



October 16, 2006

Mr. Girish Desai
NYS Department of Environmental Conservation
SUNY – Building 40
Stony Brook, NY

**Subject: Final Remedial Action Report
Former Watchcase Factory Site
Sag Harbor, New York
Site No. 1-52-139**

Dear Mr. Desai:

Enclosed please find the Final Remedial Action Report for the above-referenced Site. It has been revised to reflect the comments received from the Department on an earlier version dated November 18, 2004.

Page 20 of the Final Remedial Action Report contains a certification by a professional engineer that the Remedial Design was implemented, and all construction activities were completed, in accordance with the following plans: Interim Remedial Measure (IRM) Work Plan (dated February 24, 1994); Excavation, Shoring and Disposal Plan (dated October 18, 2001); and Remedial Action Plan (dated December 5, 2001).

The certification fulfills the requirements of Paragraph V.D. of the Order on Consent, Index # W1-0674-94-01 (Site Code # 1-52-139), with respect to the on-site remediation. Further, as discussed in the Final Remedial Action Report, the results of the recent soil vapor investigation demonstrate that no off-site remedial action is required.

Accordingly, Bulova respectfully requests that the Department approve the certification under Paragraph XVII. of the Order on Consent.

If you have any questions, please do not hesitate to call. Otherwise, we look forward to the Department's expeditious review and approval of the Final Remedial Action Report and the certification of completion of the remedial action.

Sincerely,

A handwritten signature in black ink, appearing to read "Erik Gustafson", written in a cursive style.

Erik Gustafson



**FINAL REMEDIAL ACTION REPORT
FORMER WATCHCASE FACTORY SITE**

**BULOVA CORPORATION
SAG HARBOR, NEW YORK**

**SITE No. 1-52-139
CONSENT ORDER No. W1-0674-94-01**

October 16, 2006

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Erik Gustafson
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1.0 INTRODUCTION & SUMMARY

The former Bulova Watch Case Factory site (the Site) is located in the Village of Sag Harbor, Town of Southampton, Suffolk County, New York (Figure 1). Division Street borders the Site to the east, Washington Street to the north, Church Street to the west, and Sage Street to the south. The Site encompasses approximately 2.3 acres and contains one building. The building is a vacant one to four story structure constructed with brick and timber. The building is irregular in shape and contains several courtyards, including the interior courtyard located in the central portion of the buildings (Figure 2). The New York State Department of Environmental Conservation (NYSDEC) characterized the Site as a Class 2 Inactive Hazardous Waste Site in January 1993.

Between 1993 and 1998, soil and groundwater remedial activities were conducted at the Site. These remedial activities included the closure of sumps and drywells in 1993, construction and startup of two air sparge/soil vapor extraction (AS/SVE) systems and excavation of dry well SU-8 in 1994, and removal of surface soils (top 2-feet) within the interior courtyard in 1996. In March 1999, the two AS/SVE systems were deactivated with the concurrence of the NYSDEC.

In 1999, volatile organic compounds (VOCs) were identified in soil gas near the western portion of the interior courtyard. An investigation program entitled *Interior Courtyard Confirmatory Soil Boring Assessment* was prepared and implemented. Findings of the investigation determined an area of the interior courtyard, outside the radius of influence of the original AS/SVE systems, as having high levels of VOCs in soil and groundwater. In addition, it was determined that VOC soil impacts were present in both shallow-depth soils (2'-6' bgs) and deeper-depth soils (8'-14' bgs).

Two supplemental remedial actions were implemented to address the remaining VOC impacts. These actions were 1) excavation of shallow-depth VOC-impacted soils from the western portion of the interior courtyard area; and 2) reconfiguration of the existing AS/SVE system in the interior courtyard to address the presence of VOCs in the lower-depth soils and groundwater. The combination of these remedial actions achieved significant and permanent VOC reductions in the subsurface.

Excavation of shallow-depth VOC impacted soils was completed in October and November 2001, and the endpoint soil samples were all below the NYSDEC Recommended Soil Cleanup Objectives presented in TAGM #4046 (January 24, 1994). Thus, this source control measure has effectively remediated the soil contamination in the shallow zone.

The reconfigured AS/SVE system began operating on March 1, 2002, and over the next 25 months cycled through four major periods of operation and controlled shutdown. VOC concentrations in the groundwater have decreased dramatically during that period, and the "rebound" effects that followed each system shutdown have greatly diminished in magnitude. Analysis of historical and current groundwater data at the Site demonstrates

that operation of the AS/SVE system has reduced VOC concentrations to asymptotic levels in groundwater.

In addition, calculations of mass removal rates, as well as low concentrations of VOCs in SVE system components, confirm that only residual VOCs remain in the deeper soil and groundwater, and that continued operation of the AS/SVE system would be ineffective. Thus, the reconfigured AS/SVE system has effectively remediated the deeper soil and the groundwater at the Site.

The source control (removal) measure, in combination with the subsequent operation of the reconfigured AS/SVE system, has achieved significant and permanent reductions in the VOC concentrations in the shallow soil, the deep soil, and the groundwater at the Site. Because those remedial activities have reached their technological limits, and because there are no other cost-effective actions available to achieve further, significant reductions in VOC concentrations in any of the environmental media, the remediation at the Site has been completed.

The offsite soil gas investigation, which commenced in October 2005 and was completed in July 2006, included the delineation of soil gas at locations surrounding the Site, as well as the completion of soil vapor intrusion (SVI) studies at five (5) adjacent offsite structures. Based on the results of the soil gas investigation and the SVIs, there are no issues relating to offsite vapor intrusion. Thus, no offsite remediation is necessary.

2.0 INVESTIGATION AND REMEDIATION HISTORY

2.1 Historical Investigation and Remediation

In 1993, cleanup activities were initiated at the Site with the closure of sumps and dry wells. In 1994, additional cleanup action was implemented under an Interim Remedial Measure (IRM) that utilized a combination of air sparging and soil vapor extraction to remove residual VOCs from the soil and groundwater.

Dry well SU-8 was a catch basin located in the interior courtyard adjacent to monitoring well MW-11R. The catch basin was constructed with concrete block and mortar and received stormwater that accumulated in the western section of the interior courtyard. In April 1994, the catch basin structure as well as soils surrounding and beneath the structure were removed. The final dimensions of the excavation measured approximately 6 by 8 feet, with an average depth of 4.5 feet. Excavation walls could not be maintained; consequently, some residual soil impacts remained.

A Remedial Investigation report was submitted in August 1996 that detailed the nature and extent of contamination at the Site, including a Risk Assessment of potential health impacts. These studies and cleanup activities formed the basis for the Record of Decision (ROD) issued for the Site by the NYSDEC in December 1996. The ROD stated the following: "The IRM has proven to be effective in reducing VOC concentrations in site groundwater and soil. From the time of the system start-up through March 1996, the overall concentrations of VOCs in the site groundwater have decreased significantly."

As part of the IRM, the surface soils across one-third of the interior courtyard were removed, and the entire courtyard was covered with 12 inches of clean soil. The ROD concluded as follows with respect to this source control activity: "As a result of this action, metals concentrations in surficial soils of the Interior Courtyard are now below soil cleanup guidelines."

Based upon these results, the NYSDEC selected No Further Action in the ROD for the Site. As part of the final remedy, the ROD required continued operation of the AS/SVE systems until groundwater quality standards are achieved "or it is determined that it is not practical or feasible to remove additional VOCs from the soil and groundwater." The New York State Department of Health (NYSDOH) concurred that this remedy is protective of human health.

In March 1999, the NYSDEC approved a request that allowed for the shutdown of the AS/SVE systems, stating: "After careful consideration of many factors, including the post shut-down groundwater monitoring analytical data, system performance data, and subsurface soil analytical data, it is acceptable to permanently shutdown and dismantle the SVE/Air Sparging system at the above referenced site. The system has substantially attenuated the chlorinated solvent contamination in soil to the extent possible by this technology, and no further operation will be required or serve to be beneficial. This system may be permanently dismantled and removed from the site."

In June 1999, however, a soil gas survey revealed the presence of VOC-impacted soil gas beneath the interior courtyard area. The presence of VOC-impacted soil gas was later confirmed in a subsequent soil gas survey conducted in May 2000. Although the soil removal and continued operation of the AS/SVE systems were successful in meeting their objectives, the NYSDEC requested Bulova to initiate additional investigations and remedial measures to address soil gas concentrations.

2.2 Recent Investigation and Remediation

In 2001, a confirmatory soil boring program was completed within the interior courtyard area. Results of the investigation identified an area of the interior courtyard outside the radius of influence of the original AS/SVE systems, that had elevated levels of VOCs in soil and groundwater. Total VOC concentrations in the groundwater ranged from 332 µg/L to 7,845 µg/L and total VOC concentrations in soil ranged from non-detect to 49,450 µg/Kg. The main constituents were chlorinated solvents (e.g., 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE) and tetrachloroethene (PCE)). Soils impacted with VOCs were detected in both shallow-depth soils (2'-6' below grade surface (bgs)) and deeper-depth soils (8'-14' bgs). Results of this investigation were submitted in a report entitled *Interior Courtyard Confirmatory Soil Boring Assessment Report*, dated June 29, 2001.

Based on those results it was determined that two additional remedial actions were appropriate:

1. Excavation of VOC-impacted soils at shallow depths (2'-6' bgs) from the western portion of the interior courtyard area; and
2. Reconfiguration of the existing AS/SVE system in the interior courtyard to address the presence of VOCs in the deeper-depth soils (8'-14' bgs) and groundwater.

2.2.1 Shallow Soil Excavation/Remediation

As stated above, during the Confirmatory Soil Boring Program, VOC-impacted soils and groundwater were identified within the western portion of the interior courtyard. To achieve the goal of remediating the shallow-depth soils (2'-6' bgs), an excavation plan entitled *Excavation, Shoring and Disposal Plan* dated October 18, 2001, was prepared and later implemented in accordance with the comments previously provided by the NYSDEC in a letter dated September 4, 2001.

The *Excavation, Shoring and Disposal Plan* was implemented from October 22 through November 9, 2001. Soil was removed from the western portion of the interior courtyard with the use of a vacuum truck. A small excavator and hand digging were used to remove soils from areas where access was limited or where soils could not be vacuumed out due to their compacted nature. A total of approximately 110 cubic yards of soil was excavated. Soils were removed to a depth between 6 and 8 feet bgs to the limits identified in Figure 3.

A total of 29 soil endpoint samples were collected from the excavation. Sixteen of these were collected from the sidewalls of the excavation, at a frequency of one sample for every five linear feet. The samples were obtained along the sidewall, approximately one-third up from the bottom of the excavation. The remaining 13 endpoint soil samples (12 plus a field duplicate) were collected from the base of the excavation, at one per every 25 square feet (i.e. one per every five foot by five foot square area). This included one sample from each of the former confirmatory soil borings drilled in the interior courtyard section and described in the June 29, 2001 Interior Courtyard Confirmatory Soil Boring Assessment Report.

Laboratory analytical results of the 29 post-excavation endpoint soil samples were all either below the limits of detection or significantly below the NYSDEC Recommended Soil Cleanup Objectives presented in TAGM #4046 (January 24, 1994). A summary of the excavation endpoint sample results has been summarized in Table 1. A summary of the excavation activities and results were included in the *Remedial Action Plan*.

2.2.2 Deep Soil and Groundwater Remediation - Air Sparging/Soil Vapor Extraction

To achieve the goal of remediating the deeper soils (8'-14' bgs) and the groundwater, the existing AS/SVE system (which had operated until March 1998 as part of the IRM) was reconfigured.

Based on pilot testing completed at the Site in June 1993, a radius of influence (ROI) of 15 feet was estimated for AS wells and a ROI of 25 feet was estimated for SVE wells. Based on these ROIs, a minimum of four co-located AS/SVE wells would have been required to provide adequate coverage of the impacted area. However, in the interest of aggressively addressing this aspect of the remediation, the *Remedial Action Plan* dated December 5, 2001, included a total of six co-located AS/SVE wells, which provided increased and overlapping coverage, as well as flexibility in operation.

In January 2002, AS/SVE-1 through AS/SVE-6 were installed in accordance with the methodology described in the IRM Work Plan, and were subsequently maintained and monitored in accordance with the *Remedial Action Plan*. In addition, three more SVE wells (VE-7 through VE-9) were installed in 2003, and monitoring well MW-16 was modified into an SVE well, to enhance soil gas capturing abilities along the perimeter of the monitoring area (Figure 2).

2.2.2.1 AS/SVE System Description

The AS system consisted of six AS wells manifolded to a Roots 33-URAI sparge blower powered by a 5 HP motor. The sparge blower was skid-mounted with an inlet air filter, pressure relief valve, bypass valve, heat exchanger, temperature gauges, pressure gauges and flow meters. An air cooled heat exchanger was located between the sparge blower and the manifold to lower the temperature of the sparged air prior to it entering the PVC piping.

The SVE system consisted of ten SVE wells manifolded to a 15 HP Rotron Blower. The blower was skid-mounted with an inlet air filter, vacuum relief valve, inlet and discharge silencers, inlet vacuum and outlet pressure gauges, flow meter, high and low pressure switches, dilution air filter, moisture separator equipped with a high level switch and four vapor-phase carbon vessels to treat off gas.

2.2.2.2 AS/SVE System Operation

Initial system operations commenced on March 1, 2002. Since initial activation, the system has had four major periods of operation and controlled shut down. These are as follows:

Period 1: March 1, 2002 through July 17, 2002. The system was only shut down for a total of approximately five days during this period for the following planned sampling activities:

1. Between April 8 and 9, the AS/SVE system was shut down to allow for the installation of permanent soil gas points and the installation of monitoring well MW-22 to assist in monitoring the treatment area.
2. Additionally, the system was shut down on April 2 and on June 3 for a period of 48-hours each to allow for groundwater levels to return to static conditions prior to groundwater-sampling activities. Following collection of groundwater samples on April 4 and June 5 the system was reactivated.

On July 17, 2002, the system was temporarily deactivated with the concurrence of the NYSDEC in order to observe rebound characteristics of VOC levels in groundwater.

Period 2: November 14, 2002 through March 13, 2003. On November 14, 2002, the SVE system was restarted following the July 17, 2002, temporary shutdown; the AS system was reactivated seven days later following repair of an electrical malfunction. Soil sampling was also conducted on November 14, 2002, to evaluate the effectiveness of the AS/SVE in remediating the deep soils. The system was only shut down for a total of approximately seven days during this period, as a result of the following:

1. The system shut down for approximately five days due to an electrical malfunction (January 8 to January 13, 2003).
2. On February 11, 2003, the system was shut down for a period of 48-hours to allow for groundwater-sampling activities to occur. On February 13, 2003, the SVE system was reactivated.

The SVE system then ran uninterrupted until March 13, 2003 when the system was again temporarily deactivated with the concurrence of the NYSDEC to allow for soil gas sampling activities.

Period 3: April 22, 2003 through August 8, 2003. On April 22, 2003, the SVE system was restarted and operated continuously through August 8, 2003, with the exception of June 3 through June 5 when the SVE system was deactivated to allow for collection of

groundwater samples. During this period, the AS system was used only intermittently, operating from May 8 through May 22 and June 11 through June 17, in order to determine whether pulsing the sparge system would increase VOC removal rates. Analysis of the weekly PID readings collected from the SVE legs during this period of AS pulsing determined that pulsing of the AS system did not increase VOC removal rates. On August 8, 2003, with the concurrence of the NYSDEC, operation of the AS/SVE system was deactivated.

Period 4: March 3, 2004 through April 6, 2004. During this period, only the SVE portion of the system was operated. The purpose of this period of operation was to assist in better understanding the origin of VOCs in soil gas beneath the Site.

2.3 Soil Vapor Investigation

2.3.1 Onsite Soil Gas

As a result of the May 2000 and October 11, 2001 confirmatory soil gas sampling events, the monitoring of soil gas was initiated in and around the inner courtyard. In August 2001, soil gas implants were installed at 4' and 8' bgs intervals at soil gas points SGP-1 through 10, 13, 14 and 17. Soil gas implants were also installed at SGP-15, which replaced former soil gas points SGP-11 and 12. The location of these sampling points (as well as others installed at later dates) has been identified on Figure 2.

Soil gas samples were then collected from these implants on August 9, 2002, November 14, 2002 and March 27, 2003. In August 2003, soil gas point SGP-17 was destroyed during unrelated soil excavation activities. Additional soil gas sampling events occurred on August 28, 2003, November 4, 2003, March 3, 2004, April 20, 2004, June 16, 2004 and June 13, 2005.

In May 2005, soil gas points SGP-18 through 25 were completed using a Geoprobe® to determine the soil gas concentrations at the northern and eastern Site boundaries and in the southern courtyard. Soil gas samples were collected at 4' and 8' bgs intervals. Analysis of these samples identified high VOC concentrations in the southern courtyard (SGP-24), and slightly elevated levels at the north-northwestern property boundary (SGP-18 and 19).

As a result of the elevated levels of soil gas identified in the southern courtyard, the soil gas investigation was expanded to determine the soil gas concentrations at the southeastern, southern, southwestern and western property boundaries. In July 2005, soil gas points SGP-26 through 29 were completed and SGP-24 was resampled using a Geoprobe®. Soil gas samples were collected at 4' and 8' bgs intervals. Analysis of the samples confirmed the high VOC concentrations at SGP-24 and identified moderately elevated levels at the southeastern (SGP-29), southern (SGP-28), southwestern (SGP-27) and western (SGP-26) property boundaries. Additionally, a soil sample was collected at SGP-24 to determine if the soil gas was a result of soil gas migration or due to a soil impacts. Analytical results for this soil sample was either non-detect or well below the

NYSDEC TAGM 4046 levels; therefore, the presence of the soil gas in the southern courtyard is believed to be a result of migration from the former source area. Analytical results for this soil sample have been included as Table 3.

In October 2005, soil gas points SGP-36 and 37 were completed near the southeastern and eastern property boundaries to better determine the extent and concentration in these areas. Soil gas samples were collected at 4' and 8' bgs intervals. Analysis of samples from SGP-38 confirmed the slightly elevated levels at the southeastern property boundary, while analysis of samples from SGP-39 determined that only the deeper soil gas (8' bgs interval) contained slightly elevated levels.

A summary of all onsite soil gas data is presented in Table 7A.

2.3.2 Offsite Soil Gas

Starting in October 2005, the soil gas investigation was extended offsite. Soil gas samples SGP-30 through 35 were completed using a Geoprobe®. SGP-30 was completed to investigate to the north, SGP-31 and SGP-32 to the west, SGP-33 and SGP-34 to the southwest, and SGP-35 to the south. Analysis of SGP-30 through 32 identified slightly elevated levels of TCE; however, during analysis of soil gas samples collected from SGP-33 through 35, a compound unrelated to the Site, 2,2,4-trimethylbenzene, was identified at very high concentrations. The very high concentrations of 2,2,4-trimethylbenzene caused interferences, which resulted in very high reporting limits for the compounds of concern, thereby making the data unusable.

In January 2006, soil gas points SGP-33 through 35 were resampled, and soil gas points SGP-38 through 40 were completed. To eliminate the concern of interferences, analysis only included TCE, PCE and TCA. Soil gas point SGP-38 (4' and 8' bgs intervals) was completed to investigate soil gas to the west, and SGP-39 and 40 (8' bgs interval only) were completed to investigate the soil gas to the east. Based on the analytical results, the delineation of soil gas to the east, south and west was completed. A summary of the January 2006 soil gas activities and results were submitted to the NYSDEC in a submittal entitled *Soil Gas Survey* dated February 6, 2006.

In February 2006, soil gas point SGP-41 was completed to the north-northwest. The purpose of this sample was to determine if soil gas migrated to the north-northwest, between SGP-30 and SGP-31. Soil gas was collected from 4' and 8' bgs intervals and analyzed for TCE, PCE and TCA. Analysis of the samples identified slightly elevated levels of PCE only. A summary of the February 2006 soil gas activities and results were submitted to the NYSDEC in a submittal entitled *SGP-41 Soil Gas Results* dated March 14, 2006.

In July 2006, soil gas points SGP-42 through 45 were completed to the southwest. The purpose of this sampling event was to determine the extent of any soil gas migration to the southwest of the Site, as well as to characterize soil gas near the structures west and south of Residence #2. Soil gas was collected from 4' and 8' bgs intervals and analyzed for TCE, PCE and TCA. The analytical results show that the delineation of soil gas to

the southwest has been completed. In addition, the soil gas concentrations identified near the structures west and south of Residence #2 are negligible and do not pose any health or environmental concerns. The laboratory analytical report for the July 2006 soil gas samples has been included as Appendix D.

A summary of all offsite soil gas data is presented in Table 7B.

2.3.3 Soil Vapor Intrusion (SVI) Studies

Based on the results of the offsite soil gas sampling events, it was determined that soil gas had migrated offsite to the north-northwest, southeast and southwest. As a result, seven (7) offsite structures were identified for precautionary soil vapor intrusion (SVI) sampling activities. Of these seven structures, four (4) were commercial structures and three (3) were residential structures. The locations of these structures are identified as Businesses #1, #2, #4 and #5, and Residences #1 through #3 on Figure 4. (After contacting the owner of Business #3, it was determined that the structure was misidentified, and was instead a residence; therefore, the structure was redesignated as Residence #3.)

The owners of Residences #2 and #3 declined to grant access for sampling; therefore, SVI sampling activities occurred only at Residence #1 and Businesses #1, #2, #4 and #5.

For Residence #1, a total of four (4) samples were collected, including a sub-slab vapor sample, a crawl-space/basement air sample, an indoor air sample collected from the main floor (i.e. 1st floor) and an outdoor air sample. Each of the samples was collected in accordance with the methodology described in the NYSDEC-approved January 9, 2006 Soil Vapor Study scope of work, and was analyzed for TCE, PCE and TCA. Laboratory analysis of the samples were all either non-detect or fell under No Further Action (NFA) when compared to Matrix #1 for TCE and Matrix #2 for PCE and TCA.

For Business #1, a total of three (3) samples were collected, including a basement indoor air sample, an indoor air sample collected from the main floor and an outdoor air sample. No slab was present in the basement (i.e. dirt floor); therefore, sub-slab sampling was not applicable for this structure. Each of the samples was collected in accordance with the methodology described in the NYSDEC-approved January 9, 2006 Soil Vapor Study scope of work. Laboratory analysis of the samples were all either non-detect or fell under No Further Action (NFA) when compared to Matrix #1 for TCE and Matrix #2 for PCE and TCA.

For Business #2, a total of three (3) samples were collected, including a sub-slab vapor sample, an indoor air sample collected from the main floor and an outdoor air sample. Each of the samples was collected in accordance with the methodology described in the NYSDEC-approved January 9, 2006 Soil Vapor Study scope of work, and was analyzed for TCE, PCE and TCA. Laboratory analysis of the samples were all either non-detect or fell under No Further Action (NFA) when compared to Matrix #1 for TCE and Matrix #2 for PCE and TCA.

For Business #4, a total of three (3) samples were collected, including a crawl-space air sample, and indoor air sample collected from the main floor and an outdoor air sample. Each of the samples was collected in accordance with the methodology described in the NYSDEC-approved January 9, 2006 Soil Vapor Study scope of work, and was analyzed for TCE, PCE and TCA. Laboratory analysis of the samples were all either non-detect or fell under No Further Action (NFA) when compared to Matrix #1 for TCE and Matrix #2 for PCE and TCA.

For Business #5, a total of four (4) samples were collected, including a sub-slab vapor sample, a basement indoor air sample, an indoor air sample collected from the main floor and an outdoor air sample. Each of the samples was collected in accordance with the methodology described in the NYSDEC-approved January 9, 2006 Soil Vapor Study scope of work, and was analyzed for TCE, PCE and TCA. Laboratory analysis of the samples were all either non-detect or fell under No Further Action (NFA) when compared to Matrix #1 for TCE and Matrix #2 for PCE and TCA.

A summary of SVI analytical data is presented in Table 7C. The laboratory analytical reports for Residence #1 and Businesses #1, #2, #4 and #5 have been included as Appendix E, F, G, H and I, respectively.

2.4 Offsite Groundwater Investigation

On September 5 and 6, 2006, Shaw collected groundwater samples downgradient of the Site. The purpose of this off-site groundwater sampling was to confirm that groundwater impacts had not migrated off-site since the Remedial Investigation completed in August 1996.

Groundwater samples were collect at GP-1 through GP-3 at the following intervals:

- Water table;
- Ten (10) feet below water table;
- Twenty (20) feet below water table; and
- Forty (40) feet below water table.

To collect the groundwater samples, a Geoprobe® drove down a groundwater sampler to the maximum depth required (i.e., 40-feet below water table interval). A minimum of three (3) well volumes was purged and a sample collected. The groundwater sampler was then raised to the next higher interval (i.e., 20-feet below water table interval), a minimum of three well volumes purged, and the sample collected. The processed was then repeated two more times to collect the remaining groundwater samples. For each sample, new polyethylene tubing was used to purge and sample to eliminate cross contamination, and the Geoprobe® rods and groundwater sampler were decontaminated between each boring location.

Following collection, the samples were properly labeled, stored on ice, and shipped to Chemtech of Mountainside, NJ following proper chain-of-custody procedures. The samples were later analyzed for VOCs in accordance with EPA Method 95.1.

Within borings GP-1 and GP-3, laboratory analysis did not detect any VOC analyte at or above the NYSDEC Class GA groundwater standards in any of the samples collected.

Within boring GP-2, only one groundwater interval (30' -32' bgs, equivalent to the 20' below water table interval) contained any VOCs above the NYSDEC Class GA groundwater standards (TCE at 5.3 µg/L and vinyl chloride at 6.5 µg/L). The remaining three intervals (water table, and 10' and 40' below water table intervals) did not contain any VOC analyte at or above the NYSDEC Class GA groundwater standards.

A summary of the offsite groundwater analytical results is presented in Table 4B. The laboratory analytical report is included as Appendix J.

3.0 RESULTS

The following summarizes the source control (removal) measure and the operation of the reconfigured AS/SVE system. In short, these remedial measures accomplished their objective of significantly reducing the VOC concentrations within the shallow and deep soils, and the groundwater, to the point where further operation of the AS/SVE system will not achieve any significant additional remediation or cost-effective gains.

3.1 Shallow-Depth Soil Remediation

To address the VOC impacts in the shallow-depth soils (2'-6' bgs), the western portion of the interior courtyard was excavated to a depth ranging from 6.5 feet to 8.5 feet bgs in late 2001. The program included the removal of approximately 110 cubic yards of soil, and the collection of 29 soil endpoint samples. Laboratory analyses for each of the soil endpoint samples indicated concentrations of VOCs well below the NYSDEC TAGM 4046 guidance values. The locations of the soil endpoint samples and a summary of the soil endpoint laboratory analytical results have been included as Figure 3 and Table 1, respectively. Additionally, the results of this excavation and sampling were summarized in a report entitled *Remedial Action Plan (Draft)* dated December 5, 2001.

3.2 Deeper-Depth Soil Remediation

In order to address the VOC impacts in the deeper-depth soils (8'-14' bgs), a reconfiguration of the existing AS/SVE system was completed. The system was activated on March 1, 2002 and operated periodically for the next 25 months until April 6, 2004. On November 14, 2002, soil samples were collected from former confirmatory soil boring locations CB-3 (9' bgs) and CB-8 (10'-11' bgs) (Figure 3). The purpose of these samples was to determine the effectiveness of the AS/SVE system in removing VOCs from deeper soils that were below the vertical extent of the excavation program completed in October and November 2001.

Laboratory analytical results confirmed dramatically reduced VOC concentrations within the subsurface. As shown on Table 2, soil at boring location CB-3 (9' bgs), which previously exhibited a total VOC concentration of 2,635.5 µg/Kg, had been remediated to a total VOC concentration of 5.8 µg/Kg. Likewise, soil at boring location CB-8 (10'-11' bgs), which previously contained a total VOC concentration of 1,335.4 µg/Kg, had been remediated to a total VOC concentration of 2.7 µg/Kg. Neither sample exhibited concentrations of VOCs above any respective soil guidance value. Since neither soil sample exhibited VOC concentrations above the soil guidance values, future soil sampling was not warranted.

3.3 Groundwater Remediation

Table 4A provides a summary of the groundwater analytical results for samples collected before and during AS/SVE system operation. The most recent sampling event was conducted on April 20, 2004, two weeks after the most recent period of operation. Overall, groundwater laboratory data have shown dramatic decreases in dissolved-phase VOC concentrations throughout the Site as a result of AS/SVE operation. Compared to baseline sampling results (October 15, 2001), total VOC concentrations at monitoring

well MW-11R, located within the source area, have decreased by 94.3%. Total VOC concentrations at monitoring wells MW-12R and MW-22, located in close proximity to the source area, have decreased by 98.5% and 91.3%, respectively. Total VOC concentrations at monitoring wells MW-2 and MW-13, located along the property border, have decreased by 98.5% and 89%, respectively. As depicted in the time-series plots for monitoring wells MW-11R, MW-12R, MW-14 (destroyed in 2003), and MW-22 in Appendix A, groundwater VOC concentrations have generally reached asymptotic levels. Monitoring wells MW-2, MW-3 and MW-14 (destroyed in 2003) do not contain any VOC analyte at or above their respective NYSDEC Class GA standard.

As anticipated, rebound in groundwater VOC concentrations was observed following each shutdown of the AS/SVE system. This is best illustrated at MW-11R, which is in the former TCE source area and has historically exhibited the highest groundwater TCE concentrations at the Site. TCE concentrations at MW-11R have rebounded during each of the AS/SVE shut down events, but the rate and magnitude of each rebound have diminished with each event.

1. During the first system deactivation period (July 2002 to November 2002), TCE concentrations rebounded at an average rate of 3 µg/L per day, reaching 250 µg/L or approximately 20% of the baseline TCE concentration in a period of approximately 80 days following system deactivation (October 7, 2002).
2. During the second system shutdown period (March 2003 to April 2003), the system was deactivated with the concurrence of the NYSDEC to allow for soil gas collection. Due to the short deactivation period (39 days), only one sampling event was completed, and therefore a rebounding rate cannot be determined.
3. During the third system shutdown period (August 2003 to March 2004), TCE concentrations rebounded at an average rate of 0.66 µg/L/day, reaching 65 µg/L or approximately 5% of baseline TCE concentrations in a period of 88 days following system shutdown (November 4, 2003).
4. During the most recent system shutdown period (starting in April 2004), TCE concentrations rebounded at an average rate of 0.5 µg/L/day, reaching 49 µg/L or approximately 4% of baseline TCE concentrations in a period of 57 days following system shutdown (June 16, 2004). On June 1, 2005, approximately 14 months following shutdown, TCE concentrations remained low at 87 µg/L, or approximately 6.7% of baseline TCE concentrations.

The dramatically decreased and stable rebound rate for TCE clearly shows depletion of TCE mass in the saturated zone as a result of air sparging. The 93.3% reduction in TCE concentrations at MW-11R indicates that a vast majority of the TCE mass has been removed from the saturated zone, and that a residual source of TCE no longer exists.

Additionally, similar patterns were observed for 1,1,1-TCA and cis-1,2-DCE. 1,1,1-TCA concentrations at MW-11R rebounded at an average rate of 2.75 µg/L per day in Period 1 reaching 220 µg/L; 0.25 µg/L per day in Period 2 reaching 23 µg/L; and 0.32 µg/L per day in Period 3 reaching 22 µg/L. On June 1, 2005, approximately 14 months following shutdown, 1,1,1-TCA concentrations have remained low at 27 µg/L. Cis-1,2-DCE

concentrations at MW-11R rebounded at an average rate of 0.44 µg/L per day in Period 1 reaching 35 µg/L; 0.12 µg/L per day in Period 2 reaching 13 µg/L, and 0.32 µg/L per day in Period 3 reaching 27 µg/L. On June 1, 2005, approximately 14 months following shutdown, cis-1,2-DCE concentrations continued to decrease to 16 µg/L.

These results demonstrate that the AS/SVE system has effectively remediated the groundwater contamination at the site.

3.4 AS/SVE Mass Removal

As presented in Table 5, the AS/SVE system has removed an estimated total of approximately 46 pounds of VOCs from the subsurface. However, over 80% of this VOC mass (approximately 37 pounds) was removed during the first 34 days of system operation. During the remaining 351 days of system operation, an estimated total of 8.4 pounds of VOCs was removed. This equates to a removal rate of approximately 0.7 pounds per month.

Photo-ionization detector (PID) readings collected during the 11 weeks of system operation leading up to the August 8, 2003, shutdown and during the final five weeks of system operation completed from March 3 through April 6, 2004, are summarized in Table 6. PID readings collected from the soil vapor extraction legs (VE-1 through VE-9, and MW-16) were low, with most readings below instrument detection levels. The absence of elevated PID readings further supports that the AS/SVE system has reached its maximum effectiveness.

The low VOC removal rates and PID readings support the groundwater and soil analytical results, which demonstrate that a significant quantity of VOC mass has been removed, and that the mass of VOCs remaining is minimal. Thus, no additional significant remediation will be accomplished by the continued operation of the AS/SVE system.

3.5 Soil Gas

3.5.1 Onsite Soil Gas

A summary of all historical onsite soil gas results are presented as Table 7A. Those data show that during periods of system operation, soil gas concentrations decrease throughout the entire Site; however, during periods of system deactivation soil gas concentrations have increased.

As previously discussed, soil sampling and SVE system PID readings demonstrate that a soil source area is no longer present.

To confirm that conclusion, and to evaluate the extent to which soil gas VOCs may be originating from residual VOC concentrations in groundwater (as opposed to any VOC "hot spots" (i.e. source areas)), soil vapor and groundwater VOC concentrations measured in field samples were evaluated using Henry's Law equilibrium partitioning. Theoretically, if the source of soil gas VOCs is dissolved concentrations in groundwater,

and if VOC partitioning obeys Henry's Law, then actual soil gas VOC concentrations immediately above the water table should approximate the vapor concentrations predicted by Henry's Law for a given groundwater VOC concentration. Soil vapor VOC concentrations orders of magnitude greater than the Henry's Law equilibrium prediction would indicate a source of VOCs in the soils above the water table.

Groundwater and soil vapor samples were collected on November 4, 2003, and June 16, 2004, under static conditions (i.e., AS/SVE system was off for at least 70 days). Groundwater and soil vapor VOC concentrations of TCE, cis-1,2-dichloroethene (cis-1,2-DCE), 1,1,1-trichloroethane (1,1,1-TCA), and 1,1-dichloroethane (1,1-DCA) were measured on these dates. The soil vapor and groundwater data from sampling locations within approximately 20 lateral feet of each other (e.g., MW-11R and SGP-14) were compared and subsequently evaluated against the soil vapor concentration:groundwater concentration ratio predicted by Henry's Law. Soil vapor samples were collected at depths of 4 ft. and 8 ft. bgs to determine the relationship between deep soil gas and shallow soil gas. The water table is approximately 10 feet bgs.

Figures in Appendix B compare the soil gas vapor concentration predicted by the Henry's Law equilibrium relationship for cis-1,2-DCE, TCE, 1,1,1-TCA, and 1,1-DCA (dashed lines) to the November 4, 2003, site data (4' and 8' bgs soil gas data). Each data point correlates the results from a specific groundwater monitoring well to the corresponding results from adjacent (within 20 feet, laterally) soil vapor sampling points. Figures in Appendix C show the same comparisons for cis-1,2-DCE, TCE, and 1,1,1-TCA for the June 16, 2004 site data.

Appendices B and C show that deep soil vapor VOC concentrations are very close to or below the concentrations predicted by Henry's Law, indicating that soil vapor VOC concentrations are likely controlled by groundwater concentrations, and not a source above groundwater. Although there are a limited number of Site data points that are slightly above the predicted Henry's equilibrium line, they are very small in magnitude and likely the result of one or more of the following:

- Horizontal and vertical heterogeneity in groundwater contaminant distribution. The actual dissolved contaminant concentrations at the surface of the water table may actually be slightly higher than the groundwater concentration measured, resulting in a potential underprediction of the Henry's Law equilibrium line in the figures presented in Appendices B and C;
- Precision and accuracy of groundwater sampling. The difference between the theoretical (using Henry's Law) and measured groundwater concentrations lying above this theoretical value are generally within about 20%, which is well within the typical range of precision and accuracy of groundwater sampling; and
- Horizontal migration of VOCs in the unsaturated zone. VOCs in soil gas will migrate via diffusion from areas of high concentration to low concentration.

Shaw therefore concludes that the increases in soil gas concentrations following AS/SVE system shut-downs are most likely the result of residual VOC groundwater impacts partitioning from the aqueous phase into the vadose zone, and that source area soils (i.e., grossly impacted soils) are no longer present, although residual soil impacts may remain. Thus, additional efforts to remediate the unsaturated soils are unwarranted.

The remaining soil gas will be properly managed through a Site Management Plan (SMP) and an Operation, Maintenance & Monitoring (OM&M) Plan to protect the future occupants of the Site.

3.5.2 Offsite Soil Gas and Soil Vapor Intrusion (SVI) Studies

A summary of all offsite soil gas results is presented as Table 7B, and a summary of the SVI sampling results is presented in Table 7C. Based on the results of the soil gas investigation, the extent of the VOC-containing soil gas has been delineated. It was determined that soil gas may have migrated off the Site towards the southeast, southwest and north-northwest.

Southeast: To address concerns that any migrating soil gas may pose a health concern to the occupants of the offsite structures located to the southeast, SVI sampling activities were proposed at Residence #1 and Business #2. After access was granted, sampling activities were completed at each structure in accordance with the NYSDEC-approved January 9, 2006 work plan. In each case analytical data confirmed that there are no issues associated with vapor intrusion at these offsite structures.

Southwest: To address concerns that any migrating soil gas may pose a health concern to the occupants of the offsite structures located to the southwest, precautionary SVI sampling activities were proposed at Residences #2 and #3 and Business #4. After access was granted for Business #4, the structure was sampled as per the NYSDEC-approved January 9, 2006 work plan. Analytical results confirmed that there is no issue associated with vapor intrusion at Business #4.

The owners of Residences #2 and #3 declined to grant access for the sampling. However, based on the sampling results at Business #4, vapor intrusion does not appear to be an issue at those offsite structures. In addition, the analysis of soil gas samples SGP-42 through 45 determined that there are no elevated levels of soil gas near the structures to the south and west of Residence #2.

North-northwest: To address concerns that any migrating soil gas may pose a health concern to the occupants of the offsite structures located to the north-northwest, precautionary SVI sampling activities were proposed for Businesses #1 and #5. After access was granted, sampling activities were completed at each structure in accordance with the NYSDEC-approved January 9, 2006 work plan. In each case, analytical data confirmed that there are no issues associated with vapor intrusion at these offsite structures.

3.6 Offsite Groundwater Investigation

Results of the offsite investigation identified TCE and vinyl chloride groundwater concentrations marginally exceeding the NYSDEC Class GA standards in one sample (GP-2 (30' -32' bgs)) only. None of the remaining 11 groundwater samples exhibited any VOC analyte at or above the Class GA standard.

Although some marginal groundwater impacts were identified downgradient of the Site, a well survey previously completed determined that there are no public or private potable wells located downgradient of the Site. Additionally, the Village of Sag Harbor has passed an ordinance prohibiting the installation of new private wells. Accordingly, the marginal groundwater impacts identified downgradient of the Site do not pose a public health or environmental concern.

3.7 Data Validation

Data validation was performed by Mr. Donald M. Mill of Shaw Environmental, Inc. for the following analytical reports:

- July 2006 Soil Gas Analytical Report (Appendix D);
- Residence #1 Soil Vapor Intrusion Analytical Report (Appendix E);
- Business #1 Soil Vapor Intrusion Analytical Report (Appendix F);
- Business #2 Soil Vapor Intrusion Analytical Report (Appendix G);
- Business #4 Soil Vapor Intrusion Analytical Report (Appendix H);
- Business #5 Soil Vapor Intrusion Analytical Report (Appendix I); and
- Offsite Groundwater Analytical Report (Appendix J).

All data validation was performed using guidance from the NYSDEC QA Guideline for the Development of Data Usability Summary Reports (DUSR), Appendix 2A and 2B of the Draft Technical Guidance for Site Investigation and Remediation. Data was reviewed for completeness, holding times, QC specifications, established protocols, raw data evaluation and qualifiers.

The analytical data obtained was found to be valid and useable, with only a few minor deficiencies present. These minor deficiencies are discussed in the DUSR.

The DUSR as well as Mr. Mill's resume have been included as Appendix K.

4.0 CONCLUSIONS

In 2001 the presence of residual VOC-impacted soils and groundwater was identified within the western portion of the interior courtyard. To address the remaining VOCs, two supplemental remedial actions were implemented. These actions included 1) the excavation of shallow-depth VOC-impacted soils, and 2) the reconfiguration of the existing AS/SVE system to address deep zone VOC-impacted soils and groundwater. The combination of these remedial actions achieved significant and permanent VOC reductions in the shallow and deep zone soils and groundwater.

During October and November 2001, the excavation of shallow zone VOC impacted soils was successfully completed. This success was documented through laboratory analysis of the endpoint soil samples, which did not detect any VOC concentration at or above the NYSDEC cleanup objectives. Thus, this source control measure effectively remediated the soil contamination in the shallow zone.

From March 1, 2001, through April 6, 2004, the reconfigured AS/SVE system cycled through four major periods of operation and controlled shutdowns. During this time, VOC concentrations in the groundwater decreased dramatically. Also, following each of the controlled system shutdown events, the “rebound” effect greatly diminished in magnitude as well. The groundwater VOC concentrations are now at asymptotic levels.

Additionally, examination of the current mass removal rates, as well as the low to non-detectable concentrations of VOCs in SVE system components, confirm that operation of the AS/SVE is now only marginally effective in removing residual VOCs from the deep zone soil and groundwater. This demonstrates that there is no significant residual source of VOCs in the vadose zone, and that the reconfigured AS/SVE system has effectively remediated the deeper soil and the groundwater at the Site.

The excavation activity, in combination with the subsequent operation of the reconfigured AS/SVE system, has achieved significant and permanent reductions in the VOC concentrations in the shallow soil, the deep soil, and the groundwater at the Site. Since those remedial activities have achieved their goal, and have reached their technological limits, and because there are no other cost-effective actions available to achieve further, marginal reductions in VOC concentrations in any of the environmental media, the remediation at the Site has been completed.

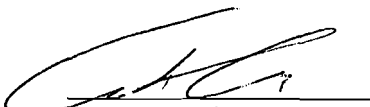
From October 2005 to July 2006, an investigation to determine the extent of potential soil gas migration was completed. Based on the analytical results from 14 sampling points that surround the Site in all directions, it was determined that the extent of any offsite soil gas migration is limited. Further, soil vapor intrusion investigations at five (5) adjacent offsite structures, including both commercial and residential structures, confirmed that vapor intrusion is not a concern, with the possible exception of the property located nearest to SGP-34 (R2), which may be sampled in the future.

In September 2006, an offsite groundwater investigation identified only limited, marginal groundwater impacts above the NYSDEC Class GA groundwater standards. However, a previous well survey determined that there are no public or private wells located downgradient of the Site. Additionally, the Village of Sag Harbor has passed an ordinance prohibiting the installation of new private wells. Accordingly, the marginal groundwater impacts identified downgradient of the Site do not pose a public health or environmental concern.

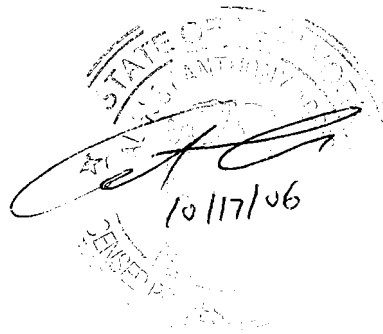
5.0 CERTIFICATION

In accordance with Paragraph V.D. of the Order on Consent, Index # W1-0674-94-01 (Site Code # 1-52-139), I hereby certify that the Remedial Design was implemented, and all construction activities were completed, in accordance with the following plans: Interim Remedial Measure (IRM) Work Plan (dated February 24, 1994); Excavation, Shoring and Disposal Plan (dated October 18, 2001); and Remedial Action Plan (dated December 5, 2001).

Shaw Environmental & Infrastructure, Inc.



August Arrigo, PE



TABLES

TABLE 1
POST EXCAVATION SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS
OCTOBER/NOVEMBER 2001

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Sample ID PID Screening Result (ppm) Compound	PESS-01 0.0	PESS-02 10.5	PESS-03 1.2	PESS-04 0.7	PESS-05 6.5	PESS-06 0.0	PESS-07 5.9	RSCO *
Chloromethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
Bromomethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
Vinyl Chloride	13 U	13 U	13 U	12 U	12 U	12 U	11 U	200
Chloroethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	1,900
Methylene Chloride	13 U	13 U	13 U	12 U	12 U	12 U	11 U	100.0
Acetone	13 U	13 U	13 U	12 U	12 U	12 U	11 U	200
Carbon Disulfide	13 U	13 U	13 U	12 U	12 U	12 U	11 U	2,700
1,1-Dichloroethene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	400
1,1-Dichloroethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	200
trans-1,2-Dichloroethene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	550
cis-1,2-Dichloroethene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	550
Chloroform	13 U	13 U	13 U	12 U	12 U	12 U	11 U	300
1,2-Dichloroethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	100
2-Butanone	13 U	13 U	13 U	12 U	12 U	12 U	11 U	300
1,1,1-Trichloroethane	5.4 J	6 J	3.1 J	4.9 J	4.9 J	5.2 J	20	800
Carbon Tetrachloride	13 U	13 U	13 U	12 U	12 U	12 U	11 U	600
Bromodichloromethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
1,2-Dichloropropane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
cis-1,3-Dichloropropene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
Trichloroethene	48	41	27	120	18	41	58	700
Dibromochloromethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
1,1,2-Trichloroethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
Benzene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	60
trans-1,3-Dichloropropene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
Bromoform	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
4-Methyl-2-Pentanone	13 U	13 U	13 U	12 U	12 U	12 U	11 U	1,000
2-Hexanone	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
Tetrachloroethene	13 U	13 U	13 U	12 U	12 U	2.2 J	2.6 J	1,400
1,1,2,2-Tetrachloroethane	13 U	13 U	13 U	12 U	12 U	12 U	11 U	600
Toluene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	1,500
Chlorobenzene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	1,700
Ethylbenzene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	5,500
Styrene	13 U	13 U	13 U	12 U	12 U	12 U	11 U	N/A
m/p-Xylenes	13 U	13 U	13 U	12 U	12 U	2.2 J	11 U	1,200
o-Xylenes	13 U	13 U	13 U	12 U	12 U	12 U	11 U	1,200

Notes:

All results expressed in ug/Kg (micrograms per kilogram, equivalent to parts per billion).
Standard Organic Data Qualifiers have been used.

* New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Cleanup Objective (RSCO), as presented in TAGM 4046 (January 24, 1994).

N/A indicates Not Applicable.

U = not detected at detection limit.

J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).

TABLE 1
POST EXCAVATION SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS
OCTOBER/NOVEMBER 2001

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Sample ID PID Screening Result (ppm) Compound	PESS-08 1.3	PESS-09 1.8	PESS-10 0.0	PESS-11 0.0	PESS-12 4.5	PESS-13 0.0	PESS-14 0.0	RSCO *
Chloromethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
Bromomethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
Vinyl Chloride	12 U	13 U	12 U	12 U	12 U	12 U	13 U	200
Chloroethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	1,900
Methylene Chloride	12 U	13 U	12 U	12 U	12 U	12 U	13 U	100
Acetone	12 U	13 U	12 U	12 U	12 U	12 U	13 U	200
Carbon Disulfide	12 U	13 U	12 U	12 U	12 U	12 U	13 U	2,700
1,1-Dichloroethene	12 U	13 U	12 U	12 U	1.4 J	1.4 J	13 U	400
1,1-Dichloroethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	200
trans-1,2-Dichloroethene	12 U	13 U	12 U	12 U	12 U	12 U	13 U	550
cis-1,2-Dichloroethene	12 U	13 U	12 U	12 U	1.7 J	12 U	13 U	550
Chloroform	12 U	13 U	12 U	12 U	12 U	12 U	13 U	300
1,2-Dichloroethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	100
2-Butanone	12 U	13 U	12 U	12 U	12 U	12 U	13 U	300
1,1,1-Trichloroethane	6.4 J	14	4.9 J	2.5 J	13	12 U	3.2 J	800
Carbon Tetrachloride	12 U	13 U	12 U	12 U	12 U	12 U	13 U	600
Bromodichloromethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
1,2-Dichloropropane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
cis-1,3-Dichloropropene	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
Trichloroethene	30	110	26	16	94	1.3 J	16	700
Dibromochloromethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
1,1,2-Trichloroethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
Benzene	12 U	13 U	12 U	12 U	12 U	12 U	13 U	60
trans-1,3-Dichloropropene	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
Bromoform	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
4-Methyl-2-Pentanone	12 U	13 U	12 U	12 U	12 U	12 U	13 U	1,000
2-Hexanone	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
Tetrachloroethene	3 J	2.5 J	12 U	12 U	2.7 J	12 U	13 U	1,400
1,1,2,2-Tetrachloroethane	12 U	13 U	12 U	12 U	12 U	12 U	13 U	600
Toluene	12 U	13 U	12 U	12 U	12 U	12 U	13 U	1,500
Chlorobenzene	12 U	13 U	12 U	12 U	12 U	12 U	13 U	1,700
Ethylbenzene	12 U	13 U	12 U	12 U	12 U	12 U	13 U	5,500
Styrene	12 U	13 U	12 U	12 U	12 U	12 U	13 U	N/A
m/p-Xylenes	12 U	13 U	12 U	12 U	12 U	12 U	13 U	1,200
o-Xylenes	12 U	13 U	12 U	12 U	12 U	12 U	13 U	1,200

Notes:

All results expressed in ug/Kg (micrograms per kilogram, equivalent to parts per billion).
Standard Organic Data Qualifiers have been used.

* New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Cleanup Objective (RSCO), as presented in TAGM 4046 (January 24, 1994).

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Sag Harbor, NY

Sample ID PID Screening Result (ppm) Compound	PESS-15 5.5	PESS-16 7.2	PESS-17 15.0	PESS-18 25.3	PESS-19 6.8	PESS-20 16.3	PESS-21 63.5	RSCO *
Chloromethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
Bromomethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
Vinyl Chloride	12 U	11 U	11 U	11 U	12 U	11 U	11 U	200
Chloroethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	1,900
Methylene Chloride	12 U	11 U	11 U	11 U	12 U	11 U	11 U	100
Acetone	12 U	11 U	11 U	11 U	12 U	11 U	11 U	200
Carbon Disulfide	12 U	11 U	11 U	11 U	12 U	11 U	11 U	2,700
1,1-Dichloroethene	12 U	11 U	3.5 J	11 U	12 U	11 U	11 U	400
1,1-Dichloroethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	200
trans-1,2-Dichloroethene	12 U	11 U	11 U	11 U	12 U	11 U	11 U	550
cis-1,2-Dichloroethene	12 U	11 U	6.7 J	11 U	27	11 U	11 U	550
Chloroform	12 U	11 U	11 U	11 U	12 U	11 U	11 U	300
1,2-Dichloroethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	100
2-Butanone	12 U	11 U	11 U	11 U	12 U	11 U	11 U	300
1,1,1-Trichloroethane	6.8 J	7.1 J	64	14	16	4.1 J	10 J	800
Carbon Tetrachloride	12 U	11 U	11 U	11 U	12 U	11 U	11 U	600
Bromodichloromethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
1,2-Dichloropropane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
cis-1,3-Dichloropropene	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
Trichloroethene	67	57	240 D	74	480 D	1.6 J	54	700
Dibromochloromethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
1,1,2-Trichloroethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
Benzene	12 U	11 U	11 U	11 U	12 U	11 U	11 U	60
trans-1,3-Dichloropropene	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
Bromoform	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
4-Methyl-2-Pentanone	12 U	11 U	11 U	11 U	12 U	11 U	11 U	1,000
2-Hexanone	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
Tetrachloroethene	1.6 J	3.5 J	18	8 J	2.2 J	11 U	9.4 J	1,400
1,1,2,2-Tetrachloroethane	12 U	11 U	11 U	11 U	12 U	11 U	11 U	600
Toluene	12 U	11 U	4.2 J	11 U	12 U	11 U	11 U	1,500
Chlorobenzene	12 U	11 U	11 U	11 U	12 U	11 U	11 U	1,700
Ethylbenzene	12 U	11 U	11 U	11 U	12 U	11 U	11 U	5,500
Styrene	12 U	11 U	11 U	11 U	12 U	11 U	11 U	N/A
m/p-Xylenes	12 U	11 U	2.1 J	11 U	12 U	11 U	11 U	1,200
o-Xylenes	12 U	11 U	1.3 J	11 U	12 U	11 U	11 U	1,200

Notes:

All results expressed in ug/Kg (micrograms per kilogram, equivalent to parts per billion).
Standard Organic Data Qualifiers have been used.

* New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Cleanup Objective (RSCO), as presented in TAGM 4046 (January 24, 1994).

N/A indicates Not Applicable.

U = not detected at detection limit.

J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).

TABLE 1
POST EXCAVATION SOIL ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS
OCTOBER/NOVEMBER 2001

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Sample ID PID Screening Result (ppm) Compound	PESS-22 26.2	PESS-23 8.4	PESS-24 2.4	PESS-25 0.0	PESS-26 5.1	PESS-27 4.8	PESS-28 0.0	RSCO *
Chloromethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
Bromomethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
Vinyl Chloride	11 U	11 U	11 U	11 U	11 U	11 U	11 U	200
Chloroethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1,900
Methylene Chloride	11 U	11 U	11 U	11 U	11 U	11 U	11 U	100
Acetone	11 U	11 U	11 U	11 U	11 U	11 U	11 U	200
Carbon Disulfide	11 U	11 U	11 U	11 U	11 U	11 U	11 U	2,700
1,1-Dichloroethene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	400
1,1-Dichloroethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	200
trans-1,2-Dichloroethene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	550
cis-1,2-Dichloroethene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	550
Chloroform	11 U	11 U	11 U	11 U	11 U	11 U	11 U	300
1,2-Dichloroethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	100
2-Butanone	11 U	11 U	11 U	11 U	11 U	11 U	11 U	300
1,1,1-Trichloroethane	4 J	2.3 J	3.1 J	11 U	11 U	11 U	11 U	800
Carbon Tetrachloride	11 U	11 U	11 U	11 U	11 U	11 U	11 U	600
Bromodichloromethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
1,2-Dichloropropane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
cis-1,3-Dichloropropene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
Trichloroethene	11 U	1.5 J	11 U	21	11 U	3.1 J	11 U	700
Dibromochloromethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
1,1,2-Trichloroethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
Benzene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	60
trans-1,3-Dichloropropene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
Bromoform	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
4-Methyl-2-Pentanone	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1,000
2-Hexanone	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
Tetrachloroethene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1,400
1,1,2,2-Tetrachloroethane	11 U	11 U	11 U	11 U	11 U	11 U	11 U	600
Toluene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1,500
Chlorobenzene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1,700
Ethylbenzene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	5,500
Styrene	11 U	11 U	11 U	11 U	11 U	11 U	11 U	N/A
m/p-Xylenes	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1,200
o-Xylenes	11 U	11 U	11 U	11 U	11 U	11 U	11 U	1,200

Notes:

All results expressed in ug/Kg (micrograms per kilogram, equivalent to parts per billion).
Standard Organic Data Qualifiers have been used.

* New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Cleanup Objective (RSCO), as presented in TAGM 4046 (January 24, 1994).

N/A indicates Not Applicable.

U = not detected at detection limit.

J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).

TABLE 2
POST SYSTEM OPERATION SOIL ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Sample ID Date COMPOUND	Recommended Soil Cleanup Objective	CB - 3		CB - 8	
		8.5 - 10' 3/20/2001 (before remediation)	9' 11/14/2002 (after remediation)	10 - 11' 3/20/2001 (before remediation)	10 - 11' 11/14/2002 (after remediation)
Chloromethane	N/A	11 U	11 U	12 U	11 U
Bromomethane	N/A	11 U	11 U	12 U	11 U
Vinyl Chloride	200	11 U	11 U	12 U	11 U
Chloroethane	1,900	11 U	11 U	12 U	11 U
Methylene Chloride	100	7.8 J	3.7 JB	9.4 J	2.7 JB
Acetone	200	15 B	11 U	12 U	11 U
Carbon Disulfide	2,700	11 U	11 U	12 U	11 U
1,1 Dichloroethene	400	11 U	11 U	12 U	11 U
1,1 Dichloroethane	200	11 U	11 U	12 U	11 U
trans-1,2-Dichloroethene	300	11 U	11 U	12 U	11 U
cis-1,2-Dichloroethene	N/A	10 J	11 U	17	11 U
Chloroform	300	11 U	11 U	12 U	11 U
1,2 Dichloroethane	100	11 U	11 U	12 U	11 U
2-Butanone	300	11 U	11 U	12 U	11 U
1,1,1 Trichloroethane	800	81	11 U	330 E	11 U
Carbon Tetrachloride	600	11 U	11 U	12 U	11 U
Bromodichloromethane	N/A	11 U	11 U	12 U	11 U
1,2-Dichloropropane	N/A	11 U	11 U	12 U	11 U
cis-1,3-Dichloropropene	N/A	11 U	11 U	12 U	11 U
Trichloroethene	700	2100 D	2.1 J	880 E	11 U
Dibromochloromethane	N/A	11 U	11 U	12 U	11 U
1,1,2-Trichloroethane	N/A	11 U	11 U	12 U	11 U
Benzene	60	11 U	11 U	12 U	11 U
trans-1,3-Dichloropropene	N/A	11 U	11 U	12 U	11 U
Bromoform	N/A	11 U	11 U	12 U	11 U
4-Methyl-2-Pentanone	1,000	11 U	11 U	12 U	11 U
2-Hexanone	N/A	11 U	11 U	12 U	11 U
Tetrachloroethene	1,400	420 JD	11 U	99	11 U
1,1,2,2-Tetrachloroethane	600	11 U	11 U	12 U	11 U
Toluene	1,500	11 U	11 U	12 U	11 U
Chlorobenzene	1,700	1.7 J	11 U	12 U	11 U
Ethylbenzene	5,500	11 U	11 U	12 U	11 U
Styrene	N/A	11 U	11 U	12 U	11 U
m/p-Xylenes	1,200	11 U	11 U	12 U	11 U
o-Xylene	1,200	11 U	11 U	12 U	11 U
Total VOCs	10000	2635.5	5.8	1335.4	2.7

Notes:

All results expressed in micrograms per kilogram (ug/Kg, equivalent to parts per billion).

Standard Organic Data Qualifiers have been used.

NS indicates no standard.

Results in **bold** typeface exceed the applicable recommended soil cleanup objective

U = not detected at detection limit.

J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).

B = Indicates analyte was found in the blank as well as the sample.

D = Results identified from diluted samples.

E = Results reported exceeded laboratory calibration range.

Methylene chloride and acetone are common laboratory contaminants.

TABLE 3
SGP-24 SOIL ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Sample ID Date COMPOUND	Recommended Soil Cleanup Objective	SGB-24 11.5'-12' 7/5/2005
Chloromethane	N/A	
Vinyl Chloride	200	
Bromomethane	N/A	
Chloroethane	1,900	
1,1 Dichloroethene	400	
Acetone	200	73 B
Carbon Disulfide	2,700	
Methylene Chloride	100	5.6 J
trans-1,2-Dichloroethene	300	
1,1 Dichloroethane	200	
2-Butanone	300	5.0 J
Carbon Tetrachloride	600	
cis-1,2-Dichloroethene	N/A	
Chloroform	300	
1,1,1 Trichloroethane	800	
Benzene	60	
1,2 Dichloroethane	100	
Trichloroethene	700	1.3 J
1,2-Dichloropropane	N/A	
Bromodichloromethane	N/A	
4-Methyl-2-Pentanone	1,000	
Toluene	1,500	
trans-1,3-Dichloropropene	N/A	
cis-1,3-Dichloropropene	N/A	
1,1,2-Trichloroethane	N/A	
2-Hexanone	N/A	
Dibromochloromethane	N/A	
Tetrachloroethene	1,400	
Chlorobenzene	1,700	
Ethylbenzene	5,500	
m/p-Xylenes	1,200	
o-Xylene	1,200	
Styrene	N/A	
Bromoform	N/A	
1,1,2,2-Tetrachloroethane	600	
Total VOCs	10000	11.9

Notes:

All results expressed in micrograms per kilogram (ug/Kg, equivalent to parts per billion).

Standard Organic Data Qualifiers have been used.

N/A indicates no guidance value.

Results in **bold** typeface exceed the applicable recommended soil cleanup objective

J = Analyte detected at concentrations below the laboratory method detection limit (estimated value).

B = Indicates analyte was found in the blank as well as the sample.

Acetone was identified in the trip blank; therefore, acetone is believed to be a contaminant and as such has not been included in the Total VOCs.

Absence of data indicates a non-detect value.

TABLE 4A
 ONSITE GROUNDWATER ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
 15 Church Street
 Sag Harbor, NY

Sample ID Date	NYSDEC Groundwater Standard	MW-2				MW-3				MW-9/9R		
		10/15/01	10/07/02	11/04/03	04/20/04	10/15/01	10/07/02	11/04/03	04/20/04	10/15/01	10/07/02	04/20/04
Chloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	10 U	10 U	2.1 J	10 U	10 U	10 U	2.8 J	10 U	10 U	10 U	10 U
Acetone	50	10 U	10 U	50 U	50 U	10 U	10 U	8.5 JB	50 U	10 U	10 U	50 U
Carbon Disulfate	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1 Dichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1 Dichloroethane	5	18	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	7.5 J	10 U
trans-1,2-Dichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	5	66	2.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	24	6.4 J
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2 Dichloroethane	5	8.9 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	50 GV	10 U	10 U	50 U	50 U	10 U	10 U	50 U	50 U	10 U	10 U	50 U
1,1,1 Trichloroethane	5	110	2.7 J	10 U	1.8 J	10 U	10 U	10 U	10 U	10 U	13	4.1 J
Carbon Tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	160	4.6 J	3.3 J	3.8 J	10 U	10 U	10 U	10 U	3.1 J	32	19
Dibromochloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	NS	10 U	10 U	50 U	50 U	10 U	10 U	50 U	50 U	10 U	10 U	50 U
2-Hexanone	50 GV	10 U	10 U	50 U	50 U	10 U	10 U	50 U	50 U	10 U	10 U	50 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
m/p-Xylenes	5**	10 U	20 U	10 U	10 U	10 U	1.2 J	10 U	10 U	10 U	20 U	10 U
o-Xylene	5**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NS	362.9	9.5	5.4	5.6	ND	1.2	2.8	ND	3.1	76.5	29.5

Notes:

All results expressed in micrograms per liter (ug/L, equivalent to parts per billion).

Standard Organic Data Qualifiers have been used.

NS indicates no standard.

GV indicates that the value listed is a Guidance Value rather than a Standard.

* Standard applies to the sum of the *cis* and *trans* isomers.

** Standard applies to the sum of the isomers.

Results in **bold** typeface exceed the applicable NYS groundwater stand/GV.

U = not detected.

J = Analyte detected at concentrations below the laboratory reporting limit (concentration estimated).

B = Indicates analyte was found in the blank as well as the sample.

D = Results identified from diluted samples.

E = Results reported exceeded laboratory calibration range.

TABLE 4A
 ONSITE GROUNDWATER ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
 15 Church Street
 Sag Harbor, NY

Sample ID Date	NYSDEC Groundwater Standard	MW-11/11R														
		10/15/01	04/04/02	06/05/02	08/09/02	10/07/02	12/18/02	02/13/03	04/03/03	06/05/03	08/28/03	11/04/03	04/20/04	06/16/04	06/01/05	
COMPOUND																
Chloromethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromomethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Vinyl Chloride	2	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chloroethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Methylene Chloride	5	10 U	10 U	10 U	1.8 JB	11 JB	10 U	10 U	10 U	1.3 JB	10 U	10 U	10 U	10 U	10 U	
Acetone	50	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	9.2 JB	50 U	10 U	6.2 JB	
Carbon Disulfate	NS	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1 Dichloroethene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1 Dichloroethane	5	7.3 J	3.6 J	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.3 J	
trans-1,2-Dichloroethene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
cis-1,2-Dichloroethene	5	94	24	10 U	5.3 J	35 J	6.6 J	5.1 J	4.9 J	2.1 J	3.5 J	13	8.5 J	27	16	
Chloroform	7	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,2 Dichloroethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Butanone	50 GV	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	50 U	50 U	
1,1,1 Trichloroethane	5	920 JD	38	10 U	12	220	12	4.5 J	10 U	1.2 J	3.4 J	23	6.8 J	22	27	
Carbon Tetrachloride	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromodichloromethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,2-Dichloropropane	1	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
cis-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethene	5	1300 D	60	6.4 J	19	250	25	9.5 J	24	7.2 J	18	65	20	49	87	
Dibromochloromethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1,2-Trichloroethane	5	1.5 J	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzene	1	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
trans-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromoform	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
4-Methyl-2-Pentanone	NS	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	50 U	50 U	
2-Hexanone	50 GV	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	50 U	50 U	
Tetrachloroethene	5	12	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.2 J	
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	10 U	100 U	0.97 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Toluene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chlorobenzene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Ethylbenzene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Styrene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
m/p-Xylenes	5**	10 U	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
o-Xylene	5**	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total VOCs	NS	2334.8	125.6	6.4	38.1	516	44.57	19.1	28.9	11.8	26.4	101	35.3	98	132.5	

Notes:

- All results expressed in micrograms per liter (ug/L, equivalent to parts per billion).
- Standard Organic Data Qualifiers have been used.
- NS indicates no standard.
- GV indicates that the value listed is a Guidance Value rather than a Standard.
- * Standard applies to the sum of the *cis* and *trans* isomers.
- ** Standard applies to the sum of the isomers.
- Results in **bold** typeface exceed the applicable NYS groundwater stand/GV.
- U = not detected at detection limit.
- J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).
- B = Indicates analyte was found in the blank as well as the sample.
- D = Results identified from diluted samples.
- E = Results reported exceeded laboratory calibration range.

TABLE 4A
 ONSITE GROUNDWATER ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
 15 Church Street
 Sag Harbor, NY

Sample ID Date	NYSDEC Groundwater Standard	MW-12/12R												
		10/15/01	04/04/02	06/05/02	08/09/02	10/07/02	12/18/02	02/13/03	04/03/03	06/05/03	08/28/03	11/04/03	04/20/04	
COMPOUND														
Chloromethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromomethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Vinyl Chloride	2	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chloroethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Methylene Chloride	5	10 U	10 U	10 U	4.1 JB	14 JB	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acetone	50	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	
Carbon Disulfate	NS	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1 Dichloroethene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1 Dichloroethane	5	20	25	10 U	1.2 J	100 U	10 U	10 U	10 U	10 U	10 U	2.9 J	10 U	
trans-1,2-Dichloroethene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
cis-1,2-Dichloroethene	5	200 D	10 U	10 U	10 U	100 U	10 U	10 U	1.1 J	10 U	5.1 J	6.2 J	10 U	
Chloroform	7	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,2 Dichloroethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Butanone	50 GV	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	
1,1,1 Trichloroethane	5	220 D	19	10 U	10 U	100 U	10 U	10 U	10 U	0.95 J	3.0 J	5.1 J	10 U	
Carbon Tetrachloride	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromodichloromethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,2-Dichloropropane	1	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
cis-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethene	5	170	28	10 U	1.9 J	12 J	4.5 J	6.2 J	12	7.6 J	11	21	9.4 J	
Dibromochloromethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1,2-Trichloroethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzene	1	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
trans-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromoform	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
4-Methyl-2-Pentanone	NS	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	
2-Hexanone	50 GV	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	
Tetrachloroethene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Toluene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chlorobenzene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Ethylbenzene	5	10 U	10 U	10 U	10 U	19 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Styrene	5	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
m/p-Xylenes	5**	10 U	10 U	10 U	10 U	89 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
o-Xylene	5**	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total VOCs	NS	610	72	ND	7.2	134	4.5	6.2	13.1	8.55	19.1	35.2	9.4	

Notes:

All results expressed in micrograms per liter (ug/L, equivalent to parts per billion).

Standard Organic Data Qualifiers have been used.

NS indicates no standard.

GV indicates that the value listed is a Guidance Value rather than a Standard.

* Standard applies to the sum of the *cis* and *trans* isomers.

** Standard applies to the sum of the isomers.

Results in **bold** typeface exceed the applicable NYS groundwater stand/GV.

U = not detected at detection limit.

J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).

B = Indicates analyte was found in the blank as well as the sample.

D = Results identified from diluted samples.

E = Results reported exceeded laboratory calibration range.

TABLE 4A
 ONSITE GROUNDWATER ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
 15 Church Street
 Sag Harbor, NY

Sample ID Date	NYSDEC Groundwater Standard	MW-13					MW-14								
		10/15/01	10/07/02	11/04/03	04/20/04	06/01/05	10/15/01	04/04/02	06/05/02	08/09/02	10/07/02	12/18/02	02/13/03	04/03/03	06/05/03
COMPOUND															
Chloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	2	31	13	39	19	3.6 J	10 U	10 U	10 U	7.6 J	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 U	10 U	10 U	0.86 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	10 U	1.2 JB	3.1 J	10 U	10 U	10 U	10 U	10 U	3.9 JB	1.2 JB	10 U	10 U	10 U	1.0 JB
Acetone	50	10 U	10 U	9.0 JB	50 U	6.4 JB	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfate	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1 Dichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1 Dichloroethane	5	2.7 J	10 U	8.0 J	10 U	4.0 J	20	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethane	5	7.7 J	2.1 J	17	3.7 J	5.4 J	250 D	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2 Dichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	50 GV	10 U	10 U	50 U	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1 Trichloroethane	5	10 U	10 U	5.9 J	10 U	10 U	240 D	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	14	4.1 J	47	14	9.2 J	170	10 U	10 U	10 U	1.0 J	10 U	1.5 J	10 U	10 U
Dibromochloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	13	10 U	5.7 J	2.3 J	3.4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	NS	10 U	10 U	50 U	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50 GV	10 U	10 U	50 U	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	200	10 U	5.8 J	4.1 J	0.93 J	10 U	10 U	10 U	10 U	1.1 J	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	75	10 U	11	8.1 J	6.3 J	10 U	1.5 J	10 U	1.0 J	2.5 J	10 U	0.66 J	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
m/p-Xylenes	5**	170	20 U	19	6.5 J	4.2 J	10 U	8.9 J	2.4 J	5.5 J	10 J	10 U	3.3 J	10 U	10 U
o-Xylene	5**	98	10 U	17	9.4 J	4.4 J	10 U	7.1 J	10 U	3.1 J	6.7 J	10 U	2.5 J	10 U	10 U
Total VOCs	NS	611.4	19.2	178.5	67.1	42.29	680	17.5	2.4	21.1	22.5	ND	7.96	ND	1.0

Notes:

All results expressed in micrograms per liter (ug/L, equivalent to parts per billion).

Standard Organic Data Qualifiers have been used.

NS indicates no standard.

GV indicates that the value listed is a Guidance Value rather than a Standard.

* Standard applies to the sum of the *cis* and *trans* isomers.

** Standard applies to the sum of the isomers.

Results in **bold** typeface exceed the applicable NYS groundwater stand/GV.

U = not detected at detection limit.

J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).

B = Indicates analyte was found in the blank as well as the sample.

D = Results identified from diluted samples.

E = Results reported exceeded laboratory calibration range.

TABLE 4A
 ONSITE GROUNDWATER ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
 15 Church Street
 Sag Harbor, NY

Sample ID Date	NYSDEC Groundwater Standard	MW-16												
		10/15/01	04/04/02	06/05/02	08/09/02	10/07/02	12/18/02	02/13/03	04/03/03	06/05/03	08/28/03	11/04/03	04/20/04	
Chloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Vinyl Chloride	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chloroethane	5	10 U	10 U	10 U	6.5 J	8.3 J	2.8 J	10 U	10 U	10 U	32	10 U	10 U	
Methylene Chloride	5	10 U	10 U	2.5 JB	4.5 JB	1.1 JB	10 U	10 U	10 U	1.0 JB	3.1 J	2.4	10 U	
Acetone	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9.9 JB	50 U	
Carbon Disulfate	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1 Dichloroethene	5	10 U	10 U	10 U	10 U	1.1 J	0.86 J	10 U	10 U	10 U	10 U	10 U	10 U	
1,1 Dichloroethane	5	3.7 J	7.4 J	14	40	51	22	3.9 J	10 U	10 U	160	16	13	
trans-1,2-Dichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
cis-1,2-Dichloroethene	5	10 U	10 U	3.7 J	10	13	5.9 J	1.5 J	1.5 J	10 U	38	5.3 J	4.1 J	
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,2 Dichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Butanone	50 GV	10 U	10 U	10 U	10 U	10 U	61	10 U	10 U	10 U	10 U	50 U	50 U	
1,1,1 Trichloroethane	5	6.1 J	25	15	30	22	18	7.8 J	10 U	10 U	110	14	6.1 J	
Carbon Tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromodichloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,2-Dichloropropane	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
cis-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trichloroethene	5	36	38	20	27	26	19	12	16	6.8 J	18	21	11	
Dibromochloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1,2-Trichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
trans-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Bromoform	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
4-Methyl-2-Pentanone	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	
2-Hexanone	50 GV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U	
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
m/p-Xylenes	5**	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
o-Xylene	5**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total VOCs	NS	46	70.4	55.2	118	122.5	129.56	25.2	17.5	7.8	361.1	58.7	34.2	

Notes:

All results expressed in micrograms per liter (ug/L, equivalent to parts per billion).

Standard Organic Data Qualifiers have been used.

NS indicates no standard.

GV indicates that the value listed is a Guidance Value rather than a Standard.

* Standard applies to the sum of the *cis* and *trans* isomers.

** Standard applies to the sum of the isomers.

Results in **bold** typeface exceed the applicable NYS groundwater stand/GV.

U = not detected at detection limit.

J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).

B = Indicates analyte was found in the blank as well as the sample.

D = Results identified from diluted samples.

E = Results reported exceeded laboratory calibration range.

TABLE 4A
 ONSITE GROUNDWATER ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
 15 Church Street
 Sag Harbor, NY

Sample ID Date	NYSDEC Groundwater Standard	MW-22										
		06/05/02	08/09/02	10/07/02	12/18/02	02/13/03	04/03/03	06/05/03	08/28/03	11/04/03	04/20/04	
Chloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5	10 U	10 U	1.2 JB	10 U	10 U	10 U	10 U	10 U	10 U	3.9 J	10 U
Acetone	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U
Carbon Disulfate	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1 Dichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1 Dichloroethane	5	8.8	11	10 U	2.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	5	47	57	2.8 J	12	2.9 J	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2 Dichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	50 GV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
1,1,1 Trichloroethane	5	18	27	2.1 J	2.5 J	1.2 J	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	36	56	5.4 J	9.2 J	4.4 J	1.5 J	1.2 J	1.9 J	4.3 J	9.5 J	
Dibromochloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	0.4*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U
2-Hexanone	50 GV	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	50 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
m/p-Xylenes	5**	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
o-Xylene	5**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total VOCs	NS	109.8	151	11.5	26.3	8.5	1.5	1.2	1.9	8.2	9.5	

Notes:

All results expressed in micrograms per liter (ug/L, equivalent to parts per billion).

Standard Organic Data Qualifiers have been used.

NS indicates no standard.

GV indicates that the value listed is a Guidance Value rather than a Standard.

* Standard applies to the sum of the *cis* and *trans* isomers.

** Standard applies to the sum of the isomers.

Results in **bold** typeface exceed the applicable NYS groundwater stand/GV.

U = not detected at detection limit.

J = Analyte detected at concentrations below the laboratory method detection limit (concentration estimated).

B = Indicates analyte was found in the blank as well as the sample.

D = Results identified from diluted samples.

E = Results reported exceeded laboratory calibration range.

TABLE 4B
OFFSITE GROUNDWATER ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Sample ID Date	NYSDEC Groundwater Standard	GP-1				GP-2				GP-3				Trip Blank
		18'-20' 9/5/06	28'-30' 9/5/06	38'-40' 9/5/06	58'-60' 9/5/06	11'-13' 9/5/06	20'-22' 9/5/06	30'-32' 9/5/06	50'-52' 9/5/06	7'-9' 9/6/06	16'-18' 9/6/06	26'-28' 9/6/06	46'-48' 9/6/06	
Chloromethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	2	<10	<10	<10	<10	<10	<10	6.5 J	<10	<10	<10	<10	<10	<10
Bromomethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1 Dichloroethene	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	50	5.8 JB	<50	<50	<50	8.0 JB	<50	<50	4.9 JB	6.5 JB	5.8 JB	5.9 JB	4.4 JB	11 JB
Carbon Disulfate	NS	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.0 J	<10	<10	<10
Methylene Chloride	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,2-Dichloroethene	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1 Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone	50 GV	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1.6 J	<50	<50
Carbon Tetrachloride	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	5	<10	<10	<10	<10	<10	<10	1.9 J	<10	<10	<10	<10	<10	<10
Chloroform	7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,1 Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2 Dichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	5	<10	1.8 J	<10	<10	<10	2.2 J	5.3 J	<10	<10	<10	<10	<10	<10
1,2-Dichloropropane	1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromodichloromethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	NS	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Toluene	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,3-Dichloropropene	0.4*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
cis-1,3-Dichloropropene	0.4*	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2-Trichloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	50 GV	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Dibromochloromethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethene	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chlorobenzene	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m/p-Xylenes	5**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o-Xylene	5**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Styrene	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bromoform	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,1,2,2-Tetrachloroethane	5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total VOCs	NS	0	1.8	0	0	0	2.2	13.9	0	0	1.0	1.6	0	0

Notes:

All results expressed in micrograms per liter (ug/L, equivalent to parts per billion).

Standard Organic Data Qualifiers have been used.

NS indicates no standard.

GV indicates that the value listed is a Guidance Value rather than a Standard.

* Standard applies to the sum of the *cis* and *trans* isomers.

** Standard applies to the sum of the isomers.

Results in **bold** typeface exceed the applicable NYS groundwater stand/GV.

U = not detected.

J = Analyte detected at concentrations below the laboratory reporting limit (concentration estimated).

B = Indicates analyte was found in the blank as well as the sample.

D = Results identified from diluted samples.

E = Results reported exceeded laboratory calibration range.

TABLE 5
AS/SVE MASS REMOVAL CALCULATIONS

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Period 1- 3/1/02 to 4/4/02		Baseline(Start-up 3/1/02)		34 days in Period 1				Actual	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 1	Actual Removal/Period(kg)
Vinyl Chloride	440	0.44	250	3.1	4485.9	0.0045	0.1525	100.0	0.15
1,1-dichloroethene	290	0.29	250	2.1	2956.6	0.0030	0.1005	89.0	0.09
cis-1,2-Dichloroethene	1400	1.4	250	9.9	14273.3	0.0143	0.4853	90.0	0.44
1,1,1-trichloroethane	18000	18	250	127.4	183513.6	0.1835	6.2395	97.3	6.07
trichloroethene	27000	27	250	191.2	275270.4	0.2753	9.3592	93.3	8.74
tetrachloroethene	840	0.84	250	5.9	8564.0	0.0086	0.2912	96.7	0.28
tetrahydrofuran	3300	3.3	250	23.4	33644.2	0.0336	1.1439	98.6	1.13
51270								Period 1 Total	16.90

Period 2- 4/4/02 to 5/6/02		Sample Date 4/4/2002		31 days in Period 2				Actual	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 2	Actual Removal/Period(kg)
Vinyl Chloride	0	0	293	0	0	0	0	0	0
1,1-dichloroethene	32	0.032	293	0.3	382.4	0.0004	0.0119	69.1	0.01
cis-1,2-Dichloroethene	140	0.14	293	1.2	1672.8	0.0017	0.0519	63.6	0.03
1,1,1-trichloroethane	480	0.48	293	4.0	5735.4	0.0057	0.1778	75.0	0.13
trichloroethene	1800	1.8	293	14.9	21507.8	0.0215	0.6667	38.9	0.26
tetrachloroethene	28	0.028	293	0.2	334.6	0.0003	0.0104	32.1	0.00
tetrahydrofuran	47	0.047	293	0.4	561.6	0.0006	0.0174	78.7	0.01
2527								Period 2 Total	0.45

Period 3- 5/6/02 to 6/25/02		Sample Date 5/6/2002		51 days in Period 3				Estimated	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 3	Actual Removal/Period(kg)
Vinyl Chloride	0	0	309	0	0	0	0	0	0
1,1-dichloroethene	9.9	0.0099	309	0.1	124.8	0.0001	0.0064	30	0.002
cis-1,2-Dichloroethene	51	0.051	309	0.4	642.7	0.0006	0.0328	30	0.010
1,1,1-trichloroethane	120	0.12	309	1.1	1512.2	0.0015	0.0771	30	0.023
trichloroethene	1100	1.1	309	9.6	13861.4	0.0139	0.7069	30	0.212
tetrachloroethene	19	0.019	309	0.2	239.4	0.0002	0.0122	30	0.004
tetrahydrofuran	10	0.01	309	0.1	126.0	0.0001	0.0064	30	0.002
1309.9								Period 3 Total	0.25

Period 4- 6/25/02 to 7/17/02		Sample Date 5/6/2002		23 days in Period 4				Estimated	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 4	Actual Removal/Period(kg)
Vinyl Chloride	0	0	307	0	0	0	0	0	0
1,1-dichloroethene	9.9	0.0099	307	0.1	123.9	0.0001	0.0029	30	0.001
cis-1,2-Dichloroethene	51	0.051	307	0.4	638.5	0.0006	0.0147	30	0.004
1,1,1-trichloroethane	120	0.12	307	1.0	1502.4	0.0015	0.0346	30	0.010
trichloroethene	1100	1.1	307	9.6	13771.7	0.0138	0.3167	30	0.095
tetrachloroethene	19	0.019	307	0.2	237.9	0.0002	0.0055	30	0.002
tetrahydrofuran	10	0.01	307	0.1	125.2	0.0001	0.0029	30	0.001
1309.9								Period 4 Total	0.11

TABLE 5
AS/SVE MASS REMOVAL CALCULATIONS

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Period 5- 11/14/02 to 12/31/02		Sample Date 11/14/2002		41 days in Period 5				Actual	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 5	Actual Removal/Period(kg)
Vinyl Chloride	0	0	286	0	0	0	0	0	0
1,1-dichloroethene	7.35	0.00735	286	0.1	85.7	0.0001	0.0035	100	0.004
cis-1,2-Dichloroethene	37.5	0.0375	286	0.3	437.4	0.0004	0.0179	70.6	0.013
1,1,1-trichloroethane	900	0.9	286	7.3	10497.0	0.0105	0.4304	98.6	0.424
trichloroethene	2300	2.3	286	18.6	26825.6	0.0268	1.0999	85.2	0.937
tetrachloroethene	50.5	0.0505	286	0.4	589.0	0.0006	0.0241	74.2	0.018
tetrahydrofuran	0	0	286	0	0	0	0	0	0
3295.35								Period 5 Total	1.40

Period 6A- 12/31/02 to 2/13/03		Sample Date 11/14/2002		32 days in Period 6A				Actual	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 6A	Actual Removal/Period(kg)
Vinyl Chloride	0	0	287	0	0	0	0	0	0
1,1-dichloroethene	7.35	0.00735	287	0.1	86.0	0.0001	0.0028	100	0.003
cis-1,2-Dichloroethene	37.5	0.0375	287	0.3	438.9	0.0004	0.0140	70.6	0.010
1,1,1-trichloroethane	900	0.9	287	7.3	10533.7	0.0105	0.3371	98.6	0.332
trichloroethene	2300	2.3	287	18.7	26919.4	0.0269	0.8614	25.2	0.217
tetrachloroethene	50.5	0.0505	287	0.4	591.1	0.0006	0.0189	74.2	0.014
tetrahydrofuran	0	0	287	0	0	0	0	0	0
3295.35								Period 6A Total	0.58

Period 6B- 2/13/03 to 3/13/03		Sample Date 2/13/2003		29 days in Period 6B				Estimated	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 6B	Actual Removal/Period(kg)
Vinyl Chloride	0	0	257	0	0	0	0	0	0
1,1-dichloroethene	0	0	257	0.0	0.0	0.0000	0	30	0.000
cis-1,2-Dichloroethene	11	0.011	257	0.1	115.3	0.0001	0.0033	30	0.001
1,1,1-trichloroethane	12	0.012	257	0.1	125.8	0.0001	0.0036	30	0.001
trichloroethene	340	0.34	257	2.5	3563.4	0.0036	0.1033	30	0.031
tetrachloroethene	13	0.013	257	0.1	136.2	0.0001	0.0040	30	0.001
tetrahydrofuran	0	0	257	0	0	0	0	0	0
376								Period 6B Total	0.03

Period 7- 4/22/03 to 6/26/03		Sample Date 4/22/2003		66 days in Period 7				Estimated	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 7	Actual Removal/Period(kg)
Vinyl Chloride	0	0	315	0	0	0	0	0	0
1,1-dichloroethene	0	0	315	0.0	0.0	0.0000	0	30	0.000
cis-1,2-Dichloroethene	13	0.013	315	0.1	167.0	0.0002	0.0110	30	0.003
1,1,1-trichloroethane	38	0.038	315	0.3	488.1	0.0005	0.0322	30	0.010
trichloroethene	540	0.54	315	4.8	6936.8	0.0069	0.4578	30	0.137
tetrachloroethene	9.2	0.009	315	0.1	118.2	0.0001	0.0078	30	0.002
tetrahydrofuran	0	0	315	0	0	0	0	0	0
600.2								Period 7 Total	0.15

TABLE 5
AS/SVE MASS REMOVAL CALCULATIONS

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Period 8- 6/26/03 to 8/8/03		Sample Date 4/22/2003		43 days in Period 8				Estimated	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 8	Actual Removal/Period(kg)
Vinyl Chloride	0	0	335	0	0	0	0	0	0
1,1-dichloroethene	0	0	335	0.0	0.0	0.0000	0	30	0.000
cis-1,2-Dichloroethene	13	0.013	335	0.1	177.6	0.0002	0.0076	30	0.002
1,1,1-trichloroethane	38	0.038	335	0.4	519.1	0.0005	0.0223	30	0.007
trichloroethene	540	0.54	335	5.1	7377.2	0.0074	0.3172	30	0.095
tetrachloroethene	9.2	0.009	335	0.1	125.7	0.0001	0.0054	30	0.002
tetrahydrofuran	0	0	335	0	0	0	0	0	0
600.2								Period 8 Total	0.11

Period 9 - 3/3/04 to 4/6/04		Sample Date 3/3/2004		35 days in Period 9				Estimated	
Compound	Sample Results (ug/m3)	Sample Results (mg/m3)	Period Average Flow Rate	Removal/min(mg/min)	Removal/day(mg)	Removal/day(kg)	Removal/Period(kg)	% Removal in Period 9	Actual Removal/Period(kg)
Vinyl Chloride	0	0	352	0	0	0	0	0	0
1,1-dichloroethene	180	0.18	352	1.8	2583.9	0.0026	0.090435502	30	0.027
cis-1,2-Dichloroethene	120	0.12	352	1.2	1722.6	0.0017	0.0603	30	0.018
1,1,1-trichloroethane	1800	1.8	352	17.9	25838.7	0.0258	0.9044	30	0.271
trichloroethene	2600	2.6	352	25.9	37322.6	0.0373	1.3063	30	0.392
tetrachloroethene	56	0.056	352	0.6	803.9	0.0008	0.0281	30	0.008
tetrahydrofuran	0	0	352	0	0	0	0	0	0
4756								Period 9 Total	0.72

Total Removed (kg) during 385 Day Period	
Compound	
Vinyl Chloride	0.15
1,1-dichloroethene	0.13
cis-1,2-Dichloroethene	0.53
1,1,1-trichloroethane	7.29
trichloroethene	11.11
tetrachloroethene	0.34
tetrahydrofuran	1.14
Total (kg)	20.69
Total (lbs)	45.63

Notes:

1. Removal per day column is calculated assuming system runs 24hrs/day with maintenance shut down considered negligible
2. Period Average flow rate is the average flow rate from all the weekly O&M vivits within the period.
3. The estimated % removal column for periods 3 and 4 were conservatively estimated at 30% removal.
4. Removal per period column assumes 100% removal existed
5. Actual Removal per period takes into account that 100% removal does not exist
6. System was restarted on 11-14-02 and sampling was performed to develop a baseline; during Period 5 an estimated removal efficiency of 30% was used until the next analytical results are available to calculate the actual removal efficiency.
7. During Period 5 the system was off for extensive maintenance for 7 days and thus taken into account.
8. System was off upon arrival on 1-8-03 due to equipment failure. The system was restarted on 1-13-03. For the removal period 6A we were unable to estimate when the system shut down so we will assume that no VOC removal occurred from 12/31/03 to 1/13/03.
9. The % Removal in Period 5 has been adjusted to reflect actual removal rates upon review of analytical data collected on 2-13-03 was tabulated.

TABLE 6
PID READINGS

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

	04/22/03	05/01/03	05/08/03	05/15/03	05/22/03	05/29/03	06/05/03	06/11/03	06/17/03	06/26/03	07/02/03	07/09/03	07/15/03	03/03/04	03/09/04	03/16/04	03/23/04	04/01/04
VE-1	0.1	0.3	ND	ND	ND	ND	ND	ND	ND	closed	closed	ND	ND	0.8	closed	ND	ND	ND
VE-2	ND	0.5	ND	ND	ND	ND	ND	ND	ND	closed	closed	ND	ND	ND	2.8	ND	ND	ND
VE-3	ND	5.7	0.2	ND	ND	ND	0.3	ND	1.2	closed	closed	ND	0.6	6.0	2.5	ND	ND	ND
VE-4	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	0.9
VE-5	ND	0.3	ND	ND	ND	ND	ND	ND	ND	closed	closed	ND	ND	ND	closed	ND	ND	ND
VE-6	0.4	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	5.3
VE-7	ND	1.0	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND	ND	ND
VE-8	ND	0.5	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	ND	ND
VE-9	ND	1.1	0.2	ND	ND	ND	ND	ND	0.6	ND	ND	ND	0.2	closed	3.5	closed	closed	closed
MW-16	ND	0.6	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	closed	ND	ND	ND

Notes:

PID readings are in parts per million (ppm)

PID readings collected using Photovac 2020 PID

ND = PID meter did not indicate VOC concentrations above 0.0 ppm.

Closed = VE leg not utilized during period of system operation.

TABLE 7A
HISTORICAL ONSITE SOIL GAS ANALYTICAL DATA SUMMARY

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

COMPOUND	SGP-1		SGP-2		SGP-3		SGP-4		SGP-5		SGP-6		SGP-7		SGP-8		SGP-9		SGP-10		SGP-13		SGP-14		SGP-15*				
	Date	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05	05/23/05		
Freon 12																													
Freon 114																													
Chloromethane																													
Vinyl Chloride																													
Bromomethane																													
Chloroethane																													
Freon 11	9.2												8.2																
1,1-Dichloroethene																													
Freon 113		16																											
Methylene Chloride																													
1,1-Dichloroethane		19		20		32		22		34		8.8																	
cis-1,2-Dichloroethene	4.1	36		32		54		34		64																			
Chloroform																													
1,1,1-Trichloroethane	93	750		2800		4000		2700		3400		3000		2300		2600		140		650		950		19					
Carbon Tetrachloride																													
Benzene																													
1,2-Dichloroethane																													
Trichloroethene	770	1400		6000		7800		6300		6500		3600		3000		1200		480		1200		1800		2400		3500			
1,2-Dichloropropane																													
cis-1,3-Dichloropropene																													
Toluene																													
trans-1,3-Dichloropropene																													
1,1,2-Trichloroethane																													
Tetrachloroethene	15	22		55		71		120		85		89		79		82		30		48		84		14		23			
Ethylene Dibromide																													
Chlorobenzene																													
Ethyl Benzene																													
m,p-Xylene																													
o-Xylene																													
Styrene																													
1,1,2,2-Tetrachloroethane																													
1,3,5-Trimethylbenzene																													
1,2,4-Trimethylbenzene																													
1,3-Dichlorobenzene																													
1,4-Dichlorobenzene																													
Chlorotoluene																													
1,2-Dichlorobenzene																													
1,2,4-Trichlorobenzene																													
Hexachlorobutadiene																													
Propylene																													
1,3-Butadiene																													
Acetone	16	27																											
Carbon Disulfide	10																												
2-Propanol																													
trans-1,2-Dichloroethene																													
Vinyl Acetate																													
2-Butanone (Methyl Ethyl Ketone)		4.9																											
Hexane																													
Tetrahydrofuran	3.4			13																									
Cyclohexane																													
1,4-Dioxane																													
Bromodichloromethane																													
4-Methyl-2-pentanone																													
2-Hexanone																													
Dibromochloromethane																													
Bromoform																													
4-Ethyltoluene																													
Ethanol																													
Methyl tert-Butyl Ether																													
Heptane																													
2,2,4-Trimethylpentane																													
Propylbenzene																													
Total (May 23/24 & July 5, 2005 & January 18/19, 2006)	920.7	2274.9	8937	11957	9192	10093	6721	5508.8	1595.8	693.7	2469	3190	2765	3301	2567	1509.8	2136	2286	0	413.2	262.2	2133.1	19007	18.2	10653	2573	4207	18	1602.3
Total (June 16, 2004)	1293.2	2542	4100.6	2353.6	6832	3045	4065	3521.6	637.2	361.1	1026.8	1881.2	1801.2	1843.9	115.8	783.9	923.6	726.9	380	273.5	207.5	274.5	9819	5193.9	2712.5	4395	4489	318	1081.2
Total (April 20, 2004)	195.6	538.5	704.1	768.9	1372.2	846.4	895.4	1323.8	229.2	72.4	251.3	668.6	515	481.3	365.1	370.8	204.3	357.4	151.4	65	113.4	89	2039.7	701.3	394.8	2679.7	2976	1237.1	265
Total (March 3, 2004)	236	5153	2983	4239	2210	3925	1753	2535	NA	NA	183	1646	750	998	1002	515	689	733	130	130	66	63	6002	3951	3425	1624	2102	720	995
Total (November 4, 2003)	960	3479	6675	7606	8048	8374	6493	7106	1146	1634	1767	3774	NA	3756	2446	NA	1713	2339	509	370	400	240	NA	10445	8626	5748	7009	2251	2516
Total (August 28, 2003)	2075	710	3458	2657	4962	8160	4234	4430	1359	909	1264	2105	NA	2230	1567	NA	1013	765	320	200	360	120	NA	3833	2533	4609	5761	4079	2651
Total (March 27, 2003)	168	0	200	328	260	560	820	1016	62	68	222	332	NA	250	200	NA	140	320	0	48	0	42	NA	250	150	800	1169	890	800
Total (November 14, 2002)	408	0	12543	15397	9709	13785	5717	8361	1473	2109	2552	4926	NA	6267	7843	NA	4310	3585	1295	1087	48	260	NA	14073	12232	1506	5022	2227	2627
Total (August 9, 2002)	5034	6717	9164	6667	8016	5707	10690	11630	1880.5	2377.8	2645	5220	NA	4962	1579	NA													

TABLE 7A
HISTORICAL ONSITE SOIL GAS ANALYTICAL DATA SUMMARY

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Sample ID	SGP-17		SGP-18		SGP-19		SGP-20		SGP-21				SGP-22		SGP-23		SGP-24			SGP-25		SGP-26		SGP-27		SGP-28			
	05/24/05	05/23/05	05/24/05	05/24/05	05/24/05	05/24/05	05/24/05	05/24/05	05/24/05	01/19/06	05/24/05	01/19/06	05/24/05	01/19/06	05/24/05	05/24/05	05/24/05	07/05/05	05/24/05	07/05/05	07/05/05	07/05/05	07/05/05	07/05/05	07/05/05	07/05/05	07/05/05		
COMPOUND	4'	8'	4'	8'	4'	8'	4'	8'	4'	4'	8'	8'	4'	8'	4'	8'	4'	8'	4'	8'	4'	8'	4'	8'	4'	8'	4'	8'	
Freon 12	NA	NA					6.0																						
Freon 114	NA	NA																											
Chloromethane	NA	NA																											
Vinyl Chloride	NA	NA																											
Bromomethane	NA	NA																											
Chloroethane	NA	NA																											
Freon 11	NA	NA			8.9		6.6	6.6	7.7	NA	8.2	NA		7.2	7.7	6.4	6.7					8.3	26	17	16	16	33	25	
1,1-Dichloroethene	NA	NA																											
Freon 113	NA	NA																											
Methylene Chloride	NA	NA																											
1,1-Dichloroethane	NA	NA																											
cis-1,2-Dichloroethene	NA	NA																											
Chloroform	NA	NA																											
1,1,1-Trichloroethane	NA	NA			15	17																							
Carbon Tetrachloride	NA	NA																											
Benzene	NA	NA	10	14	4.4	3.8	25	17	6.8	NA	22	NA		8.6	11		5.3												51
1,2-Dichloroethane	NA	NA																											
Trichloroethene	NA	NA	18	59	130	11	32		0.072		0.17			9.1		120													
1,2-Dichloropropane	NA	NA																											
cis-1,3-Dichloropropene	NA	NA																											
Toluene	NA	NA	85	63	39	36	110	48	50	NA	48	NA		36	47		29												
trans-1,3-Dichloropropene	NA	NA																											
1,1,2-Trichloroethane	NA	NA																											
Tetrachloroethene	NA	NA	79	87	87	82	64	99	64	2.0	78	2.6		63	78		58												42
Ethylene Dibromide	NA	NA																											
Chlorobenzene	NA	NA																											
Ethyl Benzene	NA	NA	7.1	5.7	5.5	6.3	11	7.5	5.7	NA							6.9												19
m,p-Xylene	NA	NA	23	21	24	23	30	29	20	NA	20	NA		15	23		24												63
o-Xylene	NA	NA	5.9		5.6	5.9	7.5	7.2																					
Styrene	NA	NA																											
1,1,2,2-Tetrachloroethane	NA	NA																											
1,3,5-Trimethylbenzene	NA	NA																											
1,2,4-Trimethylbenzene	NA	NA	6.2																										
1,3-Dichlorobenzene	NA	NA																											
1,4-Dichlorobenzene	NA	NA																											
Chlorotoluene	NA	NA																											
1,2-Dichlorobenzene	NA	NA																											
1,2,4-Trichlorobenzene	NA	NA																											
Hexachlorobutadiene	NA	NA																											
Propylene	NA	NA																											
1,3-Butadiene	NA	NA		26					3.6	30	7.8	NA	64	NA															110
Acetone	NA	NA	510	400	430	360	700	430	190	NA	740	NA		350	400		220												240
Carbon Disulfide	NA	NA		10	16	45		11			9.0	NA		11	7.8														43
2-Propanol	NA	NA																											
trans-1,2-Dichloroethene	NA	NA																											
Vinyl Acetate	NA	NA																											
2-Butanone (Methyl Ethyl Ketone)	NA	NA	25	39	9.0	7.6	14	21		20	NA	91	NA	19	41		12												
Hexane	NA	NA	17	20	6.6	5.3	54	11	5.0	NA	27.0	NA		11	13		33												180
Tetrahydrofuran	NA	NA	11	7.8	7.3	7.4	11	5.3	4.6	NA	10	NA		8.6	9.8		3.2												
Cyclohexane	NA	NA	860	530	670	560	640	530	300	NA	1100	NA		900	600		17	200											61
1,4-Dioxane	NA	NA																											
Bromodichloromethane	NA	NA																											
4-Methyl-2-pentanone	NA	NA																											
2-Hexanone	NA	NA																											
Dibromochloromethane	NA	NA																											
Bromoform	NA	NA																											
4-Ethyltoluene	NA	NA	6.3						5.9	7.6																			
Ethanol	NA	NA	17	25					21	10				8.4		14	NA												
Methyl tert-Butyl Ether	NA	NA	12	11	8.5	7.3	14	6.3																					
Heptane	NA	NA	530	420	470	390	390	440	250	NA	690	NA		610	380		14	160											
2,2,4-Trimethylpentane	NA	NA																											
Propylbenzene	NA	NA																											
Total (May 23/24 & July 5, 2005 & January 18/19, 2006)	NA	NA	2204.5	1704.2	1865.8	1698.6	2184	1762.6	940	2,242	2946.2	2,937		2065.2	1693.1	64.4	1407												
Total (June 16, 2004)	NA	NA	1																										

TABLE 7A
HISTORICAL ONSITE SOIL GAS ANALYTICAL DATA SUMMARY

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

Sample ID Date	SGP-29		SGP-36		SGP-37	
	07/05/05	07/05/05	10/12/05	10/12/05	10/12/05	10/12/05
COMPOUND	4'	8'	4'	8'	4'	8'
Freon 12						
Freon 114						
Chloromethane						
Vinyl Chloride						
Bromomethane						
Chloroethane						
Freon 11	18	24				
1,1-Dichloroethene						
Freon 113						
Methylene Chloride						
1,1-Dichloroethane						
cis-1,2-Dichloroethene						
Chloroform						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Benzene	18	31	5.4	9.8	5.5	24
1,2-Dichloroethane						
Trichloroethene	110	82	260	240		14
1,2-Dichloropropane						
cis-1,3-Dichloropropene	74	98	44	48	29	69
Toluene						
trans-1,3-Dichloropropene						
1,1,2-Trichloroethane	40	51	58	34		8.3
Tetrachloroethene						
Ethylene Dibromide						
Chlorobenzene						
Ethyl Benzene	17	19	11	11	6.7	14
m,p-Xylene	61	65	35	32	23	52
o-Xylene	21	23	13	12	9.4	22
Styrene						
1,1,2,2-Tetrachloroethane						
1,3,5-Trimethylbenzene	5.5					8.4
1,2,4-Trimethylbenzene	21	22	10	7.4	14	22
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
Chlorotoluene						
1,2-Dichlorobenzene						
1,2,4-Trichlorobenzene						
Hexachlorobutadiene						
Propylene						
1,3-Butadiene	38	62				
Acetone	360	340	160	140	190	220
Carbon Disulfide	26	27		14		15
2-Propanol						
trans-1,2-Dichloroethene						
Vinyl Acetate						
2-Butanone (Methyl Ethyl Ketone)	77	72	23	35	27	58
Hexane		46	6.2	16	8.9	59
Tetrahydrofuran			4.0	3.9 J	4.7	5.5
Cyclohexane	200	300	5.8	5.4	6.1	13
1,4-Dioxane						
Bromodichloromethane						
4-Methyl-2-pentanone						
2-Hexanone						52
Dibromochloromethane						
Bromoform						
4-Ethyltoluene	19	19	14	11	15	29
Ethanol	13	28	11		12	20
Methyl tert-Butyl Ether		8.0				
Heptane	35	55	7.1	12	6.3	45
2,2,4-Trimethylpentane	9.0	12			8.6	12
Propylbenzene						7.3
Total (May 23/24 & July 5, 2005 & January 16/19, 2006)	1162.5	1384	667.5	631.5	366.2	769.5
Total (June 16, 2004)	NA	NA	NA	NA	NA	NA
Total (April 20, 2004)	NA	NA	NA	NA	NA	NA
Total (March 3, 2004)	NA	NA	NA	NA	NA	NA
Total (November 4, 2003)	NA	NA	NA	NA	NA	NA
Total (August 28, 2003)	NA	NA	NA	NA	NA	NA
Total (March 27, 2003)	NA	NA	NA	NA	NA	NA
Total (November 14, 2002)	NA	NA	NA	NA	NA	NA
Total (August 9, 2002)	NA	NA	NA	NA	NA	NA
Total (October 11, 2001)	NA	NA	NA	NA	NA	NA
Total (May 8, 2000)	NA	NA	NA	NA	NA	NA

- Notes:
- 1) Samples analyzed in accordance with EPA Method TO-14.
 - 2) All results reported in micrograms per cubic meter (ug/m3).
 - 3) NA - Not Available
 - 4) * - Results for SGP-11 and SGP-12 which were replaced by SGP-15.
 - 5) Soil Gas Point SGP-17 was destroyed during soil excavation activities.
 - 6) J - Estimated Value
 - 7) Soil Gas Point SGP-25 is located approximately to SGP-17 (Western Courtyard).

TABLE 7C
 SOIL VAPOR INTRUSION (SVI) ANALYTICAL DATA SUMMARY - VOLATILE ORGANIC COMPOUNDS

Bulova Watchcase Factory
 15 Church Street
 Sag Harbor, NY

RESIDENT #1

COMPOUND	1st Floor Indoor Air 3/28-29/06	Crawl Space / Basement 3/28-29/06	Sub-Slab 3/28-29/06	Outdoor Air 3/28-29/06
Trichloroethene	0.027	ND (<0.027)	0.2	ND (<0.024)
Tetrachloroethene	0.45	ND (<0.23)	1.8	ND (<0.21)
1,1,1-Trichloroethane	0.45	0.25	0.42	ND (<0.16)

RESIDENCE #2

COMPOUND	1st Floor Indoor Air 12/7-8/06	Basement Indoor Air 12/7-8/06	Outdoor Air 12/7-8/06
Trichloroethene	0.063	0.085	0.057
Tetrachloroethene	ND (<0.21)	ND (<0.18)	0.23
1,1,1-Trichloroethane	ND (<0.17)	ND (<0.15)	ND (<0.13)

BUSINESS #1

COMPOUND	1st Floor Indoor Air 06/29/06	Basement Indoor Air 06/29/06	Outdoor Air 06/29/06
Trichloroethene	0.11	0.044	ND (<0.046)
Tetrachloroethene	ND (<0.31)	ND (<0.22)	ND (<0.39)
1,1,1-Trichloroethane	ND (<0.25)	ND (<0.18)	ND (<0.31)

BUSINESS #2

COMPOUND	1st Floor Indoor Air 03/28/06	Sub-Slab 03/28/06	Outdoor Air 03/28/06
Trichloroethene	0.026	0.056	ND (<0.026)
Tetrachloroethene	ND (<0.22)	0.62	ND (<0.22)
1,1,1-Trichloroethane	ND (<0.18)	ND (<0.17)	ND (<0.18)

BUSINESS #4

COMPOUND	1st Floor Indoor Air 03/28/06	Crawl Space 03/28/06	Outdoor Air 03/28/06
Trichloroethene	0.036	0.032	0.12
Tetrachloroethene	ND (<0.21)	ND (<0.21)	0.38
1,1,1-Trichloroethane	ND (<0.17)	ND (<0.17)	ND (<0.18)

BUSINESS #5

COMPOUND	1st Floor Indoor Air 06/29/06	Basement Indoor Air 06/29/06	Sub-Slab 06/29/06	Outdoor Air 06/29/06
Trichloroethene	0.031	0.033	0.11	ND (<0.029)
Tetrachloroethene	0.31	0.62	0.92	ND (<0.24)
1,1,1-Trichloroethane	ND (<0.19)	ND (<0.15)	0.76	ND (<0.20)

Notes:

Concentrations are reported in units of ug/m³.
 ND = Not Detected (reporting limit)

FIGURES



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS

1:250,000 Scale: 1:9,600 Detail: 1:4,800 Datum: WGS84

Scale: 1:9.600

Reference:
 DeLorme 3-D Topo Quads
 Yarmouth, Me.
 1999
 Datum WGS84

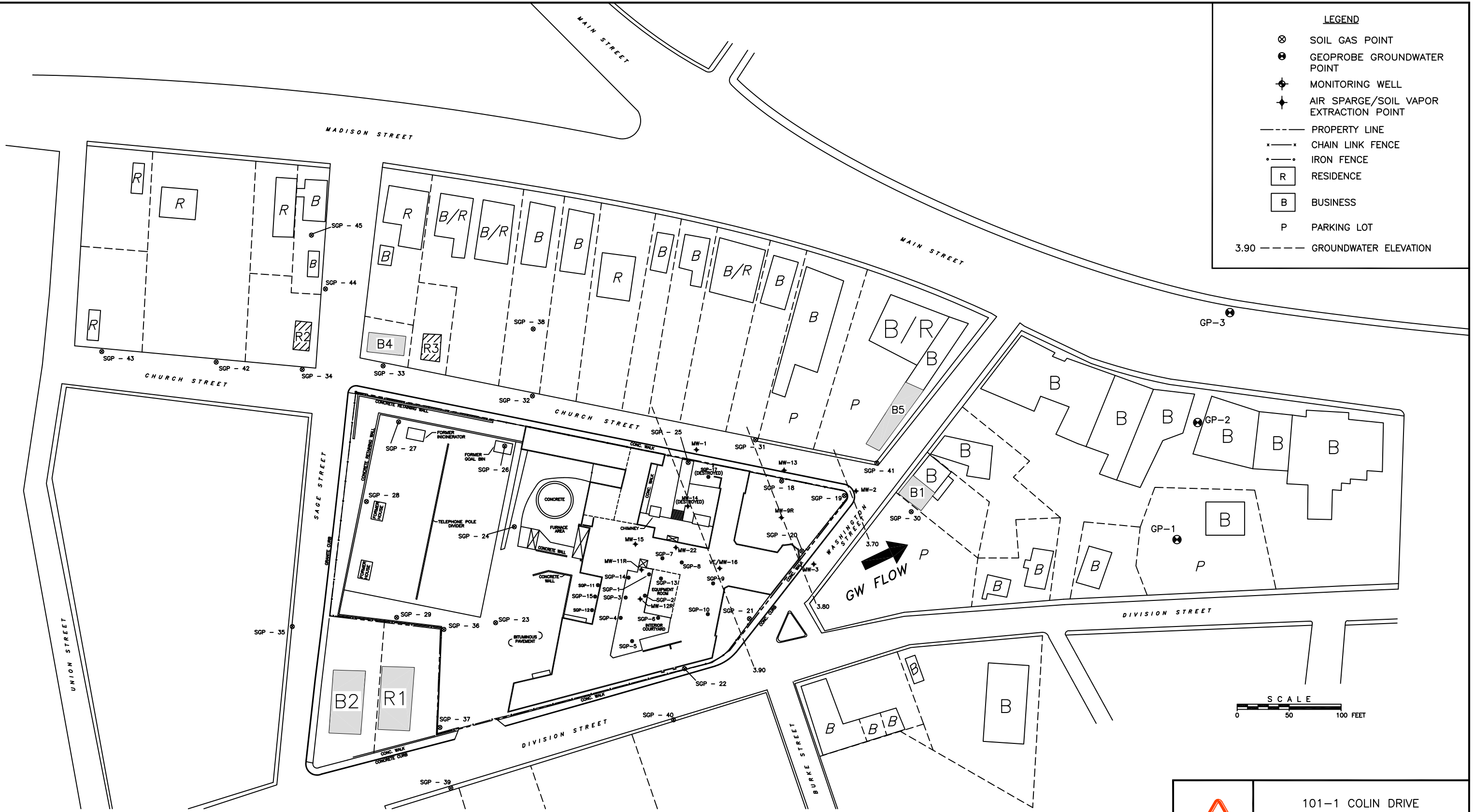
Figure 1
Site Location Map

Bulova Watch Case Factory
15 Church Street
Sag Harbor, New York


X-REF: ---
 OFFICE: Holbrook
 DRAWN BY: DD
 DATE: 5/30/06
 JOB No.: 837053
 PM: E. Gustafson
 Appvd. By: E. Gustafson
 DRAWING NUMBER: FRAR Fig2 v2

LEGEND

- ⊗ SOIL GAS POINT
- ⊙ GEOPROBE GROUNDWATER POINT
- ⊕ MONITORING WELL
- ⊕ AIR SPARGE/SOIL VAPOR EXTRACTION POINT
- PROPERTY LINE
- CHAIN LINK FENCE
- IRON FENCE
- R RESIDENCE
- B BUSINESS
- P PARKING LOT
- 3.90 --- GROUNDWATER ELEVATION



SOURCE: YOUNG & YOUNG
 400 OSTRANDER AVENUE, RIVERHEAD, N.Y.
 DATE: APRIL 4, 1994



Shaw
Shaw E & I, Inc.

101-1 COLIN DRIVE
 HOLBROOK, N.Y. 11741
 (516) 472-4000

FIGURE 2
SITE MAP & GROUNDWATER CONTOURS
(NOVEMBER 4, 2003)

FORMER WATCH CASE FACTORY
 15 CHURCH STREET
 SAG HARBOR, NEW YORK

DRAWING NUMBER
837053A-2

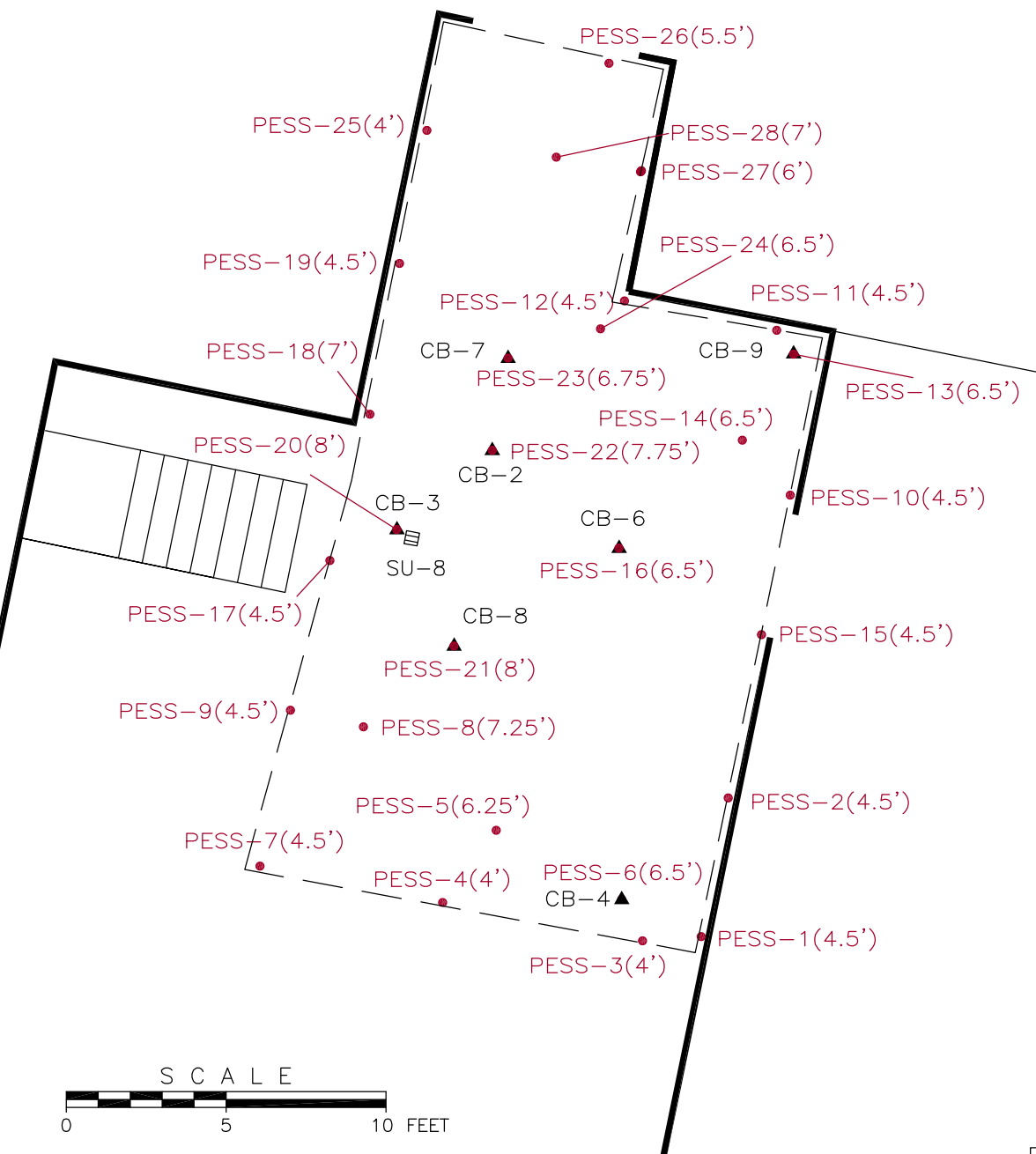
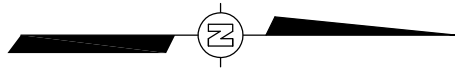
APPROVED BY

CHECKED BY

OFFICE ALBANY, NY
DRAWN BY S. SHKOLNIK
11-14-01


Image: .
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Plot Date/Time: 12/04/01 03:21pm
Format Revised: 12/15/99



NOTES:

- 1) ESTIMATED DEPTH BELOW ORIGINAL GRADE PRESENTED IN PARENTHESES.
- 2) ALL SAMPLING LOCATIONS ARE APPROXIMATE.
- 3) DOTTED LINE INDICATES APPROXIMATE LIMITS OF EXCAVATION.
- 4) PESS (●)=POST EXCAVATION SOIL SAMPLE.
- 5) CB (▲)=CONFIRMATORY BORING LOCATION.
- 6) FORMER DRY WELL SU-8 (▨).

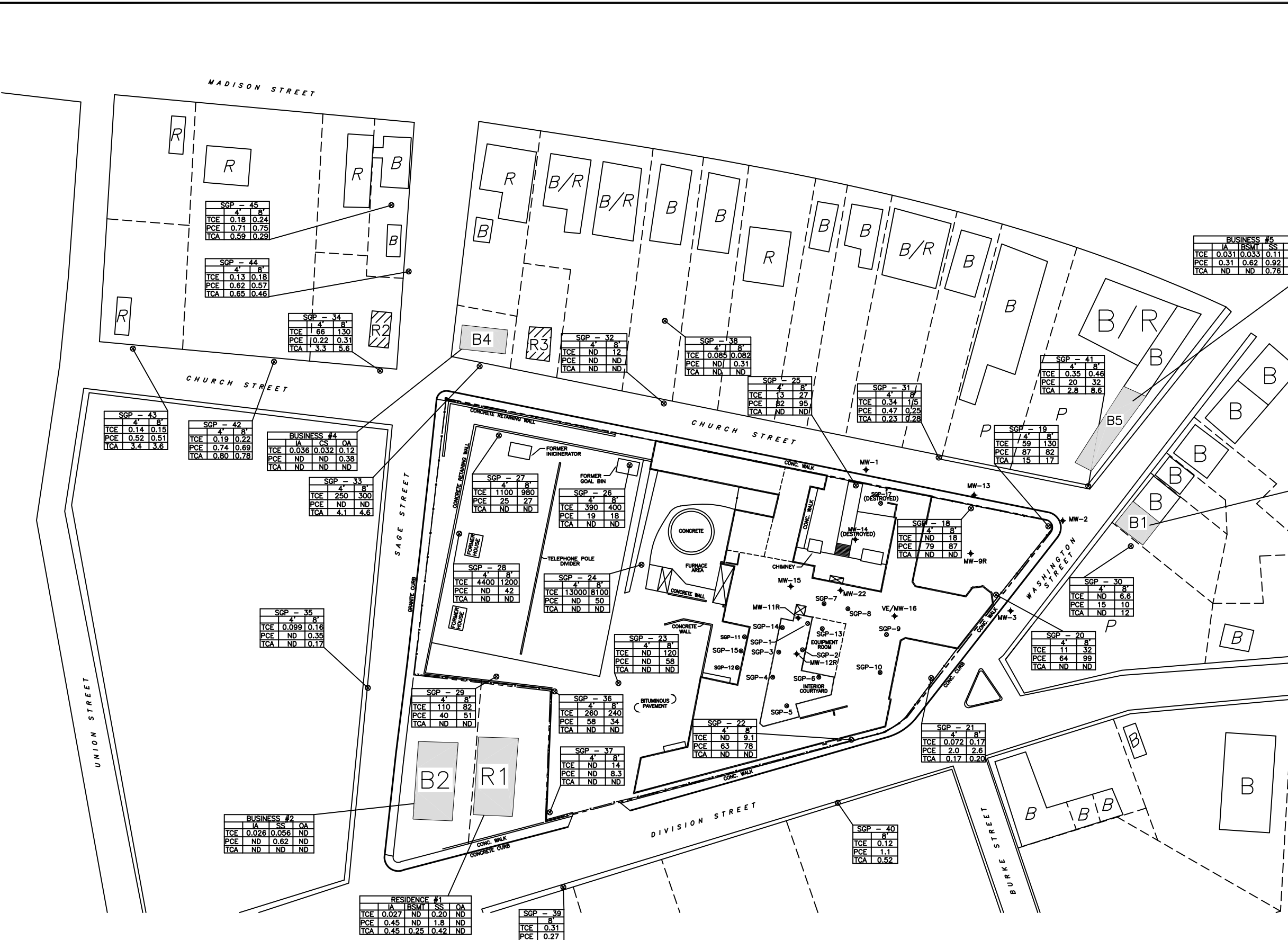
 <p>Shaw E & I, Inc.</p>	<p>BULOVA CORPORATION FORMER WATCH CASE FACTORY SITE</p>
<p>FIGURE 3 POST-EXCAVATION SAMPLING LOCATIONS OCTOBER/NOVEMBER 2001 FORMER WATCH CASE FACTORY BULOVA CORPORATION 15 CHURCH STREET SAG HARBOR, NEW YORK</p>	

LEGEND

- ⊕ MONITORING WELL
- ⊗ SOIL GAS POINT
- PROPERTY LINE
- x-x-x CHAIN LINK FENCE
- o-iron FENCE
- R RESIDENCE
- B BUSINESS
- P PARKING

RESULTS IN ug/m3

- ND NON-DETECT
- BSMT BASEMENT
- OA OUTDOOR AIR
- IA INDOOR AIR
- SS SUB-SLAB
- CS CRAWL SPACE



BUSINESS #1

	IA	BSMT	OA
TCE	0.11	0.044	ND
PCE	ND	ND	ND
TCA	ND	ND	ND

BUSINESS #2

	IA	SS	OA
TCE	0.026	0.056	ND
PCE	ND	0.62	ND
TCA	ND	ND	ND

BUSINESS #4

	IA	CS	OA
TCE	0.038	0.032	0.12
PCE	ND	ND	0.38
TCA	ND	ND	ND

BUSINESS #5

	IA	BSMT	SS	OA
TCE	0.031	0.033	0.11	ND
PCE	0.31	0.62	0.92	ND
TCA	ND	ND	0.76	ND

RESIDENCE #1

	IA	BSMT	SS	OA
TCE	0.027	ND	0.20	ND
PCE	0.45	ND	1.8	ND
TCA	0.45	0.25	0.42	ND

SCALE

0 50 100 FEET

Shaw
 Shaw E & I, Inc.

101-1 COLIN DRIVE
 HOLBROOK, N.Y. 11741
 (516) 472-4000

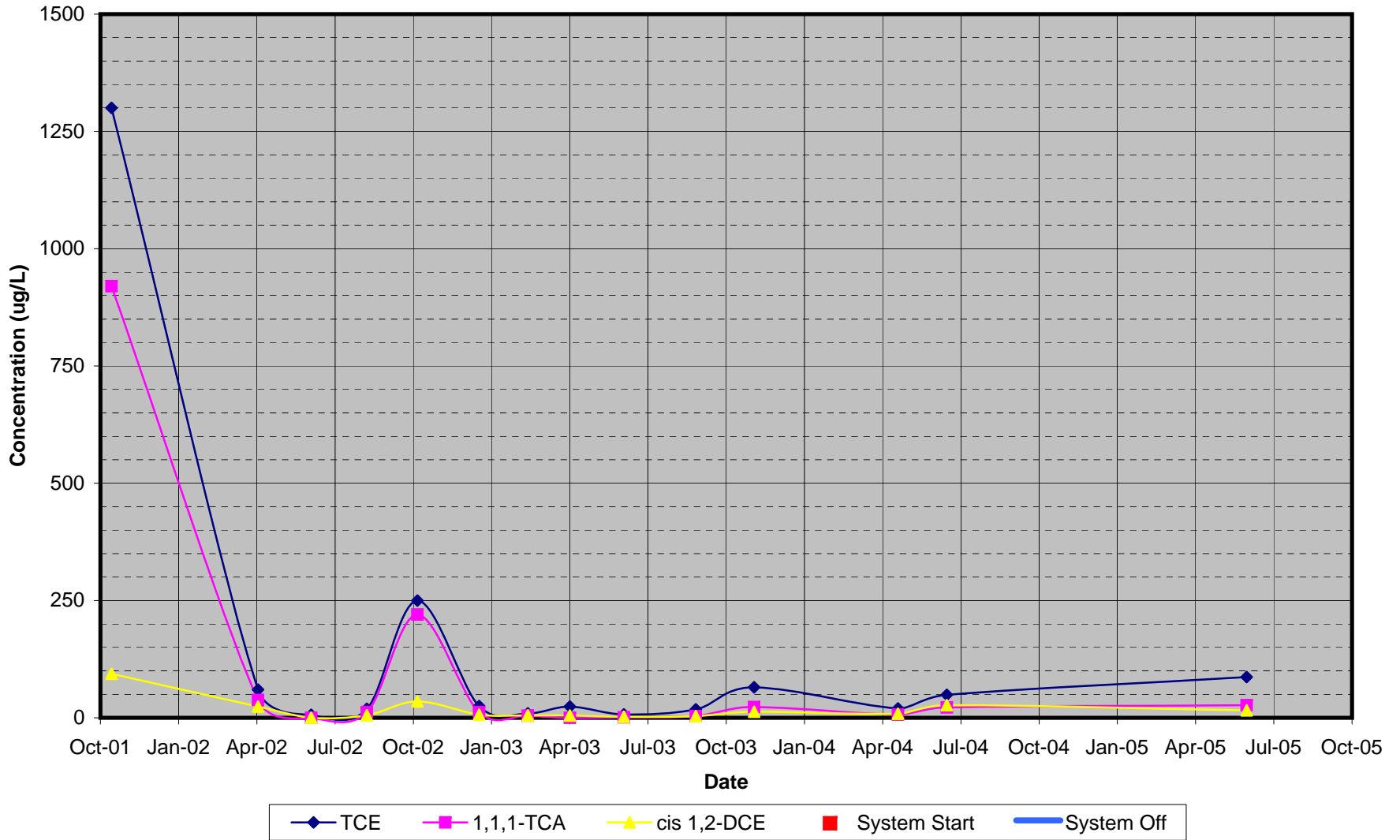
FIGURE 4
SOIL GAS & SOIL VAPOR INTRUSION (SVI) RESULTS
 FORMER WATCH CASE FACTORY
 15 CHURCH STREET
 SAG HARBOR, NEW YORK

SOURCE: YOUNG & YOUNG
 400 OSTRANDER AVENUE, RIVERHEAD, N.Y.
 DATE: APRIL 4, 1994

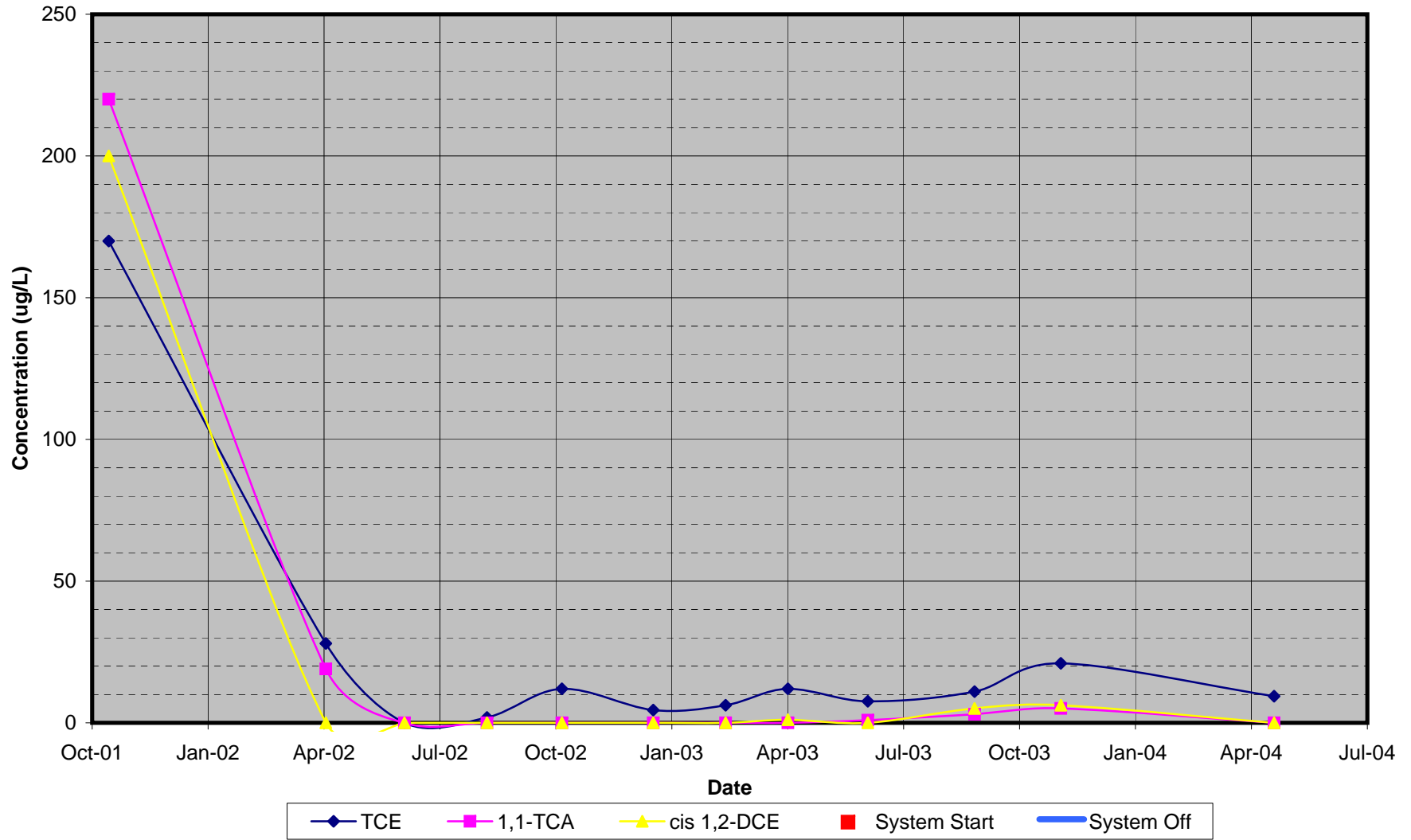
APPENDIX A

Monitoring Well Time-Series Plots

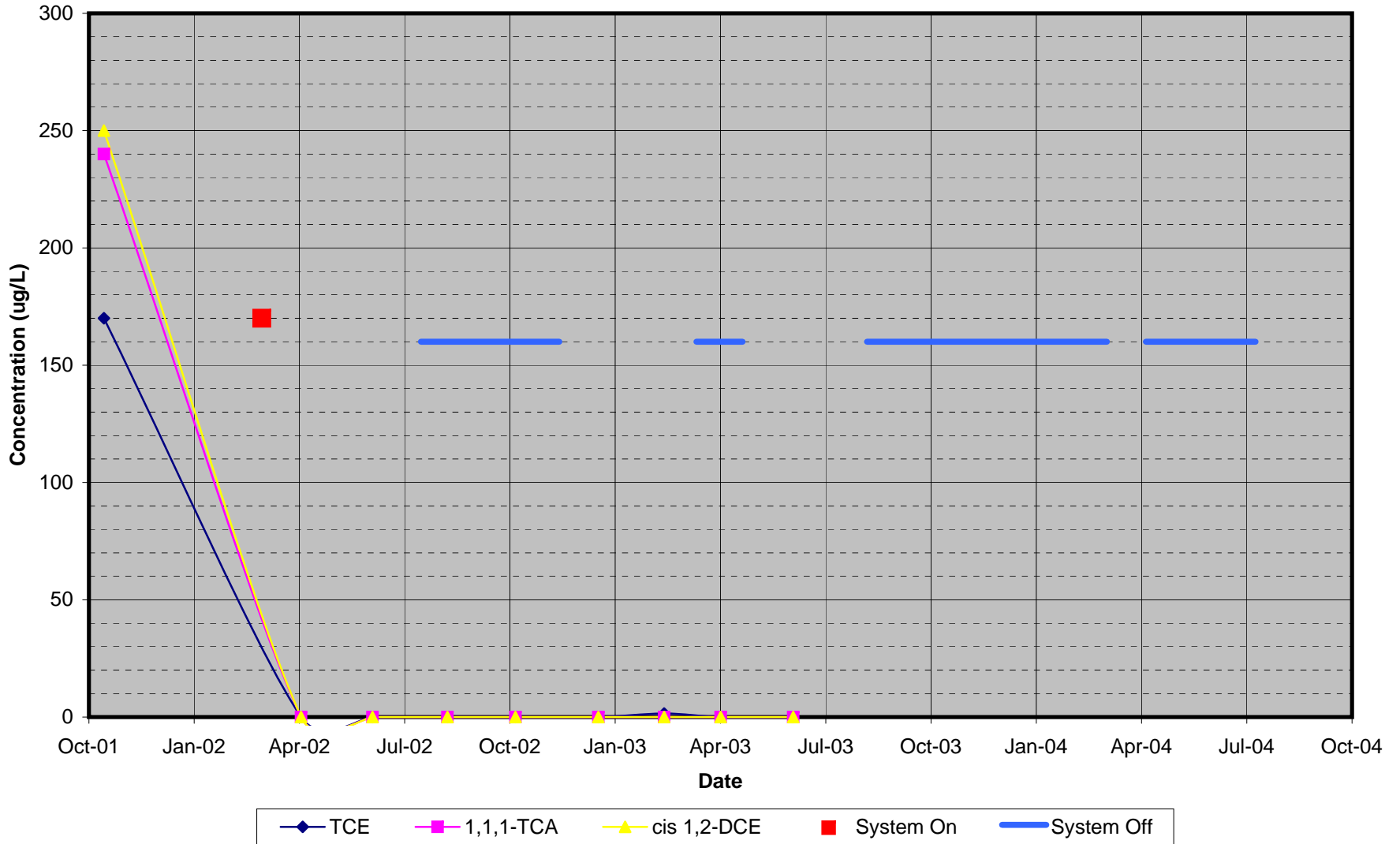
Monitoring Well MW-11R Groundwater VOC Concentrations



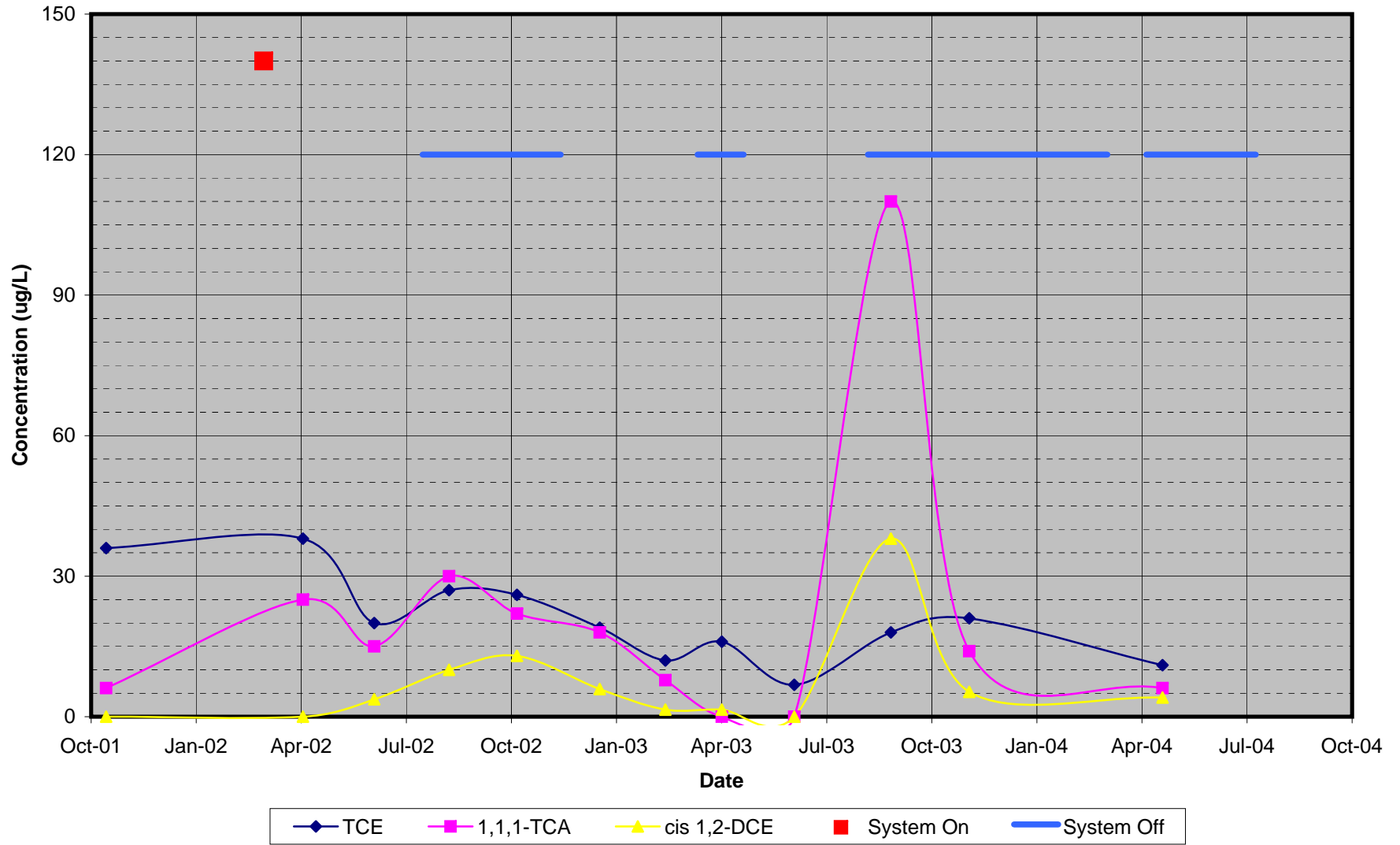
Monitoring Well MW-12R Groundwater VOC Concentrations



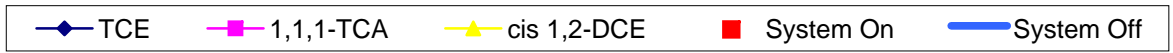
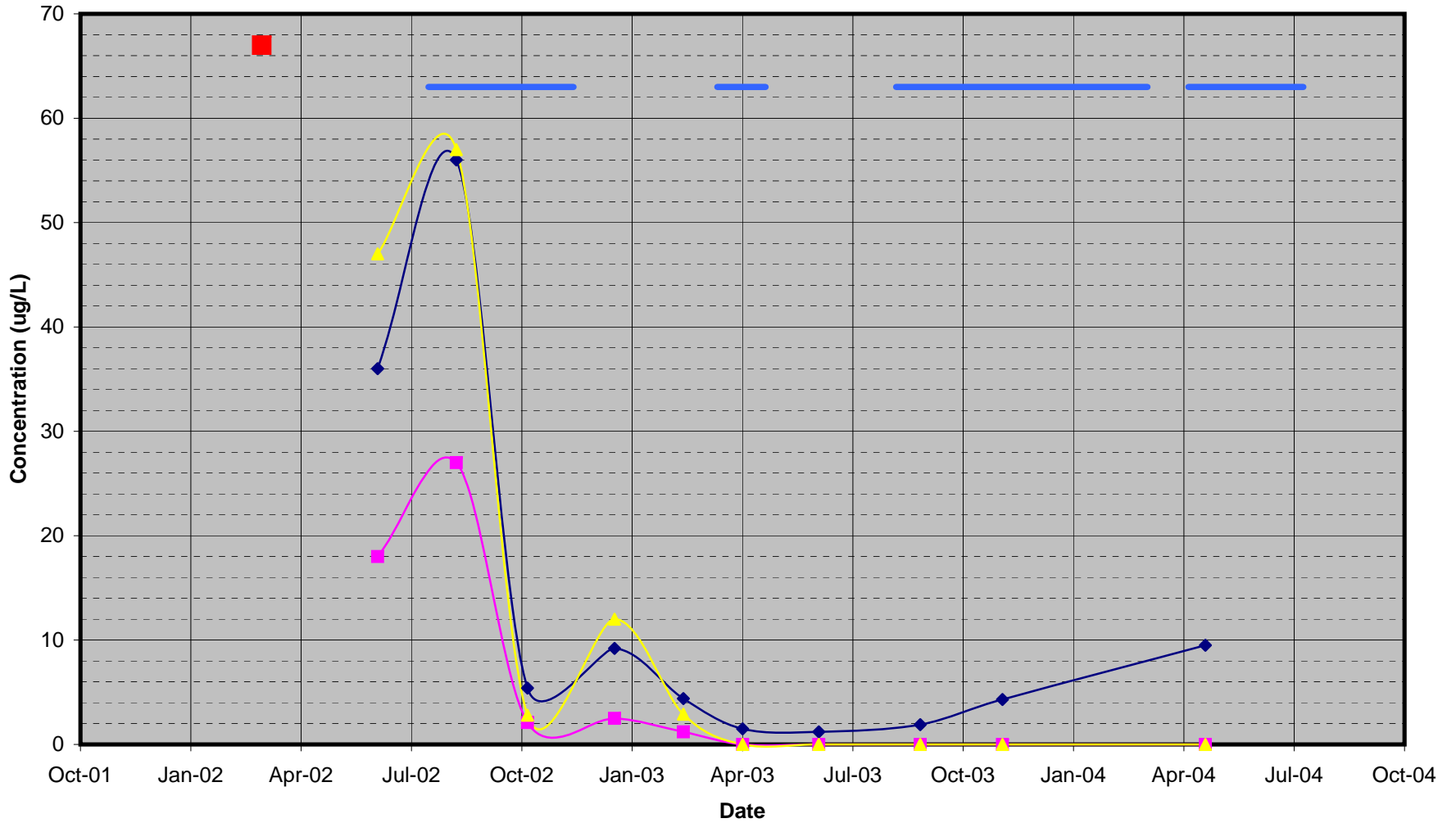
Monitoring Well MW-14 Groundwater VOC Concentrations



Monitoring Well MW-16 Groundwater VOC Concentrations



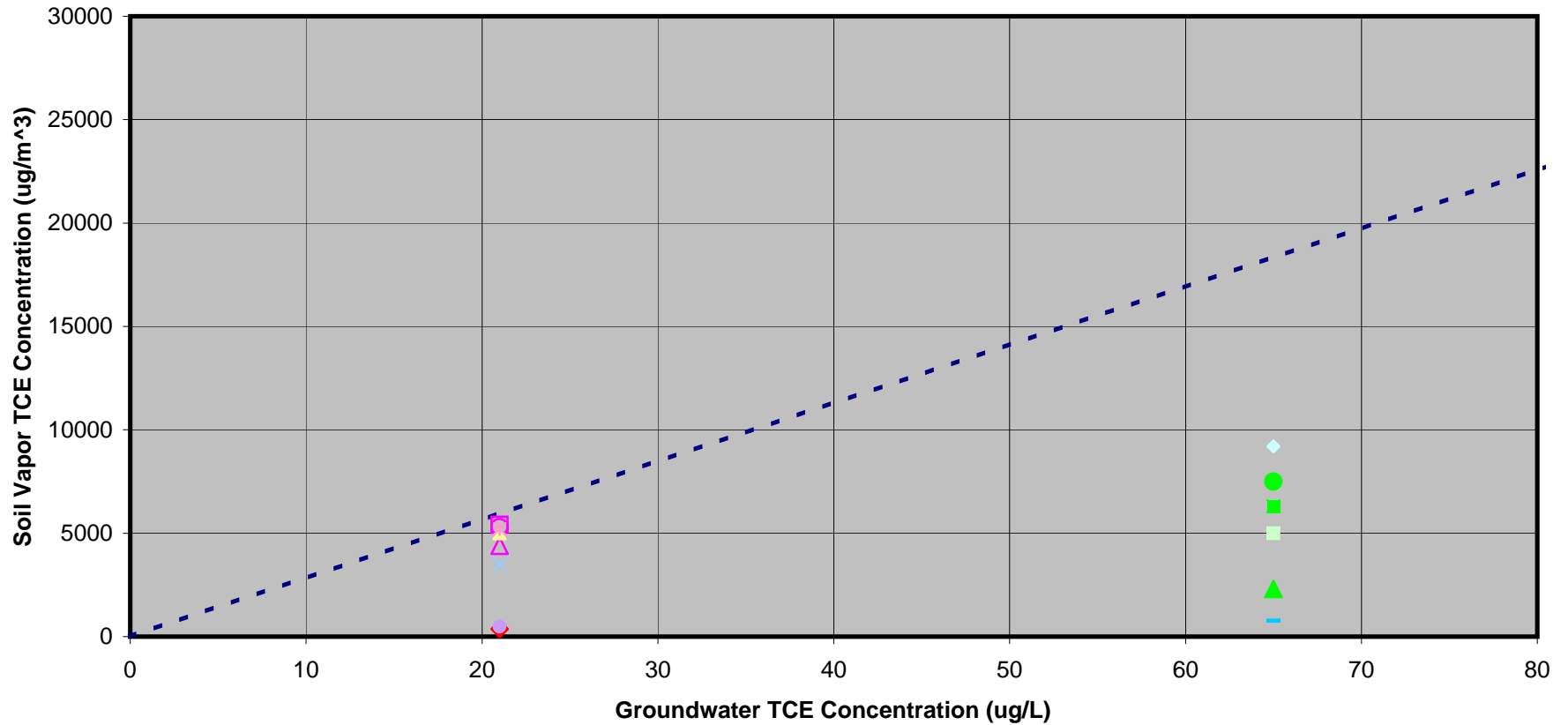
Monitoring Well MW-22 Groundwater VOC Concentrations



APPENDIX B

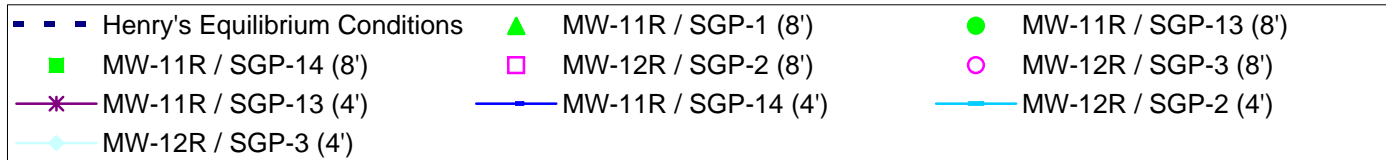
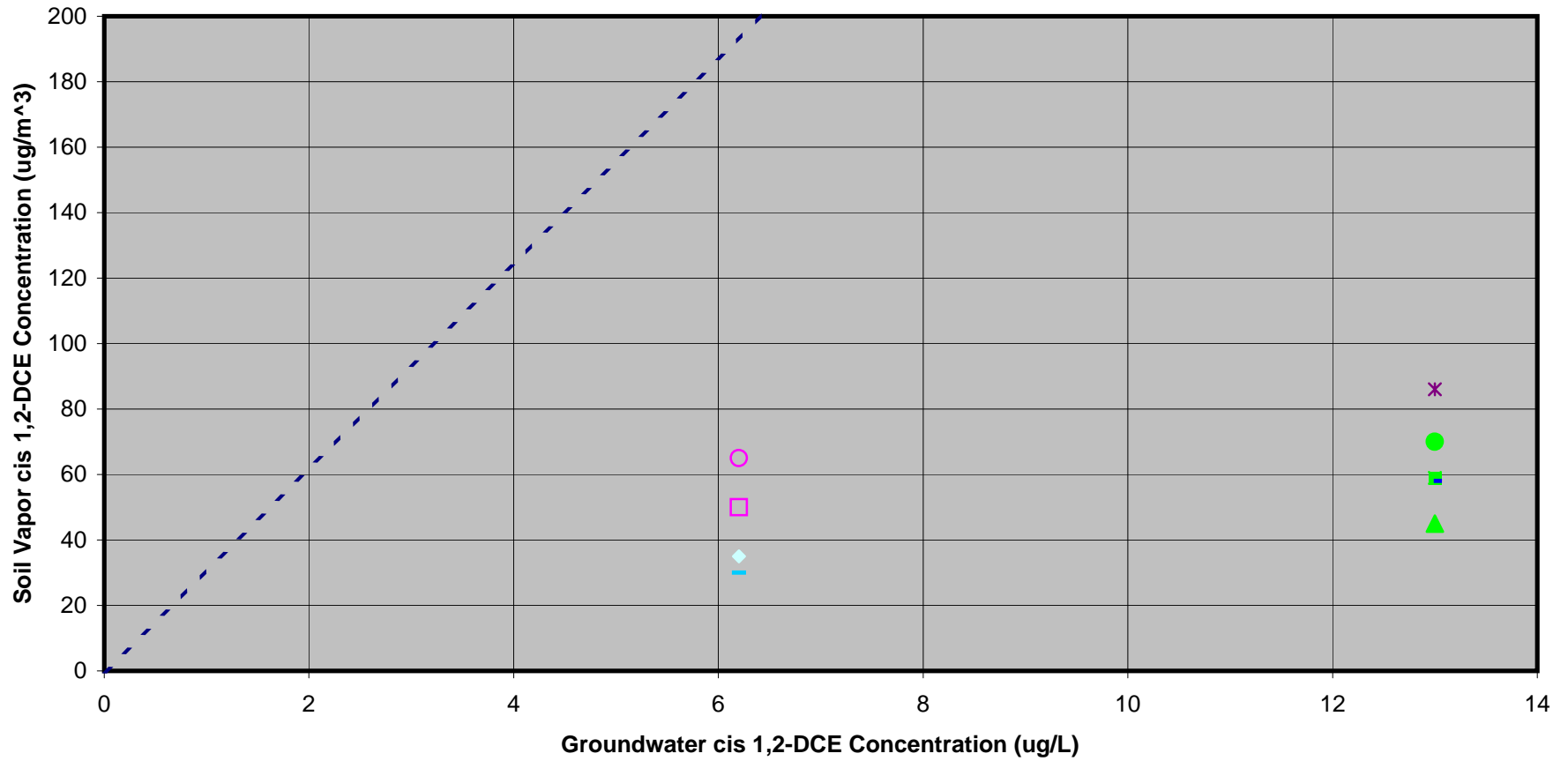
**Henry's Law Equilibrium Relationship for November 4, 2003 Groundwater/Soil
Gas Results**

TCE Concentrations at Soil Gas Points and Adjacent Monitoring Wells
November 4, 2003

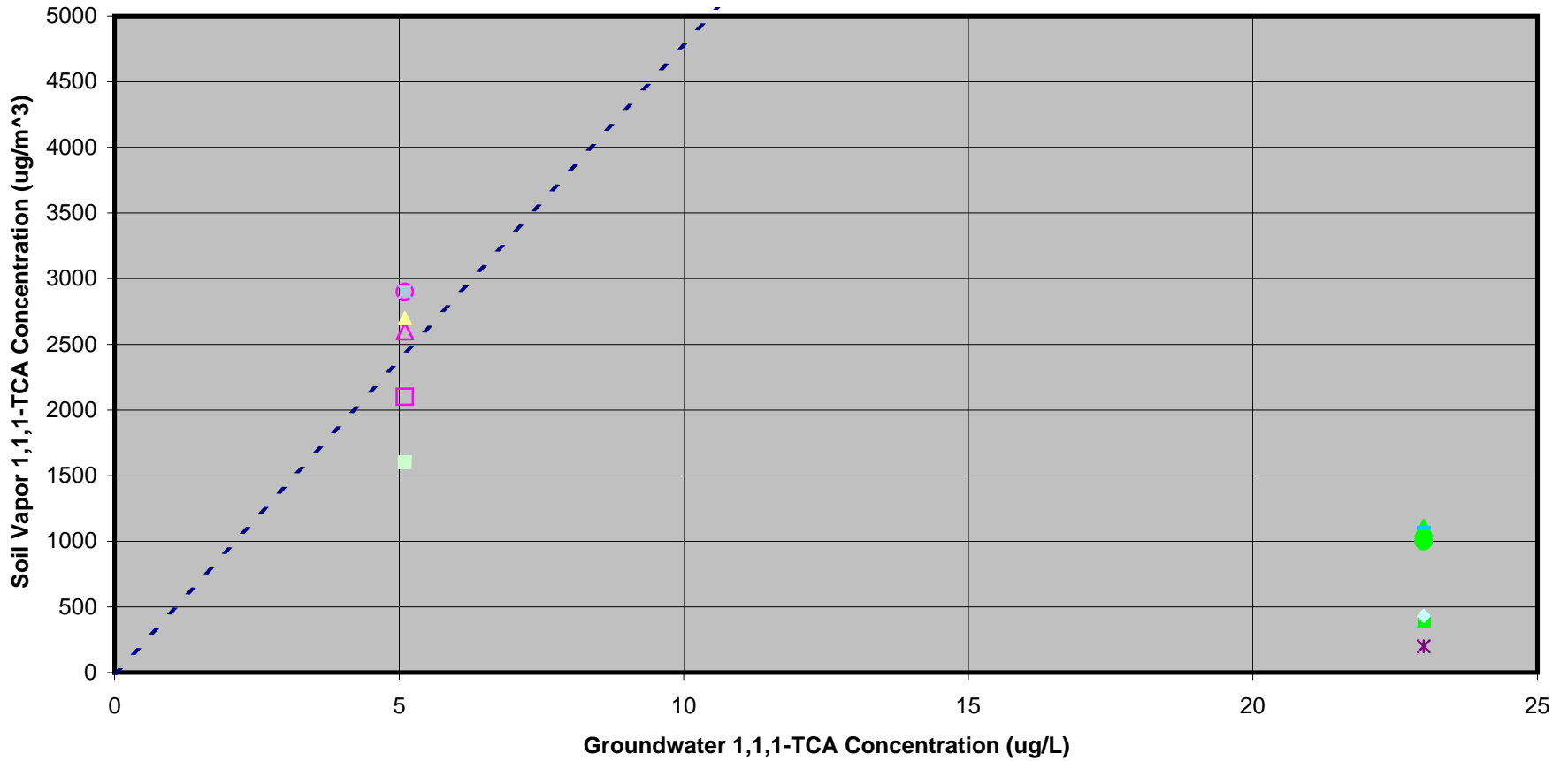


- | | | |
|--------------------------------|----------------------|----------------------|
| Henry's Equilibrium Conditions | MW-11R / SGP-1 (8') | MW-11R / SGP-13 (8') |
| MW-11R / SGP-14 (8') | MW-12R / SGP-2 (8') | MW-12R / SGP-3 (8') |
| MW-12R / SGP-4 (8') | MW-16 / SGP-9 (8') | MW-11R / SGP-1 (4') |
| MW-11R / SGP-13 (4') | MW-11R / SGP-14 (4') | MW-12R / SGP-2 (4') |
| MW-12R / SGP-4 (4') | MW-12R / SGP-3 (4') | MW-16 / SGP-9 (4') |

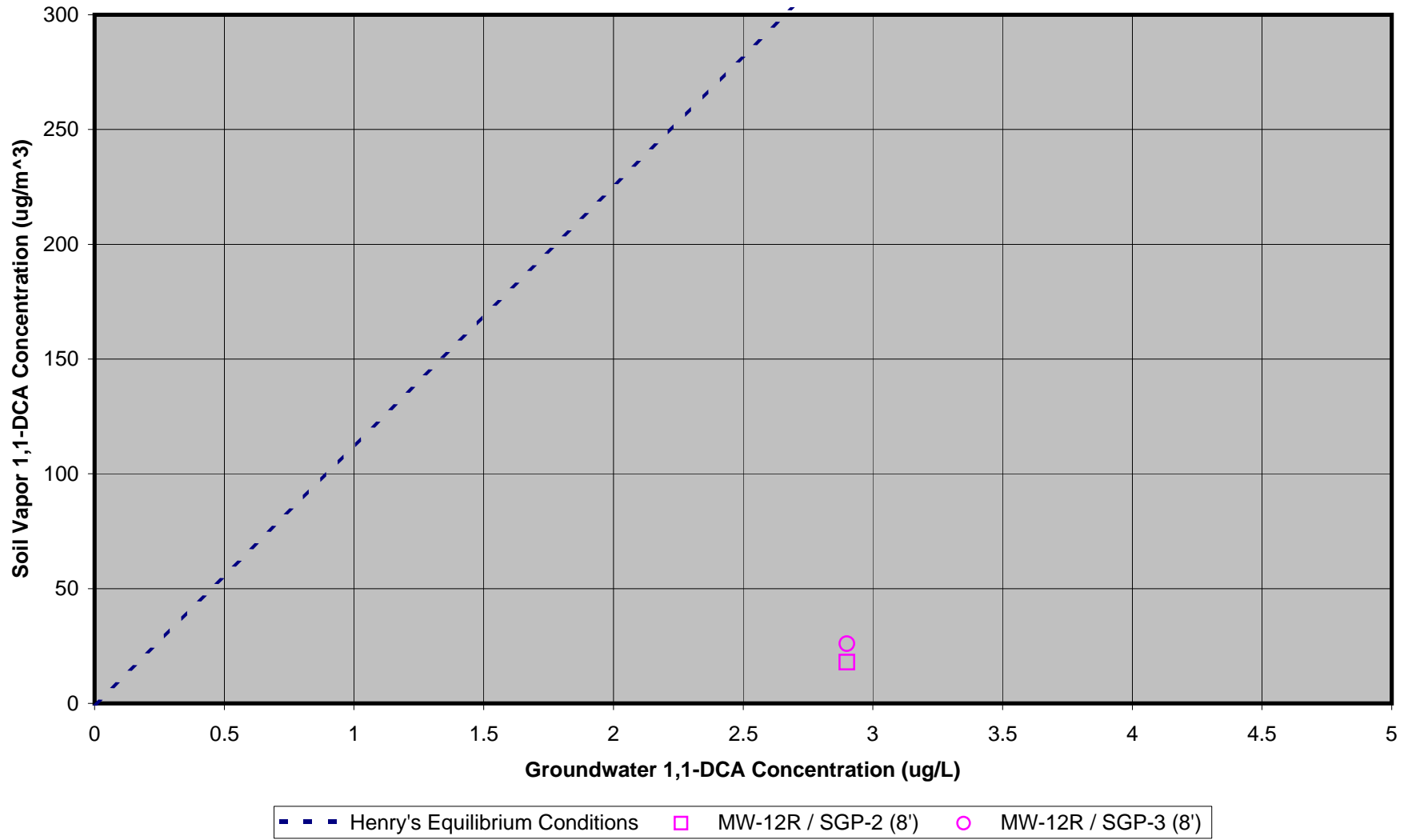
cis 1,2-DCE Concentrations at Soil Gas Points and Adjacent Monitoring Wells
November 4, 2003



1,1,1-TCA Concentrations at Soil Gas Points and Adjacent Monitoring Wells
November 4, 2003



1,1-DCA Concentrations at Soil Gas Points and Adjacent Monitoring Wells
November 4, 2003



NOVEMBER 4, 2003 HENRY'S LAW CALCULATION DATA

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

November 4, 2003

Henry's Law Constant: Vapor(ug/m³)/GW(ug/L):

	186.8922	282.3419	254.9715	479.6308
	cis-DCE	TCE	1,1-DCA	1,1,1-TCA
MW-12R ug/L	6.2	21	2.9	5.1
SGP-2 (4') ug/m ³	30	5000	nd	1600
SGP-2 (8') ug/m ³	50	5400	18	2100
Henry's calc sv conc. (based on GW) ug/m ³	1158.732	5929.18	739.4173	2446.117

Equilibrium reference curves.

TCE SV	GW	DCE SV	DCA SV	TCA SV
0	0	0	0	0
28234.19	100	18689.22	25497.15	47963.08

MW-11R ug/L	13	65	<10	23
SGP-1 (4') ug/m ³	nd	760	nd	200
SGP-1 (8') ug/m ³	45	2300	nd	1100
SGP-14 (4') ug/m ³	58	5000	nd	430
SGP-14 (8') ug/m ³	59	6300	nd	390
Henry's calc sv conc. (based on GW) ug/m ³	2429.599	18352.22		11031.51

MW-16 ug/L	5.3	21	16	14
SGP-9 (4') ug/m ³	nd	480	nd	29
SGP-9 (8') ug/m ³	nd	370	nd	nd
Henry's calc sv conc. (based on GW) ug/m ³	990.5289	5929.18	4079.544	6714.832

SGP-13 (4') ug/m ³	86	9200	27	1100
SGP-13 (8') ug/m ³	70	7500	26	1000

SGP-3 (4') ug/m ³	35	5200	nd	2700
SGP-3 (8') ug/m ³	65	5300	26	2900

SGP-4 (4') ug/m ³	nd	3500	nd	2900
SGP-4 (8') ug/m ³	nd	4400	nd	2600

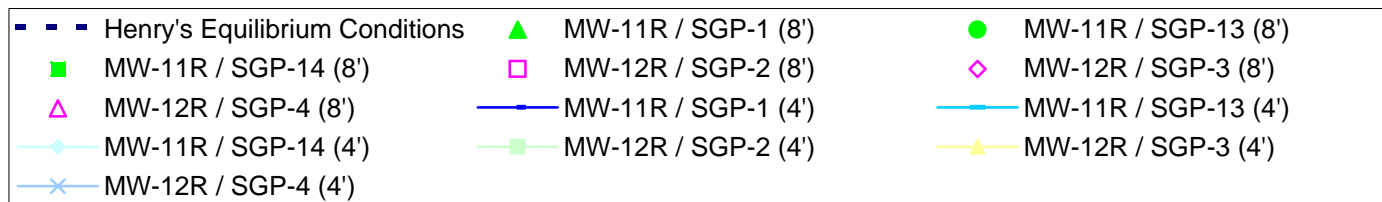
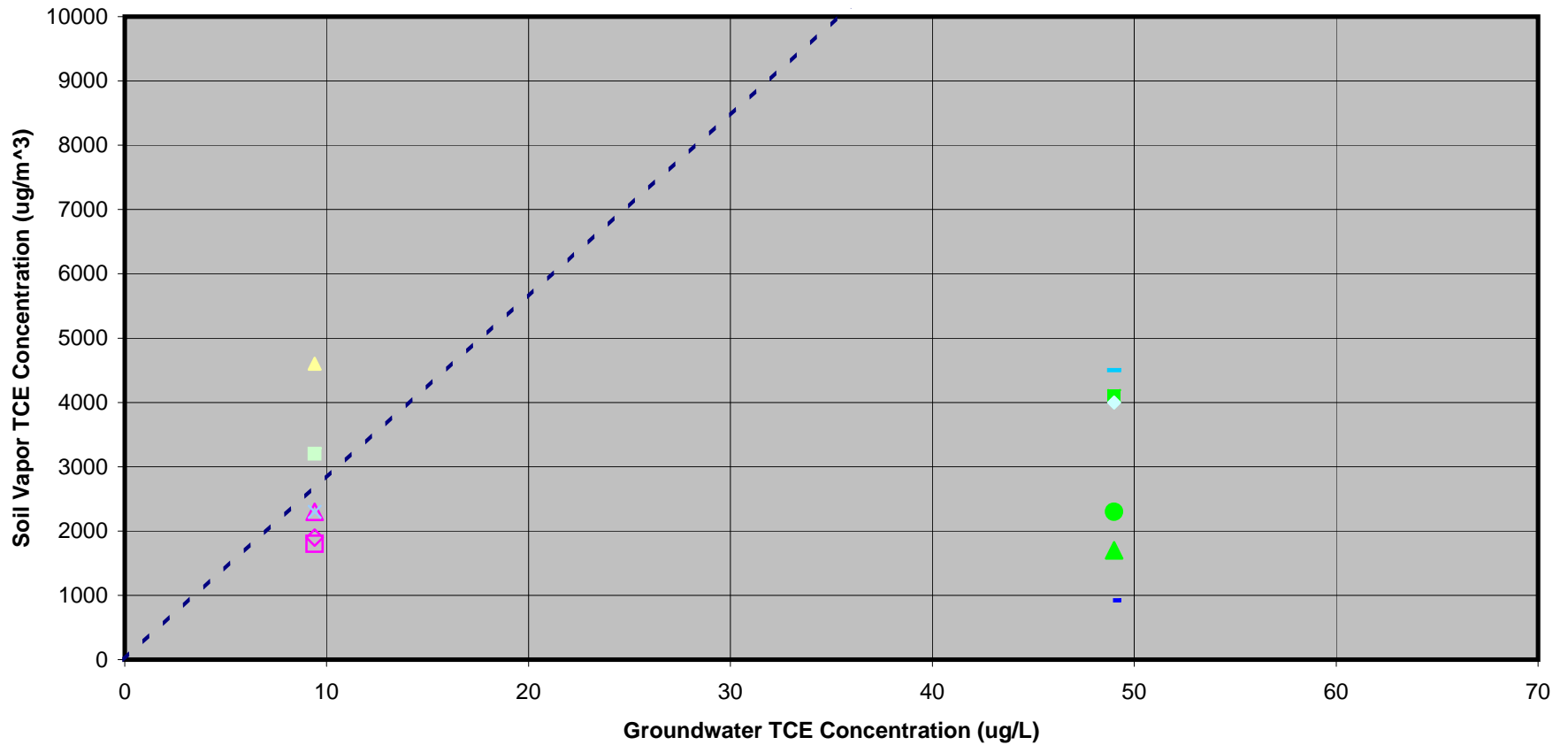
Notes:

 = Concentration slightly above concentration calculated using Henry's Law equation.

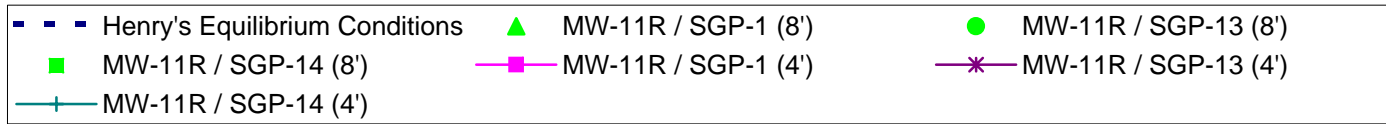
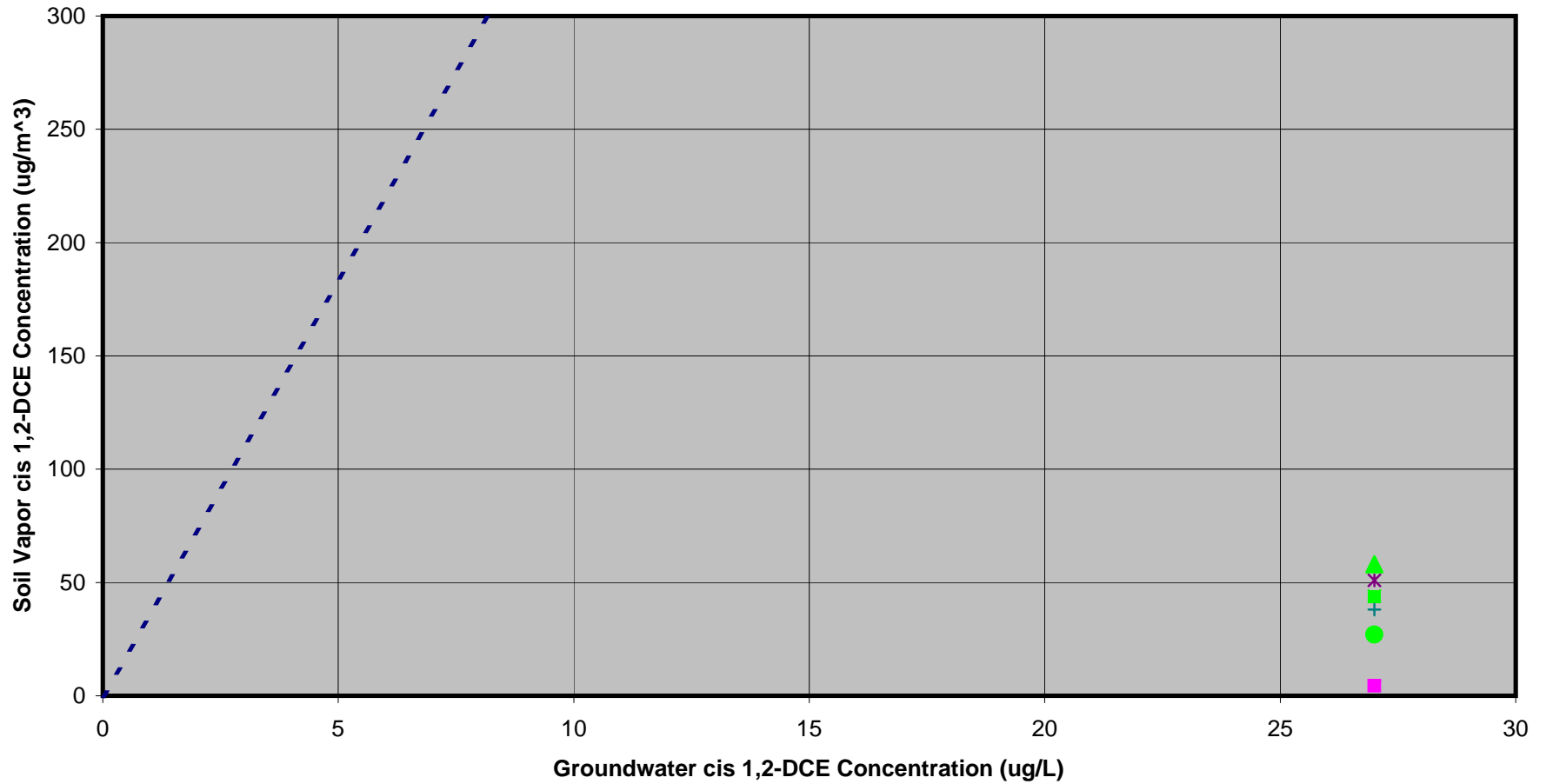
APPENDIX C

Henry's Law Equilibrium Relationship for June 16, 2004 Groundwater/Soil Gas Results

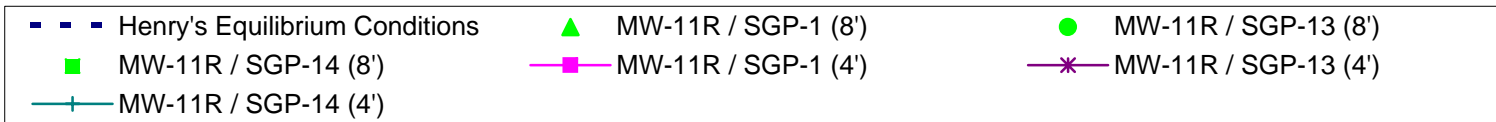
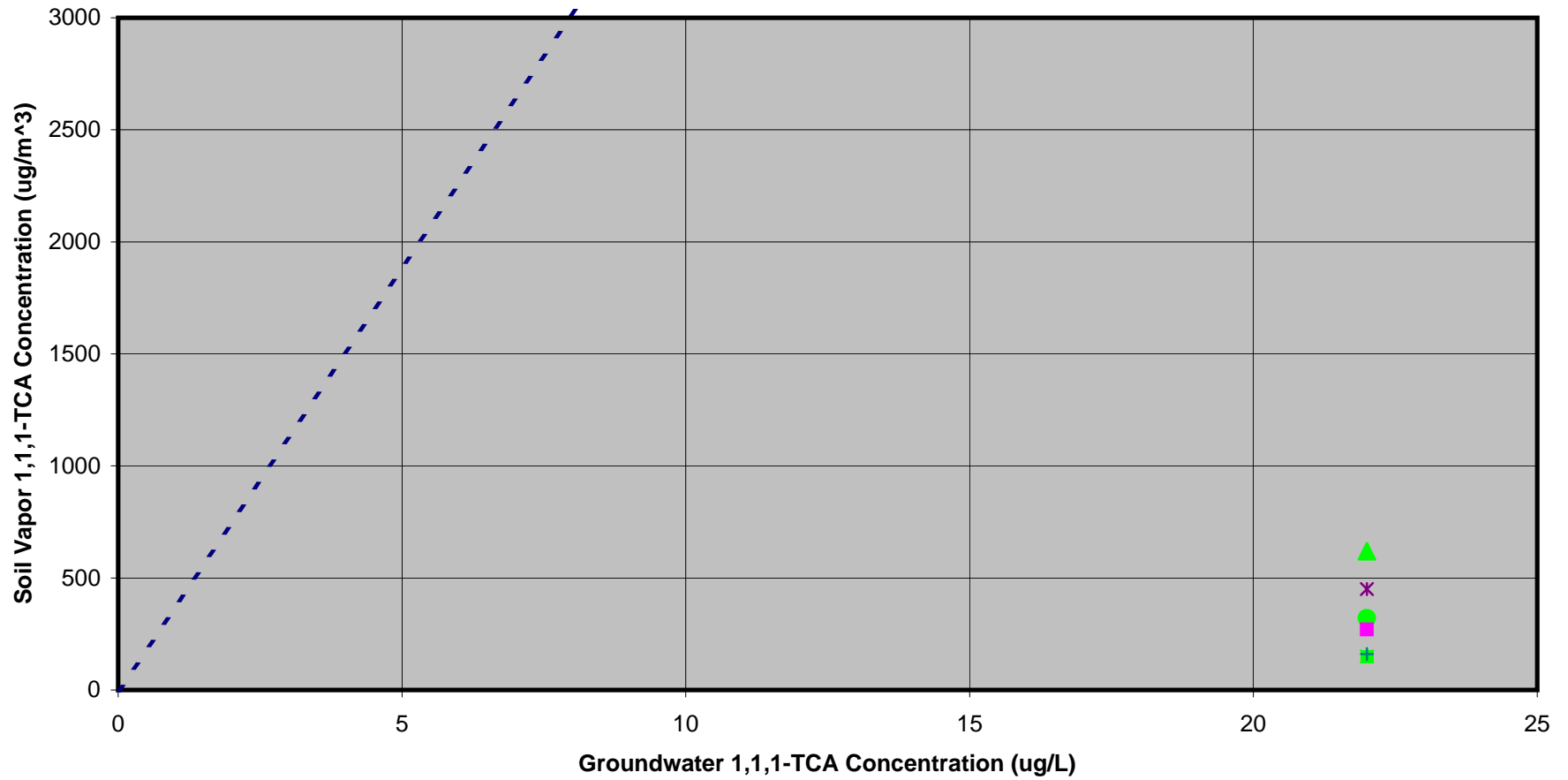
TCE Concentrations at Soil Gas Points and Adjacent Monitoring Wells June 16, 2004



**cis 1,2-DCE Concentrations at Soil Gas Points and Adjacent Monitoring Wells
June 16, 2004**



1,1,1-TCA Concentrations at Soil Gas Points and Adjacent Monitoring Wells
June 16, 2004



JUNE 16, 2004 HENRY'S LAW CALCULATION DATA

Bulova Watchcase Factory
15 Church Street
Sag Harbor, NY

June 16, 2004

Henry's Law Constant: Vapor(ug/m³)/GW(ug/L): 186.8922 282.3419 254.9715 479.6308

	cis-DCE	TCE	1,1-DCA	1,1,1-TCA
MW-11R ug/L	27	49	nd	22
SGP-1 (4') ug/m ³	4.4	920	nd	270
SGP-1 (8') ug/m ³	58	1700	nd	620
SGP-14 (4') ug/m ³	38	4000	nd	160
SGP-14 (8') ug/m ³	44	4100	nd	150
Henry's calc sv conc. (based on GW) ug/m ³	5046.091	13834.75		10551.88
SGP-13 (1') ug/m ³	100	8200	nd	650
SGP-13 (4') ug/m ³	51	4500	13	450
SGP-13 (8') ug/m ³	27	2300	7.5	320
MW-12R ug/L	nd	9.4	nd	nd
SGP-2 (4') ug/m ³	22	3200	9.1	780
SGP-2 (8') ug/m ³	19	1800	5.9	490
Henry's calc sv conc. (based on GW) ug/m ³		2654.014		
SGP-3 (4') ug/m ³	33	4600	18	2000
SGP-3 (8') ug/m ³	27	1900	13	980
SGP-4 (4') ug/m ³	nd	2300	nd	1600
SGP-4 (8') ug/m ³	nd	2300	nd	1100

Equilibrium reference curves.

TCE SV	GW	DCE SV	DCA SV	TCA SV
0	0	0	0	0
28234.19	100	18689.22	25497.15	47963.08

Notes:

= Concentration slightly above concentration calculated using Henry's Law equation.

APPENDIX D

July 2006 Soil Gas Analytical Report



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0607388

Work Order Summary

CLIENT:	Mr. Erik Gustafson Shaw Environmental & Infrastructure 101-1 Colin Drive Holbrook, NY 11741	BILL TO:	Mr. Erik Gustafson Shaw Environmental & Infrastructure 101-1 Colins Drive Holbrook, NY 11741
PHONE:	631-472-4000 x234	P.O. #	837053
FAX:	631-472-4077	PROJECT #	Bulova Sag Harbor
DATE RECEIVED:	07/20/2006	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/24/2006		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	BSH-SGP-45 (8')	Modified TO-15 SIM	2.0 "Hg
02A	BSH-SGP-45 (4')	Modified TO-15 SIM	9.0 "Hg
03A	BSH-SGP-44 (8')	Modified TO-15 SIM	5.5 "Hg
04A	BSH-SGP-44 (4')	Modified TO-15 SIM	5.0 "Hg
04AA	BSH-SGP-44 (4') Duplicate	Modified TO-15 SIM	5.0 "Hg
05A	BSH-SGP-43 (8')	Modified TO-15 SIM	4.5 "Hg
06A	BSH-SGP-43 (4')	Modified TO-15 SIM	4.0 "Hg
07A	BSH-SGP-42 (8')	Modified TO-15 SIM	5.0 "Hg
08A	BSH-SGP-42 (4')	Modified TO-15 SIM	5.5 "Hg
09A	Lab Blank	Modified TO-15 SIM	NA
10A	CCV	Modified TO-15 SIM	NA
11A	LCS	Modified TO-15 SIM	NA

CERTIFIED BY:

Laboratory Director

DATE: 07/24/06

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15 SIM
Shaw Environmental & Infrastructure
Workorder# 0607388

Eight 6 Liter Summa Special (SIM Certified) samples were received on July 20, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	<=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is <=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is <= 30% Difference with 10% of compounds allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates



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as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: BSH-SGP-45 (8')

Lab ID#: 0607388-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0043	0.045	0.023	0.24
Tetrachloroethene	0.029	0.11	0.20	0.75
1,1,1-Trichloroethane	0.029	0.053	0.16	0.29

Client Sample ID: BSH-SGP-45 (4')

Lab ID#: 0607388-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0057	0.034	0.031	0.18
Tetrachloroethene	0.038	0.10	0.26	0.71
1,1,1-Trichloroethane	0.038	0.11	0.21	0.59

Client Sample ID: BSH-SGP-44 (8')

Lab ID#: 0607388-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.034	0.026	0.18
Tetrachloroethene	0.033	0.084	0.22	0.57
1,1,1-Trichloroethane	0.033	0.084	0.18	0.46

Client Sample ID: BSH-SGP-44 (4')

Lab ID#: 0607388-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0048	0.025	0.026	0.13
Tetrachloroethene	0.032	0.091	0.22	0.62
1,1,1-Trichloroethane	0.032	0.12	0.18	0.65

Client Sample ID: BSH-SGP-44 (4') Duplicate

Lab ID#: 0607388-04AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0048	0.026	0.026	0.14
Tetrachloroethene	0.032	0.089	0.22	0.60



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Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: BSH-SGP-44 (4') Duplicate

Lab ID#: 0607388-04AA

1,1,1-Trichloroethane	0.032	0.12	0.18	0.64
-----------------------	-------	------	------	------

Client Sample ID: BSH-SGP-43 (8')

Lab ID#: 0607388-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0047	0.028	0.025	0.15
Tetrachloroethene	0.032	0.075	0.21	0.51
1,1,1-Trichloroethane	0.032	0.65	0.17	3.6

Client Sample ID: BSH-SGP-43 (4')

Lab ID#: 0607388-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0046	0.026	0.025	0.14
Tetrachloroethene	0.031	0.076	0.21	0.52
1,1,1-Trichloroethane	0.031	0.62	0.17	3.4

Client Sample ID: BSH-SGP-42 (8')

Lab ID#: 0607388-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0048	0.042	0.026	0.22
Tetrachloroethene	0.032	0.10	0.22	0.69
1,1,1-Trichloroethane	0.032	0.14	0.18	0.78

Client Sample ID: BSH-SGP-42 (4')

Lab ID#: 0607388-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.036	0.026	0.19
Tetrachloroethene	0.033	0.11	0.22	0.74
1,1,1-Trichloroethane	0.033	0.15	0.18	0.80



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-45 (8')

Lab ID#: 0607388-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	6072114	Date of Collection	7/18/06
Dil Factor	1.44	Date of Analysis	7/21/06 08:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0043	0.045	0.023	0.24
Tetrachloroethene	0.029	0.11	0.20	0.75
1,1,1-Trichloroethane	0.029	0.053	0.16	0.29

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	113	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-45 (4')

Lab ID#: 0607388-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	0607388-02A	Date of Collection:	7/18/06
Dil. Factor:	1.91	Date of Analysis:	7/21/06 07:20 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0057	0.034	0.031	0.18
Tetrachloroethene	0.038	0.10	0.26	0.71
1,1,1-Trichloroethane	0.038	0.11	0.21	0.59

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	112	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-44 (8')

Lab ID#: 0607388-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	60723112	Date of Collection:	7/18/05
Dil. Factor:	1.04	Date of Analysis:	7/21/06 06:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.034	0.026	0.18
Tetrachloroethene	0.033	0.084	0.22	0.57
1,1,1-Trichloroethane	0.033	0.084	0.18	0.46

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	113	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-44 (4')

Lab ID#: 0607388-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	6072710	Date of Collection:	7/18/06
Obj. Name:	161	Date of Analysis:	7/24/06 05:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0048	0.025	0.026	0.13
Tetrachloroethene	0.032	0.091	0.22	0.62
1,1,1-Trichloroethane	0.032	0.12	0.18	0.65

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	112	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-44 (4') Duplicate

Lab ID#: 0607388-04AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	60724111	Date of Collection:	7/21/06
Dil Factor:	1.61	Date of Analysis:	7/21/06 05:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0048	0.026	0.026	0.14
Tetrachloroethene	0.032	0.089	0.22	0.60
1,1,1-Trichloroethane	0.032	0.12	0.18	0.64

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	114	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-43 (8')

Lab ID#: 0607388-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	607388	Date of Collection:	7/1/06
Dir: 607388	1-58	Date of Analysis:	7/1/06 04:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0047	0.028	0.025	0.15
Tetrachloroethene	0.032	0.075	0.21	0.51
1,1,1-Trichloroethane	0.032	0.65	0.17	3.6

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	116	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-43 (4')

Lab ID#: 0607388-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	6072108	Date of Collection:	7/21/06
Dil. Factor:	1.55	Date of Analysis:	7/21/06 01:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0046	0.026	0.025	0.14
Tetrachloroethene	0.031	0.076	0.21	0.52
1,1,1-Trichloroethane	0.031	0.62	0.17	3.4

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	112	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-42 (8')

Lab ID#: 0607388-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	607388-07A	Date of Collection:	7/21/06
Dil. Factor:	1.00	Date of Analysis:	7/21/06 09:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0048	0.042	0.026	0.22
Tetrachloroethene	0.032	0.10	0.22	0.69
1,1,1-Trichloroethane	0.032	0.14	0.18	0.78

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	113	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-SGP-42 (4')

Lab ID#: 0607388-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	6072106	Date of Collection	7/18/06
Dil Factor	1.64	Date of Analysis	7/21/06 02:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.036	0.026	0.19
Tetrachloroethene	0.033	0.11	0.22	0.74
1,1,1-Trichloroethane	0.033	0.15	0.18	0.80

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	114	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0607388-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	60723105	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/21/06 11:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0030	Not Detected	0.016	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	115	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0607388-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	6072-102	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/21/06 10:50 AM

Compound	%Recovery
Trichloroethene	96
Tetrachloroethene	100
1,1,1-Trichloroethane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0607388-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	6072103	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	7/21/06 11:33 AM

Compound	%Recovery
Trichloroethene	99
Tetrachloroethene	107
1,1,1-Trichloroethane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	101	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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Page 1 of 1

Contact Person: Eric Gustafson
 Company: Shaw's Environmental Test Email: Eric.Gustafson@Shaw's.com
 Address: 101-1 Colton Drive City: Holbrook State: NY Zip: 11741
 Phone: 631 472-4000 Fax: 631 472 4077
 Collected by: (signature) Don P. Davis

Project Info:
 P.O. # 837053
 Project # _____
 Project Name Bolivia Sq. Harbor

Turn Around Time:
 Normal
 Rush
48 hrs specify

Lead Use Only:
 Pressurized by: RD
 Date: 7/18/06
 Pressurization Gas: N₂ He

Lab ID	Field Sample I.D. (Location)	Cont#	Date	Time	Analyses Requested	Initial	Final	Receipt	Final
O1A	BSH-56P-45 (8')	14005	7/18/06	1423-1527	TO-15 SEM (TCE, PCE, TCA)	26	1	2.00	5.00
O2A	BSH-56P-45 (4')	93241	7/18/06	1424-1524	TO-15 SEM (TCE, OCP, TCA)	26.5	6	2.00	11
O3A	BSH-56P-44 (8')	23289	7/18/06	1207-1322	TO-15 SEM (TCE, PCE, TCA)	26	3	5.50	11
O4A	BSH-56P-44 (4')	34497	7/18/06	1204-1323	TO-15 SEM (TCE, PCE, TCA)	26	2.5	5.00	11
O5A	BSH-56P-43 (8')	05608	7/18/06	1015-1124	TO-15 SEM (TCE, PCE, TCA)	27	2	4.00	11
O6A	BSH-56P-43 (4')	33792	7/18/06	1013-1131	TO-15 SEM (TCE, PCE, TCA)	26.5	1	4.10	11
O7A	BSH-56P-42 (8')	438	7/18/06	1601-1728	TO-15 SEM (TCE, PCE, TCA)	26.5	1.5	5.00	11
O8A	BSH-56P-42 (4')	20843	7/18/06	1604-1727	TO-15 SEM (TCE, PCE, TCA)	26.5	2	5.00	11
Received by: (signature) <u>Don P. Davis</u> Date/Time <u>7-18-06 17:45</u>						Notes: Need results by 7-24-06			
Received by: (signature) <u>Eric Gustafson</u> Date/Time _____						Notes: _____			
Received by: (signature) _____ Date/Time _____						Notes: _____			

Shipper Name: _____ Air Bill # _____ Temp (°C) 10/14 Condition good Customer Seals Intact? Yes No (None) Work Order # 0607388

APPENDIX E

Residence #1 Soil Vapor Intrusion Analytical Report

WORK ORDER #: 0603660

Work Order Summary

CLIENT: Mr. Erik Gustafson
Shaw Environmental & Infrastructure
101-1 Colin Drive
Holbrook, NY 11741

BILL TO: Mr. Erik Gustafson
Shaw Environmental & Infrastructure
101-1 Colins Drive
Holbrook, NY 11741

PHONE: 631-472-4000 X234

FAX: 631-472-4077

DATE RECEIVED: 03/30/2006

DATE COMPLETED: 04/14/2006

P.O. # 194405

PROJECT # 837053 Bulova-S.H.

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	BSH-110DivST-CS/Base	Modified TO-15 SIM	6.0 "Hg
02A	BSH-110DivST-SS	Modified TO-15 SIM	5.5 "Hg
02AA	BSH-110DivST-SS Duplicate	Modified TO-15 SIM	5.5 "Hg
03A	BSH-110DivST-1st FL	Modified TO-15 SIM	4.5 "Hg
04A	BSH-110DivST-OA	Modified TO-15 SIM	3.5 "Hg
05A	Lab Blank	Modified TO-15 SIM	NA
06A	CCV	Modified TO-15 SIM	NA
07A	LCS	Modified TO-15 SIM	NA

CERTIFIED BY: 

DATE: 04/17/06

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
 Modified TO-15 SIM
 Shaw Environmental & Infrastructure
 Workorder# 0603660**

Four 6 Liter Summa Canister (SIM Certified) samples were received on March 30, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	<=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is <=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is <= 30% Difference with 10% of compounds allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.



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File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: BSH-110DivST-CS/Base

Lab ID#: 0603660-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,1-Trichloroethane	0.034	0.046	0.18	0.25

Client Sample ID: BSH-110DivST-SS

Lab ID#: 0603660-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.038	0.026	0.20
Tetrachloroethene	0.033	0.26	0.22	1.8
1,1,1-Trichloroethane	0.033	0.077	0.18	0.42

Client Sample ID: BSH-110DivST-SS Duplicate

Lab ID#: 0603660-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.037	0.026	0.20
Tetrachloroethene	0.033	0.27	0.22	1.8
1,1,1-Trichloroethane	0.033	0.074	0.18	0.40

Client Sample ID: BSH-110DivST-1st FL

Lab ID#: 0603660-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0047	0.0050	0.025	0.027
Tetrachloroethene	0.032	0.066	0.21	0.45
1,1,1-Trichloroethane	0.032	0.083	0.17	0.45

Client Sample ID: BSH-110DivST-OA

Lab ID#: 0603660-04A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-110DivST-CS/Base

Lab ID#: 0603660-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	00_113119	Date of Collection	1/28/16
File Folder	158	Date of Analysis	1/30/16 10:21 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0050	Not Detected	0.027	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
1,1,1-Trichloroethane	0.034	0.046	0.18	0.25

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	95	70-130



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-110DivST-SS

Lab ID#: 0603660-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	0603660	Date of Calibration	07/27/15
Lab Factor	1.00	Date of Analysis	07/06/15 08:31 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.038	0.026	0.20
Tetrachloroethene	0.033	0.26	0.22	1.8
1,1,1-Trichloroethane	0.033	0.077	0.18	0.42

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	110	70-130



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Client Sample ID: BSH-110DivST-SS Duplicate

Lab ID#: 0603660-02AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	0603660-02AA	Date of Collection	01/29/06
File Path		Date of Analysis	02/06/06 (D-5M)

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.037	0.026	0.20
Tetrachloroethene	0.033	0.27	0.22	1.8
1,1,1-Trichloroethane	0.033	0.074	0.18	0.40

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	98	70-130



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-110DivST-1st FL

Lab ID#: 0603660-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 0603660-03A	Client ID: BSH-110DivST-1st FL	Method: TO-15 GC/MS SIM
Lab ID: 0603660-03A	Lab Name: AIR TOXICS LTD.	Date: 06/03/2010

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0047	0.0050	0.025	0.027
Tetrachloroethene	0.032	0.066	0.21	0.45
1,1,1-Trichloroethane	0.032	0.083	0.17	0.45

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	95	70-130



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-110DivST-OA

Lab ID#: 0603660-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	0603660-04A	Date of Collection	11/23/01
File #	132	Date of Analysis	11/26/01 12:33 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0046	Not Detected	0.024	Not Detected
Tetrachloroethene	0.030	Not Detected	0.21	Not Detected
1,1,1-Trichloroethane	0.030	Not Detected	0.16	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	96	70-130



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0603660-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	Client ID	Date of Collection
C:\Program Files\AirToxics\0603660-05A	0603660-05A	06/03/2006

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0030	Not Detected	0.016	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	102	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0603660-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Peak No.	Retention Time	Peak Name
1	1.10	Trichloroethene
2	1.15	Tetrachloroethene
3	1.20	1,1,1-Trichloroethane

Compound	%Recovery
Trichloroethene	94
Tetrachloroethene	100
1,1,1-Trichloroethane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	94	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0603660-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	0603660-07A	Date of Collection:	NA
File Path:	0603660-07A	Date of Analysis:	11/06/02 4:43 PM

Compound	%Recovery
Trichloroethene	95
Tetrachloroethene	101
1,1,1-Trichloroethane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130



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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Contact Person: Eric Gustafson
 Company: SHORE EXPLORATION INC. Email: _____
 Address: 101-1 Colton Dr. City: Holbrook State: NY Zip: 11741
 Phone: (631) 472-4800 Fax: (631) 472-4027
 Collected by: (Signature) [Signature]

Project Info:
 P.O. #: 194405
 Project #: 837053
 Project Name: Buena-Vista specify _____

Turn Around Time:
 Normal
 Rush

Lab Use Only
 Pressurized by: AD
 Date: 3/31/06
 Pressurization Gas: _____ He _____

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final
OIA	BSH-110 DUST - CS/POST	986	3/28-29	1136-1107	TD-15 SIM (TK, PCE, TOC)	30.0	7.8	6.0	5.0
OIA	BSH-110 DUST - SS	986		1148-1110		30.0	6.3	5.5	
OIA	BSH-110 DUST - 1 st FL	1206		1154-1117		30.0	6.4	5.5	
OIA	BSH-110 DUST - OA	1206		1155-1119		30.0	5.0	3.5	
							OIA: 4.5		

Relinquished by: (signature) [Signature] Date/Time 3/29/06 1430
 Received by: (signature) [Signature] Date/Time 3/30/06 950 Notes: _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____
 Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Lab Use Only: Shipper Name: UPS Air Bill #: 63099313 94134576 Temp (°C): - Condition: good Customer Seals Intact? Yes No None Work Order #: 0603660

APPENDIX F

Business #1 Soil Vapor Intrusion Analytical Report



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0607027

Work Order Summary

CLIENT:	Mr. Erik Gustafson Shaw Environmental & Infrastructure 101-1 Colin Drive Holbrook, NY 11741	BILL TO:	Mr. Erik Gustafson Shaw Environmental & Infrastructure 101-1 Colins Drive Holbrook, NY 11741
PHONE:	631-472-4000 X234	P.O. #	194405
FAX:	631-472-4077	PROJECT #	837053 Bulova S.H.
DATE RECEIVED:	07/01/2006	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/18/2006		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	BSH-25 Wash-Base	Modified TO-15 SIM	5.5 "Hg
02A	BSH-25 Wash-OA	Modified TO-15 SIM	16.0 "Hg
03A	BSH-25 Wash-IA	Modified TO-15 SIM	12.5 "Hg
04A	Lab Blank	Modified TO-15 SIM	NA
05A	CCV	Modified TO-15 SIM	NA
06A	LCS	Modified TO-15 SIM	NA

CERTIFIED BY:

Laboratory Director

DATE: 07/18/06

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 SIM
Shaw Environmental & Infrastructure
Workorder# 0607027

Three 6 Liter Summa Canister (SIM Certified) samples were received on July 01, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	<=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is <=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+ - 30% Difference	Project specific; default criteria is <= 30% Difference with 10% of compounds allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

Sample BSH-25 Wash-OA was received with significant vacuum remaining in the canister. The discrepancy was noted in the Sample Receipt Confirmation email/fax. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.



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- U - Compound analyzed for but not detected above the reporting limit
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



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Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: BSH-25 Wash-Base

Lab ID#: 0607027-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.0082	0.026	0.044

Client Sample ID: BSH-25 Wash-OA

Lab ID#: 0607027-02A

No Detections Were Found.

Client Sample ID: BSH-25 Wash-IA

Lab ID#: 0607027-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0069	0.020	0.037	0.11



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-25 Wash-Base

Lab ID#: 0607027-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	0607027-01A	Date of Collection	07/29/08
Sample Name	BSH-25 Wash-Base	Date of Analysis	7/30/08 09:23:00

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.0082	0.026	0.044
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	105	70-130



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Client Sample ID: BSH-25 Wash-OA

Lab ID#: 0607027-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Lab Name:	0607027	Date of Collection:	6/29/06
Lab #:	02A	Date of Analysis:	7/6/06 08:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0086	Not Detected	0.046	Not Detected
Tetrachloroethene	0.057	Not Detected	0.39	Not Detected
1,1,1-Trichloroethane	0.057	Not Detected	0.31	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	108	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-25 Wash-IA

Lab ID#: 0607027-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 0607027-03A
 Date: 07/20/15
 Method: Calibration: 6/20/15
 Date of Analysis: 7/6/15 (7/16/15)

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0069	0.020	0.037	0.11
Tetrachloroethene	0.046	Not Detected	0.31	Not Detected
1,1,1-Trichloroethane	0.046	Not Detected	0.25	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0607027-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Name	Client Address	Date of Collection
Client Phone	Client City	Date of Analysis

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0030	Not Detected	0.016	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	108	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0607027-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	0607027	Date of Collection	06/01/05
File Path	0607027	Date of Analysis	06/01/05

Compound	%Recovery
Trichloroethene	95
Tetrachloroethene	101
1,1,1-Trichloroethane	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0607027-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Name	0607027	Date of Collection	NA
Client No.	100	Date of Analysis	06/06/03

Compound	%Recovery
Trichloroethene	94
Tetrachloroethene	101
1,1,1-Trichloroethane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130



Sample Transportation Notice

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Contact Person Eric K. Gustafson
 Company SHOW ERI, INC. Email Eric.K.Gustafson@showeri.com
 Address 181-1 Coleridge Pl - City Haltom State TX Zip 77111
 Phone (671) 472-4000 Fax (671) 472-4077
 Collected by: (Signature) [Signature]

Project Info:	Turn Around Time:	Lab Use Only
	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Pressurized by: <u>[Signature]</u> Date: <u>6/30/06</u> Pressurization Gas: <u>He</u>
P.O. # <u>194405</u>		
Project # <u>837053</u>		
Project Name <u>Ex/ova S.H.</u>		

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum			
					Initial	Final	Receipt	Final (psi)
O1A	B5H-25 Wash - Base	6/29/06	0707-1535	TO-15 SIM (TOE, PCE, TCA)	30.0	4.0	5.5	5.0
O2A	B5H-25 Wash - OA	↓	0708-1534	↓	30.0	14.7	16.0	15.0
O3A	B5H-25 Wash - IA	↓	1107-1635	↓	30.0	11.0	12.5	11.0

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6-30-06/1130</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>7/1/06 1135</u>	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>UPS</u>	Air Bill # <u>12 639 973 22 1000 495 8</u>	Temp (°C) <u>NA</u>	Condition <u>GOOD</u>	Custody Seals Intact? <u>Yes No None</u>	Work Order # <u>0607027</u>
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APPENDIX G

Business #2 Soil Vapor Intrusion Analytical Report

WORK ORDER #: 0603661

Work Order Summary

CLIENT: Mr. Erik Gustafson
Shaw Environmental & Infrastructure
101-1 Colin Drive
Holbrook, NY 11741

BILL TO: Mr. Erik Gustafson
Shaw Environmental & Infrastructure
101-1 Colins Drive
Holbrook, NY 11741

PHONE: 631-472-4000 X234
FAX: 631-472-4077
DATE RECEIVED: 03/30/2006
DATE COMPLETED: 04/12/2006

P.O. # 194405
PROJECT # 837053 Bulova-S.H.
CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	BSH-114DivSt-1stFL	Modified TO-15 SIM	5.5 "Hg
02A	BSH-114DivSt-OA	Modified TO-15 SIM	5.5 "Hg
03A	BSH-114DivSt-SS	Modified TO-15 SIM	4.5 "Hg
04A	Lab Blank	Modified TO-15 SIM	NA
05A	CCV	Modified TO-15 SIM	NA
06A	LCS	Modified TO-15 SIM	NA

CERTIFIED BY: 

DATE: 04/12/06

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
 Modified TO-15 SIM
 Shaw Environmental & Infrastructure
 Workorder# 0603661**

Two 6 Liter Summa Canister (SIM Certified) and One 6 Liter Summa Special (SIM Certified) samples were received on March 30, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	<=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is <=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is <= 30% Difference with 10% of compounds allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.



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File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: BSH-114DivSt-1stFL

Lab ID#: 0603661-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.0049	0.026	0.026

Client Sample ID: BSH-114DivSt-OA

Lab ID#: 0603661-02A

No Detections Were Found.

Client Sample ID: BSH-114DivSt-SS

Lab ID#: 0603661-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0047	0.010	0.025	0.056
Tetrachloroethene	0.032	0.091	0.21	0.62



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-114DivSt-1stFL

Lab ID#: 0603661-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	603661-01A	Date of Collection:	02/10/05
File Path:	114	Date of Analysis:	02/06/05 (2 AM)

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	0.0049	0.026	0.026
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130



Client Sample ID: BSH-114DivSt-OA

Lab ID#: 0603661-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	BSH-114	File # Collection:	428005
File Path:	114	File # Analysis:	0603661-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0049	Not Detected	0.026	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-114DivSt-SS

Lab ID#: 0603661-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 0603661-03A	Sample Collection: 02/28/05
File Path: C:\Data	Date of Analysis: 02/08/05 08:21 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0047	0.010	0.025	0.056
Tetrachloroethene	0.032	0.091	0.21	0.62
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0603661-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	0603661-04A	Date of Collection:	07/06/2010
File Location:	0100	Date of Analysis:	07/06/2010

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0030	Not Detected	0.016	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	120	70-130
4-Bromofluorobenzene	121	70-130



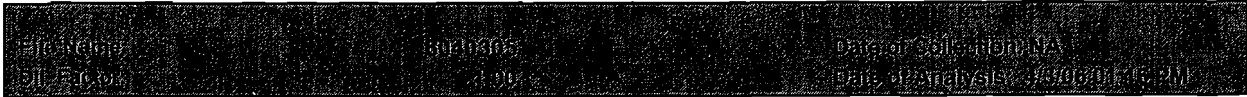
AIR TOXICS LTD.

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Client Sample ID: CCV

Lab ID#: 0603661-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM



Compound	%Recovery
Trichloroethene	95
Tetrachloroethene	94
1,1,1-Trichloroethane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0603661-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Name	0603661-06A	Date of Collection	NA
Client Address	0603661-06A	Date of Analysis	06/03/2006

Compound	%Recovery
Trichloroethene	94
Tetrachloroethene	97
1,1,1-Trichloroethane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130



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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Contact Person: Erik Gustafsson
 Company: Shaw ERI, INC. Email: _____
 Address: 101-1 Colindale City, Holbrook State: NY Zip: 11741
 Phone: (631) 472-4000 Fax: (631) 472-4077
 Collected by: (Signature) Erik Gustafsson

Project Info:	Turn Around Time:	Lab Use Only:
P.O. # <u>194405</u>	<input checked="" type="checkbox"/> Normal	Pressurized by: <u>[Signature]</u>
Project # <u>837053</u>	<input type="checkbox"/> Rush	Date: <u>3/31/06</u>
Project Name <u>Balboa-S.H.</u>	specify _____	Pressurization Gas: <u>N₂</u> He _____

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final (psi)
<u>DLA</u>	<u>B5H-114 DIV ST - 1" FL</u>	<u>34973</u>	<u>3/28/06</u>	<u>0852-1700</u>	<u>TO-15 SEM (TCE, PCE, TOA)</u>	<u>82.0</u>	<u>8.0</u>	<u>5.5</u>	<u>5.0</u>
<u>DLA</u>	<u>B5H-114 DIV ST - OA</u>	<u>12996</u>	<u>↓</u>	<u>0854-1701</u>	<u>↓</u>	<u>82.0</u>	<u>8.0</u>	<u>5.5</u>	<u>5.0</u>
<u>DLA</u>	<u>B5H-114 DIV ST - SS</u>	<u>4171</u>	<u>↓</u>	<u>0904-1705</u>	<u>↓</u>	<u>80.0</u>	<u>7.0</u>	<u>4.5</u>	<u>5.0</u>

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>3/29/06 1440</u>	Received by: (signature) <u>[Signature]</u> Date/Time <u>3/30/06 950</u>	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name <u>UPS</u>	Air Bill # <u>63V 993 13 94134516</u>	Temp (°C) <u>-</u>	Condition <u>good</u>	Customer Seals Intact? <u>Yes No None</u>	Work Order # <u>0603661</u>
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APPENDIX H

Business #4 Soil Vapor Intrusion Analytical Report



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0603659

Work Order Summary

CLIENT:	Mr. Erik Gustafson Shaw Environmental & Infrastructure 101-1 Colin Drive Holbrook, NY 11741	BILL TO:	Mr. Erik Gustafson Shaw Environmental & Infrastructure 101-1 Colins Drive Holbrook, NY 11741
PHONE:	631-472-4000 X234	P.O. #	194405
FAX:	631-472-4077	PROJECT #	837053 Bulova S.H.
DATE RECEIVED:	03/30/2006	CONTACT:	Kelly Buettner
DATE COMPLETED:	04/12/2006		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	BSH-FM-OA	Modified TO-15 SIM	5.0 "Hg
02A	BSH-FM-CS	Modified TO-15 SIM	4.0 "Hg
03A	BSH-FM-1st Fl.	Modified TO-15 SIM	4.5 "Hg
04A	Lab Blank	Modified TO-15 SIM	NA
05A	CCV	Modified TO-15 SIM	NA
06A	LCS	Modified TO-15 SIM	NA

CERTIFIED BY:

Laboratory Director

DATE: 04/12/06

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
 Modified TO-15 SIM
 Shaw Environmental & Infrastructure
 Workorder# 0603659**

Three 6 Liter Summa Special (SIM Certified) samples were received on March 30, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	<=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is <=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is <= 30% Difference with 10% of compounds allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: BSH-FM-OA

Lab ID#: 0603659-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0048	0.023	0.026	0.12
Tetrachloroethene	0.032	0.056	0.22	0.38

Client Sample ID: BSH-FM-CS

Lab ID#: 0603659-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0046	0.0060	0.025	0.032

Client Sample ID: BSH-FM-1st Fl.

Lab ID#: 0603659-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0047	0.0068	0.025	0.036



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Client Sample ID: BSH-FM-OA

Lab ID#: 0603659-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Site Name	6030325	Date of Collection	1/23/05
Site Address	81	Date of Analysis	0603659-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0048	0.023	0.026	0.12
Tetrachloroethene	0.032	0.056	0.22	0.38
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-FM-CS

Lab ID#: 0603659-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Name	06/18/20	Date of Collection	02/11/05
Bill Factor	1.00	Date of Analysis	02/06/07 (06/20)

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0046	0.0060	0.025	0.032
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-FM-1st Fl.

Lab ID#: 0603659-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	0603659-03A	Date of Collection:	3/21/06
File Path:	0603659-03A	Lab ID#:	0603659-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0047	0.0068	0.025	0.036
Tetrachloroethene	0.032	Not Detected	0.21	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected

Container Type: 6 Liter Summa Special (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	115	70-130
4-Bromofluorobenzene	98	70-130



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0603659-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
----------	-------------------	---------------	--------------------	----------------

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0030	Not Detected	0.016	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	120	70-130
4-Bromofluorobenzene	121	70-130



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0603659-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	0603659-05A	Date of Collection	NA
Lab #	0603659-05A	Date of Analysis	NA

Compound	%Recovery
Trichloroethene	95
Tetrachloroethene	94
1,1,1-Trichloroethane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130



Client Sample ID: LCS

Lab ID#: 0603659-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM



Compound	%Recovery
Trichloroethene	94
Tetrachloroethene	97
1,1,1-Trichloroethane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Contact Person Erik Gustafson
 Company SHOW ERV, INC. Email Erik.Gustafson@showerv.com
 Address 101-1 COLINA, City Haverhill State NY Zip 11741
 Phone (631) 472-4000 Fax (631) 472-4077
 Collected by: (Signature) Erik Gustafson

Project Info:	Turn Around Time:	Lab Use Only:
P.O. # <u>194405</u>	<input checked="" type="checkbox"/> Normal	Pressurized by: <u>BS</u>
Project # <u>837053</u>	<input type="checkbox"/> Rush	Date: <u>3/30/06</u>
Project Name <u>Belova S.H.</u>		Pressurization Gas: <u>N₂</u>

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum			
						Initial	Final	Receipt	Final
<u>01A</u>	<u>BSH-FM-0A</u>	<u>9405</u>	<u>3/28/06</u>	<u>0800-1607</u>	<u>TD-15 SIM (TCE, PCE, TCA)</u>	<u>30.0</u>	<u>7.75</u>	<u>5.0</u>	<u>5.0</u>
<u>01A</u>	<u>BSH-FM-CS</u>	<u>9558</u>	<u>↓</u>	<u>0805-1608</u>	<u>↓</u>	<u>30.0</u>	<u>7.0</u>	<u>4.0</u>	<u>↓</u>
<u>01A</u>	<u>BSH-FM-1st Fl.</u>	<u>9558</u>	<u>↓</u>	<u>0805-1610</u>	<u>↓</u>	<u>30.0</u>	<u>6.75</u>	<u>4.5</u>	<u>↓</u>

Relinquished by: (signature) <u>Erik Gustafson</u> Date/Time <u>3/29/06 15:00</u>	Received by: (signature) <u>CM</u> Date/Time <u>3/30/06 7:00</u>	Notes: <u>AD 3/30/06 7:00</u>
Relinquished by: (signature)	Received by: (signature)	
Relinquished by: (signature)	Received by: (signature)	

Lab Use Only	Shipper Name <u>VPS</u>	Air Bill # <u>63V 94313 9413 452L</u>	Temp (°C) <u>-</u>	Condition <u>good</u>	Customer Seals Intact? <u>Yes No None</u>	Work Order # <u>060365</u>
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APPENDIX I

Business #5 Soil Vapor Intrusion Analytical Report

WORK ORDER #: 0607026

Work Order Summary

CLIENT: Mr. Erik Gustafson
Shaw Environmental & Infrastructure
101-1 Colin Drive
Holbrook, NY 11741

BILL TO: Mr. Erik Gustafson
Shaw Environmental & Infrastructure
101-1 Colins Drive
Holbrook, NY 11741

PHONE: 631-472-4000 X234

FAX: 631-472-4077

DATE RECEIVED: 07/01/2006

DATE COMPLETED: 07/18/2006

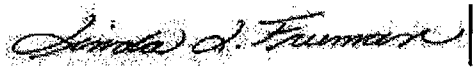
P.O. # 194405

PROJECT # 837053 Bulova S.H.

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	BSH-75 Wash-OA	Modified TO-15 SIM	7.5 "Hg
02A	BSH-75 Wash-1st FL	Modified TO-15 SIM	6.5 "Hg
03A	BSH-75 Wash-Base	Modified TO-15 SIM	0.0 "Hg
03AA	BSH-75 Wash-Base Duplicate	Modified TO-15 SIM	0.0 "Hg
04A	BSH-75 Wash-SS	Modified TO-15 SIM	6.0 "Hg
05A	Lab Blank	Modified TO-15 SIM	NA
06A	CCV	Modified TO-15 SIM	NA
07A	LCS	Modified TO-15 SIM	NA

CERTIFIED BY:



Laboratory Director

DATE: 07/18/06

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
Shaw Environmental & Infrastructure
Workorder# 0607026

Four 6 Liter Summa Canister (SIM Certified) samples were received on July 01, 2006. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD
Daily Calibration	+/- 30% Difference	Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.



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File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: BSH-75 Wash-OA

Lab ID#: 0607026-01A

No Detections Were Found.

Client Sample ID: BSH-75 Wash-1st FL

Lab ID#: 0607026-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0051	0.0058	0.028	0.031
Tetrachloroethene	0.034	0.045	0.23	0.31

Client Sample ID: BSH-75 Wash-Base

Lab ID#: 0607026-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0040	0.0062	0.022	0.033
Tetrachloroethene	0.027	0.091	0.18	0.62

Client Sample ID: BSH-75 Wash-Base Duplicate

Lab ID#: 0607026-03AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0040	0.0069	0.022	0.037
Tetrachloroethene	0.027	0.089	0.18	0.60

Client Sample ID: BSH-75 Wash-SS

Lab ID#: 0607026-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0050	0.021	0.027	0.11
Tetrachloroethene	0.034	0.14	0.23	0.92
1,1,1-Trichloroethane	0.034	0.14	0.18	0.76



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-75 Wash-OA

Lab ID#: 0607026-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 0607026	607026	Date of Collection: 3/29/05
File Path: 0607026	0.2	Date of Analysis: 7/06/05 11:21

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0054	Not Detected	0.029	Not Detected
Tetrachloroethene	0.036	Not Detected	0.24	Not Detected
1,1,1-Trichloroethane	0.036	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	115	70-130



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-75 Wash-1st FL

Lab ID#: 0607026-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 0607026	Date of Collection: 06/06/06
File Path: \\	Date of Analysis: 7/6/06 02:48:30

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0051	0.0058	0.028	0.031
Tetrachloroethene	0.034	0.045	0.23	0.31
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	112	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-75 Wash-Base

Lab ID#: 0607026-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	0607026-03A	Date of Collection:	07/20/09
Lab Ref:	03A	Date of Analysis:	08/03/09 08:31:11

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0040	0.0062	0.022	0.033
Tetrachloroethene	0.027	0.091	0.18	0.62
1,1,1-Trichloroethane	0.027	Not Detected	0.15	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	119	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-75 Wash-Base Duplicate

Lab ID#: 0607026-03AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
----------	-------------------	---------------	--------------------	----------------

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0040	0.0069	0.022	0.037
Tetrachloroethene	0.027	0.089	0.18	0.60
1,1,1-Trichloroethane	0.027	Not Detected	0.15	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	114	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BSH-75 Wash-SS

Lab ID#: 0607026-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	Amount	Date of Collection
File Name	Amount	Date of Analysis

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0050	0.021	0.027	0.11
Tetrachloroethene	0.034	0.14	0.23	0.92
1,1,1-Trichloroethane	0.034	0.14	0.18	0.76

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	111	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0607026-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

Method	0607026-05A	Date of Collection	NA
Lab ID#	0607026-05A	Date of Analysis	7/6/08 (2:00 PM)

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.0030	Not Detected	0.016	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	108	70-130



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0607026-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name	0607026-06A	Date of Collection	7/10/06
Off. Page	001	Date of Analysis	7/10/06

Compound	%Recovery
Trichloroethene	95
Tetrachloroethene	101
1,1,1-Trichloroethane	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: LCS

Lab ID#: 0607026-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name: 060702607A.D
 File Path: C:\Data\0607026-07A\060702607A.D
 Data Generated: 2/20/2007 10:00:00 AM

Compound	%Recovery
Trichloroethene	94
Tetrachloroethene	101
1,1,1-Trichloroethane	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130



Sample Transportation Notice

Sample Transportation Notice... The purpose of this notice is to advise you of the requirements for the safe and secure transport of hazardous materials...

150 BLUE RAYNE ROAD, SUITE B
FTI SPRING, PA 87000-4718
(910) 885-1000 FAX (910) 885-1020

CHAIN-OF-CUSTODY RECORD

Project Name: Lock Construction
Company: Shaw F.H.C. Inc.
Address: 1111 S. 1st St. Ft. Worth, TX 76102
Phone: (817) 472-4600
Collector: John J. [unclear]

Project Info: 194425
257825
Boiler S.H.
Turn Around Time: On Off
Prioritized: Yes No
Date: 7/1/95
Project Manager: [unclear]

Lab #	Field Sample I.D. (Location)	Date	Time	Analytes Requested	Container Exposure/Vacuum			
					NM	PM	SO ₂	CO
011	PSN-75 W/24-9A	7/2/95	0751-1600	TS-15 Si.m. (TSP, TSP, TSP)	78.0	7.7	0.0	0.0
012	PSN-77 W/24-9A	7/2/95	0758-1430	↓	50.2	7.0	0.0	0.0
013	PSN-75 W/24-9A	7/2/95	0905-1745		73.6	2.0	0.0	0.0
014	PSN-79 W/24-9A	7/2/95	0907-1812		75.0	2.5	0.0	0.0

Handed to: John J. [unclear] Date: 7/2/95 Time: 1300
Signature: [Signature]
Received by: [Signature] Date: 7/1/95 Time: 1430
Signature: [Signature]
Temperature: 75 Condition: Good
Substrate: Yes No. None Date: 0607026

APPENDIX J

Offsite Groundwater Analytical Report

**DATA PACKAGE FOR
VOLATILE ORGANICS****PROJECT NAME: Bulova Sag Harbor****SHAW E & I, INC.
101-1 COLIN DRIVE
HOLBROOK, NY 11741
6314724000****CHEMTECH PROJECT NO.
ATTENTION:****X4423
Erik Gustafson**



CASE NARRATIVE

Shaw E & I, Inc.
Project Name: Bulova Sag Harbor
Project # N/A
Chemtech Project # X4423

A. Number of Samples and Date of Receipt:

13 Water samples were received on 9/7/06.

B. Parameters

According to the Chain of Custody document, the following analyses were requested:
TCL Volatiles + 10. This data package contains results for TCL Volatiles + 10.

C. Analytical Techniques:

The analysis performed on instrument MSVOA F were done using GC column RTX624, which is 75 meters, 0.53 ID, 3.0 df, Restek Cat. #10974. The Trap was supplied by Supelco, VOCARB 3000, Tekmar 2000 Concentrator.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for VLCS01 and VLCS02.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis indicated presence of Acetone (6.6 ug/L) for the datafile VF003932.D and Acetone (11 ug/L); 2- Butanone(3.1 ug/L) in the datafile VF003943.D due to possible lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred Reyes Name: Mildred Reyes

Date: 9/21/06 Title: QA/QC

COVER PAGE

OrderID: X4423

ProjectID: Bulova Sag Harbor
CustomerName: Shaw E & I, Inc.

LAB SAMPLE NO.	CLIENT SAMPLE NO
X4423-01	BSH-GP-3(46-48)
X4423-02	BSH-GP-3(26-28)
X4423-03	BSH-GP-3(16-18)
X4423-04	BSH-GP-3(7-9)
X4423-05	BSH-GP-2(50-52)
X4423-06	BSH-GP-2(30-32)
X4423-07	BSH-GP-2(20-22)
X4423-08	BSH-GP-2(11-13)
X4423-09	BSH-GP-1(58-60)
X4423-10	BSH-GP-1(38-40)
X4423-11	BSH-GP-1(28-30)
X4423-12	BSH-GP-1(18-20)
X4423-13	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred Vheys Name: Mildred Vheys
Date: 9/21/06 Title: QA/QC

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

CHEMTECH

VOLATILES

DATA

CHEMTECH

VOLATILES

QC

DATA

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Chemtech Contract: SHAW03Lab Code: CHEM CASE No.: X4423 SAS No.: X4423 SDG NO.: X4423

	EPA Sample NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	SMC4	TOT OUT
01	VBLK01	96	96	97		0
02	BSH-GP-3(46-48)	103	101	105		0
03	TRIPBLANK	95	98	97		0
04	BSH-GP-3(26-28)	92	91	93		0
05	BSH-GP-3(16-18)	99	96	99		0
06	BSH-GP-3(7-9)	104	94	104		0
07	VLCS01	42 *	40 *	40 *		3
08	VLCS02	39 *	37 *	38 *		3
09	VBLK02	102	95	98		0
10	BSH-GP-2(50-52)	101	90	95		0
11	BSH-GP-2(30-32)	104	92	96		0
12	BSH-GP-2(20-22)	109	101	103		0
13	BSH-GP-2(11-13)	108	96	99		0
14	BSH-GP-1(58-60)	107	94	101		0
15	BSH-GP-1(38-40)	102	94	97		0
16	BSH-GP-1(28-30)	103	93	97		0
17	BSH-GP-1(18-20)	113	92	104		0
18	VLCS03	110	97	104		0
19	VLCS04	106	99	106		0

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4 (76-114)
 SMC2 (TOL) = Toluene-d8 (88-110)
 SMC3 (BFB) = 4-Bromofluorobenzene (86-115)

Column to be used to flag recovery values
 * Values outside of contract required QC Limits

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech Contract: SHAW03Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423Laboratory Control Spike - EPA Sample No: VLCS01

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
1,1-Dichloroethene	20		19	95	(70-145)
Benzene	20		19	95	(70-127)
Trichloroethene	20		18	90	(70-120)
Toluene	20		18	90	(70-125)
Chlorobenzene	20		18	90	(70-130)

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

Comments: _____

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE-RECOVERY

Lab Name: Chemtech Contract: SHAW03Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423Laboratory Control Spike - EPA Sample No: VLCS02

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
1,1-Dichloroethene	20		14	70	(70-145)
Benzene	20		18	90	(70-127)
Trichloroethene	20		17	85	(70-120)
Toluene	20		17	85	(70-125)
Chlorobenzene	20		19	95	(70-130)

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

Comments: _____

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech Contract: SHAW03Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423Laboratory Control Spike - EPA Sample No: VLCS03

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
1,1-Dichloroethene	20		20	100	(70-145)
Benzene	20		20	100	(70-127)
Trichloroethene	20		19	95	(70-120)
Toluene	20		20	100	(70-125)
Chlorobenzene	20		21	105	(70-130)

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

Comments: _____

WATER VOLATILE LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech Contract: SHAW03Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423Laboratory Control Spike - EPA Sample No: VLCS04

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
1,1-Dichloroethene	20		18	90	(70-145)
Benzene	20		19	95	(70-127)
Trichloroethene	20		17	85	(70-120)
Toluene	20		19	95	(70-125)
Chlorobenzene	20		20	100	(70-130)

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limits

Comments: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG NO.: X4423

Lab File ID: VF003932.D Lab Sample ID: VBFO909W2

Date Analyzed: 9/9/2006 Time Analyzed: 22:20

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOAF

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
BSH-GP-3(46-48)	X4423-01	VF003933.D	22:59
TRIPBLANK	X4423-13	VF003934.D	23:38
BSH-GP-3(26-28)	X4423-02	VF003935.D	00:17
BSH-GP-3(16-18)	X4423-03	VF003936.D	00:56
BSH-GP-3(7-9)	X4423-04	VF003937.D	01:34
VLCS01	BSF0909W1	VF003938.D	02:13
VLCS02	BSF0909W2	VF003939.D	02:52

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: Chentech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG NO.: X4423

Lab File ID: VF003943.D Lab Sample ID: VBF0911W2

Date Analyzed: 9/11/2006 Time Analyzed: 13:36

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOAF

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
BSH-GP-2 (50-52)	X4423-05	VF003944.D	14:17
BSH-GP-2 (30-32)	X4423-06	VF003945.D	14:56
BSH-GP-2 (20-22)	X4423-07	VF003946.D	15:35
BSH-GP-2 (11-13)	X4423-08	VF003947.D	16:13
BSH-GP-1 (58-60)	X4423-09	VF003948.D	16:52
BSH-GP-1 (38-40)	X4423-10	VF003949.D	17:31
BSH-GP-1 (28-30)	X4423-11	VF003950.D	18:10
BSH-GP-1 (18-20)	X4423-12	VF003951.D	18:49
VLC03	BSF0911W2	VF003953.D	20:07
VLC04	BSF0911W3	VF003954.D	20:46

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG NO.: X4423
 Lab File ID: VF003924.D BFB Injection Date: 9/9/2006
 Instrument ID: MSVOAF BFB Injection Time: 17:10
 GC Column: RTX624 ID: 0.53 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.6
75	30.0 - 66.0% of mass 95	45.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 120.0% of mass 95	74.3
175	4.0 - 9.0% of mass 174	5.8 (7.8) 1
176	93.0 - 101.0% of mass 174	72.5 (97.0) 1
177	5.0 - 9.0% of mass 176	4.6 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	10 PPB ICC	VF003925.D	9/9/2006	17:48
VSTD020	20 PPB ICC	VF003926.D	9/9/2006	18:27
VSTD050	50 PPB ICC	VF003927.D	9/9/2006	19:06
VSTD100	100 PPB ICC	VF003928.D	9/9/2006	19:44
VSTD200	200 PPB ICC	VF003929.D	9/9/2006	20:23
VELK01	VBF0909W2	VF003932.D	9/9/2006	22:20
BSH-GP-3(46-48)	X4423-01	VF003933.D	9/9/2006	22:59
TRIPBLANK	X4423-13	VF003934.D	9/9/2006	23:38
BSH-GP-3(26-28)	X4423-02	VF003935.D	9/10/2006	00:17
BSH-GP-3(16-18)	X4423-03	VF003936.D	9/10/2006	00:56
BSH-GP-3(7-9)	X4423-04	VF003937.D	9/10/2006	01:34
VLCS01	BSF0909W1	VF003938.D	9/10/2006	02:13
VLCS02	BSF0909W2	VF003939.D	9/10/2006	02:52

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG NO.: X4423
 Lab File ID: VF003940.D BFB Injection Date: 9/11/2006
 Instrument ID: MSVOAF BFB Injection Time: 11:26
 GC Column: RTX624 ID: 0.53 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.2
75	30.0 - 66.0% of mass 95	44.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.2 (0.2) 1
174	50.0 - 120.0% of mass 95	80.4
175	4.0 - 9.0% of mass 174	5.6 (7.0) 1
176	93.0 - 101.0% of mass 174	79.0 (98.2) 1
177	5.0 - 9.0% of mass 176	5.6 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD050	50 PPB CCC	VF003941.D	9/11/2006	12:04
VBLK02	VBF0911W2	VF003943.D	9/11/2006	13:36
BSH-GP-2(50-52)	X4423-05	VF003944.D	9/11/2006	14:17
BSH-GP-2(30-32)	X4423-06	VF003945.D	9/11/2006	14:56
BSH-GP-2(20-22)	X4423-07	VF003946.D	9/11/2006	15:35
BSH-GP-2(11-13)	X4423-08	VF003947.D	9/11/2006	16:13
BSH-GP-1(58-60)	X4423-09	VF003948.D	9/11/2006	16:52
BSH-GP-1(38-40)	X4423-10	VF003949.D	9/11/2006	17:31
BSH-GP-1(28-30)	X4423-11	VF003950.D	9/11/2006	18:10
BSH-GP-1(18-20)	X4423-12	VF003951.D	9/11/2006	18:49
VLCS03	BSF0911W2	VF003953.D	9/11/2006	20:07
VLCS04	BSF0911W3	VF003954.D	9/11/2006	20:46

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chentech Contract SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Lab File ID: VF003941.D Date Analyzed: 9/11/2006
 Instrument ID: MSVOAF Time Analyzed: 12:04
 GC Column: RTX624 ID: 0.5 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	383755	7.43	1919403	9.39	1791772	15.36
UPPER LIMIT	767510	7.93	3838806	9.89	3583544	15.86
LOWER LIMIT	191878	6.93	959702	8.89	895886	14.86
SAMPLE NO.						
VBLK02	355087	7.44	1881428	9.39	1772056	15.36
BSH-GP-2 (50-52)	335025	7.43	1746634	9.39	1626068	15.35
BSH-GP-2 (30-32)	300905	7.44	1498003	9.39	1456345	15.38
BSH-GP-2 (20-22)	205504	7.44	1170211	9.39	1060620	15.36
BSH-GP-2 (11-13)	323568	7.42	1666219	9.40	1580491	15.37
BSH-GP-1 (58-60)	310198	7.43	1544633	9.39	1493076	15.37
BSH-GP-1 (38-40)	323195	7.44	1589996	9.39	1499255	15.36
BSH-GP-1 (28-30)	313553	7.43	1591397	9.40	1485852	15.36
BSH-GP-1 (18-20)	277780	7.43	1297741	9.40	1305908	15.36
VLCS03	305487	7.43	1591303	9.39	1492206	15.35
VLCS04	301705	7.44	1511750	9.39	1423183	15.36

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Chemtech Contract SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Lab File ID: VF003927.D Date Analyzed: 9/9/2006
 Instrument ID: MSVOAF Time Analyzed: 19:06
 GC Column: RTX624 ID: 0.5 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	318510	7.41	1604947	9.36	1569330	15.34
UPPER LIMIT	637020	7.91	3209894	9.86	3138660	15.84
LOWER LIMIT	159255	6.91	802474	8.86	784665	14.84
SAMPLE NO.						
VBLK01	366949	7.40	1761482	9.36	1747948	15.33
BSH-GP-3(46-48)	326630	7.41	1465550	9.37	1493400	15.33
TRIPBLANK	197476	7.41	1045219	9.37	1008113	15.33
BSH-GP-3(26-28)	354121	7.40	1725977	9.36	1681671	15.33
BSH-GP-3(16-18)	323176	7.41	1500560	9.37	1525947	15.33
BSH-GP-3(7-9)	292768	7.40	1226589	9.36	1312004	15.33
VLCS01	326271	7.40	1637076	9.36	1592031	15.33
VLCS02	321819	7.40	1539692	9.37	1537961	15.33

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

CHEMTECH

VOLATILES
SAMPLE
DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-3 (46-48)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003933.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/9/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		4.4	JB
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-3(46-48)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003933.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/9/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-3(46-48)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-01

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003933.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/9/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003933.D
 Acq On : 9 Sep 2006 22:59
 Operator : SD
 Sample : X4423-01.
 Misc : 5mL
 ALS Vial : 12 Sample Multiplier: 1

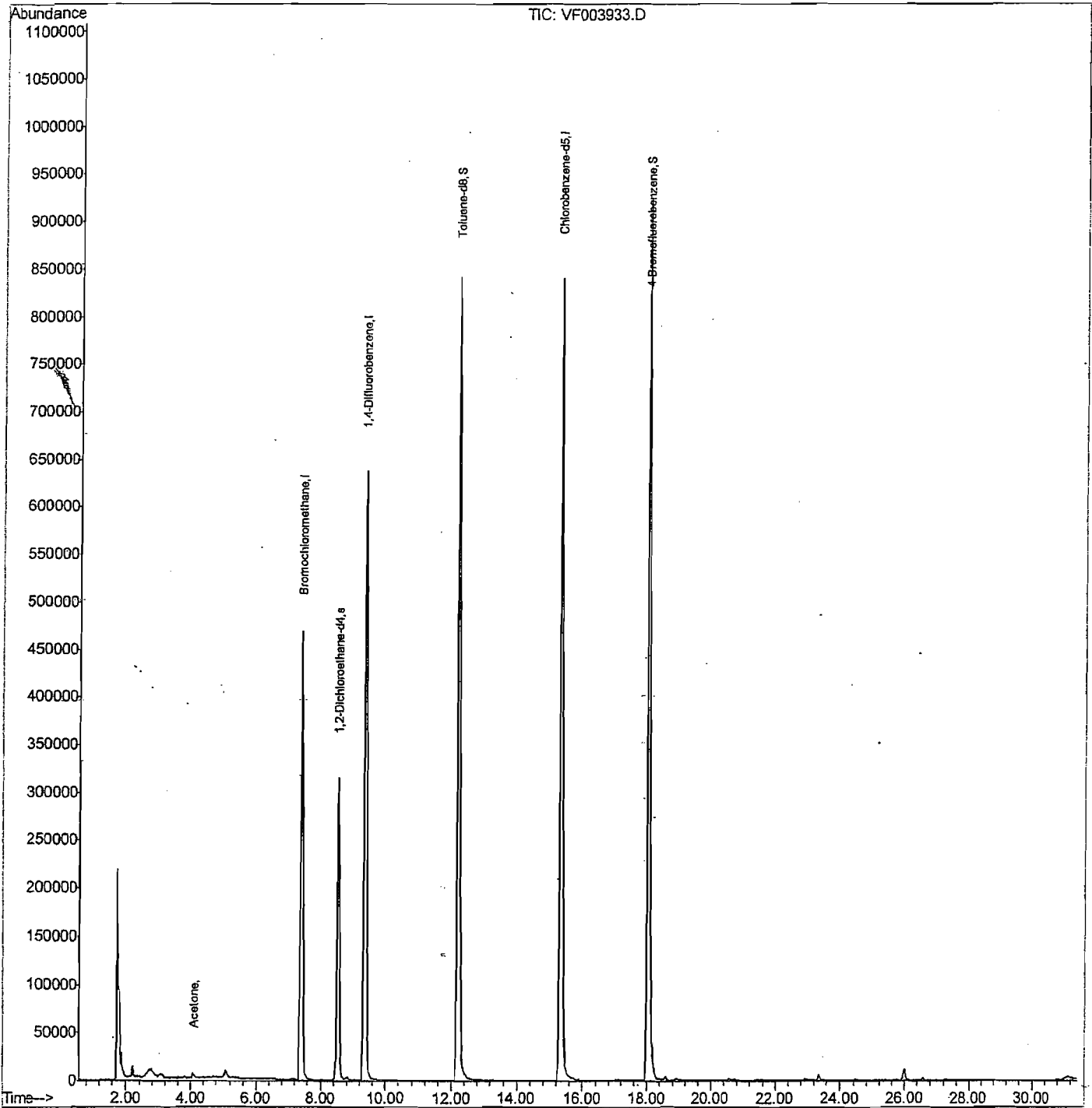
Quant Time: Sep 11 11:38:44 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 Last Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

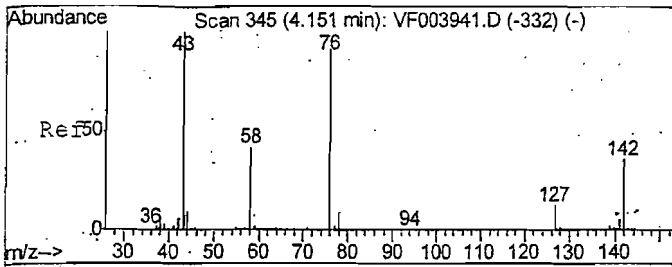
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	7.41	128	326630	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.37	114	1465550	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1493400	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.53	65	514056	51.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.72%	
40) 4-Bromofluorobenzene	18.04	95	1099719	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
43) Toluene-d8	12.20	98	1718684	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
Target Compounds						
10) Acetone	4.09	43	8398	4.38	ug/l #	84

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

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003933.D
Acq On : 9 Sep 2006 22:59
Operator : SD
Sample : X4423-01
Misc : 5mL
ALS Vial : 12 Sample Multiplier: 1

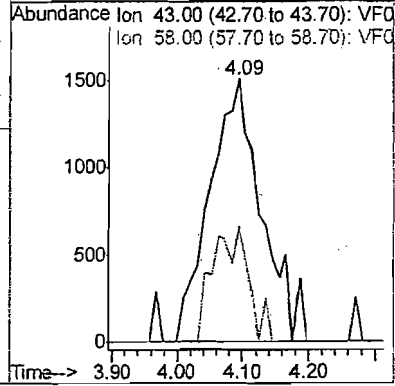
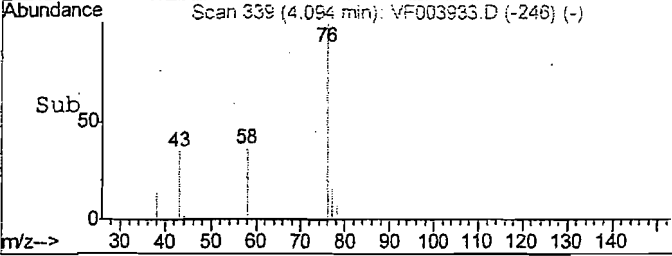
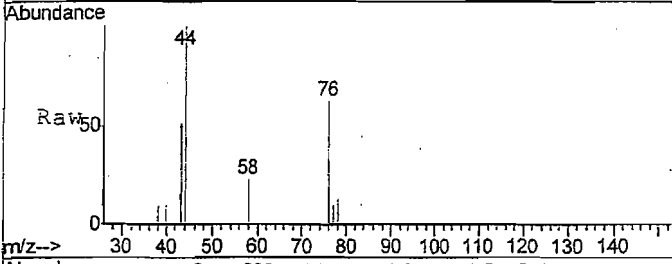
Quant Time: Sep 11 11:38:44 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 10:32:24 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D





#10
 Acetone
 Concen: 4.38 ug/l
 RT: 4.09 min Scan# 339
 Delta R.T. -0.03 min
 Lab File: VF003933.D
 Acq: 9 Sep 2006 22:59

Tgt Ion: 43 Resp: 8398
 Ion Ratio Lower Upper
 43 100
 58 31.1 32.8 49.2#



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003933.D
 Acq On : 9 Sep 2006 22:59
 Operator : SD
 Sample : X4423-01
 Misc : 5mL
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.728	102	114	125	rBV2	219042	751663	15.67%	3.528%
2	7.396	640	654	676	rBV	467866	2240930	46.71%	10.518%
3	8.530	749	762	779	rBV2	314698	1554676	32.41%	7.297%
4	9.356	828	841	867	rBV	637110	3299793	68.79%	15.488%
5	12.211	1100	1113	1140	rBV	841234	4434990	92.45%	20.816%
6	15.831	1398	1411	1435	rBV	840341	4226870	88.11%	19.839%
7	18.041	1652	1669	1696	rBV	923021	4797122	100.00%	22.515%

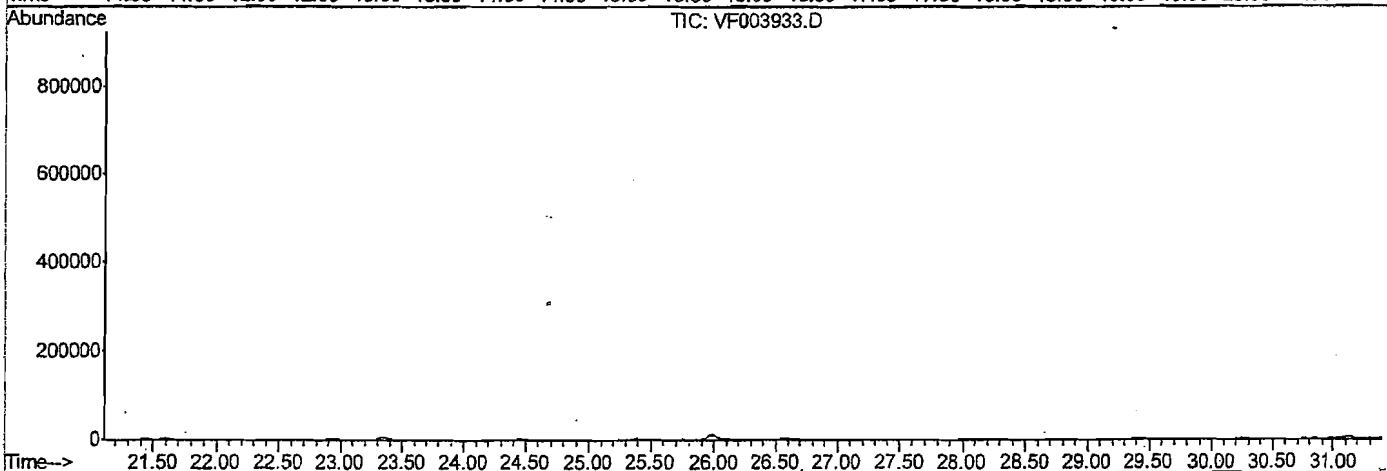
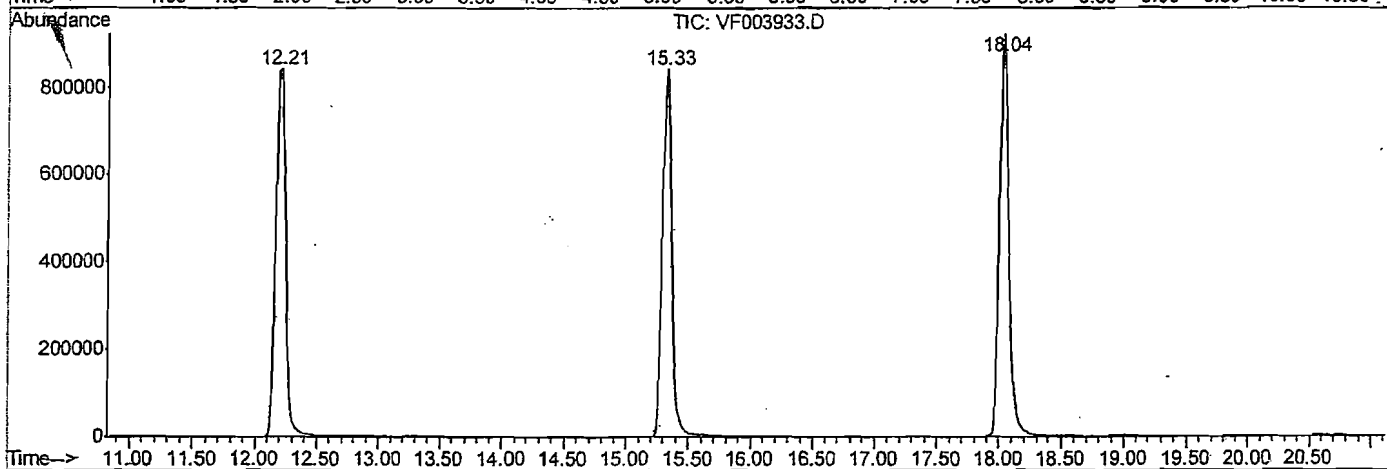
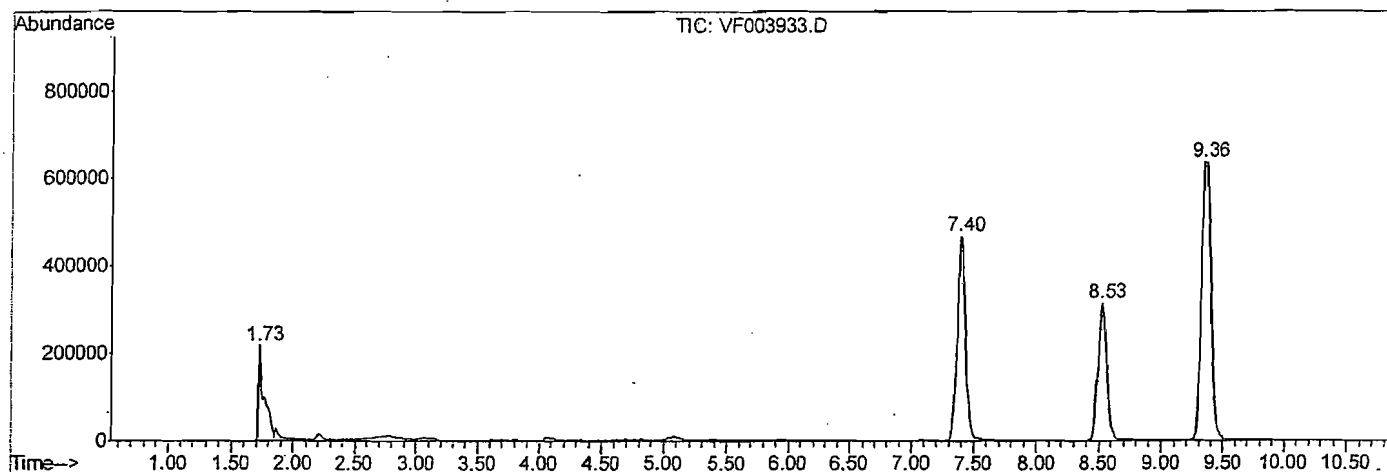
Sum of corrected areas: 21306044

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003933.D
Acq On : 9 Sep 2006 22:59
Operator : SD
Sample : X4423-01
Misc : 5mL
ALS Vial : 12 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentativälbrädnstestad Compound Resultsummary

DåaaaPåhh::ZZ\NRESEEMIMESVQAFFDAAA\VF0909066\
DåaaaFfilæ::VFF009933DD
AäqQOfn :: 99Säpp20066 222599
Oppesåtor ::SBD
Såmpåe ::XX4223001
Måsec ::5mL
AÄSVVåål ::122 SåmpåeMåiipåer:11

QQuantMåshdd::TT\NRESEEMIMESVQAFFMEERDQF0909066BFWMM
QQuantTfilæ ::

TTCLLibbary ::CC\DATA\SEENSS02LL
TTCLInbegråtionnPåesåetess:REENTTP

|---Internal Standard---|

TIC Top Hit name RT EstConc Units Response|# RT Resp Conc|

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-3 (26-28)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003935.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		5.9	JB
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		1.6	J
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-3(26-28)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003935.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-3 (26-28)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-02

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003935.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/10/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003935.D
 Acq On : 10 Sep 2006 00:17
 Operator : SD
 Sample : X4423-02
 Misc : 5mL
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 11:44:09 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

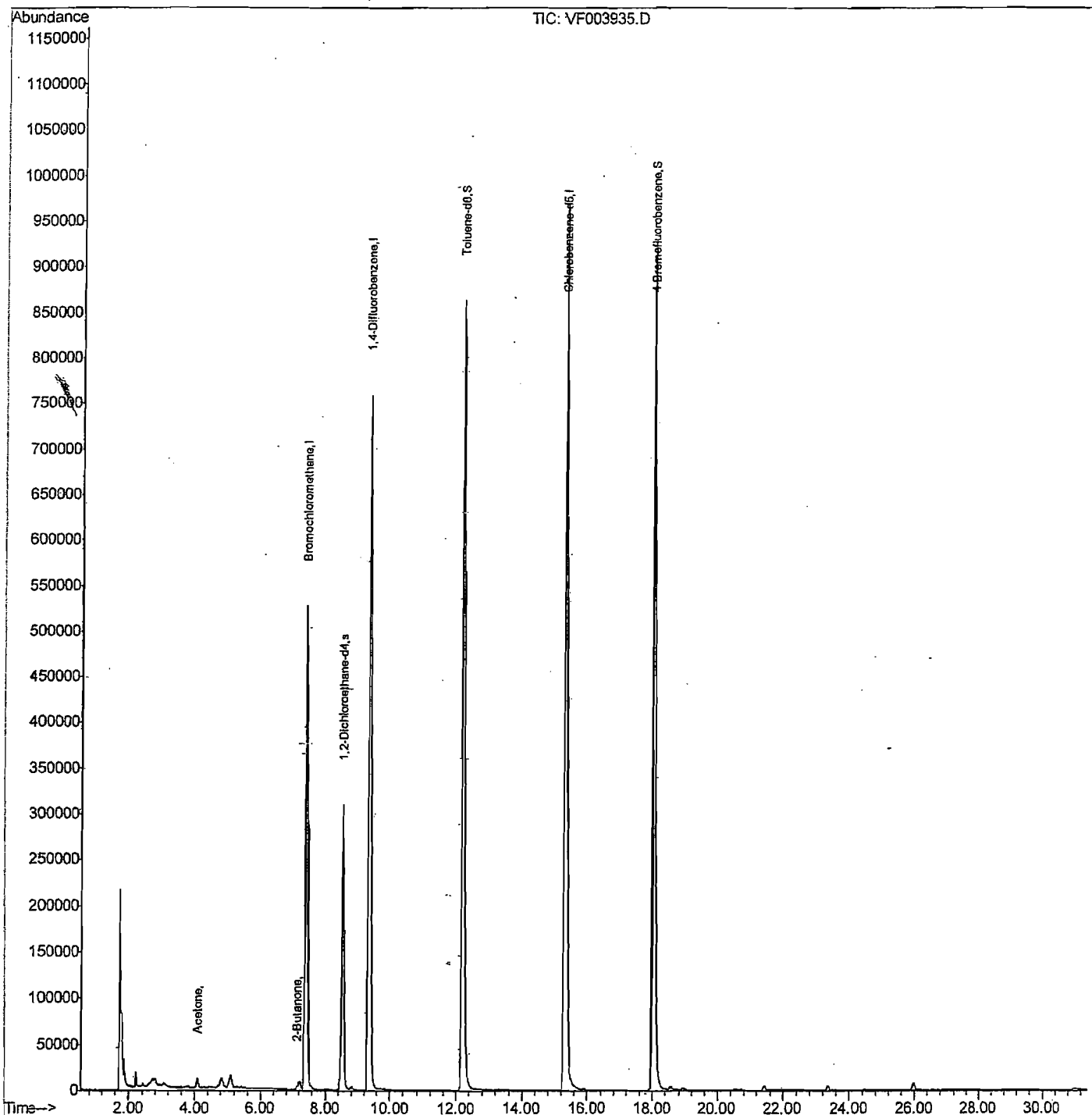
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.40	128	354121	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.36	114	1725977	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1681671	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.54	65	499978	46.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.14%	
40) 4-Bromofluorobenzene	18.04	95	1091179	46.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.56%	
43) Toluene-d8	12.21	98	1744807	45.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.46%	
Target Compounds						
10) Acetone	4.09	43	12343	5.94	ug/l	89
22) 2-Butanone	7.13	43	12365m	1.65	ug/l	

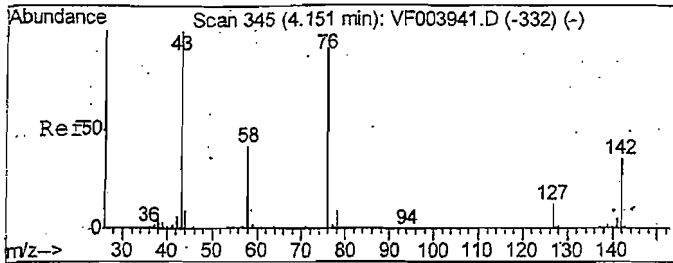
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003935.D
Acq On : 10 Sep 2006 00:17
Operator : SD
Sample : X4423-02
Misc : 5mL
ALS Vial : 14 Sample Multiplier: 1

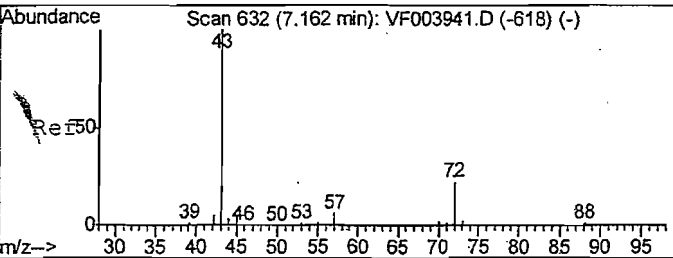
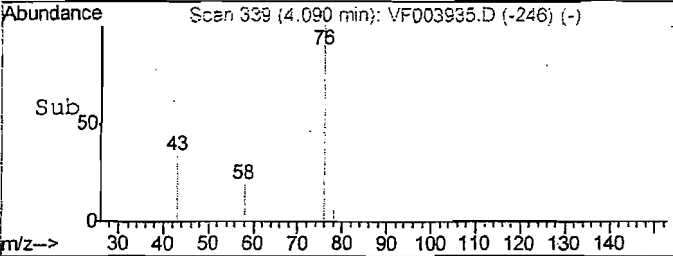
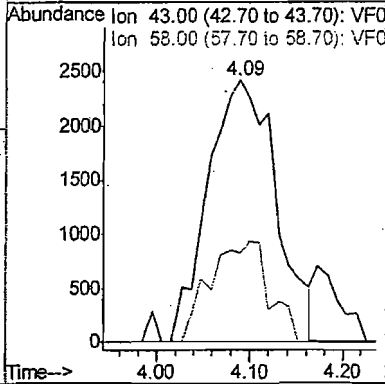
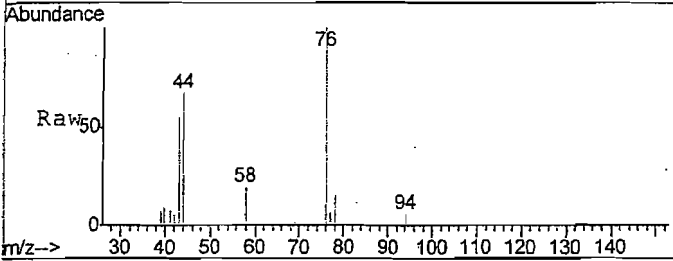
Quant Time: Sep 11 11:44:09 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 10:32:24 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D





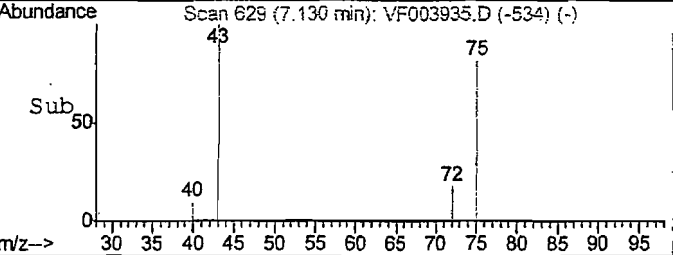
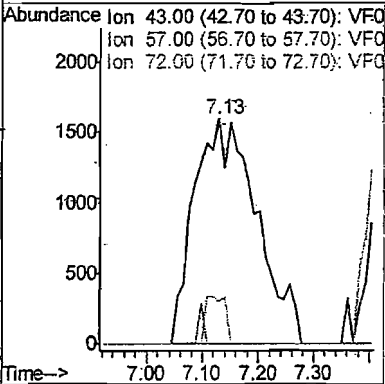
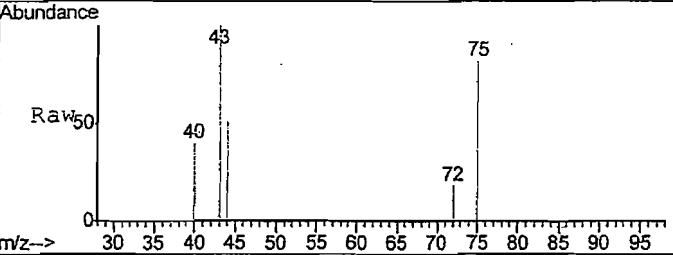
#10
 Acetone
 Concen: 5.94 ug/l
 RT: 4.09 min Scan# 339
 Delta R.T. -0.03 min
 Lab File: VF003935.D
 Acq: 10 Sep 2006 00:17

Tgt Ion: 43 Resp: 12343
 Ion Ratio Lower Upper
 43 100
 58 34.1 32.8 49.2



#22
 2-Butanone
 Concen: 1.65 ug/l m
 RT: 7.13 min Scan# 629
 Delta R.T. -0.01 min
 Lab File: VF003935.D
 Acq: 10 Sep 2006 00:17

Tgt Ion: 43 Resp: 12365
 Ion Ratio Lower Upper
 43 100
 57 1.5 4.6 7.0#
 72 6.6 12.0 22.4#



LSC Area Percent. Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003935.D
 Acq On : 10 Sep 2006 00:17
 Operator : SD
 Sample : X4423-02
 Misc : 5mL
 ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.730	104	114	125	rBV	217640	704088	14.53%	3.087%
2	7.404	645	655	680	rVV	526389	2503816	51.68%	10.979%
3	8.535	751	763	781	rBV	308757	1538341	31.75%	6.746%
4	9.362	825	842	868	rBV	758231	3911623	80.74%	17.153%
5	12.209	1096	1113	1137	rBV	863094	4500412	92.89%	19.735%
6	15.331	1398	1411	1448	rBV	967343	4844929	100.00%	21.245%
7	18.037	1648	1668	1696	rBV	928735	4801484	99.10%	21.055%

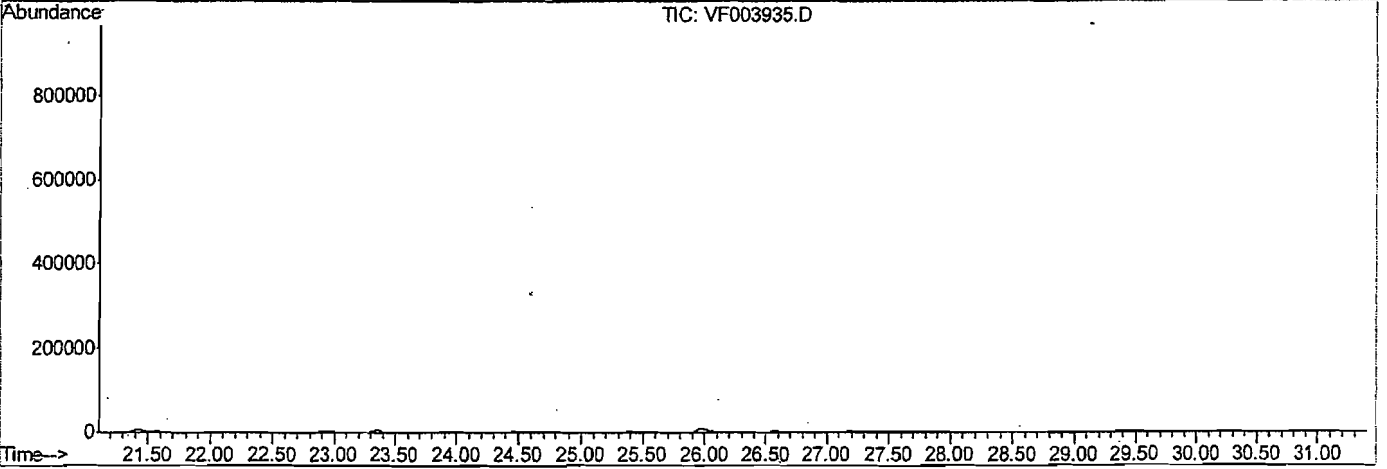
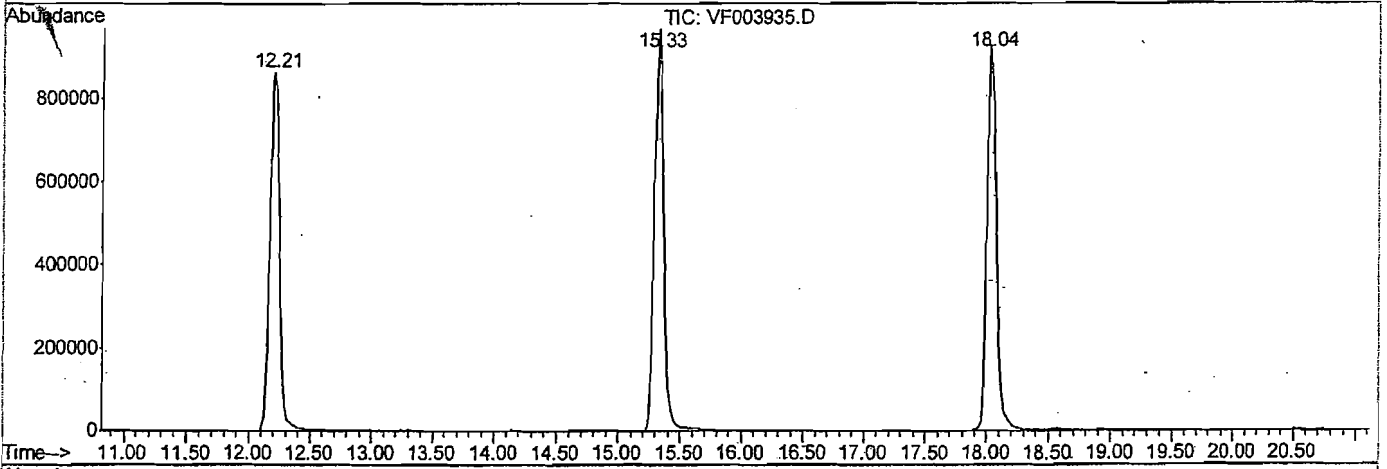
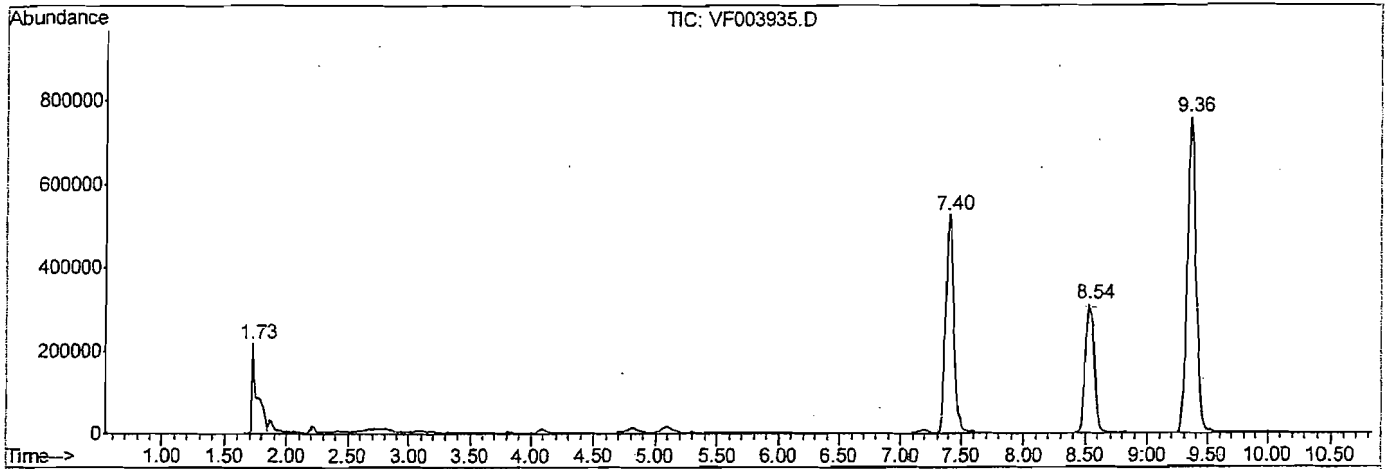
Sum of corrected areas: 22804693

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003935.D
Acq On : 10 Sep 2006 00:17
Operator : SD
Sample : X4423-02
Misc : 5mL
ALS Vial : 14 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentativelbrädeäared Compound ResOrtsummary

DäaaaPääh::ZZ\NEPHEEMIMEVUAFFNDAAVVF090906\
DäaaaFFläe::VVF089935DD
AäqqÖfn ::100Spp22066 000117
Öppäätör ::SDD
Sämpäe ::XX423302
Mässc ::56L
AÄSSVääl ::144 SämpäeMäiippäer:11

QÖantMäehhd::TT\NEPHEEMIMEVUAFFNDAAVVF090906\BFWMM
QÖantTläe ::

TTCLlibäay ::CC\DAEABAEENSS02LL
TTCCImäegäatönnPäaantäess:REENTTP

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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|--Internal Standard--|

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-3 (16-18)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-03

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003936.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		5.8	JB
75-15-0	Carbon disulfide		1.0	J
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-3 (16-18)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-03

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003936.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-3(16-18)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-03

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003936.D

Level (Low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/10/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS-NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003936.D
 Acq On : 10 Sep 2006 00:56
 Operator : SD
 Sample : X4423-03
 Misc : 5mL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 11 11:45:37 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

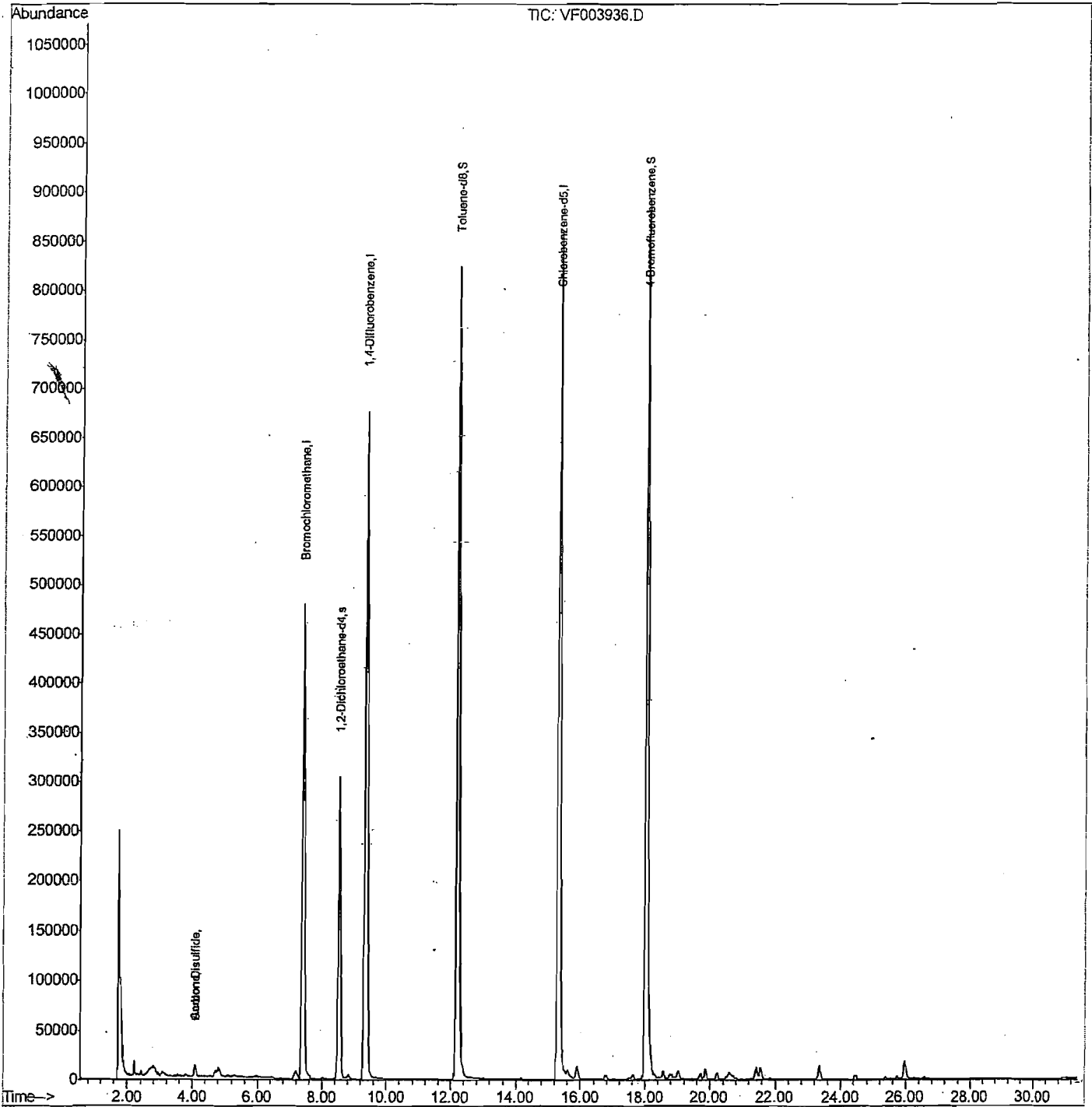
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.41	128	323176	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.37	114	1500560	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1525947	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.54	65	492130	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
40) 4-Bromofluorobenzene	18.04	95	1056676	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
43) Toluene-d8	12.21	98	1660046	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	
Target Compounds						
10) Acetone	4.09	43	11057	5.83	ug/l #	85
11) Carbon Disulfide	4.10	76	24503	1.04	ug/l	100

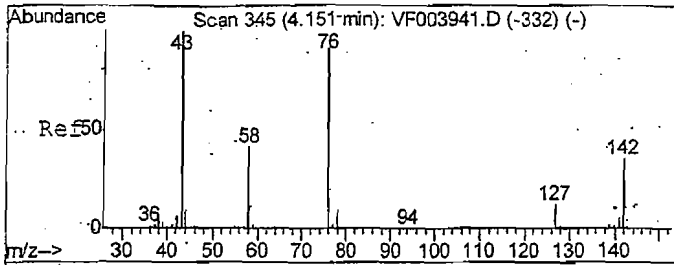
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003936.D
Acq On : 10 Sep 2006 00:56
Operator : SD
Sample : X4423-03
Misc : 5mL
ALS Vial : 15 Sample Multiplier: 1

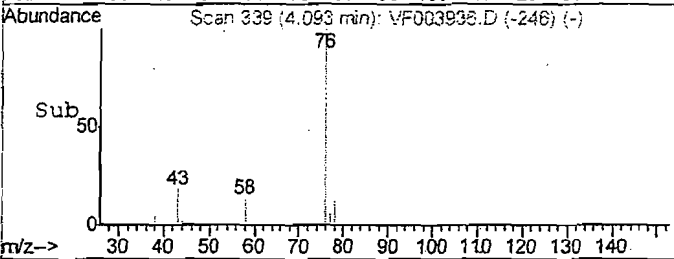
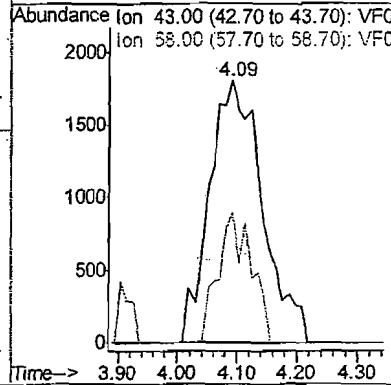
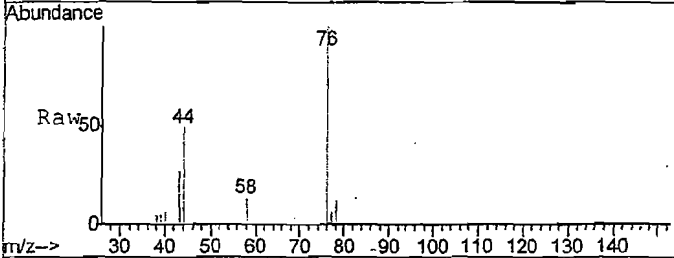
Quant Time: Sep 11 11:45:37 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 10:32:24 2006
Response via : Continuing Cal File: T:\HPCHEM1\msvoa_f\data\VF090906\VF003927.D





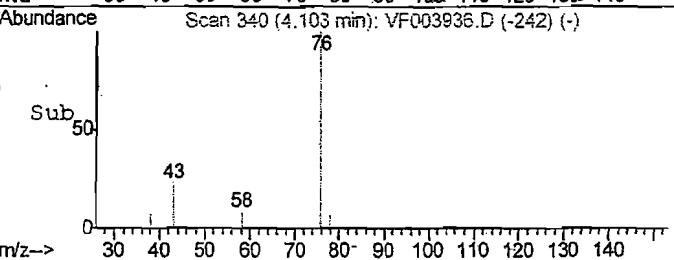
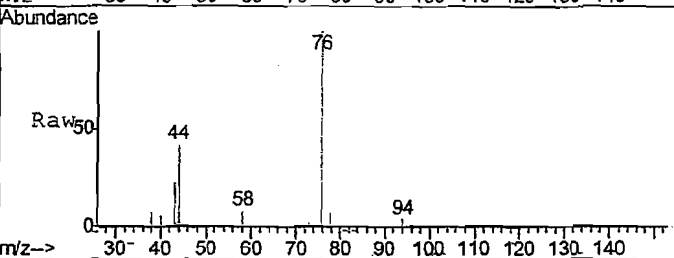
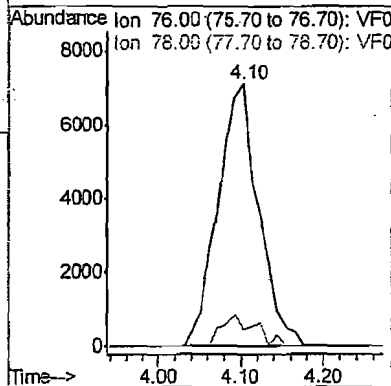
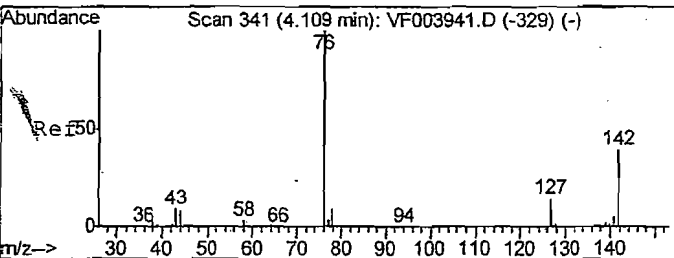
#10
 Acetone
 Concen: 5.83 ug/l
 RT: 4.09 min Scan# 339
 Delta R.T. -0.03 min
 Lab File: VF003936.D
 Acq: 10 Sep 2006 00:56

Tgt Ion: 43 Resp: 11057
 Ion Ratio Lower Upper
 43 100
 58 31.6 32.8 49.2#



#11
 Carbon Disulfide
 Concen: 1.04 ug/l
 RT: 4.10 min Scan# 340
 Delta R.T. 0.03 min
 Lab File: VF003936.D
 Acq: 10 Sep 2006 00:56

Tgt Ion: 76 Resp: 24503
 Ion Ratio Lower Upper
 76 100
 78- 9.7 7.7 11.5



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003936.D
 Acq On : 10 Sep 2006 00:56
 Operator : SD
 Sample : X4423-03
 Misc : 5mL
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.727	101	114	126	rBV	250737	878337	18.95%	4.096%
2	7.403	645	655	680	rVV	478828	2275733	49.09%	10.612%
3	8.536	752	763	781	rBV2	304191	1510155	32.57%	7.042%
4	9.366	829	842	867	rBV	676687	3454839	74.52%	16.110%
5	12.202	1099	1112	1145	rBV	824262	4337904	93.57%	20.228%
6	15.335	1398	1411	1432	rBV	860830	4352321	93.88%	20.295%
7	18.040	1655	1669	1702	rBV	891834	4636145	100.00%	21.618%

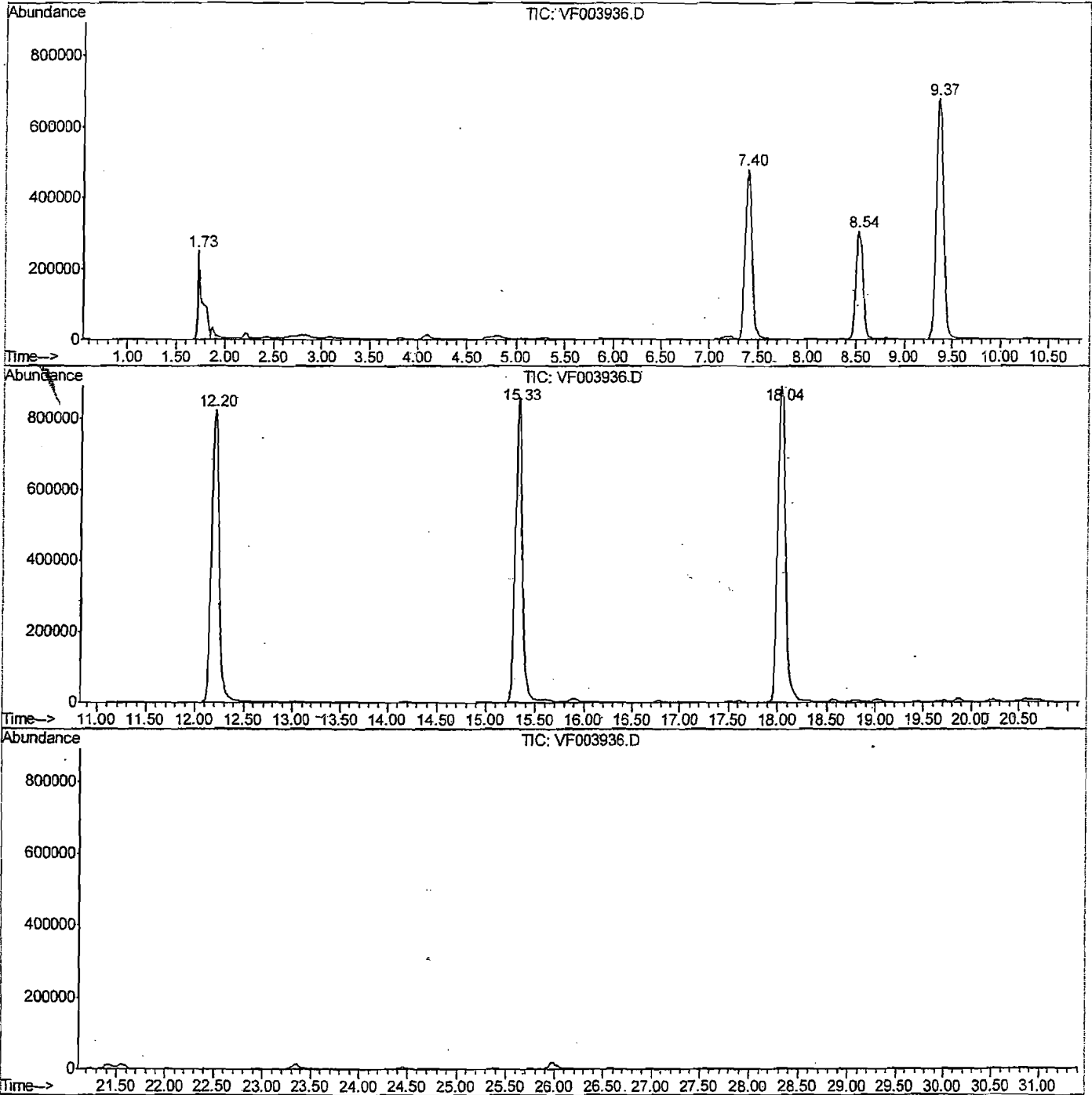
Sum of corrected areas: 21445434

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003936.D
Acq On : 10 Sep 2006 00:56
Operator : SD
Sample : X4423-03
Misc : 5mL
ALS Vial : 15 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentative Identification Compound Report Summary

Data Path: Z:\NCS\NCS\MIS\W02\AF\NCS\AV\F0909066\
Data File: V\F0909066DD
Acq On: 100Sep2006 00556
Operator: SBD
Sample: XY423083
Mass: 5mL
AVV1: 155 Sample Multiplier: 11

Quant Method: TT\NCS\NCS\MIS\W02\AF\NCS\AV\F0909066\FWMM
Quant Title:

TCCLLibrary: CC\NCS\NCS\NCS\W02LL
TCCLInhibition Parameters: REENTTP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--		
					#	RT	Resp Conc

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-3 (7-9)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-04

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003937.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		6.5	JB
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-3(7-9)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-04

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003937.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-3 (7-9)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-04

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003937.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/10/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003937.D
 Acq On : 10 Sep 2006 1:34
 Operator : SD
 Sample : X4423-04
 Misc : 5mL
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 11 11:46:18 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

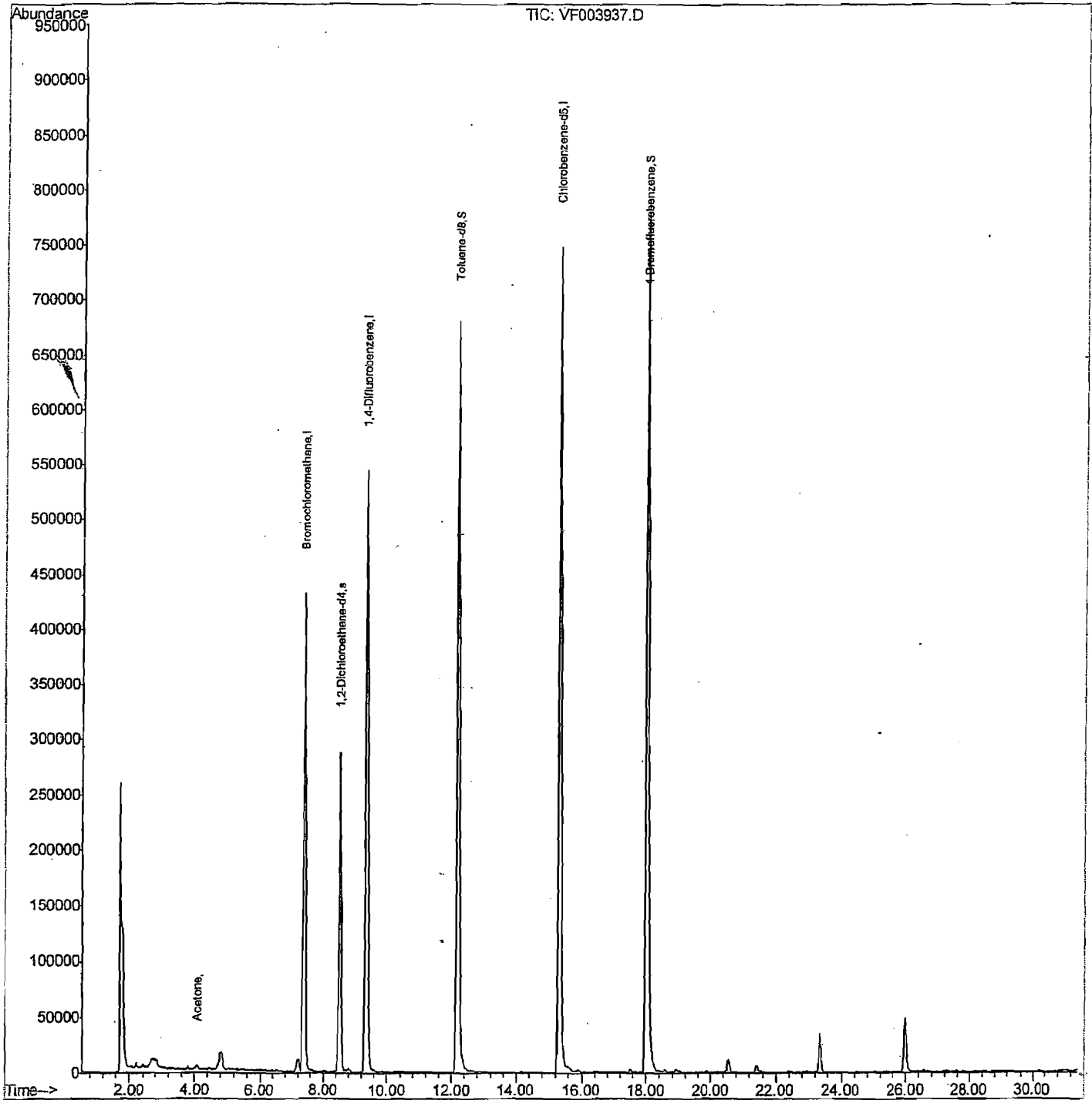
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	7.40	128	292768	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.36	114	1226589	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1312004	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.53	65	467479	52.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.20%	
40) 4-Bromofluorobenzene	18.04	95	959201	52.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.28%	
43) Toluene-d8	12.21	98	1392272	46.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.54%	
Target Compounds						
10) Acetone	4.10	43	11140	6.48	ug/l	Qvalue # 85

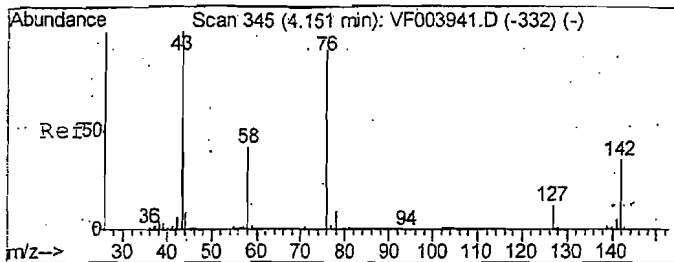
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003937.D
Acq On : 10 Sep 2006 1:34
Operator : SD
Sample : X4423-04
Misc : 5mL
ALS Vial : 16 Sample Multiplier: 1

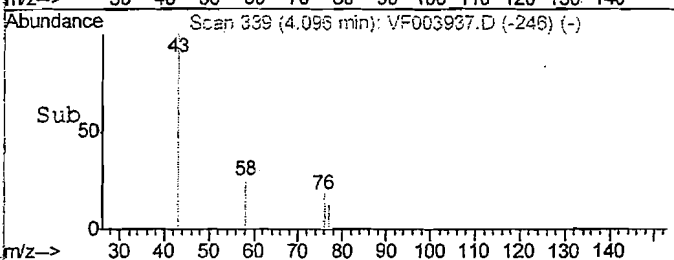
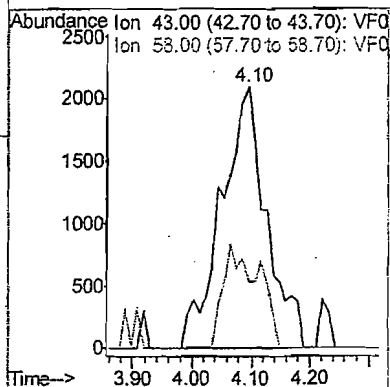
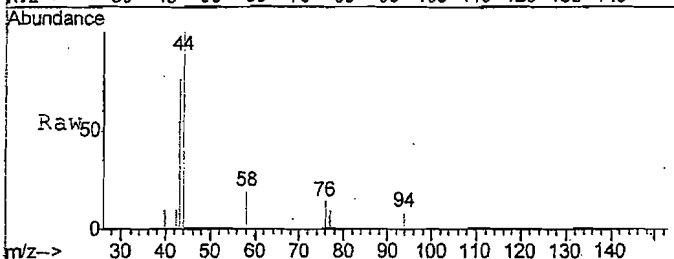
Quant Time: Sep 11 11:46:18 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 10:32:24 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D





#10
 Acetone
 Concen: 6.48 ug/l
 RT: 4.10 min Scan# 339
 Delta R.T. -0.02 min
 Lab File: VF003937.D
 Acq: 10 Sep 2006 1:34

Tgt Ion: 43 Resp: 11140
 Ion Ratio Lower Upper
 43 100
 58 31.6 32.8 49.2#



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003937.D
 Acq On : 10 Sep 2006 1:34
 Operator : SD
 Sample : X4423-04
 Misc : 5mL
 ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.722	106	113	137	rBV	260990	1154915	27.84%	5.945%
2	7.400	644	654	680	rVB	431402	1990265	47.98%	10.245%
3	8.531	751	762	782	rVB	287609	1427805	34.42%	7.350%
4	9.360	829	841	861	rBV	544239	2822256	68.04%	14.528%
5	12.201	1093	1112	1143	rBV	680565	3645681	87.90%	18.766%
6	15.330	1398	1410	1431	rBV	748180	3763128	90.73%	19.371%
7	18.044	1656	1669	1696	rBV	791685	4147696	100.00%	21.351%
8	23.343	2160	2172	2188	rBV3	35368	189542	4.57%	0.976%
9	25.984	2413	2423	2440	rBV3	49608	285281	6.88%	1.469%

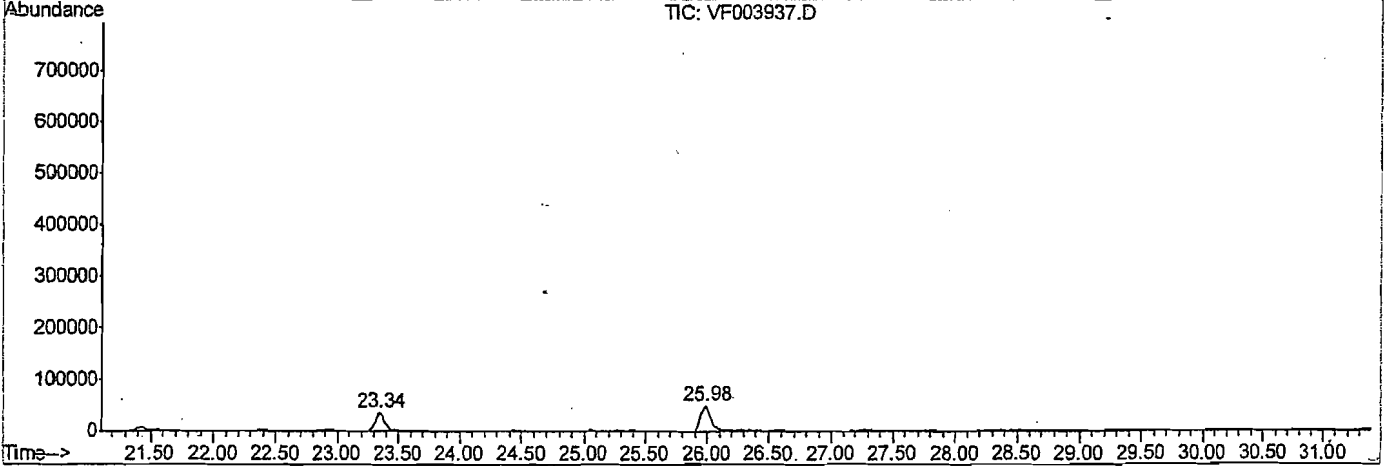
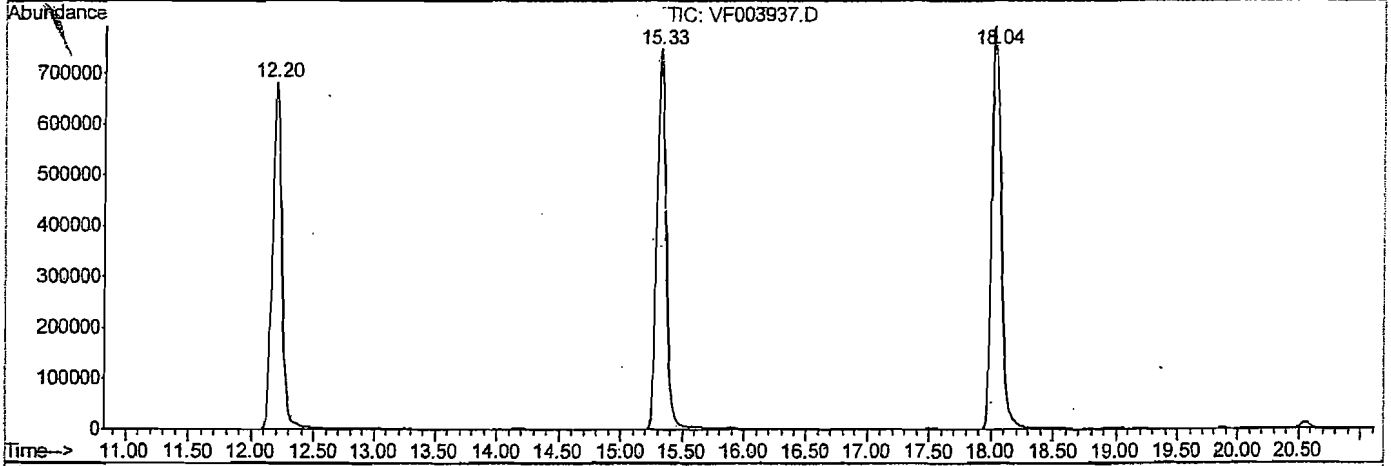
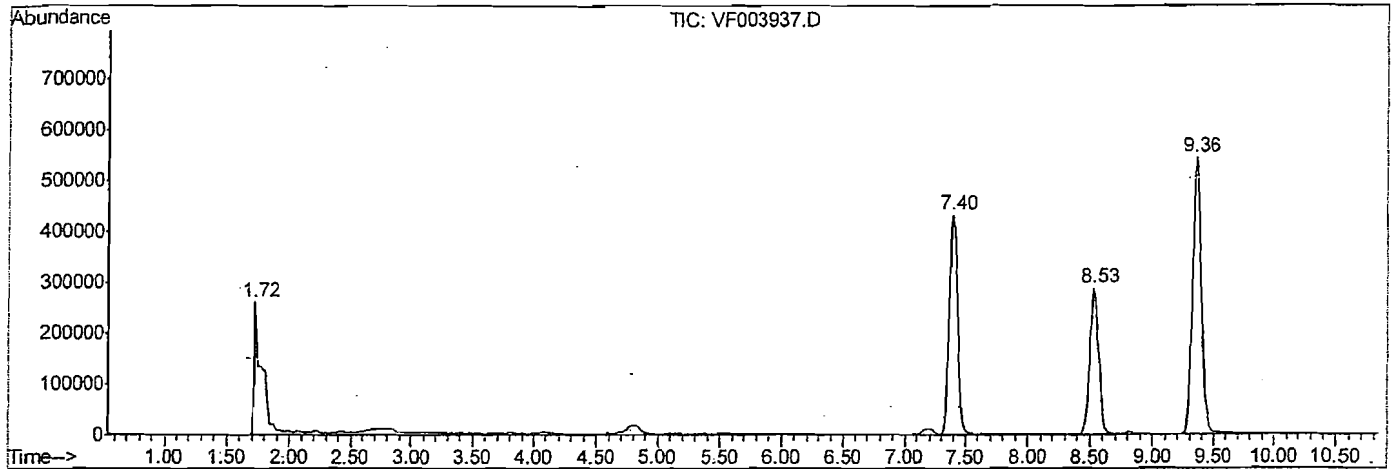
Sum of corrected areas: 19426569

LSC Report - Integrated Chromatogram.

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003937.D
Acq On : 10 Sep 2006 1:34
Operator : SD
Sample : X4423-04
Misc : 5mL
ALS Vial : 16 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentativsprädenseafied Compound Resultsummary

DaaaaPbah: ZZ\NRRRHHM\NRSUQAFNDEAAVVF999966\
DaaaFile: VVF089937DD
AqqOn : 100Spp20066 11324
Operator : SBD
Sample : XM4223004
Msec : 5mL
AASSVaal : 156 SampleMhitplér: 11

QuantMehbdd: TT\NRRRHHM\NRSUQAFNDEAAVVF999966BFWMM
QuantTime :

TTCCLibrary : CC\NRRRHHM\NRSUQAFNDEAAVVF999966BFWMM
TTCCLibrary : CC\NRRRHHM\NRSUQAFNDEAAVVF999966BFWMM

|--Internal Standard--|

TIC Top Hit name RT EstConc Units Response |# RT Resp Conc|

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-2 (50-52)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-05

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003944.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		4.9	JB
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-2 (50-52)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-05

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003944.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-2 (50-52)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-05

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003944.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 2 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	000115-07-1	Propene	1.88	7.7	J
2.	000115-11-7	1-Propene, 2-methyl-	2.23	6.1	J

Comments: _____

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003944.D
 Acq On : 11 Sep 2006 14:17
 Operator : SD
 Sample : X4423-05
 Misc : 5mL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 15:52:38 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

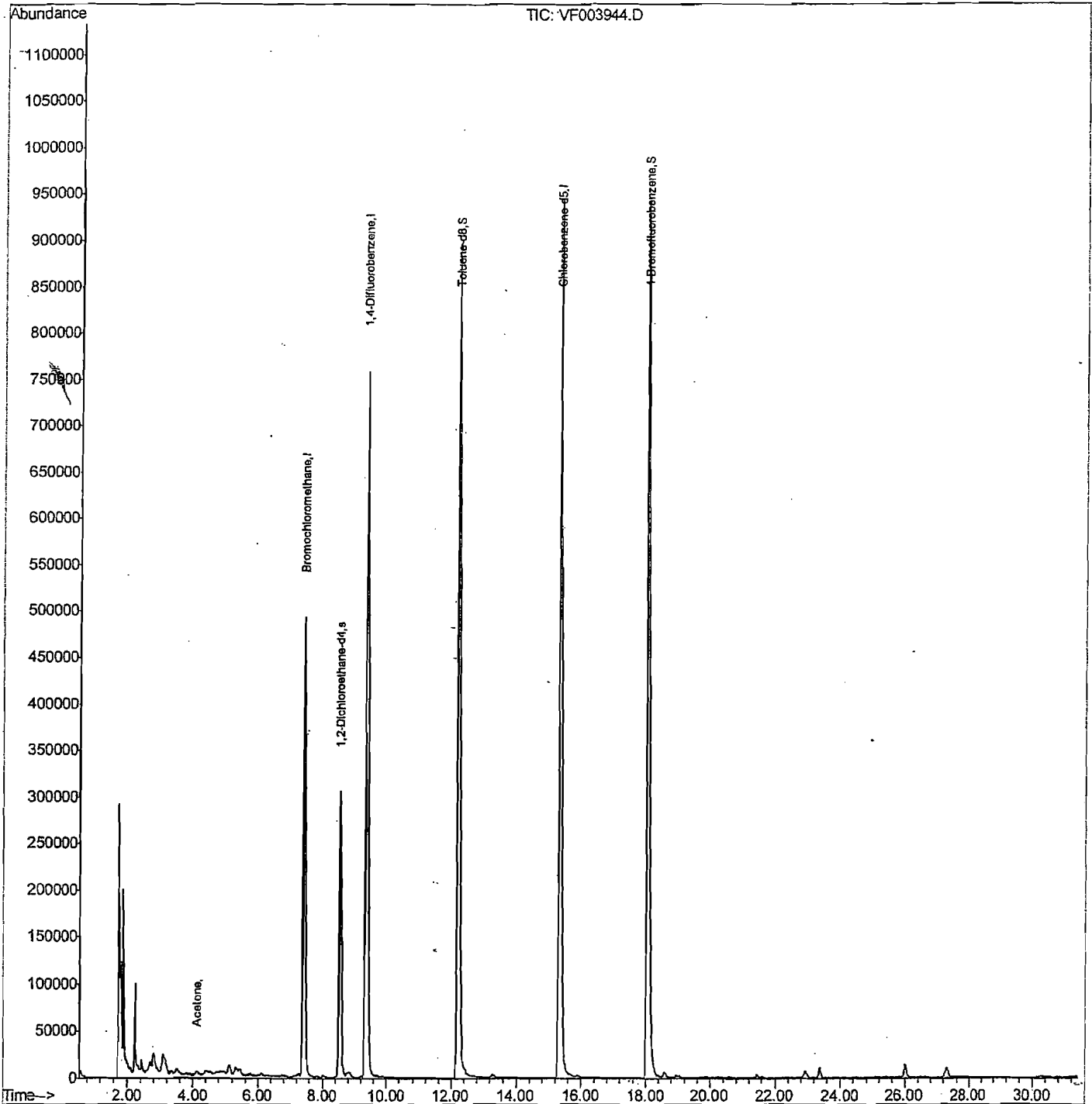
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.43	128	335025	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.39	114	1746634	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.35	117	1626068	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.55	65	484665	50.38	ug/l	0.00
Spiked Amount	50.000					
					Recovery =	100.76%
40) 4-Bromofluorobenzene	18.06	95	1075313	47.56	ug/l	0.00
Spiked Amount	50.000				Recovery =	95.12%
43) Toluene-d8	12.23	98	1733741	45.20	ug/l	0.00
Spiked Amount	50.000				Recovery =	90.40%
Target Compounds						
10) Acetone	4.12	43	9040	4.89	ug/l #	Qvalue 71

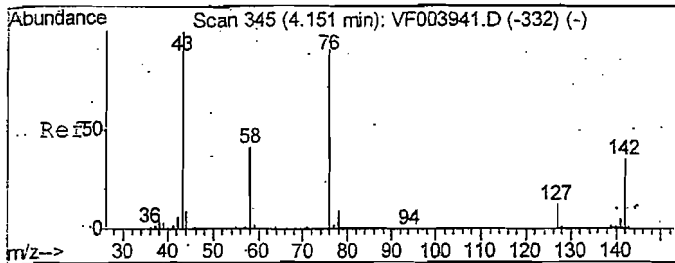
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003944.D
Acq On : 11 Sep 2006 14:17
Operator : SD
Sample : X4423-05
Misc : 5mL
ALS Vial : 5 Sample Multiplier: 1

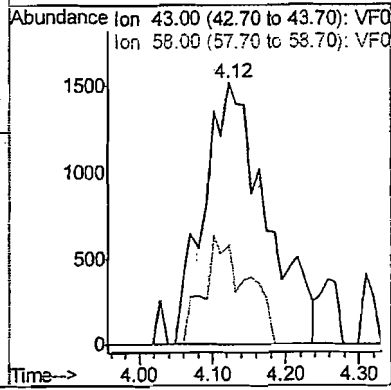
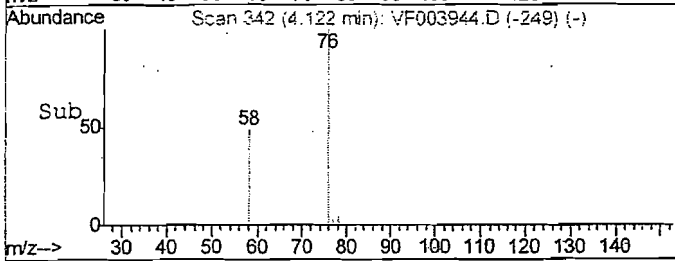
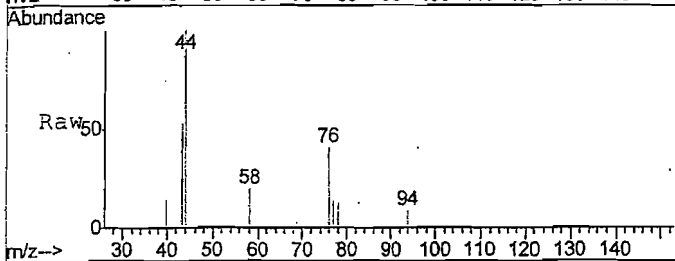
Quant Time: Sep 11 15:52:38 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\msvoa_f\data\VF091106\VF003941.D





#10
 Acetone
 Concen: 4.89 ug/l
 RT: 4.12 min Scan# 342
 Delta R.T. -0.03 min
 Lab File: VF003944.D
 Acq: 11 Sep 2006 14:17

Tgt Ion: 43 Resp: 9040
 Ion Ratio Lower Upper
 43 100
 58 22.4 32.6 49.0#



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003944.D
 Acq On : 11 Sep 2006 14:17
 Operator : SD
 Sample : X4423-05
 Misc : 5mL
 ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.747	110	116	121	rBV	291567	764069	15.82%	3.247%
2	1.884	127	129	145	rVB	191166	355432	7.36%	1.511%
3	2.229	157	162	177	rBV2	93845	280107	5.80%	1.190%
4	3.084	236	243	261	rVB2	20283	165608	3.43%	0.704%
5	7.425	645	657	676	rVV	491922	2294699	47.52%	9.753%
6	8.351	746	764	781	rBV	305562	1521641	31.51%	6.467%
7	9.388	832	844	865	rBV2	758145	3903801	80.84%	16.592%
8	12.229	1100	1115	1141	rBV	896847	4646458	96.22%	19.748%
9	15.353	1401	1413	1451	rBV	943961	4767781	98.73%	20.264%
10	18.062	1658	1671	1703	rBV	941726	4828952	100.00%	20.524%

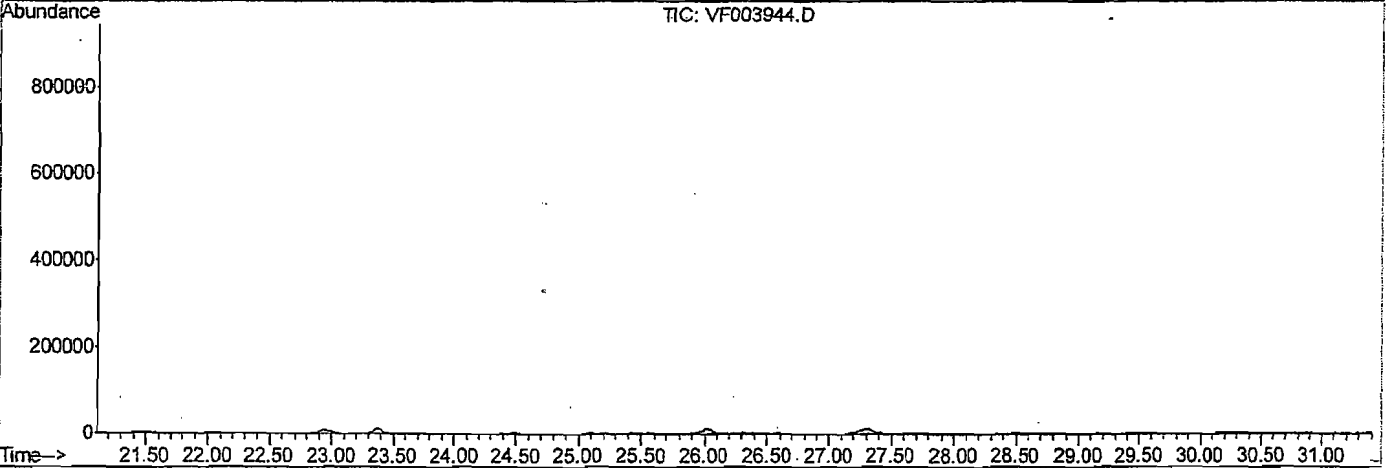
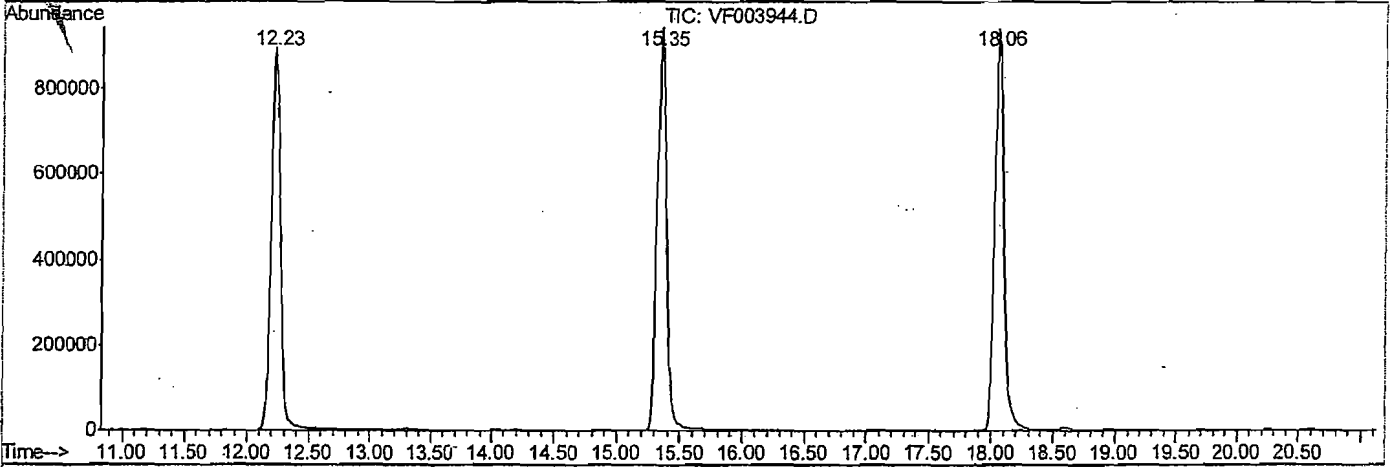
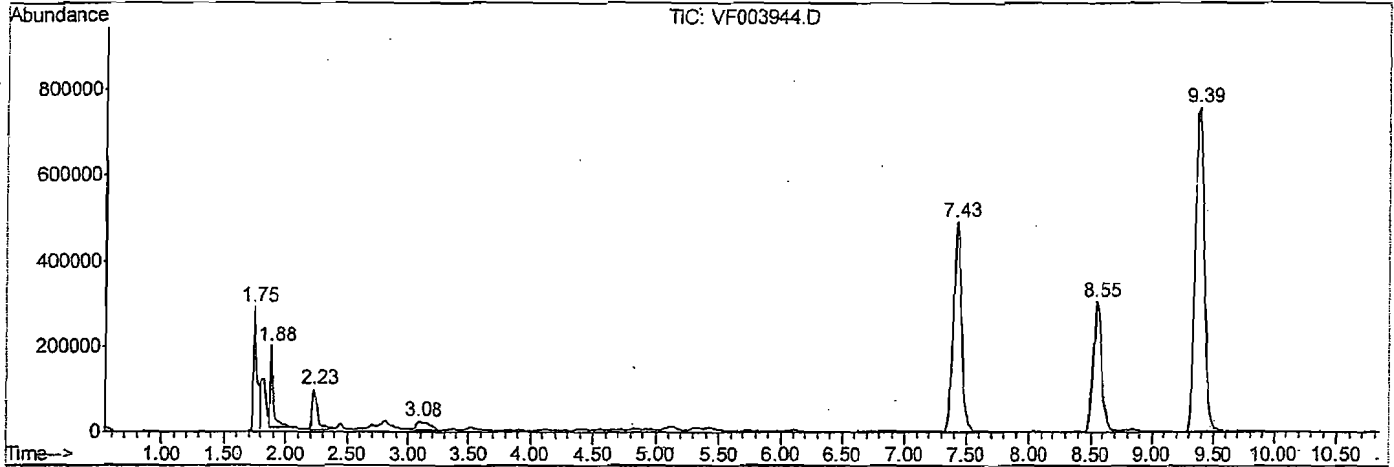
Sum of corrected areas: 23528548

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003944.D
Acq On : 11 Sep 2006 14:17
Operator : SD
Sample : X4423-05
Misc : 5mL
ALS Vial : 5 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003944.D
 Acq On : 11 Sep 2006 14:17
 Operator : SD
 Sample : X4423-05
 Misc : 5mL
 ALS Vial : 5 Sample Multiplier: 1

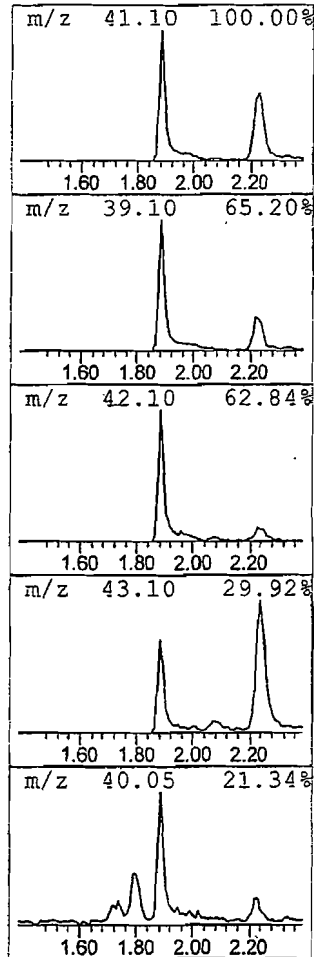
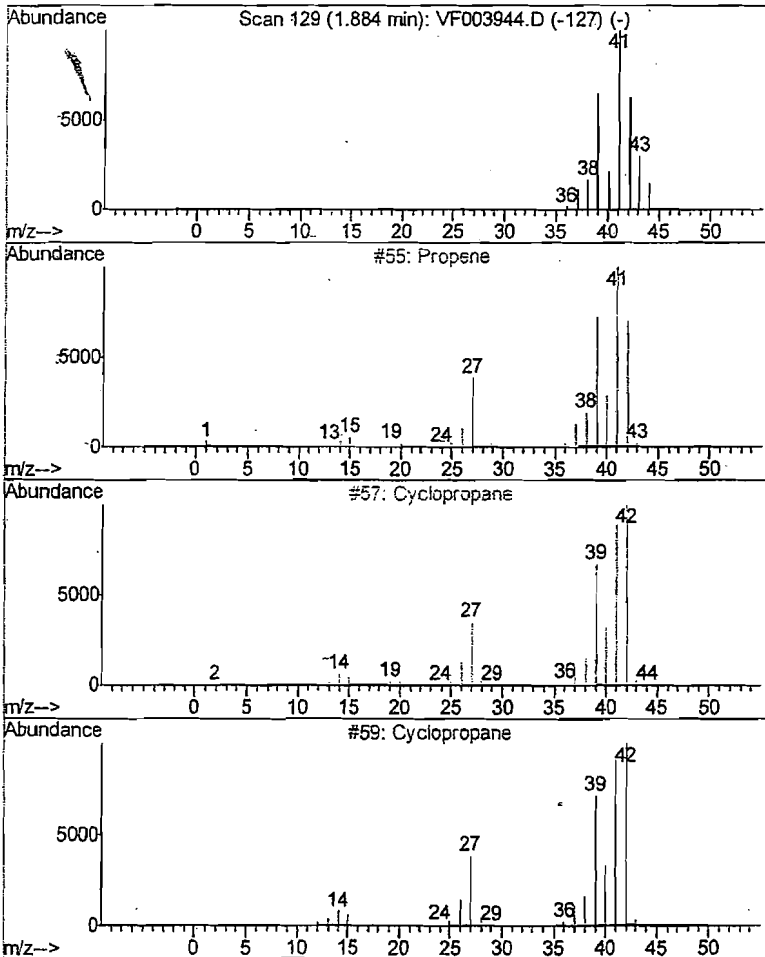
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: RTEINT.P

 Peak Number 2 Propene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.88	7.74 ug/l	355432	Bromochloromethane	7.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Propene	42	C3H6	000115-07-1	86
2		Cyclopropane	42	C3H6	000075-19-4	72
3		Cyclopropane	42	C3H6	000075-19-4	72
4		Propene	42	C3H6	000115-07-1	38
5		Cyclopropene	40	C3H4	002781-85-3	12



Library Search Compound Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003944.D
 Acq On : 11 Sep 2006 14:17
 Operator : SD
 Sample : X4423-05
 Misc : 5mL
 ALS Vial : 5 Sample Multiplier: 1

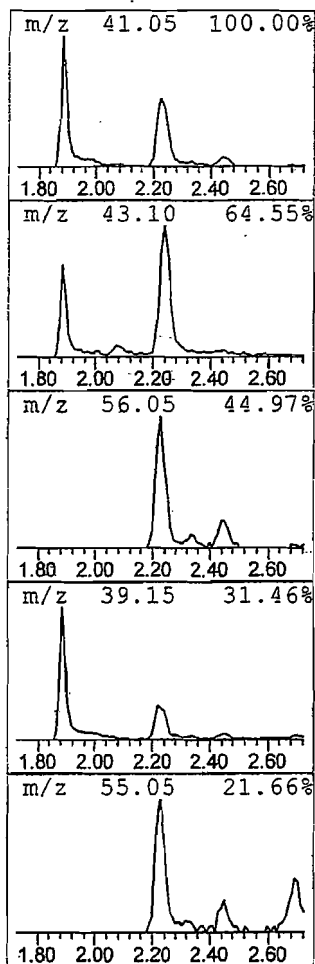
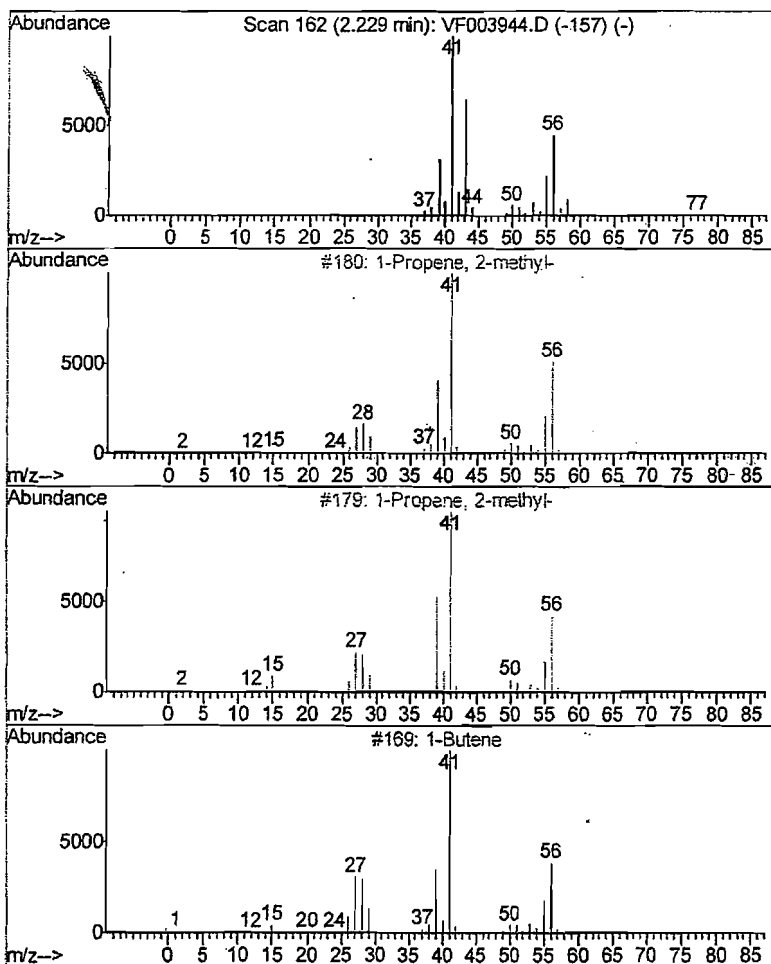
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: RTEINT.P

 Peak Number 3 1-Propene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.23	6.10 ug/l	280107	Bromochloromethane	7.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	62
2		1-Propene, 2-methyl-	56	C4H8	000115-11-7	59
3		1-Butene	56	C4H8	000106-98-9	58
4		1-Butene	56	C4H8	000106-98-9	58
5		1-Propene, 2-methyl-	56	C4H8	000115-11-7	58



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003944.D
 Acq On : 11 Sep 2006 14:17
 Operator : SD
 Sample : X4423-05
 Misc : 5mL
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: RTEINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	--Internal Standard--		
						RT	Resp	Conc
Propene	1.88	7.7	ug/l	355432	1	7.43	2294700	50.0
1-Propene, 2-methyl-	2.23	6.1	ug/l	280107	1	7.43	2294700	50.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-2(30-32)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-06

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003945.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		6.5	J
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		1.9	J
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		5.3	J
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-2 (30-32)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-06

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003945.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-2 (30-32)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-06

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003945.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 017059-48-2	1H-Indene, 2,3-dihydro-1,6-d	25.66	6.7	J

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003945.D
 Acq On : 11 Sep 2006 14:56
 Operator : SD
 Sample : X4423-06
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 16:54:00 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

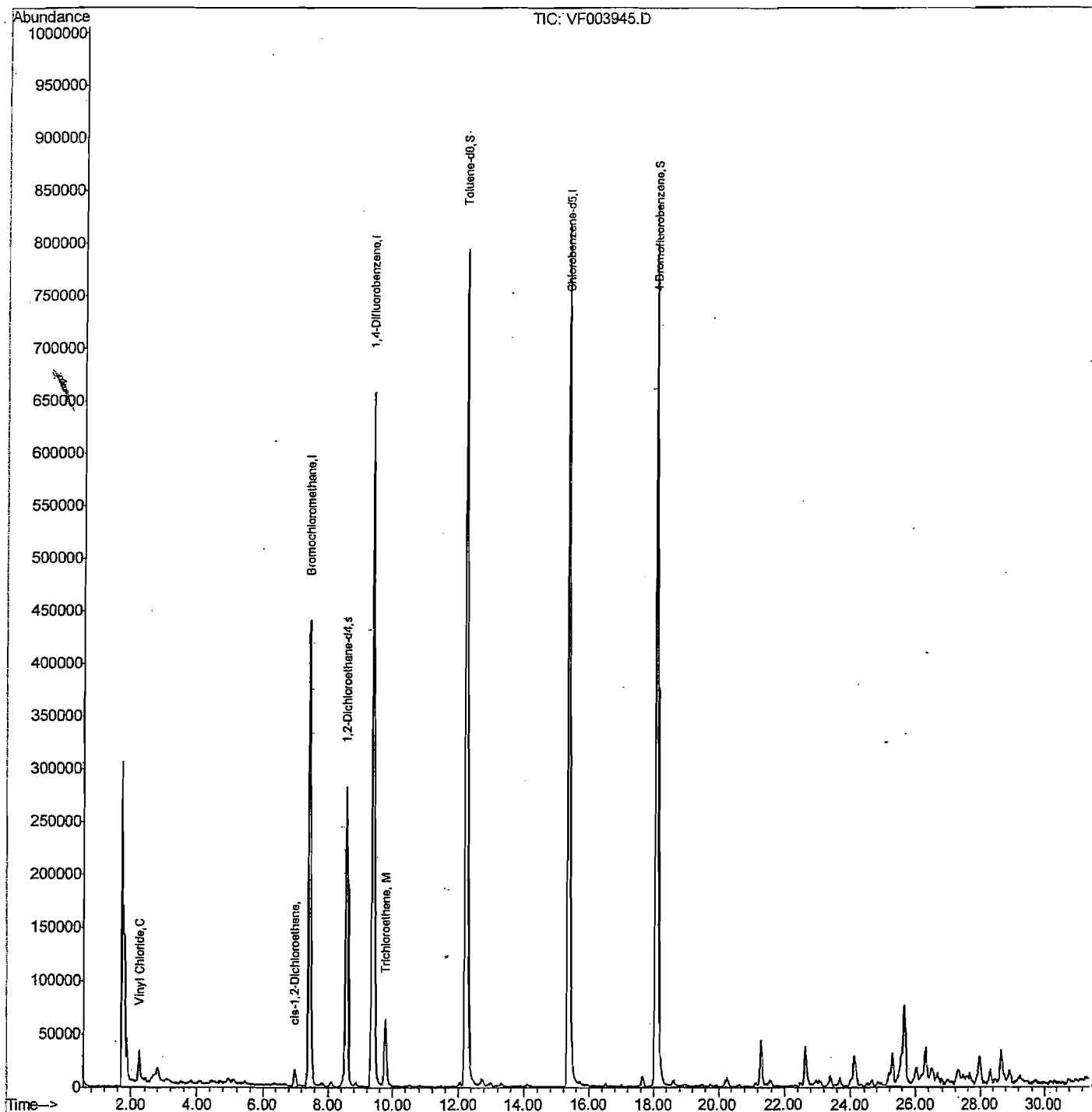
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.44	128	300905	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.39	114	1498003	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.38	117	1456345	50.00	ug/l	0.02
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.57	65	448134	51.86	ug/l	0.01
Spiked Amount	50.000		Recovery	=	103.72%	
40) 4-Bromofluorobenzene	18.08	95	968102	47.81	ug/l	0.02
Spiked Amount	50.000		Recovery	=	95.62%	
43) Toluene-d8	12.25	98	1576745	45.90	ug/l	0.02
Spiked Amount	50.000		Recovery	=	91.80%	
Target Compounds						
4) Vinyl Chloride	2.26	62	51143	6.50	ug/l	98
16) cis-1,2-Dichloroethene	6.99	96	18581	1.93	ug/l	91
27) Trichloroethene	9.78	130	62285	5.30	ug/l	97

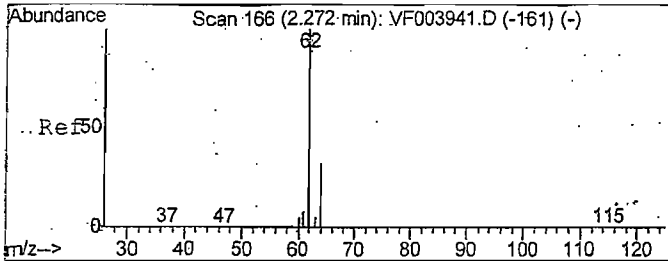
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003945.D
Acq On : 11 Sep 2006 14:56
Operator : SD
Sample : X4423-06
Misc : 5mL
ALS Vial : 6 Sample Multiplier: 1

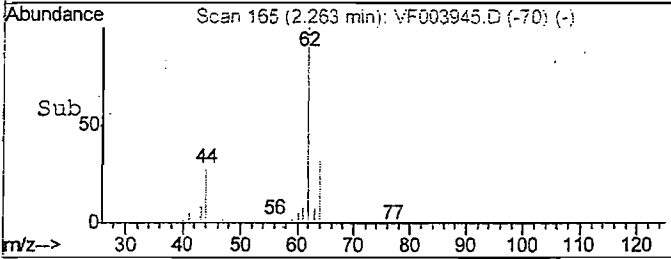
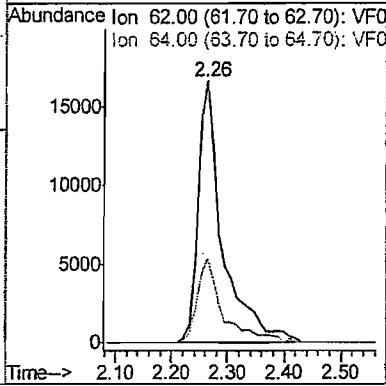
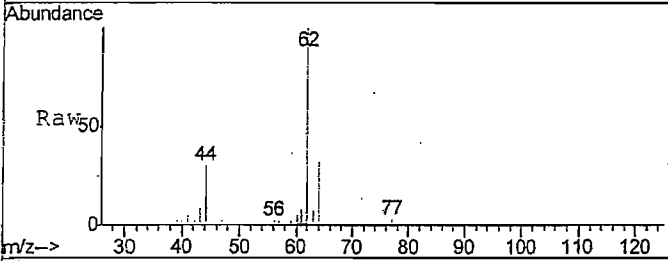
Quant Time: Sep 11 16:54:00 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D





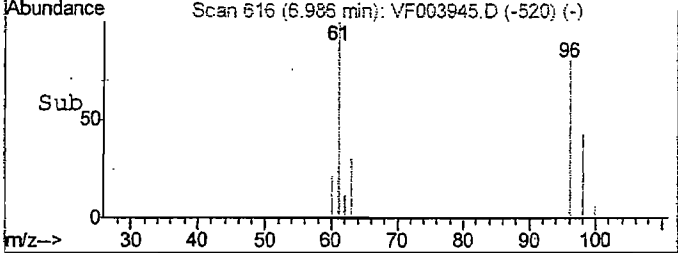
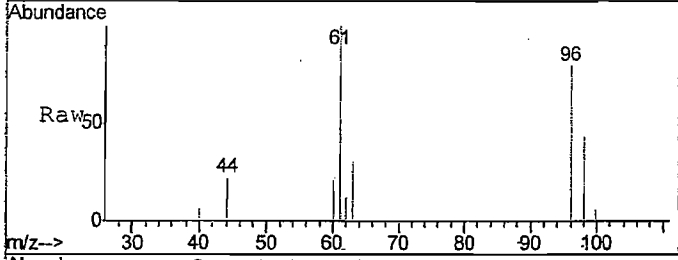
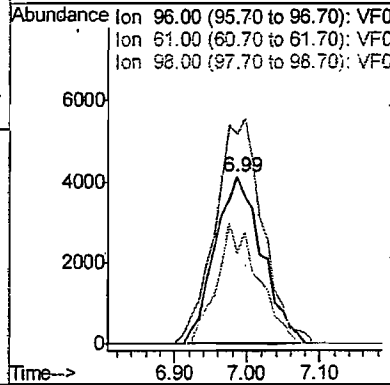
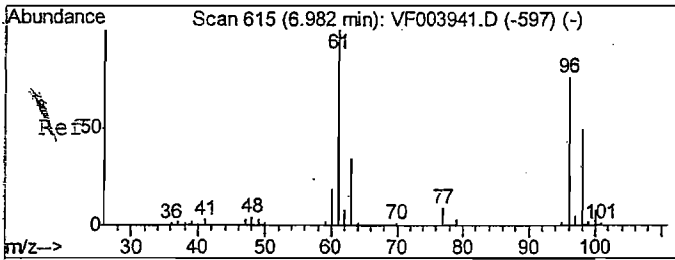
#4
 Vinyl Chloride
 Concen: 6.50 ug/l
 RT: 2.26 min Scan# 165
 Delta R.T. -0.01 min
 Lab File: VF003945.D
 Acq: 11 Sep 2006 14:56

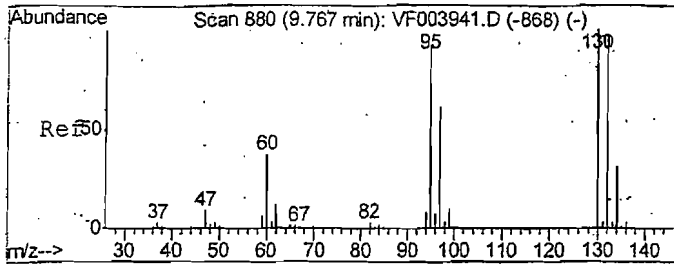
Tgt Ion: 62 Resp: 51143
 Ion Ratio Lower Upper
 62 100
 64 34.5 16.8 50.3



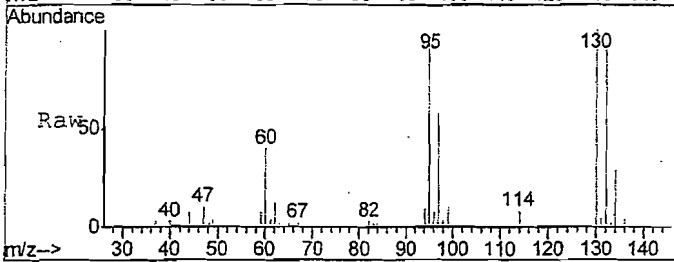
#16
 cis-1,2-Dichloroethene
 Concen: 1.93 ug/l
 RT: 6.99 min Scan# 616
 Delta R.T. 0.00 min
 Lab File: VF003945.D
 Acq: 11 Sep 2006 14:56

Tgt Ion: 96 Resp: 18581
 Ion Ratio Lower Upper
 96 100
 61 136.5 0.0 302.0
 98 63.4 0.0 132.6



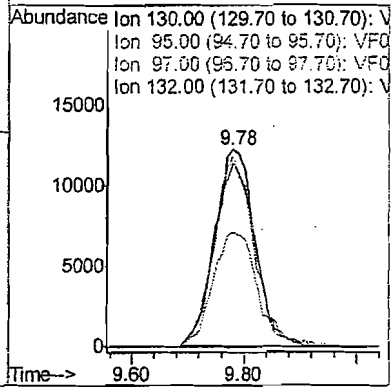
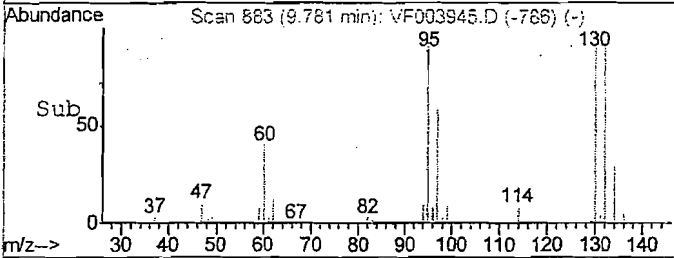


#27
 Trichloroethene
 Concen: 5.30 ug/l
 RT: 9.78 min Scan# 883
 Delta R.T. 0.01 min
 Lab File: VF003945.D
 Acq: 11 Sep 2006 14:56



Tgt Ion: 130 Resp: 62285

Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	183.0
97	62.3	29.9	89.7
132	94.0	0.0	191.2



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003945.D
 Acq On : 11 Sep 2006 14:56
 Operator : SD
 Sample : X4423-06
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.739	109	115	117	rBV	307263	580976	13.35%	2.610%
2	7.436	645	659	681	rBV	440184	2078341	47.74%	9.338%
3	8.568	747	767	788	rBV	282349	1459555	33.53%	6.558%
4	9.395	831	846	868	rBV	657809	3378825	77.62%	15.182%
5	9.781	874	883	903	rVB3	64006	334892	7.69%	1.505%
6	12.246	1105	1118	1143	rBV	792894	4154760	95.44%	18.668%
7	15.365	1399	1415	1443	rBV	819527	4226311	97.09%	18.990%
8	18.084	1653	1674	1703	rBV	837320	4353087	100.00%	19.559%
9	21.292	1969	1979	1991	rBV2	42862	220634	5.07%	0.991%
10	22.650	2099	2108	2120	rBV	36514	190348	4.37%	0.855%
11	24.111	2241	2247	2262	rVB3	28106	167867	3.86%	0.754%
12	25.297	2352	2360	2370	rVV3	29840	164822	3.79%	0.741%
13	25.664	2370	2395	2408	rVB4	73500	568487	13.06%	2.554%
14	27.972	2599	2614	2626	rBV6	26106	184983	4.25%	0.831%
15	28.654	2670	2679	2696	rBV2	30175	191885	4.41%	0.862%

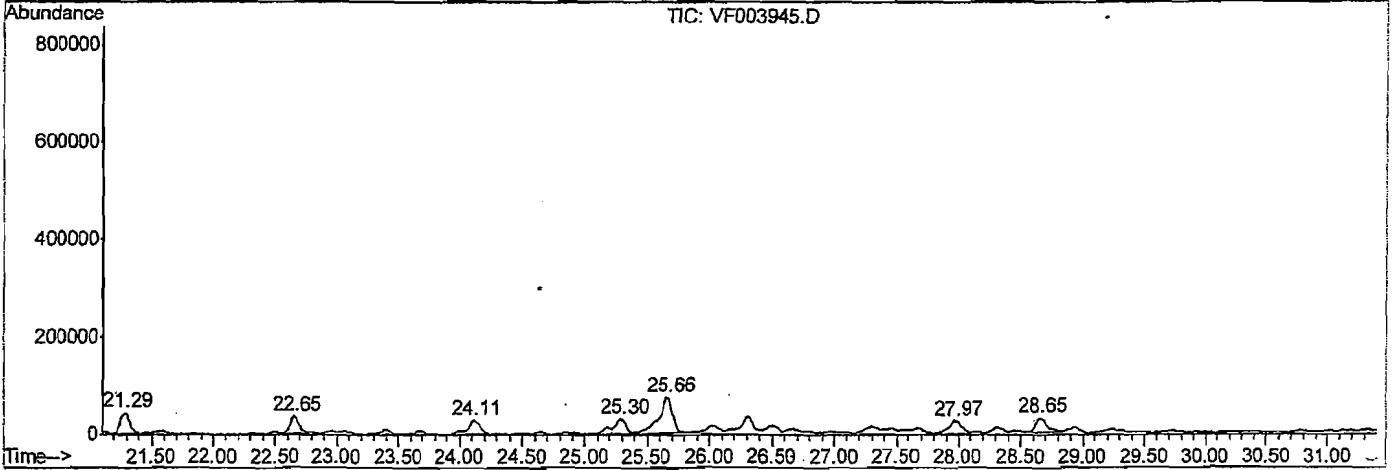
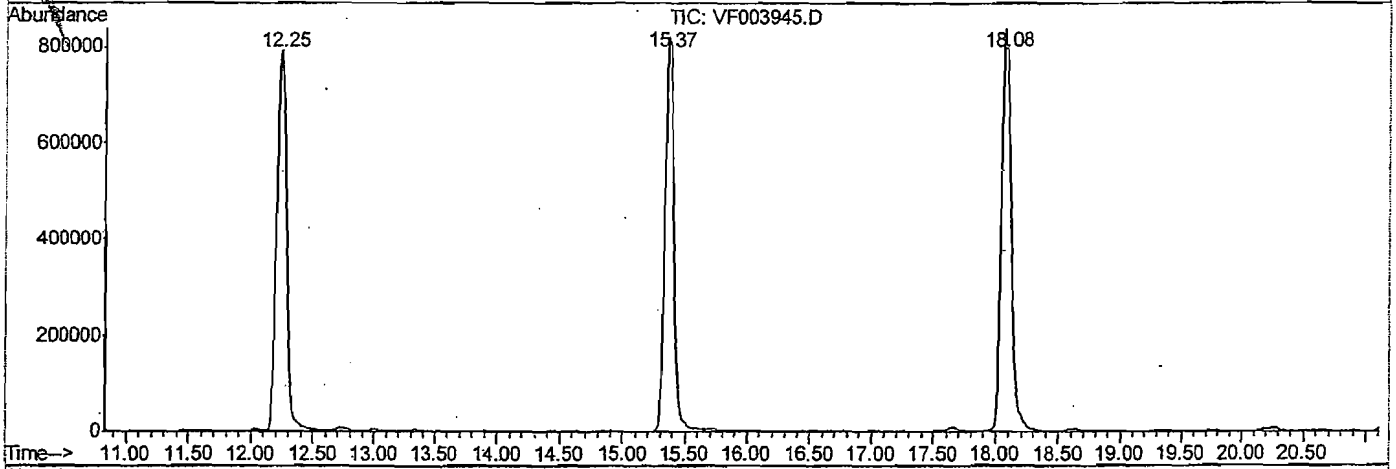
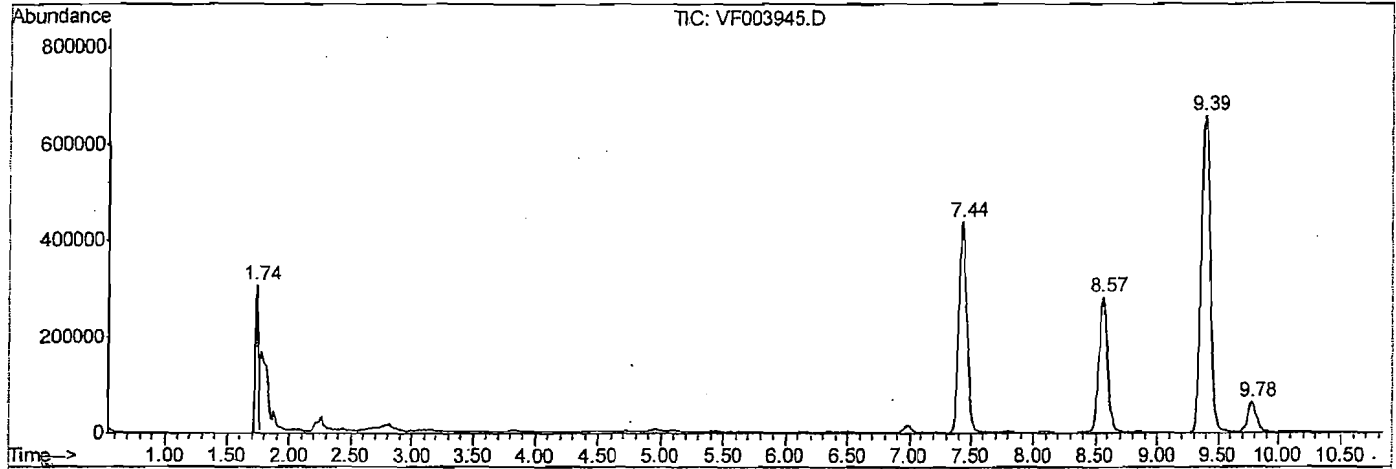
Sum of corrected areas: 22255773

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003945.D
Acq On : 11 Sep 2006 14:56
Operator : SD
Sample : X4423-06
Misc : 5mL
ALS Vial : 6 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003945.D
 Acq On : 11 Sep 2006 14:56
 Operator : SD
 Sample : X4423-06
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

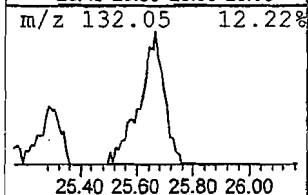
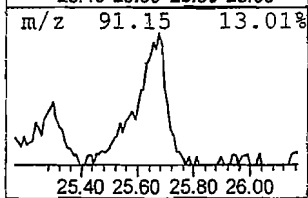
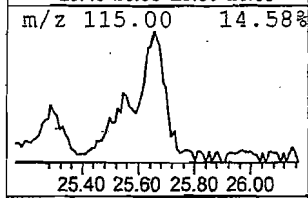
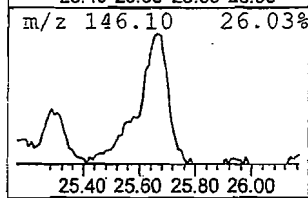
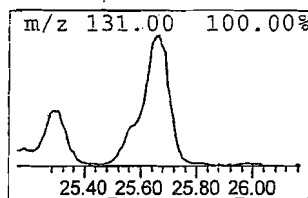
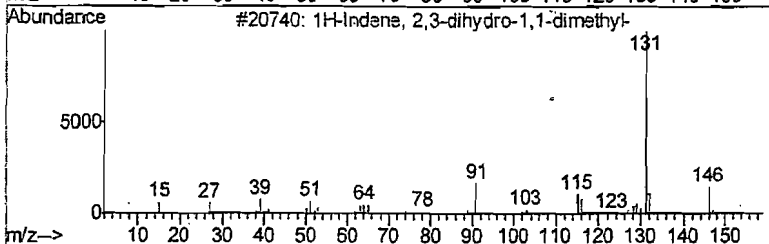
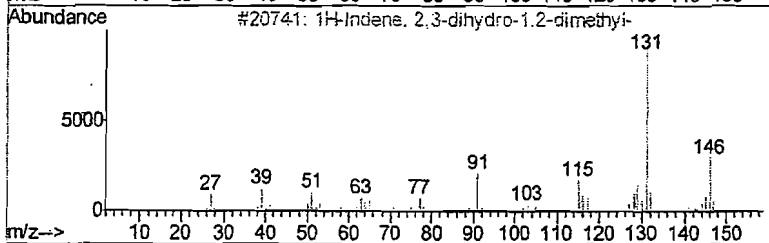
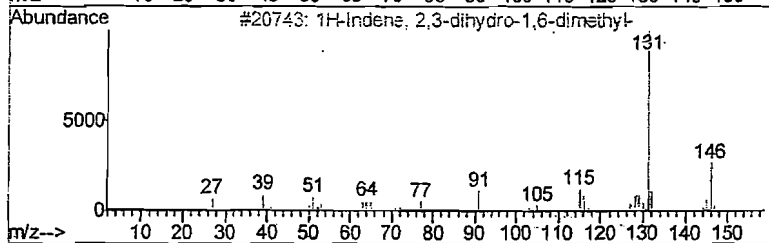
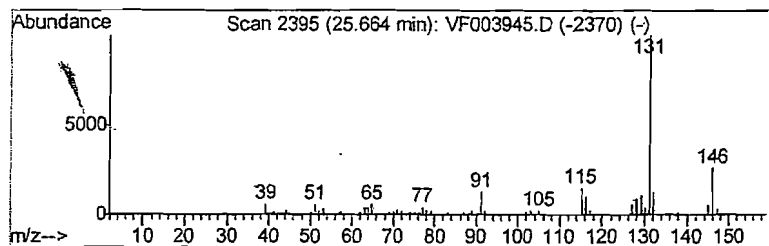
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: RTEINT.P

 Peak Number 2 1H-Indene; 2,3-dihydro-1,6-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.66	6.73 ug/l	568487	Chlorobenzene-d5	15.38

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	95
2		1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	94
3		1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	91
4		Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	91
5		Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	91



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003945.D
 Acq On : 11 Sep 2006 14:56
 Operator : SD
 Sample : X4423-06
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: RTEINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	--Internal Standard--		
						RT	Resp	Conc
1H-Indene, 2,3-di...	25.66	6.7	ug/l	568487	3	15.38	4226310	50.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-2 (20-22)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-07

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003946.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		2.2	J
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-2 (20-22)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-07

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003946.D

Level (low/med): _____ Date Received: 9/7/06

‡ Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-2(20-22)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-07

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003946.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003946.D
 Acq On : 11 Sep 2006 15:35
 Operator : SD
 Sample : X4423-07
 Misc : 5mL
 ALS Vial : 7 Sample Multiplier: 1

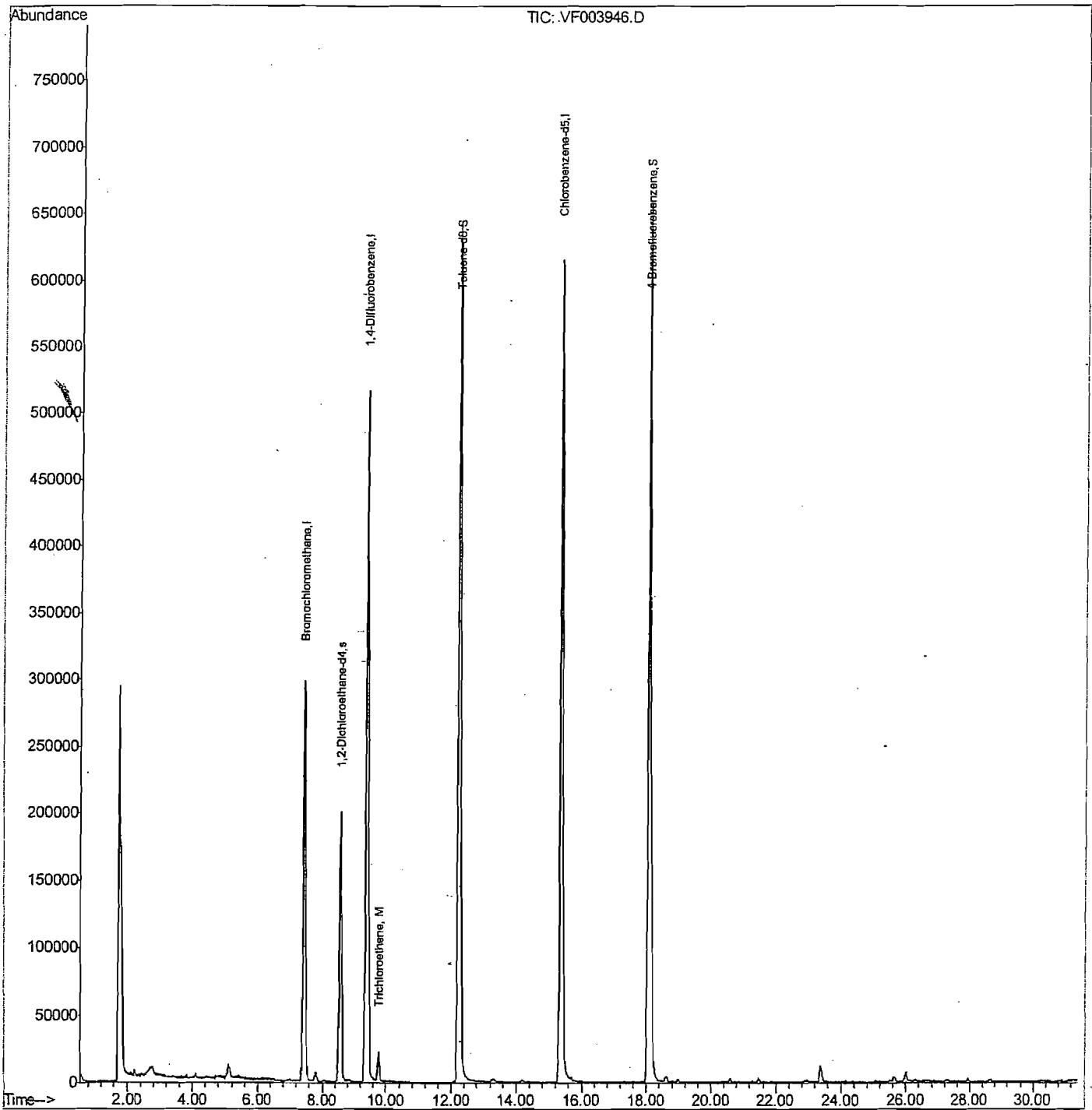
Quant Time: Sep 11 17:07:56 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

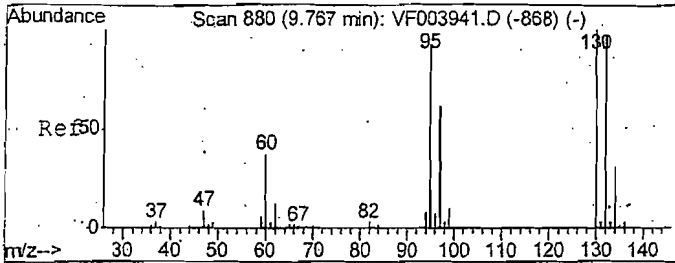
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.44	128	205504	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.39	114	1170211	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.36	117	1060620	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.57	65	320626	54.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.66%	
40) 4-Bromofluorobenzene	18.07	95	760038	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
43) Toluene-d8	12.24	98	1262809	50.48	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.96%	
Target Compounds						
27) Trichloroethene	9.78	130	20553	2.24	ug/l	Qvalue 94

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

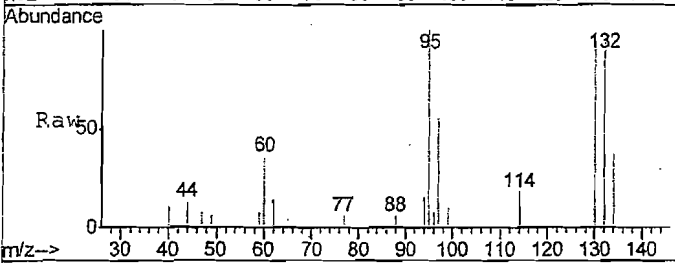
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Data File : VF003946.D
Acq On : 11 Sep 2006 15:35
Operator : SD
Sample : X4423-07
Misc : 5mL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 11 17:07:56 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D



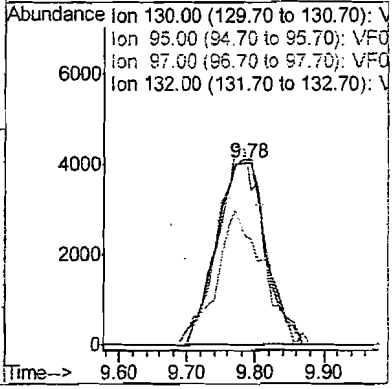
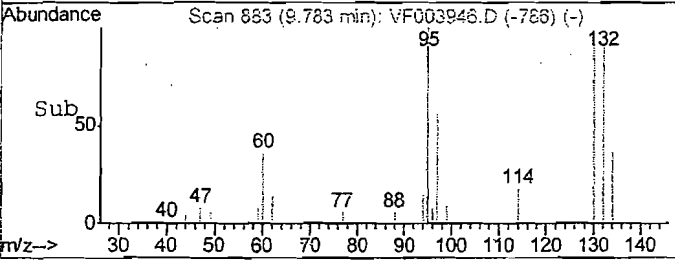


#27
 Trichloroethene
 Concen: 2.24 ug/l
 RT: 9.78 min Scan# 883
 Delta R.T. 0.02 min
 Lab File: VF003946.D
 Acq: 11 Sep 2006 15:35



Tgt Ion:130 Resp: 20553

Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	183.0
97	66.5	29.9	89.7
132	96.7	0.0	191.2



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003946.D
 Acq On : 11 Sep 2006 15:35
 Operator : SD
 Sample : X4423-07
 Misc : 5mL
 ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.743	108	115	143	rBV	295330	1421858	42.22%	8.661%
2	7.427	648	658	681	rBV	298510	1411340	41.91%	8.597%
3	8.566	756	767	782	rBV	200521	982577	29.18%	5.985%
4	9.393	832	846	870	rBV	516929	2668222	79.23%	16.253%
5	9.783	874	883	899	rVB2	22208	111923	3.32%	0.682%
6	12.237	1103	1117	1145	rBV	643451	3340837	99.20%	20.350%
7	15.362	1404	1415	1445	rBV	615259	3112043	92.41%	18.957%
8	18.071	1659	1674	1701	rBV	658249	3367748	100.00%	20.514%

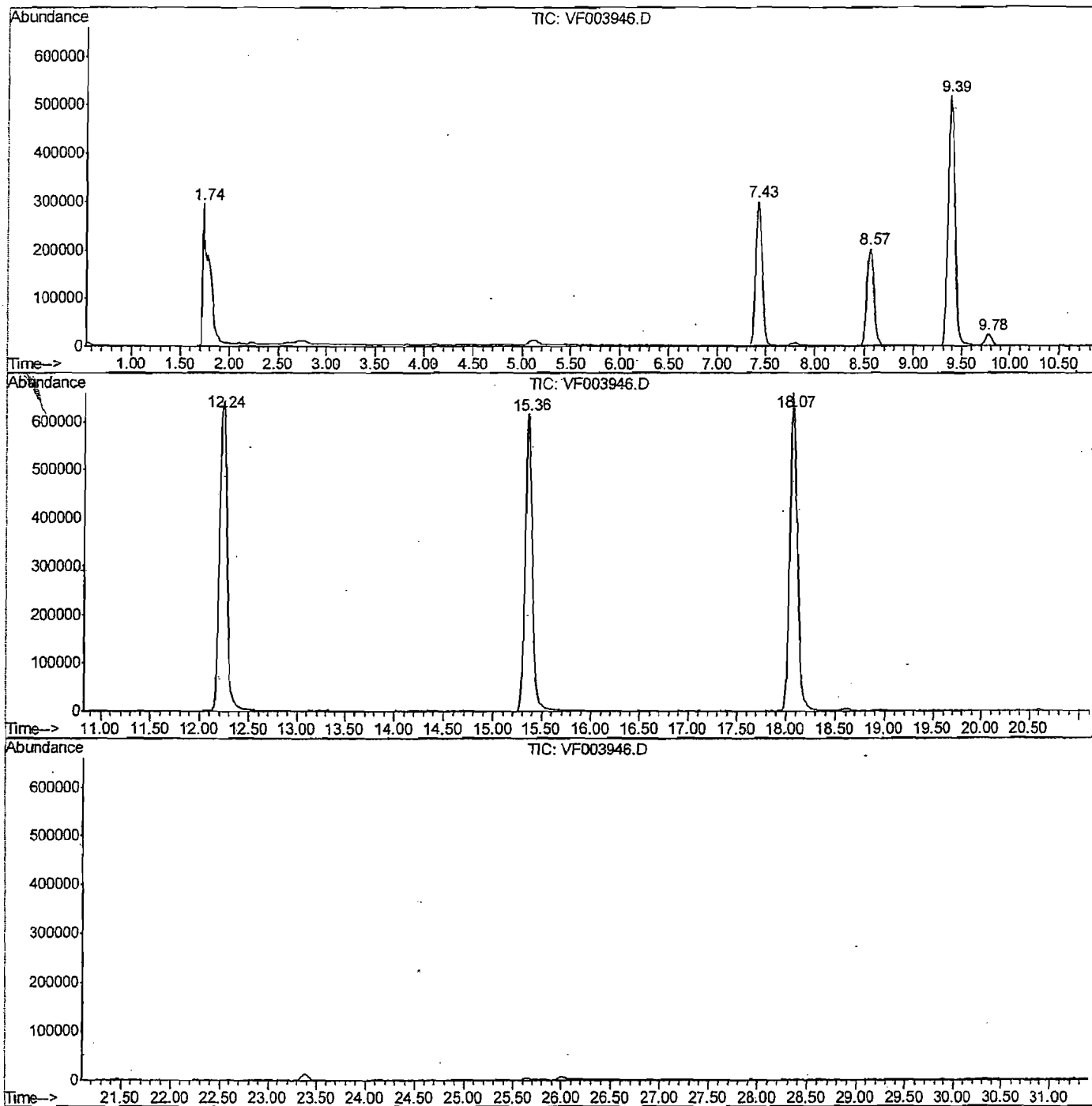
Sum of corrected areas: 16416548

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003946.D
Acq On : 11 Sep 2006 15:35
Operator : SD
Sample : X4423-07
Misc : 5mL
ALS Vial : 7 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



TentativeliprödenSäireh Compound Resultsummary.

DåaaaPåahh::ZZ\NH0EH0M1M8S0AFAFD0ATAV991006\
 DåaaaFFilæ::VFB089266DD
 AäqQOm : :111Säpp20066 155385
 Opeaåor : :SD
 Sämpe : :XX422307
 M8sc : :5mL
 AASSVåäl : :77 SämpeMMüippåer:11

QaantMehdd::TT\NH0EH0M1M8S0AFAFM0EH0DF099996EBWMM
 QaantTilæ : :

TTCLLbbäyy : :CC\DAEAESENESS02LL
 TTClmneggationPåamåess:REENTPP

|--Internal Standard--|

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-2 (11-13)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-08

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003947.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		8.0	JB
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-2(11-13)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-08

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003947.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-2 (11-13)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-08

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003947.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003947.D
 Acq On : 11 Sep 2006 16:13
 Operator : SD
 Sample : X4423-08
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 17:53:29 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

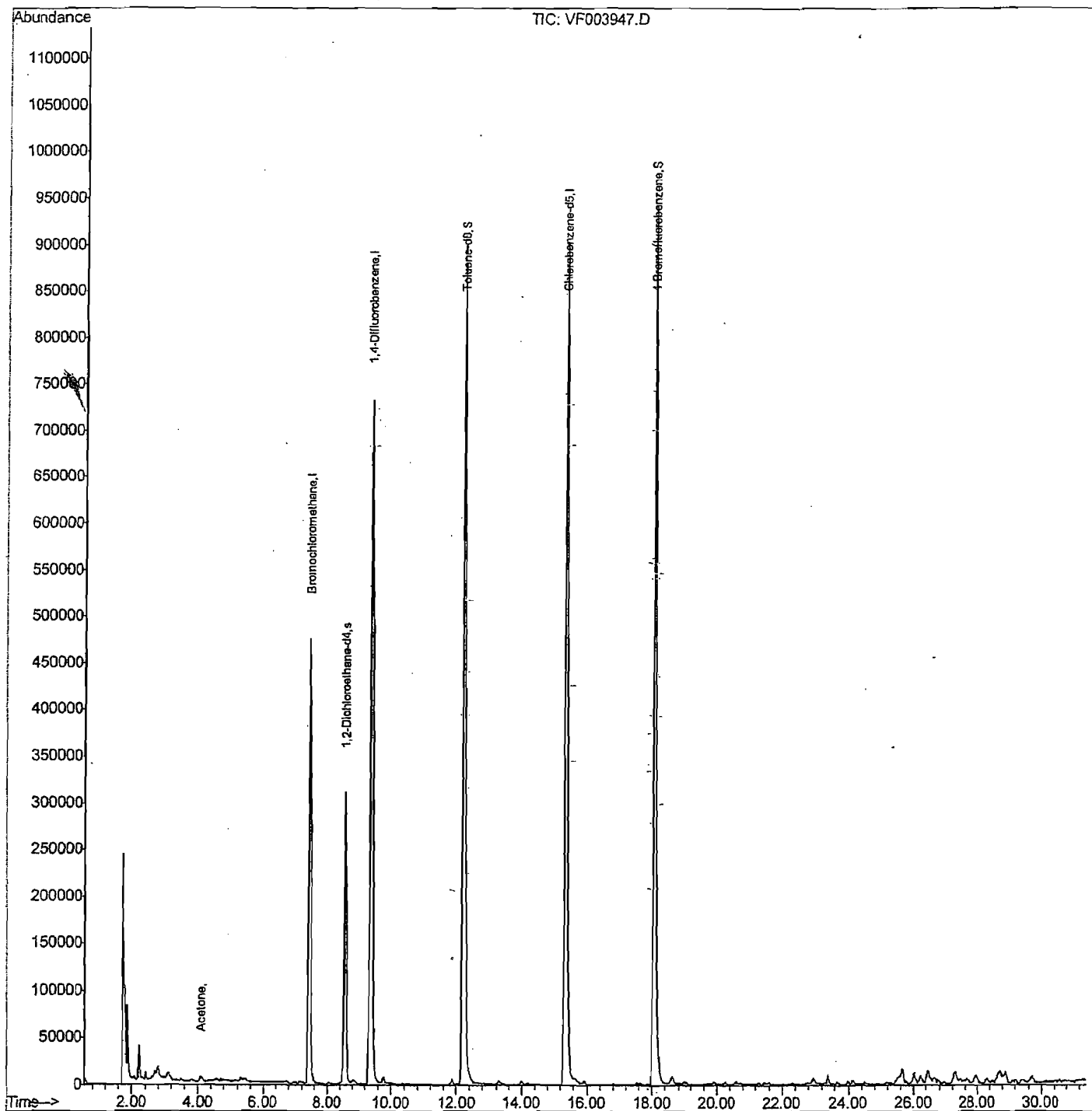
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.42	128	323568	50.00	ug/l	-0.01
21) 1,4-Difluorobenzene	9.40	114	1666219	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.37	117	1580491	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.56	65	503001	54.13	ug/l	0.00
Spiked Amount	50.000					Recovery = 108.26%
40) 4-Bromofluorobenzene	18.08	95	1085697	49.40	ug/l	0.01
Spiked Amount	50.000					Recovery = 98.80%
43) Toluene-d8	12.23	98	1784736	47.88	ug/l	0.00
Spiked Amount	50.000					Recovery = 95.76%
Target Compounds						
10) Acetone	4.10	43	14279	7.99	ug/l	Qvalue 87

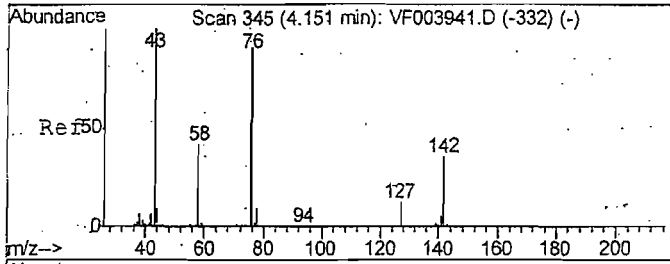
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003947.D
Acq On : 11 Sep 2006 16:13
Operator : SD
Sample : X4423-08
Misc : 5mL
ALS Vial : 8 Sample Multiplier: 1

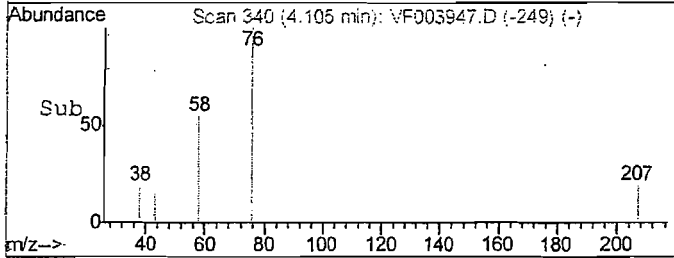
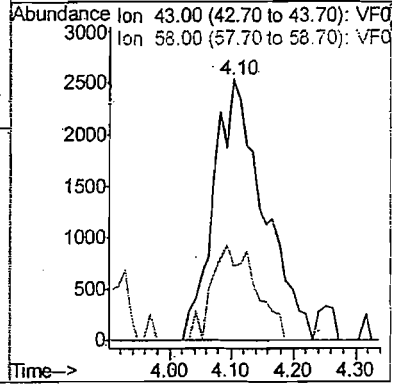
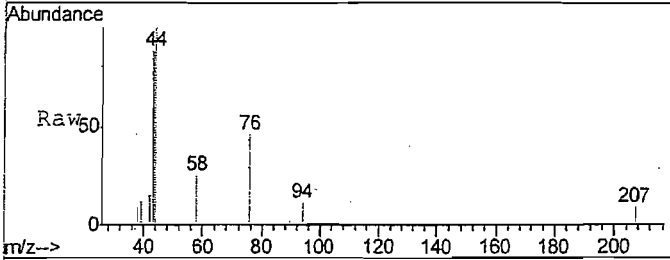
Quant Time: Sep 11 17:53:29 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D





#10
 Acetone
 Concen: 7.99 ug/l
 RT: 4.10 min Scan# 340
 Delta R.T. -0.05 min
 Lab File: VF003947.D
 Acq: 11 Sep 2006 16:13

Tgt Ion: 43 Resp: 14279
 Ion Ratio Lower Upper
 43 100
 58 32.8 32.6 49.0



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003947.D
 Acq On : 11 Sep 2006 16:13
 Operator : SD
 Sample : X4423-08
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.740	108	115	126	rBV	244708	919648	18.87%	3.982%
2	1.876	126	128	143	rVB	80145	184073	3.78%	0.797%
3	7.422	645	656	677	rBV	475202	2230793	45.77%	9.660%
4	8.555	742	764	784	rBV	310568	1569744	32.21%	6.797%
5	9.386	828	843	867	rBV	731874	3752558	76.99%	16.250%
6	12.228	1100	1114	1141	rBV	899099	4788221	98.24%	20.734%
7	15.355	1397	1412	1435	rBV	902890	4611277	94.61%	19.968%
8	18.075	1657	1671	1701	rBV	943024	4874172	100.00%	21.107%
9	25.647	2366	2391	2399	rBV5	17032	162681	3.34%	0.704%

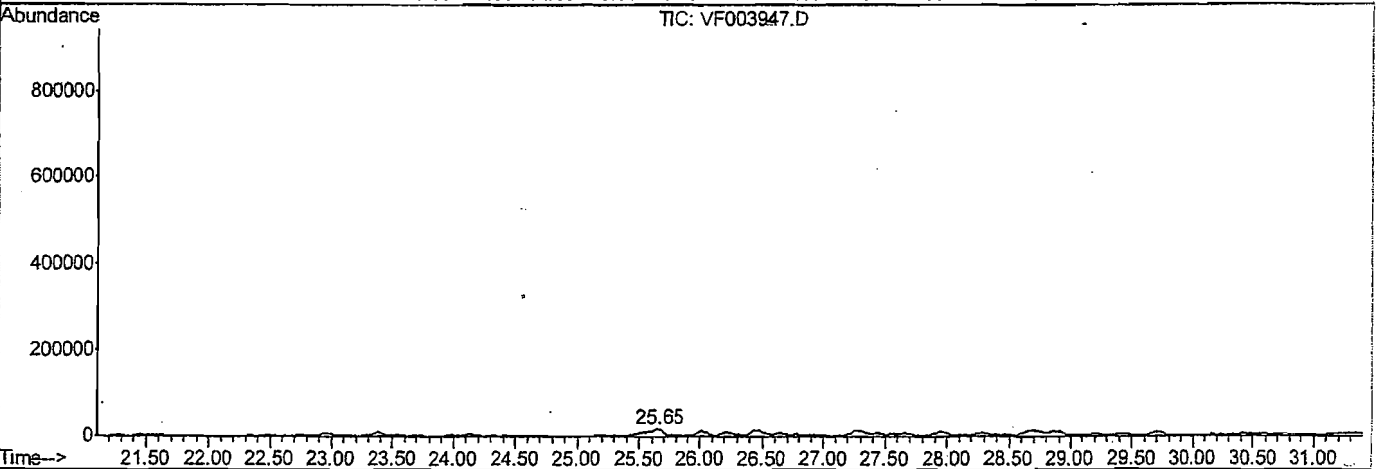
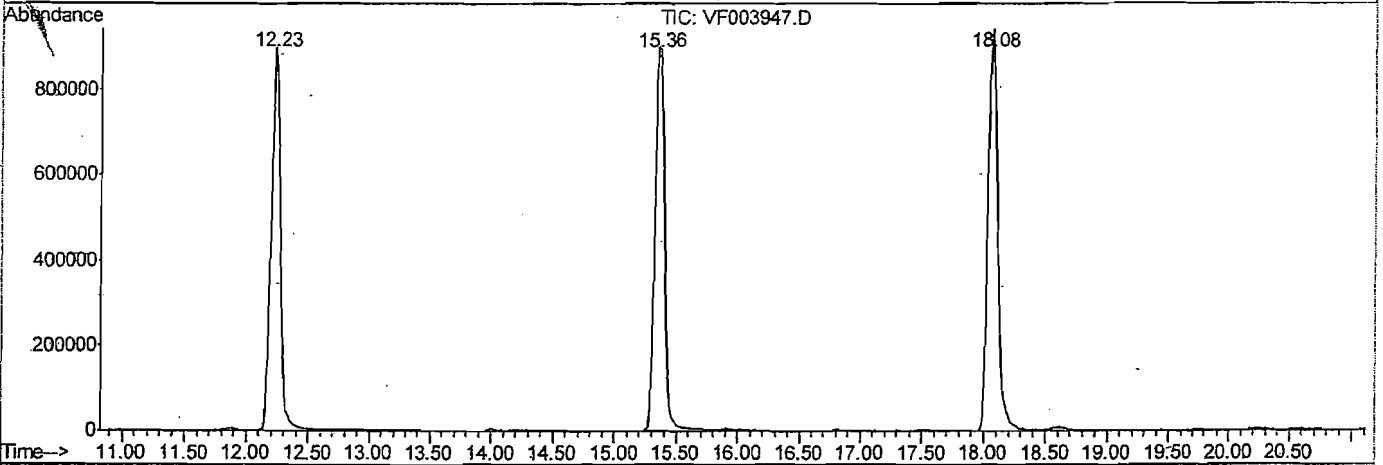
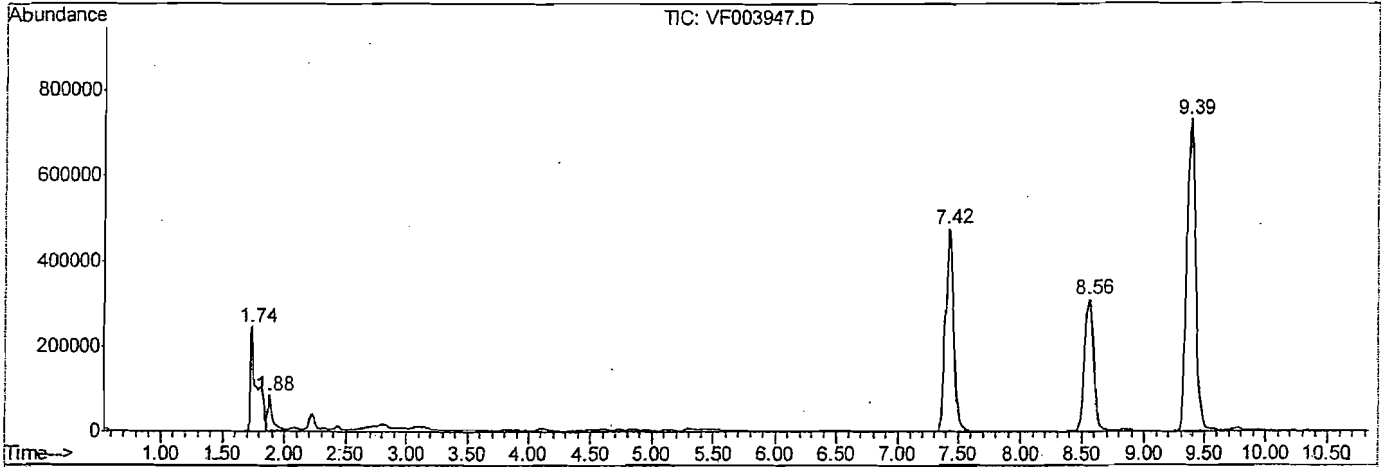
Sum of corrected areas: 23093167

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003947.D
Acq On : 11 Sep 2006 16:13
Operator : SD
Sample : X4423-08
Misc : 5mL
ALS Vial : 8 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentative Library Search Compound Report Summary

DaaaaPbahh::ZZ\NRESEEMIMSEVOAFAFNDAVAFVFB991066\
DaaaaFfilee::VF089977DD
AaqgOgn ::111Spp2006 1661B3
Operator ::SSD
Samplee ::XX4233008
Msec ::5mL
AASSVaal::88 SampleMultiplier:11

QuantMehdd::TT\NRESEEMIMSEVOAFAFNDAVAFVFB999966EWWW
QuantTfilee ::

TTCCLibbaay ::CC\NRESEEMIMSEVOAFAFNDAVAFVFB999966EWWW
TTCIInteggaatinnPaarametess:REENTTP

TIC Top Hit name	RT	EstConc	Units	Response	---Internal Standard---		
					#	RT	Resp Conc

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-1 (58-60)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-09

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003948.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-1 (58-60)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-09

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003948.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-1(58-60)

Lab Name: Chentech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-09

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003948.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003948.D
 Acq On : 11 Sep. 2006 16:52
 Operator : SD
 Sample : X4423-09
 Misc : 5mL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 19:03:42 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

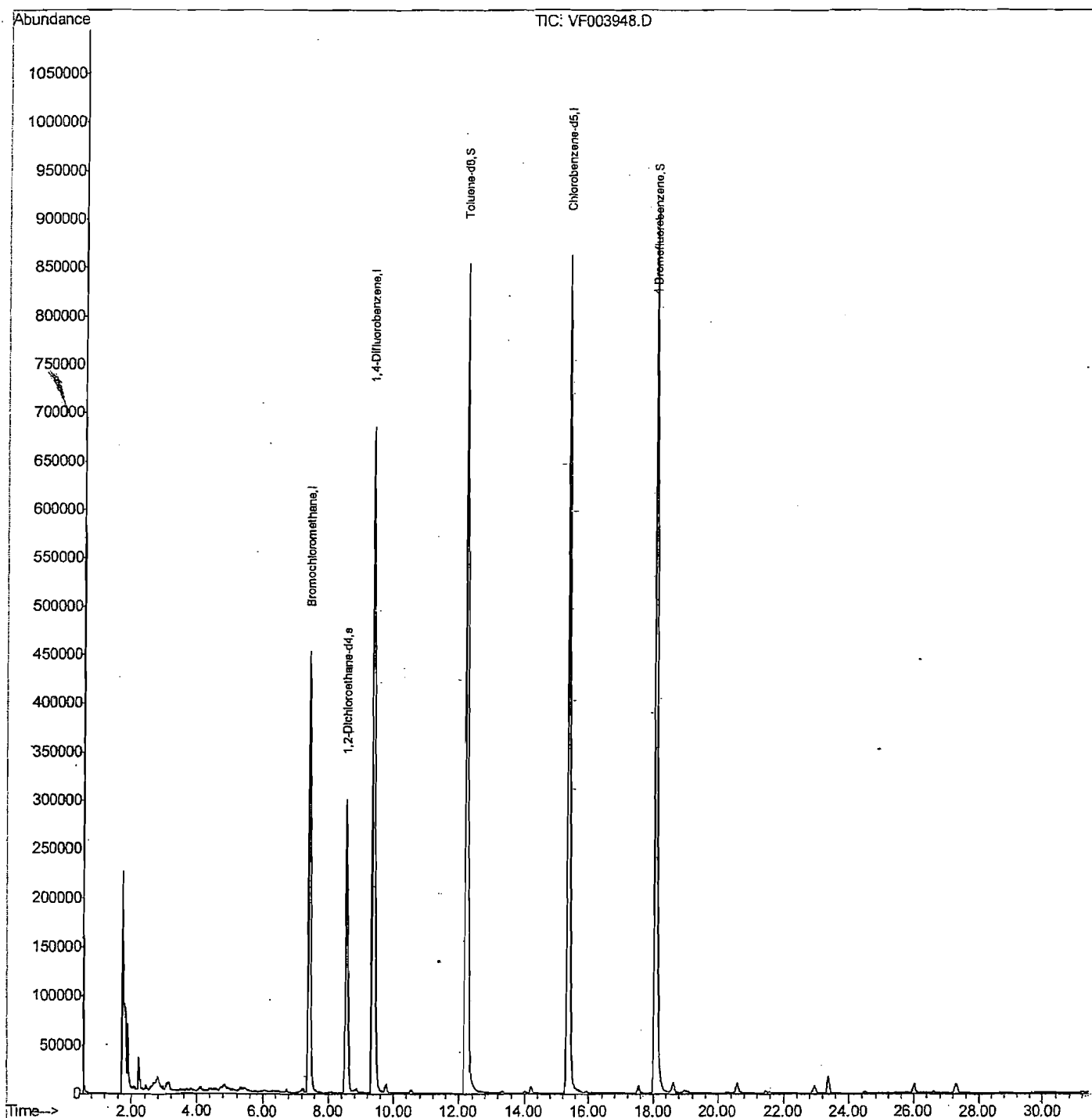
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.43	128	310198	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.39	114	1544633	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.37	117	1493076	50.00	ug/l	0.01
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.56	65	475894	53.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.84%	
40) 4-Bromofluorobenzene	18.07	95	1047331	50.45	ug/l	0.01
Spiked Amount	50.000		Recovery	=	100.90%	
43) Toluene-d8	12.24	98	1663675	47.24	ug/l	0.02
Spiked Amount	50.000		Recovery	=	94.48%	

Target Compounds Qvalue

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

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003948.D
Acq On : 11 Sep 2006 16:52
Operator : SD
Sample : X4423-09
Misc : 5mL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 19:03:42 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\msvoa_f\data\VF091106\VF003941.D



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003948.D
 Acq On : 11 Sep 2006 16:52
 Operator : SD
 Sample : X4423-09
 Misc : 5mL
 ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.732	107	114	126	rBV	227017	798755	16.97%	3.696%
2	1.878	126	128	140	rVB	67008	151692	3.22%	0.702%
3	7.431	646	657	683	rBV	452122	2148022	45.64%	9.939%
4	8.564	754	765	782	rBV2	299746	1467690	31.19%	6.791%
5	9.392	829	844	866	rBV	685037	3526492	74.93%	16.317%
6	12.242	1101	1116	1145	rBV	854402	4422486	93.97%	20.463%
7	15.370	1400	1414	1441	rBV	861930	4390679	93.30%	20.316%
8	18.074	1658	1672	1707	rBV	911428	4706191	100.00%	21.776%

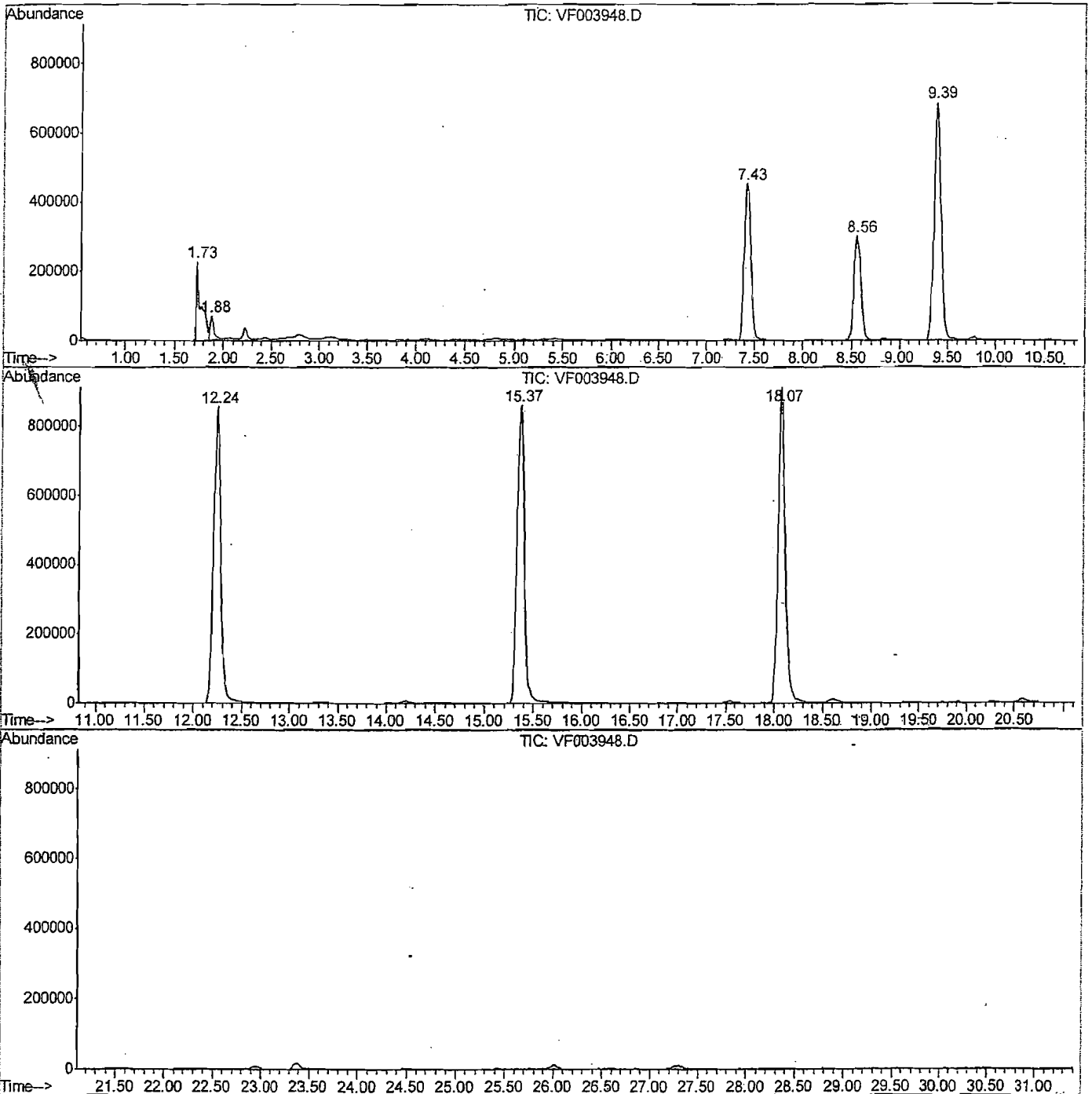
Sum of corrected areas: 21612007

LSC Report - Integrated Chromatogram.

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003948.D
Acq On : 11 Sep 2006 16:52
Operator : SD
Sample : X4423-09
Misc : 5mL
ALS Vial : 9 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentative library search Compound Report summary

Data Path: ZZ\NRESEEM\METHODS\VF001066\
Data File: VF009988DD
AcqOn : 111Sep2006 166522
Operator : SBD
Sample : XK423099
Mlsc : 5ml
ASSVal : 99 SampleMultiplier: 11

QuantMethod: TT\NRESEEM\METHODS\VF009988DD\VF009988DD\BFWMM
QuantFile :

Library : CC\DATABASES\SS02LL
IntegrationParameters: REENTTP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--		
					#	RT	Resp Conc

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-1 (38-40)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-10

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003949.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-1(38-40)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-10

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003949.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-1 (38-40)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-10

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003949.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003949.D
 Acq On : 11 Sep 2006 17:31
 Operator : SD
 Sample : X4423-10
 Misc : 5mL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 19:06:28 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.44	128	323195	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.39	114	1589996	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.36	117	1499255	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.57	65	471251	50.77	ug/l	0.01
Spiked Amount	50.000					Recovery = 101.54%
40) 4-Bromofluorobenzene	18.07	95	1008952	48.40	ug/l	0.00
Spiked Amount	50.000					Recovery = 96.80%
43) Toluene-d8	12.24	98	1667380	47.15	ug/l	0.02
Spiked Amount	50.000					Recovery = 94.30%

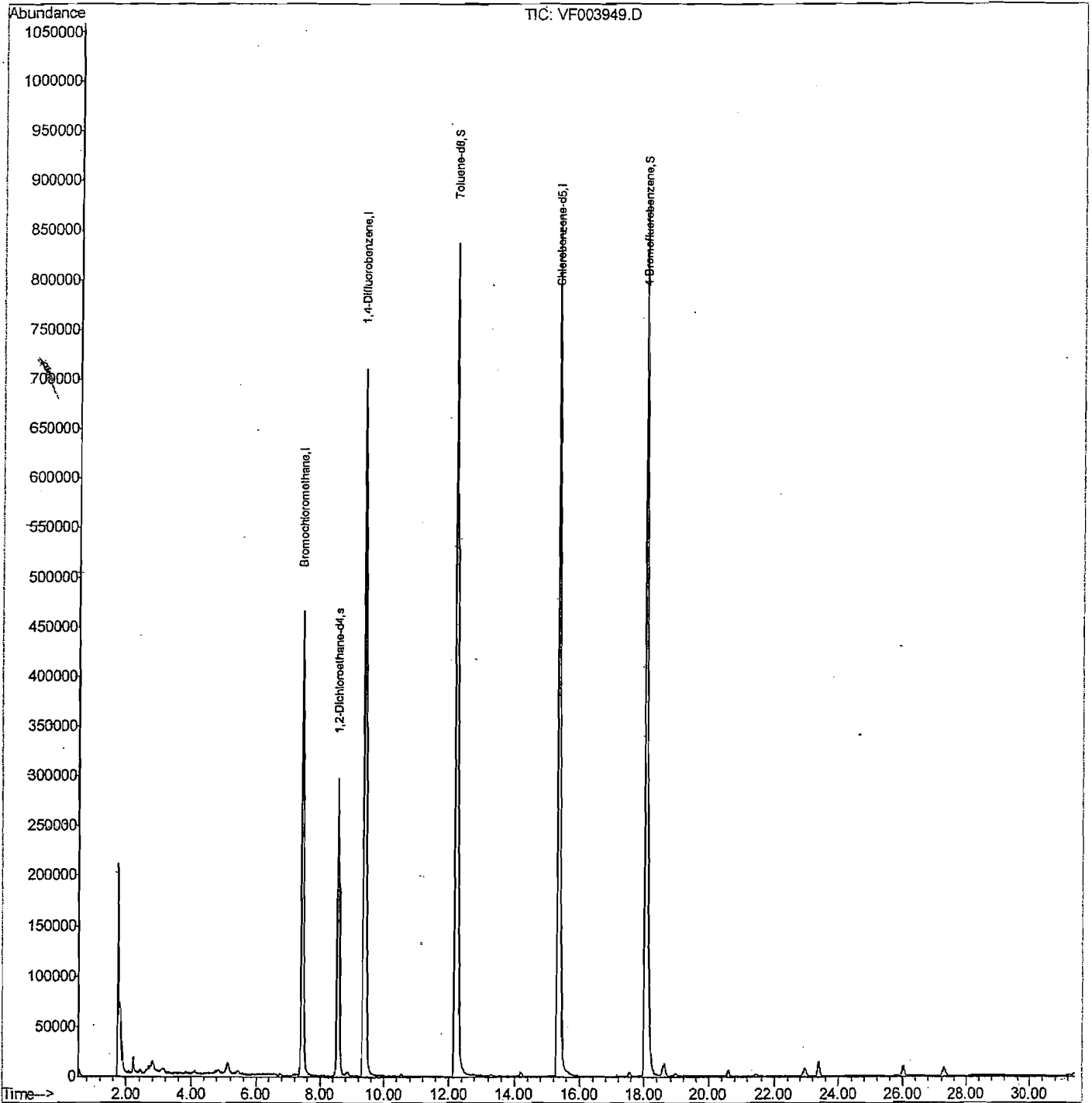
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003949.D
Acq On : 11 Sep 2006 17:31
Operator : SD
Sample : X4423-10
Misc : 5mL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 11 19:06:28 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003949.D
 Acq On : 11 Sep 2006 17:31
 Operator : SD
 Sample : X4423-10
 Misc : 5mL
 ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.739	107	115	127	rBV	212188	659727	14.55%	3.102%
2	7.437	646	658	681	rBV2	464816	2217759	48.92%	10.427%
3	8.569	753	766	784	rBV	297181	1452393	32.04%	6.829%
4	9.395	832	845	868	rBV	710365	3607862	79.58%	16.963%
5	12.243	1103	1117	1148	rBV	836395	4411345	97.30%	20.741%
6	15.361	1401	1414	1449	rBV2	864502	4386261	96.75%	20.623%
7	18.070	1658	1672	1696	rBV2	881030	4533631	100.00%	21.316%

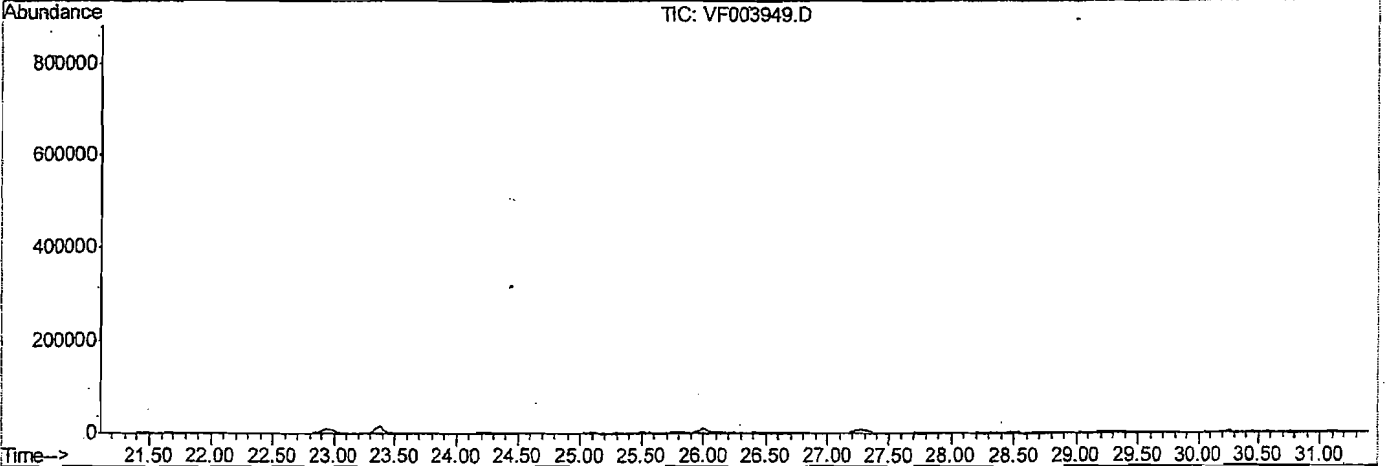
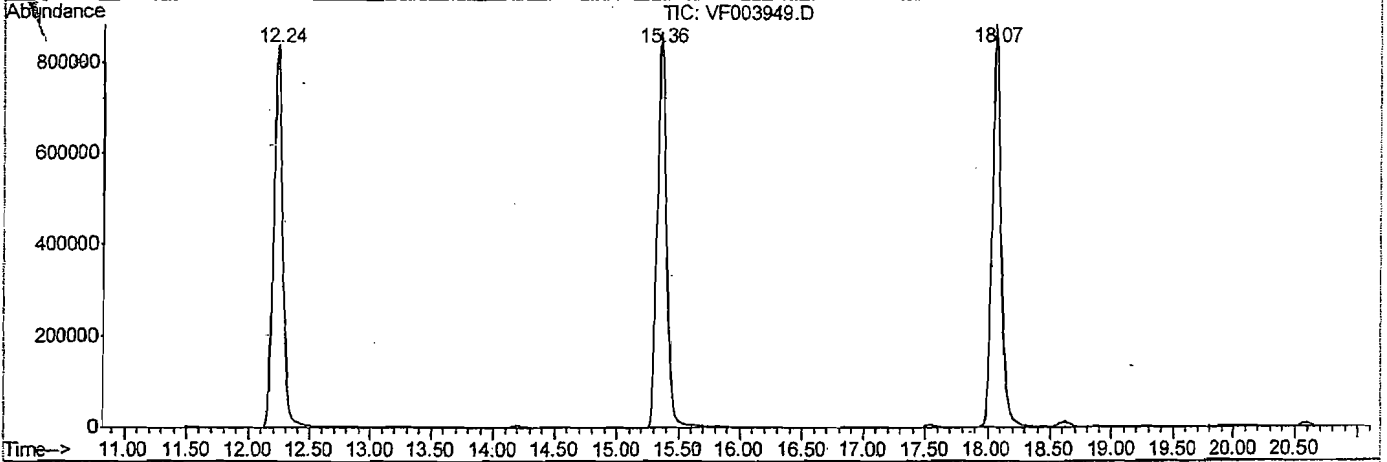
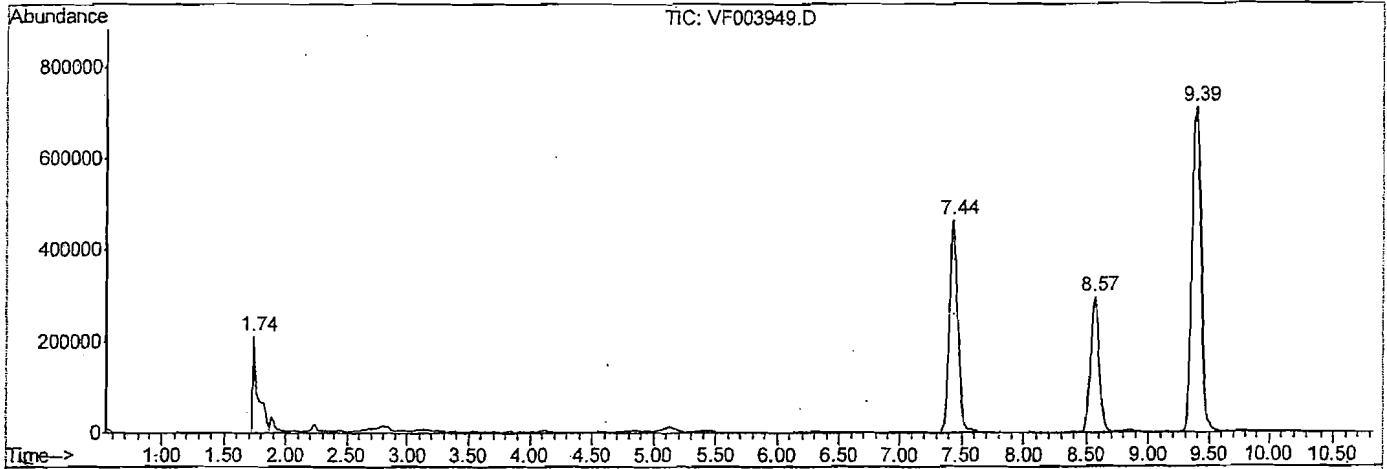
Sum of corrected areas: 21268978

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003949.D
Acq On : 11 Sep 2006 17:31
Operator : SD
Sample : X4423-10
Misc : 5mL
ALS Vial : 10 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentatively Identified Compound Report Summary

DbaaaPrah::ZZ\NREBHEMIMESVOAFRDAVVF091066\
DbaaaFFlæ::VVF069999DD
AaqOOn ::111Sep2006 117331
Opeator ::SBD
Sampæe ::X4223100
Mssc ::5mL
AASSVaal::100 SampæeMultiplæ:r:11

QaantMehdd::TT\NREBHEMIMESVOAFRDAVVF0909065BFWMM
QaantTflæ ::

TTCCLibary ::CC\DATA\BIBENESS02LL
TTCIIntegratånPææææææææææ:REENTTP

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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-----|-----Internal Standard-----|-----

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-1 (28-30)

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Matrix (soil/water): WATER Lab Sample ID: X4423-11
 Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003950.D
 Level (low/med): _____ Date Received: 9/7/06
 % Moisture: not dec. 100 Date Analyzed: 9/11/06
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		50	U
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		1.8	J
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-1 (28-30)

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Matrix (soil/water): WATER Lab Sample ID: X4423-11
 Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003950.D
 Level (low/med): _____ Date Received: 9/7/06
 % Moisture: not dec. 100 Date Analyzed: 9/11/06
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-1 (28-30)

Lab Name: Chentech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-11

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003950.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003950.D
 Acq On : 11 Sep 2006 18:10
 Operator : SD
 Sample : X4423-11
 Misc : 5mL
 ALS Vial : 11 Sample Multiplier: 1

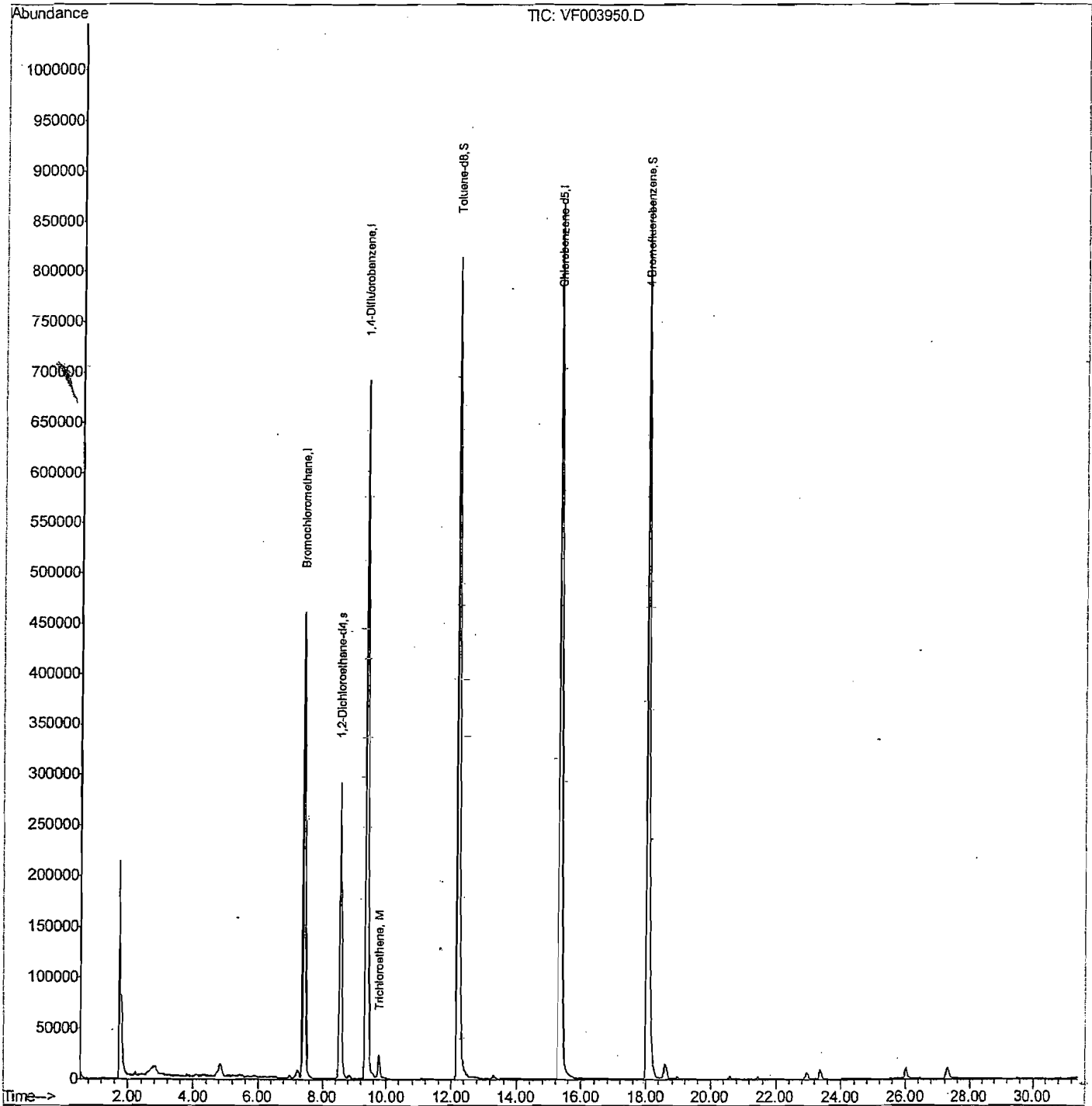
Quant Time: Sep 12 00:37:04 2006
 Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

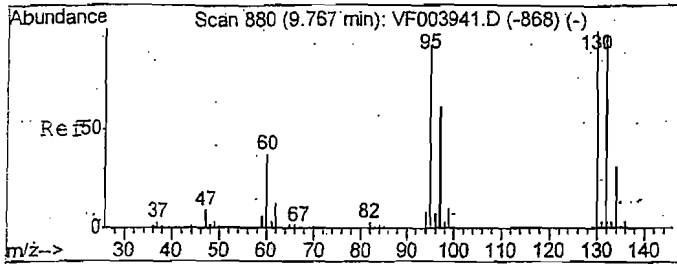
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.43	128	313553	50.00	ug/1	0.00
21) 1,4-Difluorobenzene	9.40	114	1591397	50.00	ug/1	0.00
37) Chlorobenzene-d5	15.36	117	1485852	50.00	ug/1	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.57	65	463821	51.51	ug/1	0.00
Spiked Amount	50.000		Recovery	=	103.02%	
40) 4-Bromofluorobenzene	18.07	95	1003030	48.55	ug/1	0.00
Spiked Amount	50.000		Recovery	=	97.10%	
43) Toluene-d8	12.24	98	1632234	46.57	ug/1	0.02
Spiked Amount	50.000		Recovery	=	93.14%	
Target Compounds						
27) Trichloroethene	9.77	130	21820	1.75	ug/1	Qvalue 95

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

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003950.D
Acq On : 11 Sep 2006 18:10
Operator : SD
Sample : X4423-11
Misc : 5mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 00:37:04 2006
Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

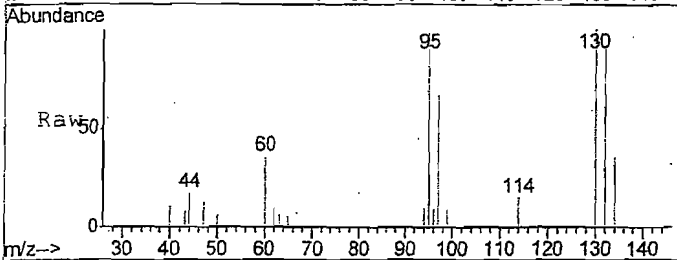




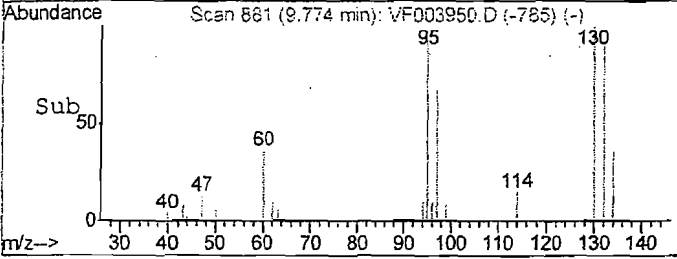
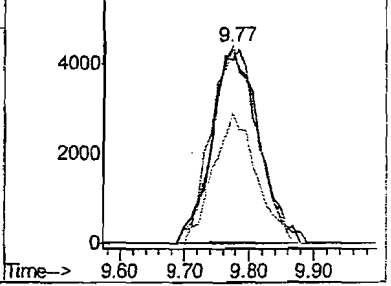
#27
 Trichloroethene
 Concen: 1.75 ug/l
 RT: 9.77 min Scan# 881
 Delta R.T. 0.01 min
 Lab File: VF003950.D
 Acq: 11 Sep 2006 18:10

Tgt Ion: 130 Resp: 21820

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	183.0
97	61.0	29.9	89.7
132	98.0	0.0	191.2



Abundance
 Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VF
 Ion 97.00 (96.70 to 97.70): VF
 Ion 132.00 (131.70 to 132.70): V



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003950.D
 Acq On : 11 Sep 2006 18:10
 Operator : SD
 Sample : X4423-11
 Misc : 5mL
 ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.741	108	115	138	rBV	213941	794100	17.58%	3.743%
2	7.426	647	657	683	rVB	460294	2172398	48.10%	10.239%
3	8.566	749	766	784	rBV2	291085	1436875	31.82%	6.772%
4	9.396	829	845	871	rBV	692269	3617798	80.11%	17.051%
5	12.237	1101	1116	1150	rBV	813759	4328624	95.85%	20.401%
6	15.362	1401	1414	1441	rBV	866996	4351687	96.36%	20.510%
7	18.071	1654	1672	1708	rBV	870742	4515984	100.00%	21.284%

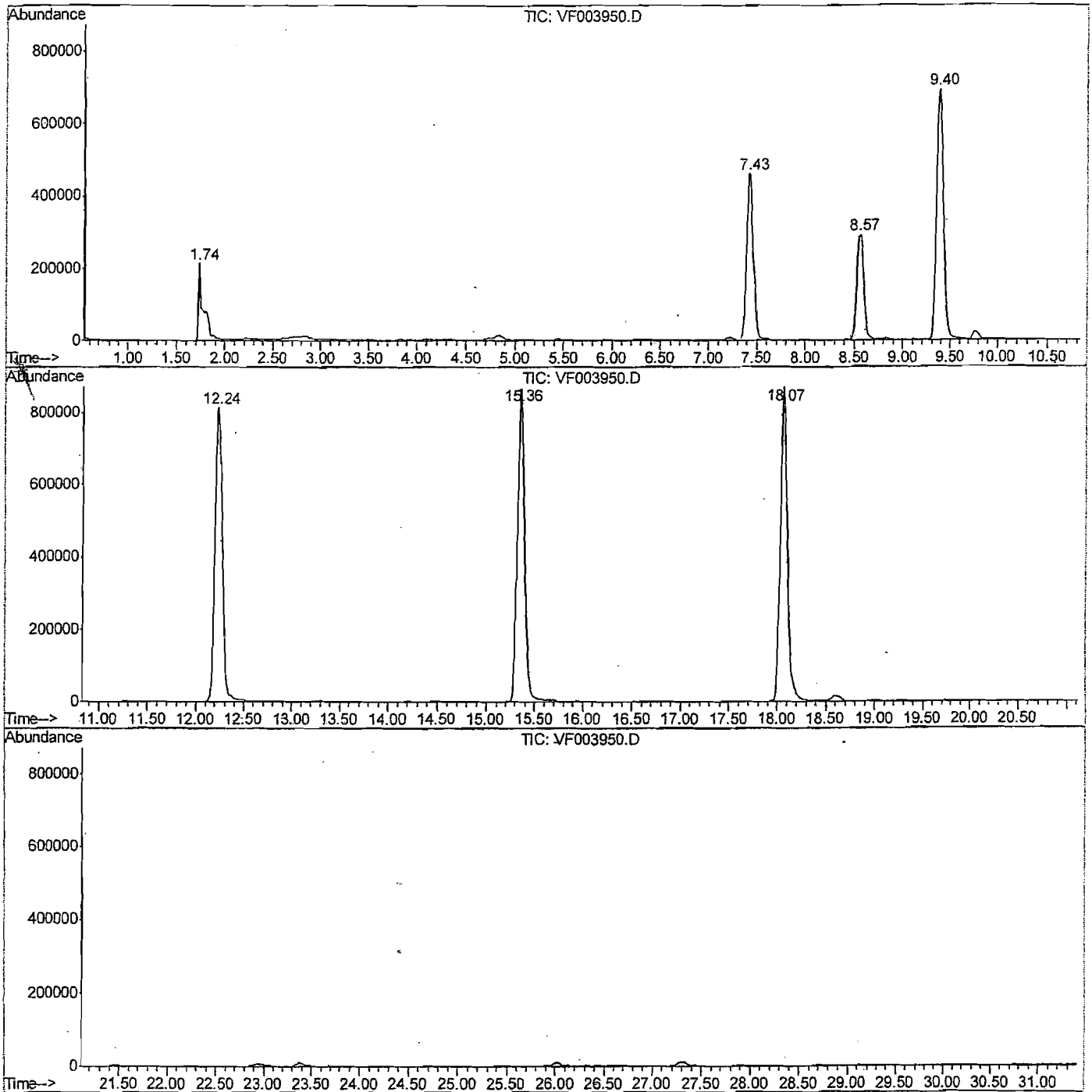
Sum of corrected areas: 21217466

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003950.D
Acq On : 11 Sep 2006 18:10
Operator : SD
Sample : X4423-11
Misc : 5mL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title .:

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentatively Identified Compound Report Summary

Data Path: ZZ\NEPHEM\MSS09AF\DATA\VF091066\
Data File: VF0909980DD
Acq On: 11 Sep 2006 18:10
Operator: SD
Sample: X423311
MISC: 5mL
ASSVial: 111 Sample Multiplier: 11

Quant Method: X423311\MSS09AF\METHOD\F0909065BFWMM
Quant File:

Library: CC\DATABASES\NLS02LL
Library Path: REENTTP

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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|--Internal Standard--|

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-1 (18-20)

Lab Name: Chentech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Matrix (soil/water): WATER Lab Sample ID: X4423-12
 Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003951.D
 Level (low/med): _____ Date Received: 9/7/06
 % Moisture: not dec. 100 Date Analyzed: 9/11/06
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		5.8	JB
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSH-GP-1(18-20)

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Matrix (soil/water): WATER Lab Sample ID: X4423-12
 Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003951.D
 Level (low/med): _____ Date Received: 9/7/06
 % Moisture: not dec. 100 Date Analyzed: 9/11/06
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSH-GP-1(18-20)

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-12

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003951.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003951.D
 Acq On : 11 Sep 2006 18:49
 Operator : SD
 Sample : X4423-12
 Misc : 5mL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 00:38:53 2006
 Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

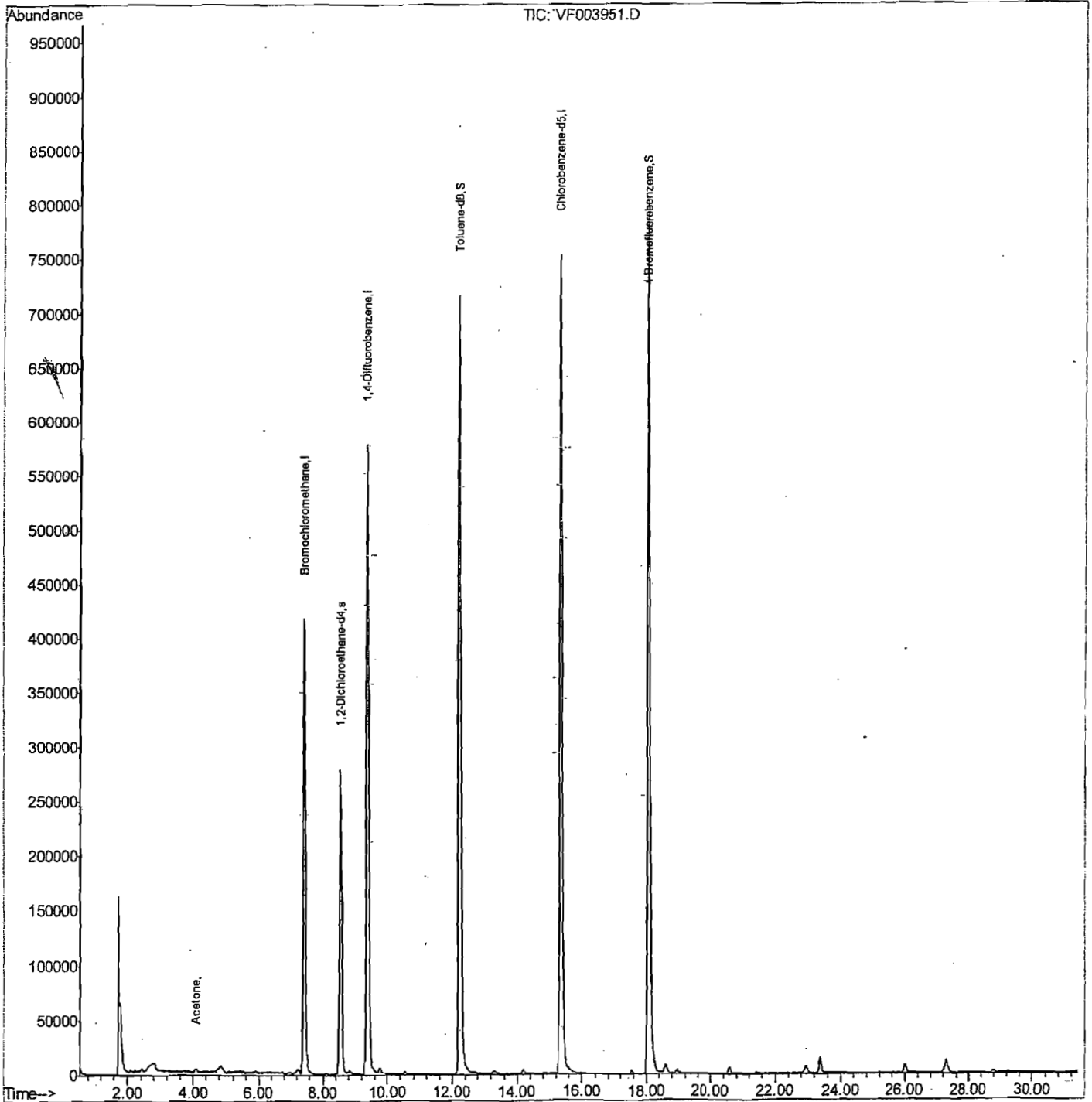
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.43	128	277780	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.40	114	1297741	50.00	ug/l	0.01
37) Chlorobenzene-d5	15.36	117	1305908	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.56	65	449089	56.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.60%	
40) 4-Bromofluorobenzene	18.06	95	942710	51.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.84%	
43) Toluene-d8	12.24	98	1423659	46.22	ug/l	0.02
Spiked Amount	50.000		Recovery	=	92.44%	
Target Compounds						
10) Acetone	4.11	43	8943	5.83	ug/l	88

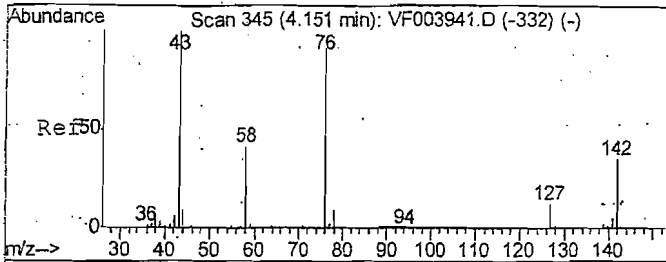
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003951.D
Acq On : 11 Sep 2006 18:49
Operator : SD
Sample : X4423-12
Misc : 5mL
ALS Vial : 12 Sample Multiplier: 1

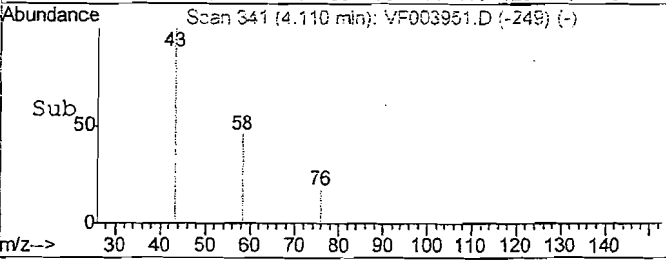
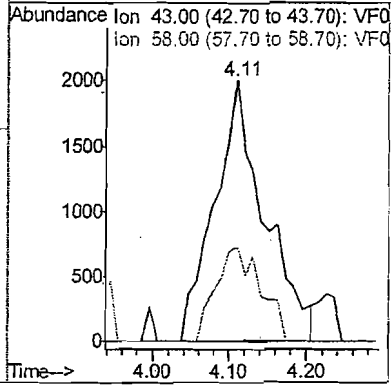
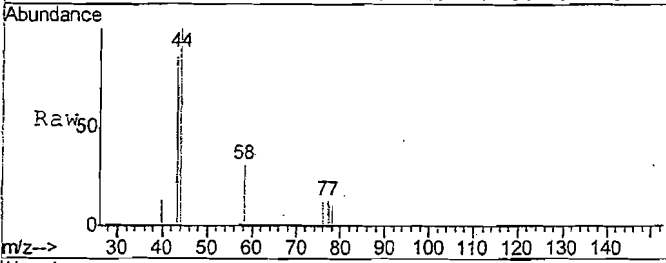
Quant Time: Sep 12 00:38:53 2006
Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D





#10
 Acetone
 Concen: 5.83 ug/l
 RT: 4.11 min Scan# 341
 Delta R.T. -0.04 min
 Lab File: VF003951.D
 Acq: 11 Sep 2006 18:49

Tgt Ion: 43 Resp: 8943
 Ion Ratio Lower Upper
 43 100
 58 33.1 32.6 49.0



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003951.D
 Acq On : 11 Sep 2006 18:49
 Operator : SD
 Sample : X4423-12
 Misc : 5mL
 ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.740	109	115	138	rBV	163327	571126	13.55%	3.062%
2	7.430	648	658	685	rVB	417041	1939622	46.02%	10.401%
3	8.562	755	766	784	rBV2	277774	1369336	32.49%	7.343%
4	9.388	831	845	865	rBV	578585	2977492	70.64%	15.966%
5	12.230	1103	1116	1142	rBV	717048	3784227	89.78%	20.292%
6	15.358	1399	1414	1440	rBV	752935	3792160	89.96%	20.334%
7	18.076	1659	1673	1707	rBV	805290	4215172	100.00%	22.603%

Sum of corrected areas: 18649135

TSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003951.D

Acq On : 11 Sep 2006 18:49

Operator : SD

Sample : X4423-12

Misc : 5ml

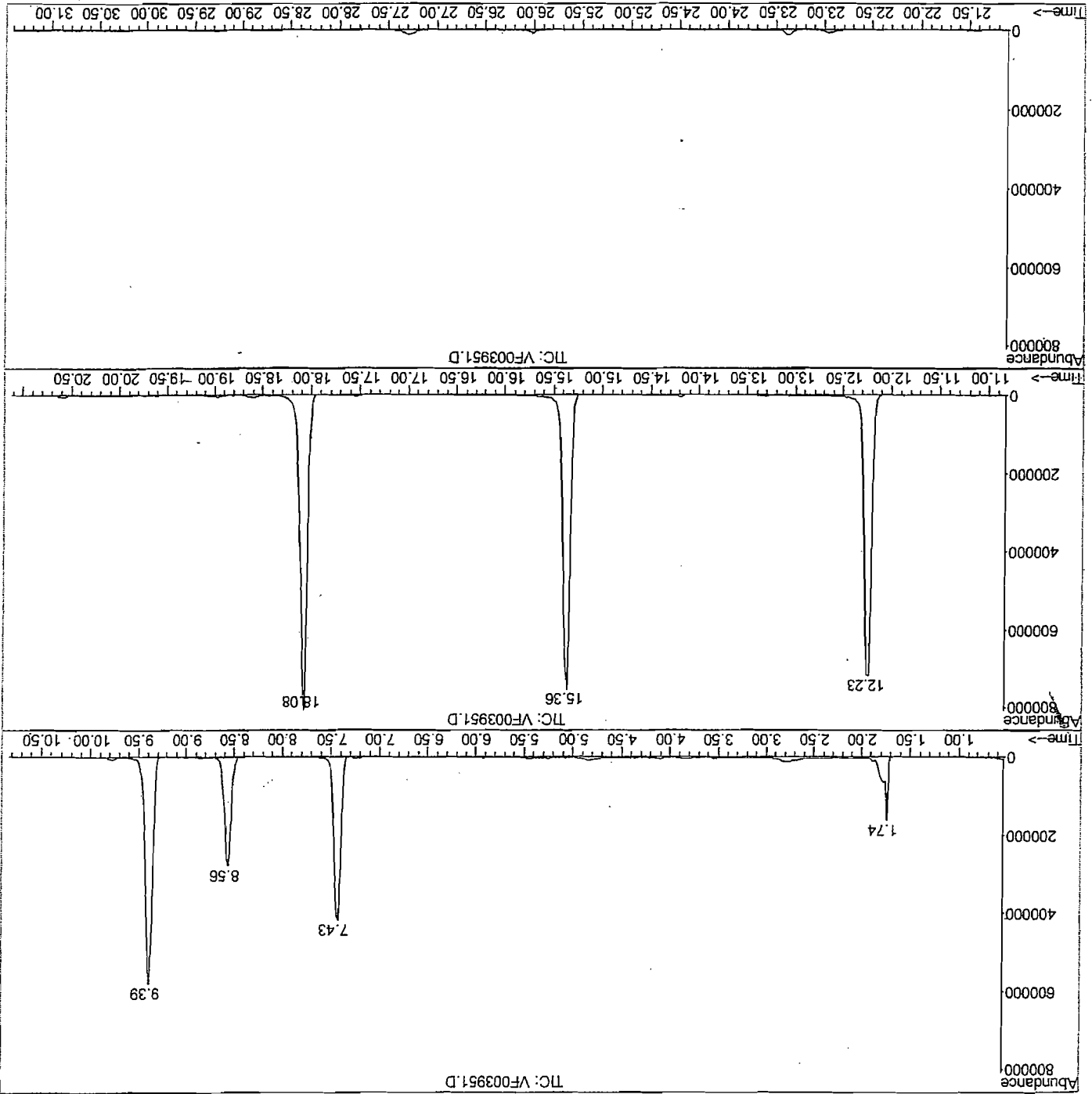
ALS Vial : 12 Sample Multiplier: 1

Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPM.M

Quant Title :

TIC Library : C:\DATABASE\MIST02.L

TIC Integration Parameters: RTEINT.P



Tentativelbräde nSä fied Compound Res6it summary.

DäaaaPräh::ZZ\N888888\N888888\VF00991066\
DäaaaFfiäe::VF009951DD
ÄäqQÖän ::111S88p20066 188489
Öpääör ::S8D
Sämpäe ::XX4223122
MMäsc ::588L
ÄÄSVVääl ::122 SämpäeMMhiipäer:11

QqantMshhd::XX\N888888\N888888\VF00990665888888
QqantTfiäe ::

TTCLlibäy ::CC\N888888\N888888\VF00990665888888
TTCLlibäy ::CC\N888888\N888888\VF00990665888888

|--Internal Standard--|

TIC Top Hit name RT EstConc Units Response |# RT Resp Conc|

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Matrix (soil/water): WATER Lab Sample ID: X4423-13
 Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003934.D
 Level (low/med): _____ Date Received: 9/7/06
 % Moisture: not dec. 100 Date Analyzed: 9/9/06
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		11	JB
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-13

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003934.D

Level (low/med): _____ Date Received: 9/7/06

% Moisture: not dec. 100 Date Analyzed: 9/9/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: X4423-13

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003934.D

Level (low/med): _____ Date Received: 9/7/2006

% Moisture: not dec. 100 Date Analyzed: 9/9/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 007440-37-1	Argon	1.78	12	J

Comments: _____

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003934.D
 Acq On : 9 Sep 2006 23:38
 Operator : SD
 Sample : X4423-13
 Misc : 5mL
 ALS Vial : 13 Sample Multiplier: 1

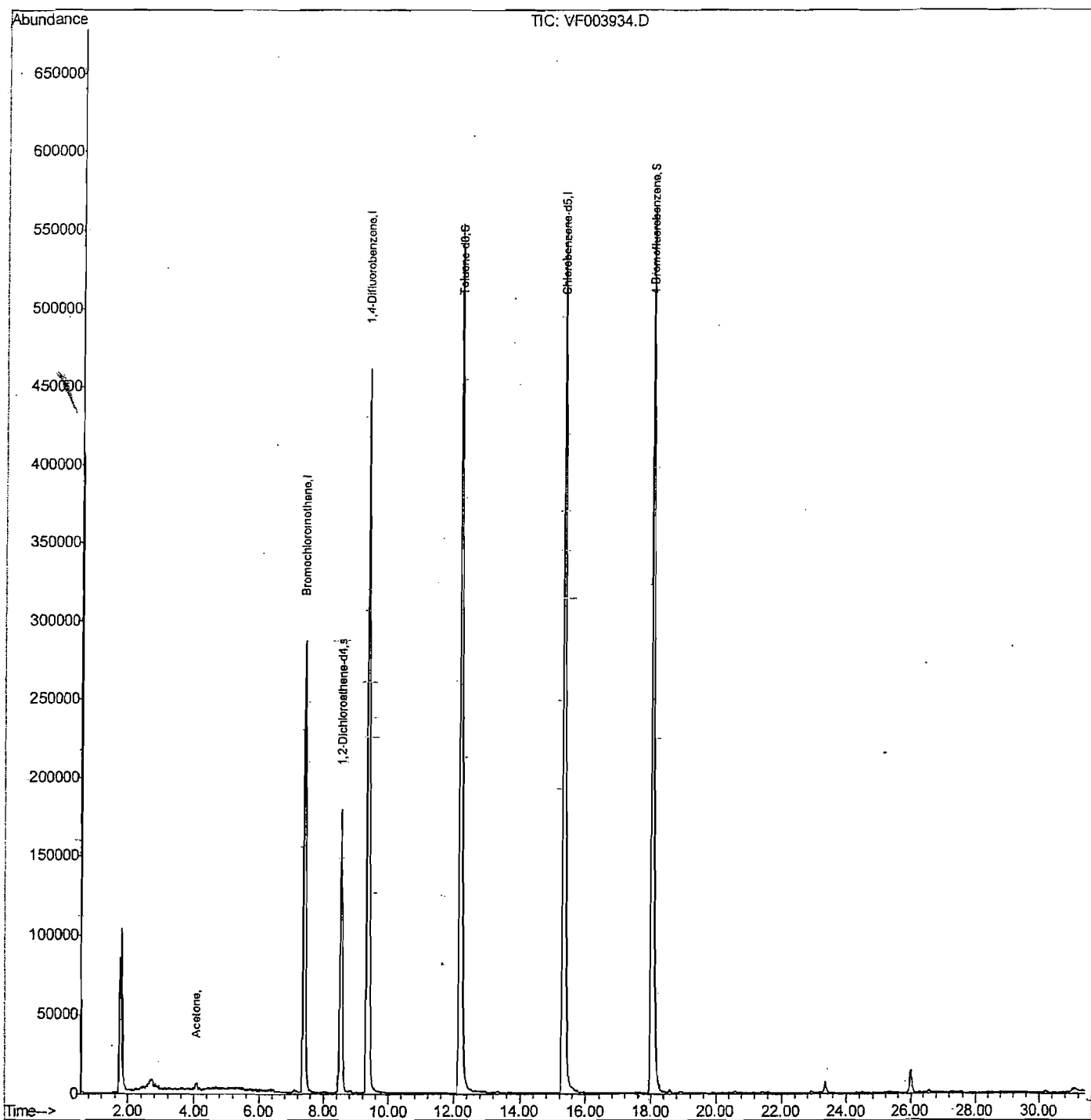
Quant Time: Sep 11 11:40:08 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\MSVOA_F\Data\VF090906\VF003927.D

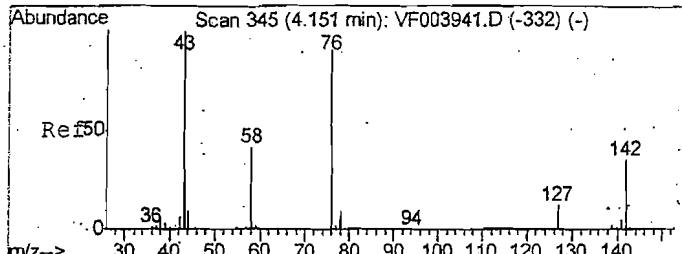
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.41	128	197476	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.37	114	1045219	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1008113	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.54	65	286229	47.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.60%	
40) 4-Bromofluorobenzene	18.05	95	682723	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
43) Toluene-d8	12.21	98	1119478	48.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.90%	
Target Compounds						
10) Acetone	4.07	43	13049	11.26	ug/l #	Qvalue 80

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

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003934.D
Acq On : 9 Sep 2006 23:38
Operator : SD
Sample : X4423-13
Misc : 5mL
ALS Vial : 13 Sample Multiplier: 1

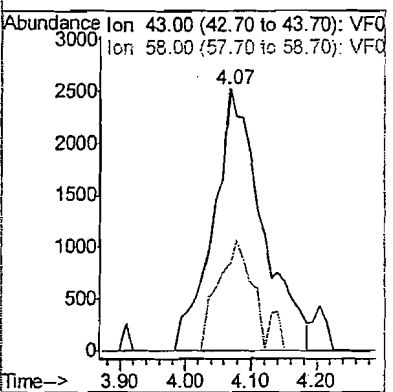
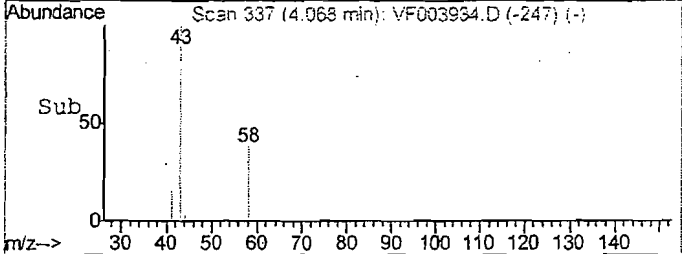
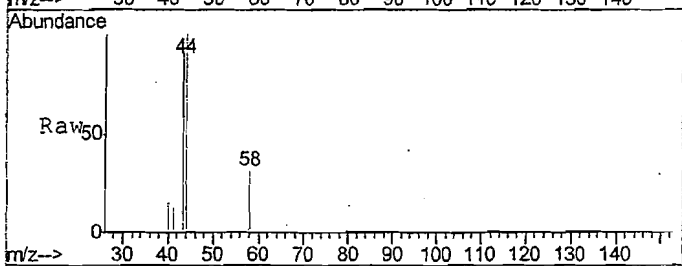
Quant Time: Sep 11 11:40:08 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 10:32:24 2006
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D





#10
 Acetone
 Concen: 11.26 ug/l
 RT: 4.07 min Scan# 337
 Delta R.T. -0.05 min
 Lab File: VF003934.D
 Acq: 9 Sep 2006 23:38

Tgt Ion	Resp	Lower	Upper
43	13049	100	
58	28.7	32.8	49.2#



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003934.D
 Acq On : 9 Sep 2006 23:38
 Operator : SD
 Sample : X4423-13
 Misc : 5mL
 ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LFPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.727	107	114	116	rBV	85503	168167	5.66%	1.221%
2	1.778	116	119	140	rVB	102330	322842	10.87%	2.343%
3	7.408	645	656	676	rBV	286548	1333067	44.88%	9.675%
4	8.538	751	764	785	rBV	178934	881793	29.68%	6.400%
5	9.367	831	843	860	rBV	460847	2336547	78.66%	16.958%
6	12.209	1100	1114	1141	rBV	553208	2885053	97.12%	20.939%
7	15.328	1398	1411	1449	rBV	558540	2880462	96.97%	20.906%
8	18.045	1658	1670	1699	rBV	564219	2970511	100.00%	21.559%

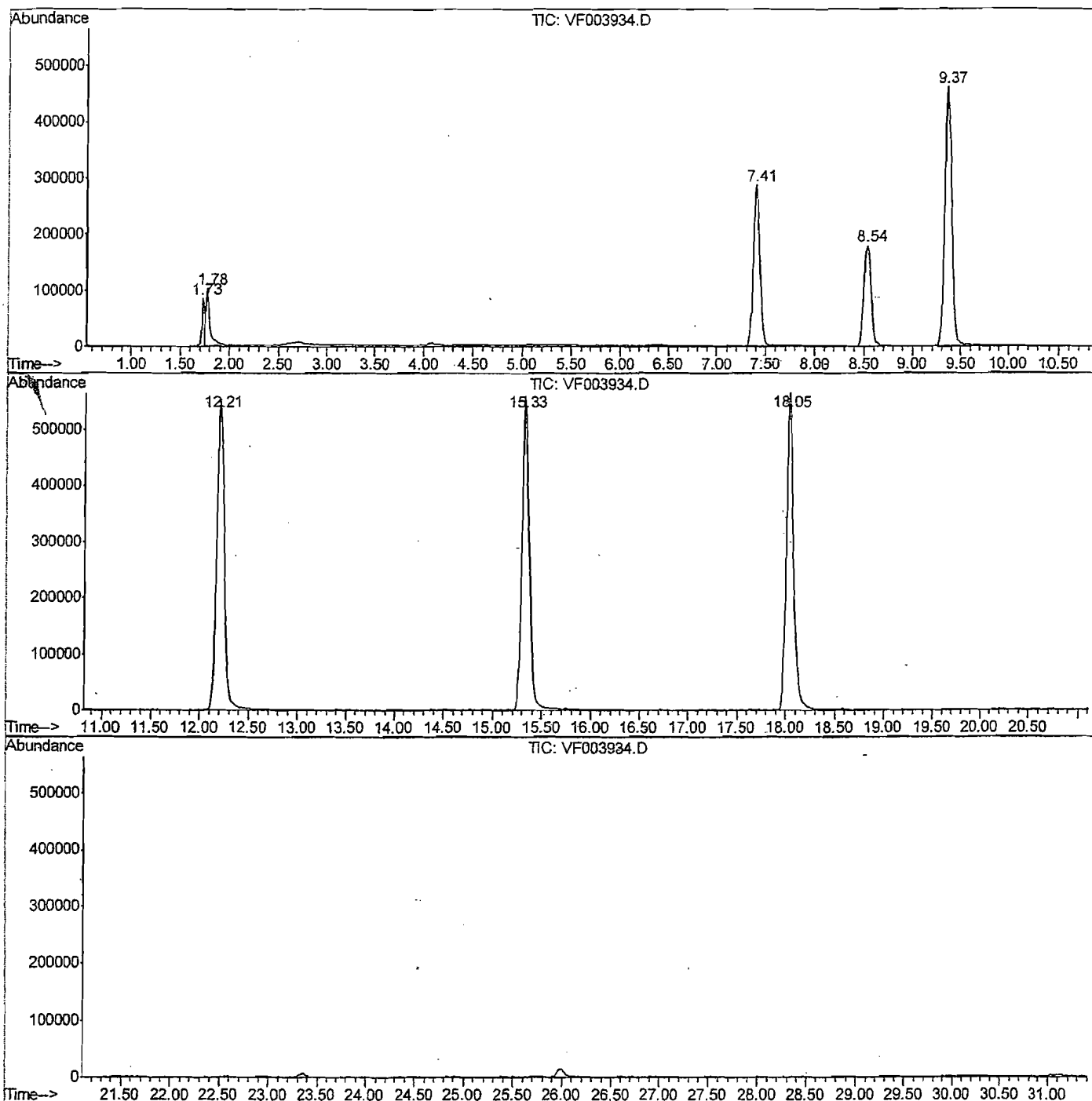
Sum of corrected areas: 13778442

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003934.D
Acq On : 9 Sep 2006 23:38
Operator : SD
Sample : X4423-13
Misc : 5mL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003934.D
 Acq On : 9 Sep 2006 23:38
 Operator : SD
 Sample : X4423-13
 Misc : 5mL
 ALS Vial : 13 Sample Multiplier: 1

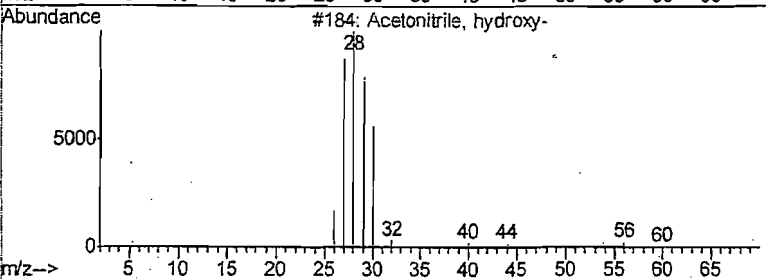
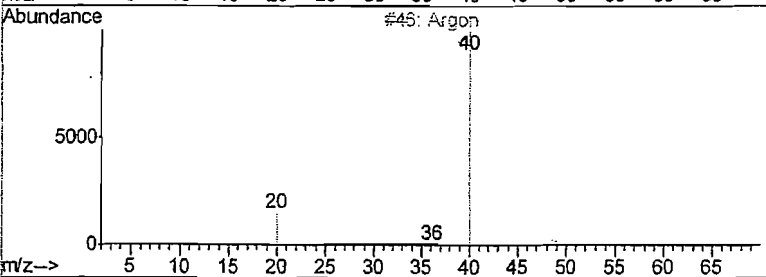
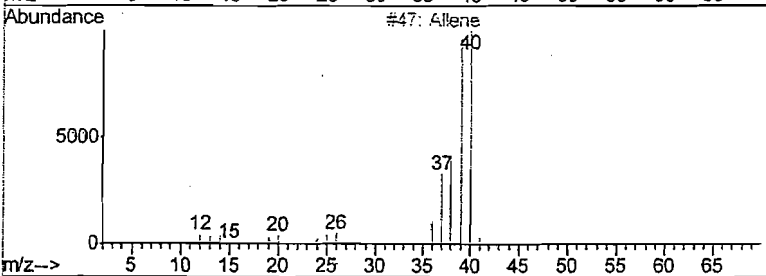
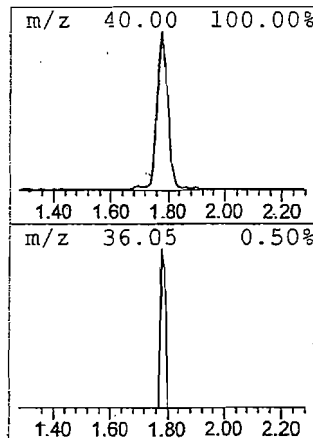
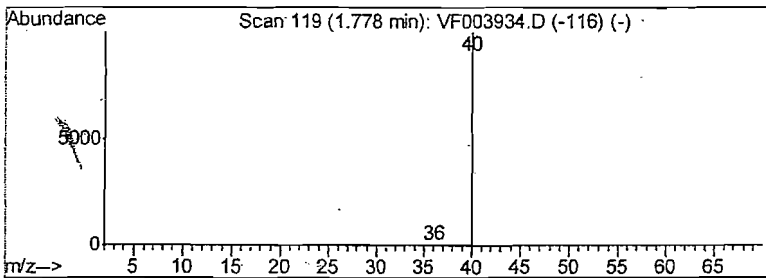
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: RTEINT.P

 Peak Number 2 Argon Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.78	12.11 ug/l	322842	Bromochloromethane	7.41

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	3	Allene	40	C3H4	000463-49-0	2
2		Argon	40	Ar	007440-37-1	2
3		Acetonitrile, hydroxy-	57	C2H3NO	000107-16-4	1



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003934.D
Acq On : 9 Sep 2006 23:38
Operator : SD
Sample : X4423-13
Misc : 5mL
ALS Vial : 13 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	---Internal Standard---		
						RT	Resp	Concl
Argon	1.78	12.1	ug/l	322842	1	7.4I	1333070	50.0

CHEMTECH

VOLATILES
CALIBRATION
DATA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Instrument ID: MSVOAF Calibration Date(s): 9/9/2006 9/9/2006
 Heated Purge: (Y/N) N Calibration Time(s): 17:48 20:23
 GC Column: RTX624 ID: 0.53 (mm)

LAB FILE ID:							
	RRF010 = VF003925.D	RRF020 = VF003926.D	RRF050 = VF003927.D	RRF100 = VF003928.D	RRF200 = VF003929.D		
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF200	RRF	% RSD
Chloromethane *	0.935	1.035	1.015	0.939	1.023	0.989	4.9
Vinyl Chloride *	1.213	1.300	1.294	1.161	1.302	1.254	5.1
Bromomethane	1.079	1.084	1.095	1.005	0.975	1.048	5.1
Chloroethane	0.803	0.840	0.792	0.606	0.423	0.693	25.4
1,1-Dichloroethene *	1.015	1.232	1.182	1.076	1.023	1.106	8.8
Acetone	0.299	0.298	0.293	0.276	0.248	0.283	7.6
Carbon Disulfide	3.004	3.593	3.630	3.411	3.514	3.430	7.4
Methylene Chloride	1.231	1.408	1.384	1.355	1.369	1.349	5.1
trans-1,2-Dichloroethene	1.240	1.477	1.449	1.359	1.441	1.393	6.9
1,1-Dichloroethane *	2.563	2.982	3.039	2.903	2.988	2.895	6.6
2-Butanone	0.196	0.200	0.217	0.214	0.193	0.204	5.3
Carbon Tetrachloride *	0.373	0.442	0.456	0.463	0.489	0.445	9.8
cis-1,2-Dichloroethene	1.358	1.578	1.621	1.575	1.625	1.551	7.1
Chloroform *	2.526	2.930	3.006	2.850	2.996	2.862	6.9
1,1,1-Trichloroethane *	0.390	0.444	0.464	0.462	0.476	0.447	7.6
Benzene *	0.913	1.030	1.092	1.089	1.111	1.047	7.7
1,2-Dichloroethane *	0.300	0.321	0.353	0.349	0.331	0.331	6.5
Trichloroethene *	0.324	0.369	0.396	0.401	0.426	0.383	10.1
1,2-Dichloropropane *	0.373	0.414	0.452	0.444	0.434	0.423	7.5
Bromodichloromethane *	0.416	0.491	0.539	0.559	0.560	0.513	11.9
4-Methyl-2-Pentanone	0.367	0.400	0.410	0.398	0.364	0.388	5.4
Toluene *	1.063	1.234	1.312	1.307	1.360	1.255	9.3
t-1,3-Dichloropropene *	0.446	0.500	0.552	0.564	0.552	0.523	9.5
cis-1,3-Dichloropropene *	0.518	0.585	0.635	0.653	0.639	0.606	9.2
1,1,2-Trichloroethane *	0.304	0.347	0.377	0.391	0.389	0.362	10.1
2-Hexanone	0.251	0.276	0.291	0.267	0.234	0.264	8.4
Dibromochloromethane *	0.393	0.467	0.536	0.567	0.556	0.504	14.5
Tetrachloroethene *	0.314	0.379	0.390	0.388	0.432	0.381	11.2
Chlorobenzene *	0.791	0.893	0.950	0.925	0.982	0.908	8.1
Ethyl Benzene *	1.321	1.658	1.726	1.707	1.770	1.636	11.1
m/p-Xylenes *	0.995	1.202	1.307	1.263	1.358	1.225	11.5
o-Xylene *	1.022	1.220	1.279	1.267	1.311	1.220	9.5
Styrene *	0.780	0.929	1.019	1.020	1.037	0.957	11.2
Bromoform *	0.315	0.370	0.441	0.458	0.459	0.409	15.6
1,1,2,2-Tetrachloroethane *	0.588	0.670	0.741	0.724	0.710	0.687	8.9
1,2-Dichloroethane-d4	1.509	1.467	1.532	1.487	1.420	1.483	2.9
Toluene-d8	1.023	1.061	1.134	1.157	1.196	1.114	6.4

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Instrument ID: MSVOAF Calibration Date(s): 9/9/2006 9/9/2006
 Heated Purge: (Y/N) N Calibration Time(s): 17:48 20:23
 GC Column: RTX624 ID: 0.53 (mm)

LAB FILE ID:		RRF010 = VF003925.D	RRF020 = VF003926.D				
RRF050 = VF003927.D		RRF100 = VF003928.D	RRF200 = VF003929.D				
COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF200	RRF	% RSD
4-Bromofluorobenzene *	0.619	0.628	0.701	0.709	0.720	0.675	7.1 *

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003925.D
 Acq On : 9 Sep 2006 17:48
 Operator : SD
 Sample : 10 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 10:48:51 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.40	128	309819	50.00	ug/l	-0.01
21) 1,4-Difluorobenzene	9.36	114	1580226	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.32	117	1540609	50.00	ug/l	-0.02

System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.53	65	93529	9.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	19.70%	
40) 4-Bromofluorobenzene	18.03	95	190611	8.82	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	17.64%	
43) Toluene-d8	12.19	98	315107	9.02	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	18.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.92	85	89049	9.43	ug/l	97
3) Chloromethane	2.20	50	57924	9.21	ug/l	98
4) Vinyl Chloride	2.26	62	75180	9.38	ug/l	98
5) Bromomethane	2.65	94	66846	9.85	ug/l	89
6) Chloroethane	2.78	64	49762	10.13	ug/l	91
7) Trichlorofluoromethane	3.06	101	123405	9.37	ug/l	92
8) 1,1,2-Trichlorotrifluoroet	3.79	101	120039	8.87	ug/l	99
9) 1,1-Dichloroethene	3.82	96	62880	8.58	ug/l	97
10) Acetone	4.08	43	92649	50.96	ug/l	99
11) Carbon Disulfide	4.10	76	186153	8.28	ug/l	100
12) Methyl Acetate	4.57	43	80596	9.61	ug/l	99
13) Methylene Chloride	4.71	84	76265	8.90	ug/l	99
14) trans-1,2-Dichloroethene	5.08	96	76850	8.56	ug/l	98
15) 1,1-Dichloroethane	5.88	63	158827	8.44	ug/l	100
16) cis-1,2-Dichloroethene	6.96	96	84120	8.37	ug/l	99
17) Methyl tert-butyl Ether	5.11	73	235550	8.97	ug/l	98
18) Chloroform	7.58	83	156493	8.40	ug/l	98
19) Cyclohexane	7.69	56	146043	8.36	ug/L	99
22) 2-Butanone	7.12	43	309787	45.22	ug/l	99
23) 1,1,1-Trichloroethane	7.75	97	123140	8.39	ug/l	99
24) Carbon Tetrachloride	7.97	117	117816	8.18	ug/l	100
25) Benzene	8.45	78	288469	8.36	ug/l	100
26) 1,2-Dichloroethane	8.67	62	94802	8.49	ug/l	98
27) Trichloroethene	9.74	130	102439	8.18	ug/l	100
28) Methylcyclohexane	9.92	83	144934	7.92	ug/l	98
29) 1,2-Dichloropropane	10.28	63	117804	8.26	ug/l	100
30) Bromodichloromethane	10.85	83	131417	7.72	ug/l	98
31) t-1,3-Dichloropropene	13.04	75	141050	8.09	ug/l	98
32) cis-1,3-Dichloropropene	11.79	75	163775	8.17	ug/l	99
33) 1,1,2-Trichloroethane	13.40	97	96035	8.05	ug/l	99
34) Dibromochloromethane	14.12	129	124287	7.33	ug/l	98
35) 1,2-Dibromoethane	14.34	107	127392	8.12	ug/l	100
36) Bromoform	17.26	173	99450	7.14	ug/l	99
38) 4-Methyl-2-Pentanone	12.16	43	566045	44.79	ug/l	98
39) 2-Hexanone	13.95	43	387254	43.26	ug/l	99
41) Tetrachloroethene	13.40	164	96726	8.06	ug/l	99
42) Toluene	12.33	91	327518	8.10	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003925.D
 Acq On : 9 Sep 2006 17:48
 Operator : SD
 Sample : 10 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 10:48:51 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

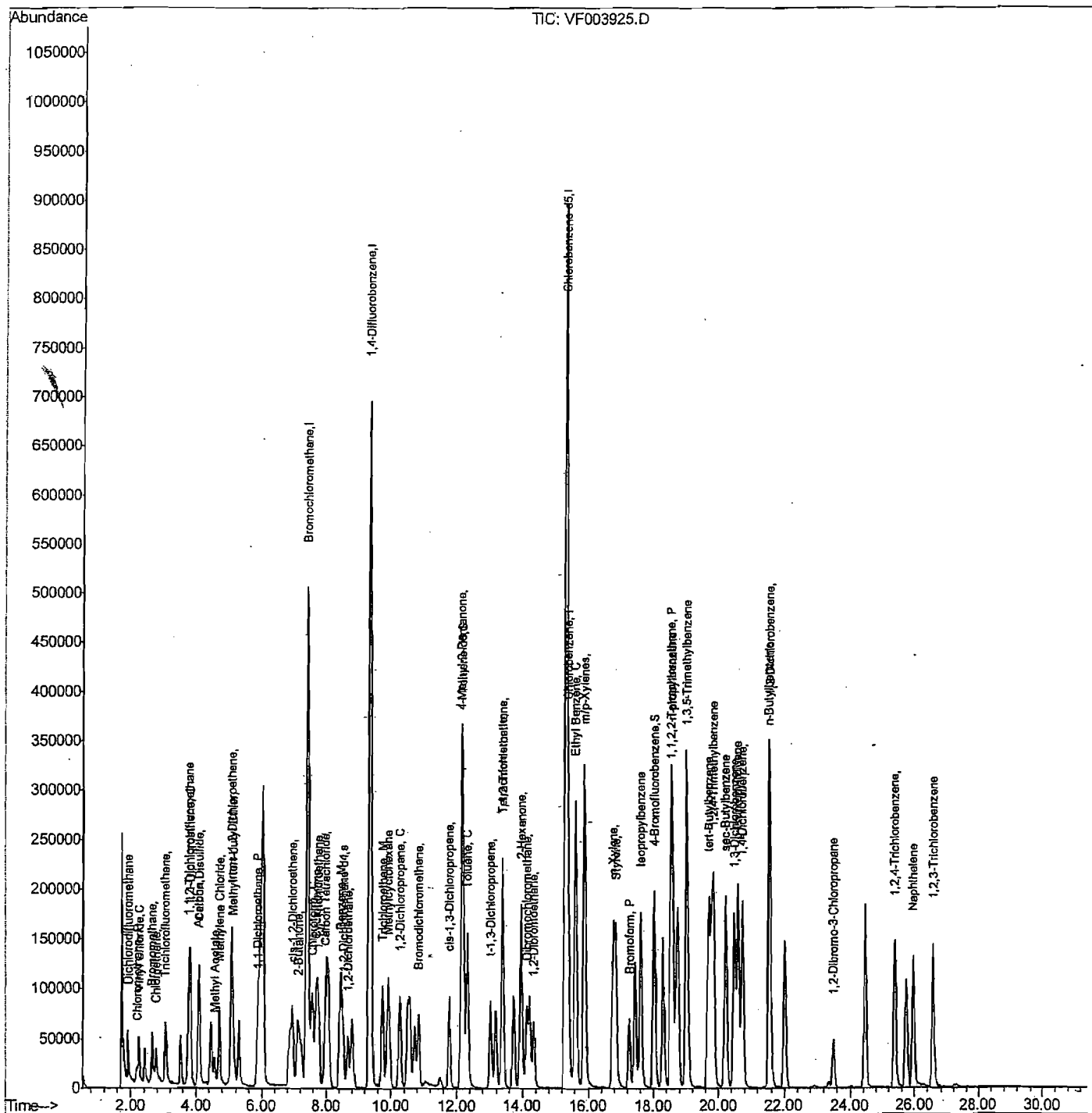
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.38	112	243695	8.33	ug/l	97
45) Ethyl Benzene	15.61	91	407028	7.65	ug/l	97
46) m/p-Xylenes	15.89	91	613438	15.24	ug/l	100
47) o-Xylene	16.76	91	314763	7.98	ug/l	98
48) Styrene	16.85	104	240422	7.66	ug/l	99
49) Isopropylbenzene	17.61	105	388417	7.64	ug/l	98
50) 1,1,2,2-Tetrachloroethane	18.54	83	181124	7.93	ug/l	99
51) n-propylbenzene	18.56	91	533990	7.56	ug/l	100
52) 1,3,5-Trimethylbenzene	19.01	105	325503	7.50	ug/l	100
53) tert-Butylbenzene	19.71	119	448081	7.41	ug/l	98
54) 1,2,4-Trimethylbenzene	19.85	105	328575	7.57	ug/l	98
55) sec-Butylbenzene	20.22	105	476156	7.44	ug/l	99
56) p-Isopropyltoluene	20.59	119	408174	7.36	ug/l	98
57) 1,3-Dichlorobenzene	20.48	146	244043	7.71	ug/l	98
58) 1,4-Dichlorobenzene	20.72	146	255575	7.69	ug/l	97
59) n-Butylbenzene	21.54	91	388922	6.94	ug/l	99
60) 1,2-Dichlorobenzene	21.58	146	238229	7.55	ug/l	99
61) 1,2-Dibromo-3-Chloropropan	23.49	75	36308	8.00	ug/l	96
62) Naphthalene	25.96	128	322684	7.13	ug/l	100
63) 1,2,3-Trichlorobenzene	26.56	180	151989	6.88	ug/l	98
64) 1,2,4-Trichlorobenzene	25.38	180	159452	6.80	ug/l	98

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

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003925.D
 Acq On : 9 Sep 2006 17:48
 Operator : SD
 Sample : 10 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 10:48:51 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003926.D
 Acq On : 9 Sep 2006 18:27
 Operator : SD
 Sample : 20 PPB ICC
 Misc : 5mL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 10:50:34 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.41	128	330985	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.37	114	1747259	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1676365	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
20) 1,2-Dichloroethane-d4	8.54	65	194214	19.15	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	38.30%	
40) 4-Bromofluorobenzene	18.04	95	421226	17.92	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	35.84%	
43) Toluene-d8	12.21	98	711227	18.70	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	37.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	205708	20.39	ug/l	97
3) Chloromethane	2.18	50	137042	20.39	ug/l	97
4) Vinyl Chloride	2.26	62	172158	20.10	ug/l	100
5) Bromomethane	2.66	94	143448	19.79	ug/l	100
6) Chloroethane	2.77	64	111151	21.19	ug/l	100
7) Trichlorofluoromethane	3.05	101	263735	18.75	ug/l	88
8) 1,1,2-Trichlorotrifluoroet	3.78	101	304538	21.07	ug/l	99
9) 1,1-Dichloroethene	3.81	96	163158	20.85	ug/l	100
10) Acetone	4.09	43	197558	101.71	ug/l	97
11) Carbon Disulfide	4.10	76	475654	19.79	ug/l	100
12) Methyl Acetate	4.58	43	177371	19.80	ug/l	98
13) Methylene Chloride	4.72	84	186435	20.35	ug/l	98
14) trans-1,2-Dichloroethene	5.07	96	195601	20.39	ug/l	98
15) 1,1-Dichloroethane	5.89	63	394819	19.63	ug/l	100
16) cis-1,2-Dichloroethene	6.96	96	208909	19.47	ug/l	98
17) Methyl tert-butyl Ether	5.10	73	542715	19.35	ug/l	98
18) Chloroform	7.57	83	387955	19.49	ug/l	99
19) Cyclohexane	7.71	56	385800	20.68	ug/L	98
22) 2-Butanone	7.13	43	697841	92.12	ug/l	99
23) 1,1,1-Trichloroethane	7.77	97	310230	19.13	ug/l	100
24) Carbon Tetrachloride	7.99	117	308590	19.39	ug/l	99
25) Benzene	8.46	78	719619	18.86	ug/l	100
26) 1,2-Dichloroethane	8.69	62	224481	18.18	ug/l	100
27) Trichloroethene	9.75	130	257605	18.61	ug/l	99
28) Methylcyclohexane	9.95	83	380157	18.80	ug/l	99
29) 1,2-Dichloropropane	10.29	63	289332	18.34	ug/l	100
30) Bromodichloromethane	10.87	83	343180	18.23	ug/l	99
31) t-1,3-Dichloropropene	13.05	75	349338	18.11	ug/l	99
32) cis-1,3-Dichloropropene	11.81	75	408813	18.43	ug/l	99
33) 1,1,2-Trichloroethane	13.41	97	242381	18.38	ug/l	98
34) Dibromochloromethane	14.13	129	326605	17.43	ug/l	100
35) 1,2-Dibromoethane	14.36	107	307930	17.75	ug/l	99
36) Bromoform	17.27	173	258586	16.80	ug/l	99
38) 4-Methyl-2-Pentanone	12.17	43	1339664	97.43	ug/l	97
39) 2-Hexanone	13.96	43	925521	95.03	ug/l	99
41) Tetrachloroethene	13.42	164	254233	19.46	ug/l	98
42) Toluene	12.34	91	827504	18.81	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003926.D
 Acq On : 9 Sep 2006 18:27
 Operator : SD
 Sample : 20 PPB ICC
 Misc : 5mL
 ALS Vial : 4 Sample Multiplier: 1

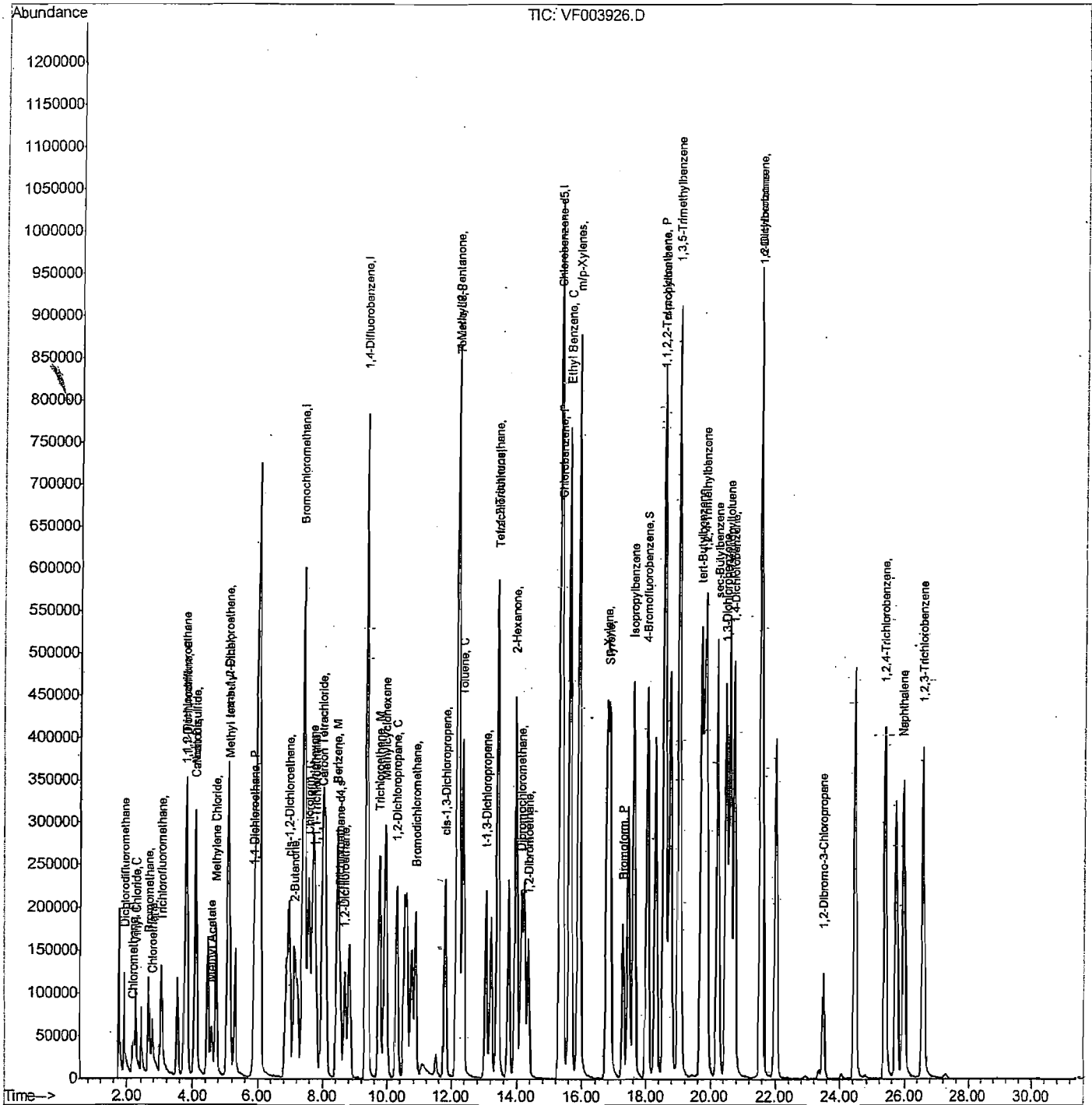
Quant Time: Sep 11 10:50:34 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.39	112	599011	18.81	ug/l	100
45) Ethyl Benzene	15.62	91	1111550	19.21	ug/l	99
46) m/p-Xylenes	15.90	91	1611312	36.78	ug/l	100
47) o-Xylene	16.78	91	817987	19.07	ug/l	99
48) Styrene	16.86	104	622979	18.23	ug/l	99
49) Isopropylbenzene	17.62	105	1037825	18.76	ug/l	100
50) 1,1,2,2-Tetrachloroethane	18.54	83	449145	18.08	ug/l	98
51) n-propylbenzene	18.57	91	1447984	18.83	ug/l	100
52) 1,3,5-Trimethylbenzene	19.02	105	876997	18.57	ug/l	100
53) tert-Butylbenzene	19.72	119	1196175	18.18	ug/l	98
54) 1,2,4-Trimethylbenzene	19.87	105	877660	18.58	ug/l	99
55) sec-Butylbenzene	20.24	105	1271893	18.26	ug/l	100
56) p-Isopropyltoluene	20.61	119	1086920	18.02	ug/l	98
57) 1,3-Dichlorobenzene	20.49	146	624375	18.12	ug/l	99
58) 1,4-Dichlorobenzene	20.74	146	659830	18.24	ug/l	100
59) n-Butylbenzene	21.56	91	1086270	17.80	ug/l	100
60) 1,2-Dichlorobenzene	21.58	146	617671	17.99	ug/l	99
61) 1,2-Dibromo-3-Chloropropan	23.49	75	87865	17.79	ug/l	97
62) Naphthalene	25.96	128	860831	17.49	ug/l	100
63) 1,2,3-Trichlorobenzene	26.57	180	406523	16.91	ug/l	97
64) 1,2,4-Trichlorobenzene	25.40	180	427613	16.77	ug/l	98

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

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003926.D
 Acq On : 9 Sep 2006 18:27
 Operator : SD
 Sample : 20 PPB ICC
 Misc : 5mL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 10:50:34 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003927.D
 Acq On : 9 Sep 2006 19:06
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 10:47:07 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.41	128	318510	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.36	114	1604947	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.34	117	1569330	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
20) 1,2-Dichloroethane-d4	8.53	65	488043	50.00	ug/l	0.00
Spiked Amount				50.000		
				Recovery =	100.00%	
40) 4-Bromofluorobenzene	18.04	95	1100210	50.00	ug/l	0.00
Spiked Amount				50.000		
				Recovery =	100.00%	
43) Toluene-d8	12.20	98	1780224	50.00	ug/l	0.00
Spiked Amount				50.000		
				Recovery =	100.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	485400	50.00	ug/l	100
3) Chloromethane	2.19	50	323345	50.00	ug/l	100
4) Vinyl Chloride	2.25	62	412170	50.00	ug/l	100
5) Bromomethane	2.65	94	348746	50.00	ug/l	100
6) Chloroethane	2.77	64	252403	50.00	ug/l	100
7) Trichlorofluoromethane	3.02	101	676837	50.00	ug/l	100
8) 1,1,2-Trichlorotrifluoroet	3.76	101	695408	50.00	ug/l	100
9) 1,1-Dichloroethene	3.80	96	376525	50.00	ug/l	100
10) Acetone	4.12	43	467298	250.00	ug/l	100
11) Carbon Disulfide	4.08	76	1156267	50.00	ug/l	100
12) Methyl Acetate	4.59	43	431098	50.00	ug/l	100
13) Methylene Chloride	4.71	84	440703	50.00	ug/l	100
14) trans-1,2-Dichloroethene	5.08	96	461561	50.00	ug/l	100
15) 1,1-Dichloroethane	5.89	63	967857	50.00	ug/l	100
16) cis-1,2-Dichloroethene	6.96	96	516382	50.00	ug/l	100
17) Methyl tert-butyl Ether	5.11	73	1349835	50.00	ug/l	100
18) Chloroform	7.58	83	957554	50.00	ug/l	100
19) Cyclohexane	7.69	56	897498	50.00	ug/L	100
22) 2-Butanone	7.14	43	1739534	250.00	ug/l	100
23) 1,1,1-Trichloroethane	7.78	97	744889	50.00	ug/l	100
24) Carbon Tetrachloride	7.99	117	730981	50.00	ug/l	100
25) Benzene	8.46	78	1752575	50.00	ug/l	100
26) 1,2-Dichloroethane	8.69	62	567106	50.00	ug/l	100
27) Trichloroethene	9.76	130	635823	50.00	ug/l	100
28) Methylcyclohexane	9.94	83	928807	50.00	ug/l	100
29) 1,2-Dichloropropane	10.29	63	724661	50.00	ug/l	100
30) Bromodichloromethane	10.87	83	864375	50.00	ug/l	100
31) t-1,3-Dichloropropene	13.06	75	885830	50.00	ug/l	100
32) cis-1,3-Dichloropropene	11.81	75	1018522	50.00	ug/l	100
33) 1,1,2-Trichloroethane	13.41	97	605542	50.00	ug/l	100
34) Dibromochloromethane	14.15	129	860693	50.00	ug/l	100
35) 1,2-Dibromoethane	14.36	107	796605	50.00	ug/l	100
36) Bromoform	17.27	173	706962	50.00	ug/l	100
38) 4-Methyl-2-Pentanone	12.18	43	3218172	250.00	ug/l	100
39) 2-Hexanone	13.97	43	2279422	250.00	ug/l	100
41) Tetrachloroethene	13.41	164	611509	50.00	ug/l	100
42) Toluene	12.34	91	2058927	50.00	ug/l	100

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003927.D
 Acq On : 9 Sep 2006 19:06
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 5 Sample Multiplier: 1

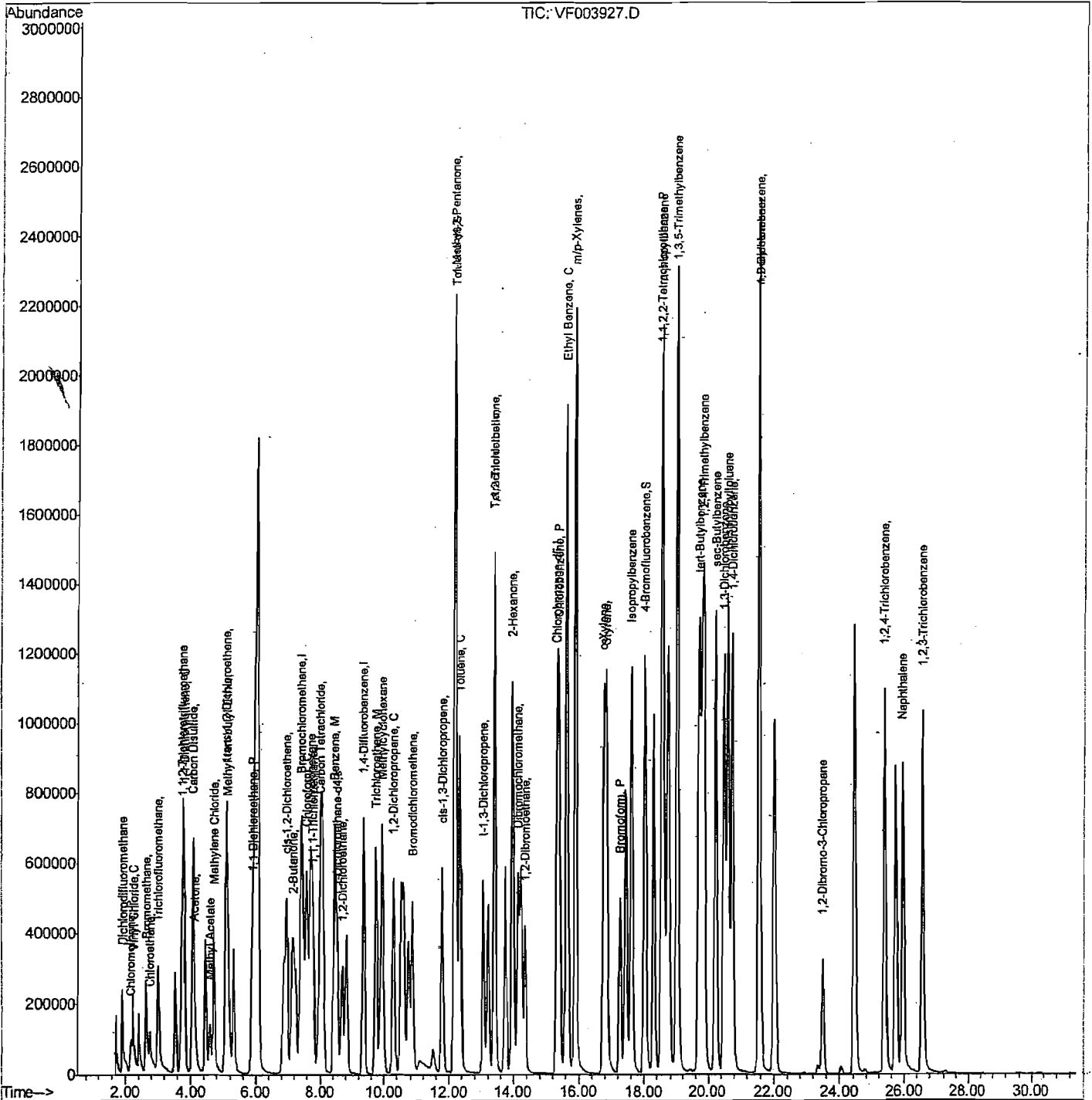
Quant Time: Sep 11 10:47:07 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.39	112	1490277	50.00	ug/l	100
45) Ethyl Benzene	15.62	91	2708734	50.00	ug/l	100
46) m/p-Xylenes	15.90	91	4100986	100.00	ug/l	100
47) o-Xylene	16.78	91	2007785	50.00	ug/l	100
48) Styrene	16.86	104	1599303	50.00	ug/l	100
49) Isopropylbenzene	17.62	105	2589866	50.00	ug/l	100
50) 1,1,2,2-Tetrachloroethane	18.56	83	1162633	50.00	ug/l	100
51) n-propylbenzene	18.58	91	3599118	50.00	ug/l	100
52) 1,3,5-Trimethylbenzene	19.03	105	2210638	50.00	ug/l	100
53) tert-Butylbenzene	19.72	119	3080479	50.00	ug/l	100
54) 1,2,4-Trimethylbenzene	19.87	105	2210649	50.00	ug/l	100
55) sec-Butylbenzene	20.24	105	3257129	49.96	ug/l	100
56) p-Isopropyltoluene	20.61	119	2823242	50.00	ug/l	100
57) 1,3-Dichlorobenzene	20.50	146	1613131	50.00	ug/l	100
58) 1,4-Dichlorobenzene	20.74	146	1693661	50.00	ug/l	100
59) n-Butylbenzene	21.56	91	2855870	50.00	ug/l	100
60) 1,2-Dichlorobenzene	21.58	146	1606635	50.00	ug/l	100
61) 1,2-Dibromo-3-Chloropropan	23.50	75	231170	50.00	ug/l	100
62) Naphthalene	25.96	128	2304152	50.00	ug/l	100
63) 1,2,3-Trichlorobenzene	26.58	180	1125317	50.00	ug/l	100
64) 1,2,4-Trichlorobenzene	25.40	180	1193854	50.00	ug/l	100

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

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003927.D
 Acq On : 9 Sep 2006 19:06
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 11 10:47:07 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003928.D
 Acq On : 9 Sep 2006 19:44
 Operator : SD
 Sample : 100 PPB ICC
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 10:53:02 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.42	128	320710	50.00	ug/l	0.01
21) 1,4-Difluorobenzene	9.37	114	1540379	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.34	117	1540136	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
20) 1,2-Dichloroethane-d4	8.55	65	953696	97.04	ug/l	0.02
Spiked Amount 50.000			Recovery =	194.08%		
40) 4-Bromofluorobenzene	18.05	95	2184520	101.16	ug/l	0.00
Spiked Amount 50.000			Recovery =	202.32%		
43) Toluene-d8	12.21	98	3562526	101.96	ug/l	0.00
Spiked Amount 50.000			Recovery =	203.92%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	865218m	88.51	ug/l	
3) Chloromethane	2.18	50	602278	92.49	ug/l	98
4) Vinyl Chloride	2.26	62	744668	89.72	ug/l	99
5) Bromomethane	2.65	94	644441	91.76	ug/l	99
6) Chloroethane	2.78	64	388554	76.44	ug/l	95
7) Trichlorofluoromethane	3.03	101	1232090	90.39	ug/l	94
8) 1,1,2-Trichlorotrifluoroet	3.75	101	1288520	92.01	ug/l	99
9) 1,1-Dichloroethene	3.79	96	690016	91.00	ug/l	99
10) Acetone	4.17	43	886172	470.84	ug/l	99
11) Carbon Disulfide	4.07	76	2187556	93.95	ug/l	100
12) Methyl Acetate	4.61	43	821784	94.66	ug/l	100
13) Methylene Chloride	4.72	84	869213	97.94	ug/l	96
14) trans-1,2-Dichloroethene	5.07	96	871571	93.77	ug/l	99
15) 1,1-Dichloroethane	5.90	63	1861912	95.53	ug/l	100
16) cis-1,2-Dichloroethene	6.97	96	1010158	97.14	ug/l	98
17) Methyl tert-butyl Ether	5.15	73	2612501	96.11	ug/l	99
18) Chloroform	7.59	83	1827836	94.79	ug/l	99
19) Cyclohexane	7.70	56	1696313	93.85	ug/L	98
22) 2-Butanone	7.17	43	3301685	494.40	ug/l	99
23) 1,1,1-Trichloroethane	7.78	97	1422259	99.47	ug/l	100
24) Carbon Tetrachloride	7.99	117	1425968	101.63	ug/l	99
25) Benzene	8.47	78	3353591	99.69	ug/l	100
26) 1,2-Dichloroethane	8.70	62	1076561	98.90	ug/l	99
27) Trichloroethene	9.75	130	1236425	101.31	ug/l	99
28) Methylcyclohexane	9.94	83	1785628	100.15	ug/l	98
29) 1,2-Dichloropropane	10.29	63	1367744	98.33	ug/l	99
30) Bromodichloromethane	10.87	83	1722514	103.82	ug/l	99
31) t-1,3-Dichloropropene	13.05	75	1736545	102.13	ug/l	99
32) cis-1,3-Dichloropropene	11.80	75	2010818	102.85	ug/l	99
33) 1,1,2-Trichloroethane	13.41	97	1205783	103.74	ug/l	98
34) Dibromochloromethane	14.14	129	1745685	105.66	ug/l	100
35) 1,2-Dibromoethane	14.36	107	1551748	101.48	ug/l	99
36) Bromoform	17.27	173	1409799	103.89	ug/l	100
38) 4-Methyl-2-Pentanone	12.18	43	6132287	485.41	ug/l	98
39) 2-Hexanone	13.98	43	4113934	459.76	ug/l	99
41) Tetrachloroethene	13.41	164	1195149	99.57	ug/l	100
42) Toluene	12.34	91	4027048	99.65	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003928.D
 Acq On : 9 Sep 2006 19:44
 Operator : SD
 Sample : 100 PPB ICC
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 10:53:02 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

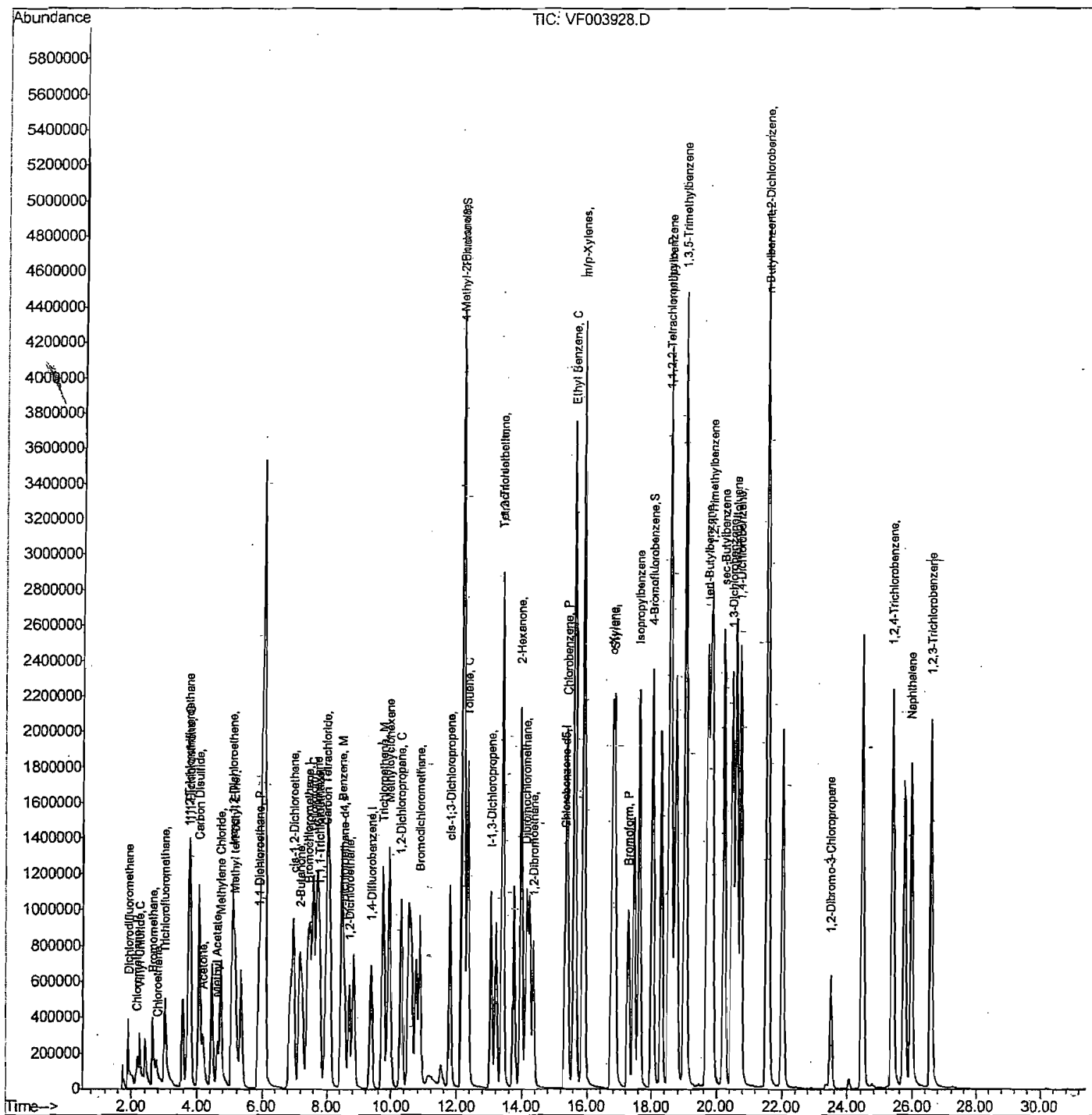
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.40	112	2848901	97.39	ug/l	99
45) Ethyl Benzene	15.62	91	5257638	98.89	ug/l	100
46) m/p-Xylenes	15.91	91	7782981	193.38	ug/l	98
47) o-Xylene	16.78	91	3903066	99.04	ug/l	99
48) Styrene	16.86	104	3142058	100.09	ug/l	99
49) Isopropylbenzene	17.63	105	4952202	97.42	ug/l	99
50) 1,1,2,2-Tetrachloroethane	18.55	83	2228778	97.67	ug/l	97
51) n-propylbenzene	18.57	91	6998219	99.06	ug/l	99
52) 1,3,5-Trimethylbenzene	19.03	105	4232614	97.55	ug/l	99
53) tert-Butylbenzene	19.72	119	5987438	99.03	ug/l	100
54) 1,2,4-Trimethylbenzene	19.87	105	4233494	97.57	ug/l	98
55) sec-Butylbenzene	20.23	105	6299864	98.46	ug/l	100
56) p-Isopropyltoluene	20.61	119	5347436	96.50	ug/l	99
57) 1,3-Dichlorobenzene	20.50	146	3169404	100.10	ug/l	99
58) 1,4-Dichlorobenzene	20.74	146	3347668	100.70	ug/l	99
59) n-Butylbenzene	21.56	91	5536616	98.77	ug/l	99
60) 1,2-Dichlorobenzene	21.58	146	3163664	100.32	ug/l	98
61) 1,2-Dibromo-3-Chloropropan	23.49	75	454705	100.21	ug/l	99
62) Naphthalene	25.97	128	4809197	106.34	ug/l	100
63) 1,2,3-Trichlorobenzene	26.57	180	2229965	100.96	ug/l	99
64) 1,2,4-Trichlorobenzene	25.39	180	2376455	101.42	ug/l	100

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

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003928.D
 Acq On : 9 Sep 2006 19:44
 Operator : SD
 Sample : 100 PPB ICC
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

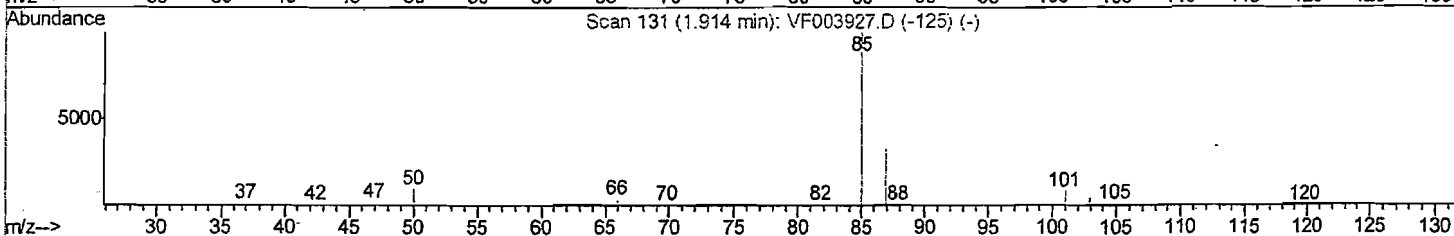
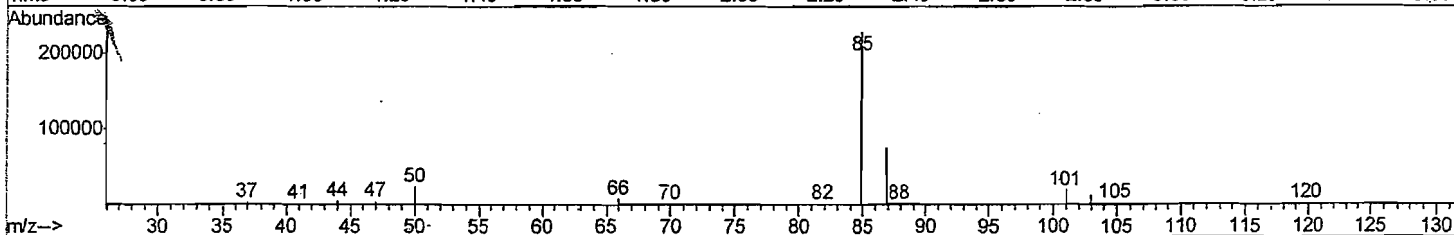
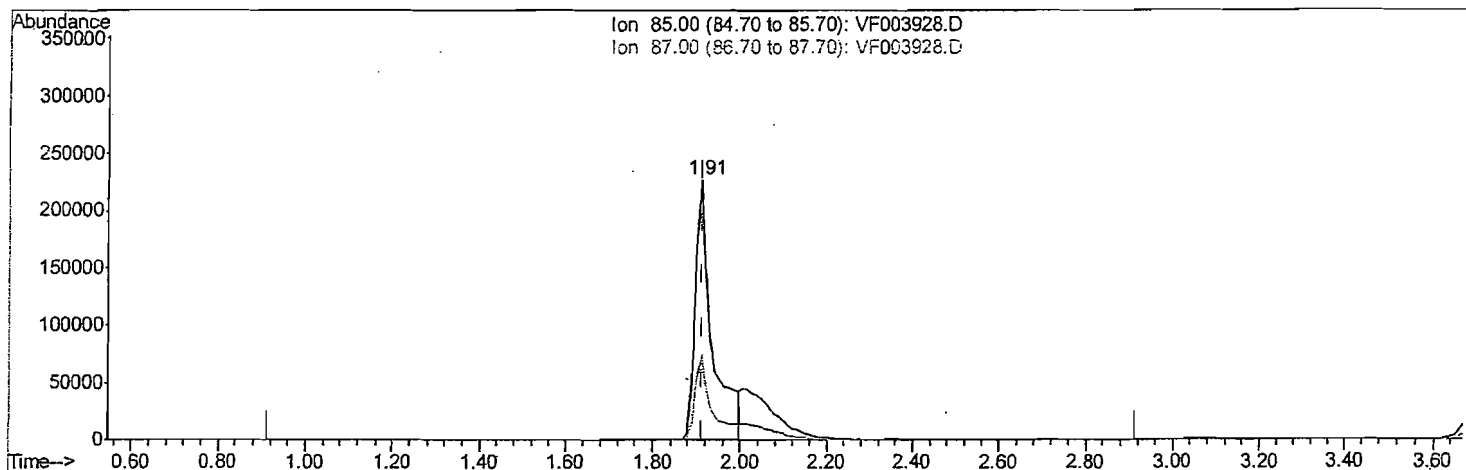
Quant Time: Sep 11 10:53:02 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\MSVOA_F\Data\VF090906\
 Data File : VF003928.D
 Acq On : 9 Sep 2006 19:44
 Operator : SD
 Sample : 100 PPB ICC
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 10:52:03 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003928.D

(2) Dichlorodifluoromethane

1.910min (-0.003) 64.33ug/l

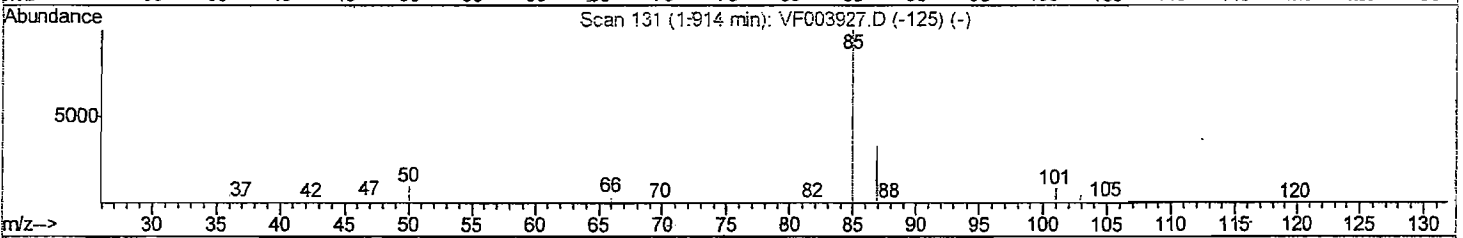
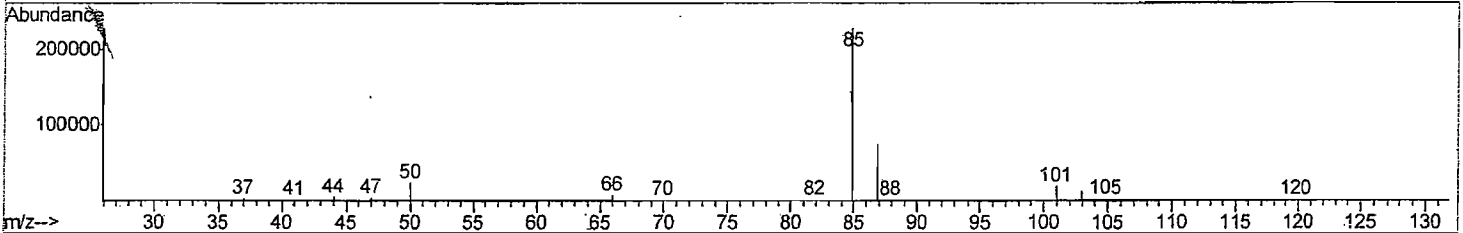
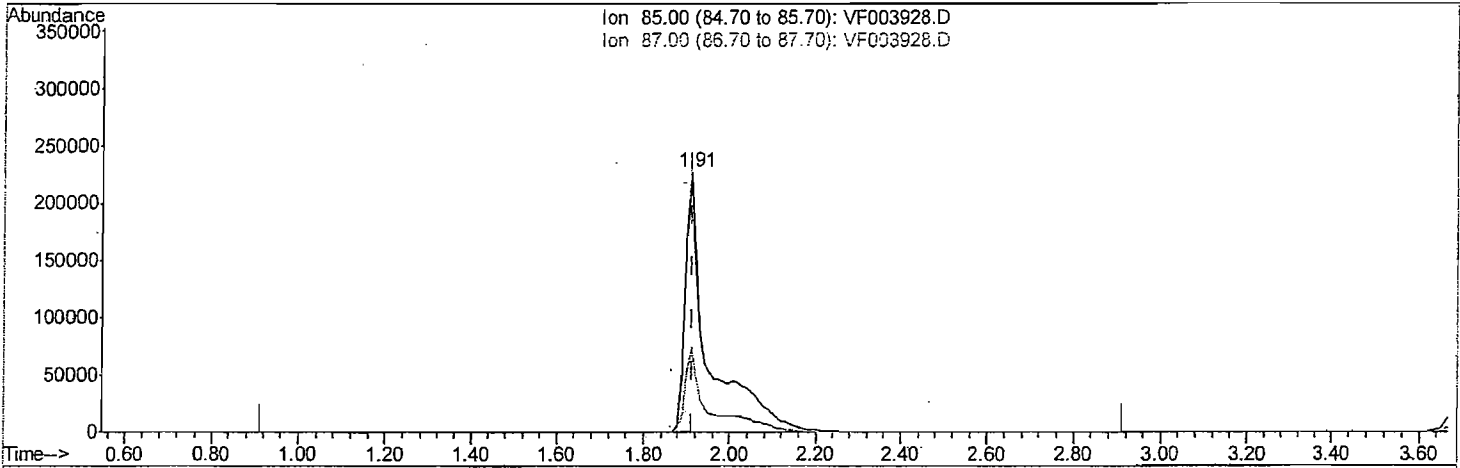
response 628857

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	44.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003928.D
 Acq On : 9 Sep 2006 19:44
 Operator : SD
 Sample : 100 PPB ICC
 Misc : 5mL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 11 10:52:03 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003928.D

(2) Dichlorodifluoromethane
 1.910min (-0.003) 88.51ug/l m
 response 865218

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	32.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:55:23 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.42	128	349932	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.37	114	1733801	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.34	117	1701235	50.00	ug/l	0.00

System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.55	65	1987997	185.38	ug/l	0.02
Spiked Amount	50.000		Recovery	=	370.76%	
40) 4-Bromofluorobenzene	18.06	95	4901423	205.48	ug/l	0.01
Spiked Amount	50.000		Recovery	=	410.96%	
43) Toluene-d8	12.21	98	8136904	210.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	421.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	2210318m	207.24	ug/l	
3) Chloromethane	2.18	50	1432463	201.62	ug/l	99
4) Vinyl Chloride	2.25	62	1823057m	201.30	ug/l	
5) Bromomethane	2.64	94	1364825m	178.11	ug/l	
6) Chloroethane	2.78	64	591696m	106.69	ug/l	
7) Trichlorofluoromethane	3.03	101	3153311	212.03	ug/l	94
8) 1,1,2-Trichlorotrifluoroet	3.70	101	2633298	172.33	ug/l	99
9) 1,1-Dichloroethene	3.75	96	1431491	173.02	ug/l	96
10) Acetone	4.24	43	1732048	843.42	ug/l	100
11) Carbon Disulfide	4.01	76	4918732	193.60	ug/l	99
12) Methyl Acetate	4.66	43	1705902	180.09	ug/l	98
13) Methylene Chloride	4.71	84	1916820	197.95	ug/l	93
14) trans-1,2-Dichloroethene	5.06	96	2017552	198.93	ug/l	97
15) 1,1-Dichloroethane	5.89	63	4182191	196.65	ug/l	99
16) cis-1,2-Dichloroethene	6.97	96	2274497	200.46	ug/l	96
17) Methyl tert-butyl Ether	5.20	73	5686763	191.73	ug/l	94
18) Chloroform	7.60	83	4193165	199.29	ug/l	100
19) Cyclohexane	7.68	56	3992042	202.43	ug/L	94
22) 2-Butanone	7.25	43	6691129	890.16	ug/l	98
23) 1,1,1-Trichloroethane	7.76	97	3299415	205.01	ug/l	99
24) Carbon Tetrachloride	7.98	117	3393722	214.88	ug/l	99
25) Benzene	8.46	78	7703441	203.44	ug/l	100
26) 1,2-Dichloroethane	8.70	62	2294755	187.29	ug/l	98
27) Trichloroethene	9.76	130	2957097	215.26	ug/l	99
28) Methylcyclohexane	9.93	83	4411671	219.84	ug/l	96
29) 1,2-Dichloropropane	10.30	63	3011855	192.37	ug/l	99
30) Bromodichloromethane	10.88	83	3884771	208.02	ug/l	99
31) t-1,3-Dichloropropene	13.06	75	3828400	200.03	ug/l	99
32) cis-1,3-Dichloropropene	11.82	75	4431255	201.37	ug/l	100
33) 1,1,2-Trichloroethane	13.43	97	2694650	205.96	ug/l	99
34) Dibromochloromethane	14.15	129	3852214	207.15	ug/l	100
35) 1,2-Dibromoethane	14.37	107	3488125	202.67	ug/l	99
36) Bromoform	17.28	173	3183867	208.44	ug/l	100
38) 4-Methyl-2-Pentanone	12.23	43	12371103	886.52	ug/l	91
39) 2-Hexanone	14.02	43	7950673	804.39	ug/l	96
41) Tetrachloroethene	13.42	164	2940340	221.78	ug/l	99
42) Toluene	12.35	91	9251035	207.24	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:55:23 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration

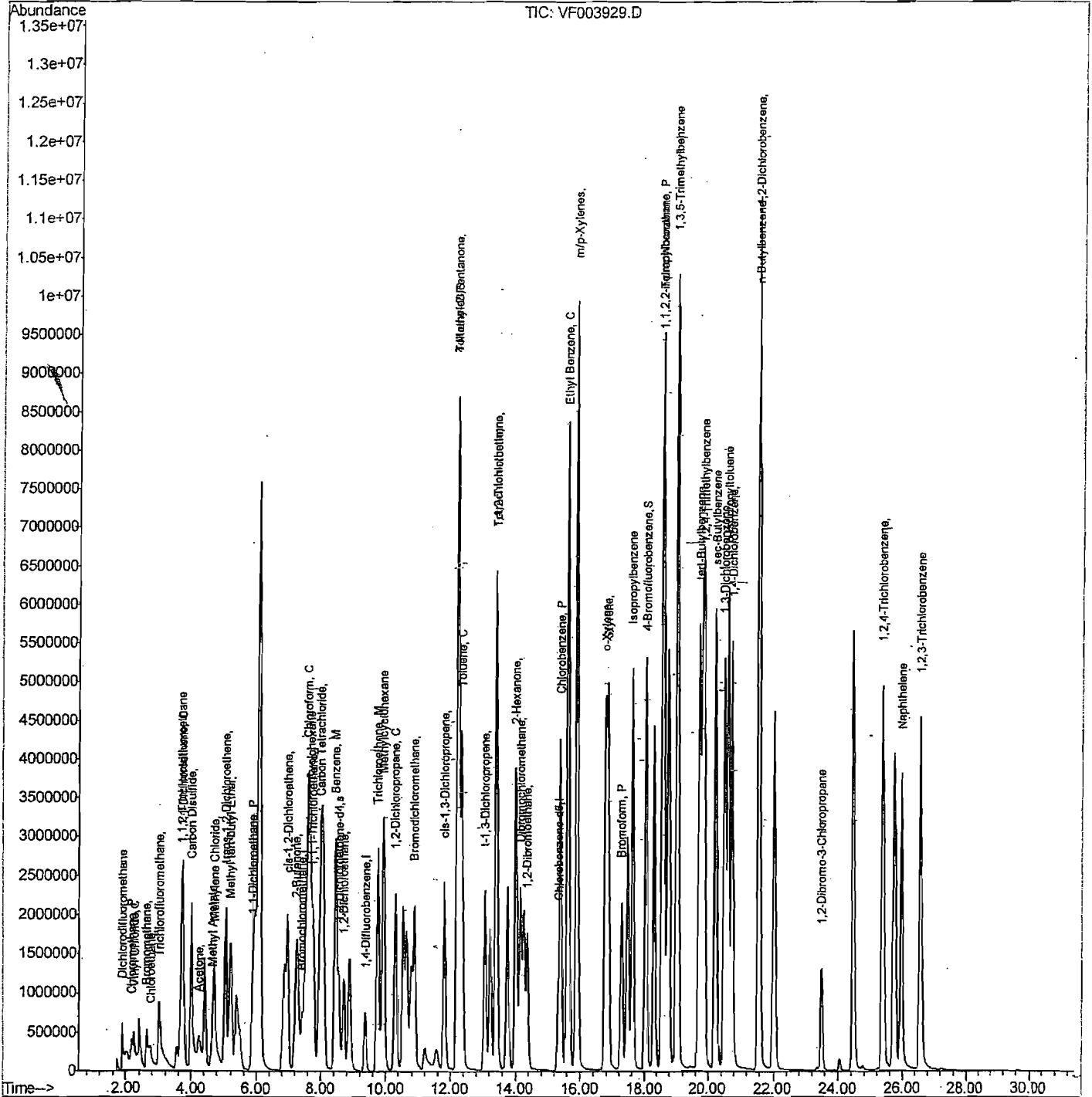
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.40	112	6680915	206.77	ug/l	99
45) Ethyl Benzene	15.63	91	12047080	205.13	ug/l	100
46) m/p-Xylenes	15.91	91	18474971	415.57	ug/l	98
47) o-Xylene	16.79	91	8918792	204.88	ug/l	100
48) Styrene	16.86	104	7058608	203.57	ug/l	98
49) Isopropylbenzene	17.62	105	11820197	210.51	ug/l	99
50) 1,1,2,2-Tetrachloroethane	18.57	83	4832326	191.71	ug/l	98
51) n-propylbenzene	18.58	91	16202447	207.64	ug/l	100
52) 1,3,5-Trimethylbenzene	19.04	105	9738839	203.19	ug/l	99
53) tert-Butylbenzene	19.72	119	13671322	204.70	ug/l	99
54) 1,2,4-Trimethylbenzene	19.88	105	9494844	198.10	ug/l	98
55) sec-Butylbenzene	20.24	105	14496459	205.10	ug/l	99
56) p-Isopropyltoluene	20.62	119	12390596	202.42	ug/l	99
57) 1,3-Dichlorobenzene	20.51	146	7022899	200.80	ug/l	99
58) 1,4-Dichlorobenzene	20.75	146	7314811	199.20	ug/l	99
59) n-Butylbenzene	21.57	91	12892029	208.21	ug/l	98
60) 1,2-Dichlorobenzene	21.59	146	7056578	202.57	ug/l	99
61) 1,2-Dibromo-3-Chloropropan	23.50	75	939839	187.52	ug/l	96
62) Naphthalene	25.97	128	10009591	200.37	ug/l	100
63) 1,2,3-Trichlorobenzene	26.57	180	4804960	196.94	ug/l	98
64) 1,2,4-Trichlorobenzene	25.40	180	5211628	201.35	ug/l	98

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

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

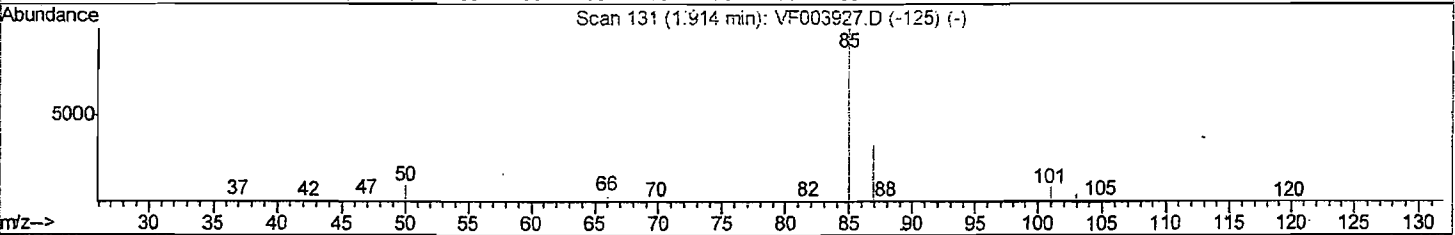
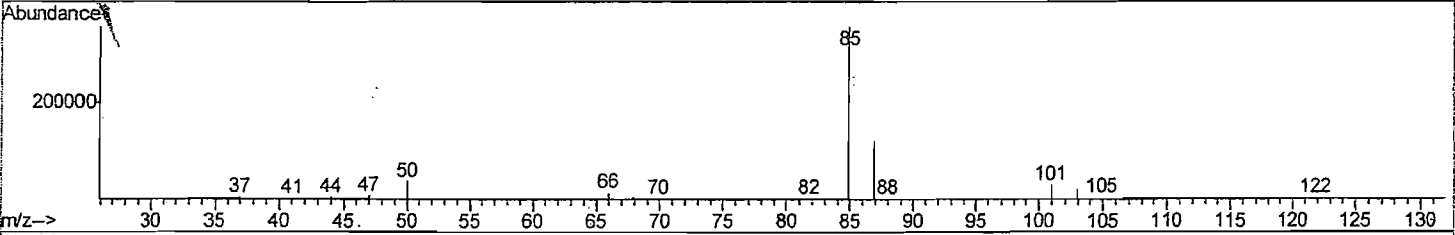
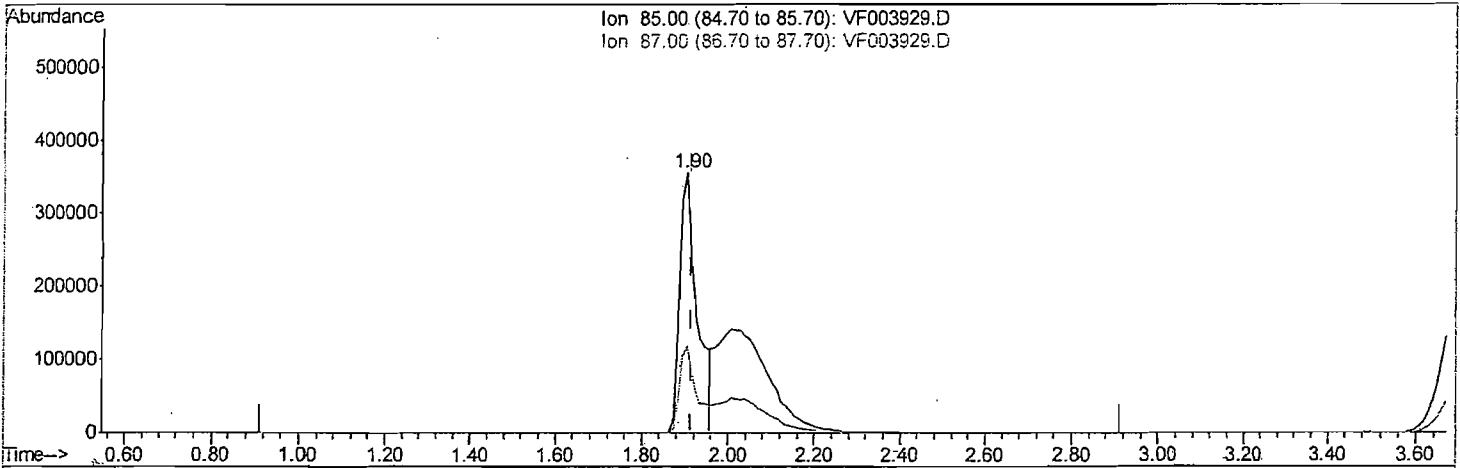
Quant Time: Sep 11 10:55:23 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:52:26 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003929.D

(2) Dichlorodifluoromethane

1.904min (-0.009) 91.56ug/l

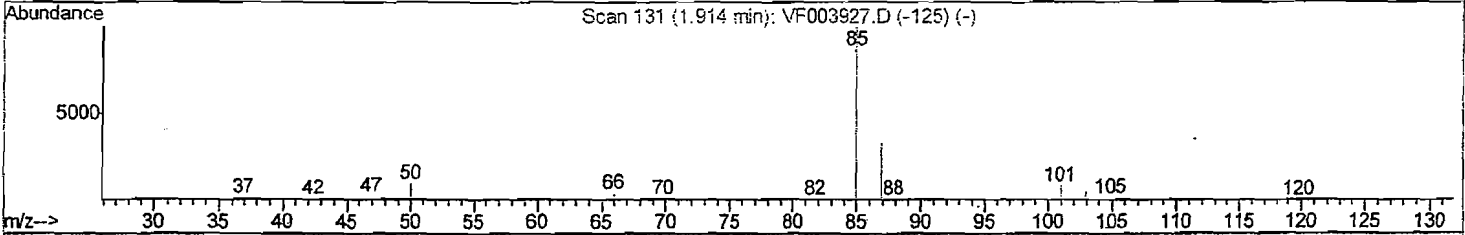
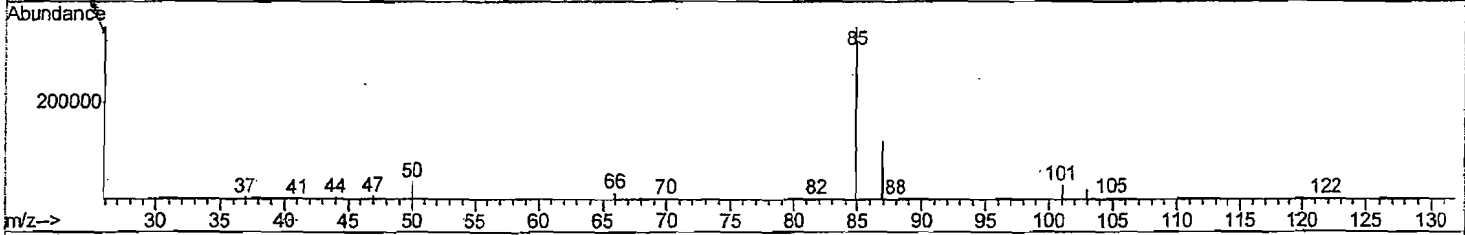
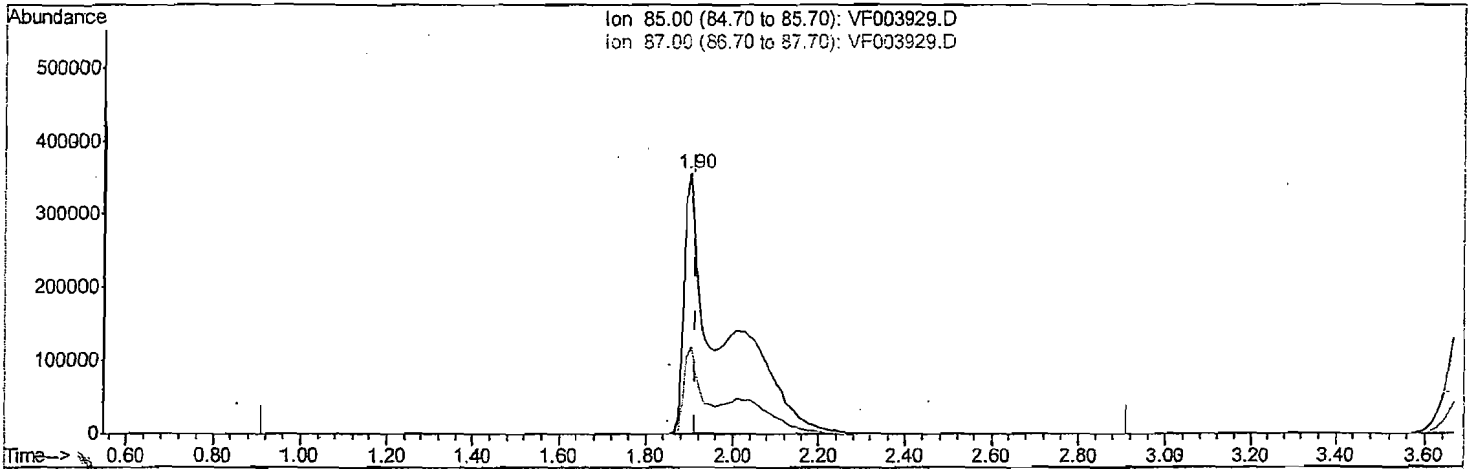
response 976560

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	33.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:52:26 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003929.D

(2) Dichlorodifluoromethane

1.904min (-0.009) 207.24ug/l m

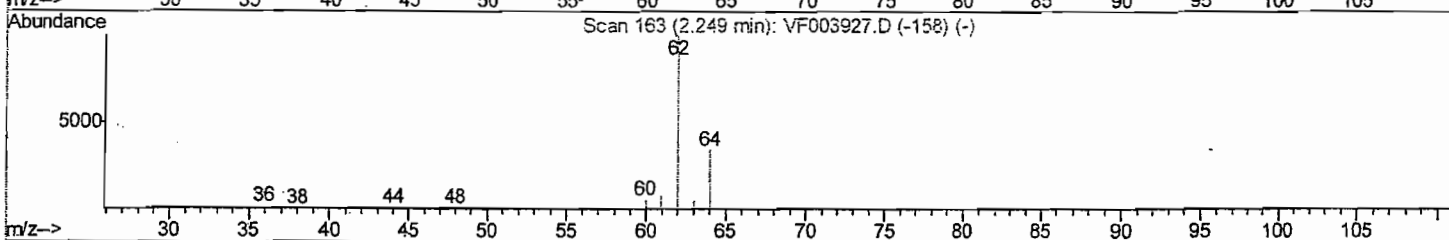
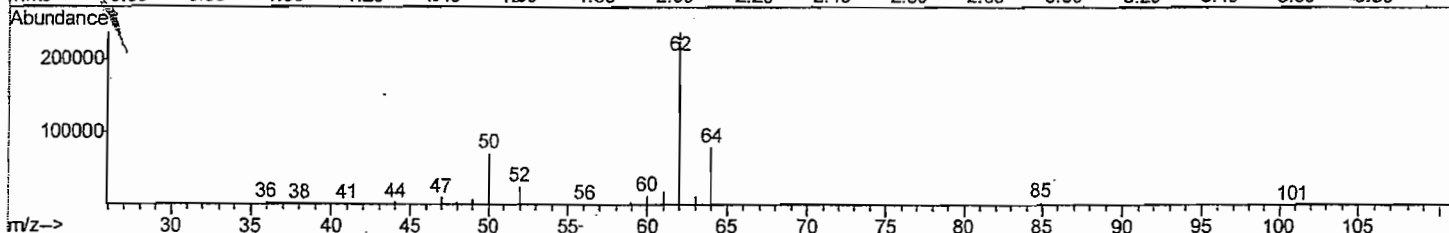
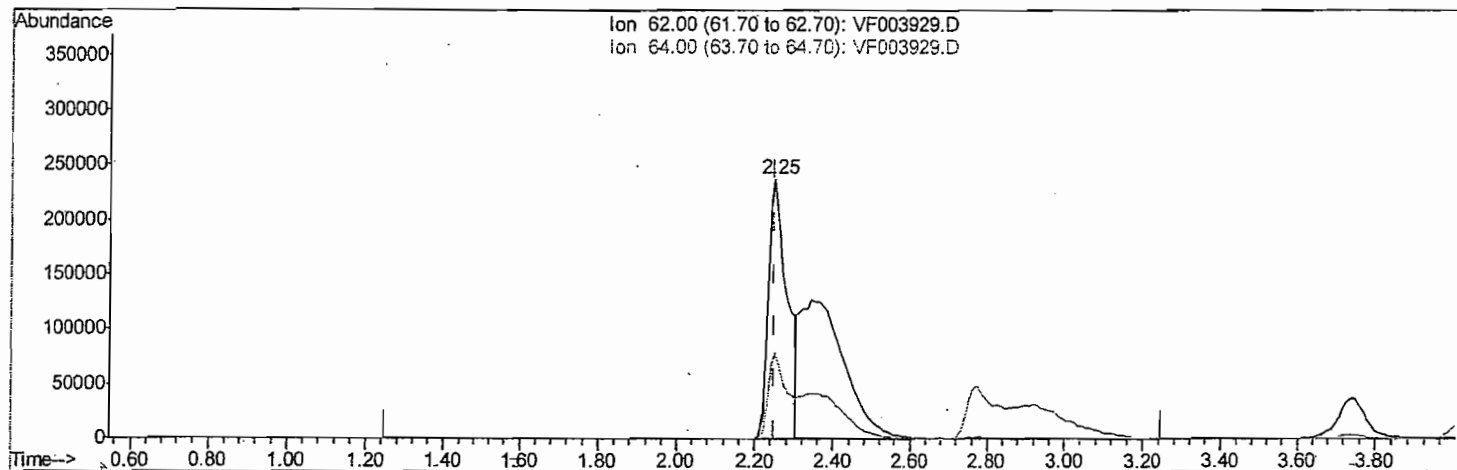
response 2210318

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	14.66#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 FPB-ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:52:26 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003929.D

(4) Vinyl Chloride (C)

2.251min(+0.002) 88.30ug/l

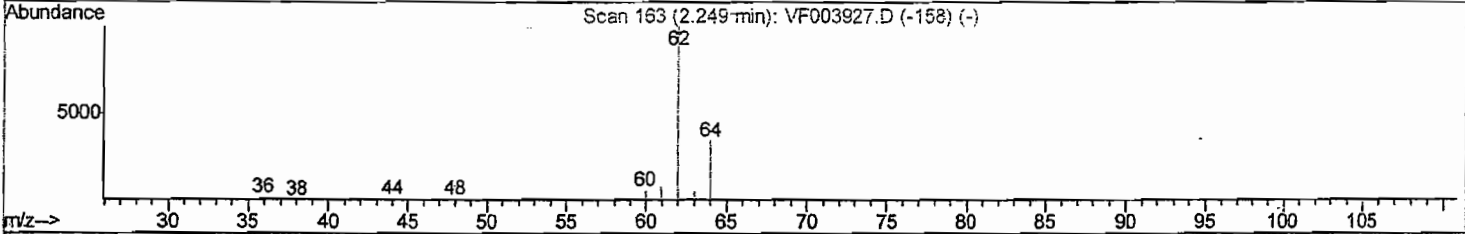
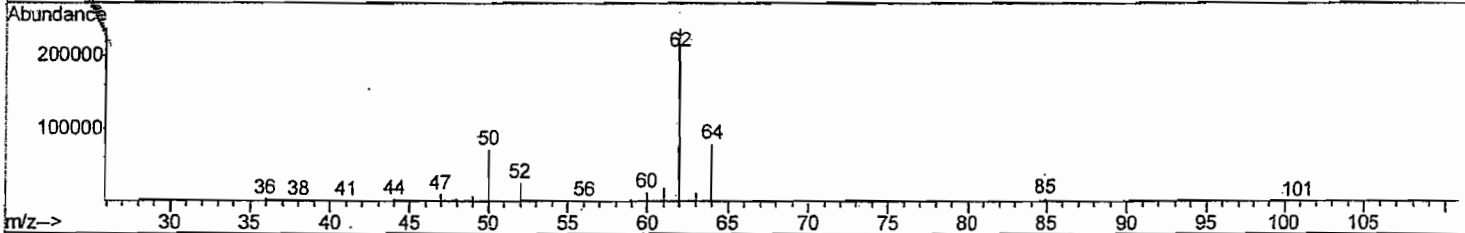
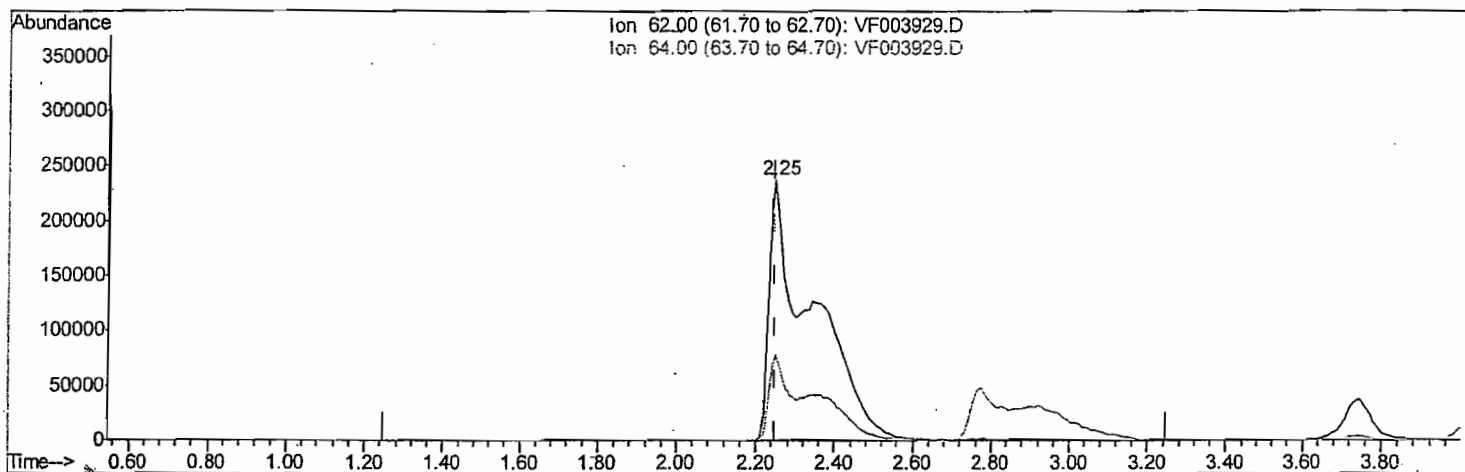
response 799665

Ion	Exp%	Act%
62.00	100	100
64.00	33.20	33.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:52:26 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003929.D

(4) Vinyl Chloride (C)

2.251min (+0.002) 201.30ug/l m

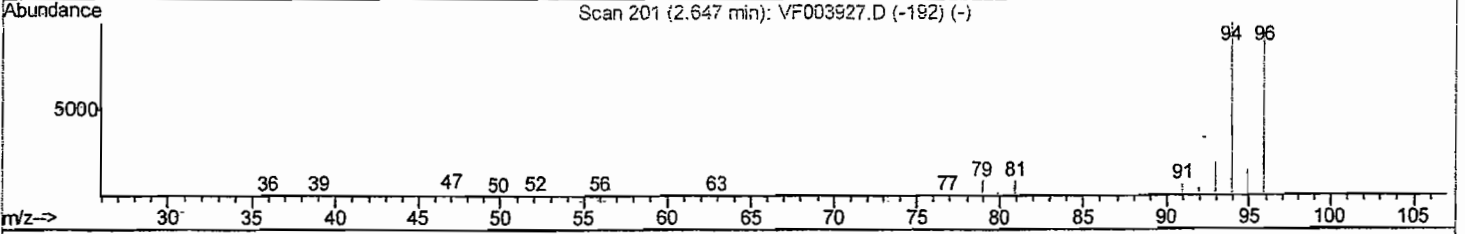
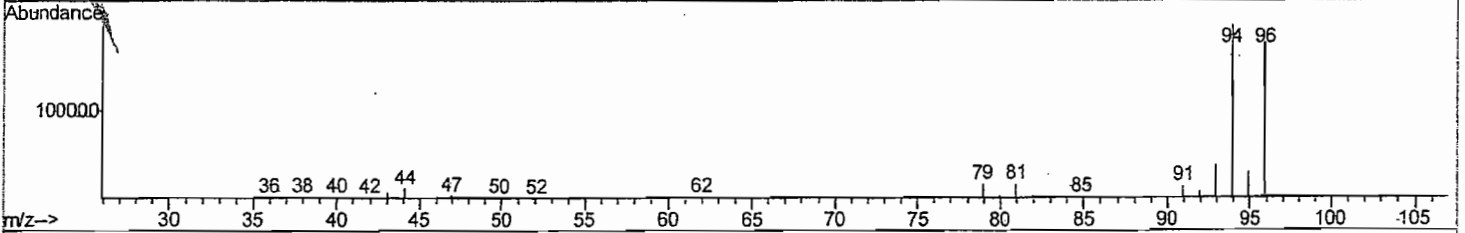
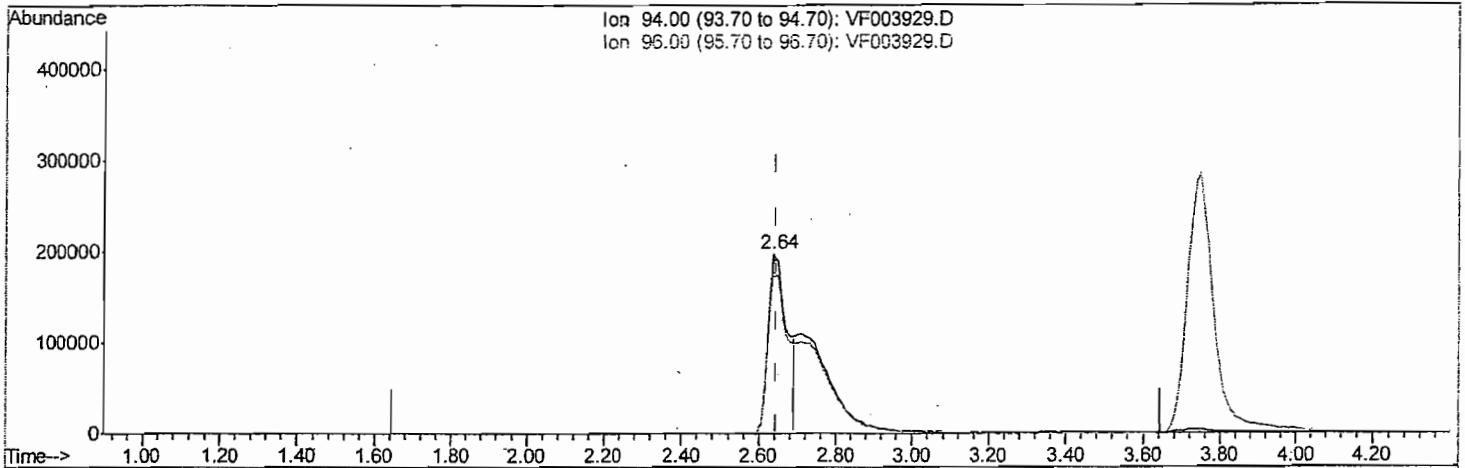
response 1823057

Ion	Exp%	Act%
62.00	100	100
64.00	33.20	14.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:52:26 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003929.D

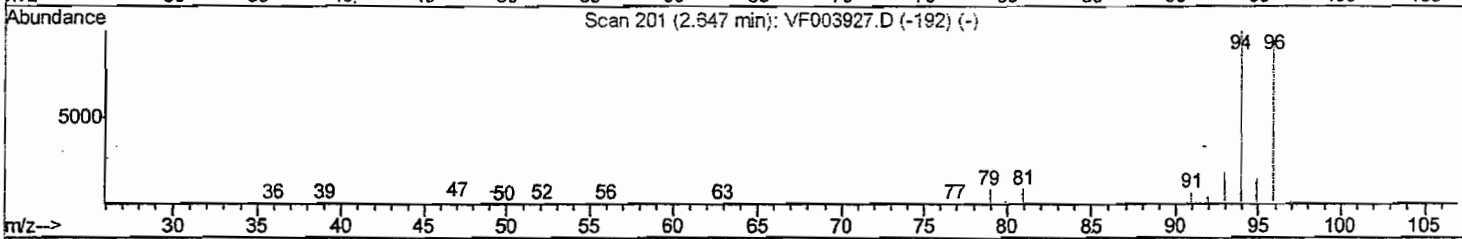
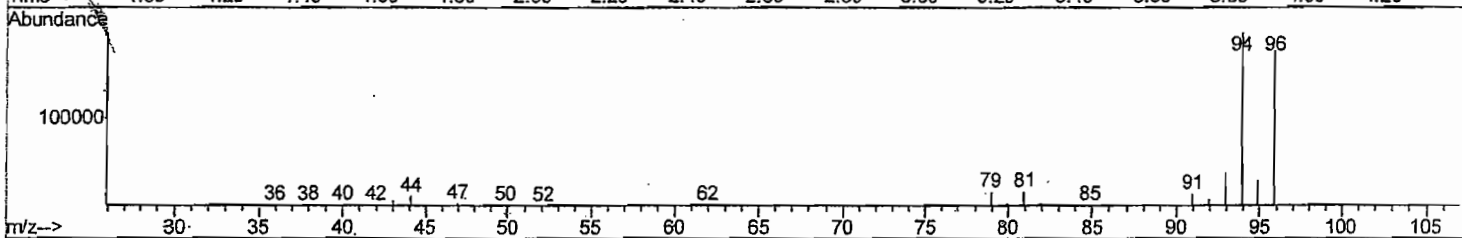
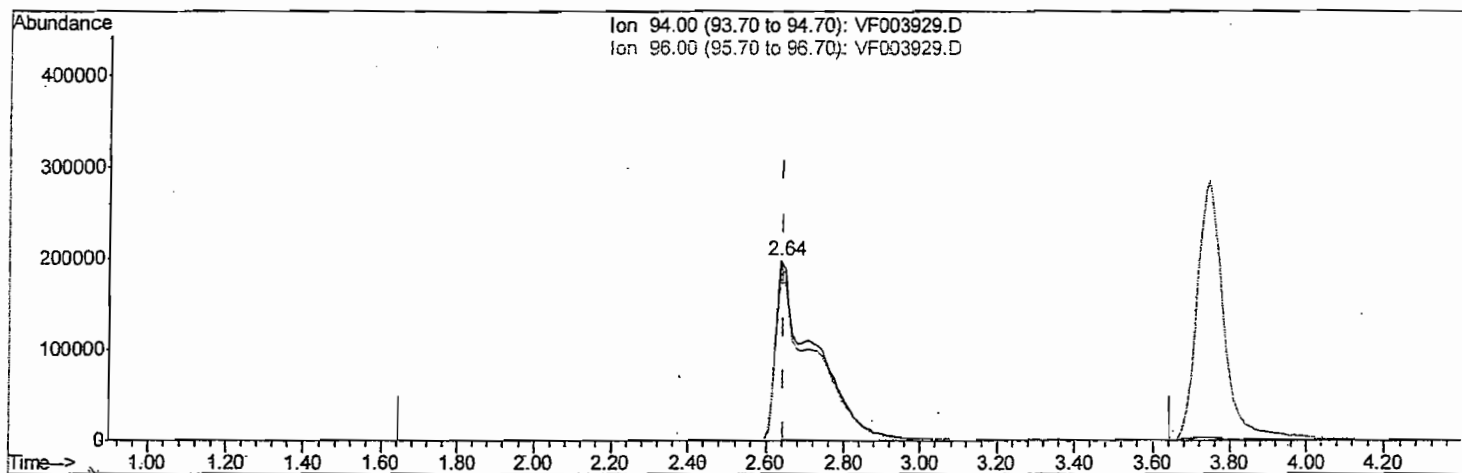
(5) Bromomethane ()
 2.638min (-0.009) 87.72ug/l
 response 672182

Ion	Exp%	Act%
94.00	100	100
96.00	91.70	92.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:52:26 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003929.D

(5) Bromomethane ()

2.638min (-0.009) 178.11ug/l m

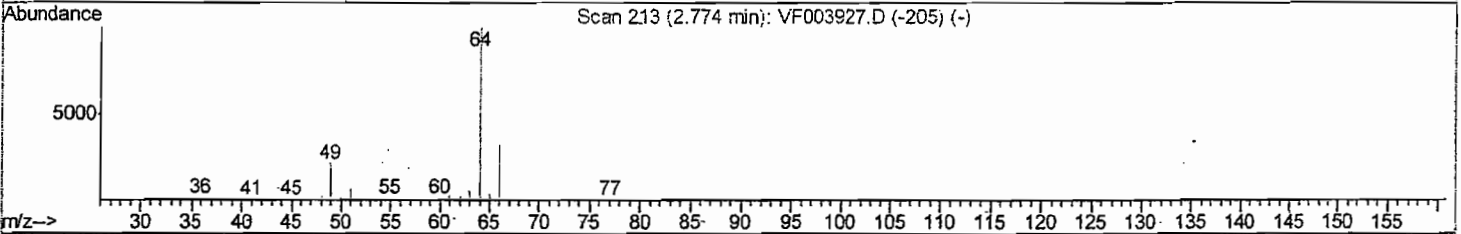
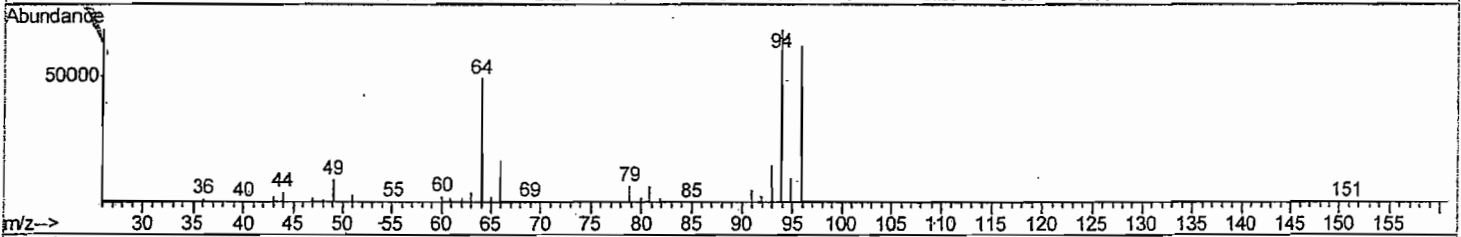
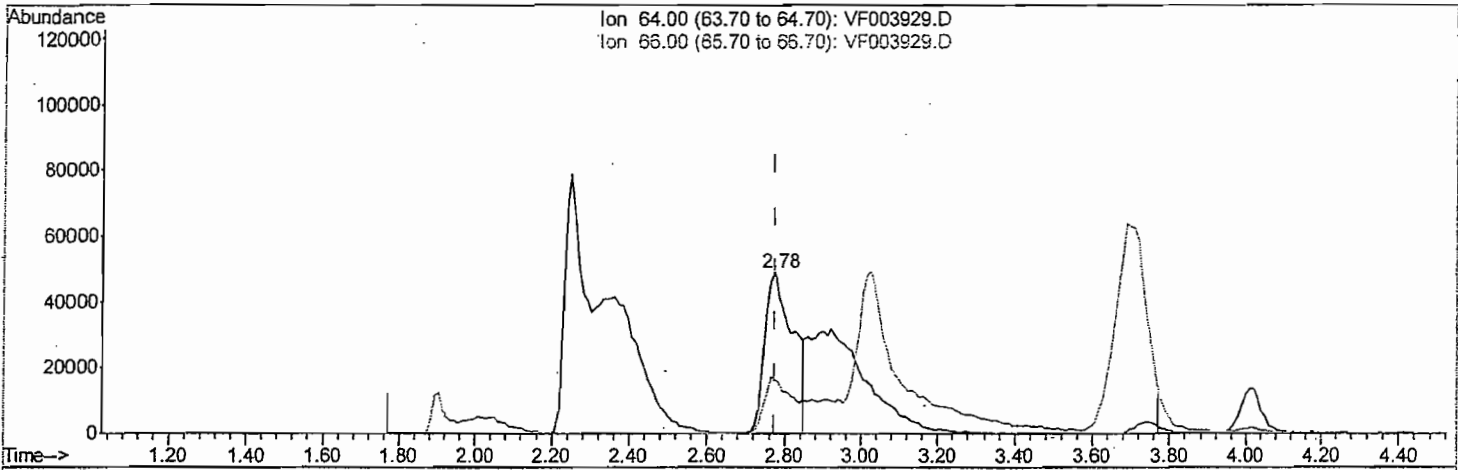
response 1364825

Ion	Exp%	Act%
94.00	100	100
96.00	91.70	45.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:52:26 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003929.D

(6) Chloroethane ()

2.775min (+0.001) 45.50ug/l

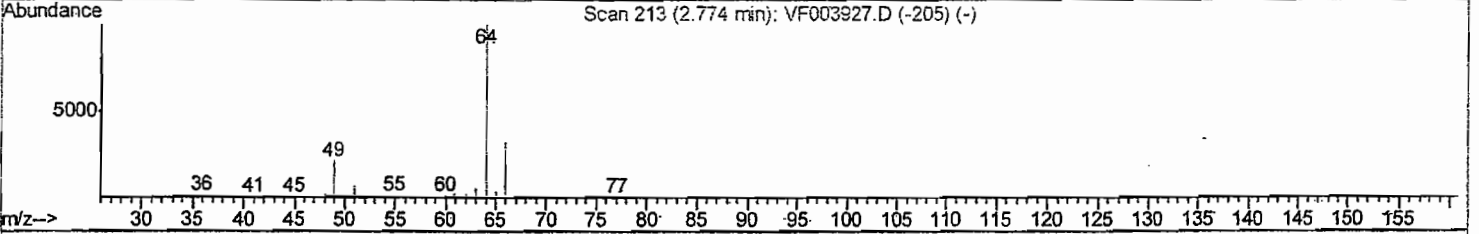
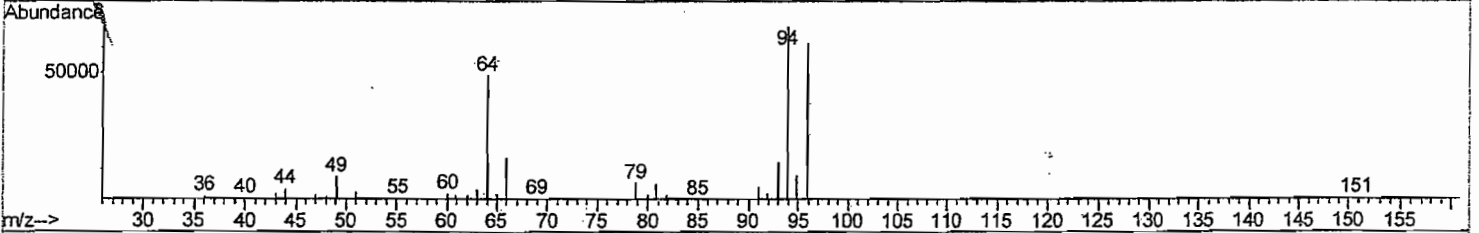
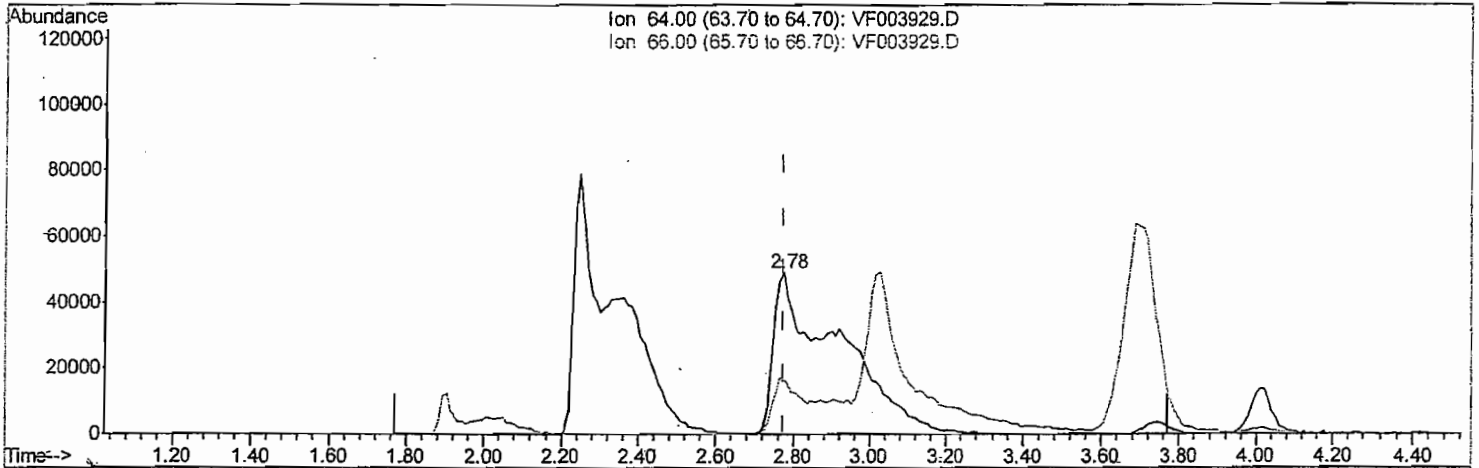
response 252337

Ion	Exp%	Act%
64.00	100	100
66.00	31.30	33.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003929.D
 Acq On : 9 Sep 2006 20:23
 Operator : SD
 Sample : 200 PPB ICC
 Misc : 5mL
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 11 10:52:26 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 09:46:50 2006
 Response via : Initial Calibration



TIC: VF003929.D

(6) Chloroethane ()

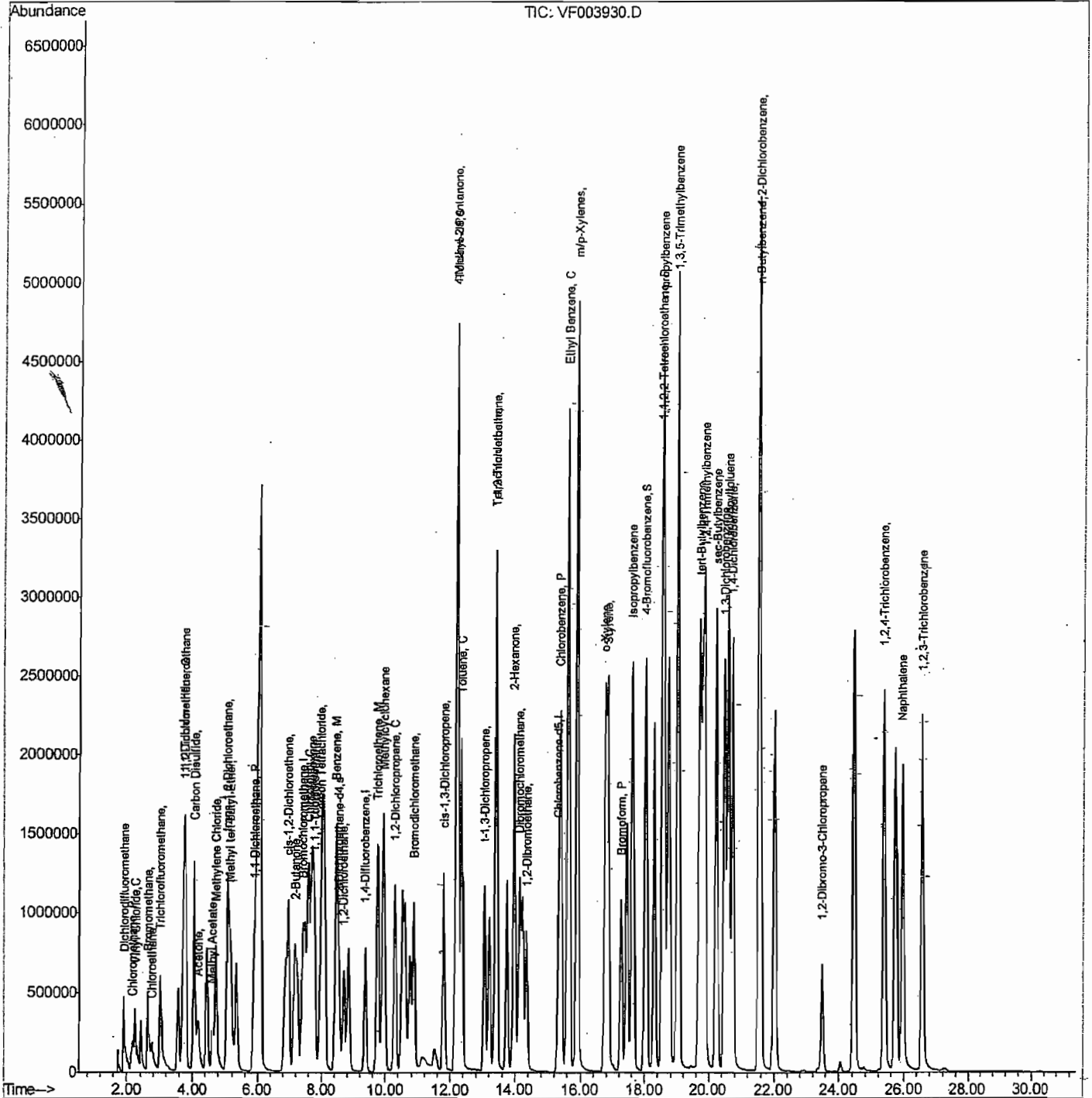
2.775min (+0.001) 106.69ug/l m

response 591696

Ion	Exp%	Act%
64.00	100	100
66.00	31.30	14.17#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003930.D
 Acq On : 9 Sep 2006 21:02
 Operator : SD
 Sample : 100 PPB ICV
 Misc : 5mL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 11:25:05 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:02:44 2006
 Response via : Initial Calibration



Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003930.D
 Acq On : 9 Sep 2006 21:02
 Operator : SD
 Sample : 100 PPB ICV
 Misc : 5mL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 11:25:05 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:02:44 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.41	128	361876	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.37	114	1802076	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1722356	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
20) 1,2-Dichloroethane-d4	8.55	65	1049373	97.76	ug/l	0.01
Spiked Amount 50.000			Recovery =	195.52%		
40) 4-Bromofluorobenzene	18.04	95	2490426	107.03	ug/l	0.00
Spiked Amount 50.000			Recovery =	214.06%		
43) Toluene-d8	12.20	98	4183275	109.01	ug/l	0.00
Spiked Amount 50.000			Recovery =	218.02%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	1090974	101.26	ug/l	100
3) Chloromethane	2.18	50	714416	99.76	ug/l	99
4) Vinyl Chloride	2.26	62	898546	98.99	ug/l	99
5) Bromomethane	2.65	94	780401	102.95	ug/l	97
6) Chloroethane	2.77	64	397440	79.27	ug/l	99
7) Trichlorofluoromethane	3.02	101	1533285	103.02	ug/l	93
8) 1,1,2-Trichlorotrifluoroet	3.74	101	1566329	104.95	ug/l	99
9) 1,1-Dichloroethene	3.78	96	826554	103.30	ug/l	98
10) Acetone	4.18	43	868538	424.13	ug/l	100
11) Carbon Disulfide	4.06	76	2586451	104.18	ug/l	99
12) Methyl Acetate	4.62	43	838368	89.19	ug/l	98
13) Methylene Chloride	4.71	84	966132	98.92	ug/l	94
14) trans-1,2-Dichloroethene	5.07	96	1018065	100.95	ug/l	97
15) 1,1-Dichloroethane	5.90	63	2038834	97.31	ug/l	99
16) cis-1,2-Dichloroethene	6.96	96	1169164	104.13	ug/l	96
17) Methyl tert-butyl Ether	5.14	73	2952108	100.59	ug/l	97
18) Chloroform	7.59	83	2084506	100.65	ug/l	100
19) Cyclohexane	7.69	56	1991342	101.26	ug/L	94
22) 2-Butanone	7.17	43	3359335	456.98	ug/l	99
23) 1,1,1-Trichloroethane	7.77	97	1722265	106.90	ug/l	100
24) Carbon Tetrachloride	7.98	117	1737752	108.50	ug/l	99
25) Benzene	8.46	78	3906058	103.54	ug/l	100
26) 1,2-Dichloroethane	8.69	62	1174282	98.44	ug/l	99
27) Trichloroethene	9.75	130	1460730	105.73	ug/l	99
28) Methylcyclohexane	9.94	83	2212999	109.76	ug/l	96
29) 1,2-Dichloropropane	10.29	63	1497844	98.18	ug/l	99
30) Bromodichloromethane	10.87	83	1913874	103.53	ug/l	100
31) t-1,3-Dichloropropene	13.05	75	1895979	100.63	ug/l	99
32) cis-1,3-Dichloropropene	11.81	75	2209011	101.16	ug/l	100
33) 1,1,2-Trichloroethane	13.41	97	1332951	102.28	ug/l	99
34) Dibromochloromethane	14.14	129	1911417	105.27	ug/l	99
35) 1,2-Dibromoethane	14.36	107	1687217	99.74	ug/l	99
36) Bromoform	17.27	173	1580926	107.41	ug/l	100
38) 4-Methyl-2-Pentanone	12.19	43	6229133	466.33	ug/l	91
39) 2-Hexanone	13.98	43	4153335	457.16	ug/l	97
41) Tetrachloroethene	13.41	164	1458697	111.27	ug/l	99
42) Toluene	12.34	91	4546677	105.16	ug/l	99

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003930.D
 Acq On : 9 Sep 2006 21:02
 Operator : SD
 Sample : 100 PPB ICV
 Misc : 5mL
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 11 11:25:05 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:02:44 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.40	112	3306941	105.72	ug/l	99
45) Ethyl Benzene	15.62	91	5978870	106.07	ug/l	99
46) m/p-Xylenes	15.90	91	9149535	216.85	ug/l	100
47) o-Xylene	16.78	91	4459483	106.14	ug/l	99
48) Styrene	16.86	104	3502874	106.24	ug/l	99
49) Isopropylbenzene	17.62	105	5816144	108.19	ug/l	99
50) 1,1,2,2-Tetrachloroethane	18.55	83	2381811	100.73	ug/l	97
51) n-propylbenzene	18.57	91	8005131	107.20	ug/l	100
52) 1,3,5-Trimethylbenzene	19.03	105	4828276	106.54	ug/l	100
53) tert-Butylbenzene	19.72	119	6674639	105.84	ug/l	98
54) 1,2,4-Trimethylbenzene	19.87	105	4741067	105.01	ug/l	99
55) sec-Butylbenzene	20.23	105	7256113	108.66	ug/l	100
56) p-Isopropyltoluene	20.60	119	6112709	106.88	ug/l	99
57) 1,3-Dichlorobenzene	20.49	146	3486236	105.16	ug/l	99
58) 1,4-Dichlorobenzene	20.73	146	3722760	106.91	ug/l	98
59) n-Butylbenzene	21.56	91	6312902	109.16	ug/l	99
60) 1,2-Dichlorobenzene	21.58	146	3477760	105.56	ug/l	99
61) 1,2-Dibromo-3-Chloropropan	23.49	75	490056	104.31	ug/l	99
62) Naphthalene	25.96	128	5165229	109.75	ug/l	100
63) 1,2,3-Trichlorobenzene	26.57	180	2430747	108.67	ug/l	98
64) 1,2,4-Trichlorobenzene	25.39	180	2605076	109.50	ug/l	99

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Instrument ID: MSVOAF Calibration Date/Time: 9/11/2006 12:04
 Lab File ID: VF003941.D Init. Calib. Date(s): 9/9/2006 9/9/2006
 Heated Purge: (Y/N) N Init. Calib. Time(s): 17:48 20:23
 GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.989	0.997		0.8	
Vinyl Chloride	1.254	1.307	0.100	4.2	25.0
Bromomethane	1.048	1.029	0.100	-1.8	25.0
Chloroethane	0.693	0.735		6.1	
1,1-Dichloroethene	1.106	1.189	0.100	7.5	25.0
Acetone	0.283	0.276		-2.5	
Carbon Disulfide	3.430	3.776		10.1	
Methylene Chloride	1.349	1.357		0.6	
trans-1,2-Dichloroethene	1.393	1.457		4.6	
1,1-Dichloroethane	2.895	2.903	0.200	0.3	25.0
2-Butanone	0.204	0.204		0.0	
Carbon Tetrachloride	0.445	0.467	0.100	4.9	25.0
cis-1,2-Dichloroethene	1.551	1.601		3.2	
Chloroform	2.862	2.814	0.200	-1.7	25.0
1,1,1-Trichloroethane	0.447	0.470	0.100	5.1	25.0
Benzene	1.047	1.079	0.500	3.1	25.0
1,2-Dichloroethane	0.331	0.330	0.100	-0.3	25.0
Trichloroethene	0.383	-0.392	0.300	2.3	25.0
1,2-Dichloropropane	0.423	0.414		-2.1	
Bromodichloromethane	0.513	0.517	0.200	0.8	25.0
4-Methyl-2-Pentanone	-0.388	0.413		6.4	
Toluene	1.255	1.287	0.400	2.5	25.0
t-1,3-Dichloropropene	0.523	0.515	0.100	-1.5	
cis-1,3-Dichloropropene	0.606	0.611	0.200	0.8	25.0
1,1,2-Trichloroethane	0.362	0.363	0.100	0.3	25.0
2-Hexanone	0.264	0.277		4.9	
Dibromochloromethane	0.504	0.510	0.100	1.2	
Tetrachloroethene	0.381	-0.417	0.200	9.4	25.0
Chlorobenzene	0.908	0.954	0.500	5.1	25.0
Ethyl Benzene	1.636	1.693	0.100	3.5	25.0
m/p-Xylenes	1.225	1.250	0.300	2.0	
o-Xylene	1.220	1.256	0.300	3.0	25.0
Styrene	0.957	0.982	0.300	2.6	25.0
Bromoform	0.409	0.425	0.100	3.9	25.0
1,1,2,2-Tetrachloroethane	0.687	0.703	0.300	2.3	25.0
1,2-Dichloroethane-d4	1.483	1.436	0.010	-3.2	25.0
Toluene-d8	1.114	1.179	0.010	5.8	25.0
4-Bromofluorobenzene	0.675	0.695	0.200	3.0	25.0

All other compounds must meet a minimum RRF of 0.010.

Evaluate Continuing Calibration Report

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003941.D
 Acq On : 11 Sep 2006 12:04
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 13:37:50 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	50.000	50.000	0.0	120	0.00
2	Dichlorodifluoromethane	50.000	52.008	-4.0	122	0.00
3 P	Chloromethane	50.000	50.393	-0.8	118	0.00
4 C	Vinyl Chloride	50.000	52.094	-4.2#	122	0.00
5	Bromomethane	50.000	49.101	1.8	113	0.00
6	Chloroethane	50.000	53.036	-6.1	112	0.00
7	Trichlorofluoromethane	50.000	53.883	-7.8	126	0.00
8	1,1,2-Trichlorotrifluoroeth	50.000	56.482	-13.0	129	0.00
9 C	1,1-Dichloroethene	50.000	53.781	-7.6#	121	0.00
10	Acetone	250.000	243.885	2.4	113	0.00
11	Carbon Disulfide	50.000	55.038	-10.1	125	0.00
12	Methyl Acetate	50.000	51.223	-2.4	118	0.00
13	Methylene Chloride	50.000	50.269	-0.5	118	0.00
14	trans-1,2-Dichloroethene	50.000	52.266	-4.5	121	0.00
15 P	1,1-Dichloroethane	50.000	50.133	-0.3	115	0.00
16	cis-1,2-Dichloroethene	50.000	51.596	-3.2	119	0.00
17	Methyl tert-butyl Ether	50.000	51.332	-2.7	118	0.00
18 C	Chloroform	50.000	49.174	1.7#	113	0.00
19	Cyclohexane	50.000	50.171	-0.3	117	0.00
20 s	1,2-Dichloroethane-d4	50.000	48.406	3.2	113	0.00
21 I	1,4-Difluorobenzene	50.000	50.000	0.0	120	0.00
22	2-Butanone	250.000	250.614	-0.2	113	0.00
23	1,1,1-Trichloroethane	50.000	52.611	-5.2	121	0.00
24	Carbon Tetrachloride	50.000	52.547	-5.1	123	0.00
25 M	Benzene	50.000	51.537	-3.1	118	0.00
26	1,2-Dichloroethane	50.000	49.908	0.2	112	0.00
27 M	Trichloroethene	50.000	51.156	-2.3	118	0.00
28	Methylcyclohexane	50.000	53.031	-6.1	123	0.00
29 C	1,2-Dichloropropane	50.000	48.939	2.1#	110	0.00
30	Bromodichloromethane	50.000	50.402	-0.8	115	0.00
31	t-1,3-Dichloropropene	50.000	49.290	1.4	112	0.00
32	cis-1,3-Dichloropropene	50.000	50.417	-0.8	115	0.00
33	1,1,2-Trichloroethane	50.000	50.225	-0.5	115	0.00
34	Dibromochloromethane	50.000	50.636	-1.3	114	0.00
35	1,2-Dibromoethane	50.000	49.969	0.1	113	0.00
36 P	Bromoform	50.000	51.980	-4.0	115	0.00
37 I	Chlorobenzene-d5	50.000	50.000	0.0	114	0.00
38	4-Methyl-2-Pentanone	250.000	266.080	-6.4	115	0.00
39	2-Hexanone	250.000	262.223	-4.9	109	0.00
40 S	4-Bromofluorobenzene	50.000	51.464	-2.9	113	0.00
41	Tetrachloroethene	50.000	54.803	-9.6	122	0.00
42 C	Toluene	50.000	51.262	-2.5#	112	0.00
43 S	Toluene-d8	50.000	52.932	-5.9	119	0.00
44 P	Chlorobenzene	50.000	52.514	-5.0	115	0.00

Evaluate Continuing Calibration Report.

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003941.D
 Acq On : 11 Sep 2006 12:04
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 13:37:50 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

Compound		Amount	Calc.	%Dev	Area%	Dev(min)
45	C Ethyl Benzene	50.000	51.718	-3.4#	112	0.00
46	m/p-Xylenes	100.000	102.060	-2.1	109	0.00
47	o-Xylene	50.000	51.491	-3.0	112	0.00
48	Styrene	50.000	51.294	-2.6	110	0.00
49	Isopropylbenzene	50.000	53.956	-7.9	117	0.00
50	P 1,1,2,2-Tetrachloroethane	50.000	51.238	-2.5	108	0.00
51	n-propylbenzene	50.000	51.567	-3.1	111	0.00
52	1,3,5-Trimethylbenzene	50.000	53.220	-6.4	114	0.00
53	tert-Butylbenzene	50.000	54.115	-8.2	115	0.00
54	1,2,4-Trimethylbenzene	50.000	53.487	-7.0	114	0.00
55	sec-Butylbenzene	50.000	54.139	-8.3	115	0.00
56	p-Isopropyltoluene	50.000	55.356	-10.7	117	0.00
57	1,3-Dichlorobenzene	50.000	53.172	-6.3	114	0.00
58	1,4-Dichlorobenzene	50.000	53.390	-6.8	114	0.00
59	n-Butylbenzene	50.000	52.330	-4.7	110	0.00
60	1,2-Dichlorobenzene	50.000	52.621	-5.2	112	0.00
61	1,2-Dibromo-3-Chloropropane	50.000	51.615	-3.2	109	0.00
62	Naphthalene	50.000	52.886	-5.8	112	0.00
63	1,2,3-Trichlorobenzene	50.000	55.442	-10.9	115	0.00
64	1,2,4-Trichlorobenzene	50.000	55.976	-12.0	116	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003941.D
 Acq On : 11 Sep 2006 12:04
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 13:37:50 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.43	128	383755	50.00	ug/l	0.02
21) 1,4-Difluorobenzene	9.39	114	1919403	50.00	ug/l	0.02
37) Chlorobenzene-d5	15.36	117	1791772	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
20) 1,2-Dichloroethane-d4	8.56	65	551016	48.41	ug/l	0.02
Spiked Amount						
						Recovery = 96.82%
40) 4-Bromofluorobenzene	18.06	95	1245729	51.46	ug/l	0.02
Spiked Amount						Recovery = 102.92%
43) Toluene-d8	12.22	98	2113085	52.93	ug/l	0.02
Spiked Amount						Recovery = 105.86%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.93	85	594187	52.01	ug/l	100
3) Chloromethane	2.22	50	382703	50.39	ug/l	98
4) Vinyl Chloride	2.27	62	501471	52.09	ug/l	99
5) Bromomethane	2.67	94	394714	49.10	ug/l	100
6) Chloroethane	2.80	64	281976	53.04	ug/l	99
7) Trichlorofluoromethane	3.05	101	850464	53.88	ug/l	98
8) 1,1,2-Trichlorotrifluoroet	3.78	101	893964	56.48	ug/l	99
9) 1,1-Dichloroethene	3.83	96	456344	53.78	ug/l	99
10) Acetone	4.15	43	529623	243.89	ug/l	100
11) Carbon Disulfide	4.11	76	1449063	55.04	ug/l	99
12) Methyl Acetate	4.62	43	510599	51.22	ug/l	99
13) Methylene Chloride	4.74	84	520641	50.27	ug/l	98
14) trans-1,2-Dichloroethene	5.10	96	558957	52.27	ug/l	98
15) 1,1-Dichloroethane	5.91	63	1113907	50.13	ug/l	98
16) cis-1,2-Dichloroethene	6.98	96	614322	51.60	ug/l	99
17) Methyl tert-butyl Ether	5.15	73	1597538	51.33	ug/l	98
18) Chloroform	7.59	83	1079972	49.17	ug/l	100
19) Cyclohexane	7.72	56	1046257	50.17	ug/L	96
22) 2-Butanone	7.16	43	1962236	250.61	ug/l	100
23) 1,1,1-Trichloroethane	7.78	97	902798	52.61	ug/l	100
24) Carbon Tetrachloride	8.01	117	896418	52.55	ug/l	99
25) Benzene	8.48	78	2070862	51.54	ug/l	100
26) 1,2-Dichloroethane	8.70	62	634084	49.91	ug/l	99
27) Trichloroethene	9.77	130	752751	51.16	ug/l	99
28) Methylcyclohexane	9.96	83	1138787	53.03	ug/l	98
29) 1,2-Dichloropropane	10.31	63	795242	48.94	ug/l	100
30) Bromodichloromethane	10.88	83	992458	50.40	ug/l	99
31) t-1,3-Dichloropropene	13.07	75	989124	49.29	ug/l	99
32) cis-1,3-Dichloropropene	11.81	75	1172632	50.42	ug/l	98
33) 1,1,2-Trichloroethane	13.43	97	697140	50.22	ug/l	97
34) Dibromochloromethane	14.16	129	979280	50.64	ug/l	100
35) 1,2-Dibromoethane	14.37	107	900274	49.97	ug/l	99
36) Bromoform	17.29	173	814864	51.98	ug/l	99
38) 4-Methyl-2-Pentanone	12.20	43	3697481	266.08	ug/l	96
39) 2-Hexanone	13.98	43	2478327	262.22	ug/l	98
41) Tetrachloroethene	13.43	164	747388	54.80	ug/l	97
42) Toluene	12.36	91	2305737	51.26	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003941.D
 Acq On : 11 Sep 2006 12:04
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

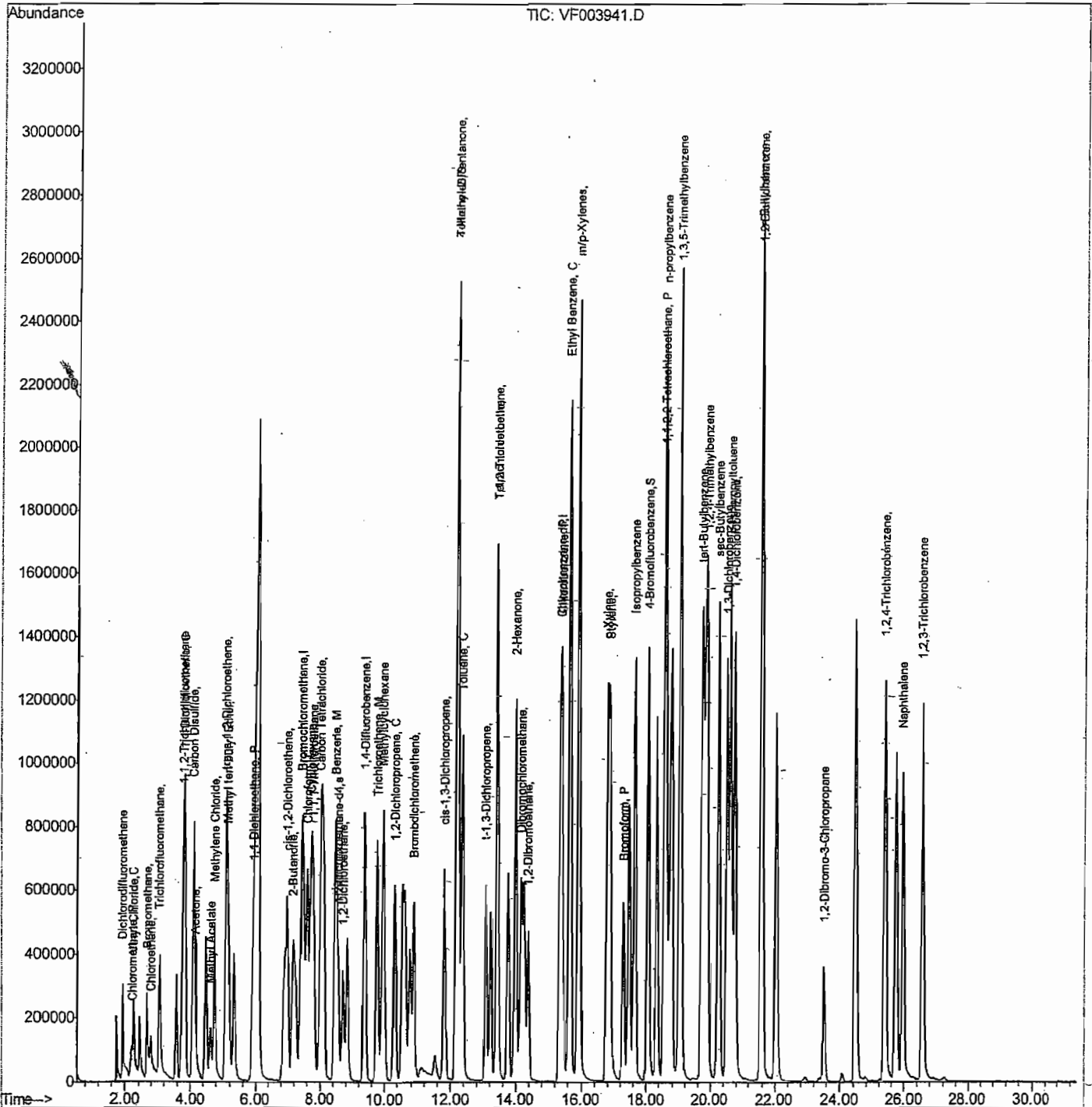
Quant Time: Sep 11 13:37:50 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.42	112	1708929	52.51	ug/l	100
45) Ethyl Benzene	15.64	91	3032759	51.72	ug/l	98
46) m/p-Xylenes	15.93	91	4479792	102.06	ug/l	96
47) o-Xylene	16.80	91	2250612	51.49	ug/l	98
48) Styrene	16.87	104	1759398	51.29	ug/l	100
49) Isopropylbenzene	17.64	105	3017622	53.96	ug/l	99
50) 1,1,2,2-Tetrachloroethane	18.56	83	1260388	51.24	ug/l	96
51) n-propylbenzene	18.59	91	4005864	51.57	ug/l	99
52) 1,3,5-Trimethylbenzene	19.04	105	2509156	53.22	ug/l	99
53) tert-Butylbenzene	19.74	119	3550289	54.11	ug/l	98
54) 1,2,4-Trimethylbenzene	19.89	105	2512285	53.49	ug/l	100
55) sec-Butylbenzene	20.26	105	3761137	54.14	ug/l	99
56) p-Isopropyltoluene	20.63	119	3293549	55.36	ug/l	99
57) 1,3-Dichlorobenzene	20.52	146	1833830	53.17	ug/l	98
58) 1,4-Dichlorobenzene	20.76	146	1934092	53.39	ug/l	98
59) n-Butylbenzene	21.57	91	3148194	52.33	ug/l	98
60) 1,2-Dichlorobenzene	21.60	146	1803534	52.62	ug/l	99
61) 1,2-Dibromo-3-Chloropropan	23.52	75	252258	51.62	ug/l	93
62) Naphthalene	25.97	128	2589382	52.89	ug/l	100
63) 1,2,3-Trichlorobenzene	26.56	180	1290084	55.44	ug/l	99
64) 1,2,4-Trichlorobenzene	25.39	180	1385420	55.98	ug/l	100

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

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003941.D
 Acq On : 11 Sep 2006 12:04
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 13:37:50 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Initial Calibration



Evaluate Continuing Calibration Report.

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003941.D
 Acq On : 11 Sep 2006 12:04
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 13:37:50 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	120	0.00
2	Dichlorodifluoromethane	1.489	1.548	-4.0	122	0.00
3 P	Chloromethane	0.989	0.997	-0.8	118	0.00
4 C	Vinyl Chloride	1.254	1.307	-4.2#	122	0.00
5	Bromomethane	1.047	1.029	1.7	113	0.00
6	Chloroethane	0.693	0.735	-6.1	112	0.00
7	Trichlorofluoromethane	2.056	2.216	-7.8	126	0.00
8	1,1,2-Trichlorotrifluoroeth	2.062	2.330	-13.0	129	0.00
9 C	1,1-Dichloroethene	1.106	1.189	-7.5#	121	0.00
10	Acetone	0.283	0.276	2.5	113	0.00
11	Carbon Disulfide	3.430	3.776	-10.1	125	0.00
12	Methyl Acetate	1.299	1.331	-2.5	118	0.00
13	Methylene Chloride	1.349	1.357	-0.6	118	0.00
14	trans-1,2-Dichloroethene	1.393	1.457	-4.6	121	0.00
15 P	1,1-Dichloroethane	2.895	2.903	-0.3	115	0.00
16	cis-1,2-Dichloroethene	1.551	1.601	-3.2	119	0.00
17	Methyl tert-butyl Ether	4.055	4.163	-2.7	118	0.00
18 C	Chloroform	2.862	2.814	1.7#	113	0.00
19	Cyclohexane	2.717	2.726	-0.3	117	0.00
20 s	1,2-Dichloroethane-d4	1.483	1.436	3.2	113	0.00
21 I	1,4-Difluorobenzene	1.000	1.000	0.0	120	0.00
22	2-Butanone	0.204	0.204	0.0	113	0.00
23	1,1,1-Trichloroethane	0.447	0.470	-5.1	121	0.00
24	Carbon Tetrachloride	0.444	0.467	-5.2	123	0.00
25 M	Benzene	1.047	1.079	-3.1	118	0.00
26	1,2-Dichloroethane	0.331	0.330	0.3	112	0.00
27 M	Trichloroethene	0.383	0.392	-2.3	118	0.00
28	Methylcyclohexane	0.559	0.593	-6.1	123	0.00
29 C	1,2-Dichloropropane	0.423	0.414	2.1#	110	0.00
30	Bromodichloromethane	0.513	0.517	-0.8	115	0.00
31	t-1,3-Dichloropropene	0.523	0.515	1.5	112	0.00
32	cis-1,3-Dichloropropene	0.606	0.611	-0.8	115	0.00
33	1,1,2-Trichloroethane	0.362	0.363	-0.3	115	0.00
34	Dibromochloromethane	0.504	0.510	-1.2	114	0.00
35	1,2-Dibromoethane	0.469	0.469	0.0	113	0.00
36 P	Bromoform	0.408	0.425	-4.2	115	0.00
37 I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00
38	4-Methyl-2-Pentanone	0.388	0.413	-6.4	115	0.00
39	2-Hexanone	0.264	0.277	-4.9	109	0.00
40 S	4-Bromofluorobenzene	0.675	0.695	-3.0	113	0.00
41	Tetrachloroethene	0.381	0.417	-9.4	122	0.00
42 C	Toluene	1.255	1.287	-2.5#	112	0.00
43 S	Toluene-d8	1.114	1.179	-5.8	119	0.00
44 P	Chlorobenzene	0.908	0.954	-5.1	115	0.00

Evaluate Continuing Calibration Report

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003941.D
 Acq On : 11 Sep 2006 12:04
 Operator : SD
 Sample : 50 PPB ICC
 Misc : 5mL
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 11 13:37:50 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
45	C Ethyl Benzene	1.636	1.693	-3.5#	112	0.00
46	m/p-Xylenes	1.225	1.250	-2.0	109	0.00
47	o-Xylene	1.220	1.256	-3.0	112	0.00
48	Styrene	0.957	0.982	-2.6	110	0.00
49	Isopropylbenzene	1.561	1.684	-7.9	117	0.00
50	P 1,1,2,2-Tetrachloroethane	0.686	0.703	-2.5	108	0.00
51	n-propylbenzene	2.168	2.236	-3.1	111	0.00
52	1,3,5-Trimethylbenzene	1.316	1.400	-6.4	114	0.00
53	tert-Butylbenzene	1.831	1.981	-8.2	115	0.00
54	1,2,4-Trimethylbenzene	1.311	1.402	-6.9	114	0.00
55	sec-Butylbenzene	1.939	2.099	-8.3	115	0.00
56	p-Isopropyltoluene	1.660	1.838	-10.7	117	0.00
57	1,3-Dichlorobenzene	0.962	1.023	-6.3	114	0.00
58	1,4-Dichlorobenzene	1.011	1.079	-6.7	114	0.00
59	n-Butylbenzene	1.679	1.757	-4.6	110	0.00
60	1,2-Dichlorobenzene	0.956	1.007	-5.3	112	0.00
61	1,2-Dibromo-3-Chloropropane	0.136	0.141	-3.7	109	0.00
62	Naphthalene	1.366	1.445	-5.8	112	0.00
63	1,2,3-Trichlorobenzene	0.649	0.720	-10.9	115	0.00
64	1,2,4-Trichlorobenzene	0.691	0.773	-11.9	116	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

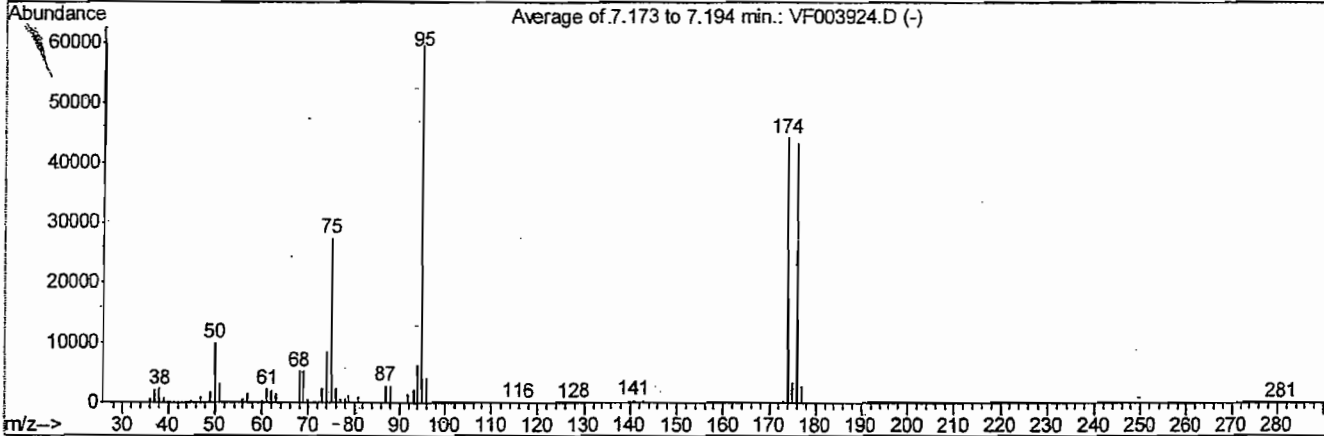
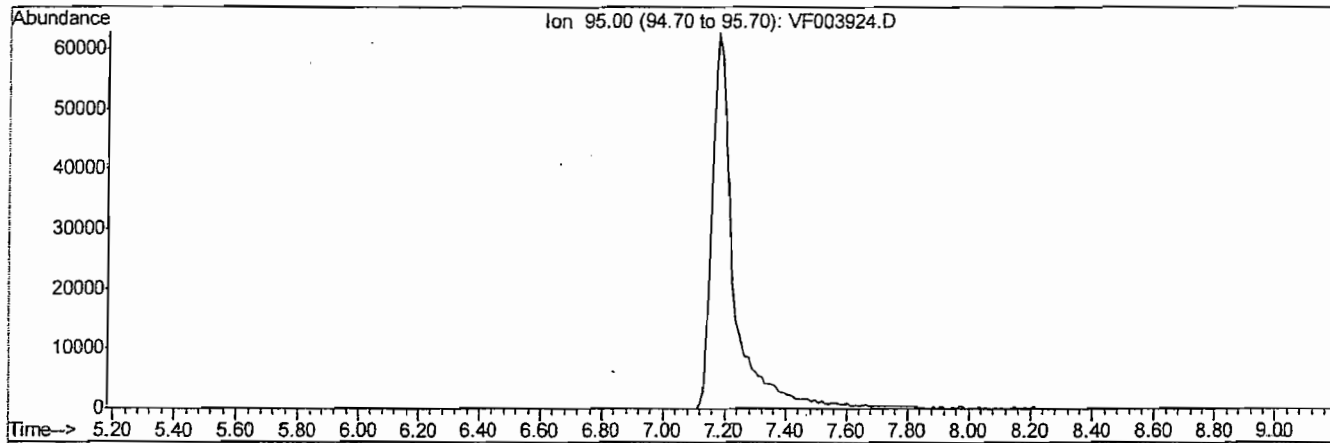
CHEMTECH

VOLATILES
RAW QC
DATA

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003924.D
 Acq On : 9 Sep 2006 17:10
 Operator : SD
 Sample : BFB TUNE CHCK
 Misc : 5mL
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :
 Last Update : Mon Sep 11 10:32:24 2006



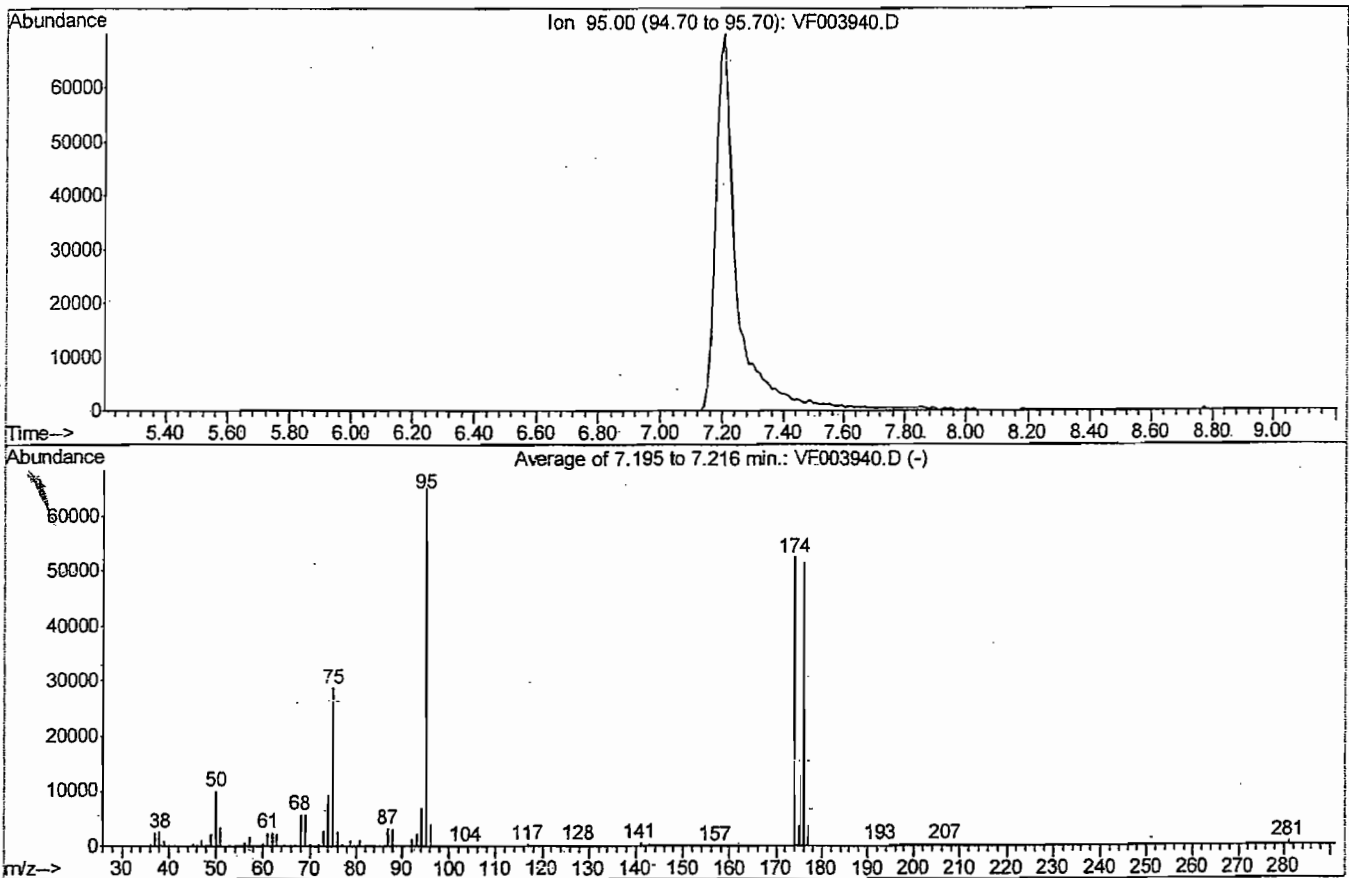
AutoFind: Scans 395, 396, 397; Background Corrected with Scan 387

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	9902	PASS
75	95	30	60	45.9	27352	PASS
95	95	100	100	100.0	59570	PASS
96	95	5	9	6.8	4076	PASS
173	174	0.00	2	0.7	317	PASS
174	95	50	120	74.3	44248	PASS
175	174	5	9	7.8	3445	PASS
176	174	95	101	97.6	43202	PASS
177	176	5	9	6.4	2765	PASS

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003940.D
 Acq On : 11 Sep 2006 11:26
 Operator : SD
 Sample : BFB TUNE CHCK
 Misc : 5mL
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :
 Last Update : Mon Sep 11 10:32:24 2006



AutoFind: Scans 397, 398, 399; Background Corrected with Scan 388

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	9925	PASS
75	95	30	60	44.2	28805	PASS
95	95	100	100	100.0	65109	PASS
96	95	5	9	5.9	3857	PASS
173	174	0.00	2	0.2	99	PASS
174	95	50	120	80.4	52362	PASS
175	174	5	9	7.0	3656	PASS
176	174	95	101	98.2	51416	PASS
177	176	5	9	7.1	3648	PASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: VBF0909W2

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003932.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/9/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		6.6	J
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		50	U
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: VBF0909W2

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003932.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/9/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: VBF0909W2

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003932.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/9/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003932.D
 Acq On : 9 Sep 2006 22:20
 Operator : SD
 Sample : VBF0909W2
 Misc : 5mL
 ALS Vial : 11 Sample Multiplier: 1

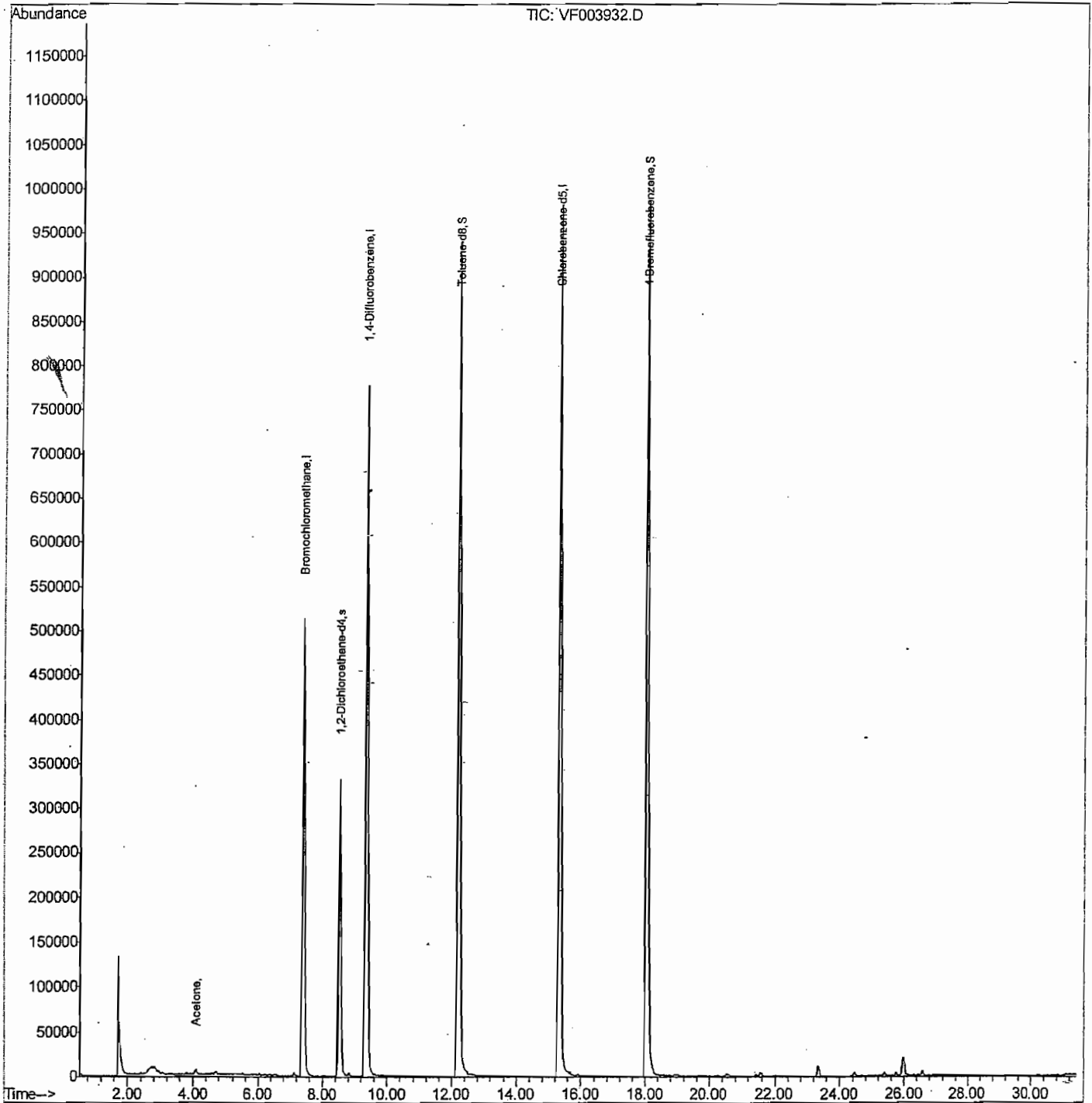
Quant Time: Sep 11 11:35:29 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

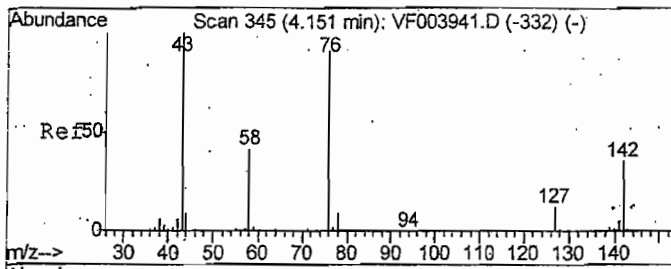
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.40	128	366949	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.36	114	1761482	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1747948	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.54	65	542285	48.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.44%	
40) 4-Bromofluorobenzene	18.04	95	1191835	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
43) Toluene-d8	12.21	98	1896230	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
Target Compounds						
10) Acetone	4.09	43	14228	6.61	ug/l #	86

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

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003932.D
Acq On : 9 Sep 2006 22:20
Operator : SD
Sample : VBF0909W2
Misc : 5mL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 11 11:35:29 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 10:32:24 2006
Response via : Continuing Cal File: T:\HPCHEM1\MSVOA_F\Data\VF090906\VF003927.D

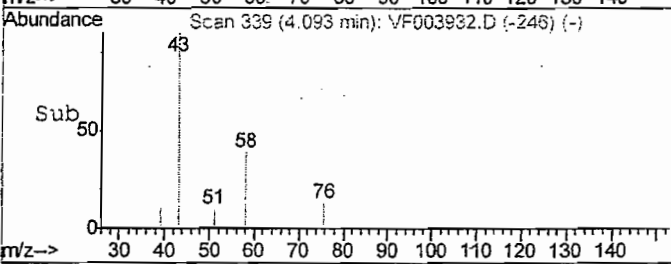
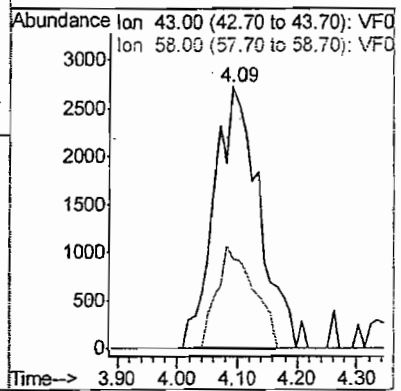
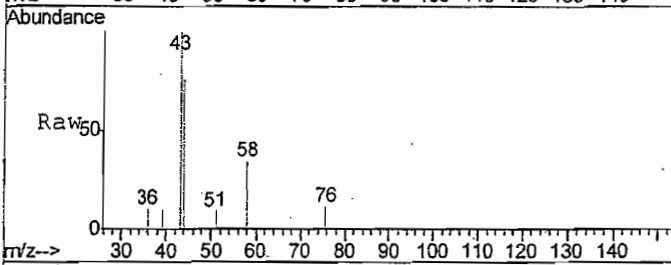




#10
 Acetone
 Concen: 6.61 ug/l
 RT: 4.09 min Scan# 339
 Delta R.T. -0.03 min
 Lab File: VF003932.D
 Acq: 9 Sep 2006 22:20

Tgt Ion: 43 Resp: 14228

Ion	Ratio	Lower	Upper
43	100		
58	32.4	32.8	49.2#



LSC Area Percent Report

Data Path : T:\HPCHEM1\MSVOA_F\DATA\VF090906\
 Data File : VF003932.D
 Acq On : 9 Sep 2006 22:20
 Operator : SD
 Sample : VBE0909W2
 Misc : 5mL
 ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.732	108	114	136	rBV	133862	371157	7.19%	1.580%
2	7.404	641	655	681	rBV	513453	2439700	47.28%	10.384%
3	8.537	751	763	783	rBV	332500	1643406	31.85%	6.994%
4	9.365	829	842	863	rBV	777458	4022781	77.96%	17.121%
5	12.205	1098	1113	1146	rBV	940674	4925364	95.46%	20.963%
6	15.333	1396	1412	1437	rBV	981489	4933546	95.62%	20.998%
7	18.046	1655	1670	1704	rBV	987731	5159736	100.00%	21.960%

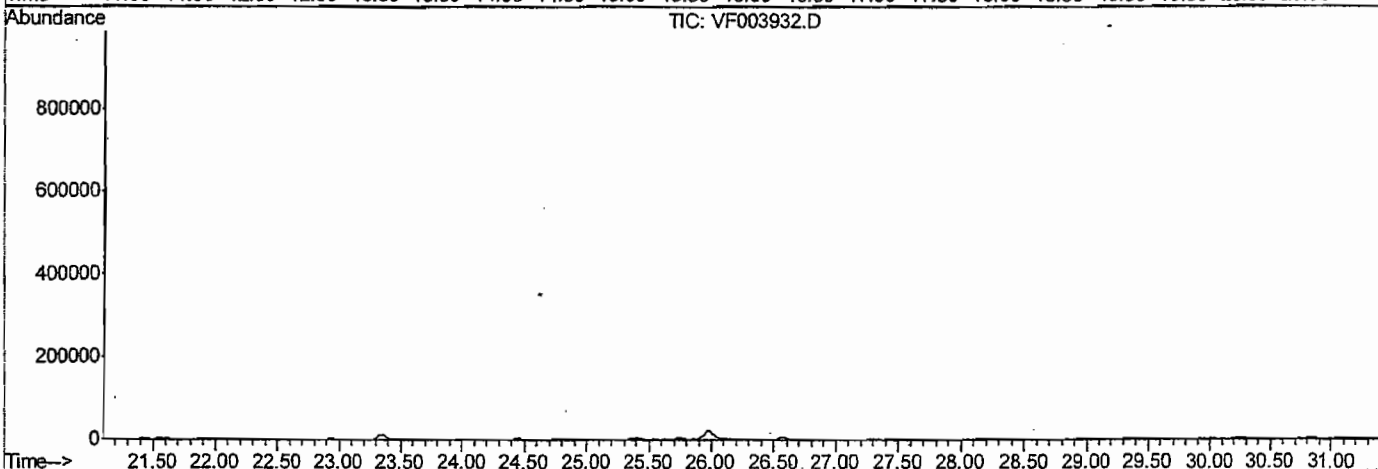
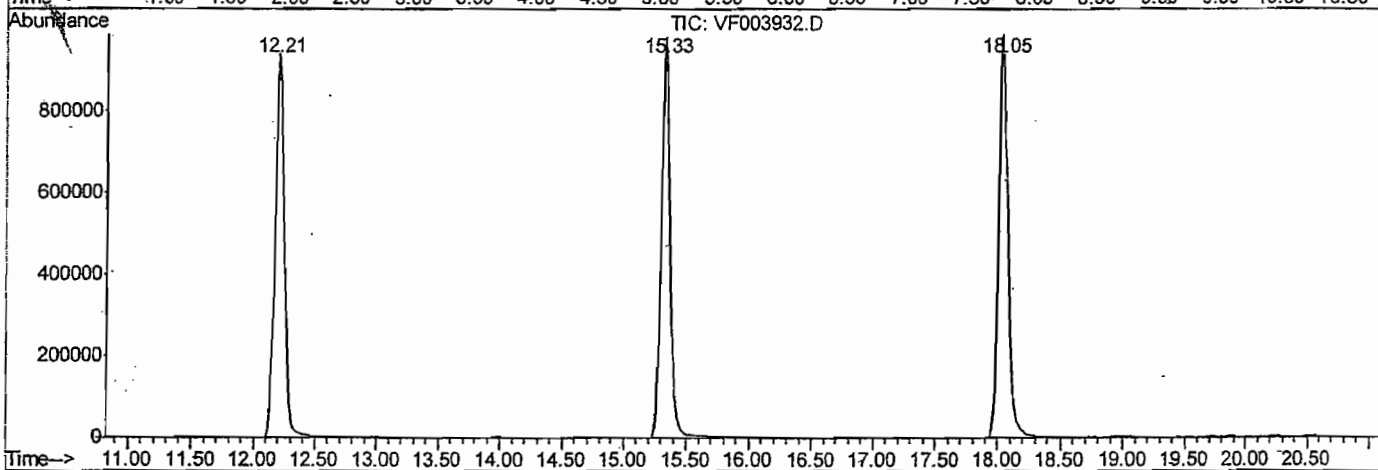
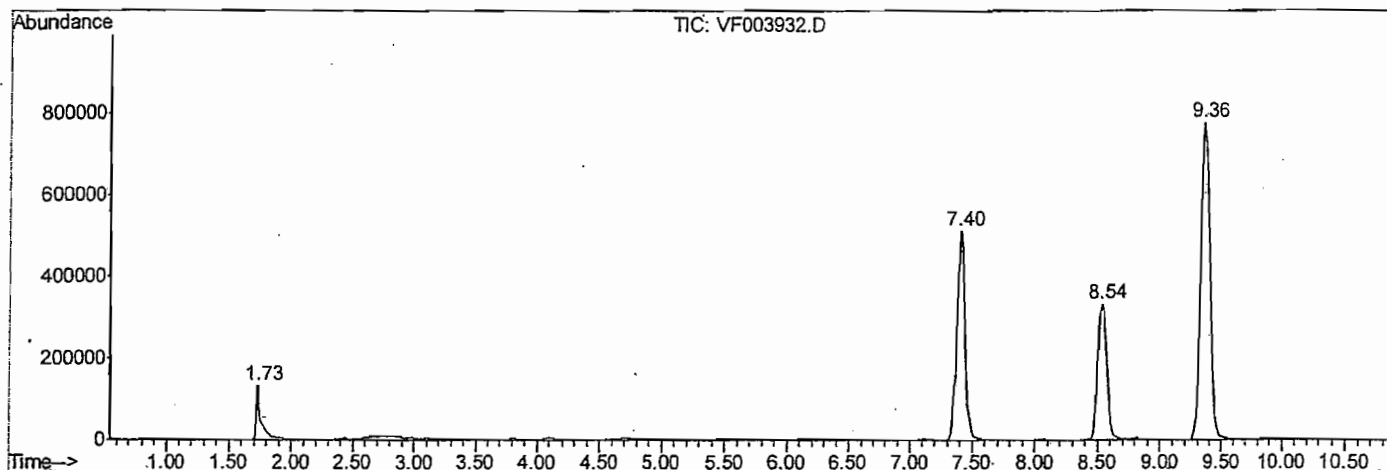
Sum of corrected areas: 23495690

LSC Report - Integrated Chromatogram

Data Path : T:\HPCHEM1\MSVOA_F\DATA\VF090906\
Data File : VF003932.D
Acq On : 9 Sep 2006 22:20
Operator : SD
Sample : VBF0909W2
Misc : 5mL
ALS Vial : 11 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



TentativelibrädegenSefied Compound R&S6itsummary

D8aaaPrah::TT\NREBHEEMIMSSJUAFFRQAAAVYB0000065\
D8aaaFfile::VYB089922DD
AAqgOgn :: 99S8pp20066 222200
Opeator ::SD
Sample ::VEB000002
MAsc ::5mL
AASVaal::111 SampleMhitplcer:11

QaantMehhd::TT\NREBHEEMIMSSJUAFFRQAAAVYB0000065EBFWM
QaantTfile ::

TTCLibrary ::CC\DATA\REBHEEMIMSSJUAFFRQAAAVYB0000065
TTCInneggationPassameess:REBHEEMTPP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--		
					#	RT	Resp Conc

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Matrix (soil/water): WATER Lab Sample ID: VBF0911W2
 Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003943.D
 Level (low/med): _____ Date Received: _____
 % Moisture: not dec. 100 Date Analyzed: 9/11/06
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-35-4	1,1-Dichloroethene		10	U
67-64-1	Acetone		11	J
75-15-0	Carbon disulfide		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
78-93-3	2-Butanone		3.1	J
56-23-5	Carbon Tetrachloride		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
108-10-1	4-Methyl-2-Pentanone		50	U
108-88-3	Toluene		10	U
10061-02-6	t-1,3-Dichloropropene		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
591-78-6	2-Hexanone		50	U
124-48-1	Dibromochloromethane		10	U
127-18-4	Tetrachloroethene		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m/p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: VBF0911W2

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003943.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: VBF0911W2

Sample wt/vol: 5.0 (g/mL) mL Lab File ID: VF003943.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/11/2006

GC Column: RTX624 ID: 0.53 Dilution Factor: 1.0

Soil Extract Volume: _____ Soil Aliquot Volume: _____

Number TICS found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Comments: _____

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003943.D
 Acq On : 11 Sep 2006 13:36
 Operator : SD
 Sample : VBF0911W2
 Misc : 5mL
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 11 15:17:56 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

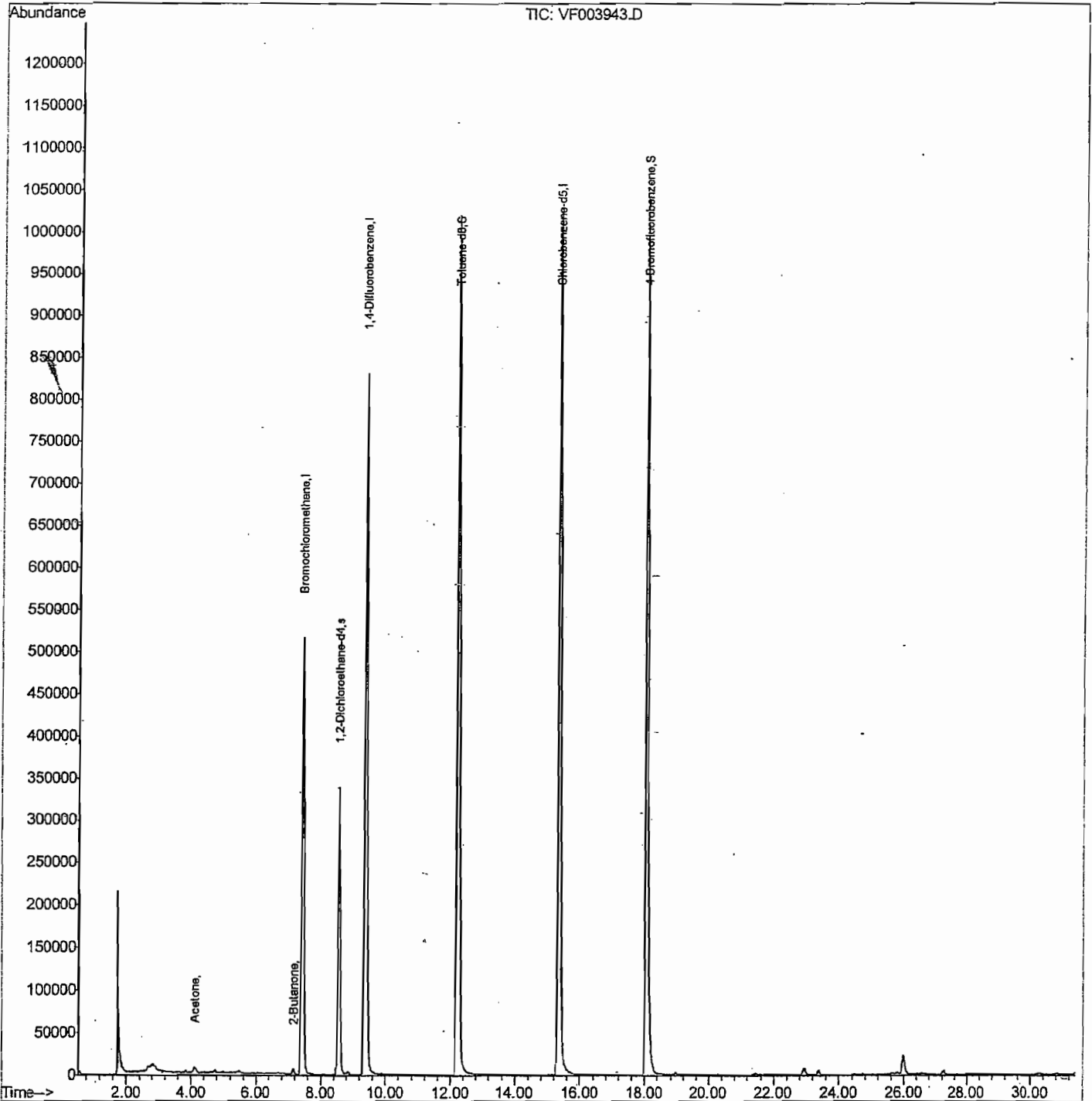
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.44	128	355087	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.39	114	1881428	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.36	117	1772056	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.57	65	522211	51.21	ug/l	0.01
Spiked Amount	50.000		Recovery	=	102.42%	
40) 4-Bromofluorobenzene	18.06	95	1205357	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
43) Toluene-d8	12.23	98	1986880	47.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.08%	
Target Compounds						
10) Acetone	4.12	43	21889	11.17	ug/l	93
22) 2-Butanone	7.14	43	23531	3.06	ug/l #	91

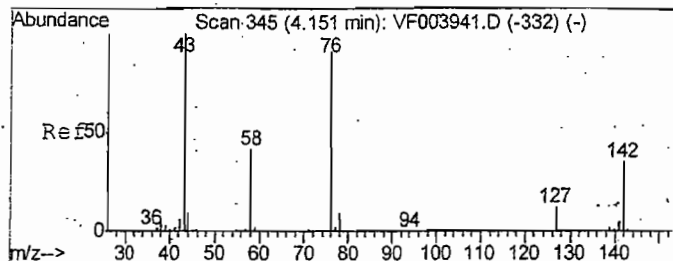
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003943.D
Acq On : 11 Sep 2006 13:36
Operator : SD
Sample : VBF0911W2
Misc : 5mL
ALS Vial : 4 Sample Multiplier: 1

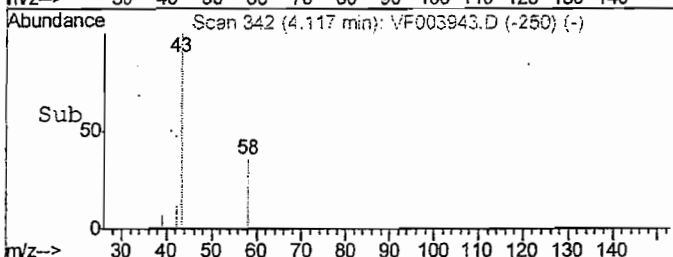
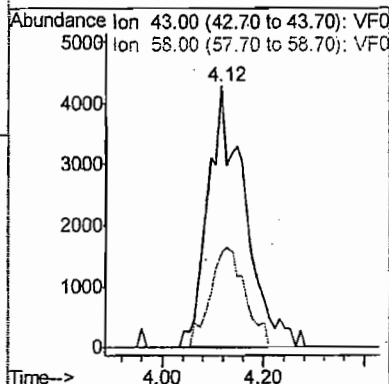
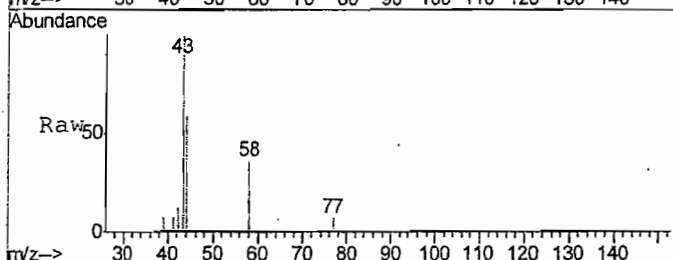
Quant Time: Sep 11 15:17:56 2006
Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :
QLast Update : Mon Sep 11 13:47:15 2006
Response via : Continuing Cal File: T:\HPCHEM1\msvoa_F\Data\VF091106\VF003941.D





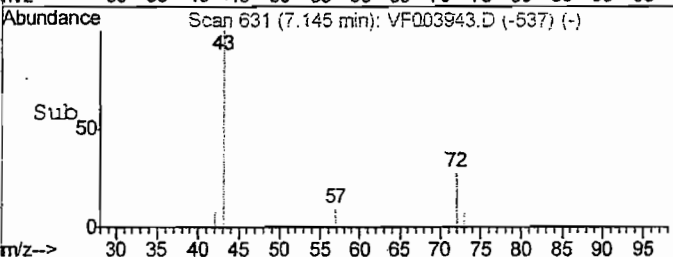
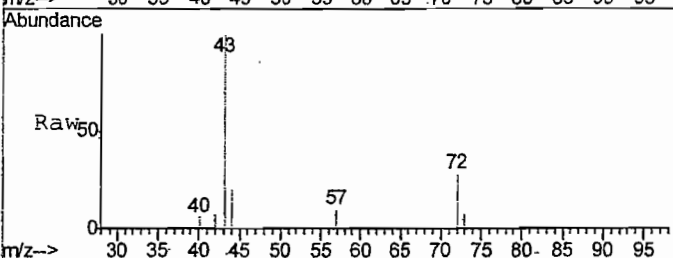
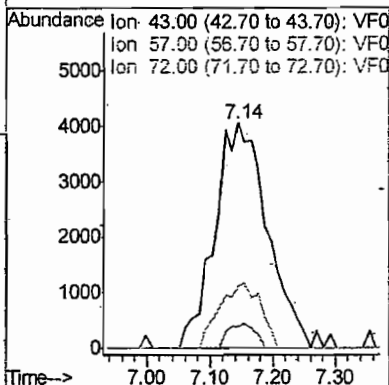
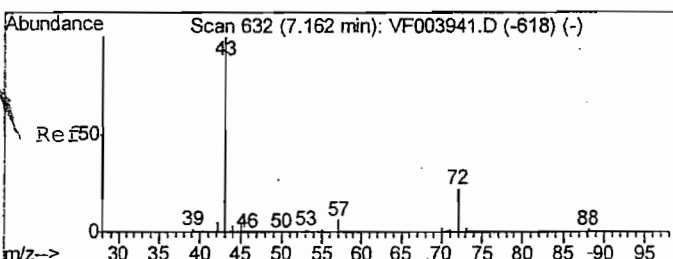
#10
 Acetone
 Concen: 11.17 ug/l
 RT: 4.12 min Scan# 342
 Delta R.T. -0.03 min
 Lab File: VF003943.D
 Acq: 11 Sep 2006 13:36

Tgt Ion: 43 Resp: 21889
 Ion Ratio Lower Upper
 43 100
 58 36.3 32.6 49.0



#22
 2-Butanone
 Concen: 3.06 ug/l
 RT: 7.14 min Scan# 631
 Delta R.T. -0.02 min
 Lab File: VF003943.D
 Acq: 11 Sep 2006 13:36

Tgt Ion: 43 Resp: 23531
 Ion Ratio Lower Upper
 43 100
 57 5.7 4.6 6.8
 72 22.8 12.2 22.7#



LSC Area Percent Report

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
 Data File : VF003943.D
 Acq On : 11 Sep 2006 13:36
 Operator : SD
 Sample : VBF0911W2
 Misc : 5mL
 ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: RTEINT.P
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Title :

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.745	106	116	141	rBV	215938	518287	9.57%	2.100%
2	7.438	646	659	688	rBV	516144	2436535	45.00%	9.874%
3	8.568	755	767	785	rBV	337951	1632247	30.14%	6.615%
4	9.393	833	846	871	rBV	830614	4234241	78.20%	17.160%
5	12.230	1103	1117	1145	rBV	1019408	5291758	97.73%	21.445%
6	15.358	1401	1415	1444	rBV	1023158	5147488	95.06%	20.861%
7	18.064	1659	1673	1705	rBV	1038927	5414904	100.00%	21.944%

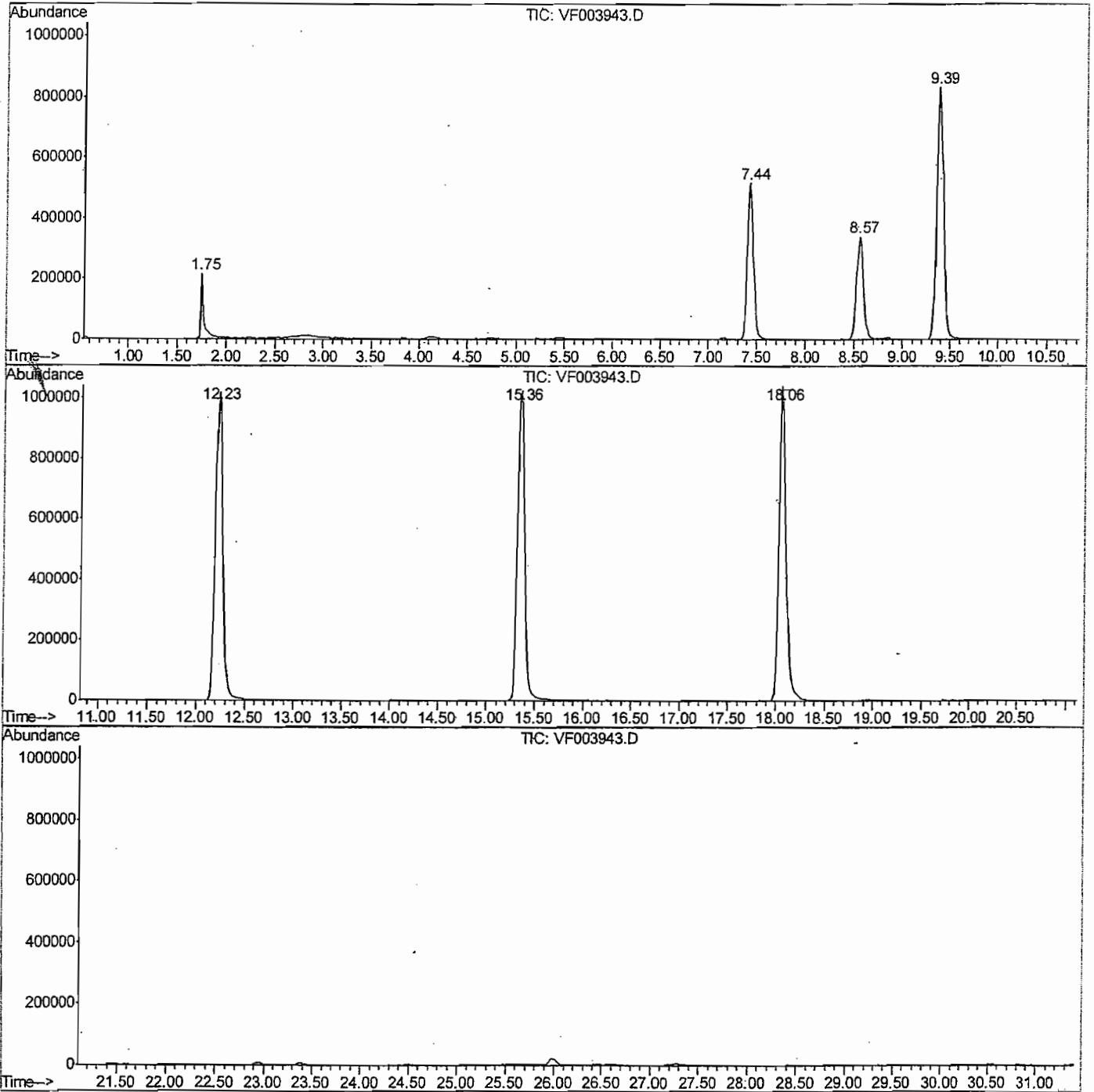
Sum of corrected areas: 24675460

LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF091106\
Data File : VF003943.D
Acq On : 11 Sep 2006 13:36
Operator : SD
Sample : VBF0911W2
Misc : 5mL
ALS Vial : 4 Sample Multiplier: 1

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
Quant Title :

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: RTEINT.P



Tentativälbrädenséäried Compound Räsörtsummary

DäaaaPbahh::ZZ\NRBEEEMIMSSOQAFKDAZAAVFF991066\
DäaaaFFiäe::VFF0899433DD
AäqqOän ::111Säpp20066 133386
Oäpäääör ::SBD
Sämpäe ::VEE991W02
MÄsec ::5ÄÄL
AASSVÄäl.:44 SämpäeMMhifpläer:11

QqantMähhd::TT\NRBEEEMIMSSOQAFKMEERHDDFF9999065BFWMM
QqantTiiäe ::

TTCCLlbbazy ::CC\DAZARRESENSS02LL
TTCIÄnäggaätönnPäzääääääs:REEEÄTTP

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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|--Internal Standard--|

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS01

Lab Name: Chemtech Contract: SHAW03
 Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423
 Matrix (soil/water): WATER Lab Sample ID: BSF0909W1
 Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003938.D
 Level (low/med): _____ Date Received: _____
 % Moisture: not dec. 100 Date Analyzed: 9/10/06
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		19	
75-01-4	Vinyl chloride		17	
74-83-9	Bromomethane		20	
75-00-3	Chloroethane		20	
75-35-4	1,1-Dichloroethene		19	
67-64-1	Acetone		100	B
75-15-0	Carbon disulfide		18	
75-09-2	Methylene Chloride		19	
156-60-5	trans-1,2-Dichloroethene		19	
75-34-3	1,1-Dichloroethane		18	
78-93-3	2-Butanone		95	
56-23-5	Carbon Tetrachloride		18	
156-59-2	cis-1,2-Dichloroethene		18	
67-66-3	Chloroform		18	
71-55-6	1,1,1-Trichloroethane		18	
71-43-2	Benzene		19	
107-06-2	1,2-Dichloroethane		18	
79-01-6	Trichloroethene		18	
78-87-5	1,2-Dichloropropane		18	
75-27-4	Bromodichloromethane		18	
108-10-1	4-Methyl-2-Pentanone		97	
108-88-3	Toluene		18	
10061-02-6	t-1,3-Dichloropropene		17	
10061-01-5	cis-1,3-Dichloropropene		18	
79-00-5	1,1,2-Trichloroethane		18	
591-78-6	2-Hexanone		92	
124-48-1	Dibromochloromethane		17	
127-18-4	Tetrachloroethene		18	
108-90-7	Chlorobenzene		18	
100-41-4	Ethyl Benzene		18	
126777-61-2	m/p-Xylenes		35	
95-47-6	o-Xylene		18	
100-42-5	Styrene		18	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS01

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: BSF0909W1

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003938.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		16	
79-34-5	1,1,2,2-Tetrachloroethane		18	

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003938.D
 Acq On : 10 Sep 2006 2:13
 Operator : SD
 Sample : BSF0909W1
 Misc : 5mL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 11 11:49:40 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.40	128	326271	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.36	114	1637076	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1592031	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
20) 1,2-Dichloroethane-d4	8.53	65	208584	20.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.72%	
40) 4-Bromofluorobenzene	18.03	95	447325	20.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.08%	
43) Toluene-d8	12.21	98	728342	20.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	153340	15.42	ug/l	98
3) Chloromethane	2.16	50	124550	18.80	ug/l	98
4) Vinyl Chloride	2.26	62	143257	16.97	ug/l	99
5) Bromomethane	2.65	94	142685	19.97	ug/l	96
6) Chloroethane	2.77	64	101965	19.72	ug/l	95
7) Trichlorofluoromethane	3.05	101	224475	16.19	ug/l	94
8) 1,1,2-Trichlorotrifluoroet	3.76	101	288475	20.25	ug/l	97
9) 1,1-Dichloroethene	3.82	96	146963	19.05	ug/l	98
10) Acetone	4.09	43	199725	104.31	ug/l	100
11) Carbon Disulfide	4.09	76	432131	18.24	ug/l	99
12) Methyl Acetate	4.56	43	191128	21.64	ug/l	97
13) Methylene Chloride	4.71	84	171090	18.95	ug/l	96
14) trans-1,2-Dichloroethene	5.07	96	175531	18.56	ug/l	99
15) 1,1-Dichloroethane	5.89	63	360913	18.20	ug/l	100
16) cis-1,2-Dichloroethene	6.96	96	193113	18.25	ug/l	100
17) Methyl tert-butyl Ether	5.10	73	527611	19.08	ug/l	99
18) Chloroform	7.58	83	352709	17.98	ug/l	99
19) Cyclohexane	7.70	56	346038	18.82	ug/L	99
22) 2-Butanone	7.12	43	677732	95.49	ug/l	99
23) 1,1,1-Trichloroethane	7.77	97	278186	18.31	ug/l	99
24) Carbon Tetrachloride	7.98	117	267339	17.93	ug/l	99
25) Benzene	8.45	78	665528	18.61	ug/l	100
26) 1,2-Dichloroethane	8.68	62	212978	18.41	ug/l	100
27) Trichloroethene	9.75	130	232338	17.91	ug/l	99
28) Methylcyclohexane	9.93	83	354435	18.71	ug/l	99
29) 1,2-Dichloropropane	10.29	63	268775	18.18	ug/l	99
30) Bromodichloromethane	10.87	83	309387	17.55	ug/l	100
31) t-1,3-Dichloropropene	13.05	75	308078	17.05	ug/l	99
32) cis-1,3-Dichloropropene	11.80	75	365603	17.60	ug/l	99
33) 1,1,2-Trichloroethane	13.40	97	225053	18.22	ug/l	99
34) Dibromochloromethane	14.14	129	297930	16.97	ug/l	100
35) 1,2-Dibromoethane	14.35	107	293854	18.08	ug/l	98
36) Bromoform	17.26	173	236639	16.41	ug/l	100
38) 4-Methyl-2-Pentanone	12.18	43	1266190	96.96	ug/l	98
39) 2-Hexanone	13.97	43	853099	92.23	ug/l	98
41) Tetrachloroethene	13.41	164	229259	18.48	ug/l	99
42) Toluene	12.34	91	758213	18.15	ug/l	98

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003938.D
 Acq On : 10 Sep 2006 2:13
 Operator : SD
 Sample : BSF0909W1
 Misc : 5mL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 11 11:49:40 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

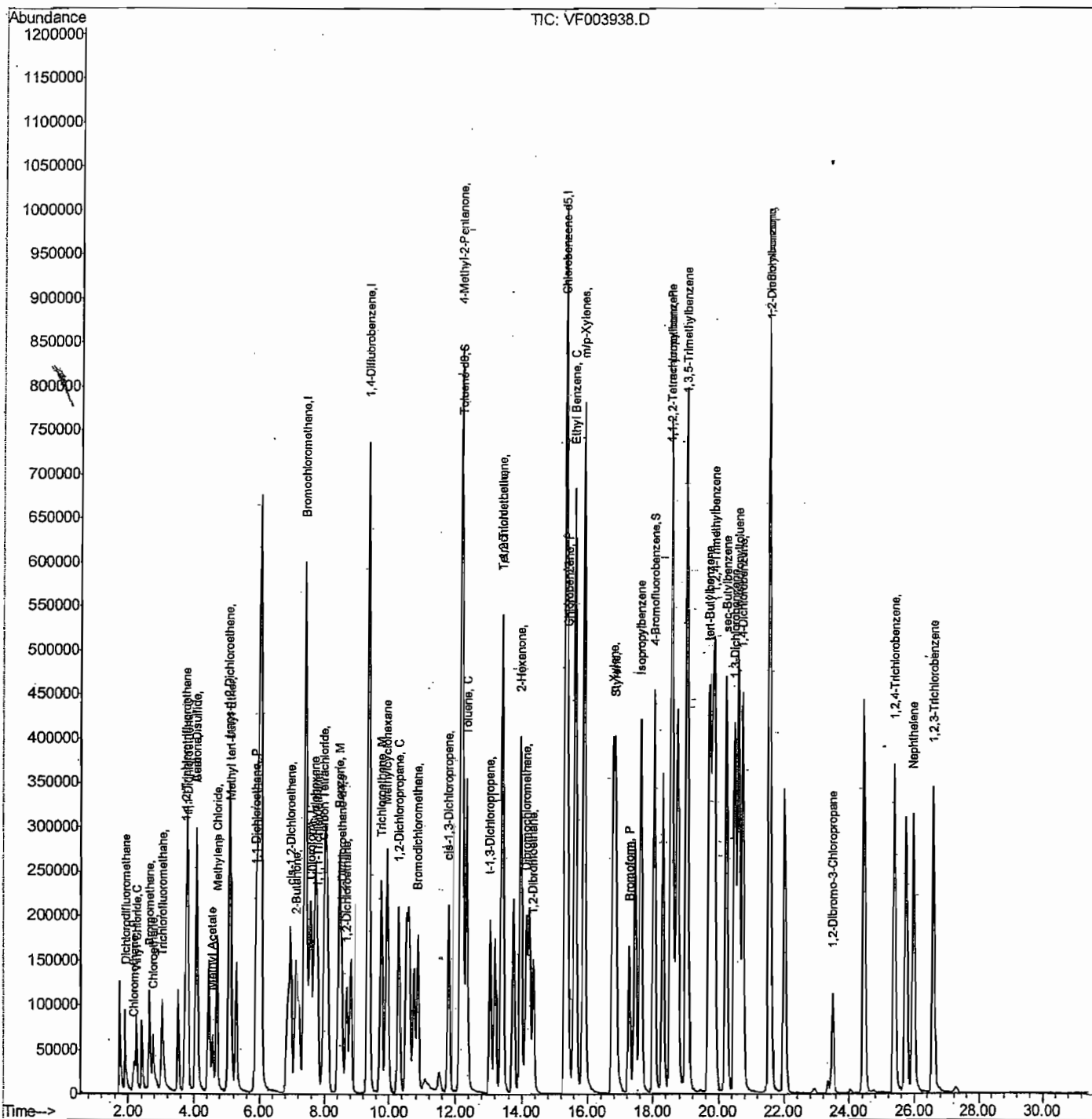
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.40	112	552818	18.28	ug/l	99
45) Ethyl Benzene	15.62	91	985401	17.93	ug/l	98
46) m/p-Xylenes	15.90	91	1449970	34.85	ug/l	100
47) o-Xylene	16.78	91	731442	17.96	ug/l	98
48) Styrene	16.85	104	570739	17.59	ug/l	100
49) Isopropylbenzene	17.61	105	941698	17.92	ug/l	99
50) 1,1,2,2-Tetrachloroethane	18.54	83	427814	18.14	ug/l	98
51) n-propylbenzene	18.57	91	1319146	18.06	ug/l	99
52) 1,3,5-Trimethylbenzene	19.02	105	785479	17.51	ug/l	98
53) tert-Butylbenzene	19.71	119	1059823	16.96	ug/l	98
54) 1,2,4-Trimethylbenzene	19.87	105	787938	17.57	ug/l	98
55) sec-Butylbenzene	20.23	105	1166416	17.65	ug/l	99
56) p-Isopropyltoluene	20.60	119	1014744	17.71	ug/l	99
57) 1,3-Dichlorobenzene	20.49	146	581511	17.77	ug/l	99
58) 1,4-Dichlorobenzene	20.73	146	589672	17.16	ug/l	99
59) n-Butylbenzene	21.56	91	1028970	17.76	ug/l	98
60) 1,2-Dichlorobenzene	21.58	146	571400	17.53	ug/l	99
61) 1,2-Dibromo-3-Chloropropan	23.49	75	81160	17.30	ug/l	93
62) Naphthalene	25.96	128	804338	17.21	ug/l	100
63) 1,2,3-Trichlorobenzene	26.57	180	363080	15.90	ug/l	99
64) 1,2,4-Trichlorobenzene	25.39	180	388834	16.05	ug/l	96

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

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003938.D
 Acq On : 10 Sep 2006 2:13
 Operator : SD
 Sample : BSF0909W1
 Misc : 5mL
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 11 11:49:40 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D



VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS02

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: BSF0909W2

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003939.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		17	
75-01-4	Vinyl chloride		15	
74-83-9	Bromomethane		19	
75-00-3	Chloroethane		16	
75-35-4	1,1-Dichloroethene		14	
67-64-1	Acetone		110	B
75-15-0	Carbon disulfide		14	
75-09-2	Methylene Chloride		19	
156-60-5	trans-1,2-Dichloroethene		16	
75-34-3	1,1-Dichloroethane		17	
78-93-3	2-Butanone		110	
56-23-5	Carbon Tetrachloride		14	
156-59-2	cis-1,2-Dichloroethene		17	
67-66-3	Chloroform		18	
71-55-6	1,1,1-Trichloroethane		15	
71-43-2	Benzene		18	
107-06-2	1,2-Dichloroethane		21	
79-01-6	Trichloroethene		17	
78-87-5	1,2-Dichloropropane		20	
75-27-4	Bromodichloromethane		19	
108-10-1	4-Methyl-2-Pentanone		110	
108-88-3	Toluene		17	
10061-02-6	t-1,3-Dichloropropene		18	
10061-01-5	cis-1,3-Dichloropropene		19	
79-00-5	1,1,2-Trichloroethane		20	
591-78-6	2-Hexanone		100	
124-48-1	Dibromochloromethane		19	
127-18-4	Tetrachloroethene		15	
108-90-7	Chlorobenzene		19	
100-41-4	Ethyl Benzene		17	
126777-61-2	m/p-Xylenes		33	
95-47-6	o-Xylene		18	
100-42-5	Styrene		18	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS02

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: BSF0909W2

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003939.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/10/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		19	
79-34-5	1,1,2,2-Tetrachloroethane		20	

Quantitation Report (QT Reviewed)

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003939.D
 Acq On : 10 Sep 2006 2:52
 Operator : SD
 Sample : BSF0909W2
 Misc : 5mL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 11:51:06 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.40	128	321819	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.37	114	1539692	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.33	117	1537961	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
20) 1,2-Dichloroethane-d4	8.53	65	192912	19.56	ug/l	0.00
Spiked Amount				50.000		
				Recovery =		39.12%
40) 4-Bromofluorobenzene	18.04	95	414609	19.23	ug/l	0.00
Spiked Amount				50.000		
				Recovery =		38.46%
43) Toluene-d8	12.20	98	639165	18.32	ug/l	0.00
Spiked Amount				50.000		
				Recovery =		36.64%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	150950	15.39	ug/l	99
3) Chloromethane	2.18	50	109267	16.72	ug/l	96
4) Vinyl Chloride	2.25	62	126150	15.15	ug/l	99
5) Bromomethane	2.64	94	131308	18.63	ug/l	96
6) Chloroethane	2.77	64	81929	16.06	ug/l	94
7) Trichlorofluoromethane	3.04	101	220583	16.13	ug/l	97
8) 1,1,2-Trichlorotrifluoroet	3.77	101	190250	13.54	ug/l	97
9) 1,1-Dichloroethene	3.82	96	109868	14.44	ug/l	96
10) Acetone	4.08	43	205836	108.99	ug/l	98
11) Carbon Disulfide	4.09	76	319698	13.68	ug/l	99
12) Methyl Acetate	4.56	43	192130	22.05	ug/l	98
13) Methylene Chloride	4.71	84	173101	19.44	ug/l	97
14) trans-1,2-Dichloroethene	5.08	96	149558	16.03	ug/l	99
15) 1,1-Dichloroethane	5.90	63	339659	17.37	ug/l	100
16) cis-1,2-Dichloroethene	6.96	96	181378	17.38	ug/l	98
17) Methyl tert-butyl Ether	5.10	73	486573	17.84	ug/l	99
18) Chloroform	7.57	83	343833	17.77	ug/l	95
19) Cyclohexane	7.70	56	233100	12.85	ug/L	100
22) 2-Butanone	7.13	43	717491	107.49	ug/l	99
23) 1,1,1-Trichloroethane	7.77	97	214936	15.04	ug/l	98
24) Carbon Tetrachloride	7.99	117	199999	14.26	ug/l	98
25) Benzene	8.45	78	611553	18.19	ug/l	100
26) 1,2-Dichloroethane	8.68	62	224358	20.62	ug/l	99
27) Trichloroethene	9.74	130	207084	16.97	ug/l	99
28) Methylcyclohexane	9.93	83	235600	13.22	ug/l	99
29) 1,2-Dichloropropane	10.29	63	275116	19.79	ug/l	100
30) Bromodichloromethane	10.87	83	315980	19.05	ug/l	99
31) t-1,3-Dichloropropene	13.04	75	314033	18.48	ug/l	98
32) cis-1,3-Dichloropropene	11.79	75	366393	18.75	ug/l	100
33) 1,1,2-Trichloroethane	13.40	97	233164	20.07	ug/l	99
34) Dibromochloromethane	14.14	129	311311	18.85	ug/l	99
35) 1,2-Dibromoethane	14.35	107	305939	20.02	ug/l	100
36) Bromoform	17.26	173	253991	18.72	ug/l	99
38) 4-Methyl-2-Pentanone	12.17	43	1337261	106.00	ug/l	95
39) 2-Hexanone	13.96	43	910705	101.92	ug/l	99
41) Tetrachloroethene	13.40	164	184426	15.39	ug/l	99
42) Toluene	12.34	91	704865	17.47	ug/l	100

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003939.D
 Acq On : 10 Sep 2006 2:52
 Operator : SD
 Sample : BSF0909W2
 Misc : 5mL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 11:51:06 2006

Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M

Quant Title :

QLast Update : Mon Sep 11 10:32:24 2006

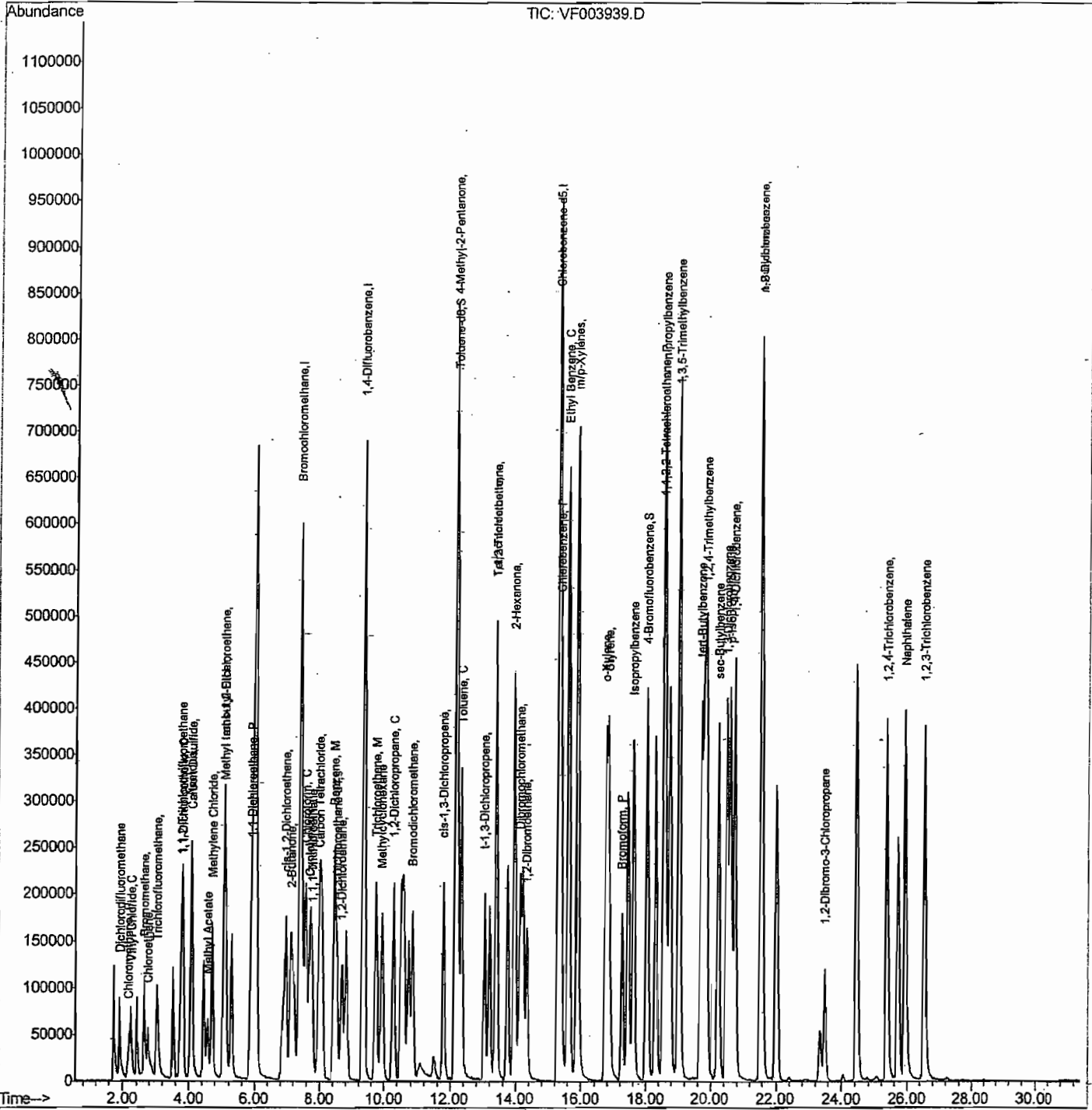
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.39	112	542833	18.58	ug/l	99
45) Ethyl Benzene	15.62	91	908503	17.11	ug/l	98
46) m/p-Xylenes	15.90	91	1310594	32.61	ug/l	100
47) o-Xylene	16.78	91	704065	17.89	ug/l	100
48) Styrene	16.85	104	563886	17.99	ug/l	100
49) Isopropylbenzene	17.61	105	826020	16.27	ug/l	98
50) 1,1,2,2-Tetrachloroethane	18.54	83	454741	19.96	ug/l	98
51) n-propylbenzene	18.57	91	1124712	15.94	ug/l	98
52) 1,3,5-Trimethylbenzene	19.02	105	712751	16.45	ug/l	99
53) tert-Butylbenzene	19.71	119	976459	16.17	ug/l	100
54) 1,2,4-Trimethylbenzene	19.86	105	753078	17.38	ug/l	100
55) sec-Butylbenzene	20.23	105	947121	14.84	ug/l	100
56) p-Isopropyltoluene	20.61	119	839810	15.18	ug/l	98
57) 1,3-Dichlorobenzene	20.49	146	572260	18.10	ug/l	99
58) 1,4-Dichlorobenzene	20.73	146	597995	18.01	ug/l	99
59) n-Butylbenzene	21.56	91	842065	15.04	ug/l	99
60) 1,2-Dichlorobenzene	21.58	146	586217	18.62	ug/l	98
61) 1,2-Dibromo-3-Chloropropan	23.50	75	90900	20.06	ug/l	94
62) Naphthalene	25.95	128	892242	19.76	ug/l	100
63) 1,2,3-Trichlorobenzene	26.54	180	401119	18.19	ug/l	98
64) 1,2,4-Trichlorobenzene	25.38	180	402551	17.20	ug/l	98

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

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF090906\
 Data File : VF003939.D
 Acq On : 10 Sep 2006 2:52
 Operator : SD
 Sample : BSF0909W2
 Misc : 5mL
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 11 11:51:06 2006
 Quant Method : T:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 10:32:24 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF090906\VF003927.D



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS03

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: BSF0911W2

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003953.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		22	
75-01-4	Vinyl chloride		20	
74-83-9	Bromomethane		20	
75-00-3	Chloroethane		23	
75-35-4	1,1-Dichloroethene		20	
67-64-1	Acetone		110	B
75-15-0	Carbon disulfide		19	
75-09-2	Methylene Chloride		22	
156-60-5	trans-1,2-Dichloroethene		20	
75-34-3	1,1-Dichloroethane		21	
78-93-3	2-Butanone		110	B
56-23-5	Carbon Tetrachloride		19	
156-59-2	cis-1,2-Dichloroethene		21	
67-66-3	Chloroform		22	
71-55-6	1,1,1-Trichloroethane		20	
71-43-2	Benzene		20	
107-06-2	1,2-Dichloroethane		21	
79-01-6	Trichloroethene		19	
78-87-5	1,2-Dichloropropane		21	
75-27-4	Bromodichloromethane		19	
108-10-1	4-Methyl-2-Pentanone		100	
108-88-3	Toluene		20	
10061-02-6	t-1,3-Dichloropropene		20	
10061-01-5	cis-1,3-Dichloropropene		20	
79-00-5	1,1,2-Trichloroethane		20	
591-78-6	2-Hexanone		110	
124-48-1	Dibromochloromethane		19	
127-18-4	Tetrachloroethene		19	
108-90-7	Chlorobenzene		21	
100-41-4	Ethyl Benzene		20	
126777-61-2	m/p-Xylenes		39	
95-47-6	o-Xylene		20	
100-42-5	Styrene		21	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS03

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: BSF0911W2

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003953.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		18	
79-34-5	1,1,2,2-Tetrachloroethane		20	

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003953.D
 Acq On : 11 Sep 2006 20:07
 Operator : SD
 Sample : BSF0911W2
 Misc : 5mL
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 00:51:55 2006
 Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.43	128	305487	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.39	114	1591303	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.35	117	1492206	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
20) 1,2-Dichloroethane-d4	8.56	65	484630	55.24	ug/l	0.00
Spiked Amount						
						Recovery = 110.48%
40) 4-Bromofluorobenzene	18.06	95	1080611	52.08	ug/l	0.00
Spiked Amount						Recovery = 104.16%
43) Toluene-d8	12.24	98	1706275	48.48	ug/l	0.01
Spiked Amount						Recovery = 96.96%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.92	85	187462	19.82	ug/l	100
3) Chloromethane	2.19	50	132033	21.67	ug/l	99
4) Vinyl Chloride	2.27	62	157540	19.73	ug/l	99
5) Bromomethane	2.66	94	126620	20.15	ug/l	97
6) Chloroethane	2.78	64	102894	22.92	ug/l	92
7) Trichlorofluoromethane	3.06	101	258434	19.09	ug/l	97
8) 1,1,2-Trichlorotrifluoroet	3.78	101	273517	19.22	ug/l	97
9) 1,1-Dichloroethene	3.83	96	148052	20.38	ug/l	99
10) Acetone	4.11	43	188963	112.05	ug/l	96
11) Carbon Disulfide	4.11	76	429777	18.63	ug/l	100
12) Methyl Acetate	4.59	43	178416	21.95	ug/l	95
13) Methylene Chloride	4.73	84	182603	22.03	ug/l	95
14) trans-1,2-Dichloroethene	5.10	96	180293	20.26	ug/l	98
15) 1,1-Dichloroethane	5.92	63	363920	20.52	ug/l	99
16) cis-1,2-Dichloroethene	6.99	96	202923	20.75	ug/l	96
17) Methyl tert-butyl Ether	5.12	73	535717	21.06	ug/l	98
18) Chloroform	7.60	83	370784	21.56	ug/l	100
19) Cyclohexane	7.72	56	333726	20.03	ug/L	96
22) 2-Butanone	7.15	43	688158	105.75	ug/l	98
23) 1,1,1-Trichloroethane	7.80	97	296405	19.80	ug/l	99
24) Carbon Tetrachloride	8.01	117	281868	18.96	ug/l	99
25) Benzene	8.49	78	681041	19.83	ug/l	100
26) 1,2-Dichloroethane	8.71	62	219967	20.92	ug/l	99
27) Trichloroethene	9.78	130	236554	18.95	ug/l	95
28) Methylcyclohexane	9.96	83	358075	18.96	ug/l	99
29) 1,2-Dichloropropane	10.32	63	274755	20.84	ug/l	98
30) Bromodichloromethane	10.89	83	319591	19.42	ug/l	98
31) t-1,3-Dichloropropene	13.07	75	323692	19.74	ug/l	99
32) cis-1,3-Dichloropropene	11.82	75	379143	19.50	ug/l	98
33) 1,1,2-Trichloroethane	13.43	97	236487	20.46	ug/l	97
34) Dibromochloromethane	14.16	129	313667	19.32	ug/l	99
35) 1,2-Dibromoethane	14.38	107	300715	20.14	ug/l	99
36) Bromoform	17.29	173	247450	18.31	ug/l	99
38) 4-Methyl-2-Pentanone	12.20	43	1274933	103.51	ug/l #	60
39) 2-Hexanone	13.99	43	872787	105.72	ug/l	97
41) Tetrachloroethene	13.43	164	235284	18.90	ug/l	99
42) Toluene	12.37	91	784584	20.43	ug/l	99

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003953.D
 Acq On : 11 Sep 2006 20:07
 Operator : SD
 Sample : BSF0911W2
 Misc : 5mL
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 00:51:55 2006

Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M

Quant Title :

QLast Update : Mon Sep 11 13:47:15 2006

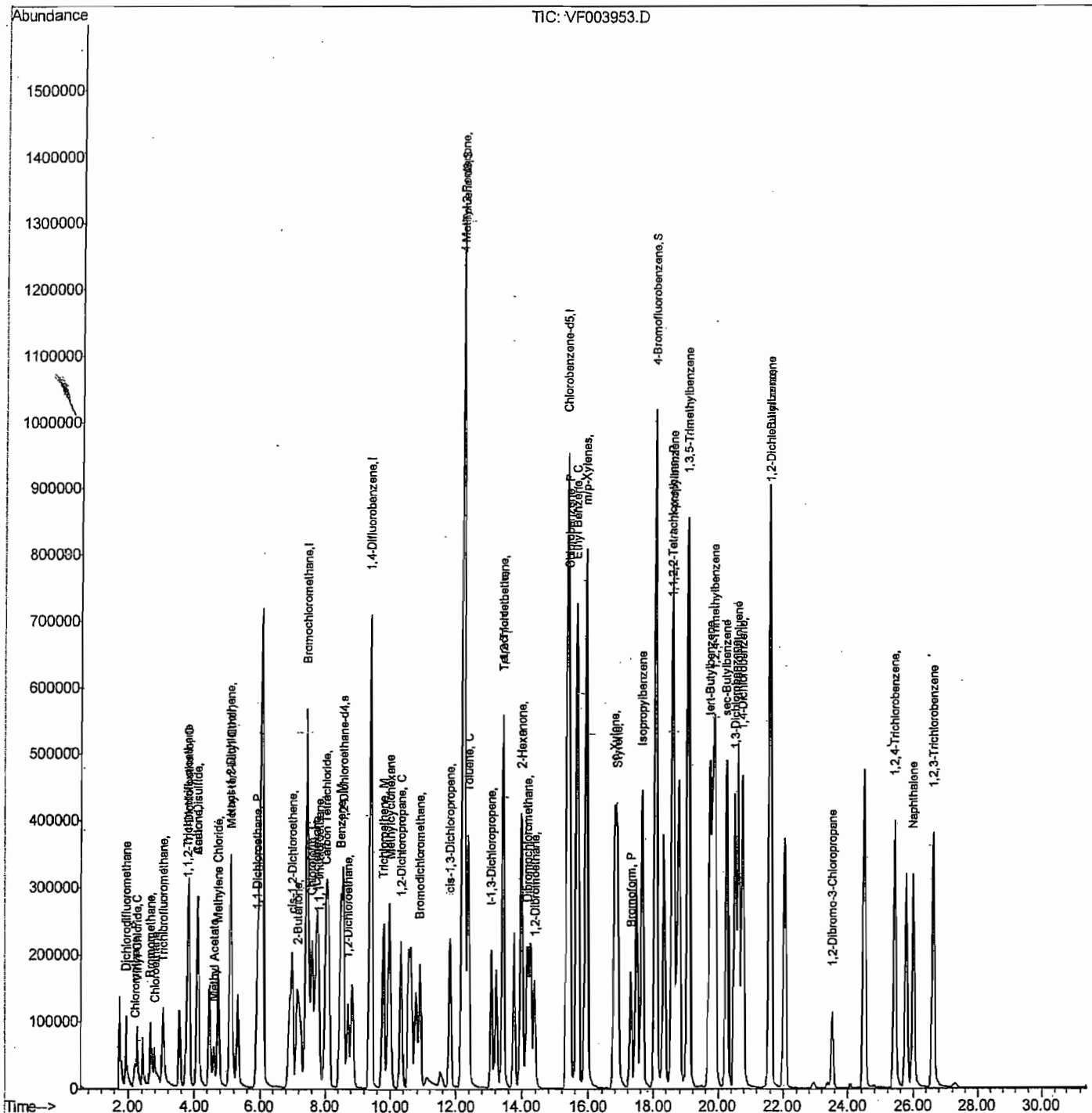
Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.41	112	595743	20.93	ug/l	99
45) Ethyl Benzene	15.64	91	1009189	19.98	ug/l	100
46) m/p-Xylenes	15.92	91	1467990	39.35	ug/l	99
47) o-Xylene	16.81	91	741611	19.78	ug/l	98
48) Styrene	16.88	104	607730	20.74	ug/l	99
49) Isopropylbenzene	17.64	105	1006719	20.03	ug/l	98
50) 1,1,2,2-Tetrachloroethane	18.57	83	425817	20.28	ug/l	100
51) n-propylbenzene	18.59	91	1311763	19.66	ug/l	99
52) 1,3,5-Trimethylbenzene	19.05	105	857923	20.53	ug/l	98
53) tert-Butylbenzene	19.74	119	1141828	19.31	ug/l	99
54) 1,2,4-Trimethylbenzene	19.89	105	863467	20.63	ug/l	96
55) sec-Butylbenzene	20.25	105	1205132	19.24	ug/l	98
56) p-Isopropyltoluene	20.63	119	1057083	19.27	ug/l	99
57) 1,3-Dichlorobenzene	20.52	146	578700	18.95	ug/l	97
58) 1,4-Dichlorobenzene	20.76	146	612609	19.02	ug/l	96
59) n-Butylbenzene	21.59	91	993243	18.94	ug/l	99
60) 1,2-Dichlorobenzene	21.60	146	589011	19.61	ug/l	99
61) 1,2-Dibromo-3-Chloropropan	23.53	75	79489	18.92	ug/l	95
62) Naphthalene	26.00	128	814208	18.88	ug/l	100
63) 1,2,3-Trichlorobenzene	26.61	180	405995	18.89	ug/l	98
64) 1,2,4-Trichlorobenzene	25.42	180	427112	18.51	ug/l	99

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

Data Path : F:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003953.D
 Acq On : 11 Sep 2006 20:07
 Operator : SD
 Sample : BSF0911W2
 Misc : 5mL
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 00:51:55 2006
 Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS04

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: BSF0911W3

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003954.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
74-87-3	Chloromethane		21	
75-01-4	Vinyl chloride		19	
74-83-9	Bromomethane		21	
75-00-3	Chloroethane		21	
75-35-4	1,1-Dichloroethene		18	
67-64-1	Acetone		110	B
75-15-0	Carbon disulfide		17	
75-09-2	Methylene Chloride		20	
156-60-5	trans-1,2-Dichloroethene		18	
75-34-3	1,1-Dichloroethane		19	
78-93-3	2-Butanone		100	B
56-23-5	Carbon Tetrachloride		17	
156-59-2	cis-1,2-Dichloroethene		19	
67-66-3	Chloroform		19	
71-55-6	1,1,1-Trichloroethane		18	
71-43-2	Benzene		19	
107-06-2	1,2-Dichloroethane		20	
79-01-6	Trichloroethene		17	
78-87-5	1,2-Dichloropropane		20	
75-27-4	Bromodichloromethane		19	
108-10-1	4-Methyl-2-Pentanone		100	
108-88-3	Toluene		19	
10061-02-6	t-1,3-Dichloropropene		19	
10061-01-5	cis-1,3-Dichloropropene		18	
79-00-5	1,1,2-Trichloroethane		19	
591-78-6	2-Hexanone		100	
124-48-1	Dibromochloromethane		18	
127-18-4	Tetrachloroethene		17	
108-90-7	Chlorobenzene		20	
100-41-4	Ethyl Benzene		19	
126777-61-2	m/p-Xylenes		38	
95-47-6	o-Xylene		19	
100-42-5	Styrene		19	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS04

Lab Name: Chemtech Contract: SHAW03

Lab Code: CHEM Case No.: X4423 SAS No.: X4423 SDG No.: X4423

Matrix (soil/water): WATER Lab Sample ID: BSF0911W3

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VF003954.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 9/11/06

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-25-2	Bromoform		18	
79-34-5	1,1,2,2-Tetrachloroethane		20	

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003954.D
 Acq On : 11 Sep 2006 20:46
 Operator : SD
 Sample : BSF0911W3
 Misc : 5mL
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 00:53:32 2006
 Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.44	128	301705	50.00	ug/l	0.00
21) 1,4-Difluorobenzene	9.39	114	1511750	50.00	ug/l	0.00
37) Chlorobenzene-d5	15.36	117	1423183	50.00	ug/l	0.00
System Monitoring Compounds						
20) 1,2-Dichloroethane-d4	8.56	65	460710	53.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.34%	
40) 4-Bromofluorobenzene	18.06	95	1047295	52.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.84%	
43) Toluene-d8	12.24	98	1653679	49.26	ug/l	0.01
Spiked Amount	50.000		Recovery	=	98.52%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.92	85	170370	18.24	ug/l	99
3) Chloromethane	2.19	50	124301	20.66	ug/l	98
4) Vinyl Chloride	2.27	62	147941	18.76	ug/l	98
5) Bromomethane	2.66	94	127740	20.58	ug/l	97
6) Chloroethane	2.78	64	94460	21.30	ug/l	95
7) Trichlorofluoromethane	3.05	101	230901	17.27	ug/l	90
8) 1,1,2-Trichlorotrifluoroet	3.79	101	235083	16.72	ug/l	99
9) 1,1-Dichloroethene	3.84	96	129123	18.00	ug/l	97
10) Acetone	4.12	43	178377	107.10	ug/l	98
11) Carbon Disulfide	4.11	76	385131	16.90	ug/l	99
12) Methyl Acetate	4.60	43	172242	21.45	ug/l	96
13) Methylene Chloride	4.73	84	159997	19.54	ug/l	94
14) trans-1,2-Dichloroethene	5.10	96	158778	18.07	ug/l	98
15) 1,1-Dichloroethane	5.92	63	331174	18.91	ug/l	99
16) cis-1,2-Dichloroethene	6.99	96	185150	19.17	ug/l	98
17) Methyl tert-butyl Ether	5.13	73	482806	19.22	ug/l	98
18) Chloroform	7.61	83	318330	18.75	ug/l	99
19) Cyclohexane	7.72	56	297359	18.08	ug/L	95
22) 2-Butanone	7.16	43	643467	104.09	ug/l	98
23) 1,1,1-Trichloroethane	7.81	97	253916	17.85	ug/l	100
24) Carbon Tetrachloride	8.02	117	244154	17.29	ug/l	100
25) Benzene	8.49	78	612741	18.78	ug/l	100
26) 1,2-Dichloroethane	8.72	62	203051	20.33	ug/l	99
27) Trichloroethene	9.78	130	207400	17.49	ug/l	94
28) Methylcyclohexane	9.96	83	307914	17.16	ug/l	99
29) 1,2-Dichloropropane	10.31	63	247051	19.72	ug/l	99
30) Bromodichloromethane	10.88	83	290370	18.57	ug/l	99
31) t-1,3-Dichloropropene	13.06	75	292987	18.80	ug/l	100
32) cis-1,3-Dichloropropene	11.83	75	337662	18.28	ug/l	95
33) 1,1,2-Trichloroethane	13.42	97	213604	19.45	ug/l	99
34) Dibromochloromethane	14.17	129	283678	18.39	ug/l	99
35) 1,2-Dibromoethane	14.37	107	275331	19.41	ug/l	100
36) Bromoform	17.29	173	226238	17.63	ug/l	99
38) 4-Methyl-2-Pentanone	12.20	43	1207987	102.83	ug/l #	58
39) 2-Hexanone	13.99	43	814253	103.41	ug/l	97
41) Tetrachloroethene	13.43	164	203370	17.13	ug/l	98
42) Toluene	12.36	91	690197	18.84	ug/l	98

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003954.D
 Acq On : 11 Sep 2006 20:46
 Operator : SD
 Sample : BSF0911W3
 Misc : 5mL
 ALS Vial : 15 Sample Multiplier: 1

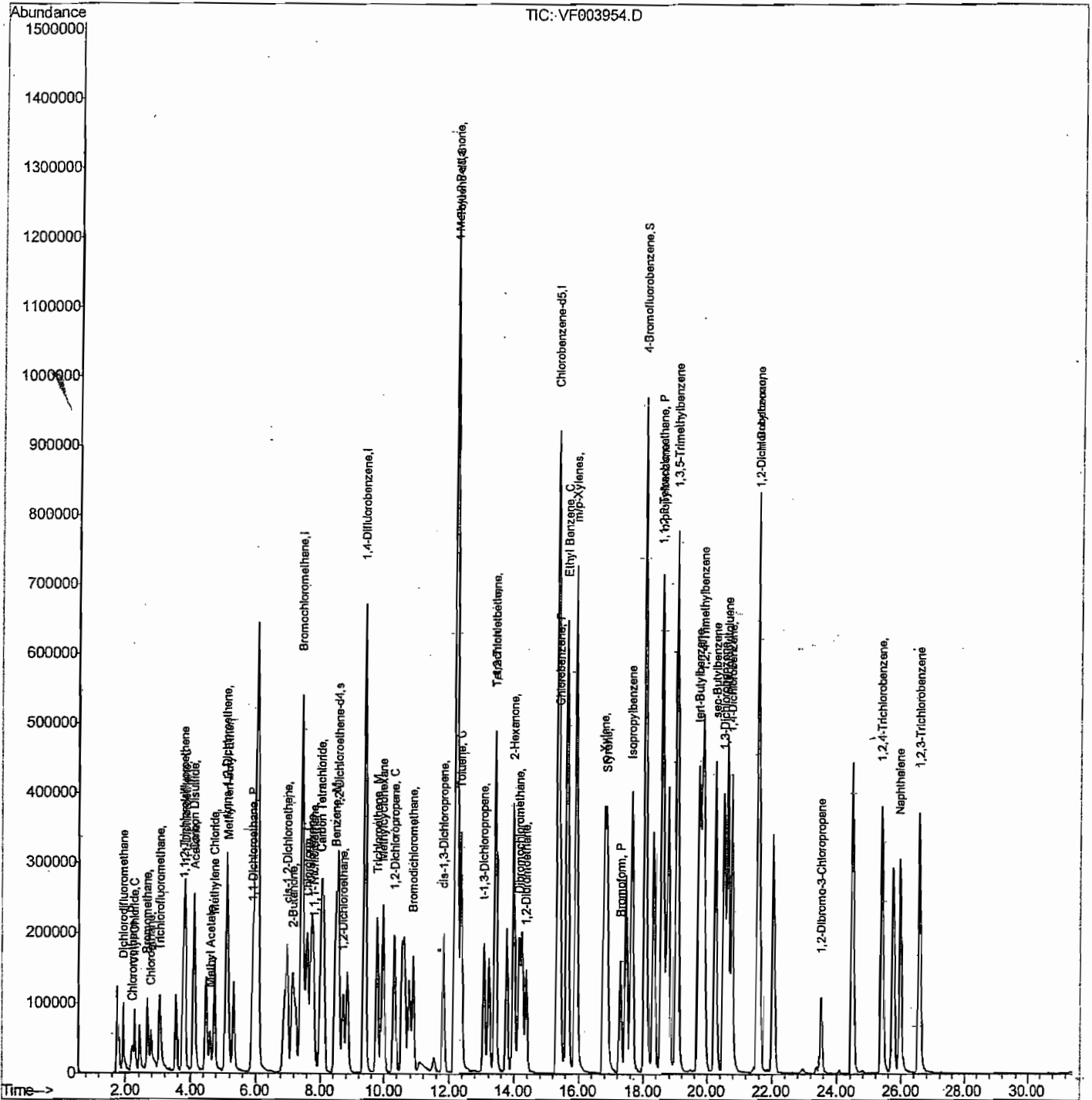
Quant Time: Sep 12 00:53:32 2006
 Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Chlorobenzene	15.42	112	542213	19.97	ug/l	99
45) Ethyl Benzene	15.64	91	901129	18.70	ug/l	100
46) m/p-Xylenes	15.92	91	1359893	38.22	ug/l	99
47) o-Xylene	16.80	91	686724	19.21	ug/l	99
48) Styrene	16.88	104	540983	19.36	ug/l	99
49) Isopropylbenzene	17.63	105	911666	19.02	ug/l	98
50) 1,1,2,2-Tetrachloroethane	18.57	83	398042	19.88	ug/l	99
51) n-propylbenzene	18.59	91	1193367	18.75	ug/l	98
52) 1,3,5-Trimethylbenzene	19.05	105	778818	19.54	ug/l	97
53) tert-Butylbenzene	19.74	119	1040616	18.45	ug/l	100
54) 1,2,4-Trimethylbenzene	19.89	105	801649	20.09	ug/l	95
55) sec-Butylbenzene	20.26	105	1110205	18.58	ug/l	98
56) p-Isopropyltoluene	20.63	119	959111	18.33	ug/l	99
57) 1,3-Dichlorobenzene	20.52	146	532154	18.27	ug/l	96
58) 1,4-Dichlorobenzene	20.76	146	573710	18.67	ug/l	96
59) n-Butylbenzene	21.59	91	938785	18.77	ug/l	99
60) 1,2-Dichlorobenzene	21.61	146	543242	18.96	ug/l	98
61) 1,2-Dibromo-3-Chloropropan	23.53	75	73654	18.38	ug/l	97
62) Naphthalene	25.97	128	770716	18.74	ug/l	100
63) 1,2,3-Trichlorobenzene	26.57	180	389909	19.03	ug/l	99
64) 1,2,4-Trichlorobenzene	25.40	180	405038	18.40	ug/l	99

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

Data Path : T:\HPCHEM1\Msvoa_F\Data\VF091106\
 Data File : VF003954.D
 Acq On : 11 Sep 2006 20:46
 Operator : SD
 Sample : BSF0911W3
 Misc : 5mL
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Quant Time: Sep 12 00:53:32 2006
 Quant Method : X:\HPCHEM1\MSVOA_F\METHOD\F090906LPW.M
 Quant Title :
 QLast Update : Mon Sep 11 13:47:15 2006
 Response via : Continuing Cal File: T:\HPCHEM1\Msvoa_F\Data\VF091106\VF003941.D



CHEMTECH

VOLATILES
MISCELLANEOUS
DATA

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: X4423

MATRIX: Water

METHOD: ASP 95-1

- | | NA | NO | YES |
|--|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications
BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY
ASP CLP, CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for
8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed before sample analysis and
continuing calibration performed within 24 hours of sample analysis for 600 series and
12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8260 and CLP. | | | ✓ |
| b. System Performance Check: Compounds for 8260 and CLP | | | ✓ |

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN-RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank: ✓
- The Blank analysis indicated presence of Acetone (6.6 ug/L) for the datafile VF003932.D and Acetone (11 ug/L); 2- Butanone (3.1 ug/L) in the datafile VF003943.D due to possible lab contamination.

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries that fall outside the acceptable ranges.			
The Surrogate recoveries met the acceptable criteria except for VLCS01 and VLCS02.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable range.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

QA REVIEW

Sherry

Date

09/20/06

CHEMTECH

Lab Chronicle

Order ID:
Client:
Contact:

X4423
Shaw E & I, Inc.
Erik Gustafson

Order Date: 9/7/2006 12:40:20 PM
Project: Bulova Sag Harbor
Location: VOA Lab

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
X4423-01	BSH-GP-3(46-48)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/05/06		09/09/06	09/07/06
X4423-02	BSH-GP-3(26-28)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/05/06		09/10/06	09/07/06
X4423-03	BSH-GP-3(16-18)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/05/06		09/10/06	09/07/06
X4423-04	BSH-GP-3(7-9)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/05/06		09/10/06	09/07/06
X4423-05	BSH-GP-2(50-52)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/06/06		09/11/06	09/07/06
X4423-06	BSH-GP-2(30-32)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/06/06		09/11/06	09/07/06
X4423-07	BSH-GP-2(20-22)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/06/06		09/11/06	09/07/06
X4423-08	BSH-GP-2(11-13)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/06/06		09/11/06	09/07/06
X4423-09	BSH-GP-1(58-60)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/06/06		09/11/06	09/07/06
X4423-10	BSH-GP-1(38-40)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/06/06		09/11/06	09/07/06
X4423-11	BSH-GP-1(28-30)	WATER	<u>VOC-TCLVOA-10</u>	ASP 95-1	09/06/06		09/11/06	09/07/06

X4423-12	BSH-GP-1(18-20)	WATER		09/06/06	09/07/06
			<u>YOC-TCLYOA-10</u>	ASP 95-1	
X4423-13	TRIPBLANK	WATER		09/06/06	09/07/06
			<u>YOC-TCLYOA-10</u>	ASP 95-1	09/09/06

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID# MSVOA_F

STD.NAME	STD REF.#:	STD.NAME	STD REF.#:
Reviewed By	Kedar	Reviewed On	9/11/2006 5:14:40 PM
Tune/Reschk	MSV1-1491	Initial Calibration Stds	MSV1-1547,1553
CCC	N/A	SUBDIRECTORY	VF090906
Internal Standard/PEM	MSV1-1454	HP Acquire Method	VF_BFB/MSVOA_F
ICV/.BLK	MSV1-1549,1553	HP Processing Method	F090906LPW.M

Sr#	SampleId	Data File Name	Date-Time	Operator	Comment	Status
1	BFB TUNE CHCK	VF003924.D	9 Sep 2006 17:10	SD		Ok
2	10 PPB ICC	VF003925.D	9 Sep 2006 17:48	SD		Ok
3	20 PPB ICC	VF003926.D	9 Sep 2006 18:27	SD		Ok
4	50 PPB ICC	VF003927.D	9 Sep 2006 19:06	SD		Ok
5	100 PPB ICC	VF003928.D	9 Sep 2006 19:44	SD		Ok,M
6	200 PPB ICC	VF003929.D	9 Sep 2006 20:23	SD		Ok,M
7	100 PPB ICV	VF003930.D	9 Sep 2006 21:02	SD	SURR. SPIKE 100 PPb	Ok
8	VBF0909W1	VF003931.D	9 Sep 2006 21:41	SD	NOT NEEDED	Ok
9	VBF0909W2	VF003932.D	9 Sep 2006 22:20	SD	ACETONE 6.61 PPb	Ok
10	X4423-01	VF003933.D	9 Sep 2006 22:59	SD	pH <2	Ok
11	X4423-13	VF003934.D	9 Sep 2006 23:38	SD	pH <2	Ok
12	X4423-02	VF003935.D	10 Sep 2006 00:17	SD	pH <2	Ok,M
13	X4423-03	VF003936.D	10 Sep 2006 00:56	SD	pH >2	Ok
14	X4423-04	VF003937.D	10 Sep 2006 1:34	SD	pH <2	Ok
15	BSF0909W1	VF003938.D	10 Sep 2006 2:13	SD	WRONG SURR. SPIKE i.e 20 PPb	Ok
16	BSF0909W2	VF003939.D	10 Sep 2006 2:52	SD	WRONG SURR. SPIKE i.e 20 PPb	Ok

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908) 789-8900

Daily Analysis Runlog For Instrument ID# MSVOA_F

STD.NAME	STD REF.#:	STD.NAME	STD REF.#:
Reviewed By	Kedar	Reviewed On	9/15/2006 12:38:37 PM
Tune/Reschk	MSV1-1491	Initial Calibration Stds	N/A
CCC	MSV1-1549,1553	SUBDIRECTORY	VF091106
Internal Standard/PEM	MSV1-1454	HP Acquire Method	VF_BFB / MSVOA_F
ICV/I:BLK	N/A	HP Processing Method	F090906LPW.M

Sr#	Sampled	Data File Name	Date-Time	Operator	Comment	Status
1	BFB TUNE CHCK	VF003940.D	11 Sep 2006 11:26	SD		Ok
2	50 PPB ICC	VF003941.D	11 Sep 2006 12:04	SD		Ok
3	VBF0911W1	VF003942.D	11 Sep 2006 12:56	SD	NOT NEEDED	Ok
4	VBF0911W2	VF003943.D	11 Sep 2006 13:36	SD	ACETONE 11.17 PPb, 2 BUTANONE 3.06 PPb	Ok
5	X4423-05	VF003944.D	11 Sep 2006 14:17	SD	pH<2	Ok
6	X4423-06	VF003945.D	11 Sep 2006 14:56	SD	pH<2	Ok
7	X4423-07	VF003946.D	11 Sep 2006 15:35	SD	pH<2	Ok
8	X4423-08	VF003947.D	11 Sep 2006 16:13	SD	pH<2	Ok
9	X4423-09	VF003948.D	11 Sep 2006 16:52	SD	pH<2	Ok
10	X4423-10	VF003949.D	11 Sep 2006 17:31	SD	pH<2	Ok
11	X4423-11	VF003950.D	11 Sep 2006 18:10	SD	pH<2	Ok
12	X4423-12	VF003951.D	11 Sep 2006 18:49	SD	pH<2	Ok
13	BSF0911W1	VF003952.D	11-Sep 2006 19:28	SD		NotOk
14	BSF0911W2	VF003953.D	11 Sep 2006 20:07	SD		Ok
15	BSF0911W3	VF003954.D	11 Sep 2006 20:46	SD		Ok
16						
17						

**SHIPPING AND
RECEIVING
DOCUMENTATION**



284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 Fax (908) 789-8922
 www.chemtech.net

CHEMTECH PROJECT NO. 14423
 COC Number 060592

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION		
COMPANY: <u>Shaw Environmental</u>	PROJECT NAME: <u>Bu/ova - S.H.</u>	BILL TO: <u>SO client</u>	PO#: _____			
ADDRESS: <u>101-1 Colin Pointe</u>	PROJECT NO: <u>937053</u> LOCATION: <u>Sed Harbor</u>	ADDRESS: _____	STATE: _____			
CITY: <u>Hop Brook</u> STATE: <u>NY</u> ZIP: <u>11741</u>	PROJECT MANAGER: <u>E. Gustafson</u>	CITY: <u>Q9</u>	STATE: _____			
ATTENTION: <u>Erik Gustafson</u>	e-mail: <u>Erik.Gustafson@shawenv.com</u>	ATTENTION: _____	PHONE: _____			
PHONE: <u>(631) 472-4000</u>	PHONE: <u>(631) 472-4077</u>	ANALYSIS _____	PHONE: _____			
FAX: <u>(631) 472-4000</u>	FAX: <u>(631) 472-4077</u>					
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		PRESERVATIVES		
FAX: _____ DAYS: <u>5</u>	<input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> USEPA CLP					
HARD COPY: _____ DAYS: <u>5</u>	<input type="checkbox"/> RESULTS + QC <input checked="" type="checkbox"/> New York State ASP "B"					
EDD: _____ DAYS: _____	<input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A"					
* TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		<input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____				
<input type="checkbox"/> EDD FORMAT _____						
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	TIME	COMMENTS
1.	BSH-6P-3(46-48')	Aq	X	9/5/06	1055	3 X
2.	BSH-6P-3(26-28')	Aq	X	9/5/06	1115	3
3.	BSH-6P-3(16-18')	Aq	X	9/5/06	1130	3
4.	BSH-6P-3(7-9')	Aq	X	9/5/06	1215	3
5.	BSH-GP-2(50'-52')	AG	X	9/6/06	0905	2
6.	BSH-GP-2(20'-32')	AG	X	9/6/06	0930	3
7.	BSH-GP-2(20'-32')	AG	X	9/6/06	0955	2
8.	BSH-GP-2(11'-13')	AG	X	9/6/06	1025	2
9.	BSH-GP-1(58'-60')	AG	X	9/6/06	1205	2
10.	BSH-GP-1(38'-40')	AG	X	9/6/06	1230	2

REPORT TO BE SENT TO: _____

DATE/TIME: 9/6/06 1430

RECEIVED BY: _____

DATE/TIME: 9/7/06 1140

RECEIVED FOR LAB BY: _____

DATE/TIME: 9/7/06

RECEIVED BY: _____

DATE/TIME: _____

RECEIVED FOR LAB BY: _____

DATE/TIME: _____

SHIPPED VIA: CLIENT: HAND DELIVERED OVERNIGHT
 CHEMTECH: PICKED UP OVERNIGHT

Shipment Complete: YES NO

Page 1 of 2

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION																																									
COMPANY: <u>Shaw E.I., Inc.</u>		PROJECT NAME: <u>Ballou - S.H.</u>		BILL TO:																																									
ADDRESS: <u>101-1 Colin Dr.</u>		PROJECT NO.: <u>837053</u>		ADDRESS: <u>500 Clear</u>																																									
CITY: <u>Hoboken</u> STATE: <u>NJ</u> ZIP: <u>07041</u>		PROJECT MANAGER: <u>Erik Gustafson</u>		CITY: <u>NY</u> STATE: <u>NY</u> ZIP: <u></u>																																									
ATTENTION: <u>Erik Gustafson</u>		e-mail: <u>Erik.Gustafson@shaw-ei.com</u>		ATTENTION:																																									
PHONE: <u>(201) 472-4000</u>		PHONE: <u>(201) 472-4000</u>		PHONE:																																									
FAX: <u>472-4000</u>		FAX: <u>472-4000</u>		FAX:																																									
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																																									
FAX: <u>3</u> DAYS*	<input type="checkbox"/> RESULTS ONLY	<input type="checkbox"/> USEPA CLP	<table border="1"> <thead> <tr> <th colspan="2">PRESERVATIVES</th> <th colspan="2">COMMENTS</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>			PRESERVATIVES		COMMENTS		1	2	3	4	5	6	7	8	9																											
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* TO BE APPROVED BY CHEMTECH	<input type="checkbox"/> New Jersey CLP	<input type="checkbox"/> Other _____																																											
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1.	<u>ESH-GP-1 (18-70)</u>	<u>AP</u>	<u>5</u>	<u>9/8/06</u>	<u>1255</u>	<u>2</u>	<u>AE</u>																																						
2.	<u>ESH-GP-1 (19-20)</u>	<u>AP</u>	<u>X</u>	<u>9/8/06</u>	<u>1315</u>	<u>2</u>																																							
3.	<u>TRIP B(NONE)</u>	<u>AP</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>2</u>																																							
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BY: <u>UPS</u>		DATE/TIME: <u>9/7/06</u>		DATE/TIME: <u>9/7/06</u>		YELLOW - CHEMTECH COPY		PICKED UP <input type="checkbox"/> OVERNIGHT		PINK - SAMPLER COPY																																			
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Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

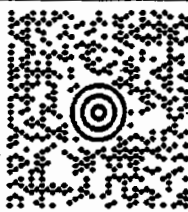



UPS CampusShip: View/Print Label

1. Ensure that there are no other tracking labels attached to your package.
2. Fold the printed label at the dotted line. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**
Customers without a Daily Pickup
 - o Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
 - o Hand the package to any UPS driver in your area.
 - o Take your package to a location of The UPS Store®, UPS Drop Box, UPS Customer Center or Authorized Shipping Outlet near you. Items sent via UPS Return Services (including Ground Returns) are accepted at any UPS Drop Box.
 - o To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

Customers with a Daily Pickup

- o Your driver will pickup your shipment(s) as usual.

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BRK GUSTAFSON 6314724000 SHAW BRT, INC. 101-1 COLIN DRIVE HOLBROOK NY 11741	18 LBS RS SHIP TO: JIMMY MUNOZ 9087898900 300 CHEMTECH 284 SHEFFIELD STREET MOUNTAINSIDE NJ 07092	1 OF 1 1140 9/7/06 JMP	 NJ 078 9-61 	UPS GROUND TRACKING #: 1Z A17 04V 90 9348 7740 	BILLING: P/P DESC: COOLER RETURN SERVICE Reference # 1: Client ID:SHAW03 Reference # 2: Chemtech ID:B0608154  CS 8.6.11.0 WXP1E60 54.0A 04/2006
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CHEMTECH

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Tel . (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

APPENDIX K

Data Usability Summary Report

**BULOVA SAG HARBOR
DATA USEABILITY SUMMARY REPORT (DUSR)
FOR VOLATILE ORGANIC COMPOUNDS (EPA0LM04.2) and
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR (Modified TO-15 SIM)
SAMPLES COLLECTED AND ANALYZED IN
MARCH /JUNE/JULY/SEPTEMBER/ 2006
Report Prepared by
Shaw Environmental & Infrastructure
September 2006**

The DUSR addresses the following questions:

1. Is the data package complete as defined under the requirements for the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B or USEPA CLP deliverable?
All standard data deliverable requirements were met. It should be noted that no instrument performance checks or initial calibration information were provided for the modified TO-15 data since no raw data were included in the packages. This is not an issue since continuing calibration data were provided which exhibited acceptable recoveries.
2. Have all holding times been met?
Yes, all holding times were met for all samples.
3. Do all the QC data fall within the protocol required limits and specifications?
All associated QC data were acceptable with the exception that common laboratory contaminant(s) were detected in the method and/or trip blanks and low surrogate recoveries were experienced for the laboratory control samples associated with the volatile organic compounds (VOCs). These are discussed in the detail in the following evaluation.
4. Have all of the data been generated using established and agreed upon analytical protocols? Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?
Yes for VOC; not applicable for TO-15 GC/MS SIM results since no raw data were provided in the data deliverables.
6. Have the correct data qualifiers been used? Yes

This evaluation applies to data packages from Chemtech Laboratory and Air Toxics Ltd. containing results from analyses of water and air samples collected for the Bulova Sag Harbor project for TCL VOC and AIR TO-15 GC/MS SIM. The package identifiers that will be used throughout this report are Sample Delivery Group (SDG) numbers X4423 (waters) and air 0603660, 0603659, 0603661, 0607026, 0607027,

and 0607388. The QC parameters that were evaluated were System Monitoring Compound Recoveries, Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries, Laboratory Control Standard (LCS) Recoveries, Method Blanks and Trip Blanks, GC/MS Mass Calibration and Ion Abundance Pattern, Initial and Continuing Calibrations, Stability of Internal Standard Response and Retention Times, Field Duplicates and Laboratory Replicates, Dilution and/or Reanalysis of Samples, Matrix Spikes, and Matrix Spike Duplicates.

System Monitoring Compound Recoveries - VOCs

Chemtech’s system monitoring compound recovery limits are slightly broader than those required by the ASP Exhibit E, Part IX, Table 6 for 4-bromofluorobenzene. The other two monitoring compounds have the same limits. The lab has used 86-115% for 4-bromofluorobenzene, and the ASP limits are 86-110%. The limits in Table 6 were used to evaluate this data. They are 88-110% for toluene-d8, 86-110% for 4-bromofluorobenzene, and 76-114% for 1,2-dichloroethane-d4. All surrogates were within the ASP QC limits with the exceptions noted below

System Monitoring Compound Recoveries - VOCs

WATER X4423

VOC Surrogate Recoveries Exceeding ASP Acceptance Criteria

Sample ID	Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
VLCS01	42	40	40
VLCS02	39	37	38

It should be noted that LCS recoveries for all target compounds were within QC limits. Low LCS surrogate recoveries have no effect on the usability of sample results since all sample results exhibited acceptable recoveries.

System Monitoring Compound Recoveries – AIR - Method TO-15 GC/MS SIM

- AIR WO#0603660 - All ASP requirements were met. No data were qualified.
- AIR WO#0603659 - All ASP requirements were met. No data were qualified.
- AIR WO#0603661 - All ASP requirements were met. No data were qualified.
- AIR WO#0607026 - All ASP requirements were met. No data were qualified.
- AIR WO#0607027 - All ASP requirements were met. No data were qualified.
- AIR WO#0607388 - All ASP requirements were met. No data were qualified.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

No associated samples were used/reported for the MS/MSD analyses. No action was required.

Laboratory Control Standard (LCS) Recoveries

Chemtech has spiked all VOC LCS samples with a full target analyte list but used the abbreviated list for LCS QC Summary. No action was required.

Air Toxics LTD has reported trichloroethene, tetrachloroethene, and 1,1,1-trichloroethane as compounds of concern (COC) for 'Method TO-15' and all LCS recoveries were met.

Method Blanks

WATERS X4423

VOC method blanks reported non-detect, at less than the MDL, for all target analytes except for acetone in VBLK01 and VBLK02 and 2-butanone in VBLK02. Acetone was detected at 6.6J µg/L and 11 ug/L for both blanks and 2-butanone was detected at 3.1J µg/L in VBLK02. Acetone and 2-butanone are common lab contaminants so the blank action level is set at ten times the blank level. All samples with detected acetone results were below the reporting limit and less than 10X method blank amounts and should be blank qualified (U) and considered to be non-detect. Affected samples are as follows: BSH-GP-3(46-48), BSH-GP-3(26-28), BSH-GP-3(16-18), BSH-GP-3(7-9), BSH-GP-2 (50-52), BSH-GP-2(11-13), and BSH-GP-1(18-20). 2-Butanone was not detected in any VLK02 associated samples so no action was required.

Trip blank reported non-detect, at less than the MDL, for all target analytes except for acetone at 11 µg/L. All samples with detected acetone results were detected below the reporting limit and less than 10X the trip blank contamination for associated samples: BSH-GP-3(46-48), BSH-GP-3(26-28), BSH-GP-3(16-18), BSH-GP-3(7-9), BSH-GP-2 (50-52), BSH-GP-2(11-13), and BSH-GP-1 (18-20) and results were blank qualified.

AIR – METHOD TO-15 GC/MS SIM

Method blanks reported non-detect, at less than the MDL, for all compounds of concern. No action was required.

GC/MS Instrument Tune (GC/MS Mass Calibration and Ion Abundance Pattern)

WATERS

The VOC relative ion abundances for bromofluorobenzene (BFB) were all within acceptance criteria for the project samples and associated laboratory QC samples.

AIR – METHOD TO-15 GC/MS SIM

No Instrument Performance Checks or Initial Calibrations were include in the data package, therefore; were not evaluated.

Initial and Continuing Calibrations (ICAL/CCAL)

For VOC analyses the QC criteria for relative response factor (RRF), relative standard deviation (%RSD) and percent difference (%D) were met for all target compounds reported by Chem Tech.

AIR – METHOD TO-15 GC/MS SIM

No Initial Calibrations were included in the data package and were not evaluated. Continuing calibrations were included for all samples and no action was required.

Field Duplicates and Laboratory Replicates

WATERS VOC and AIR - METHOD TO-15 GC/MS SIM

There were no field duplicates or laboratory replicates associated with these SDG's. No action was required.

Stability of Internal Standard Response and Retention Times

Internal Standard Response and Retention Times

WATERS X4423

For VOCs all internal standard areas for samples, calibration standards, and method blanks were within acceptance criteria of +100 to -50%.

AIR – METHOD TO-15 GC/MS SIM

No internal standards summaries were included in the data packages; and were not evaluated.

References

EPA Data Validation Functional Guidelines for Evaluating Organics Analysis, October 1999.

New York State Department of Environmental Conservation, Analytical Services Protocol, June 2000.