

**Sarney Farm Superfund Site
Amenia, New York
Project No. 3640030018.03**

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**2005 Groundwater Monitoring Report
and
Five-Year Review**

Prepared for:

**U.S. Environmental Protection Agency
Region II
New York, New York**

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1.0 INTRODUCTION

This report, prepared by MACTEC Engineering and Consulting, PC (MACTEC, formerly ESE New York PC) on behalf of Pitney Bowes Inc., presents the data for the July 2005 groundwater sampling events at the Sarney Farm Superfund Site (Site), as well as the five-year review documentation. This work has been completed pursuant to the requirements of U.S. Environmental Protection Agency (EPA) Unilateral Administrative Order (Order), Index Number II CERCLA 96-0214 for the Sarney Farm Superfund Site (EPA, 2003), and EPA correspondence (dated June 12, 2003) detailing specific Additional Response Action requirements. Field work, laboratory analyses and data validation discussed in this report were completed in accordance with the Groundwater Focused Feasibility Study Sampling and Analysis Plan dated February 26, 1999 (QST, 1999).

1.1 Site Chronology

In the late 1960s, a five-acre portion of the Site was permitted by the Dutchess County Health Department (DCHD) as a sanitary landfill. Non-permitted industrial waste disposal was reported to have occurred at the Site over a two-year period between 1968 and 1969. The disposal of industrial waste at the site led to its inclusion on the New York State Department of Environmental Conservation (NYSDEC) Region 3 Suspected Hazardous Waste Sites Inventory in 1980, and eventually, to EPA's National Priorities List (NPL) in June 1986. Remedial Investigation (RI) and Feasibility Study (FS) reports were completed on behalf of EPA in 1986 and 1988, the findings of which resulted in the issuance of a Record of Decision (ROD) for the Site in September 1990. The ROD detailed the selected remedy for the Site, which included the following:

Debris and Soil

- Drum removal activities
- Excavation and on-site treatment of impacted soil by low-temperature thermal desorption (LTTD)

Groundwater

- No Further Action that included a long-term program to monitor the distribution of contaminants in the bedrock aquifer underlying the Site

The drum removal phase of the remedy was completed between 1992 and 1995. The work began under the direction of TAMS Consultants (an ARCS contractor) on behalf of the EPA. IT Corporation performed the remedial work under subcontract to TAMS. During 1993, ACOE assumed the lead role on

behalf of EPA. IT Corporation subcontracted to ACOE to complete the work. Drum removal and disposal was completed by March 1995.

The RD for the soil remedy was completed by CDM Federal Programs for the ACOE. The RD document was issued during August 1995. In May 1996, EPA issued a Special Notice Letter to Pitney Bowes Inc. requesting that Pitney Bowes perform the soil remediation work. Pitney Bowes retained MACTEC Engineering and Consulting, P.C. (formerly ESE New York, P.C.) to complete the Remedial Action (RA) for soil. MACTEC proposed minor modifications to the existing design specifications in November 1996, which were subsequently approved by EPA and the NYSDEC by January 1997. MACTEC retained Williams Environmental Services, Inc. to undertake the excavation and on-site thermal treatment of soils. Soil remediation work plans were submitted to EPA and the NYSDEC in June 1997. Approvals were received during July and August 1997, and mobilization began in July 1997. On-site thermal treatment of soil was conducted from August through December 1997. Following a winter shut-down, site restoration was completed between May and July 1998. Activities related to the treatment of impacted soil were completed by Pitney Bowes in accordance with a 1996 Administrative Order that was issued by EPA and documented in the Remedial Action Report dated August 1998.

Based on the successful completion of the drum/debris removal efforts, the completion of on-site LTDD treatment of soil, and the findings of the PRGE Report, EPA issued a Preliminary Close-Out Report (PCOR) for the Site (EPA, 2002). The PCOR included a complete discussion of remedial activities completed at the site (including additional groundwater investigation), and concluded that all remedial actions at the Site have been completed in accordance with Close Out Procedures for National Priorities List Sites (OSWER Directive 9320.2-09 A-P).

During 1997, CDM installed two overburden monitoring wells, six piezometers, and one bedrock monitoring well in Area 6. At that time, the monitoring network was comprised of 22 wells (12 overburden and 10 bedrock) and six piezometers. Two rounds of groundwater samples were collected during that year (May and August). Nineteen wells/piezometers were sampled during the first round (seven overburden, two piezometers, and 10 bedrock wells) and 12 wells/piezometers were sampled during the second round (five overburden, three piezometers, and four bedrock wells).

Additional groundwater investigation was required by EPA and completed by MACTEC during 1999 and 2000 (referred to as Phase 1 and Phase 2, respectively), and included sediment sampling, the installation

of additional multi-level bedrock monitoring wells and piezometers, groundwater pumping tests, and groundwater sampling, including nearby residential wells.

Upon review of groundwater data collected during the Phase 1 and Phase 2 investigations, EPA required additional rounds of groundwater sampling in 2001 and 2002. The first 2001 sampling event was completed during June, and included monitoring wells MW-7D, MW-9D, MW-10D, MW-11D, MW-14D, MW-15D, EW-4D, and five nearby residential wells.

The findings of these additional investigations were presented to EPA in the Post-ROD Groundwater Evaluation (PRGE) Report that was approved by EPA and finalized on November 13, 2001. The PRGE Report concluded that constituents-of-concern, primarily 1,2-dichloroethane (1,2-DCA), generally exhibited a steady decline in concentration since routine sampling was initiated in the late 1990's. However certain constituents-of-concern were still present in a small area of the site at concentrations in excess of current EPA groundwater standards. The overall decline in 1,2-DCA concentration in groundwater was attributed to the completion of source removal and on site LTTD treatment of impacted soil, and the attenuation of contaminants through natural physical and chemical degradation processes. In addition, ongoing sampling and analysis of ground water collected from down gradient residential supply wells have confirmed that site-related constituents have not impacted, nor are they expected to impact, nearby private supply wells. A second 2001 sampling event was completed in December, and included monitoring wells MW-7D, MW-9D, and MW-10D.

Between 1999 and 2002, groundwater sampling had been conducted at approximately six-month intervals at selected monitoring wells at the site. Specifically, sampling events were performed in September and November 1999, May and November 2000, June and December 2001, and June 2002. The results of sampling events, up to and including the June 2001 sampling event were included in the PRGE Report. The results of the December 2001 sampling event were provided to EPA as an attachment to the Monthly Progress Report Number 65 (for February 2002 activities) dated March 11, 2002. The findings of the June 2002 sampling event were included in a Groundwater Evaluation Report dated November 2002. In addition to presenting the findings of the June 2002 sampling event, the November 2002 report included a recommendation that future groundwater sampling events at the Site be conducted on an annual basis. The rationale for reducing the sampling frequency was that continued, steady decline in groundwater concentrations had been observed during each subsequent sampling event during the period between 1997 and 2002. EPA approved this recommendation and has required annual sampling for a period of four

years beginning in 2003. Subsequently, groundwater sampling has been completed in July of 2003, 2004, and August 2005.

1.2 Background

This section presents information on the site background, including:

- Site Location and Physical Description
- Site Geology and Hydrogeology
- Land and Resource Use
- History of Contamination
- Initial Response
- Basis for taking action

These are described further in the sub-sections below.

1.2.1 Site Location and Physical Description

The Sarney Farm Superfund Site is located at 225 Benson Hill Road, in the town of Amenia, Dutchess County, New York, approximately 90 miles north of New York City near the Connecticut state line (see **Figure 1**). The Site encompasses approximately 40 acres of a 143-acre residential property. The Site is bordered to the south by Benson Hill Road and residential properties, the west by trees and agricultural areas (pasture and corn fields), the east by steeply sloping wooded areas, and the northwest by the 25-acre Cleaver Swamp. The southern half of the property slopes south and contains the owner's residence, a spring-fed, one-quarter acre pond, open fields, and patches of wooded areas. The site topography is characterized as mountainous or hilly terrain and poorly to moderately well-drained soils.

1.2.2 Site Geology and Hydrology

The region is dominated by a series of northeast/southwest oriented ridges separated by relatively flat valley floors. The Site is located on the western flank of a secondary ridge approximately one mile west of East Mountain. Cleaver Swamp, a New York State wetland, is immediately north and west of the Site.

Drainage from the Site is primarily toward Cleaver Swamp and a down gradient stream south of the swamp. A minor drainage divide, located on the hill slope north of Benson Hill Road, imparts a localized southern vector for both surface runoff and overburden groundwater flow south of this divide.

Groundwater levels, which peak between January and May, generally range from one to thirteen feet below grade.

Bedrock outcroppings are found on the wooded slopes, where the soil consists of well-drained, shallow sandy loam. Soil covering the drier pasture areas varies from shallow sandy loam, with bedrock outcroppings, to gravelly loam, and is well drained. The northern pasture contains poorly drained silt loam that is seasonally wet.

A geophysical investigation completed in 2000, which included seismic refraction, very low frequency and electromagnetic induction surveys, indicated the presence of a shallow bedrock valley with a minimum width of approximately 50 feet, trending northeast to southwest from near monitoring well MW-15D in the southwest to the approximate location of monitoring well MW-10D to the northeast (see Figure 2). In addition to this feature, the VLF survey indicated the presence of a more conductive zone within the bedrock valley. The EM survey did not reveal any similarly trending magnetic anomaly. The results of both the seismic refraction and the VLF surveys suggested the possible presence of a fracture zone within the vicinity of the bedrock valley. Data from both the 1999 and 2000 pump tests indicate the presence of a more permeable zone of bedrock that is approximately parallel to the strike of regional bedrock features as reported by TAMS (1993). The data also confirm that wells located within this zone are hydraulically connected. The more permeable zone is located in the vicinity of the possible bedrock fracture zone that was identified during the geophysical investigation.

1.2.3 Land and Resource Use

The site has historically been used as farmland, as evident by the presence of farm buildings and pastures. The site is currently used as a seasonal residence. While future uses are not known at the present, it is not inconceivable that the property could be developed for something other than agricultural use, such as residential or recreational. If used for residential purposes, groundwater would likely be used for drinking purposes. Unless services were developed for recreational users, it is unlikely that people would be exposed to groundwater or other impacted resources. As previously described, there is no current ecological impact related to site conditions.

1.2.4 History of Contamination

In 1965, a five-acre portion of the site was permitted to accept wastes, and operated through 1969. Between 1968 and 1969, industrial wastes, including 55-gallon drums, five-gallon pails, glass bottles and other containers were disposed at the site. The disposal operations were curtailed by the Dutchess County Department of Health in 1969. The Site was subsequently purchased by the present owner in 1972. Groundwater contamination was found by the Dutchess County Department of Health in 1982 and by New York State in 1984. The Site was placed on the National Priorities List in 1986.

1.2.5 Initial Response

EPA's Removal Program assessed the Site in 1987 and installed a biodegradation/ aeration treatment system. A french-drain system collected and treated leachate from the original dump site and areas to which contaminated leachate had migrated. This system remained active until the site remediation began.

On September 30, 1996, EPA issued a Unilateral Administrative Order (UAO) to Pitney Bowes Inc., Index No. II CERCLA-96-0214, to perform the remedial action for the excavation and on-site treatment of contaminated soils. Pitney Bowes enlisted the services of MACTEC as its contractor to perform the RA work.

1.2.6 Basis for Taking Action

A remedial investigation/feasibility study of the Site was completed in May 1990. A Proposed Plan outlining EPA's preferred comprehensive remedy for the Site was released for public review on May 11, 1990. The September 1990 ROD required the excavation and off-site treatment of buried drums, and the excavation and on-site low-temperature thermal treatment of contaminated soils. The ROD also required additional investigation of the groundwater to confirm the selection of a no further action groundwater remedy. During the RD, the nature and extent of residual soil contamination in four separate waste disposal areas was also investigated; it was determined that one of these areas (Area 3) was not contaminated. Soil cleanup criteria for seven constituents (1,2-dichloroethane, 2-butanone, 4-methyl-2-pentanone, chloroform, toluene, trichloroethene, and xylenes) were also developed during the RD. Removal and disposal or treatment of buried drums, containers and waste occurred between 1992 and 1995.

1.3 Remedial Actions

During the RD, the selected remedy was divided into two operable units (OUs): Drum Excavation (OU1) and Soil Excavation and Treatment (OU2); a Groundwater Investigation to confirm the selection of the no further action groundwater remedy initiated during the RD was completed during the OU2 RA work under the UAO.

1.3.1 OU1 - Drum Excavation

The drum excavation RA was initiated in March 1992 and was completed in March 1995. A total of 674 55-gallon drums, 552 5-gallon pails, and 20,353 small "lab-pack" containers were excavated and disposed off-site. The excavation was initially performed through a Region 2 ARCS contractor, TAMS

Consultants. In July 1992, TAMS awarded a subcontract to IT Corporation to excavate and remove buried drums from Areas 1, 2, and 4 of the Site. IT first mobilized to the Site in August 1992 and excavation commenced in Area 4 in September 1992. The quantities of buried materials which were excavated were considerably greater than expected in this area. Area 4 excavation was completed in early March 1993. Due to contract constraints, EPA could only complete the excavation and staging of Area 4 wastes under the TAMS contract. In April 1993, the contractor demobilized from the Site.

The drum excavation for Areas 1 and 2 was initiated via an Interagency Agreement with the United States Army Corps of Engineers (USACE). IT was authorized by the USACE to proceed with the disposal of Area 4 wastes. From all the waste recovered from Areas 1, 2, and 4, sixteen overpacked drums of material were believed to contain evidence of Potentially Responsible Party (PRP) involvement at the Site; this material was segregated for enforcement review.

An IT subcontractor, Signal Environmental, set up an on-site automated system to consolidate the lab packs mechanically rather than by hand. This system processed approximately 4,000 containers of liquid and solid chemical wastes safely and generated fifteen 55-gallon drums of consolidated wastes.

At the completion of excavation and removal operations, IT performed both magnetometer and ground-penetrating radar (GPR) surveys of the areas; this work confirmed that Areas 1, 2, and 4 and the adjacent areas did not contain any remaining metallic objects. Also, the GPR survey results did not indicate any additional areas where soil had been significantly disturbed.

Hazardous waste recovered from the Site, including the consolidated lab packs, were disposed at RCRA-permitted facilities. Disposal operations at the Site concluded on March 17, 1995.

1.3.2 OU2 - Soil Excavation and Treatment

The RD for the soil excavation and treatment portion of the ROD was performed by EPA's ARCS contractor, CDM Federal Programs. Through evidence collected during the drum excavation activities, Pitney Bowes was identified as a PRP. Subsequently, EPA issued a UAO to Pitney Bowes to conduct the soil remediation. MACTEC was retained by Pitney Bowes to provide overall management and coordination of the project, and to perform the sampling and analysis. Chemical analysis of soil and water samples was subcontracted to Severn Trent Envirotech (formerly Envirotech Laboratories), located in Newburg, NY. MACTEC subcontracted treatment and construction activities to Williams Environmental Services. Normandeau Associates, Inc. provided independent quality assurance testing (soil and water

samples). The USACE provided oversight on behalf of EPA. The NYSDEC also provided oversight of the remedial activities.

Mobilization to the Site began in July 1997. The lower field (near Areas 1 and 2) was cleared and compacted to support the low-temperature thermal desorption unit. The major components of the LTDD unit (kiln, baghouse, thermal oxidizer, control trailer, and generator) were transported to the Site as discrete wheeled units. Other major components (stack, feed management unit, augers, and other ancillary equipment) were transported on flat-bed trailers. The unit was assembled during August 1997.

Soil excavation commenced in August and was completed in November 1997. The initial boundaries of the excavations were located by survey based on the design drawings. Soil excavation started in Area 4 and moved to Area 2 and then Area 1. Bedrock was encountered in parts of Area 4 and Area 2. Groundwater was encountered in Area 4 (minor amount), Area 2, and Area 1. A total of 7,300 cubic yards (cy) of soil was excavated during the RA including 1,230 cy from Area 1, 2,672 cy from Area 2, and 3,398 cy from Area 4.

Approximately 200,000 gallons of water that accumulated in excavations, decontamination pads, and the soil loading pad were treated on-site and used as process water for operation of the LTDD.

Treated soil was backfilled into the excavation areas after post-excavation sampling results showed that cleanup levels in the excavated areas had been achieved. The soil was moved into the excavated areas and compacted with a bulldozer in one-foot lifts. The top five lifts (0-5' below grade) were tested for compaction and moisture at a minimum rate of one test per 3,000 square feet.

In order to restore the excavated areas to grade, two additional sources of backfill were required, namely, a local borrow source and off-site fill. The local borrow source was identified and tested for chemical and geotechnical parameters (such as grain size and organic content). The certified-clean off-site fill was purchased from a nearby commercial gravel provider. Approximately 1,100 cy of off-site backfill was placed in the excavations.

At the completion of treatment operations, the LTDD unit was dismantled and decontaminated. All major components of the LTDD were transported off-site by December 19, 1997. Site restoration began in May 1998 and was completed in July 1998.

The soil excavation and backfill portion of the remedial action was described in an approved Remedial Action Report dated September 1998.

1.3.3 Groundwater Investigation

Investigations of site groundwater, including bedrock and residential well sampling, have been performed since the 1990 ROD to verify that the No Further Action groundwater remedy remained appropriate. The findings of these investigations were presented in a September 2001 Post-ROD Groundwater Evaluation report, and are summarized below.

1.3.3.1 Site Groundwater

The groundwater investigation began as part of the TAMS RD effort in early 1991. Nine monitoring wells were installed and sampled. Volatile organic compound (VOC) contamination was identified migrating from Area 4. After the closure of the TAMS contract, EPA tasked CDM to install additional wells to characterize the groundwater flowing from Area 4 toward Cleaver Swamp, as well as the water and sediments in Cleaver Swamp. The surface water sampling in Cleaver Swamp verified that significant contamination was not present in the swamp and that the outflow from the swamp was not contaminated. An evaluation of the hydrogeology in this area indicated a localized area of a downward flow of the groundwater gradient from the overburden into the bedrock aquifer, necessitating further investigation of the fate of this contamination. This effort was undertaken by Pitney Bowes which tasked MACTEC to conduct a two-phase investigation regarding the fate and transport of site-related contamination.

Five deep bedrock borings and eleven piezometers were installed at the Site. Multi-level samplers were installed into the bedrock borings to allow for discrete-zone sampling and hydrogeologic analysis of the local aquifer system. Groundwater was sampled and water levels were recorded on two separate events; one site-wide, comprehensive event, and a second event focused on areas of potential concern. A previously unobserved set of water-bearing fractures was discovered at one location. A geophysical analysis was performed to map these fractures so additional monitoring wells could be installed to sample the groundwater migration through the bedrock aquifer in this area. Two additional deep bedrock borings were completed, and multi-level samplers were installed into them. In addition, two short-term pumping tests were performed.

Based on the results of this effort, it was determined that groundwater flow in the overburden generally follows the topography of the Site. As a result of this pattern of flow, any residual VOC in the overburden would likely be transported toward Cleaver Swamp. The data and field measurements suggest that the

remaining site-related contamination is migrating into Cleaver Swamp where it is attenuated by natural processes (which include biodegradation, dispersion, and volatilization), and ultimately poses no significant health-related exposure to the public or the environment.

The VOC concentrations in the groundwater associated with the Site observed during the post-ROD study have largely decreased with time. Decreasing trends were particularly evident following the removal of the contamination sources. 1,2-Dichloroethane has historically been, and remains, the groundwater contaminant observed most frequently and at the highest levels. The highest concentration of DCA was observed at monitoring well TW-1S at a level of 17,000 ppb in March 1992. This well is immediately adjacent to the western edge of Area 4 and the 1992 sampling effort preceded the remediation of the area. Following the remediation of Area 4, the levels of DCA in TW-1S dropped to 58 ppb in August 1997, and to non-detectable levels in subsequent sampling events.

The wells located immediately west of Area 4 show that VOC contamination remains, but is quickly decreasing in concentration and areal extent. However, based on the trends of the sampling analysis, one monitoring well (MW-7D) shows a cleanup time which extends to approximately 2009. Concentrations in this well have decreased from 6,400 µg/L in May 1997 to 460 µg/L in June 2001. The current concentration (August 2005) is 290 µg/L. The contaminated area is located between Area 4 and Cleaver Swamp and is approximately one acre in size. EPA will continue to monitor contamination levels in this area. Regardless of this remaining contamination, it is evident that there is no harmful exposure to human health or the environment, and it appears that this contamination is not migrating beyond this small area.

1.3.3.2 Residential Wells

EPA has been conducting residential well sampling at homes near the Site to ensure that local residents are not being adversely impacted by migrating groundwater contamination. These residences are situated within one-half mile of the Site along Benson Hill Road, and include the following addresses:

- 151 Benson Hill Road
- 154 Benson Hill Road
- 199 Benson Hill Road
- 224 Benson Hill Road
- 225 Benson Hill Road

The residential wells were sampled in 1985, 1986, 1990, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 2000, 2001, 2002, 2003, 2004, and 2005. The residential sampling has not indicated any site-related contaminants in excess of State or Federal guidelines in any residential well. In February 2000, Pitney Bowes assumed responsibility for the residential sampling.

1.3.4 Periodic Groundwater Monitoring

This section presents a summary of the groundwater sampling results since 2000. Details of the 2005 sampling are presented in Sections 2.0 and 3.0.

1.3.4.1 2001 and 2002 Groundwater Sampling

This section presents the data for the December 2001 and June 2002 groundwater sampling events.

Residential Well Sampling Results

During both the December 2001 and June 2002 sampling events, no VOCs were detected in any of the five residential wells sampled. The absence of site related VOCs in the residential wells is consistent with previous sampling events where VOCs were not detected in excess of State or Federal guidelines during any sampling event. These data confirmed that nearby residential wells are not being impacted by historic activities at the site.

Groundwater Monitoring Well Sampling Results

The results of groundwater VOC analyses are provided in Table 1 (VOC in Bedrock Wells). This table includes all groundwater data for the selected wells dating back to when each well was installed and first sampled (1997 for MW-7D, and 1999 for MW 9 and 10D). The table is organized by well with data presented in chronological order from the earliest to the latest sampling. For convenience, columns showing December 2001 and 2002 sampling event data are shaded in tan. Additionally, any VOC detected above their respective EPA guidelines are shown in bold text.

During the June 2002 sampling event (as in the past), the main compound of interest (1,2-DCA) was detected at concentrations above its EPA MCL (5 µg/L) in all zones at both MW-7D and MW-9D. In addition, 1,2-DCA was detected at concentrations above its EPA MCL in the deep and medium zones at MW-10D (but not the shallow zone). Based on previous rounds of data, and estimated times to naturally achieve the EPA MCL as presented in the PRGE Report, the presence of 1,2-DCA in these wells at the concentrations discussed below was expected.

1,2-DCA was detected at the highest concentrations at MW-7D which is located about 320 feet west (down gradient) of former disposal area number 4. At MW-7D, 1,2-DCA was detected at concentrations ranging from 170 µg/L in the shallow zone (MW-7D-S) to 380 µg/L in the deep zone (MW-7D-D). At MW-9D, located about 140 feet west of MW-7D (and is also down gradient of Area 4), 1,2-DCA was detected at concentrations of 160 µg/L (deep zone), 260 µg/L (medium zone), and 270 µg/L (shallow zone). At MW-10D, 1,2-DCA was detected at concentrations of 56 and 87 µg/L in the deep and medium zones, respectively. 1,2-DCA was detected at a concentration (3 µg/L) below the standard in the shallow well at this location.

As observed during previous sampling events, benzene and trichloroethene (TCE) were detected at low levels in MW-9D and MW-7D. These compounds were generally detected at concentrations ranging from 2 to 12 µg/L, and only occasionally at concentrations in excess of their respective EPA MCL of 5 µg/L. The detections of benzene and TCE were consistent with previous rounds of data.

As predicted in the PRGE Report, 1,2-DCA continues to demonstrate declining concentrations in groundwater at the site. This trend at MW-7D is shown in Figure 3, where the decreasing concentration of 1,2-DCA is plotted as a function of time for the deep and shallow zones, respectively. As shown in this figure, the concentration of 1,2-DCA shows some evidence of seasonal spikes during the early winter sampling events (11/00 and 12/01); however, the overall trend of the concentration is decreasing with time. The same trend is observed at each zone at MW-9D (shown in Figure 4). The trend is not as evident at location MW-10D (shown in Figure 5) where concentrations of 1,2-DCA are lower than at MW-7D and MW-9D by an order of magnitude. It is expected that over time, 1,2-DCA will drop to below the MCL in the deep and medium zones as it already has in the shallow zone.

1.3.5 2003 Groundwater Sampling

This section presents the data for the July 2003 groundwater sampling event.

Residential Well Sampling Results

During the 2003 sampling event, no VOCs were detected in any of the five residential wells sampled. The absence of site related VOCs in the residential wells is consistent with previous sampling events where VOCs were not detected in excess of State or Federal guidelines during any sampling event. These data confirm that nearby residential wells are not being impacted by historic activities at the site.

Groundwater Monitoring Well Sampling Results

The results of groundwater VOC analyses are provided in Table 1 (VOC in Bedrock Wells). For convenience, columns showing 2003 sampling event data are shaded in green.

During the 2003 sampling event, the main compound of interest (1,2-DCA) was detected at concentrations above its EPA MCL (5 µg/L) in the deep zone at MW-7D and in all three zones in MW-9D. In addition, 1,2-DCA was detected at concentrations above the EPA MCL in all three zones at MW-10D (but only at a concentration of 1 µg/L above the EPA MCL in the shallow zone). Based on previous rounds of data, and estimated times to naturally achieve the EPA MCL as presented in the PRGE Report the presence of 1,2-DCA in these wells at the concentrations found was expected.

1,2-DCA was detected at the highest concentrations at the deep zone at MW-7D, which is located nearest to, and about 320 feet down gradient from former disposal area number 4. At MW-7D-D, 1,2-DCA was detected at a concentration of 250 µg/L, which is a reduction of over 100 µg/L relative to the concentration measured in 2002. In the shallow zone at that same location, the concentration of 1,2-DCA has dropped from 170 µg/L in 2002 to 2 µg/L in 2003, which is below the EPA MCL of 5 µg/L. At MW-9D, located about 140 feet west of MW-7D (and also down gradient of Area 4), 1,2-DCA was detected at concentrations of 200 µg/L in each of the three zones. This is a slight increase in the deep zone (from 160 µg/L in 2002) but lower in the intermediate and shallow zones where the compound was detected at concentrations ranging from 260 to 270 µg/L in 2002. At MW-10D, 1,2-DCA was detected at concentrations of 62, 73, and 6 µg/L in the deep, intermediate, and shallow zones, respectively.

As observed during previous sampling events, benzene and TCE were detected at trace to very low levels in MW-9D and MW-7D (deep zone only). The detections of benzene and TCE are consistent with previous rounds of data.

1.3.6 2004 Groundwater Sampling

This section presents the data for the 2004 groundwater sampling event.

Residential Well Sampling Results

During the 2004 sampling event, VOCs were not detected in any of the five residential wells sampled. The absence of site related VOCs in the residential wells is consistent with previous sampling events where VOCs were not detected in excess of State or Federal guidelines during any sampling event. These data confirmed that nearby residential wells were not being impacted by historic activities at the site.

Groundwater Monitoring Well Sampling Results

The results of groundwater VOC analyses are provided in Table 1 (VOC in Bedrock Wells). For convenience, columns showing 2003 sampling event data are shaded in yellow.

Based on review of data from the 2004 sampling event, the main compound of interest (1,2-DCA) was detected at concentrations above its EPA MCL (5 µg/L) in the deep zone at MW-7D and in all three zones in MW-9D. In addition, 1,2-DCA was detected at concentrations above the EPA MCL in all three zones at MW-10D. Based on previous rounds of data, and estimated times to naturally achieve the EPA MCL as presented in the PRGE Report, the presence of 1,2-DCA in these wells at the concentrations discussed below was expected.

1,2-DCA was detected at the highest concentrations at the deep zone at MW-7D which is located nearest to, and about 320 feet down gradient from, former disposal area number 4. At MW-7D-D, 1,2-DCA was detected at a concentration of 290 µg/L, which is a reduction of nearly 100 µg/L relative to its concentration in 2002. In the shallow zone at that same location, the concentration of 1,2-DCA dropped from 2 µg/L in 2003 to 1 µg/L in 2004. At MW-9D, located about 140 feet west of MW-7D (and also downgradient of Area 4), 1,2-DCA was detected at concentrations of 150, 160, and 190 µg/L in the three zones (MW-9D1, MW-9D2, and MW-9D3, respectively). These concentrations are reduced from those measured in 2003. At MW-10D, 1,2-DCA was detected at concentrations of 61, 69, and 6 µg/L in the deep, intermediate and shallow zones, respectively.

Benzene was not detected in any well during this sampling event. As observed during previous sampling events, TCE was detected at trace to very low levels in MW-9D and MW-7D, but only at the standard? in the shallow well at MW-9D.

As predicted in the PRGE Report, 1,2-DCA continues to demonstrate declining concentrations in groundwater at the site, particularly at MW-7D and MW-9D which are nearest to the former source areas. The trend at MW-10D is not as evident where concentrations of 1,2-DCA are much lower than at MW-7D and MW-9D, but it is anticipated that over time, the concentration of 1,2-DCA at MW-10D will drop to below its MCL.

1.4 Monitoring Well Removals

In its June 12, 2003 letter to Daniel Goldstein of Pitney Bowes, EPA requested that monitoring wells not in use for groundwater evaluation be properly decommissioned, including the following:

MW-1	MW-2	MW-3	TW-1S	TW-2M
TW-5D	EW-2S	EW-3D	EW-5D	EW-6S
EW-7S	PZ-1	PZ-2	PZ-2D	PZ-3
PZ-4	PZ-5	PZ-7	11D	12D
13D	14D	15D		

Of these wells, five (11D through 15D) were multi-level samplers (MLS) placed in an open bedrock hole, four (TW-2M, TW-5D, EW-3D, and EW-5D) were open bedrock wells, and the remainder were two- to six-inch PVC wells.

MACTEC mobilized to the site on May 31, 2005 to initiate the removal or abandonment of these wells, as described below.

Open Bedrock

Open bedrock wells (TW-2M, TW-5D, EW-3D, and EW-5D) were grouted by placing a tremie pipe at the bottom of the borehole and pumping grout to fill the hole from the bottom up. The grouting was terminated two to three feet below grade, and the remainder of the borehole backfilled with fill material to one foot below grade. Topsoil was placed to the level of the surrounding grade, then seeded and mulched to encourage growth of soil-stabilizing grass.

PVC Wells

PVC well materials were removed by pulling the equipment from the ground with the drill rig. Well materials were disassembled or cut into 10- or 20-foot section and placed in a roll off box for subsequent disposal as non-hazardous waste.

Once the well materials were out of the ground, the borehole was grouted using the procedures described above, with the grouting terminated two to three feet below grade. The remainder of the borehole was backfilled with fill material to one foot below grade, topsoil was placed to the level of the surrounding grade, and then grass seed and mulch were placed to encourage growth of soil-stabilizing grass.

Multi-level Samplers

Several attempts were made to remove the MLS equipment from three of the MLS wells designated for decommissioning. Because of the tight tolerances between the borehole (diameter of 3.0 inches) and the MLS casing (schedule 80 stainless steel with an outside diameter of 2.0 inches), there was insufficient space to use casing to cut through the packers to release the equipment from the borehole. Attempts were made to pull the equipment out; however, because the sections of stainless steel pipe were only connected using plastic cable ties, the casing separated above the packer at three MLS locations (MW-11D, MW-12D, and MW-13D). The remaining portions of the MLS could not be removed, and were left in place.

Attempts were made to core around or grind the casing out using a core barrel or carbide-tipped roller bit; however, these attempts were unsuccessful, and the wells were not removed.

Due to the problems associated with well decommissioning, discussions between EPA, the NYSDEC, MACTEC, and Pitney Bowes are currently ongoing. It is anticipated that an agreement as to the most appropriate way to remove this equipment can be reached and the wells decommissioned in 2006.

1.5 Progress Since the Last Five-Year Review

This is the first five-year review for the site.

1.6 Technical Assessment

Question A: Is the remedy functioning as intended by the decision documents?

Yes. The remedy has resulted in reduced concentrations of VOCs in groundwater, elimination of contaminants in soil, and removal of liquid and solid waste from the site.

Question B: Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of remedy selection still valid?

Yes. No unexpected conditions were encountered during remedy implementation, nor were data collected that would have resulted in selection of an alternate remedy.

Question C: Has any other information come to light that could call into question the protectiveness of the remedy?

No. The remedial work completed and the groundwater monitoring data confirm the conceptual model for the site, and the protectiveness of the remedy.

1.7 Technical Assessment Summary

This five-year review finds that:

- Remedial action for soil has been completed and has resulted in removal of contaminants;
- The removal action for wastes (drums, bottles, and other containers) was complete, and no additional impacted areas or waste containers have been found;
- Monitoring wells are functional and securely locked; and
- Groundwater monitoring continues to show reducing concentrations over time.

The findings from the groundwater investigation show that the remedy selected in the ROD is appropriate, but contaminants remain in a small area of the aquifer. The contaminated groundwater will continue to be sampled by Pitney Bowes. The groundwater containing residual contaminants is not currently posing a threat to human health or the environment.

The 1990 ROD stated that administrative controls may be needed to restrict the use of groundwater at specific locations at the Site. EPA believes that the Dutchess County Department of Health requirements for installation of new wells currently provide adequate control to ensure that this localized portion of the aquifer is not utilized for drinking water. The DCDH requires that a plan (including the specific location) for drilling a well be submitted for review and approval prior to the well installation. DCDH reviews this drilling plan against the NYSDEC list of inactive hazardous waste disposal sites to determine if there may be any groundwater quality concerns in the vicinity. Subsequently, the new well's water must be analyzed for chemical parameters before the County approves the well for use. However, EPA may seek to supplement this control in the future. This will be determined by observing the trends of the contaminant levels over time through sampling performed by Pitney Bowes and reported to NYSDEC and EPA.

2.0 GROUNDWATER SAMPLING

Groundwater sampling during the 2005 sampling event focused on five residential wells near the Site and select multi-level bedrock monitoring wells located downgradient of Area 4 (MW-7D and MW-9D), and west of Areas 1 and 2 (MW-10D). The residential wells, referred to as 151 BHR (formerly referred to as "Chamberlin"), Taylor, Emerson, Hurlburt, and Sarney, were included in the sampling effort to confirm that these wells remain unaffected by past waste disposal at the Site. The groundwater monitoring wells included in this sampling event (MW-7D, -9D, and -10D) were specified by EPA. Prior to sampling, water level measurements are collected from these wells. Histograms of these historical data are presented in Figures 6, 7, and 8.

Groundwater sampling was completed in accordance with USEPA Region II Groundwater Sampling Procedure for Low-Stress (Low Flow) Purging and Sampling, and the Groundwater Focused Feasibility Study Sampling and Analysis Plan approved by EPA. Specifically, the two discrete sampling zones at MW-7D (MW-7D-S (shallow) and MW-7D-D (deep)) were purged and sampled using a conventional, variable speed, stainless steel submersible pump equipped with dedicated Teflon discharge tubing. The purging process at MW-7D-S and MW-7D-D included low-flow pumping to minimize drawdown in the well, and monitoring of various groundwater parameters (e.g., pH, temperature, turbidity, conductivity) to determine if fresh groundwater was entering the well. Once the parameters stabilized over three consecutive readings, the wells were considered sufficiently purged and samples were collected by directing the pump discharge directly into the prepared sample containers.

Monitoring wells MW-9D and MW-10D are equipped with Solinst multi-level sampling devices that included dedicated, nitrogen-driven, stainless steel/Teflon bladder sampling pumps set at three discrete intervals. Both MW-9D and MW-10D include three discrete depth sampling ports/pump assemblies that are referred to as zones 1, 2 and 3 (deep, medium and shallow zones respectively). Purging at these wells was required mainly to flush stagnant water from the dedicated sampling tubes since the design of the multi-level sampling system, which includes the use of permanent packers, precludes the presence of standing casing water. The 0.25-inch diameter sampling tubes contain approximately 0.004 gallons of water per foot. The saturated length of the sampling tubes ranges from approximately 130 feet (deep zone at MW-9D-1) to approximately 45 feet in shallow zone at the same location. The volume of stagnant tubing water in the longest sampling tube is therefore approximately 0.52 gallons. To adequately purge

stagnant sampling tube water at MW-9D and MW-10D, they were allowed to run for a minimum of 30 minutes at flow rates of approximately 0.07 gallons/minute, resulting in the removal of approximately two gallons of water, which is at least four times the standing volume of the deepest zone and up to 11 times the standing volume for the shallowest zone. Once the dedicated bladder pumps were allowed to operate for a minimum of 30 minutes, purge parameters (e.g., pH, temperature, etc.) were recorded, and samples collected. All groundwater samples were submitted for laboratory analysis for low-medium level VOC.

Residential groundwater samples were collected from either outside or kitchen sink taps by opening the tap and allowing the water to run for a minimum of 15 minutes to clear the plumbing system of any standing water. Residential samples were submitted for laboratory analysis for low-level VOCs.

In each case, the pH of the groundwater or tap water was checked in the field to determine the required amount of sample preservative (hydrochloric acid) to be added to each sample container to achieve a sample pH of approximately 2 pH units. Quality assurance/quality control (QA/QC) samples (field duplicates, matrix spikes, matrix spike duplicates, and trip blanks) were also collected and submitted for laboratory analyses.

Groundwater samples were collected, stored and shipped to the laboratory under strict chain-of-custody protocols in accordance with the procedures described in the Work Plan. The samples were collected in laboratory-prepared sample containers, and stored on ice in secure coolers until being hand-delivered to the laboratory (Severn Trent Laboratories located in Newburgh, NY) for VOC analysis. Backup documentation for laboratory deliverables is maintained at both the Newburgh Laboratory file retention facility and in the central project file at MACTEC's office. Analytical laboratory data Form 1 reports are provided in Appendix A.

Analytical data were validated in accordance with EPA Region II data validation guidelines by Kim Watson of Strategic Environmental Management in Montpelier, VT. The data validation report is included in Appendix B.

3.0 SAMPLING RESULTS AND DATA INTERPRETATION

3.1 Residential Well Sampling Results

During the 2005 sampling events, VOCs were not detected in any of the five residential wells sampled. The absence of site related VOCs in the residential wells is consistent with previous sampling events where VOCs were not detected in excess of State or Federal guidelines during any sampling event. These data confirm that nearby residential wells are not being impacted by historic activities at the site.

3.2 Groundwater Monitoring Well Sampling Results

The results of groundwater VOC analyses are provided in Table 1 (VOC in Bedrock Wells). This table includes groundwater data for the selected wells dating back to when each well was installed and first sampled (1997 for MW-7D, and 1999 for MW 9 and 10D). The table is organized by well, with data presented in chronological order from the earliest to the latest sampling events. For convenience, columns for the current sampling event data are shaded in blue. Additionally, the concentration of any compound detected above its respective EPA guidelines is shown in bold.

During the 2005 sampling event, the main compound of interest (1,2-DCA) was detected at concentrations above the EPA MCL (5 µg/L) in the deep zone at MW-7D, in the three zones in MW-9D, and the three zones at MW-10D (although at a concentration of 5 in the shallow zone). Based on previous rounds of data and estimated times to naturally achieve the EPA MCL as presented in the PRGE Report, the presence of 1,2-DCA in these wells at the concentrations discussed below was expected. Figures 3, 4, and 5 present a graphical depiction of the groundwater concentration data as well as estimated time to meet cleanup goals for each well.

1,2-DCA was detected at the highest concentrations at the deep zone at MW-7D which is located nearest to, and about 320 feet downgradient from, former disposal area number 4. At MW-7D-D, 1,2-DCA was detected at a concentration of 290 µg/L. In the shallow zone at that same location, the concentration of 1,2-DCA has dropped from 2 µg/L in 2004 to 1 µg/L in 2005, which is below the EPA MCL of 5 µg/L. At MW-9D, located about 140 feet west of MW-7D (and also downgradient of Area 4), 1,2-DCA was detected at concentrations of 93, 140, and 150 µg/L in zones D1, D2, and D3 (deep, medium, and shallow zones), respectively. These are the lowest concentrations observed in this well since sampling began in

1999. At MW-10D, 1,2-DCA was detected at concentrations of 40, 55, and 5 µg/L in the deep, intermediate, and shallow zones respectively.

As observed during previous sampling events, benzene and TCE were detected at trace to very low levels in MW-7D (deep zone only) and MW-9D. These compounds were generally detected at concentrations ranging from 2 to 7 µg/L, and infrequently at concentrations in excess of the EPA MCL of 5 µg/L. The detections of benzene and TCE are consistent with previous rounds of data.

As predicted in the PRGE Report, 1,2-DCA continues to demonstrate declining concentrations in groundwater at the site, particularly at MW-7D and MW-9D which are nearest to the former source areas. The trend at MW-10D is not as evident where concentrations of 1,2-DCA are much lower than at MW-7D and MW-9D, but it is anticipated that over time, the concentration of 1,2-DCA at MW-10D will drop to below the MCL.

Based on the most recent round of data, the estimated half-life for 1,2-DCA at locations with the highest concentrations (i.e., MW-7D-D and MW-9D) range from approximately 1.6 to 1.9 years. These half-life estimates are comparable to those calculated during previous sampling events indicating that the rate at which the concentration of 1,2-DCA is declining is remaining steady. At the current concentrations, these half-lives indicate that the time to achieve current EPA MCLs for 1,2-DCA at most locations is less than five years, which is down from a previous maximum of 24 years based on the 2002 data. However, due to the low concentrations and small changes over time observed in the MW-10D cluster, it is not possible to calculate an accurate half-life for these wells. Figures 3, 4, and 5 graphically present estimated times to meet drinking water standards based on historical data trends.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The data collected during the 2005 sampling event continue to support the No Further Action remedy, along with long-term monitoring, as specified in EPA's ROD and Preliminary Close-Out Report. While 1,2-DCA concentrations remain above the EPA MCL at certain locations, the contaminated area is relatively small, and EPA has determined that there is no significant human or environmental risk. The concentration of 1,2-DCA in groundwater continues to diminish since source removal activities and treatment of residually contaminated soils was completed in 1997. It is expected that natural processes (e.g., biodegradation, dispersion, and volatilization) will continue to operate in the future until 1,2-DCA, and other VOCs are no longer detectable in groundwater.

Furthermore, the majority of the impacted area is remote and difficult to access, and is characterized by steeply sloping, densely wooded terrain. In the unlikely event that groundwater resources in the vicinity of the impacted area are considered for development, existing Dutchess County Department of Health permit requirements for installation of potable water supply wells will provide assurance that this portion of the site will be restricted from use. Based on these factors, MACTEC agrees with EPA's position as stated in the Preliminary Close-Out Report that additional administrative controls (e.g., deed restrictions) are not necessary at this time. As stated in EPA's PCOR, groundwater containing residual contaminants is limited to a small area of the aquifer, and is not currently posing a threat to human health or the environment. Therefore, the No Further Action remedy selected in the ROD continues to be appropriate, and no further response actions, other than periodic monitoring, are necessary.

EPA has required long-term monitoring of select bedrock and residential wells on an annual basis through June 2006. However, based on the steady and predictable rate of decline in wells monitored over the past six years, groundwater sampling of the current list of wells (MW-7D, MW-9D, and MW-10D, and five nearby residences) every two years will provide data at a frequency that will be suitable to demonstrate a continuation in the observed decreasing trend in concentrations.

Of the 12 groundwater monitoring wells that are currently present at the site, three (MW-7D, MW-9D, and MW-10D) are sampled as part of the monitoring program. The remaining nine are not currently included in any sampling program. Of the nine, eight are located in either Area 4 or Area 6, and one is located in Area 2 (see Figure 2).

References

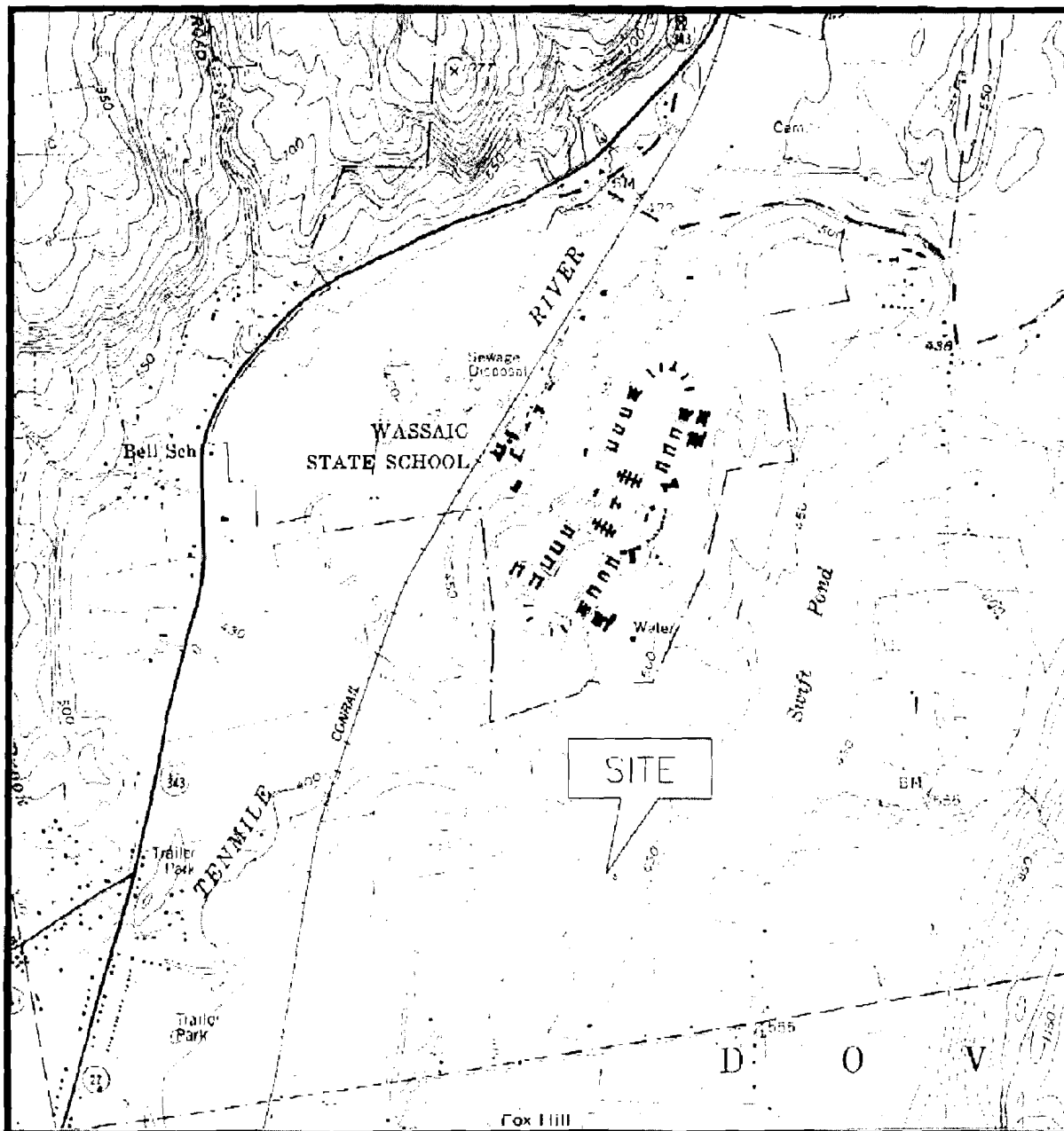
QST New York, P.C., 1999, Sarney Farm Superfund Site, Groundwater Focused Feasibility Study Sampling and Analysis Plan, Final version submitted to EPA by QST New York P.C. on February 26, 1999.

QST New York, P.C., 1998, Remedial Action Report, draft submitted to EPA Region II in August 1998.

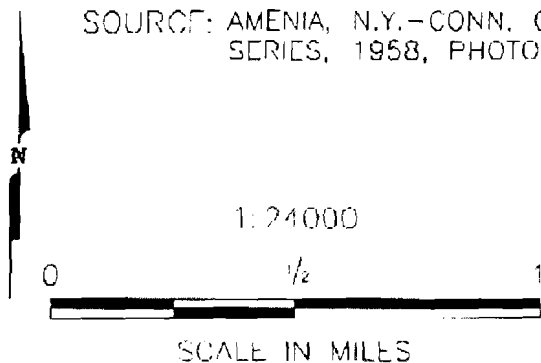
QST New York, P.C., 2001, Post-ROD Groundwater Evaluation Report, November 13, 2001.

U.S. Environmental Protection Agency, 2003, Unilateral Administrative Order, Index Number II CERCLA 96-0214 for the Sarney Farm Superfund Site.

U.S. Environmental Protection Agency, 2002, Preliminary Close Out Report for the Sarney Farm Superfund Site, October 2002.



SOURCE: AMENIA, N.Y.-CONN. QUADRANGLE, USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, 1958, PHOTOREVISED 1984.



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SARNEY FARM SUPERFUND SITE
AMENIA, NEW YORK
POST-ROD GROUNDWATER EVALUATION

FIGURE 1

SITE LOCATION MAP

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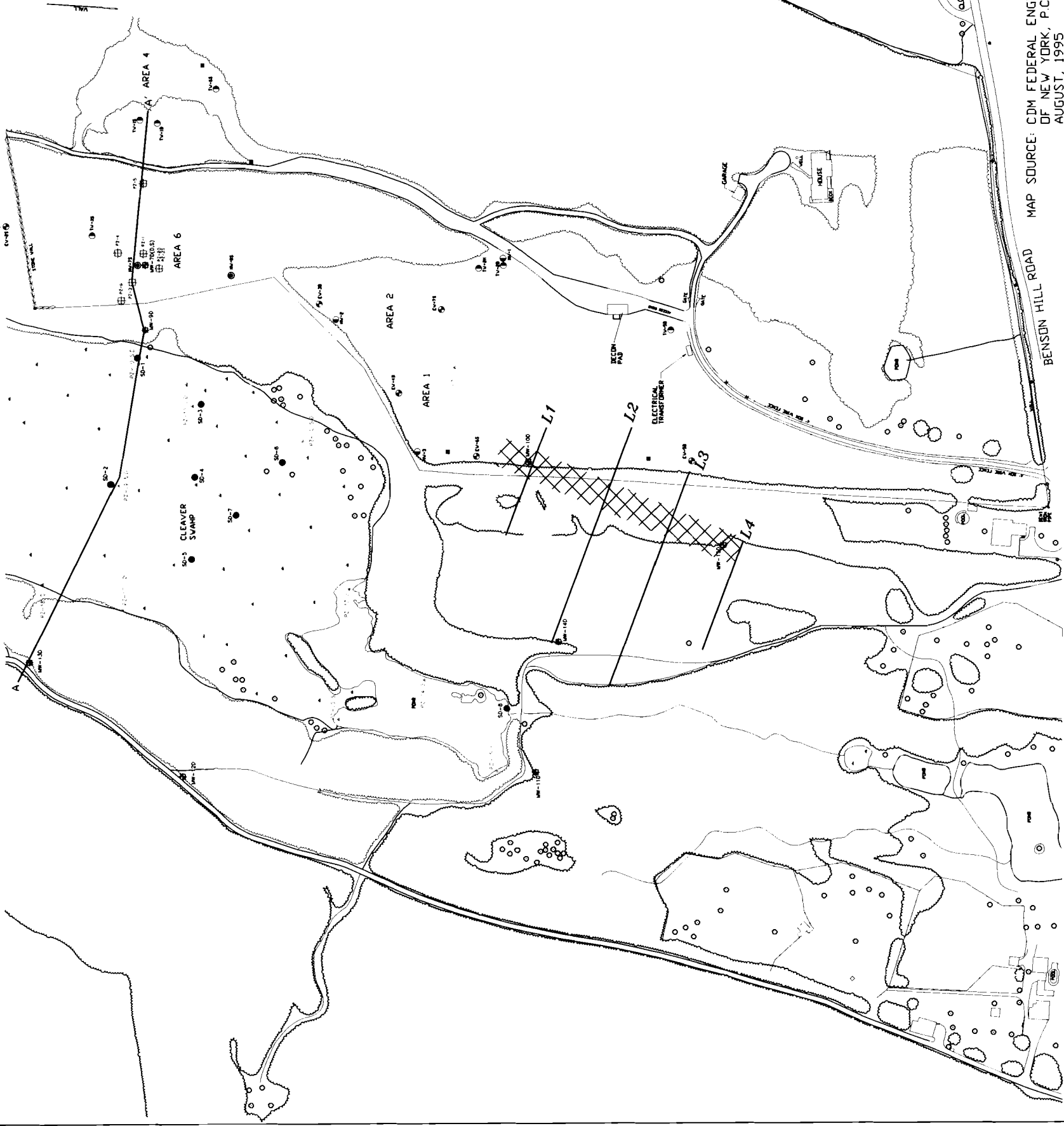
FILE NUMBER: 716472

SCALE: AS SHOWN

REVISION: 0

DRAWN BY: CBG

DATE: 3/14/01



- LEGEND:**
- VIRE FENCE
 - APPROXIMATE PROPERTY LINE
 - DEMARCATION FENCE
 - ACCESS ROAD
 - WETLAND AREA
 - WOODED AREA
 - TMS DEEP MONITORING WELL (1991)
 - TMS INTERMEDIATE DEPTH MONITORING WELL (1991)
 - TMS SHALLOW MONITORING WELL (1991)
 - CDM MONITORING WELL (1984)
 - EMASCO DEEP MONITORING WELL (1989)
 - EMASCO SHALLOW MONITORING WELL (1989)
 - CDM MONITORING WELL (1997)
 - CDM SHALLOW PIEZOMETER (1997)
 - ESE MULTI-LEVEL BEDROCK WELL
 - EXISTING BEDROCK WELL MODIFICATION
 - ESE SHALLOW PIEZOMETER
 - ESE SEDIMENT SAMPLING LOCATION (1999)
 - MONUMENT
 - GEOPHYSICAL SURVEY TRANSECT LINE
 - POSSIBLE BEDROCK FRACTURE ZONE BASED ON PHASE 2 GEOPHYSICAL SURVEY
 - CROSS-SECTION LINE (FIGURE 7)
 - A-A'



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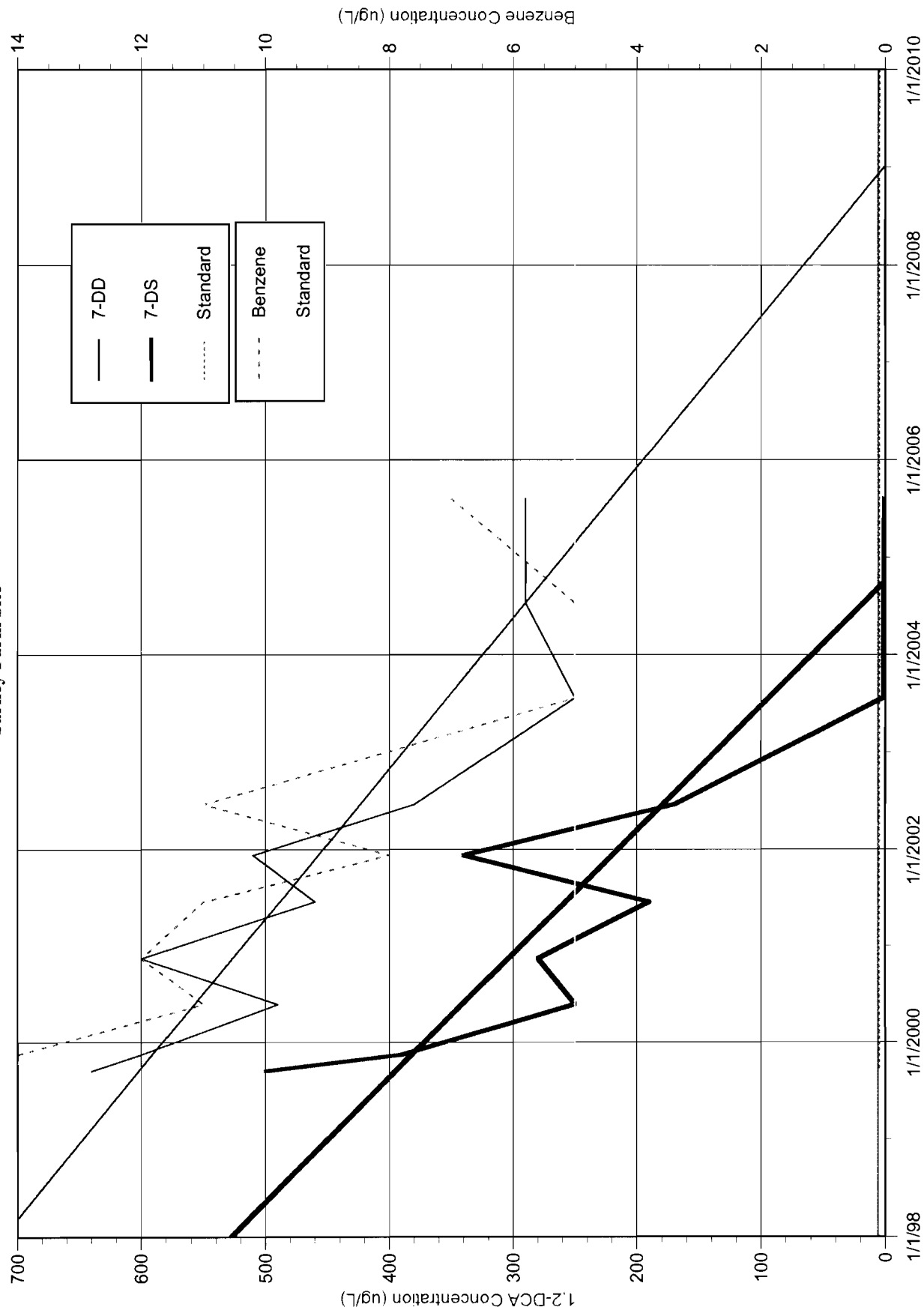
SARNEY FARM SUPERFUND SITE
AMENIA, NEW YORK
POST-ROD GROUNDWATER EVALUATION

FIGURE 2
SITE PLAN

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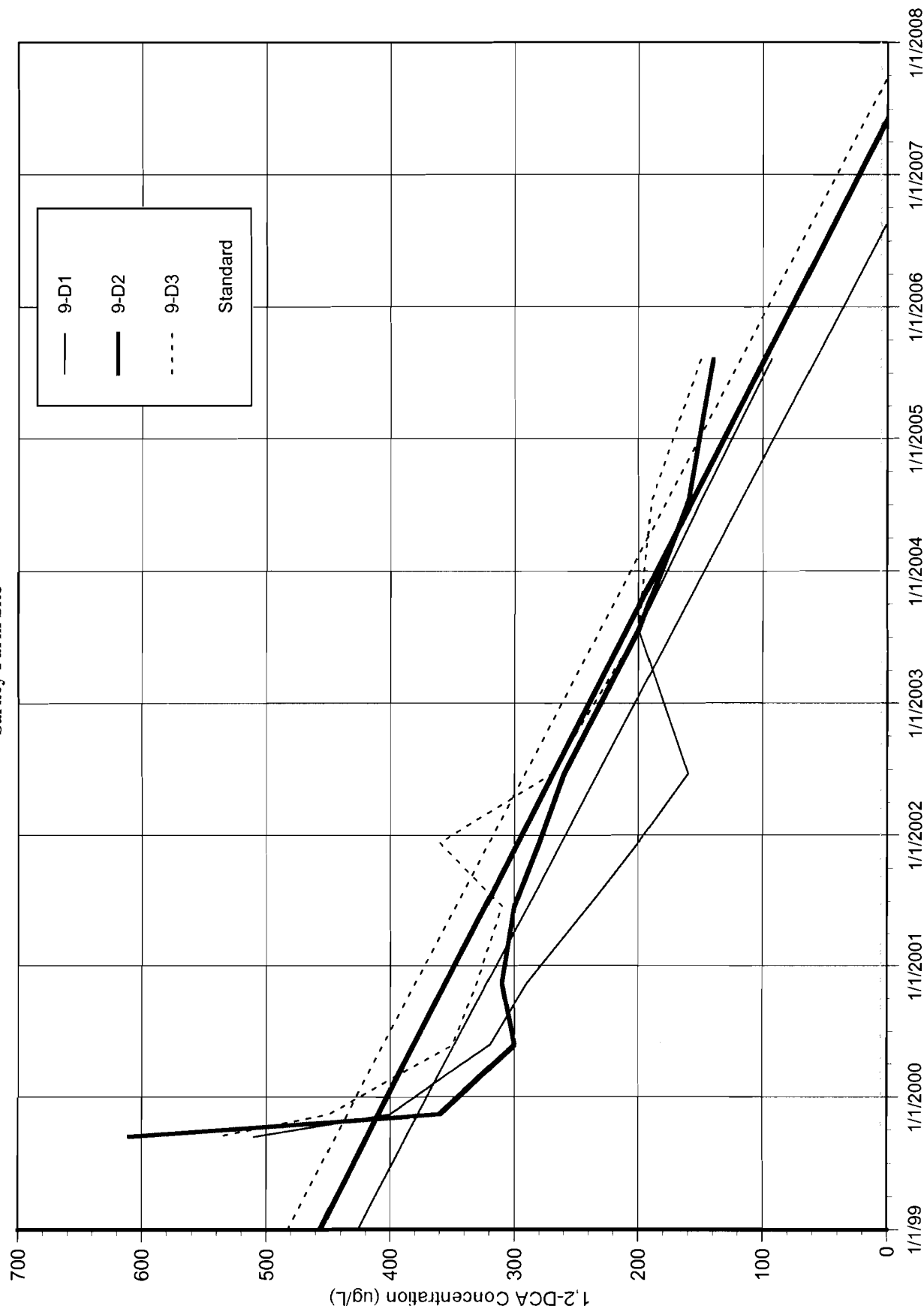
MAP SOURCE: CDM FEDERAL ENGINEERING
OF NEW YORK, P.C.
AUGUST, 1995

Figure 3
VOC in MW-7D
Sarney Farm Site



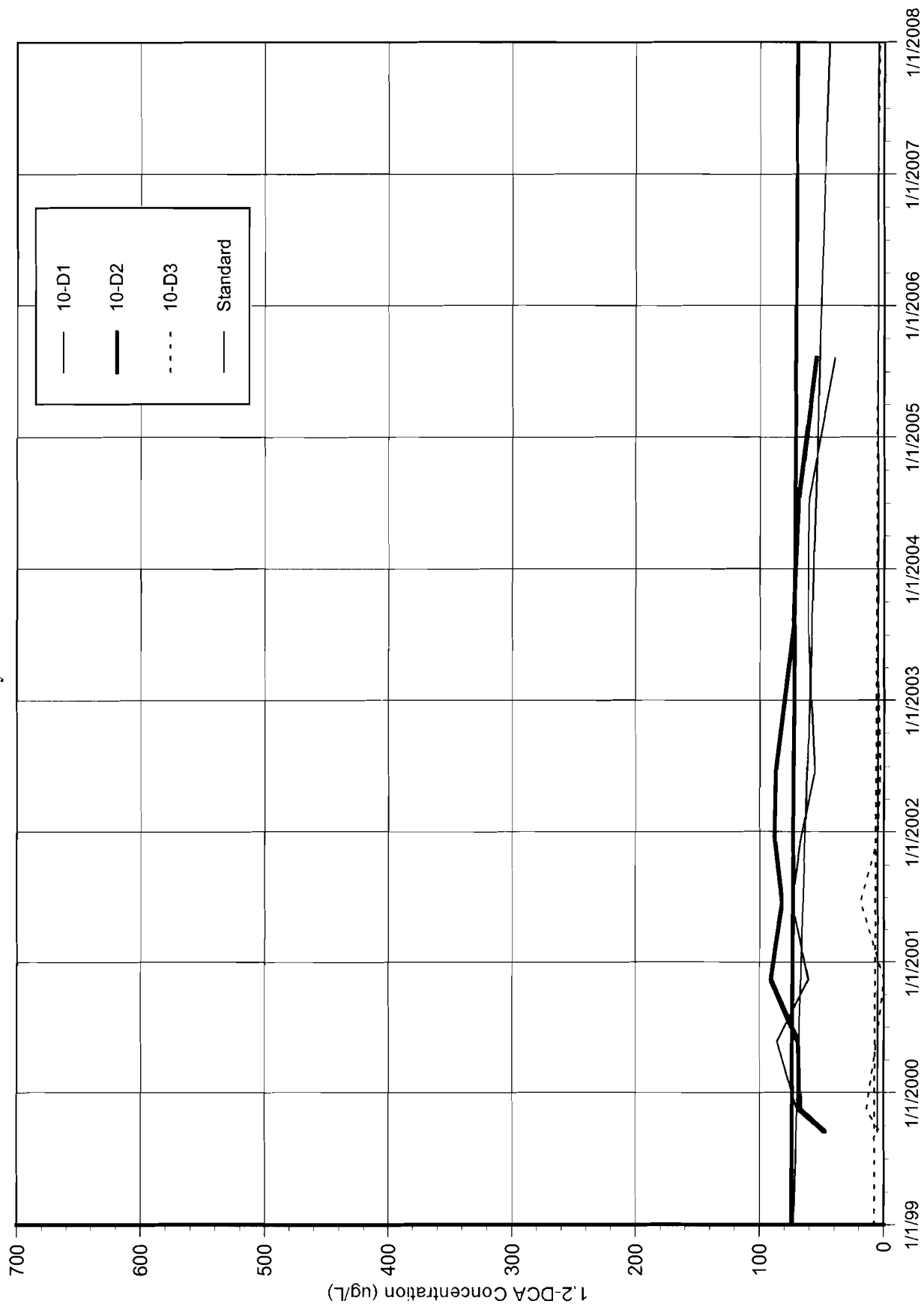
Note: Each graph presents groundwater concentrations over time for two or three wells at a given well cluster, as well as the drinking water standard and estimated time for groundwater concentrations to reach the drinking water standard.

Figure 4
VOC in MW-9D
Sarney Farm Site



Note: Each graph presents groundwater concentrations over time for two or three wells at a given well cluster, as well as the drinking water standard and estimated time for groundwater concentrations to reach the drinking water standard.

Figure 5
VOC in MW-10D
Sarney Farm Site



Note: Each graph presents groundwater concentrations over time for two or three wells at a given well cluster, as well as the drinking water standard and estimated time for groundwater concentrations to reach the drinking water standard.

Figure 6
Groundwater Elevations over Time
Sarney Farm Superfund Site
Amenia, New York

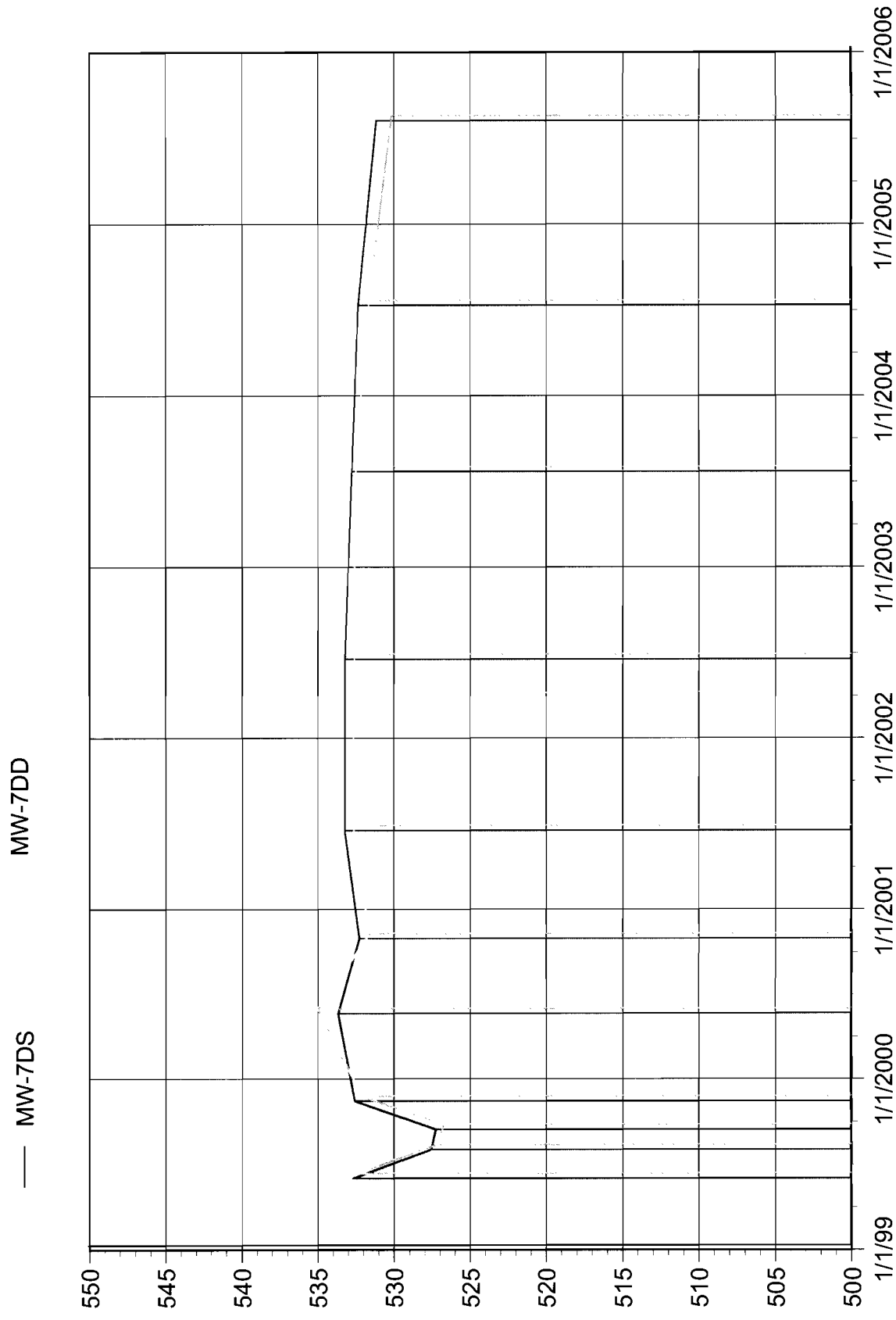


Figure 7
Groundwater Elevations over Time
Sarney Farm Superfund Site
Amenia, New York

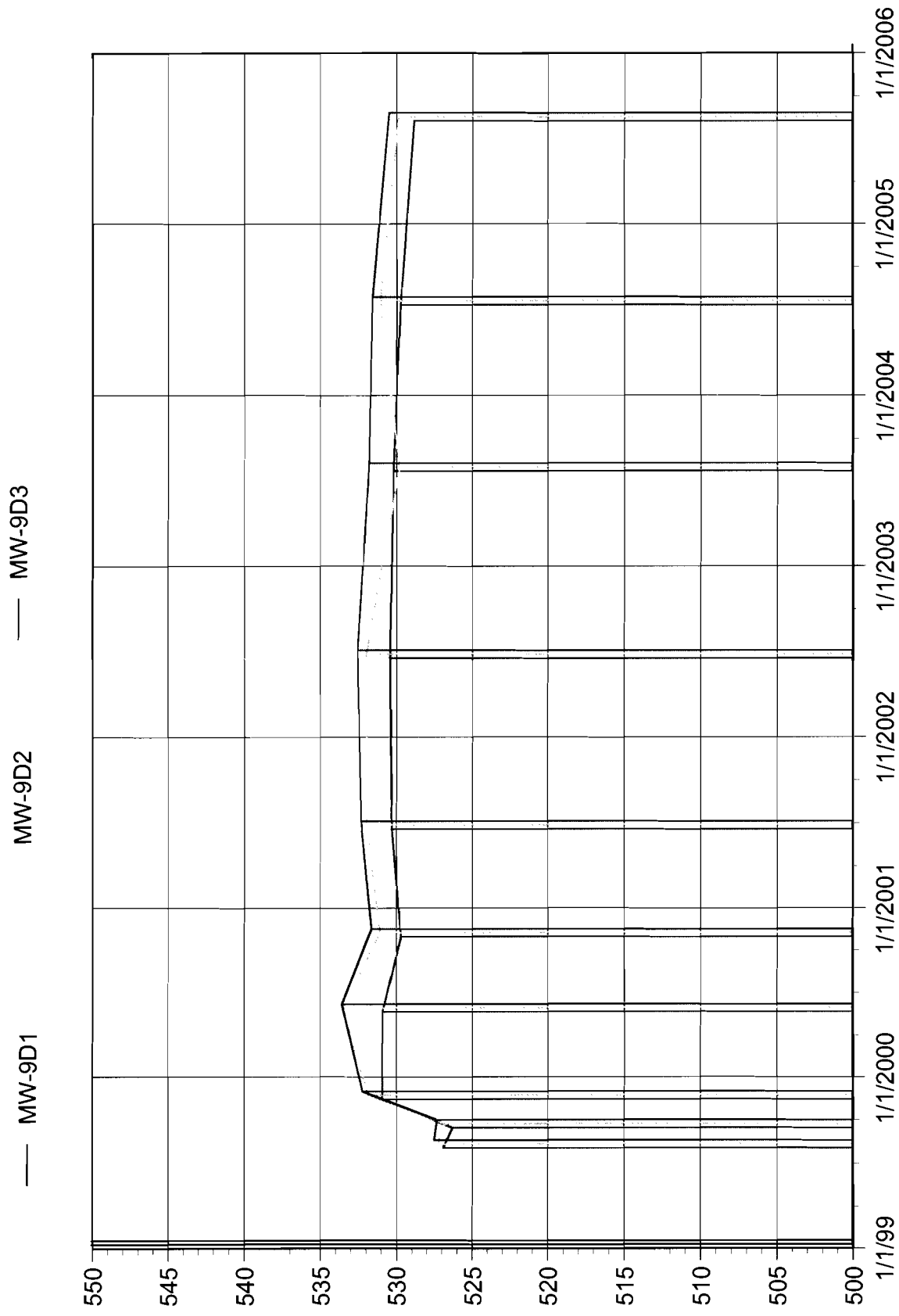


Figure 8
Groundwater Elevations over Time
Sarney Farm Superfund Site
Amenia, New York

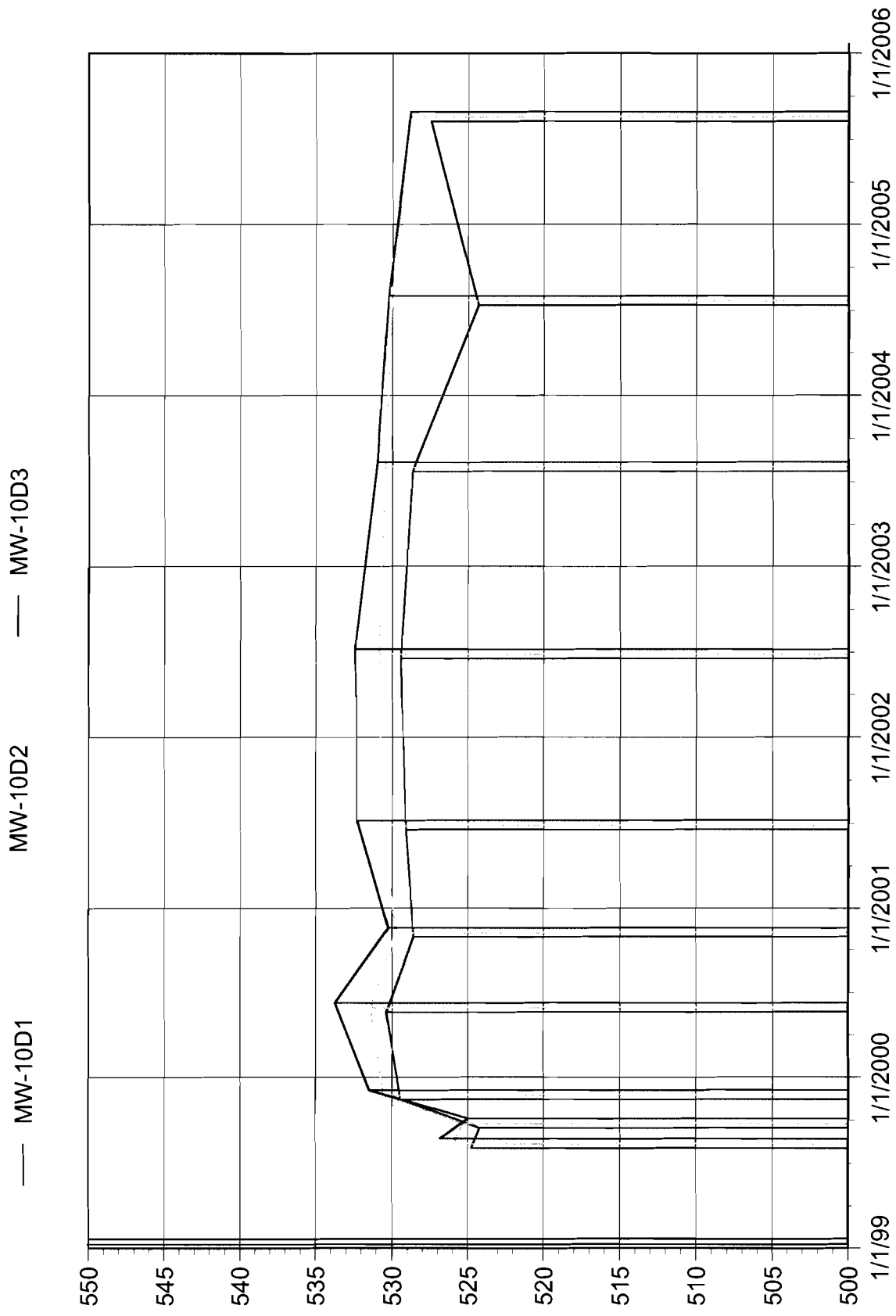


TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-7D 05/28/97 50 ft.	MW-7D 08/06/97 50 ft.	MW-7DD 08/06/97 89 ft.	MW-7D-D 9/15/1999 72 - 101 ft.	MW-7D-D-DUP 9/15/1999 72 - 101 ft.	MW-7D-D 11/16/1999 72 - 101 ft.	MW-7D-D 5/25/2000 72 - 101 ft.	MW-7D-D 11/14/2000 72 - 101 ft.	MW-7D-D-DP 11/14/2000 72 - 101 ft.
Analyte (ug/l)										
Chloromethane				9						
Vinyl Chloride	2									
Chloroethane										
Methylene Chloride		25					0.5 J			
Acetone					3 J	5 J				
Methyl Ethyl Ketone										
Carbon Disulfide										
1,1-Dichloroethene	7									
1,1-Dichloroethane		46			4 J	4 J	4.1	3 J	3 J	2 J
Chloroform										
1,2-Dichloroethane	5	6400	760	910	640 D	680 D	600 D	490	600	540
2-Butanone										
1,1,1-Trichloroethane	200									
Carbon Tetrachloride	5									
1,2-Dichloropropane	5									
Trichloroethene	5	16			2 J	3 J	3.3	2 J	3 J	3 J
Benzene	5	100	17	17	14	15	14	11	12	12
4-Methyl-2-Pentanone										
2-Hexanone										
Tetrachloroethene	5									
Toluene	1000									
Chlorobenzene										
Ethylbenzene	700									
Styrene	100									
P & M Xylenes										
O Xylene										
Xylenes (total)	10000									
1,1,2-Trichloroethane	5									
Dichlorodifluoromethane										
Trichlorofluoromethane										
cis-1,2-Dichloroethene	70				31	33	47 JD	36	41	40
trans-1,2-Dichloroethene	100	140	16	27						
N-Propylbenzene										
1,3,5-Trimethylbenzene										
1,2,4-Trimethylbenzene										
1,3-Dichlorobenzene										
1,4-Dichlorobenzene										
1,2-Dichlorobenzene										
1,2,4-Trichlorobenzene	70									
Naphthalene										
1,2,3-Trichlorobenzene										

Notes:

1997 and Sept. 1999 data have NOT been validated.
1 = Exceedance of the applicable EPA MCL
Most recent sampling events are shaded columns

Data Qualifiers:

B = Analyte detected in blank.
D = Value obtained through secondary dilution
E = Value exceeded instrument calibration range
J = Estimated
U = Analyte undetected at reported conc.

TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-7D-D 6/19/2001 72 - 101 ft.	MW-7D-DUP 6/19/2001 72 - 101 ft.	MW-7D-D 12/12/2001 72 - 101 ft.	MW-7D-DUP 12/12/2001 72 - 101 ft.	MW-7D-D 6/20/2002 72 - 101 ft.	MW-7D-DUP 6/20/2002 72 - 101 ft.	MW-7D 7/24/2003 72 - 101 ft.	MW-7D-DUP 7/24/2003 72 - 101 ft.	MW-7D 7/13/2004 72 - 101 ft.	MW-7D-DUP 7/13/2004 72 - 101 ft.	MW-7D-D 8/10/2005 72 - 101 ft.	MW-7D-D-DP 8/10/2005 72 - 101 ft.
Analyte (ug/l)													
Chloromethane													
Vinyl Chloride	2												
Chloroethane													
Methylene Chloride													
Acetone					4 J								
Methyl Ethyl Ketone													
Carbon Disulfide													
1,1-Dichloroethene	7												
1,1-Dichloroethane		3 J	3 J	2 J	2 J	3 J	3 J	2 J	1 J	1 J	1 J	1 J	1 J
Chloroform													
1,2-Dichloroethane	5	460	490	510	520	380	360	250	250	290 J	280 J	290	270
2-Butanone													
1,1,1-Trichloroethane	200												
Carbon Tetrachloride	5												
1,2-Dichloropropane	5												
Trichloroethene	5	2 J	2 J	2 J	2 J	3 J	3 J	2 J	2 J	2 J	2 J	2 J	2 J
Benzene	5	11	10	8 J	8 J	11	12	5 J	5 J			7 J	7 J
4-Methyl-2-Pentanone													
2-Hexanone													
Tetrachloroethene	5												
Toluene	1000												
Chlorobenzene													
Ethylbenzene	700												
Styrene	100												
P & M Xylenes													
O Xylene													
Xylenes (total)	10000												
1,1,2-Trichloroethane	5												
Dichlorodifluoromethane													
Trichlorofluoromethane													
cis-1,2-Dichloroethene	70	35	34	32	31	37	38	30	30	34 J	32 J	32	32
trans-1,2-Dichloroethene	100										3 J		
N-Propylbenzene													
1,3,5-Trimethylbenzene													
1,2,4-Trimethylbenzene													
1,3-Dichlorobenzene													
1,4-Dichlorobenzene													
1,2-Dichlorobenzene													
1,2,4-Trichlorobenzene	70												
Naphthalene													
1,2,3-Trichlorobenzene													

TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-7D-S 11/16/1999 39 - 72 ft.	MW-7D-S-DUP 11/16/1999 39 - 72 ft.	MW-7D-S 5/25/2000 39 - 72 ft.	MW-7D-S 11/14/2000 39 - 72 ft.	MW-7D-S 6/19/2001 39 - 72 ft.	MW-7D-S 12/12/2001 39 - 72 ft.	MW-7D-S 6/20/2002 39 - 72 ft.	MW-7D-S 7/24/2003 39 - 72 ft.	MW-7D-S 7/13/2004 39 - 72 ft.	MW-7D-S 8/10/2005 39 - 72 ft.
Analyte (ug/l)											
Chloromethane											
Vinyl Chloride	2										
Chloroethane											
Methylene Chloride											
Acetone							3 J				
Methyl Ethyl Ketone											
Carbon Disulfide											
1,1-Dichloroethene	7										
1,1-Dichloroethane		3.6	3.6	6 J	5 J	4 J	3 J	5 J		2 J	
Chloroform											
1,2-Dichloroethane	5	390 D	410 D	250	280	190	340	170	2 J	2 J	1 J
2-Butanone											
1,1,1-Trichloroethane	200										
Carbon Tetrachloride	5										
1,2-Dichloropropane	5										
Trichloroethene	5	4.6	4	4 J	2 J	1 J	2 J	2 J		1 J	
Benzene	5	12	10	12	12	9 J D	8 J	9 J			
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene	5										
Toluene	1000										
Chlorobenzene											
Ethylbenzene	700										
Styrene	100										
P & M Xylenes											
O Xylene											
Xylenes (total)	10000										
1,1,2-Trichloroethane	5										
Dichlorodifluoromethane											
Trichlorofluoromethane											
cis-1,2-Dichloroethene	70	45 JD	44 JD	31	16	9 J	19 J	13	3 J	11 J	4 J
trans-1,2-Dichloroethene	100										
N-Propylbenzene											
1,3,5-Trimethylbenzene											
1,2,4-Trimethylbenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
1,2-Dichlorobenzene											
1,2,4-Trichlorobenzene	70										
Naphthalene											
1,2,3-Trichlorobenzene											

TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-9D1 09/15/99 102 - 147 ft.	MW-9D1 11/15/99 102 - 147 ft.	MW-9D1 05/24/00 102 - 147 ft.	MW-9D1 11/14/00 102 - 147 ft.	MW-9D1 06/19/01 102 - 147 ft.	MW-9D1 12/12/01 102 - 147 ft.	MW-9D1 06/20/02 102 - 147 ft.	MW-9D1 07/24/03 102 - 147 ft.	MW-9D1 07/13/04 102 - 147 ft.	MW-9D1 08/10/05 102 - 147 ft.
Analyte (ug/l)											
Chloromethane											
Vinyl Chloride	2										
Chloroethane											
Methylene Chloride		2 J	1.1 J								
Acetone		5 J					3 J				
Methyl Ethyl Ketone											
Carbon Disulfide											
1,1-Dichloroethene	7										
1,1-Dichloroethane		4 J	3.3	2 J	2 J	1 J	1 J	2 J	1 J	0.9 J	
Chloroform											2 J
1,2-Dichloroethane	5	510 D	400 D	320	290	240	200	160	200	150 J	93
2-Butanone											
1,1,1-Trichloroethane	200										
Carbon Tetrachloride	5										
1,2-Dichloropropane	5										
Trichloroethene	5	3 J	2.8	1 J	1 J		1 J	2 J	2 J	2 J	
Benzene	5	17	15	10 J	9 J	8 J	7 J	7 J	7 J		4 J
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene	5										
Toluene	1000										
Chlorobenzene											
Ethylbenzene	700										
Styrene	100										
P & M Xylenes											
O Xylene											
Xylenes (total)	10000										
1,1,2-Trichloroethane	5										
Dichlorodifluoromethane											
Trichlorofluoromethane											
cis-1,2-Dichloroethene	70		24	16	13	10	13	13	16	12 J	7 J
trans-1,2-Dichloroethene	100	23									
N-Propylbenzene											
1,3,5-Trimethylbenzene											
1,2,4-Trimethylbenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
1,2-Dichlorobenzene											
1,2,4-Trichlorobenzene	70										
Naphthalene											
1,2,3-Trichlorobenzene											

TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-9D2 09/15/99 55 - 102 ft.	MW-9D2 11/15/99 55 - 102 ft.	MW-9D2 05/24/00 55 - 102 ft.	MW-9D2 11/14/00 55 - 102 ft.	MW-9D2 06/19/01 55 - 102 ft.	MW-9D2 12/12/01 55 - 102 ft.	MW-9D2 06/20/02 55 - 102 ft.	MW-9D2 07/24/03 55 - 102 ft.	MW-9D2 07/13/04 55 - 102 ft.	MW-9D2 08/10/05 55 - 102 ft.
Analyte (ug/l)											
Chloromethane											
Vinyl Chloride	2										
Chloroethane											
Methylene Chloride											
Acetone		3 J					3 J				
Methyl Ethyl Ketone											
Carbon Disulfide											
1,1-Dichloroethene	7										
1,1-Dichloroethane		5 J	5.3	3 J	3 J	3 J	2 J	2 J	2 J	1 J	1 J
Chloroform											
1,2-Dichloroethane	5	610 D	360 D	300	310	300	280	260	200	160 J	140
2-Butanone											
1,1,1-Trichloroethane	200		1.6								
Carbon Tetrachloride	5										
1,2-Dichloropropane	5										
Trichloroethene	5	5 J	9.3	2 J	8 J	4 J	6 J	7 J	3 J	3 J	5 J
Benzene	5	12	11	7 J	7 J	8 J	6 J	6 J	2 J		
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene	5					0.5					
Toluene	1000										
Chlorobenzene											
Ethylbenzene	700										
Styrene	100										
P & M Xylenes											
O Xylene											
Xylenes (total)	10000										
1,1,2-Trichloroethane	5										
Dichlorodifluoromethane											
Trichlorofluoromethane											
cis-1,2-Dichloroethene	70	30	38 D	18	33	27	28	26	19	15 J	16
trans-1,2-Dichloroethene	100										
N-Propylbenzene											
1,3,5-Trimethylbenzene											
1,2,4-Trimethylbenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
1,2-Dichlorobenzene											
1,2,4-Trichlorobenzene	70										
Naphthalene											
1,2,3-Trichlorobenzene											

TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-9D3 09/15/99 38 - 55 ft.	MW-9D3 11/15/99 38 - 55 ft.	MW-9D3 05/24/00 38 - 55 ft.	MW-9D3 11/14/00 38 - 55 ft.	MW-9D3 06/19/01 38 - 55 ft.	MW-9D3 12/12/01 38 - 55 ft.	MW-9D3 06/20/02 38 - 55 ft.	MW-9D3 07/24/03 38 - 55 ft.	MW-9D3 07/13/04 38 - 55 ft.	MW-9D3 08/10/05 38 - 55 ft.
Analyte (ug/l)											
Chloromethane											
Vinyl Chloride	2										
Chloroethane											
Methylene Chloride											
Acetone		4 J									
Methyl Ethyl Ketone											
Carbon Disulfide											
1,1-Dichloroethene	7		4.5								
1,1-Dichloroethane		4 J		3 J	2 J	2 J	2 J	2 J	2 J	1 J	
Chloroform											
1,2-Dichloroethane	5	540 D	450 D	350	330	310	360	270	200	190 J	150
2-Butanone											
1,1,1-Trichloroethane	200		1.5	1 J							
Carbon Tetrachloride	5										
1,2-Dichloropropane	5										
Trichloroethene	5	4 J	9.1	8 J	7 J	8 J	7 J	8 J	6 J	5 J	5 J
Benzene	5	10	9.3	8 J	7 J	7 J	6 J	5 J	2 J		
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene	5							0.9 J			
Toluene	1000										
Chlorobenzene											
Ethylbenzene	700										
Styrene	100										
P & M Xylenes											
O Xylene											
Xylenes (total)	10000										
1,1,2-Trichloroethane	5										
Dichlorodifluoromethane											
Trichlorofluoromethane											
cis-1,2-Dichloroethene	70	24	39 JD	37	33	32	32	27	21	18 J	15
trans-1,2-Dichloroethene	100										
N-Propylbenzene											
1,3,5-Trimethylbenzene											
1,2,4-Trimethylbenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
1,2-Dichlorobenzene											
1,2,4-Trichlorobenzene	70										
Naphthalene											
1,2,3-Trichlorobenzene											

TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-10D1 09/15/99 110 - 144 ft.	MW-10D1 11/15/99 110 - 144 ft.	MW-10D1 05/24/00 110 - 144 ft.	MW-10D1 11/14/00 110 - 144 ft.	MW-10D1 06/19/01 110 - 144 ft.	MW-10D1 12/12/01 110 - 144 ft.	MW-10D1 06/19/02 110 - 144 ft.	MW-10D1 07/24/03 110 - 144 ft.	MW-10D1 07/13/04 110 - 144 ft.	MW-10D1 08/10/05 110 - 144 ft.
Analyte (ug/l)											
Chloromethane											
Vinyl Chloride	2										
Chloroethane											
Methylene Chloride											
Acetone		6 J									
Methyl Ethyl Ketone											
Carbon Disulfide											
1,1-Dichloroethene	7										
1,1-Dichloroethane											
Chloroform		1 J	0.9 J								
1,2-Dichloroethane	5	47	70 D	86	61	74	67	56	62	61 J	40
2-Butanone											
1,1,1-Trichloroethane	200										
Carbon Tetrachloride	5										
1,2-Dichloropropane	5										
Trichloroethene	5										
Benzene	5										
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene	5										
Toluene	1000										
Chlorobenzene											
Ethylbenzene	700										
Styrene	100										
P & M Xylenes											
O Xylene											
Xylenes (total)	10000										
1,1,2-Trichloroethane	5										
Dichlorodifluoromethane											
Trichlorofluoromethane											
cis-1,2-Dichloroethene	70	1 J	2	1 J	1 J	1 J	2 J	2 J	2 J	2 J	1 J
trans-1,2-Dichloroethene	100										
N-Propylbenzene											
1,3,5-Trimethylbenzene											
1,2,4-Trimethylbenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
1,2-Dichlorobenzene											
1,2,4-Trichlorobenzene	70										
Naphthalene											
1,2,3-Trichlorobenzene											

TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-10D2 09/15/99 68 - 110 ft.	MW-10D2 11/15/99 68 - 110 ft.	MW-10D2 05/24/00 68 - 110 ft.	MW-10D2 11/14/00 68 - 110 ft.	MW-10D2 06/19/01 68 - 110 ft.	MW-10D2 12/12/01 68 - 110 ft.	MW-10D2 06/19/02 68 - 110 ft.	MW-10D2 07/24/03 68 - 110 ft.	MW-10D2 07/13/04 68 - 110 ft.	MW-10D2 08/10/05 68 - 110 ft.
Analyte (ug/l)											
Chloromethane											
Vinyl Chloride	2						2 J				
Chloroethane											
Methylene Chloride											
Acetone		3 J									
Methyl Ethyl Ketone											
Carbon Disulfide											
1,1-Dichloroethene	7										
1,1-Dichloroethane											
Chloroform											
1,2-Dichloroethane	5	48	67 D	69	91	82	88	87	73	69 J	55
2-Butanone											
1,1,1-Trichloroethane	200										
Carbon Tetrachloride	5										
1,2-Dichloropropane	5										
Trichloroethene	5										
Benzene	5										
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene	5										
Toluene	1000										
Chlorobenzene											
Ethylbenzene	700										
Styrene	100										
P & M Xylenes											
O Xylene											
Xylenes (total)	10000										
1,1,2-Trichloroethane	5										
Dichlorodifluoromethane											
Trichlorofluoromethane											
cis-1,2-Dichloroethene	70	1 J	2.3		1 J		3 J	3 J	2 J	1 J	1 J
trans-1,2-Dichloroethene	100										
N-Propylbenzene											
1,3,5-Trimethylbenzene											
1,2,4-Trimethylbenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
1,2-Dichlorobenzene											
1,2,4-Trichlorobenzene	70										
Naphthalene											
1,2,3-Trichlorobenzene											

TABLE 1
VOC IN BEDROCK WELLS
1997 through 2005 Sampling Events
Sarney Farm Superfund Site
Amenia, New York

Well No. Date Sampled Sample/Zone Depth	EPA MCL ug/L	MW-10D3 09/15/99 40 - 68 ft.	MW-10D3 11/15/99 40 - 68 ft.	MW-10D3 05/24/00 40 - 68 ft.	MW-10D3 11/14/00 40 - 68 ft.	MW-10D3 06/19/01 40 - 68 ft.	MW-10D3 12/12/01 40 - 68 ft.	MW-10D3 06/19/02 40 - 68 ft.	MW-10D3 07/24/03 40 - 68 ft.	MW-10D3 07/13/04 40 - 68 ft.	MW-10D3 08/10/05 40 - 68 ft.
Analyte (ug/l)											
Chloromethane								3 J			
Vinyl Chloride	2										
Chloroethane											
Methylene Chloride											
Acetone		3 J									
Methyl Ethyl Ketone											
Carbon Disulfide											
1,1-Dichloroethene	7										
1,1-Dichloroethane											
Chloroform											
1,2-Dichloroethane	5	3 J	14	6 J		19	5 J	3 J	6 J	6 J	5 J
2-Butanone											
1,1,1-Trichloroethane	200										
Carbon Tetrachloride	5										
1,2-Dichloropropane	5										
Trichloroethene	5	1 J			1 J						
Benzene	5										
4-Methyl-2-Pentanone											
2-Hexanone											
Tetrachloroethene	5										
Toluene	1000										
Chlorobenzene											
Ethylbenzene	700										
Styrene	100										
P & M Xylenes											
O Xylene											
Xylenes (total)	10000										
1,1,2-Trichloroethane	5										
Dichlorodifluoromethane											
Trichlorofluoromethane											
cis-1,2-Dichloroethene	70		0.8 J								
trans-1,2-Dichloroethene	100										
N-Propylbenzene											
1,3,5-Trimethylbenzene											
1,2,4-Trimethylbenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
1,2-Dichlorobenzene											
1,2,4-Trichlorobenzene	70										
Naphthalene											
1,2,3-Trichlorobenzene											

MACTEC Engineering & Consulting, Inc.

Merrimack, NH

Project: 3640030018

STL Lab # 251041

Matrix: Water

1 of 2

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550

Tel: 845 562 0890 Fax: 845 562 0841
www.stl-inc.com

09/16/2005

MACTEC Engineering and Consulting, Inc.
32 Daniel Webster Hwy
Suite 25
Merrimack, NH 03054

Attn: Lee Gustafson

SUBJECT: Case Narrative, 3640030018,
STL Job Number 251041.

Dear Lee Gustafson:

Enclosed are the analytical results for the 3640030018 project. The samples were received on 08/12/2005. The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements.

Any exceptions to NELAP requirements are noted in the attached case narrative. The case narrative is an integral part of this report.

I certify that this 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 has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

STL NEWBURGH



Renee M. Cusack
Laboratory Manager

CASE NARRATIVE

Client: MACTEC

Date: 09/15/05

STL Lab No.: 251041

Page 1 of 1

Volatile Organics

95.1

Sample Dilution

The following sample was diluted as indicated due to target compounds that exceed the linear calibration range:

MW7D-DL(251041-03DL): 10x

MW7D-D/DPDL(251041-04DL): 10x

Calibration

Please note that 1,1,2,2-tetrachloroethane in the initial calibration and in the continuing calibration standard analyzed on 08/19/05 does not meet the minimum response factor (RF) for all levels of the calibration. Bromoform does not meet the minimum RF in the first level of the initial calibration.

The percent difference of the following compounds in the continuing calibration standard analyzed on 08/18/05 is outside of the acceptable control limits.

As per method, the mid point standard was used as the continuing calibration standard since all initial calibration levels and samples were run within 12 hours.

95.4

VLCS

Please note that vinyl chloride was inadvertently omitted from the VLCS010 spiking solution.

Calibration

As per method, the mid point standard was used as the continuing calibration standard since all initial calibration levels and samples were run within 12 hours.

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SAMPLE INFORMATION

Date: 09/16/2005

Job Number.: 251041

Customer.... MACTEC Engineering and Consulting, Inc.

Attn.....: Lee Gustafson

Project Number.....: 20000604

Customer Project ID....: 3640030018

Project Description....: Sarney Farm

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
251041-1	Trip Blank	Trip Blank	08/10/2005	00:00	08/12/2005	09:45
251041-2	MW7D-D/FB	Water	08/10/2005	12:00	08/12/2005	09:45
251041-3	MW7D-D	Water	08/10/2005	12:50	08/12/2005	09:45
251041-4	MW7D-D/DP	Water	08/10/2005	12:50	08/12/2005	09:45
251041-5	MW7D-S	Water	08/10/2005	13:25	08/12/2005	09:45
251041-6	MW9D-1	Water	08/10/2005	13:52	08/12/2005	09:45
251041-7	MW9D-2	Water	08/10/2005	14:02	08/12/2005	09:45
251041-8	MW9D-3	Water	08/10/2005	14:15	08/12/2005	09:45
251041-9	MW10D-1	Water	08/10/2005	15:00	08/12/2005	09:45
251041-10	MW10D-2	Water	08/10/2005	15:10	08/12/2005	09:45
251041-11	MW10D-3	Water	08/10/2005	15:20	08/12/2005	09:45
251041-12	Sarney	Pot. Water	08/10/2005	15:53	08/12/2005	09:45
251041-13	Emerson	Pot. Water	08/10/2005	16:10	08/12/2005	09:45
251041-14	Hurlbert	Pot. Water	08/10/2005	16:30	08/12/2005	09:45
251041-15	Taylor	Pot. Water	08/10/2005	16:52	08/12/2005	09:45
251041-16	151 BHR	Pot. Water	08/10/2005	17:10	08/12/2005	09:45

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STL Newburgh is a part of Severn Trent Laboratories, Inc.



NYSDOH 10142

NJDEP 73015

CTDQHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY CHRONICLE

Job Number: 251041

Date: 09/16/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc.

PROJECT: 3640030018

ATTN: Lee Gustafson

Lab ID: 251041-1	Client ID: Trip Blank	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
NYSASP 95.4	CLP Volatile Organic Analysis	1			
NYSASP 95.4	CLP Volatile Organic Analysis	1	96837		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/17/2005	0000
				09/01/2005	0000
Lab ID: 251041-2	Client ID: MW7D-D/FB	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000
				08/18/2005	1854
				09/01/2005	0000
Lab ID: 251041-3	Client ID: MW7D-D	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292		
NYSASP 95.1	CLP Volatile Organic Analysis	2	97292		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000
				08/18/2005	1924
				08/19/2005	1442
				09/01/2005	0000
Lab ID: 251041-4	Client ID: MW7D-D/DP	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292		
NYSASP 95.1	CLP Volatile Organic Analysis	2	97292		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000
				08/18/2005	1953
				08/19/2005	1518
				09/01/2005	0000
Lab ID: 251041-5	Client ID: MW7D-S	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000
				08/18/2005	2023
				09/01/2005	0000
Lab ID: 251041-6	Client ID: MW9D-1	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000
				08/18/2005	2053
				09/01/2005	0000
Lab ID: 251041-7	Client ID: MW9D-2	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000
				08/19/2005	1554
				09/01/2005	0000
Lab ID: 251041-8	Client ID: MW9D-3	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000
				08/18/2005	2152
				09/01/2005	0000
Lab ID: 251041-9	Client ID: MW10D-1	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292		
QA Services	Quality Assurance Services	1	96836		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000
				08/18/2005	2222
				09/01/2005	0000
Lab ID: 251041-10	Client ID: MW10D-2	Date Recvd: 08/12/2005	Sample Date: 08/10/2005		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)
SW846 5030(5mL	5030 5 mL Purge Prep	1	96197		
				DATE/TIME ANALYZED	DILUTION
				08/23/2005	0000

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NJDEP 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 66-378

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STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY CHRONICLE

Job Number: 251041

Date: 09/16/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc.

PROJECT: 3640030018

ATTN: Lee Gustafson

Lab ID	Client ID	Date Recvd	Sample Date	Method	Description	Run#	Batch#	Prep Bt	#(S)	Date/Time Analyzed	Dilution
251041-10	MW10D-2	08/12/2005	08/10/2005	NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 2252	1
	QA Services				Quality Assurance Services	1	96836			09/01/2005 0000	
251041-11	MW10D-3	08/12/2005	08/10/2005	SW846 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000	
	QA Services				Quality Assurance Services	1	97292			08/18/2005 2321	1
						1	96836			09/01/2005 0000	
251041-12	Sarney	08/12/2005	08/10/2005	NYSASP 95.4	CLP Volatile Organic Analysis	1					
	QA Services				Quality Assurance Services	1	96837			08/17/2005 0000	
						1	96836			09/01/2005 0000	
251041-13	Emerson	08/12/2005	08/10/2005	NYSASP 95.4	CLP Volatile Organic Analysis	1					
	QA Services				Quality Assurance Services	1	96837			08/17/2005 0000	
						1	96836			09/01/2005 0000	
251041-14	Hurlbert	08/12/2005	08/10/2005	NYSASP 95.4	CLP Volatile Organic Analysis	1					
	QA Services				Quality Assurance Services	1	96837			08/17/2005 0000	
						1	96836			09/01/2005 0000	
251041-15	Taylor	08/12/2005	08/10/2005	NYSASP 95.4	CLP Volatile Organic Analysis	1					
	QA Services				Quality Assurance Services	1	96837			08/18/2005 0000	
						1	96836			09/01/2005 0000	
251041-16	151 BHR	08/12/2005	08/10/2005	NYSASP 95.4	CLP Volatile Organic Analysis	1					
	QA Services				Quality Assurance Services	1	96837			08/18/2005 0000	
						1	96836			09/01/2005 0000	

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NYSDOH 10142

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Newburgh, NY 12550
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Fax (845) 562-0841

THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater",
EPA-600/4-79-020, March 1983.

"Test Methods for Evaluating Solid Waste", USEPA-SW846, Third
Edition, September 1986 with all current revisions.

Federal Register, V.50 No.3, January 4, 1985.

Federal Register, V.49, No. 209, October 26, 1984.

"Methods for the Determination of Organic Compounds in Drinking Water
EPA/600/4-88/039, December 1988.

Volatile Organic Compounds in Water by Purge and Trap Capillary
Column Gas Chromatography With Photoionization and Electrolytic
Conductivity Detectors in Series, EMSL, Cincinnati, Ohio, 45268,
Revision 2.0 (1989).

EPA Method for the Determination of Gasoline Range Organics, Draft,
REV. 5, 2/5/92.

"New York State Department of Environmental Conservation Analytical
Services Protocol, Vol. 1, October 1995.

USEPA CLP SOW for Organics Analysis Low Concentration Water

USEPA CLP SOW for Organics Analysis Multi-Media, Multi-Concentration



CHAIN OF CUSTODY

1012

315 Fullerton Avenue
Newburgh, NY 12550
TEL (845) 562-0890
FAX (845) 562-0841

CUSTOMER NAME
MACTEC, Inc.

ADDRESS
32 Daniel Webster Hwy, Ste. 25

CITY, STATE, ZIP
Merrimack, NH 03054

NAME OF CONTACT
Lee Gustafson PHONE NO.
603-889-3737

PROJECT LOCATION
Amenia, NY

PROJECT NUMBER / PO NO
3640030018

REPORT TYPE STANDARD ☐ ISRA ☐ NJ REG ☐ NYASP A ☐ B ☐ CLP ☒ OTHER _____	TURNAROUND ☒ NORMAL 2 weeks or less ☐ QUICK _____ ☐ VERBAL _____	REPORT # (Lab Use Only) 251041
Matrix DW = DRINKING WATER S = SOIL O = OIL WW = WASTE WATER SL = SLUDGE GW = GROUND WATER		SAMPLE TEMP. 4/0 C SAMPLE REC'D ON ICE Y ☐ N ☐ pH CHECK Y ☐ N ☐ CHLORINE (RESIDUAL) 1 REVIEWED BY: 317
NY PUBLIC WATER SUPPLIES		
SOURCE ID _____		
ELRP TYPE _____		
FEDERAL ID _____		

NOTE: SAMPLE TEMPERATURE UPON RECEIPT MUST BE 4° ± 2°C.

STL #	SAMPLING DATE	TIME AM PM	COMP	GRAB	MATRIX	CLIENT I.D.	Total Number of Containers	40ml Glass HCL	Liter Amber HCL	250ml Amber Sulfuric	Liter Amber Organic Washed	250ml Plastic Nitric Acid	250ml Plastic Sodium Hydroxide	Liter Plastic	Liter Plastic Sulfuric Acid	250ml Plastic	125ml Plastic Silicic	8 oz. Soil	2 oz. Outpak	250ml Plastic NaOH / Zn ACC	ANALYSIS REQUESTED
1	8/10/05				DI	Trip blank	3	3													VOC x 95.4
2		1200	X		GW	MW 7D-D/FB	3	3													VOC x 95.1
3		1250				MW 7D-D	9	9													
4		1250				MW 7D-D/DP	3	3													
5		1325				MW 7D-S	3	3													
6		1352				MW 9D-1	3	3													
7		1402				MW 9D-2	3	3													
8		1415				MW 9D-3	3	3													
9		1500				MW 10D-1	3	3													
10		1510				MW 10D-2	3	3													
11		1520				MW 10D-3	3	3													
12		1553			DW	SARNEY	5	5													VOC x 95.4

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECT TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING

RELINQUISHED BY [Signature]	COMPANY MACTEC	DATE 8/11/05	TIME 1230	RECEIVED BY [Signature]	COMPANY [Signature]	DATE 8/12/05	TIME 0945
SAMPLED BY [Signature]	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

COMMENTS **Please report cis & trans 1,2-DCE separately. Use extra volume from MW 7D-D for MS/MSD.**



2 of 2.

315 Fullerton Avenue
Newburgh, NY 12550
TEL (845) 562-0890
FAX (845) 562-0841

CUSTOMER NAME MACTEC, Inc.	
ADDRESS 32 Daniel Webster Hwy, Ste. 25	
CITY, STATE, ZIP Merrimack, NH 03054 603-849-3737	
NAME OF CONTACT Lee Gustafson	PHONE NO.
PROJECT LOCATION Amherst, NY	
PROJECT NUMBER / PO NO. 3640030018	

REPORT TYPE	TURNAROUND
STANDARD ☐ ISRA ☐	☒ NORMAL <u>2 weeks or less</u>
NJ REG ☐	☐ QUICK _____
NYASP A ☐ B ☐ CLP ☒	☐ VERBAL _____
OTHER _____	

REPORT # (Lab Use Only)

251041

SAMPLE TEMP 4.0 °C

SAMPLE REC'D ON ICE Y / N

PH CHECK Y / N

CHLORINE (RESIDUAL) Y

REVIEWED BY [Signature]

NY PUBLIC WATER SUPPLIES

SOURCE ID _____

ELRP TYPE _____

FEDERAL ID _____

**NOTE: SAMPLE TEMPERATURE UPON
RECEIPT MUST BE $4^{\circ} \pm 2^{\circ}\text{C}$.**

[illegible]

SAMPLES SUBMITTED FOR ANALYSIS WILL BE SUBJECTED TO THE STL TERMS AND CONDITIONS OF SALE (SHORT FORM) UNLESS ALTERNATE TERMS ARE AGREED IN WRITING

RELINQUISHED BY <i>Cejun</i>	COMPANY MACTEC	DATE 8/11/05	TIME 1230	RECEIVED BY	COMPANY	DATE	TIME
SAMPLED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE 8/11/05	TIME 0845

COMMENTS please report cis & trans 1,2-DCE separately.

DATA REPORTING QUALIFIERS

Data qualifiers are used in the analytical report for organics and inorganics. The qualifiers are equivalent to those used by the USEPA in its Contract Laboratory Program.

ORGANIC QUALIFIERS

- U - Indicates that the compound was analyzed for but not detected. The sample detection limit is corrected for dilution and percent moisture. This detection limit is not necessarily the instrument detection limit.
- J - Indicates an estimated value. This qualifier is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria and the result is less than the specified detection limit but greater than zero.
- B - Indicates that the analyte was found in both the sample and its associated laboratory blank. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- C - This qualifier applies to pesticide parameters where the identification has been confirmed by gas chromatography/mass spectrometry.
- E - This qualifier indicates compounds whose concentrations exceed the calibration range of the instrument for the specific analysis.
- D - Indicates all compounds identified in an analysis at a secondary dilution factor.
- DL - This suffix indicates a diluted sample and is appended to the sample number on the result form.
- N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentration between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with an "P".
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- RE - This suffix indicates a re-analyzed sample and is appended to the sample number on the result form.

DATA REPORTING QUALIFIERS

Page 2

RR - This suffix indicates a re-extracted and re-analyzed sample and is appended to the sample number on the result form.

INORGANICS

Concentration Qualifiers (C)

U - Indicates that the analyte was analyzed for but not detected.

B - The reported value is less than the Contract Required Detection Limit (CRDL), but greater than the Instrument Detection Limit (IDL).

Quality Qualifiers (Q)

E - Indicates an estimated value because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post digestion spike for furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

Method Qualifiers (M)

P - for ICP.

A - for Flame AA.

F - for Furnace AA.

PM - for ICP when Microwave Digestion is used.

AM - for Flame AA when Microwave Digestion is used.

FM - for Furnace AA when Microwave Digestion is used.

CV - for Manual Cold Vapor AA.

AV - for Automated Cold Vapor AA.

AS - for Semi-Automated Spectrophotometric

C - for Manual Spectrophotometric

T - for Titrimetric.

NR - if the analyte is not required to be analyzed.

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK018	94	100	99	0
02	VSBLK010	96	102	99	0
03	VBSPK018	100	101	101	0
04	VLCS018	97	100	101	0
05	MW7D-D/FB	98	100	100	0
06	MW7D-D	94	100	99	0
07	MW7D-D/DP	94	101	100	0
08	MW7D-S	95	100	100	0
09	MW9D-1	95	99	99	0
10	MW9D-3	93	100	100	0
11	MW10D-1	100	99	99	0
12	MW10D-2	102	98	98	0
13	MW10D-3	98	100	99	0
14	MW7D-DMS	97	100	102	0
15	MW7D-DMSD	98	100	102	0
16	VBLK019	94	94	94	0
17	VBSPK019	101	95	96	0
18	MW7D-DDL	96	94	95	0
19	MW7D-D/DPDL	97	94	100	0
20	MW9D-2	92	95	101	0

QC LIMITS

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

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3BS

WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix Spike - EPA Sample No. VBSPK018

COMPOUND	SPIKE ADDED (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	49	98	61 - 145
Trichloroethene	50	47	94	71 - 120
Benzene	50	48	96	76 - 127
Toluene	50	47	94	76 - 125
Chlorobenzene	50	46	92	75 - 130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

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STL

NYSDOH 10142

NJDEP 73015

FORM 111-VOA-BS

EPA NY049

PA 66-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (845) 562-0890
Fax: (845) 562-0841

3BS
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix Spike - EPA Sample No. VBSPK019

COMPOUND	SPIKE ADDED (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	56	112	61 - 145
Trichloroethene	50	55	110	71 - 120
Benzene	50	55	110	76 - 127
Toluene	50	53	106	76 - 125
Chlorobenzene	50	56	112	75 - 130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

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NYSDOH 10142

NJDEP 73015

FORM III-VQA-BS
C10015 PH-0554

EPA NY049

PA 68-378

M-NY049

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315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041

Matrix Spike - EPA Sample No MW7D-D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	45	90	61 - 145
Trichloroethene	50	1.9	46	88	71 - 120
Benzene	50	7.0	50	86	76 - 127
Toluene	50	0	44	88	76 - 125
Chlorobenzene	50	0	43	86	75 - 130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	50	48	96	6	22	61 - 145
Trichloroethene	50	48	92	4	24	71 - 120
Benzene	50	53	92	7	21	76 - 127
Toluene	50	46	92	4	21	76 - 125
Chlorobenzene	50	46	92	7	21	75 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

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NYSDOH 10142

NJDEP 73015

FORM ILV OA-1

EPA NY049

PA 68-378

M-NY049

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Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK018

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID: V081809.D Lab Sample ID: VBLK018
 Date Analyzed: 8/18/2005 Time Analyzed: 16:25
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSD

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01 VSBK010	VSBK010	V081810.D	17:10
02 VBSPK018	VBSPK018	V081811.D	17:39
03 VLCS018	018VLCS	V081812.D	18:13
04 MW7D-D/FB	251041-002	V081813.D	18:54
05 MW7D-D	251041-003	V081814.D	19:24
06 MW7D-D/DP	251041-004	V081815.D	19:53
07 MW7D-S	251041-005	V081816.D	20:23
08 MW9D-1	251041-006	V081817.D	20:53
09 MW9D-3	251041-008	V081819.D	21:52
10 MW10D-1	251041-009	V081820.D	22:22
11 MW10D-2	251041-010	V081821.D	22:52
12 MW10D-3	251041-011	V081822.D	23:21
13 MW7D-DMS	251041-003MS	V081823.D	23:51
14 MW7D-DMSD	251041-003MSD	V081824.D	0:21

COMMENTS

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FORM IV VOA

3/90

NYSDOH 10142

NJDEP 73015

CTDOH: PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
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4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK019

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041Lab File ID: V081903.DLab Sample ID: VBLK019Date Analyzed: 8/19/2005Time Analyzed: 12:02GC Column: DB-624ID: 0.53 (mm)

Heated Purge: (Y/N)

NInstrument ID: MSD

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBSPK019	VBSPK019	V081904.D	13:08
02	MW7D-DDL	251041-003DL	V081905.D	14:42
03	MW7D-D/DPDL	251041-004DL	V081906.D	15:18
04	MW9D-2	251041-007	V081907.D	15:54

COMMENTS

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FORM IV VOA

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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5A

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID: V081801.D BFB Injection Date: 8/18/2005
 Instrument ID: MSD BFB Injection Time: 9:45
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.1
75	30.0 - 66.0% of mass 95	47.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	80.9
175	4.0 - 9.0% of mass 174	6.5 (8.0)1
176	93.0 - 101.0% of mass 174	81.4 (100.6)1
177	5.0 - 9.0% of mass 176	5.6 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	V081802.D	8/18/2005	10:26
02	VSTD020	VSTD020	V081803.D	8/18/2005	11:15
03	VSTD050	VSTD050	V081804.D	8/18/2005	12:17
04	VSTD100	VSTD100	V081805.D	8/18/2005	13:26
05	VSTD200	VSTD200	V081806.D	8/18/2005	14:08

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FORM V (A)

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID: V081807.D BFB Injection Date: 8/18/2005
 Instrument ID: MSD BFB Injection Time: 14:51
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.6
75	30.0 - 66.0% of mass 95	47.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	79.8
175	4.0 - 9.0% of mass 174	6.4 (8.0)1
176	93.0 - 101.0% of mass 174	79.0 (99.0)1
177	5.0 - 9.0% of mass 176	5.5 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	V081808.D	8/18/2005	15:36
02	VBLK018	VBLK018	V081809.D	8/18/2005	16:25
03	VSBLK010	VSBLK010	V081810.D	8/18/2005	17:10
04	VBSPK018	VBSPK018	V081811.D	8/18/2005	17:39
05	VLCS018	018VLCS	V081812.D	8/18/2005	18:13
06	MW7D-D/FB	251041-002	V081813.D	8/18/2005	18:54
07	MW7D-D	251041-003	V081814.D	8/18/2005	19:24
08	MW7D-D/DP	251041-004	V081815.D	8/18/2005	19:53
09	MW7D-S	251041-005	V081816.D	8/18/2005	20:23
10	MW9D-1	251041-006	V081817.D	8/18/2005	20:53
11	MW9D-3	251041-008	V081819.D	8/18/2005	21:52
12	MW10D-1	251041-009	V081820.D	8/18/2005	22:22
13	MW10D-2	251041-010	V081821.D	8/18/2005	22:52
14	MW10D-3	251041-011	V081822.D	8/18/2005	23:21
15	MW7D-DMS	251041-003MS	V081823.D	8/18/2005	23:51
16	MW7D-DMSD	251041-003MSD	V081824.D	8/19/2005	0:21

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FORM V VOA

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STL

NYSDOH 10142

NJDEP 73016

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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5A

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID: V081901.D BFB Injection Date: 8/19/2005
 Instrument ID: MSD BFB Injection Time: 9:26
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.2
75	30.0 - 66.0% of mass 95	48.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	80.5
175	4.0 - 9.0% of mass 174	6.6 (8.2)1
176	93.0 - 101.0% of mass 174	79.1 (98.3)1
177	5.0 - 9.0% of mass 176	5.6 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	V081902.D	8/19/2005	10:14
02	VBLK019	VBLK019	V081903.D	8/19/2005	12:02
03	VBSPK019	VBSPK019	V081904.D	8/19/2005	13:08
04	MW7D-DDL	251041-003DL	V081905.D	8/19/2005	14:42
05	MW7D-D/DPDL	251041-004DL	V081906.D	8/19/2005	15:18
06	MW9D-2	251041-007	V081907.D	8/19/2005	15:54

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FORM V WOA

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID (Standard): V081808.D Date Analyzed: 8/18/2005
 Instrument ID: MSD Time Analyzed: 15:36
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1838069	9.28	4848973	11.10	3898336	15.87
UPPER LIMIT	3676138	9.78	9697946	11.60	7796672	16.37
LOWER LIMIT	919035	8.78	2424487	10.60	1949168	15.37
EPA SAMPLE NO.						
01 VBLK018	1742037	9.27	4501582	11.09	3641062	15.86
02 VSBLK010	1876759	9.28	4971433	11.09	3997149	15.85
03 VBSPK018	1763231	9.28	4565387	11.09	3888235	15.86
04 VLCS018	1767875	9.28	4494671	11.10	3792125	15.86
05 MW7D-D/FB	1765642	9.28	4580544	11.09	3691992	15.85
06 MW7D-D	1849641	9.28	4722739	11.09	3961683	15.86
07 MW7D-D/DP	1860051	9.28	4732097	11.10	3973301	15.86
08 MW7D-S	1835170	9.27	4635690	11.10	3934639	15.86
09 MW9D-1	1834678	9.28	4669516	11.10	3944421	15.86
10 MW9D-3	1901543	9.28	4819848	11.09	4067914	15.86
11 MW10D-1	1932207	9.28	4862645	11.09	4107352	15.86
12 MW10D-2	1818152	9.27	4612294	11.09	3895582	15.86
13 MW10D-3	1899036	9.27	4836426	11.09	4041326	15.86
14 MW7D-DMS	1901390	9.28	4935567	11.09	4181318	15.86
15 MW7D-DMSD	1902599	9.28	4859622	11.09	4123153	15.85

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = 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 to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits are part of Severn Trent Laboratories, Inc.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID (Standard): V081902.D Date Analyzed: 8/19/2005
 Instrument ID: MSD Time Analyzed: 10:14
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1812736	9.28	4851340	11.10	3973174	15.86
UPPER LIMIT	3625472	9.78	9702680	11.60	7946348	16.36
LOWER LIMIT	906368	8.78	2425670	10.60	1986587	15.36
EPA SAMPLE NO.						
01 VBLK019	1654145	9.27	4418488	11.10	3769762	15.87
02 V8SPK019	1686810	9.28	4576594	11.10	3889943	15.86
03 MW7D-DDL	1694523	9.28	4405004	11.10	3791285	15.86
04 MW7D-D/DPDL	1824598	9.27	4660957	11.09	3829209	15.86
05 MW9D-2	1872532	9.29	4665037	11.11	3921755	15.87

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = 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 to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required Newburgh as part of Severn Trent Laboratories, Inc.

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D/FB
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 251041-2
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmcd
	Bromomethane	10	U		10	ug/L	08/18/05	dmcd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmcd
	Chloroethane	10	U		10	ug/L	08/18/05	dmcd
	Methylene chloride	2.1	J		10	ug/L	08/18/05	dmcd
	Acetone	10	U		10	ug/L	08/18/05	dmcd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Chloroform	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloroethane	10	U		10	ug/L	08/18/05	dmcd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmcd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmcd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmcd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmcd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Benzene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Bromoform	10	U		10	ug/L	08/18/05	dmcd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmcd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmcd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmcd
	Toluene	10	U		10	ug/L	08/18/05	dmcd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmcd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmcd
	Styrene	10	U		10	ug/L	08/18/05	dmcd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmcd
	cis-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd

* In Description = Dry Wgt.

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-D/FB

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-002

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081813.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	22	JN

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3/90

NYSDOH 10142

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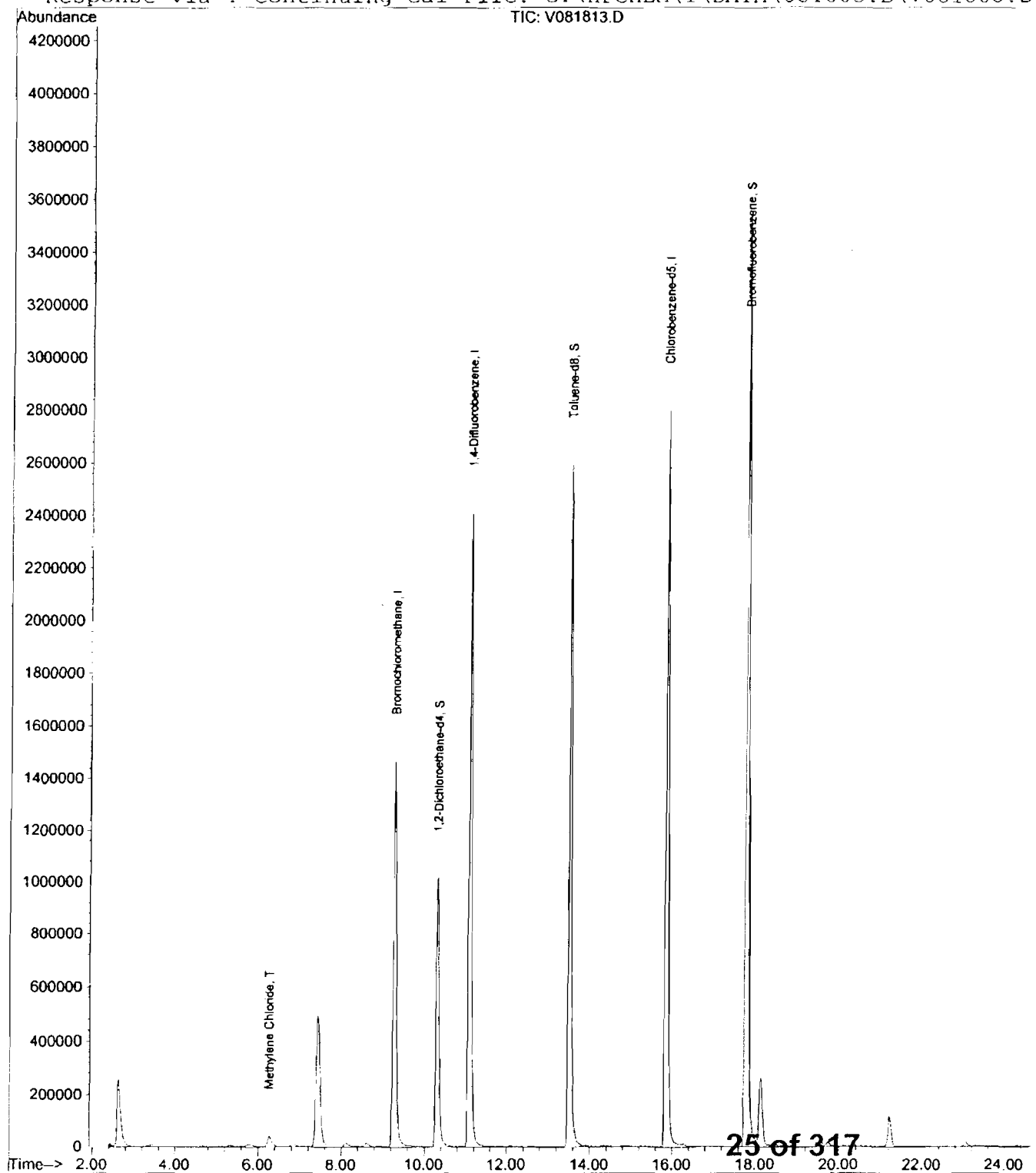
Quantitation Report

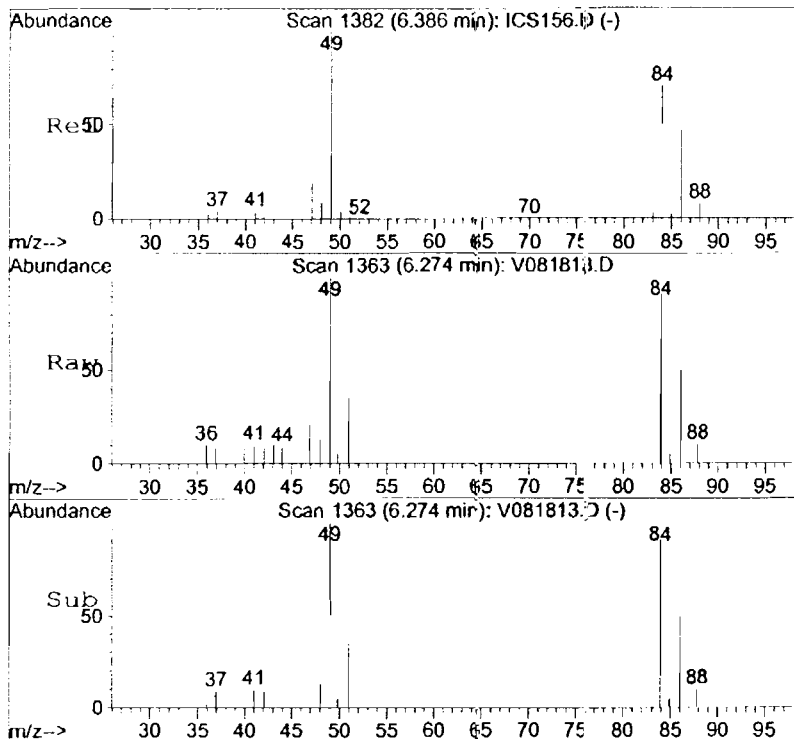
Data File : Z:\MSD\081805.B\V081813.D
 Acq On : 18 Aug 2005 6:54 pm
 Sample : 251041-002,,
 Misc : MW7D-D\FB\018,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 9:54 19105

Vial: 10
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

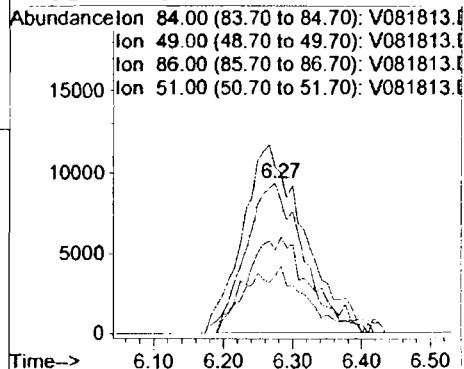
Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D





#9
 Methylene Chloride
 Concen: 2.08 ug/l
 RT: 6.27 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: V081813.D
 Acq: 18 Aug 2005 6:54 pm

Tgt Ion:	84	Resp:	55676
Ion	Ratio	Lower	Upper
84	100		
49	110.2	80.3	120.3
86	55.3	45.3	85.3
51	38.3	12.7	52.7



Data File : Z:\MSD\081805.B\V081813.D
Acq On : 18 Aug 2005 6:54 pm
Sample : 251041-002,,
Misc : MW7D-D\FB1018,,VBLK\MACTEC 95.1
MS Integration Params: RTEINT.P
Quant Time: Aug 19 9:54 19105

Vial: 10
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.REP

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D
DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1765642	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4580544	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.85	117	3691992	50.00	ug/l	-0.02

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	1880623	48.75	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	97.50%
42) Toluene-d8	13.51	98	4166167	49.83	ug/l	-0.02
Spiked Amount	50.000	Range	88 - 110	Recovery	=	99.66%
46) Bromofluorobenzene	17.77	95	3271422	50.07	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	100.14%

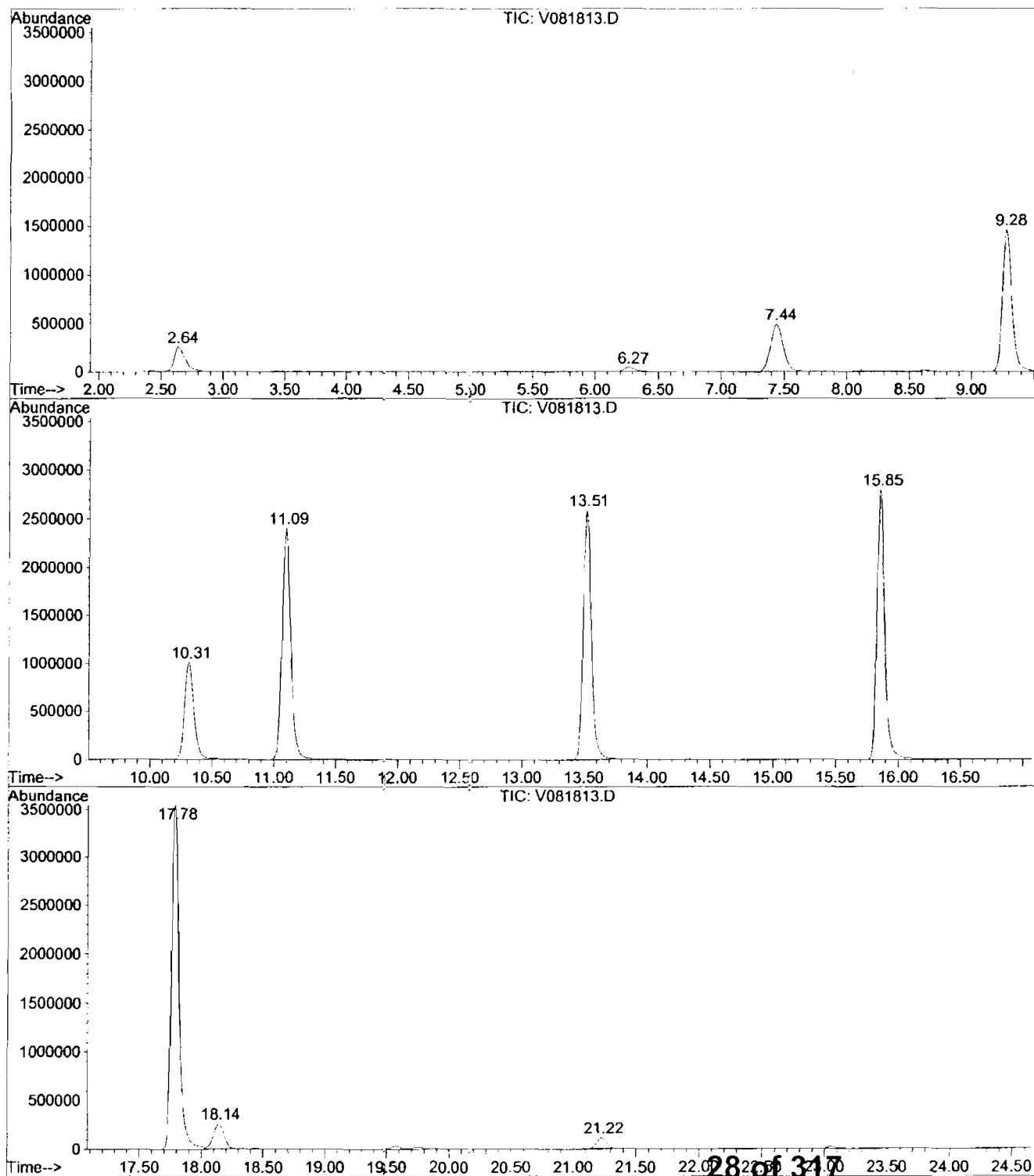
Target Compounds

9) Methylene Chloride	6.27	84	55676	2.08	ug/l	Qvalue 89

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LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\081813.D
 Operator : DMD
 Acquired : 18 Aug 2005 6:54 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-002,,
 Misc Info : MW7D-D\FB\018,,VBLK\MACTEC 95.1
 Vial Number: 10
 Quant File :9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081805.B\081813.D
Acq On : 18 Aug 2005 6:54 pm
Sample : 251041-002,,
Misc : MW7D-D/FB1018,,VBLK\MACTEC 95.1
MS Integration Params: LSCINT.P

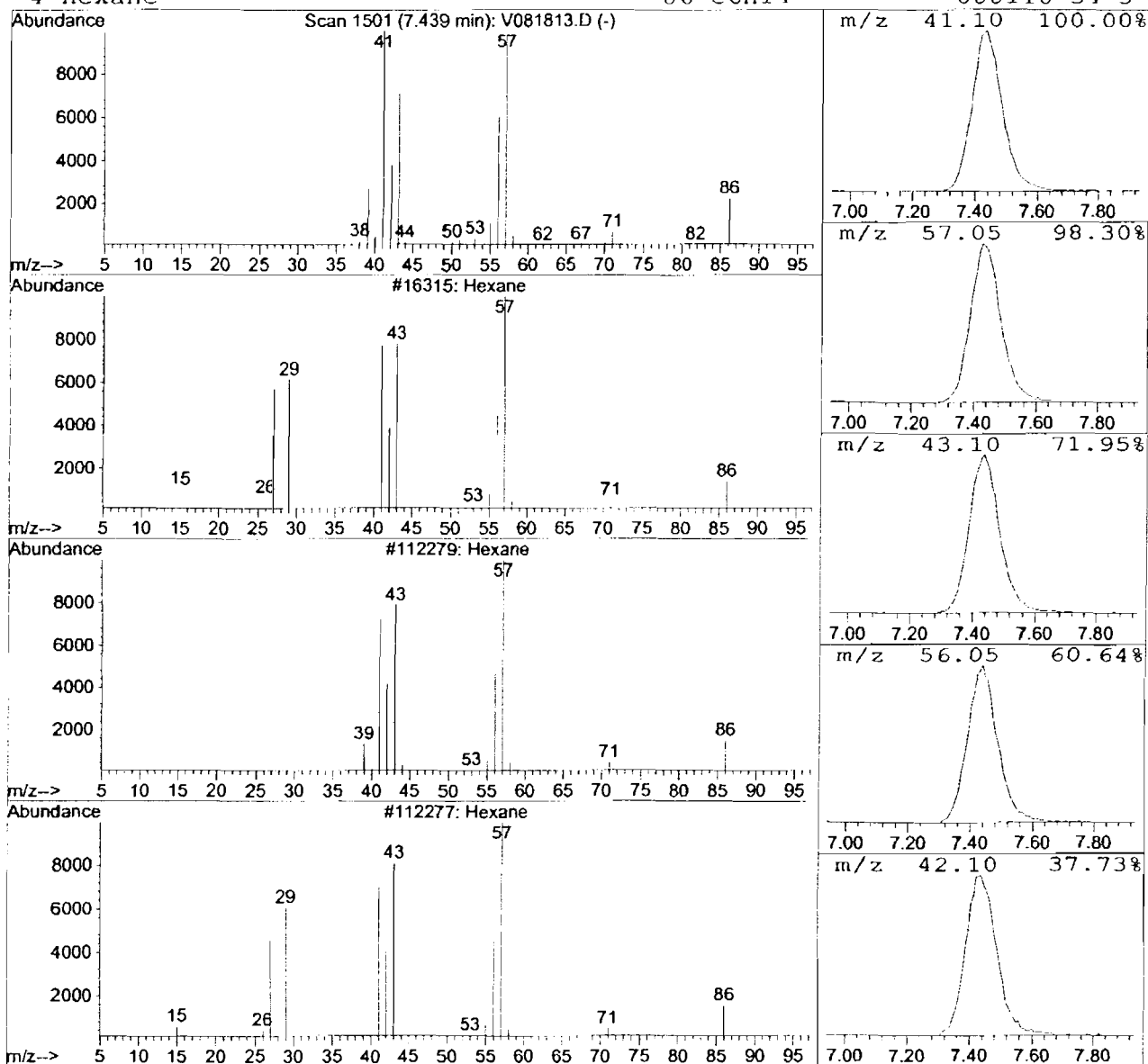
Vial: 10
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	22.15 ug/l	3380820	Bromochloromethane	9.28

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexane	86	C6H14	000110-54-3	78
2		Hexane	86	C6H14	000110-54-3	12
3		Hexane	86	C6H14	000110-54-3	50
4		Hexane	86	C6H14	000110-54-3	42



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 6:54 pm
 Data File: Z:\MSD\081805.B\V081813.D
 Name: 251041-002,,
 Misc: MW7D-D/FB\018,,VBLK\MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\mist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.64	10.5	ug/l	1600560	ISTD01	9.28	7630960	50.0
Hexane	7.44	22.2	ug/l	3380820	ISTD01	9.28	7630960	50.0

V081813.D 9510818.M Fri Aug 19 11:01:47 2005 RPT1

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-3
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	1.5	J		10	ug/L	08/18/05	dmd
	Acetone	2.8	J	B	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	1.1	J		10	ug/L	08/18/05	dmd
	Chloroform	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	210	U	E	10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	1.9	J		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	7.0	J		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	32	U		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-D

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-003

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081814.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	20	JN

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TRENT

STL

FORM 1 VOLA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDOH'S PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

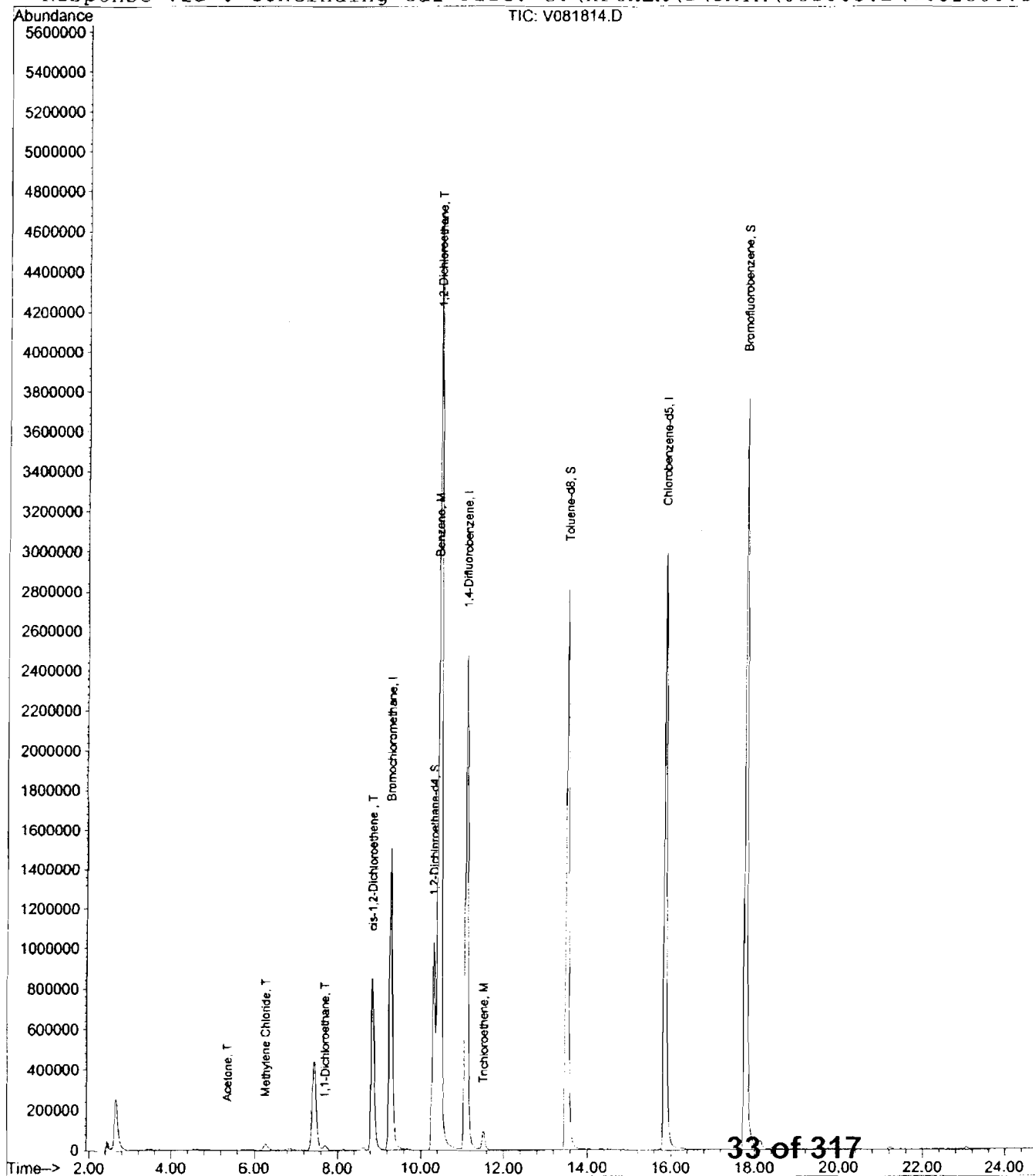
Quantitation Report

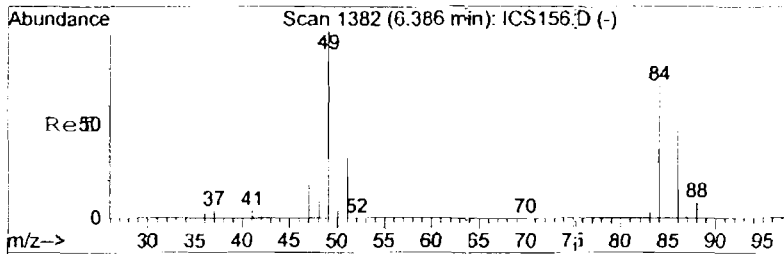
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Acq On : 18 Aug 2005 7:24 pm
Sample : 251041-003,,
Misc : MW7D-D\018,,VBLK\MACTEC 95.1
MS Integration Params: RTEINT.P
Quant Time: Aug 19 10:06 19105

Vial: 11
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RE

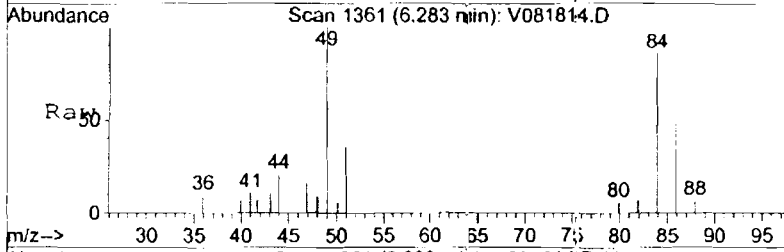
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Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D



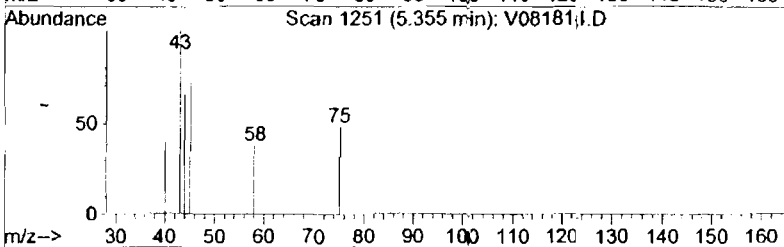
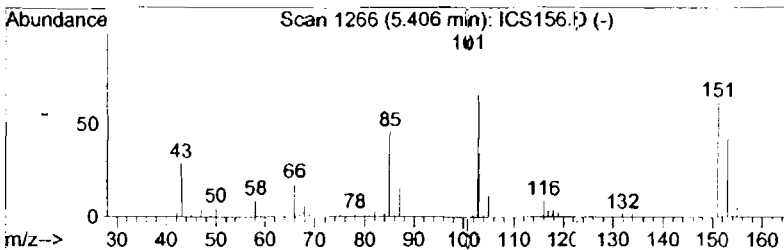
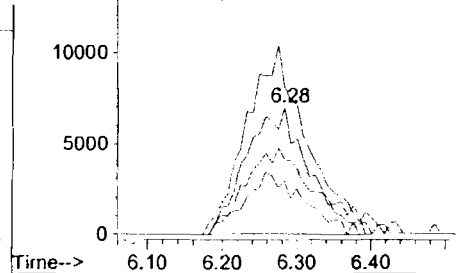
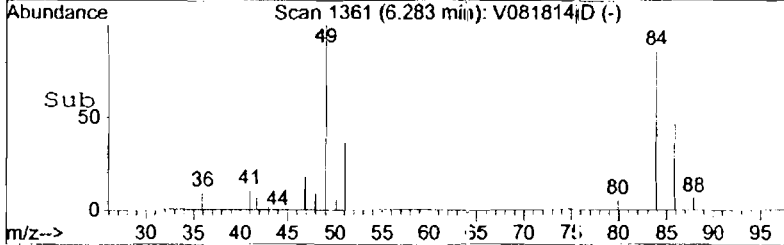


#9
Methylene Chloride
Concen: 1.48 ug/l
RT: 6.28 min Scan# 1361
Delta R.T. 0.02 min
Lab File: V081814.D
Acq: 18 Aug 2005 7:24 pm

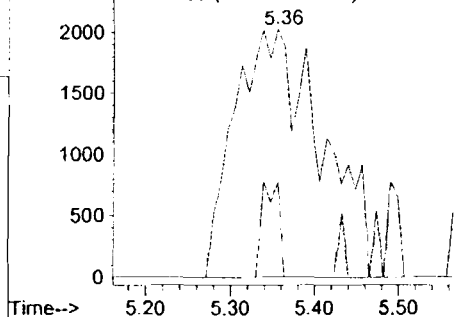
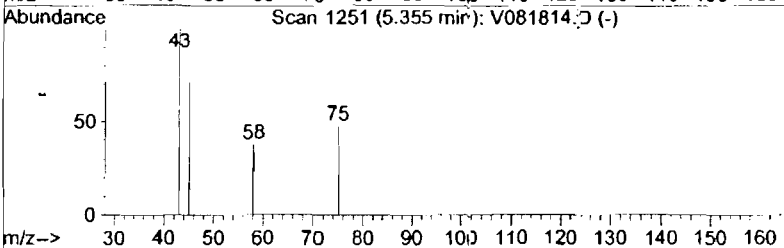
Tgt Ion: 84 Resp: 41452
Ion Ratio Lower Upper
84 100
49 116.4 80.3 120.3
86 58.6 45.3 85.3
51 41.9 12.7 52.7

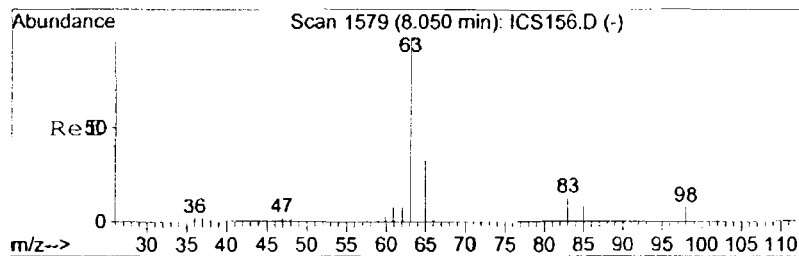


Abundance Ion 84.00 (83.70 to 84.70): V081814.D
Ion 49.00 (48.70 to 49.70): V081814.D
Ion 86.00 (85.70 to 86.70): V081814.D
Ion 51.00 (50.70 to 51.70): V081814.D



Abundance Ion 43.00 (42.70 to 43.70): V081814.D
Ion 58.00 (57.70 to 58.70): V081814.D





#14

1,1-Dichloroethane

Concen: 1.14 ug/l

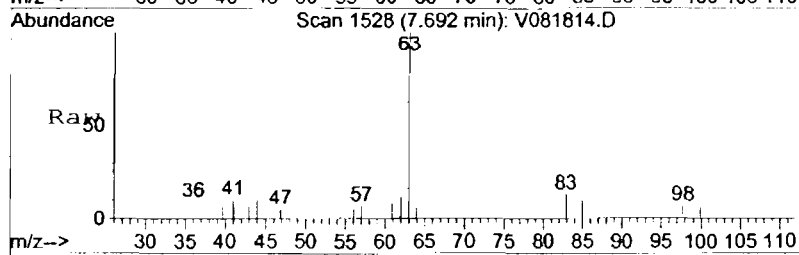
RT: 7.69 min Scan# 1528

Delta R.T. -0.02 min

Lab File: V081814.D

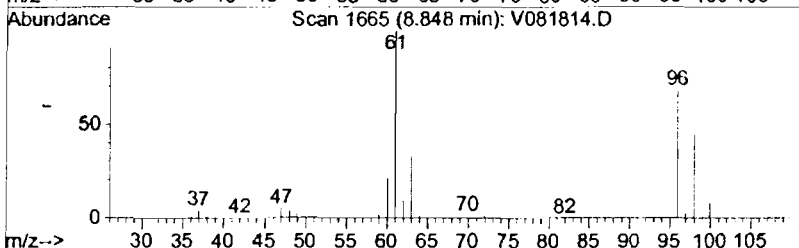
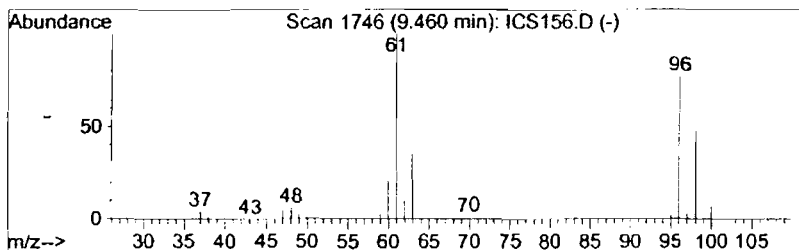
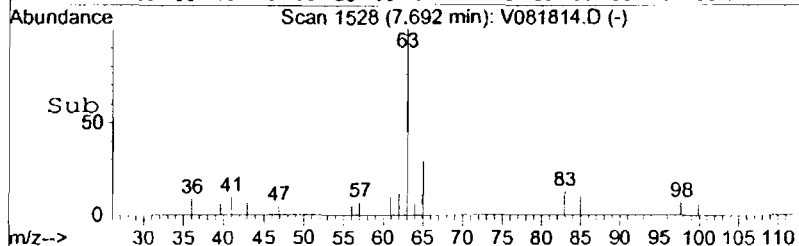
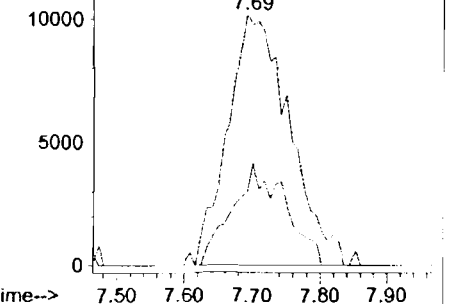
Acq: 18 Aug 2005 7:24 pm

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	64813		
65	29.4	13.6		53.6



Abundance Ion 63.00 (62.70 to 63.70): V081814.D

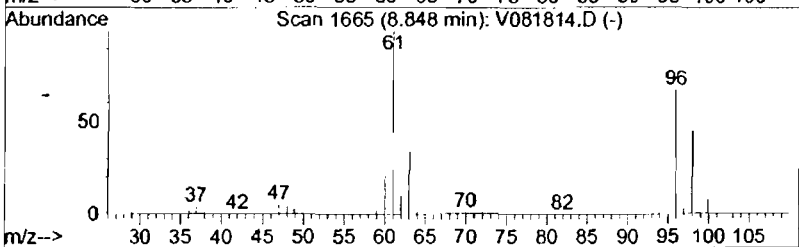
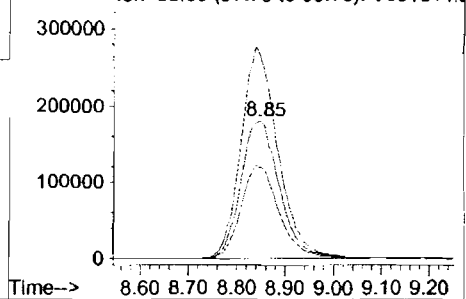
Ion 65.00 (64.70 to 65.70): V081814.D

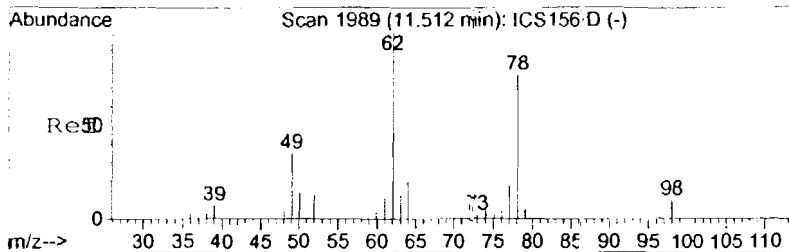


Abundance Ion 96.00 (95.70 to 96.70): V081814.D

Ion 61.00 (60.70 to 61.70): V081814.D

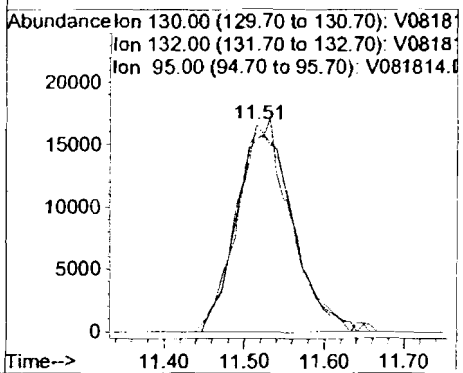
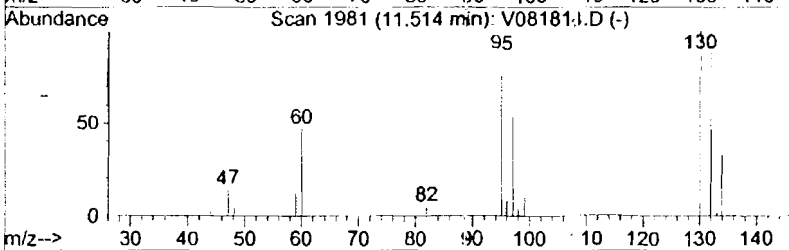
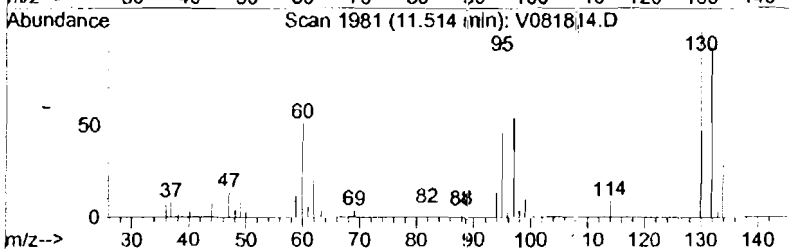
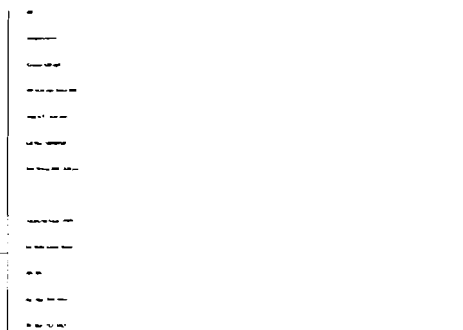
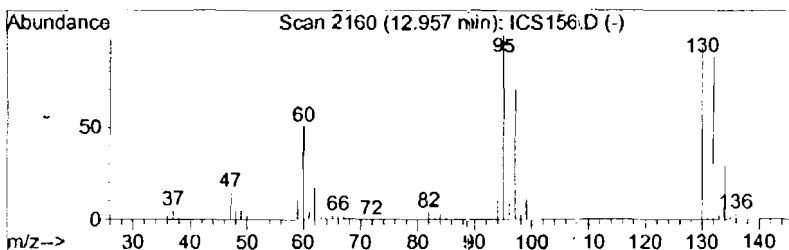
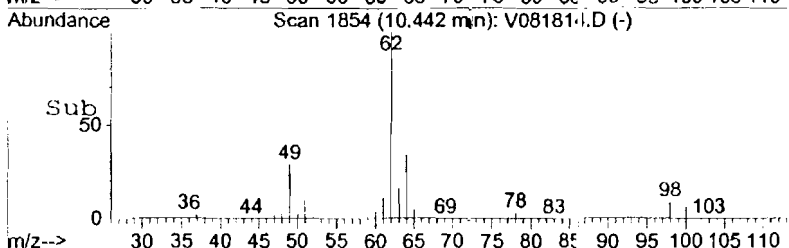
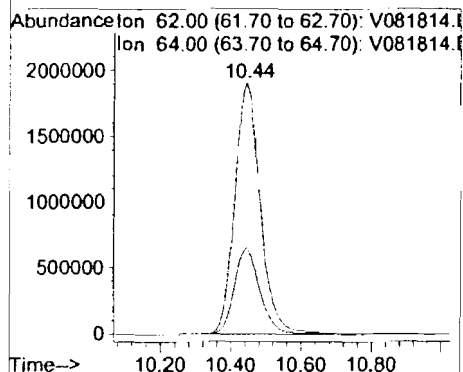
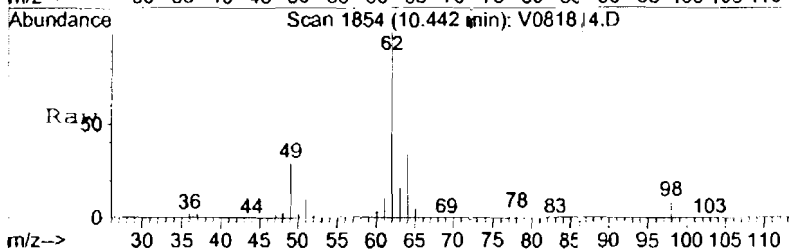
Ion 98.00 (97.70 to 98.70): V081814.D

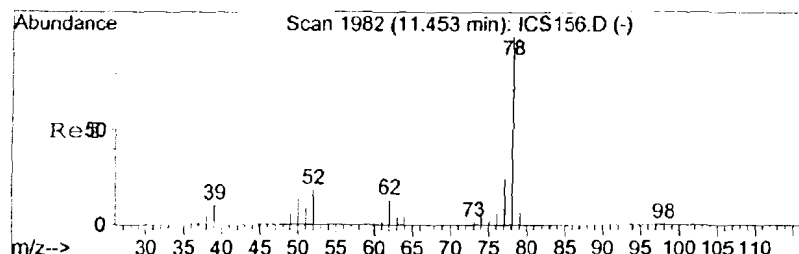




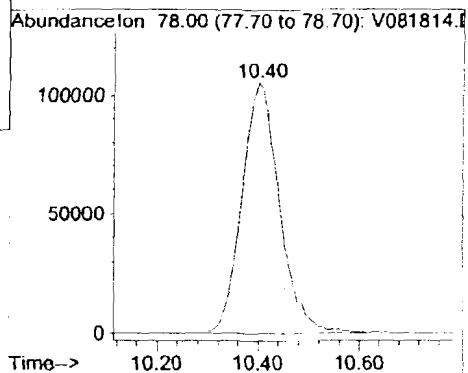
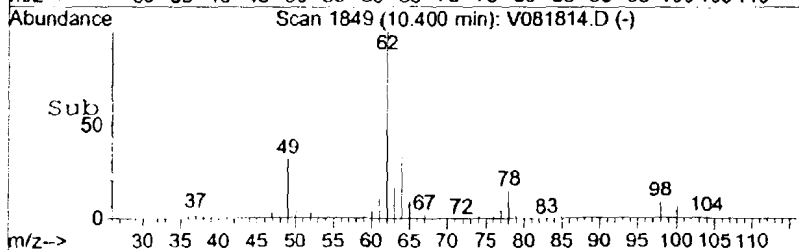
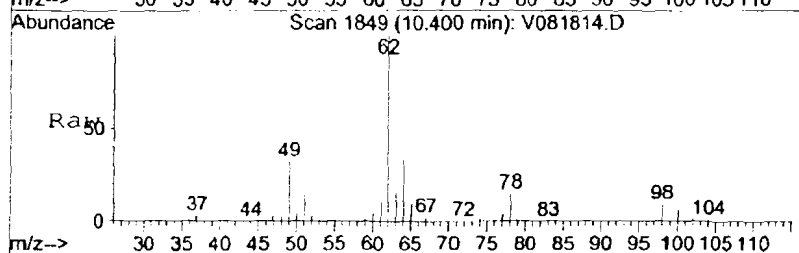
#20
1,2-Dichloroethane
Concen: 209.13 ug/l
RT: 10.44 min Scan# 1854
Delta R.T. -0.01 min
Lab File: V081814.D
Acq: 18 Aug 2005 7:24 pm

Tgt Ion: 62 Resp: 9592598
Ion Ratio Lower Upper
62 100
64 34.2 13.9 53.9





#30
Benzene
Concen: 7.05 ug/l
RT: 10.40 min Scan# 1849
Delta R.T. -0.01 min
Lab File: V081814.D
Acq: 18 Aug 2005 7:24 pm
Tgt Ion: 78 Resp: 543899



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081814.D
 Acq On : 18 Aug 2005 7:24 pm
 Sample : 251041-003,,
 Misc : MW7D-D\018,,VBLK\MACTEQ 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:06 19105

Vial: 11
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\081808.D
 DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1849641	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4722739	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3961683	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	1889781	46.76	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	93.52%
42) Toluene-d8	13.52	98	4480326	49.94	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	99.88%
46) Bromofluorobenzene	17.78	95	3456627	49.31	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	98.62%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
9) Methylene Chloride	6.28	84	41452	1.48	ug/l	86
10) Acetone	5.36	43	14432	2.76	ug/l	18
14) 1,1-Dichloroethane	7.69	63	64813	1.14	ug/l	93
17) cis-1,2-Dichloroethene	8.85	96	999998	31.50	ug/l	# 80
20) 1,2-Dichloroethane	10.44	62	9592598	209.13	ug/l	99
29) Trichloroethene	11.51	130	80276	1.92	ug/l	94
30) Benzene	10.40	78	543899	7.05	ug/l	100

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

V081814.D 9510818.M

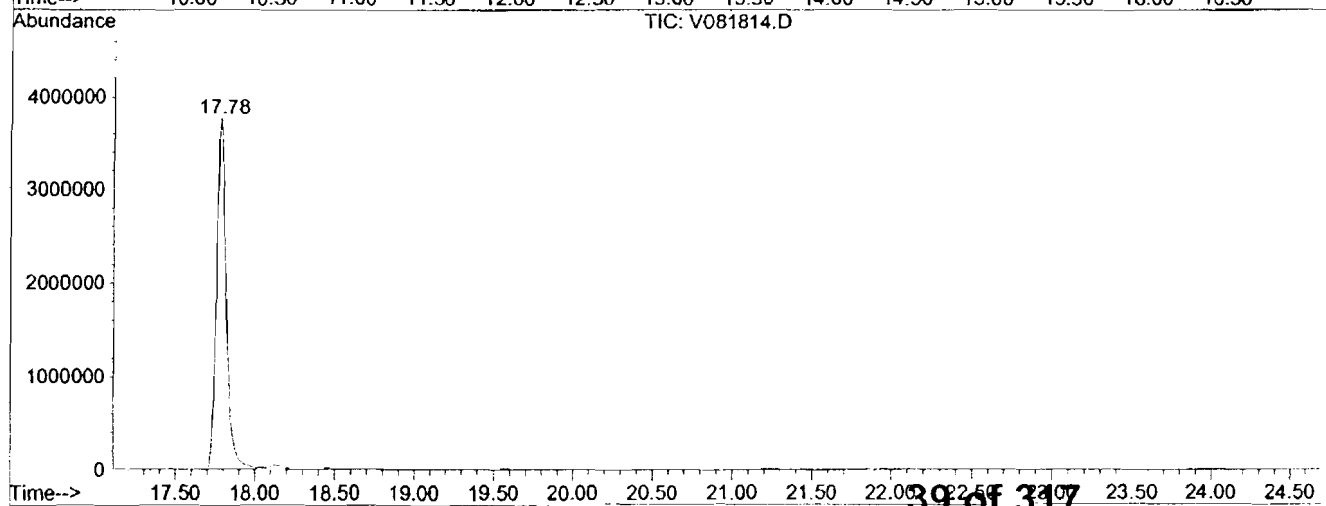
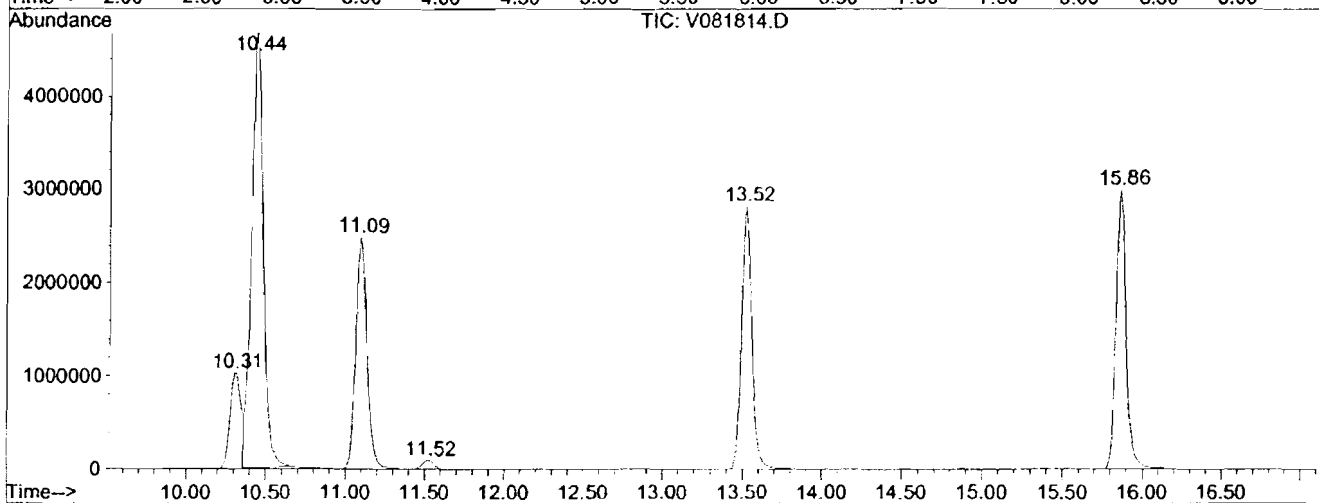
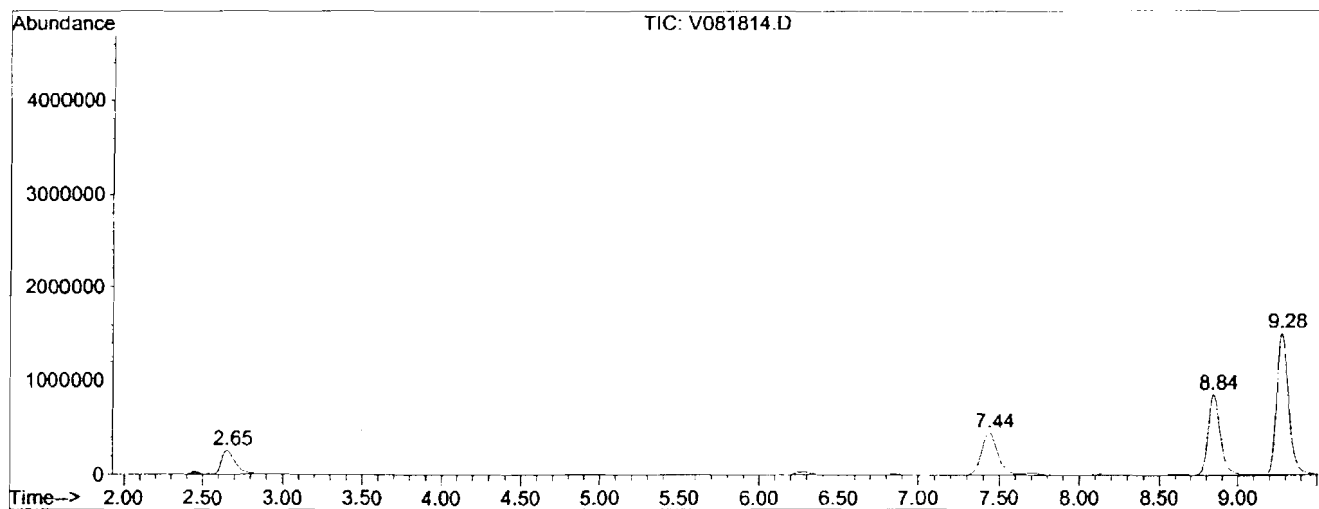
Fri Aug 19 11:02:01 2005

RPT1

Page 1

LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\V081814.D
Operator : DMD
Acquired : 18 Aug 2005 7:24 pm using AcqMethod 9510818
Instrument : MSD
Sample Name: 251041-003,,
Misc Info : MW7D-D1018,,VBLK\MACTEC 95.1
Vial Number: 11
Quant File :9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081805.B\081814.D
Acq On : 18 Aug 2005 7:24 pm
Sample : 251041-003,,
Misc : MW7D-D\018,,VBLK\MACTEC 95.1
MS Integration Params: LSCINT.P

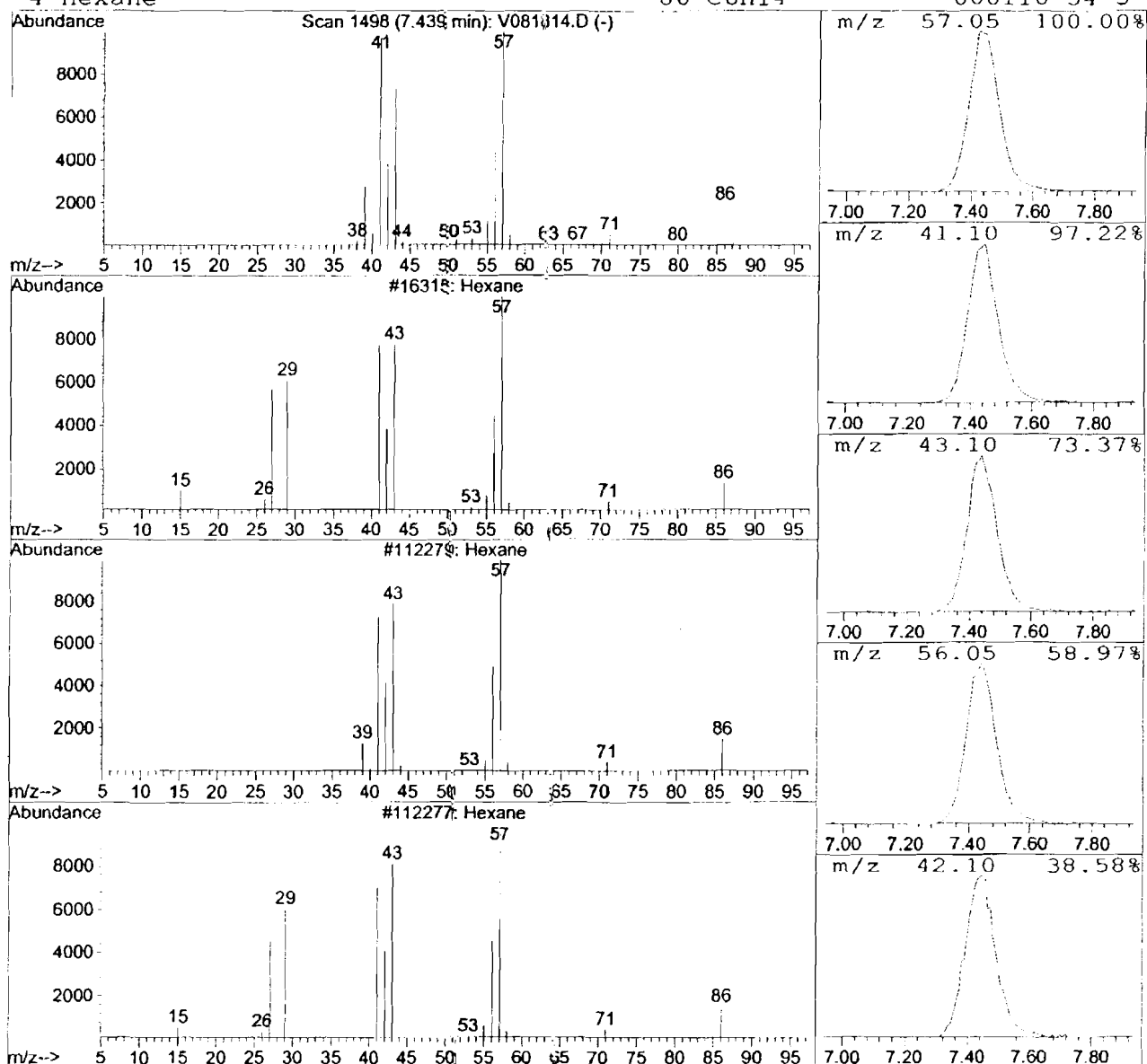
Vial: 11
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	19.57 ug/l	3092670	Bromochloromethane	9.28

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	91
2	Hexane			86	C6H14	000110-54-3	91
3	Hexane			86	C6H14	000110-54-3	86
4	Hexane			86	C6H14	000110-54-3	43



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 7:24 pm
 Data File: Z:\MSD\081805.B\V081814.D
 Name: 251041-003,,
 Misc: MW7D-DI018,,VBLK\MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.65	9.4	ug/l	1479370	ISTD01	9.28	7903440	50.0
Hexane	7.44	19.6	ug/l	3092670	ISTD01	9.28	7903440	50.0

V081814.D 9510818.M Fri Aug 19 11:02:19 2005 RPT1

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-3
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	100	U		100	ug/L	08/19/05	dmd
	Bromomethane	100	U		100	ug/L	08/19/05	dmd
	Vinyl chloride	100	U		100	ug/L	08/19/05	dmd
	Chloroethane	100	U		100	ug/L	08/19/05	dmd
	Methylene chloride	100	U		100	ug/L	08/19/05	dmd
	Acetone	100	U		100	ug/L	08/19/05	dmd
	Carbon disulfide	100	U		100	ug/L	08/19/05	dmd
	1,1-Dichloroethene	100	U		100	ug/L	08/19/05	dmd
	1,1-Dichloroethane	100	U		100	ug/L	08/19/05	dmd
	Chloroform	100	U		100	ug/L	08/19/05	dmd
	1,2-Dichloroethane	290	U	D	100	ug/L	08/19/05	dmd
	2-Butanone (MEK)	100	U		100	ug/L	08/19/05	dmd
	1,1,1-Trichloroethane	100	U		100	ug/L	08/19/05	dmd
	Carbon tetrachloride	100	U		100	ug/L	08/19/05	dmd
	Bromodichloromethane	100	U		100	ug/L	08/19/05	dmd
	1,2-Dichloropropane	100	U		100	ug/L	08/19/05	dmd
	cis-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	dmd
	Trichloroethene	100	U		100	ug/L	08/19/05	dmd
	Dibromochloromethane	100	U		100	ug/L	08/19/05	dmd
	1,1,2-Trichloroethane	100	U		100	ug/L	08/19/05	dmd
	Benzene	10	J	JD	100	ug/L	08/19/05	dmd
	trans-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	dmd
	Bromoform	100	U		100	ug/L	08/19/05	dmd
	4-Methyl-2-pentanone (MIBK)	100	U		100	ug/L	08/19/05	dmd
	2-Hexanone	100	U		100	ug/L	08/19/05	dmd
	Tetrachloroethene	100	U		100	ug/L	08/19/05	dmd
	1,1,2,2-Tetrachloroethane	100	U		100	ug/L	08/19/05	dmd
	Toluene	100	U		100	ug/L	08/19/05	dmd
	Chlorobenzene	100	U		100	ug/L	08/19/05	dmd
	Ethylbenzene	100	U		100	ug/L	08/19/05	dmd
	Styrene	100	U		100	ug/L	08/19/05	dmd
	Xylenes (total)	100	U		100	ug/L	08/19/05	dmd
	cis-1,2-Dichloroethene	42	J	D	100	ug/L	08/19/05	dmd
	trans-1,2-Dichloroethene	100	U		100	ug/L	08/19/05	dmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73016

CTDOH-S PH-0554

EPA NY049

PA 66-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

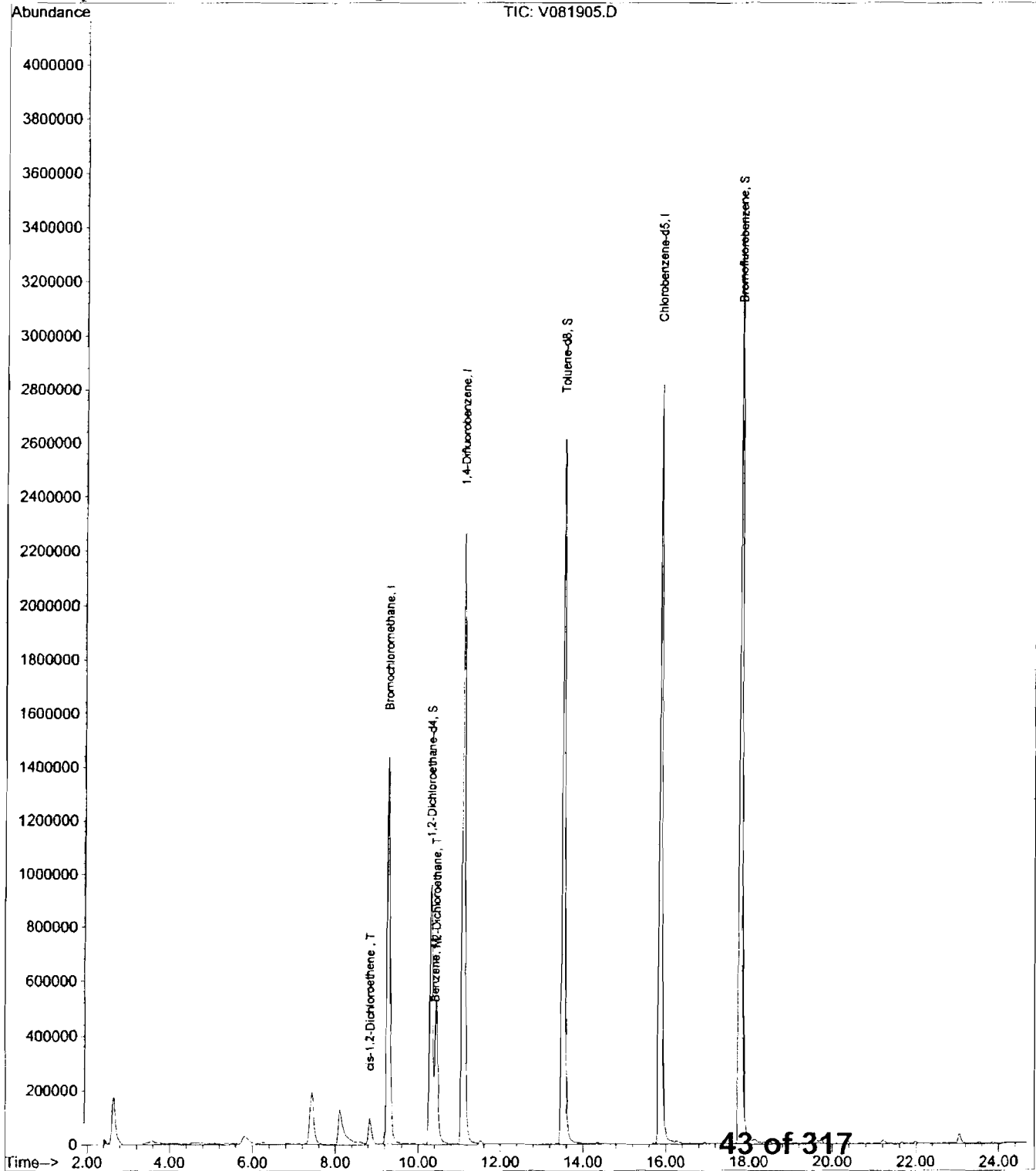
Quantitation Report

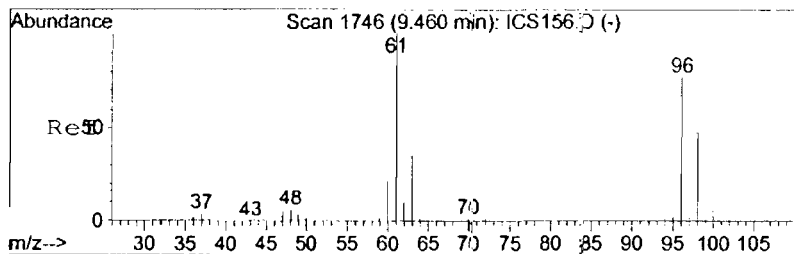
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 Misc : MW7D-D\019,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:30 19105

Vial: 11
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

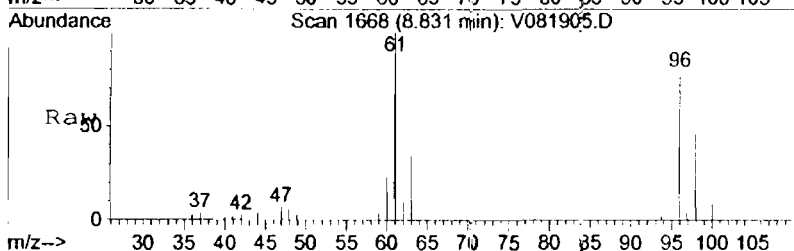
Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\V081902.D

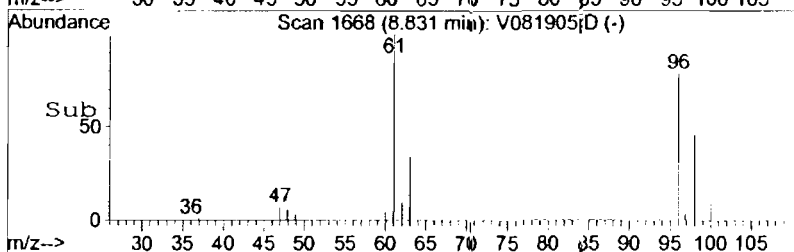




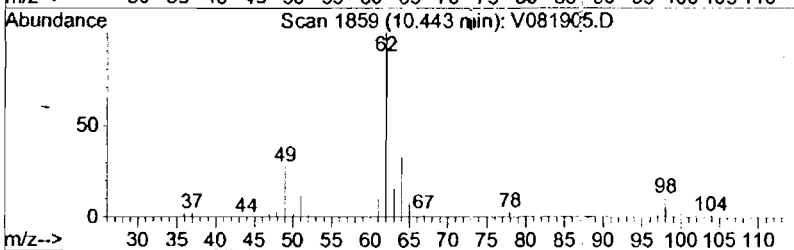
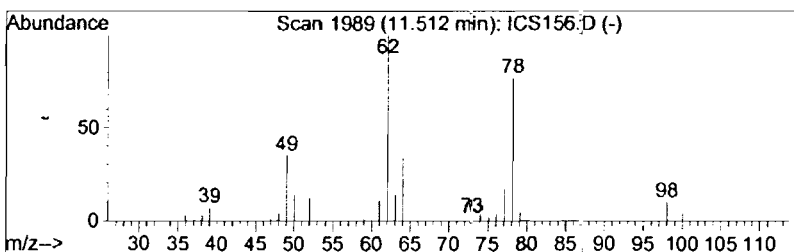
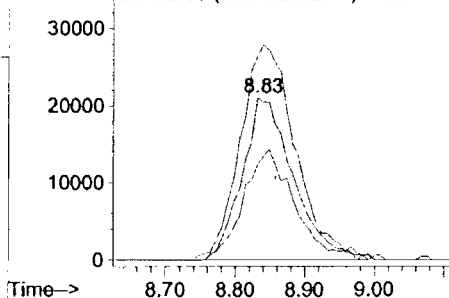
#17
 cis-1,2-Dichloroethene
 Concen: 4.21 ug/l
 RT: 8.83 min Scan# 1668
 Delta R.T. -0.01 min
 Lab File: V081905.D
 Acq: 19 Aug 2005 2:42 pm



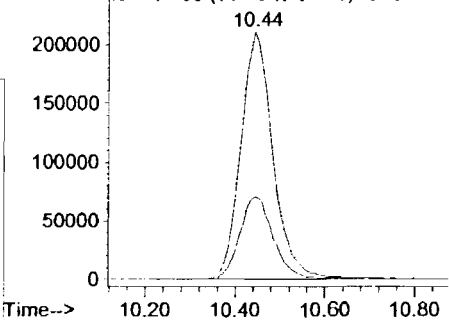
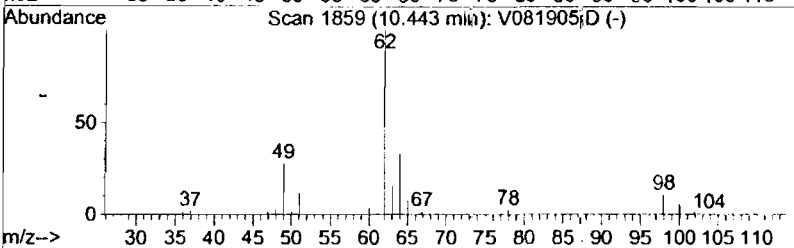
Tgt Ion: 96 Resp: 107603
 Ion Ratio Lower Upper
 96 100
 61 122.8 95.1 135.1
 98 58.5 47.3 87.3

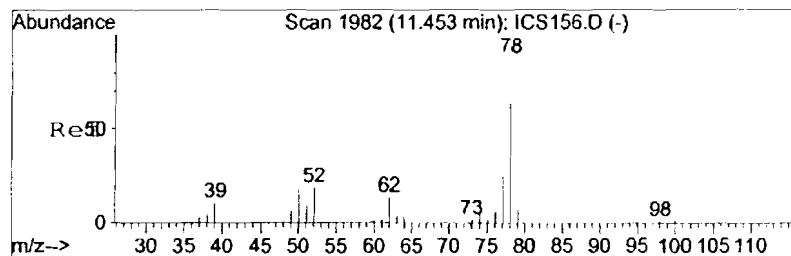


Abundance Ion 96.00 (95.70 to 96.70): V081905.D
 Ion 61.00 (60.70 to 61.70): V081905.D
 Ion 98.00 (97.70 to 98.70): V081905.D

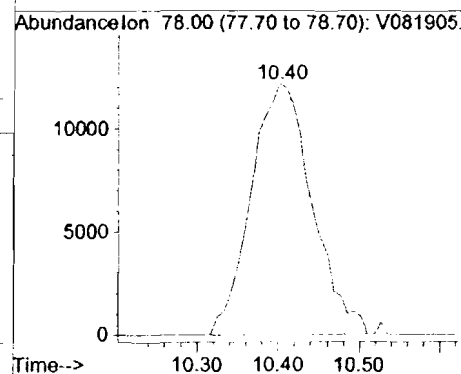
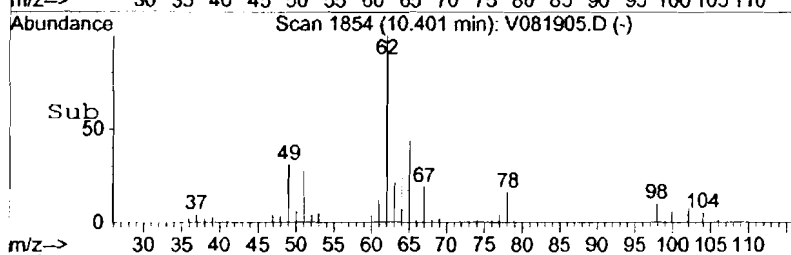
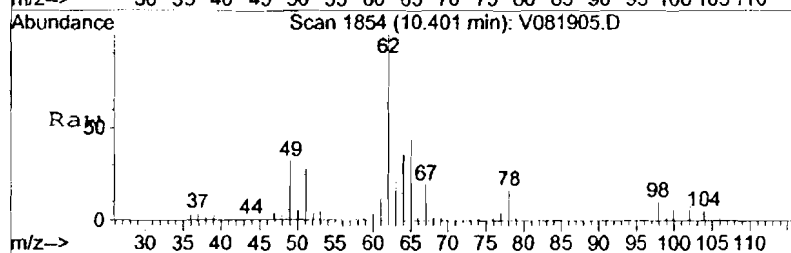


Abundance Ion 62.00 (61.70 to 62.70): V081905.D
 Ion 64.00 (63.70 to 64.70): V081905.D





#30
Benzene
Concen: 1.03 ug/l
RT: 10.40 min Scan# 1854
Delta R.T. -0.01 min
Lab File: V081905.D
Acq: 19 Aug 2005 2:42 pm
Tgt Ion: 78 Resp: 63610



Data File : Z:\MSD\081905.B\081905.D
 Acq On : 19 Aug 2005 2:42 pm
 Sample : 251041-003,,DL,,X10
 Misc : MW7D-D1019,,VBLK\MACTEC 95.1
 MS Integration Params: RTE\NT.P
 Quant Time: Aug 31 18:30 19105

Vial: 11
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\081902.D
 DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	F.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1694523	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4405004	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3791285	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	1816882	47.76	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	95.52%
42) Toluene-d8	13.52	98	4180492	46.91	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	93.82%
46) Bromofluorobenzene	17.78	95	3162722	47.46	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	94.92%

Target Compounds

						Qvalue
17) cis-1,2-Dichloroethene	8.83	96	107603	4.21	ug/l	91
20) 1,2-Dichloroethane	10.44	62	1057155	28.55	ug/l	99
30) Benzene	10.40	78	63610	1.03	ug/l	100

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D/DP
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-4
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	1.4	J		10	ug/L	08/18/05	dmd
	Acetone	2.2	J	B	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	1.2	J		10	ug/L	08/18/05	dmd
	Chloroform	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	210	U	E	10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	2.0	J		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	7.0	J		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	32	U		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-D/DP

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-004

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081815.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	19	JN

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SEVERN
TRENT

STL

FORM I/VOA TIC

3/00

NYSDOH 10142

NJDEP 73015

CTDOH PH-0554

EPA NY049

PA 66-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

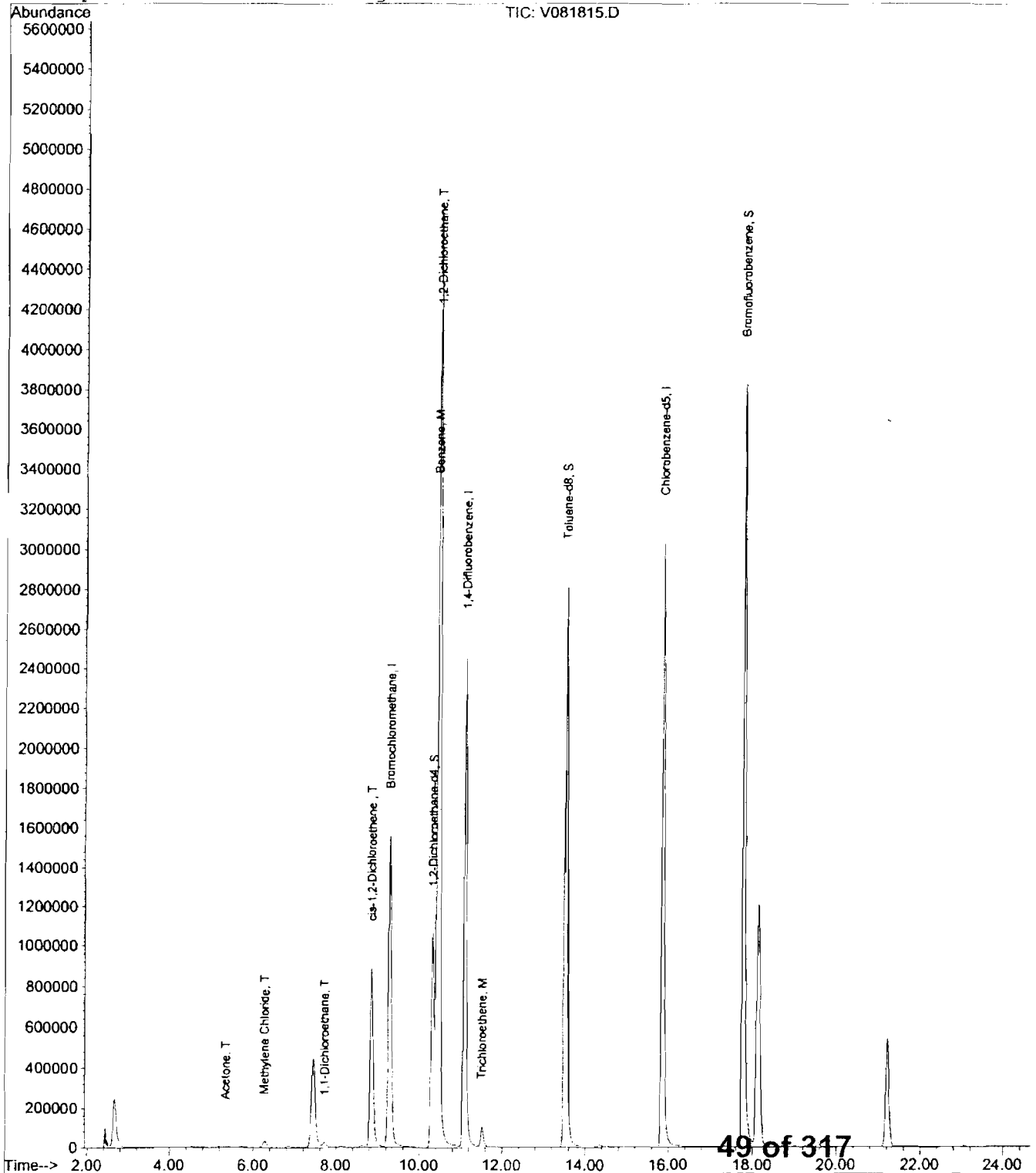
Quantitation Report

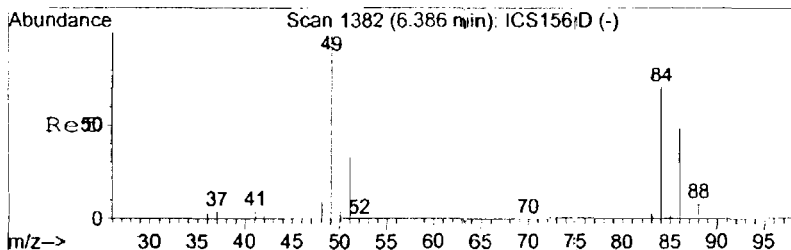
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 Sample : 251041-004,,
 Misc : MW7D-D/DUP1018,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:08 19105

Vial: 12
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

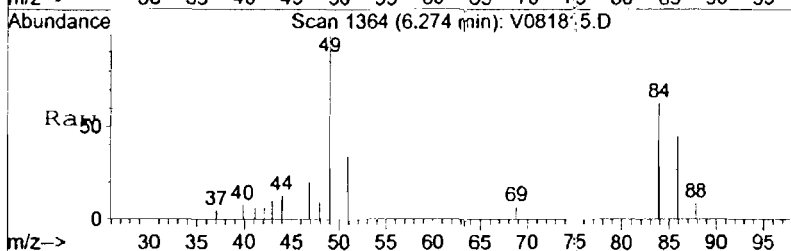
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Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
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 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D

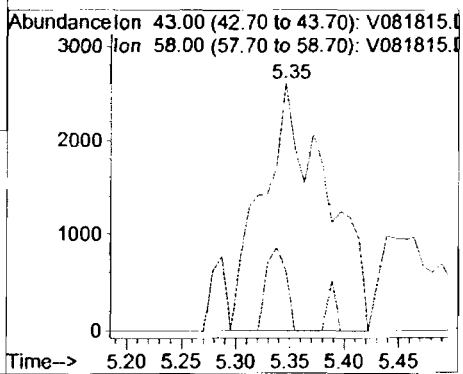
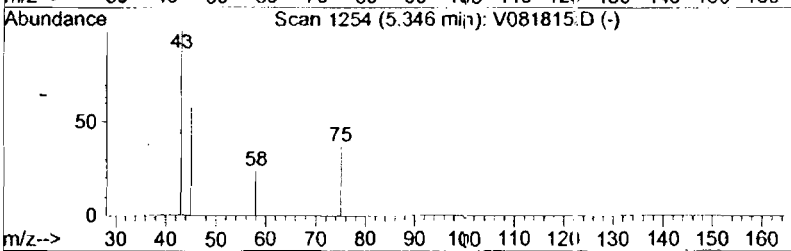
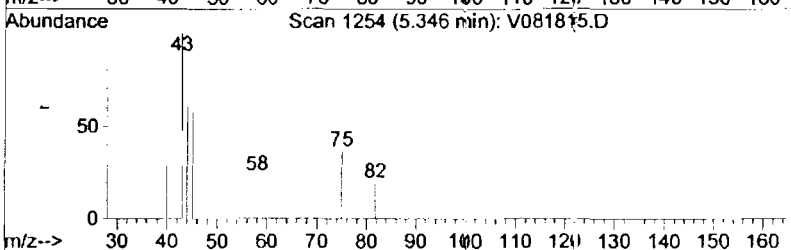
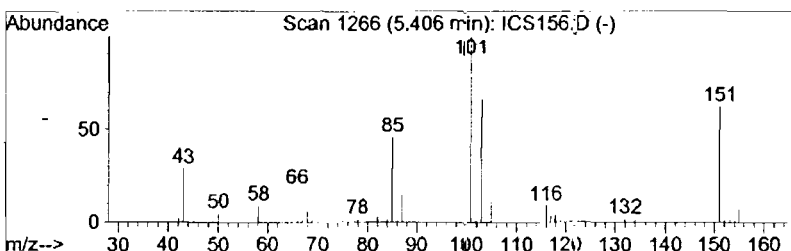
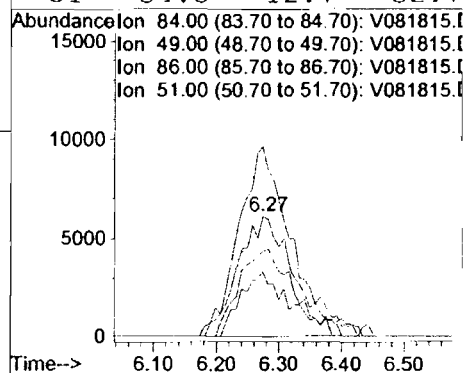
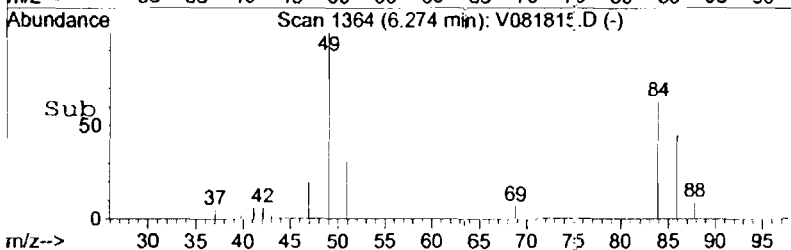


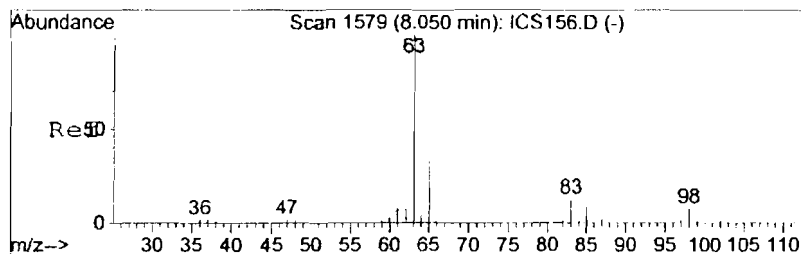


#9
Methylene Chloride
Concen: 1.39 ug/l
RT: 6.27 min Scan# 1364
Delta R.T. 0.01 min
Lab File: V081815.D
Acq: 18 Aug 2005 7:53 pm



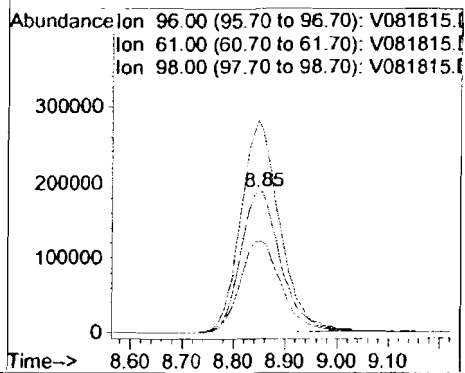
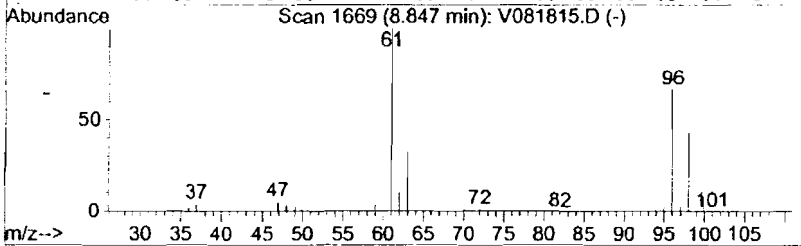
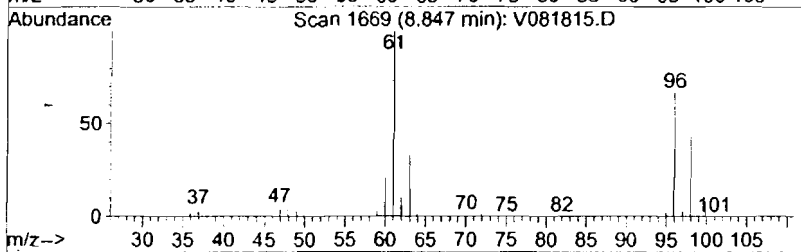
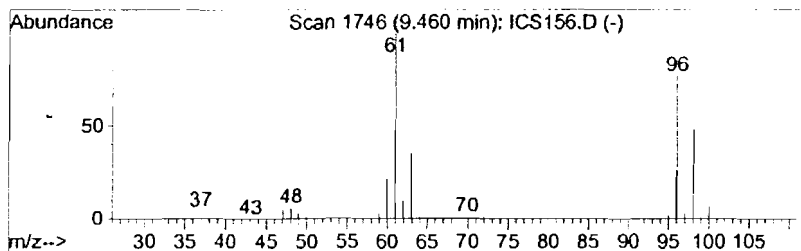
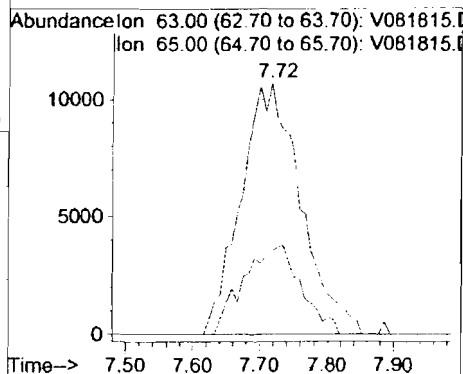
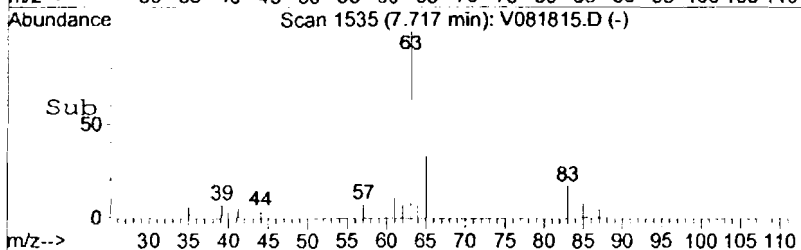
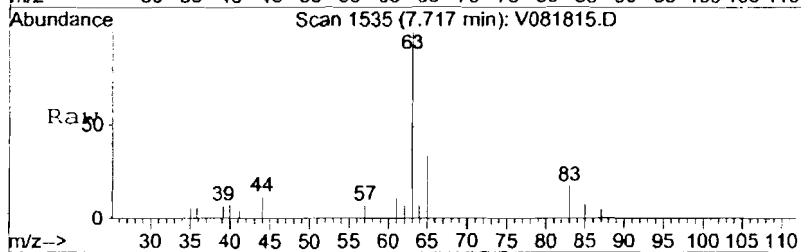
Tgt Ion: 84 Resp: 39121
Ion Ratio Lower Upper
84 100
49 157.6 80.3 120.3#
86 70.8 45.3 85.3
51 54.3 12.7 52.7#

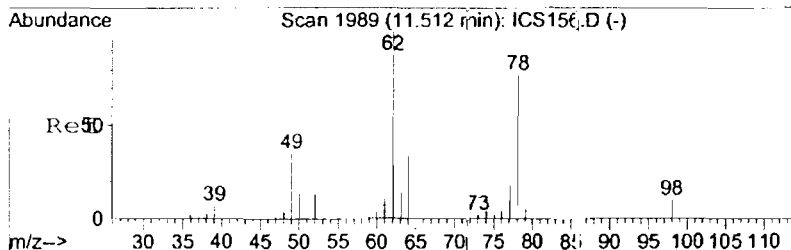




#14
 1,1-Dichloroethane
 Concen: 1.15 ug/l
 RT: 7.72 min Scan# 1535
 Delta R.T. 0.01 min
 Lab File: V081815.D
 Acq: 18 Aug 2005 7:53 pm

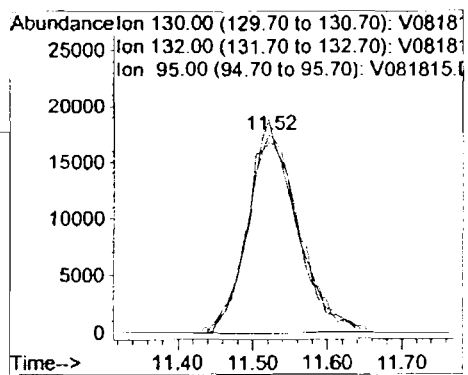
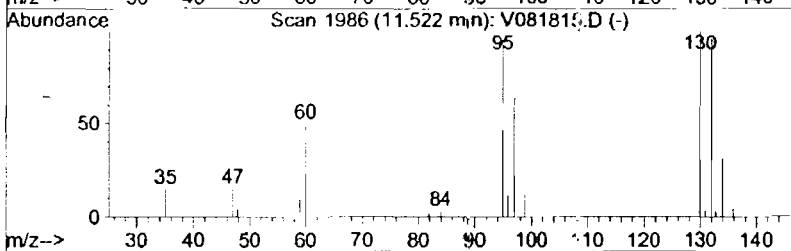
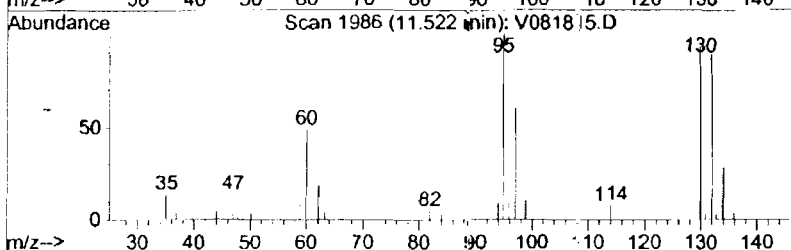
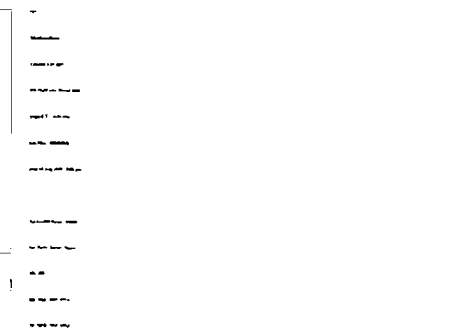
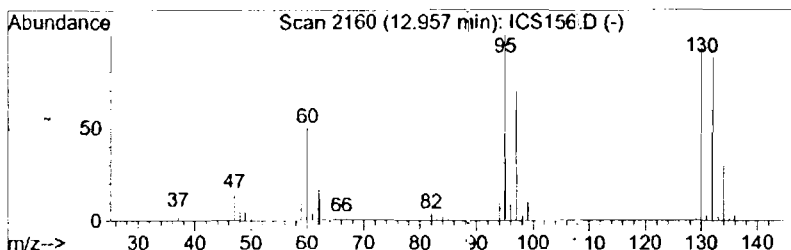
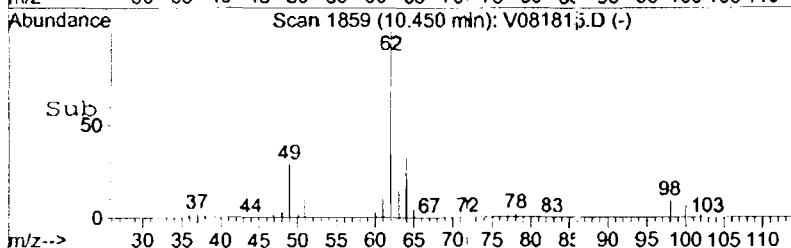
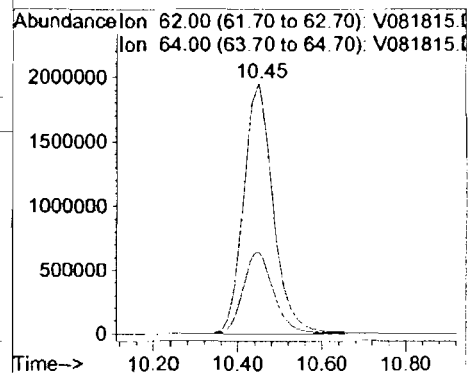
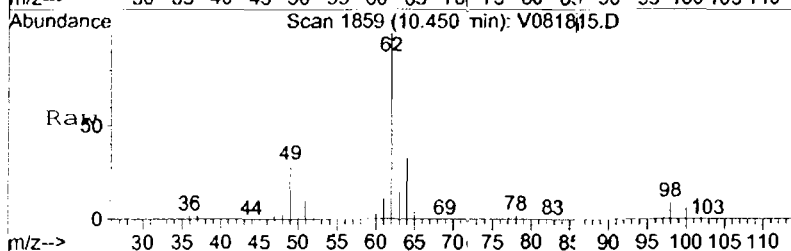
Tgt Ion: 63 Resp: 65749
 Ion Ratio Lower Upper
 63 100
 65 32.5 13.6 53.6

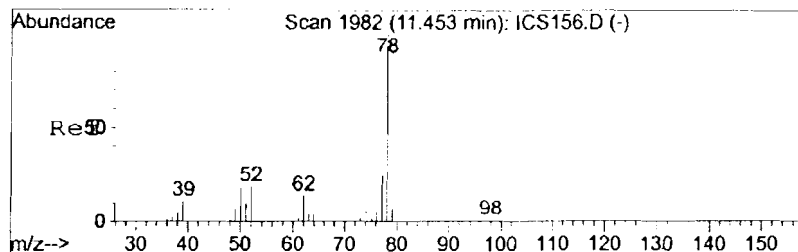




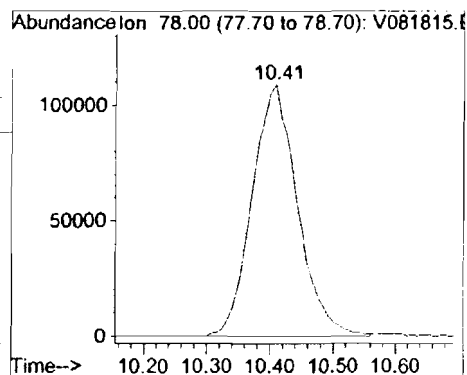
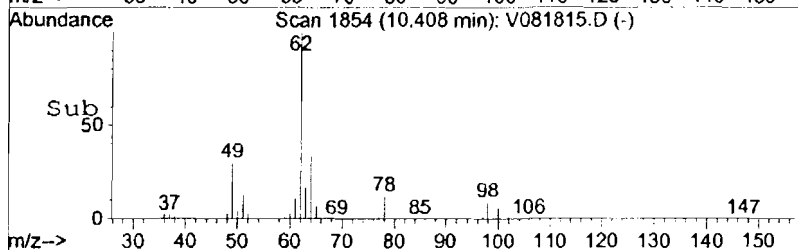
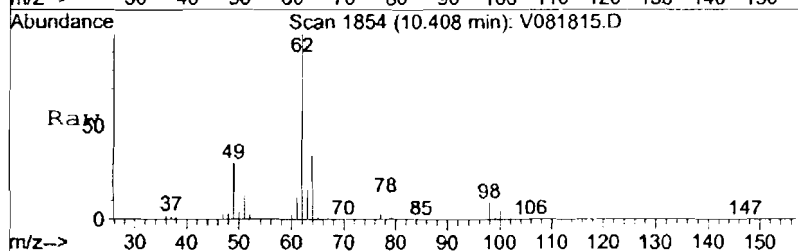
#20
 1,2-Dichloroethane
 Concen: 208.19 ug/l
 RT: 10.45 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: V081815.D
 Acq: 18 Aug 2005 7:53 pm

Tgt Ion: 62 Resp: 9603186
 Ion Ratio Lower Upper
 62 100
 64 32.8 13.9 53.9





#30
Benzene
Concen: 7.02 ug/l
RT: 10.41 min Scan# 1854
Delta R.T. -0.00 min
Lab File: V081815.D
Acq: 18 Aug 2005 7:53 pm
Tgt Ion: 78 Resp: 542825



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\V081815.D
 Acq On : 18 Aug 2005 7:53 pm
 Sample : 251041-004,,
 Misc : MW7D-D/DUP\018.,VBLK,MACTEC 95.1
 MS Integration Params: RTE\INT.P
 Quant Time: Aug 19 10:08 19105

Vial: 12
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RI

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1. 8240 and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D
 DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	Q Ion	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.28	49	1860051	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4732097	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3973301	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	1917967	47.19	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery	=	94.38%	
42) Toluene-d8	13.52	98	4527028	50.31	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery	=	100.62%	
46) Bromofluorobenzene	17.78	95	3526202	50.15	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery	=	100.30%	

Target Compounds

	R.T.	Q Ion	Response	Conc	Units	Qvalue
9) Methylene Chloride	6.27	84	39121	1.39	ug/l	# 62
10) Acetone	5.35	43	11282m	2.15	ug/l	#
14) 1,1-Dichloroethane	7.72	63	65749	1.15	ug/l	98
17) cis-1,2-Dichloroethene	8.85	96	1024397	32.09	ug/l	# 78
20) 1,2-Dichloroethane	10.45	62	9603186	208.19	ug/l	# 98
29) Trichloroethene	11.52	130	84036	2.01	ug/l	90
30) Benzene	10.41	78	542825	7.02	ug/l	100

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

V081815.D 9510818.M

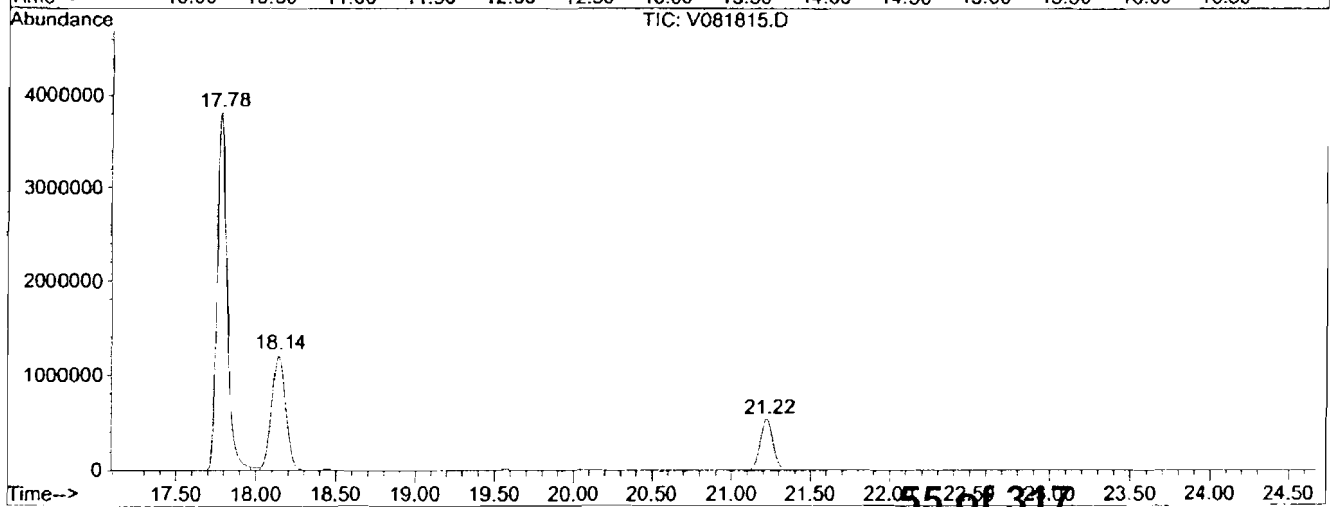
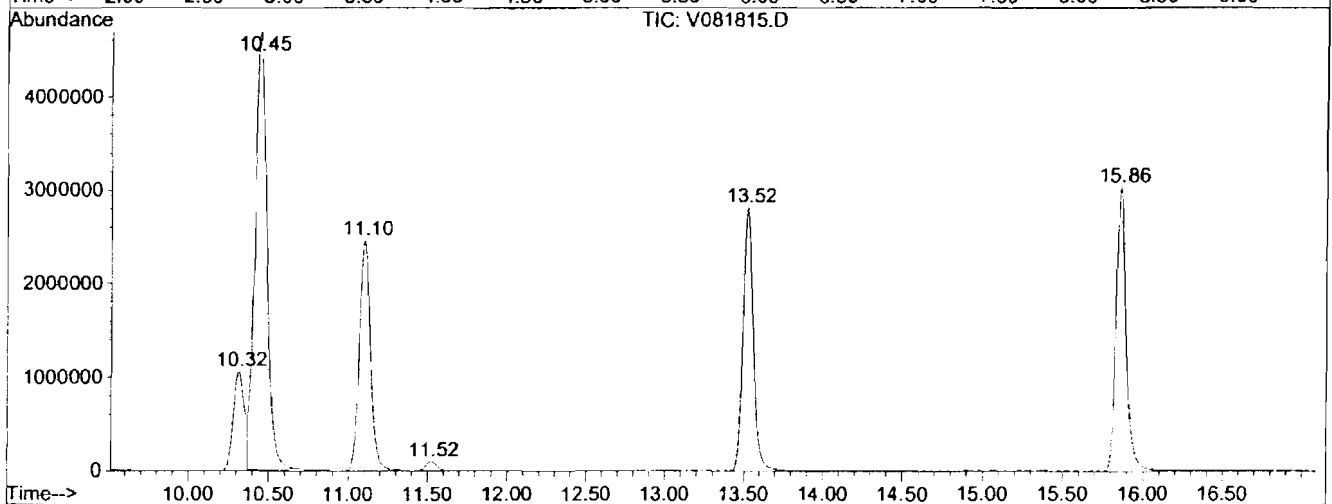
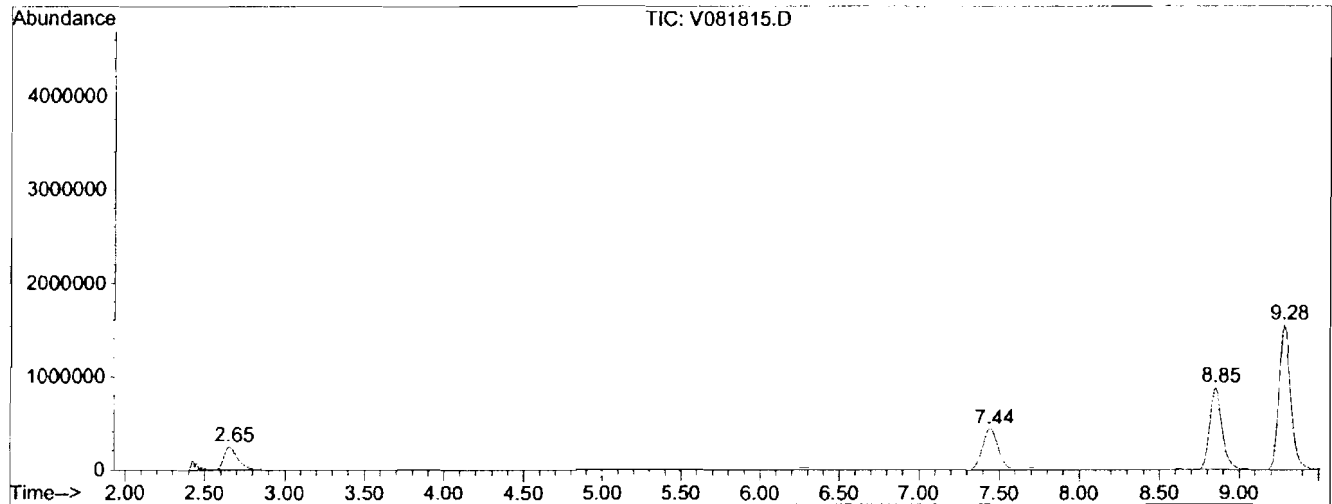
Fri Aug 19 11:02:33 2005

RPT1

Page 1

LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\V081815.D
 Operator : DMD
 Acquired : 18 Aug 2005 7:53 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-004,,
 Misc Info : MW7D-D/DUP1018,,VBLK\MACTEC 95.1
 Vial Number: 12
 Quant File : 9510818.RES (RTE Integrator)



55 of 317

Library Search Compound Report

Data File : Z:\MSD\081805.B\081815.D
 Acq On : 18 Aug 2005 7:53 pm
 Sample : 251041-004,,
 Misc : MW7D-D/DUP\018,, VBLK\MACTEC 95.1
 MS Integration Params: LSCINT.F

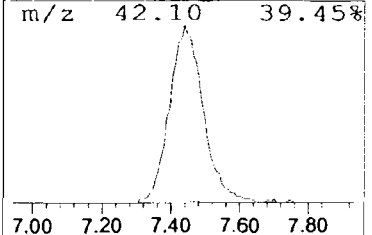
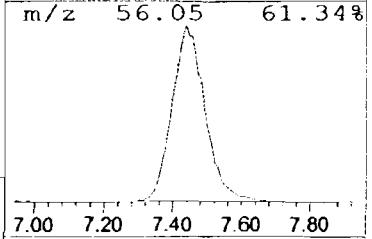
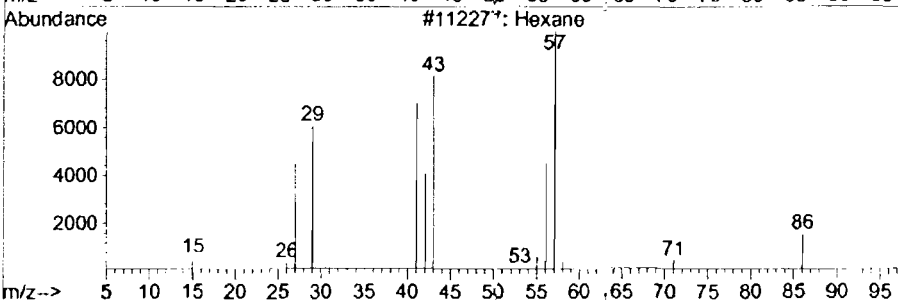
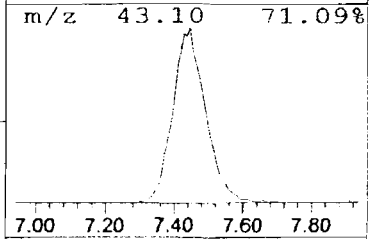
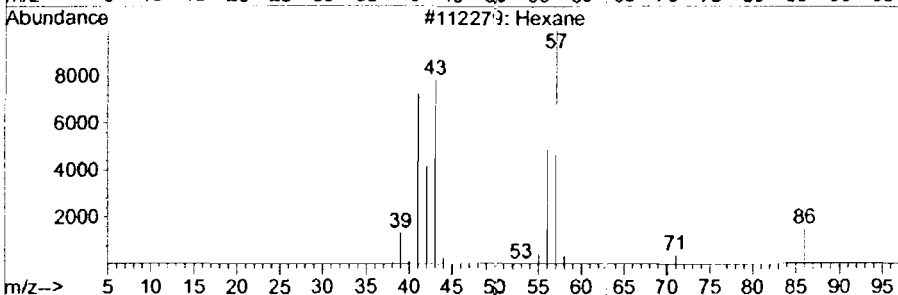
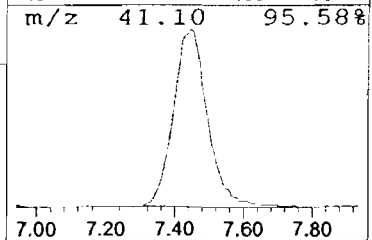
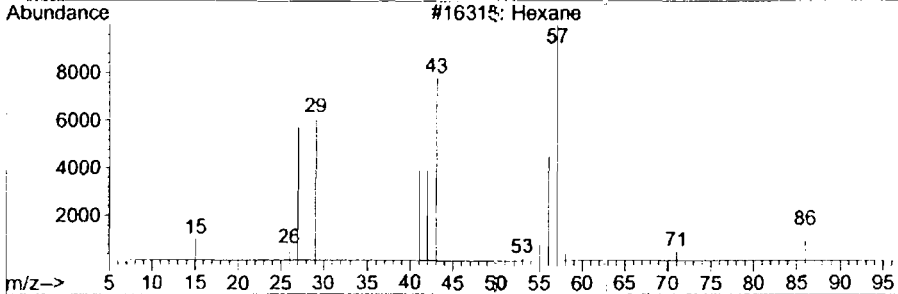
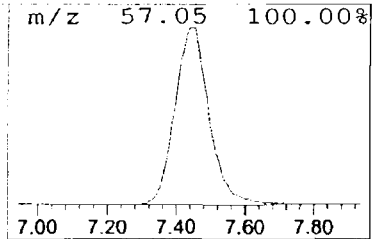
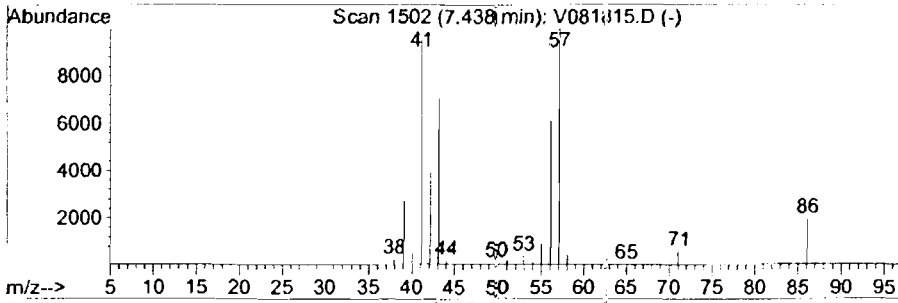
Vial: 12
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Library : C:\DATABASE\nist98.1

 Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	18.92 ug/l	3011990	Bromochloromethane	9.28

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	78
2	Hexane			86	C6H14	000110-54-3	64
3	Hexane			86	C6H14	000110-54-3	86
4	Hexane			86	C6H14	000110-54-3	25



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 7:53 pm
 Data File: Z:\MSD\081805.B\V081815.D
 Name: 251041-004,,
 Misc: MW7D-D/DUP1018,,VBLK\MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.65	9.0	ug/l	1425810	ISTD01	9.28	7960690	50.0
Hexane	7.44	18.9	ug/l	3011990	ISTD01	9.28	7960690	50.0

V081815.D 9510818.M Fri Aug 19 11:02:52 2005 RPT1

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D/DP
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-4
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	100	U		100	ug/L	08/19/05	dmd
	Bromomethane	100	U		100	ug/L	08/19/05	dmd
	Vinyl chloride	100	U		100	ug/L	08/19/05	dmd
	Chloroethane	100	U		100	ug/L	08/19/05	dmd
	Methylene chloride	100	U		100	ug/L	08/19/05	dmd
	Acetone	100	U		100	ug/L	08/19/05	dmd
	Carbon disulfide	100	U		100	ug/L	08/19/05	dmd
	1,1-Dichloroethene	100	U		100	ug/L	08/19/05	dmd
	1,1-Dichloroethane	100	U		100	ug/L	08/19/05	dmd
	Chloroform	100	U		100	ug/L	08/19/05	dmd
	1,2-Dichloroethane	270	U	D	100	ug/L	08/19/05	dmd
	2-Butanone (MEK)	100	U		100	ug/L	08/19/05	dmd
	1,1,1-Trichloroethane	100	U		100	ug/L	08/19/05	dmd
	Carbon tetrachloride	100	U		100	ug/L	08/19/05	dmd
	Bromodichloromethane	100	U		100	ug/L	08/19/05	dmd
	1,2-Dichloropropane	100	U		100	ug/L	08/19/05	dmd
	cis-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	dmd
	Trichloroethene	100	U		100	ug/L	08/19/05	dmd
	Dibromochloromethane	100	U		100	ug/L	08/19/05	dmd
	1,1,2-Trichloroethane	100	U		100	ug/L	08/19/05	dmd
	Benzene	100	U		100	ug/L	08/19/05	dmd
	trans-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	dmd
	Bromoform	100	U		100	ug/L	08/19/05	dmd
	4-Methyl-2-pentanone (MIBK)	100	U		100	ug/L	08/19/05	dmd
	2-Hexanone	100	U		100	ug/L	08/19/05	dmd
	Tetrachloroethene	100	U		100	ug/L	08/19/05	dmd
	1,1,2,2-Tetrachloroethane	100	U		100	ug/L	08/19/05	dmd
	Toluene	100	U		100	ug/L	08/19/05	dmd
	Chlorobenzene	100	U		100	ug/L	08/19/05	dmd
	Ethylbenzene	100	U		100	ug/L	08/19/05	dmd
	Styrene	100	U		100	ug/L	08/19/05	dmd
	Xylenes (total)	100	U		100	ug/L	08/19/05	dmd
	cis-1,2-Dichloroethene	40	J	D	100	ug/L	08/19/05	dmd
	trans-1,2-Dichloroethene	100	U		100	ug/L	08/19/05	dmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOH'S PH-0554

EPA NY049

PA 68-378

M-NY049

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Newburgh, NY 12550
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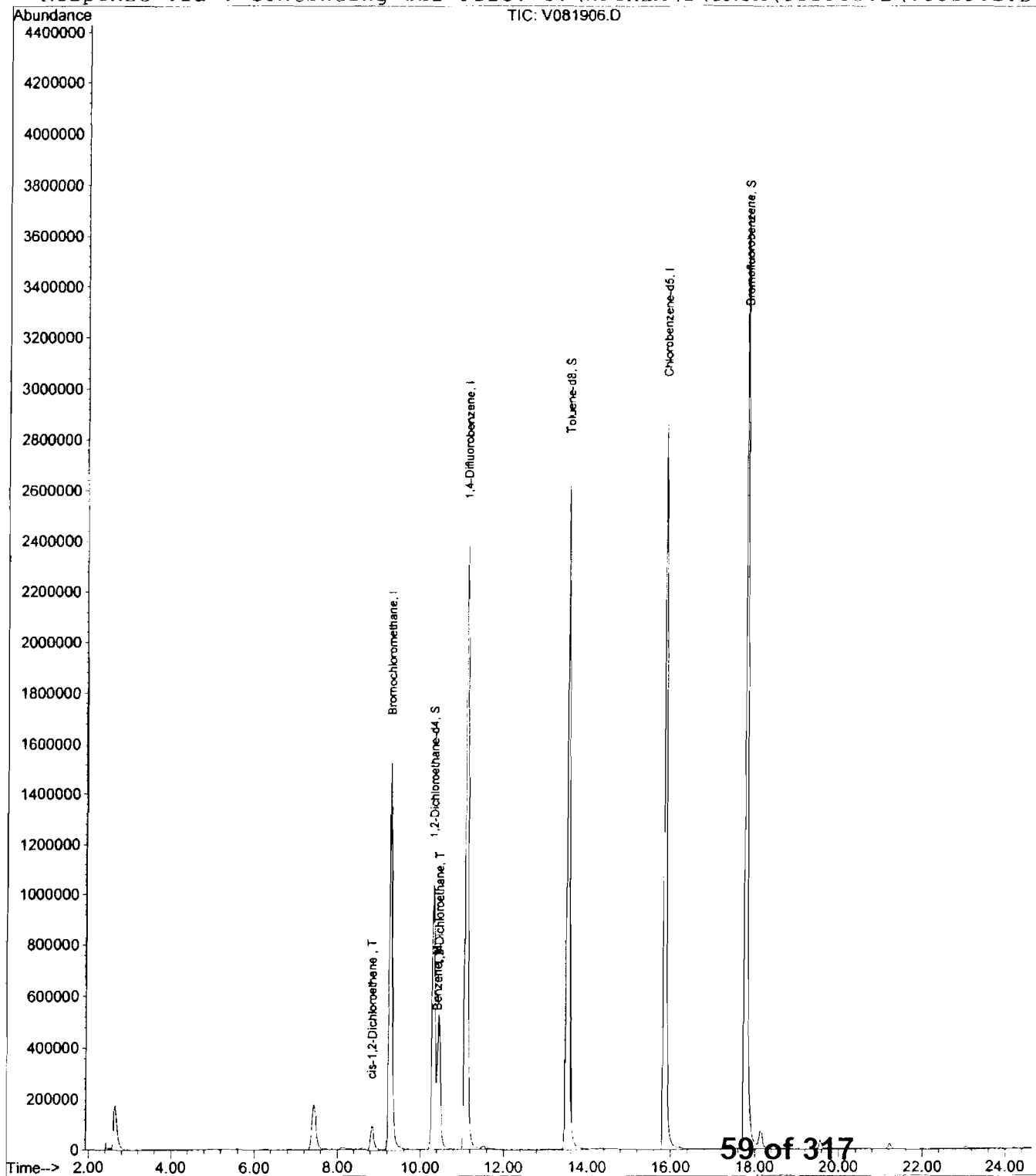
Quantitation Report

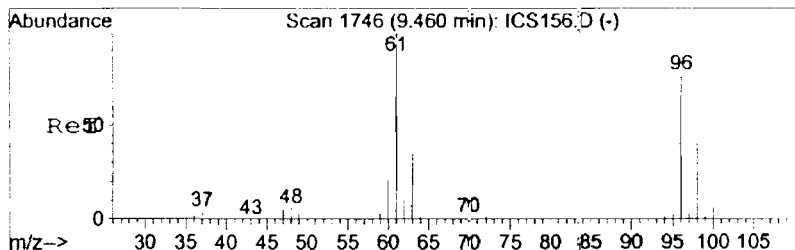
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Acq On : 19 Aug 2005 3:18 pm
Sample : 251041-004,,DL,,X10
Misc : MW7D-D/DUP|019,,VBLK|MACTEC 95.1
MS Integration Params: RTEINT.P
Quant Time: Aug 31 18:31 19105

Vial: 12
Operator: DMD
Inst : MSD
Multiplr: 1.00

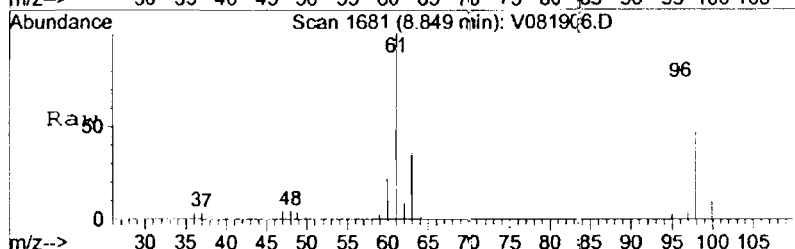
Quant Results File: 9510818.RE

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\V081902.D

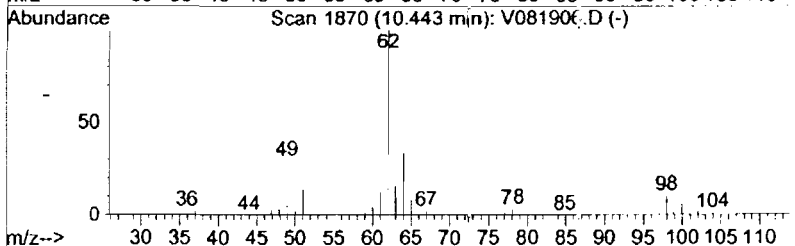
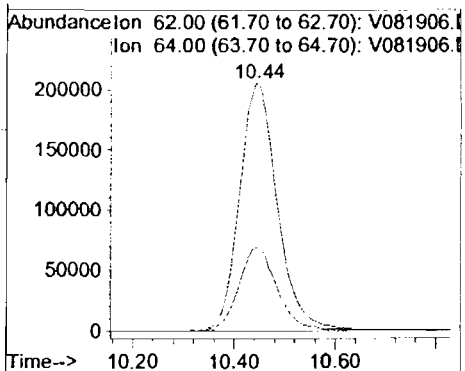
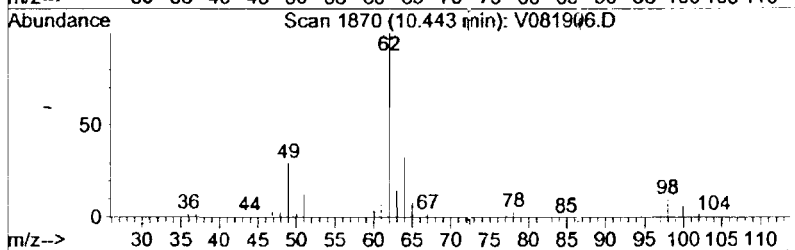
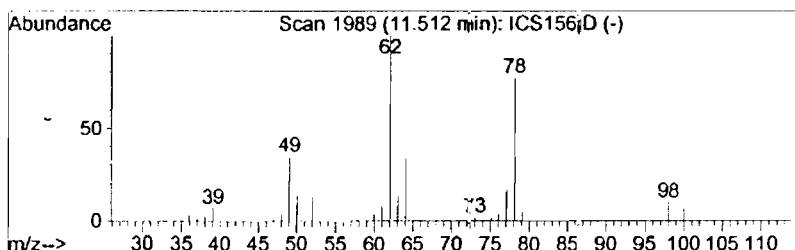
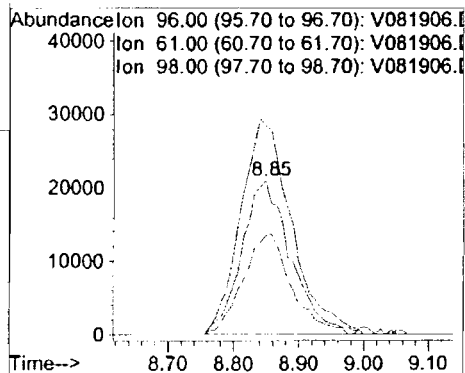
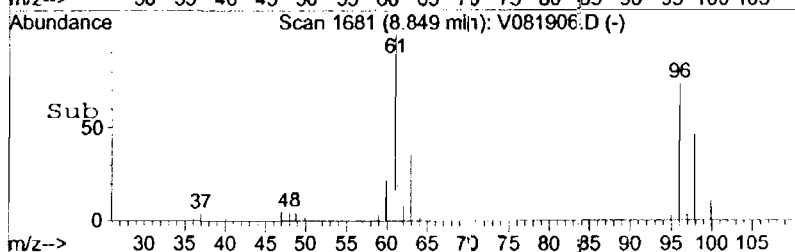




#17
 cis-1,2-Dichloroethene
 Concen: 4.00 ug/l
 RT: 8.85 min Scan# 1681
 Delta R.T. 0.01 min
 Lab File: V081906.D
 Acq: 19 Aug 2005 3:18 pm



Tgt Ion: 96 Resp: 110124
 Ion Ratio Lower Upper
 96 100
 61 135.8 95.1 135.1#
 98 64.5 47.3 87.3



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081905.B\081906.D
 Acq On : 19 Aug 2005 3:18 pm
 Sample : 251041-004,,DL,,X10
 Misc : MW7D-D/DUP\019,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:31 19105

Vial: 12
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\081902.D
 DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.27	49	1824598	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4660957	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3829209	50.00	ug/l	0.00
System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	10.31	65	1983207	48.41	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery =	96.82%		
42) Toluene-d8	13.52	98	4235090	47.06	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery =	94.12%		
46) Bromofluorobenzene	17.78	95	3354661	49.84	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	99.68%		
Target Compounds						
17) cis-1,2-Dichloroethene	8.85	96	110124	4.00	ug/l	Qvalue 87
20) 1,2-Dichloroethane	10.44	62	1062149	26.64	ug/l	99
30) Benzene	10.40	78	60730	0.93	ug/l	100

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-S
Date Sampled.....: 08/10/2005
Time Sampled.....: 13:25
Sample Matrix.....: Water

Laboratory Sample ID: 251041-5
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	clmd
	Bromomethane	10	U		10	ug/L	08/18/05	clmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	clmd
	Chloroethane	10	U		10	ug/L	08/18/05	clmd
	Methylene chloride	1.2	J		10	ug/L	08/18/05	clmd
	Acetone	3.0	J	B	10	ug/L	08/18/05	clmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	clmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	clmd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	clmd
	Chloroform	10	U		10	ug/L	08/18/05	clmd
	1,2-Dichloroethane	1.2	J		10	ug/L	08/18/05	clmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	clmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	clmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	clmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	clmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	clmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	clmd
	Trichloroethene	10	U		10	ug/L	08/18/05	clmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	clmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	clmd
	Benzene	10	U		10	ug/L	08/18/05	clmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	clmd
	Bromoform	10	U		10	ug/L	08/18/05	clmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	clmd
	2-Hexanone	10	U		10	ug/L	08/18/05	clmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	clmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	clmd
	Toluene	10	U		10	ug/L	08/18/05	clmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	clmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	clmd
	Styrene	10	U		10	ug/L	08/18/05	clmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	clmd
	cis-1,2-Dichloroethene	3.9	J		10	ug/L	08/18/05	clmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	clmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-S

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-005
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081816.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	16	JN

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STL

FORM LVOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 66-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

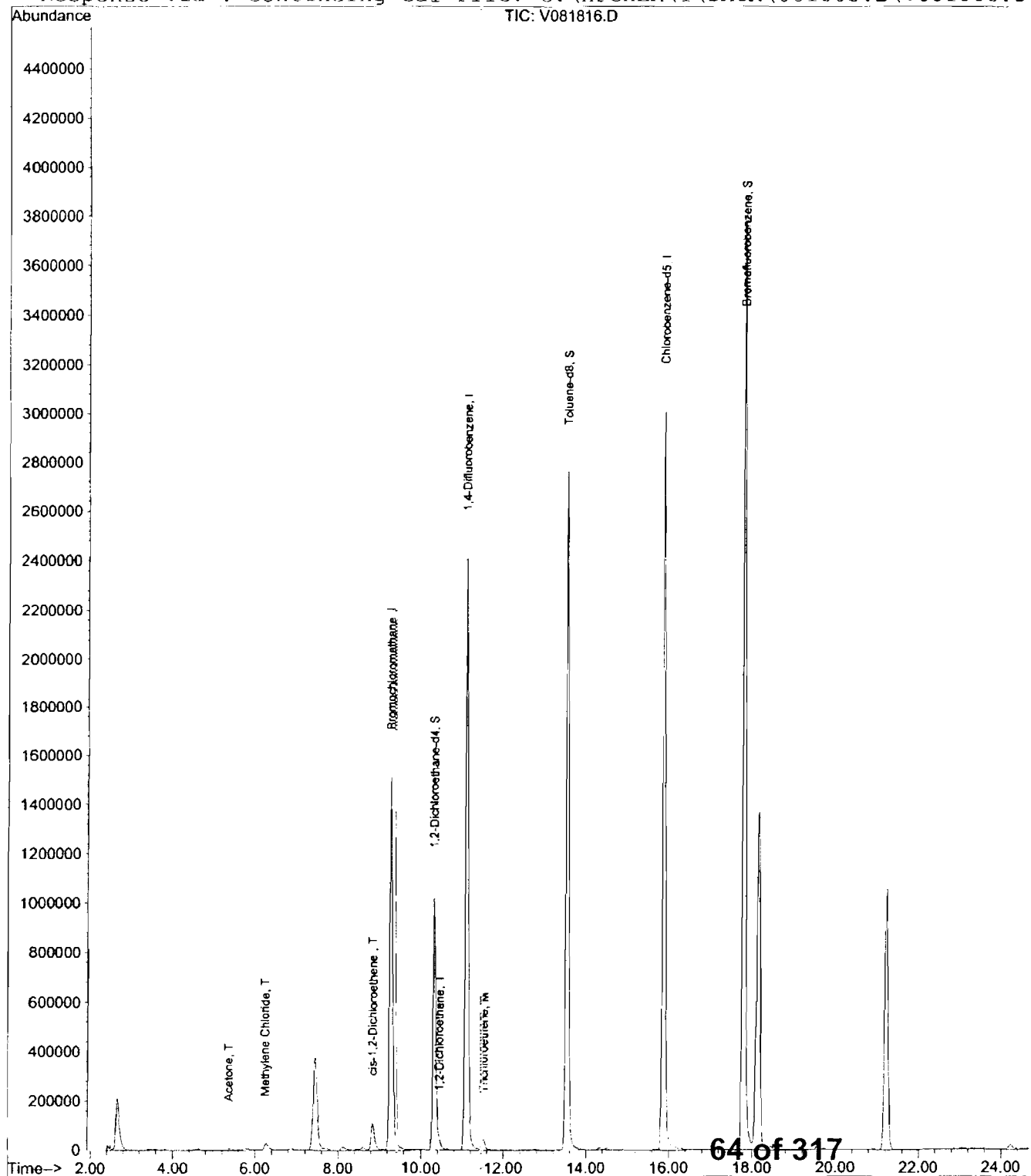
Quantitation Report

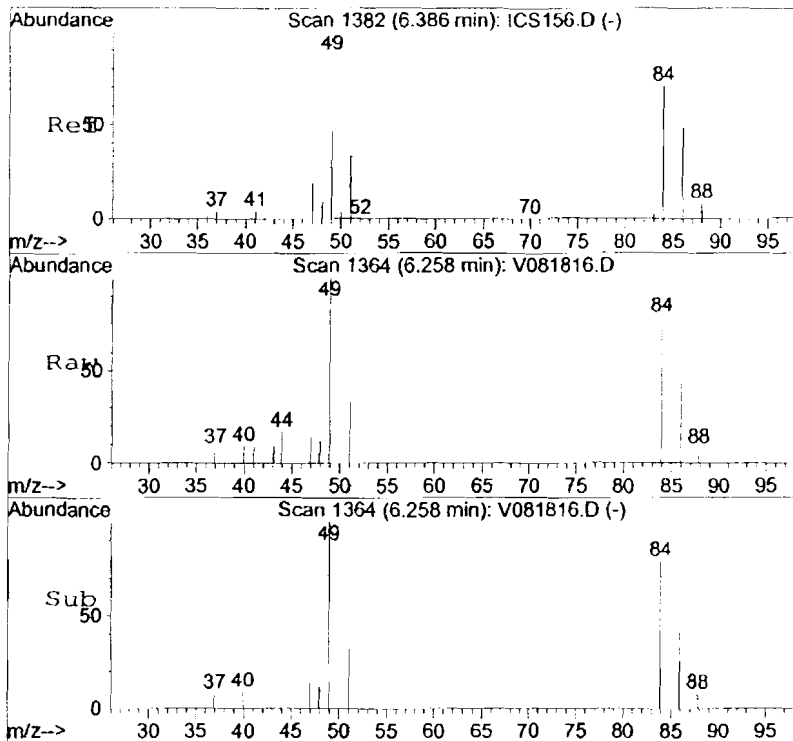
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 Acq On : 18 Aug 2005 8:23 µm
 Sample : 251041-005,,
 Misc : MW7D-S\018,,VELK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:09 19105

Vial: 13
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 824C, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\081808.D

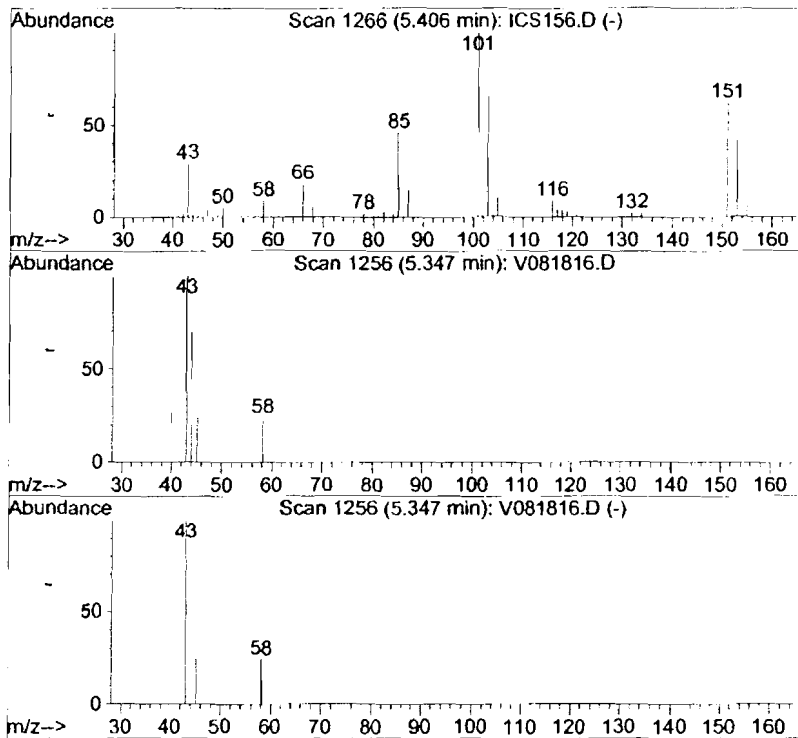
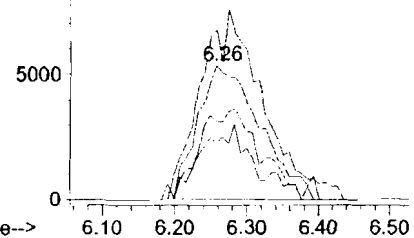




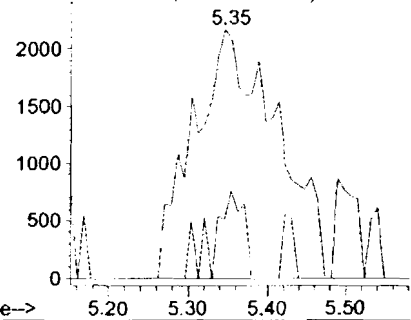
#9
Methylene Chloride
Concen: 1.19 ug/l
RT: 6.26 min Scan# 1364
Delta R.T. -0.01 min
Lab File: V081816.D
Acq: 18 Aug 2005 8:23 pm

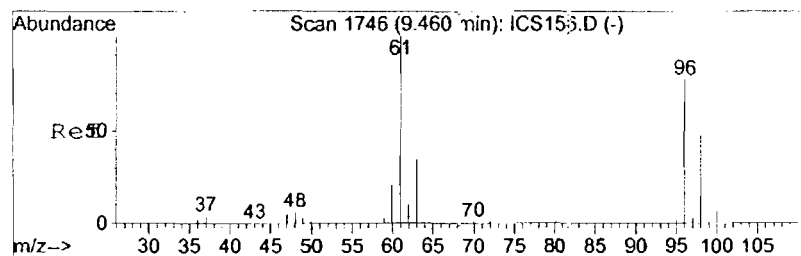
Tgt Ion:	84	Resp:	32925
Ion	Ratio	Lower	Upper
84	100		
49	126.4	80.3	120.3#
86	58.6	45.3	85.3
51	42.1	12.7	52.7

Abundance Ion 84.00 (83.70 to 84.70): V081816.D
Ion 49.00 (48.70 to 49.70): V081816.D
Ion 86.00 (85.70 to 86.70): V081816.D
Ion 51.00 (50.70 to 51.70): V081816.D



Abundance Ion 43.00 (42.70 to 43.70): V081816.D
2500 Ion 58.00 (57.70 to 58.70): V081816.D





#17

cis-1,2-Dichloroethene

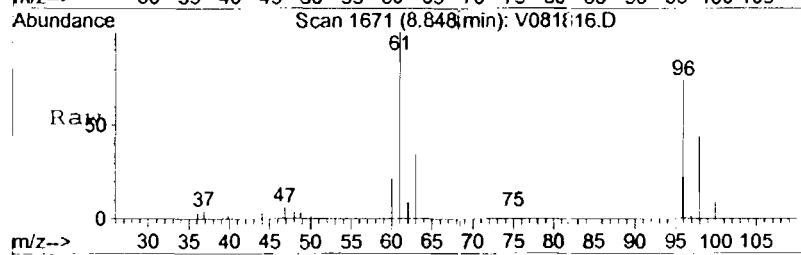
Concen: 3.92 ug/l

RT: 8.85 min Scan# 1671

Delta R.T. 0.00 min

Lab File: V081816.D

Acq: 18 Aug 2005 8:23 pm



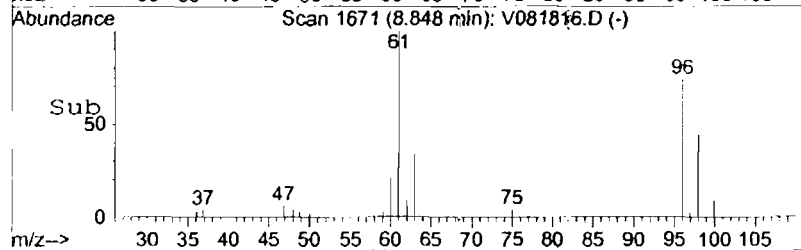
Tgt Ion: 96 Resp: 123330

Ion Ratio Lower Upper

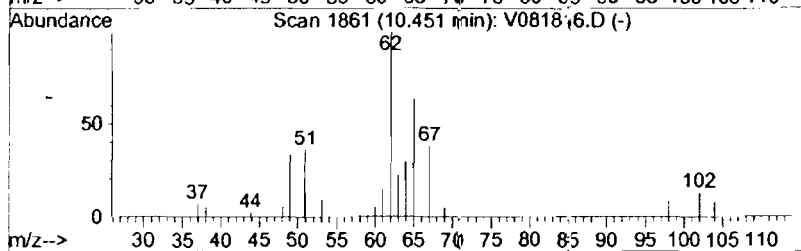
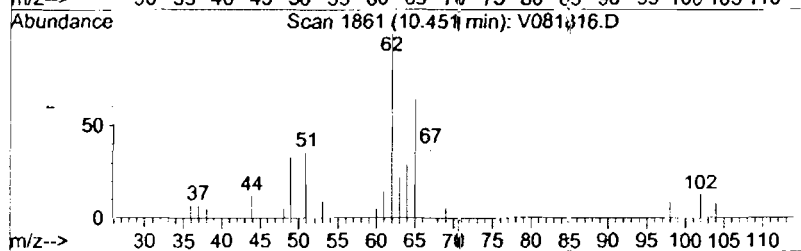
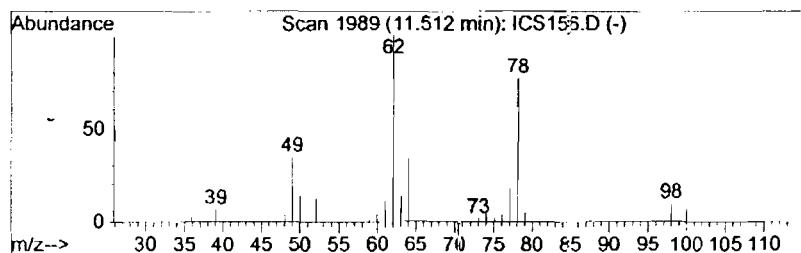
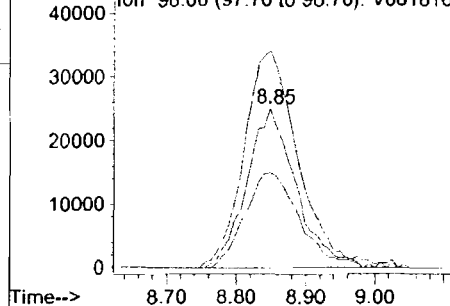
96 100

61 135.9 95.1 135.1#

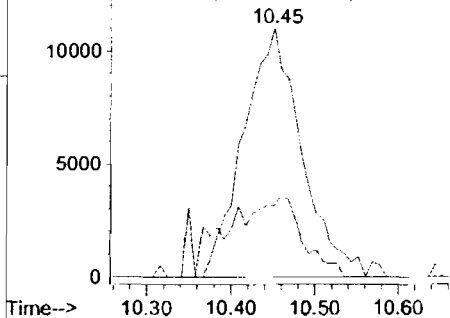
98 59.6 47.3 87.3



Abundance Ion 96.00 (95.70 to 96.70): V081816.D
Ion 61.00 (60.70 to 61.70): V081816.D
Ion 98.00 (97.70 to 98.70): V081816.D



Abundance Ion 62.00 (61.70 to 62.70): V081816.D
Ion 64.00 (63.70 to 64.70): V081816.D



Data File : Z:\MSD\081805.B\081816.D
 Acq On : 18 Aug 2005 8:23 pm
 Sample : 251041-005,,
 Misc : MW7D-S1018,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:09 19105

Vial: 13
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\081808.D
 DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.27	49	1835170	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4635690	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3934639	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	1911452	47.67	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	95.34%
42) Toluene-d8	13.52	98	4464038	50.10	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	100.20%
46) Bromofluorobenzene	17.78	95	3485560	50.06	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	100.12%

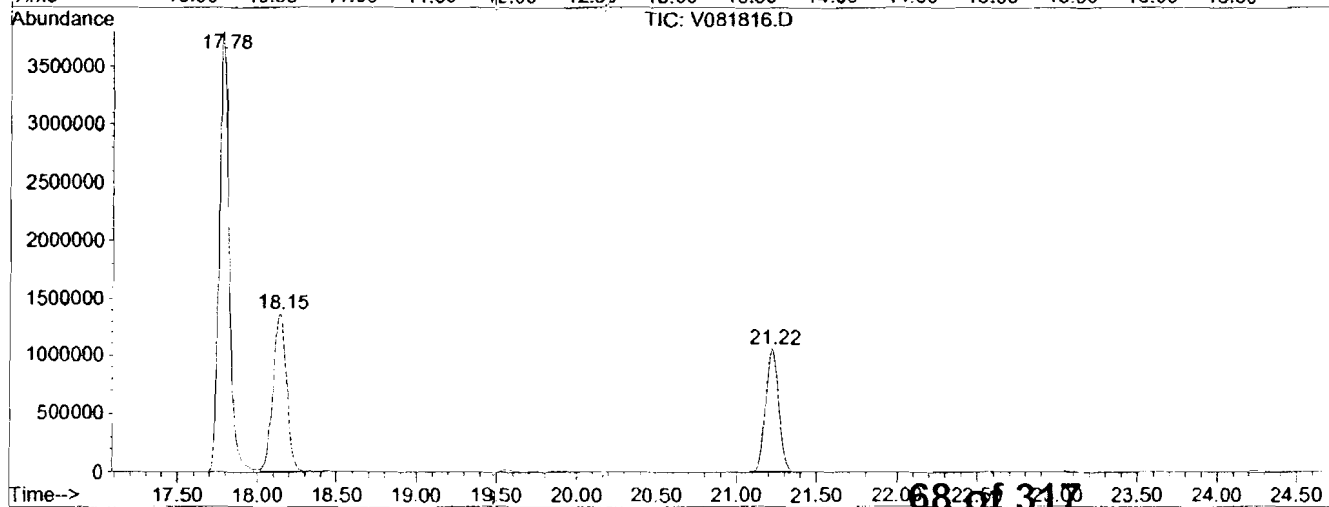
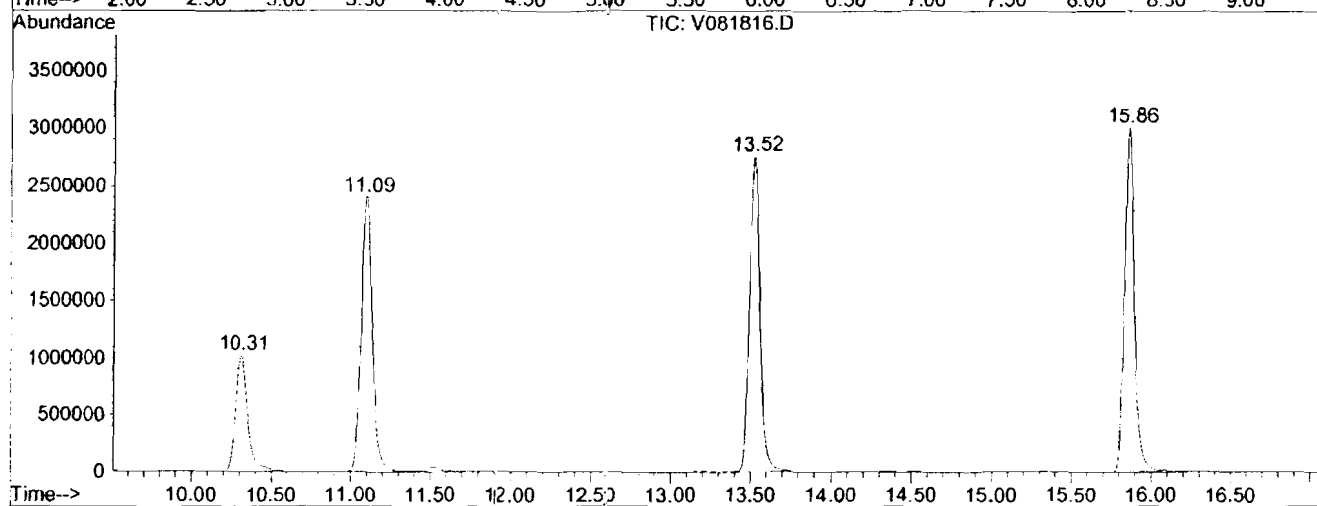
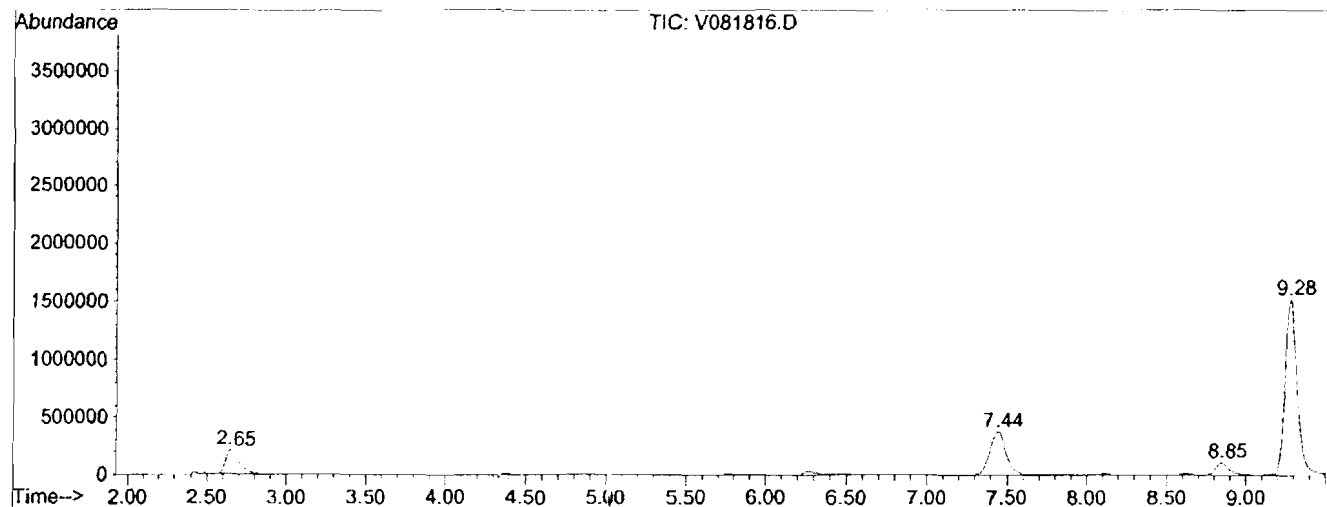
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
9) Methylene Chloride	6.26	84	32925	1.19	ug/l	# 81
10) Acetone	5.35	43	15809m	3.05	ug/l	# 81
17) cis-1,2-Dichloroethene	8.85	96	123330	3.92	ug/l	# 84
20) 1,2-Dichloroethane	10.45	62	52634	1.16	ug/l	91
29) Trichloroethene	11.52	130	34386	0.84	ug/l	94

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LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\V081816.D
 Operator : DMD
 Acquired : 18 Aug 2005 8:23 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-005,,
 Misc Info : MW7D-S1018,,VBLK\MACTEC 95.1
 Vial Number: 13
 Quant File : 9510818.RES (RTE Integrator)



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Library Search Compound Report

Data File : Z:\MSD\081805.B\081816.D
Acq On : 18 Aug 2005 8:23 pm
Sample : 251041-005,,
Misc : MW7D-S1018,,VBLK|MACTEC 95.1
MS Integration Params: LSCINT.P

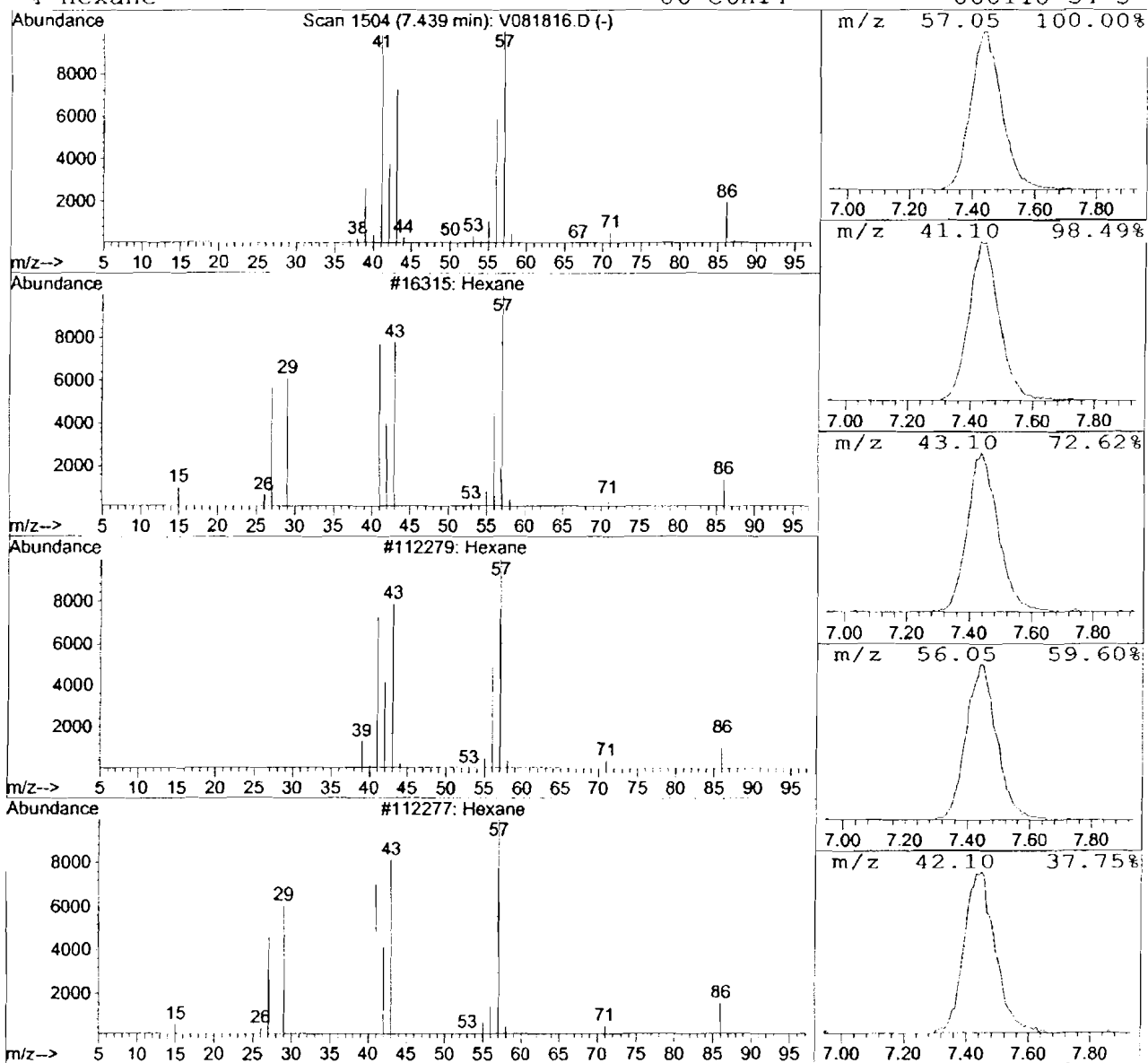
Vial: 13
Operator: DMD
Inst : MSD
Multiplier: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	16.30 ug/l	2582760	Bromochloromethane	9.27

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane		86	C6H14	000110-54-3	78
2	Hexane		86	C6H14	000110-54-3	91
3	Hexane		86	C6H14	000110-54-3	86
4	Hexane		86	C6H14	000110-54-3	50



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 8:23 pm
 Data File: Z:\MSD\081805.B\V081816.D
 Name: 251041-005,,
 Misc: MW7D-S\018,,VBLK\MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.65	7.3	ug/l	1158040	ISTD01	9.27	7922150	50.0
Hexane	7.44	16.3	ug/l	2582760	ISTD01	9.27	7922150	50.0
V081816.D 9510818.M			Fri Aug 19 11:03:26 2005			RPT1		

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW9D-1
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 13:52
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-6
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	1.8	J		10	ug/L	08/18/05	dmd
	Acetone	3.7	J	B	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmd
	Chloroform	1.8	J		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	93	U		10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	3.9	J		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	7.3	J		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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SEVERN
TRENT STL

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW9D-1

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-006
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081817.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. _____ Date Analyzed: 8/18/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.45	18	JN

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STL

FORM 1 VOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 66-378

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

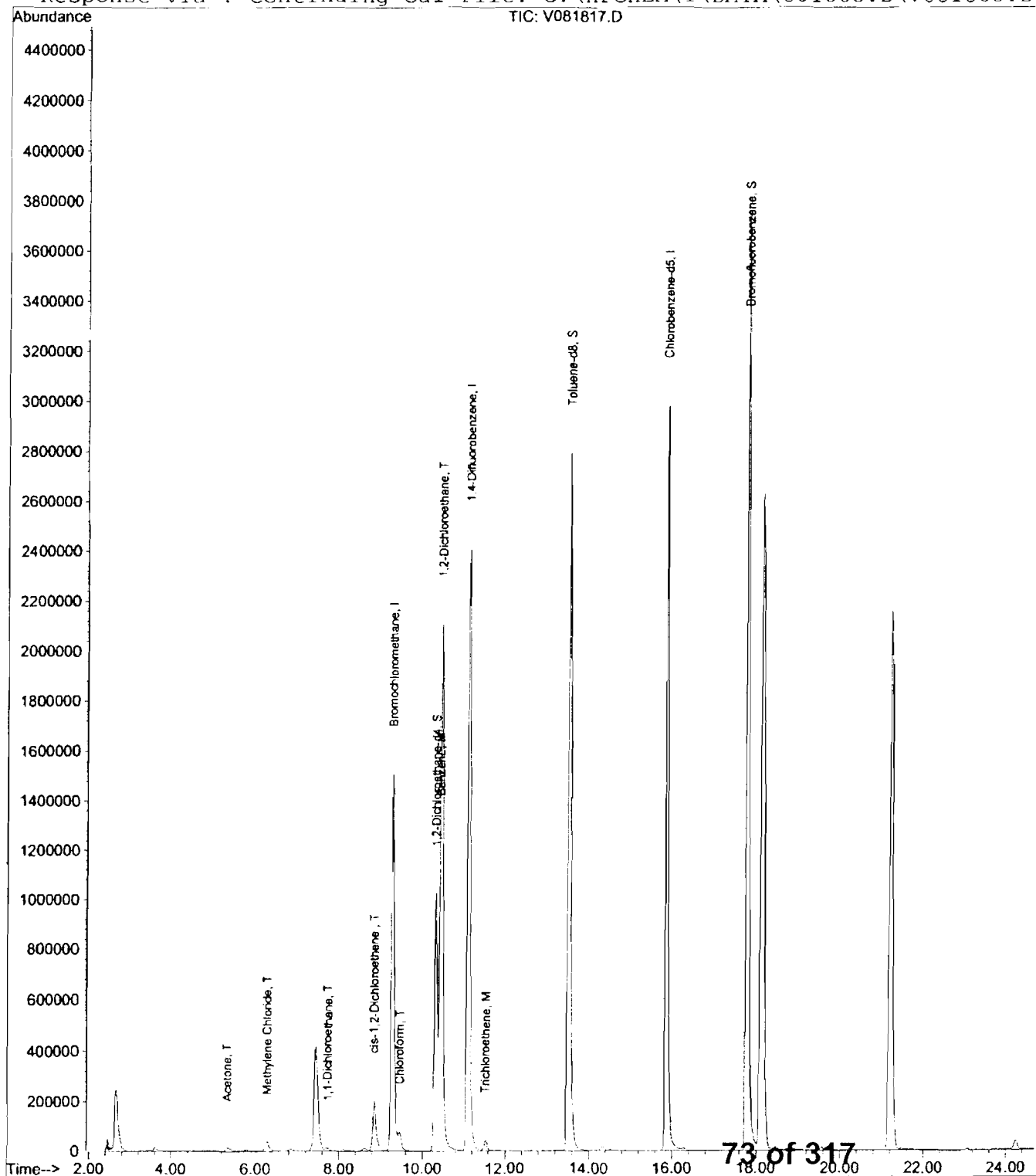
Quantitation Report

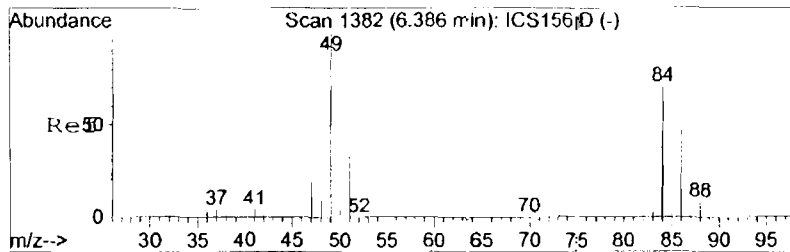
Data File : Z:\MSD\081805.B\V081817.D
 Acq On : 18 Aug 2005 8:53 pm
 Sample : 251041-006,,
 Misc : MW9D-1\018,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:11 19105

Vial: 14
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D





#9

Methylene Chloride

Concen: 1.79 ug/l

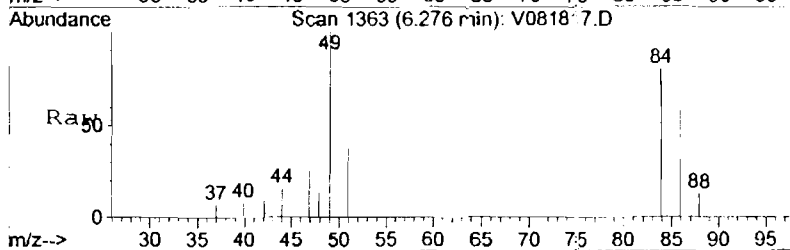
RT: 6.28 min Scan# 1363

Delta R.T. 0.01 min

Lab File: V081817.D

Acq: 18 Aug 2005 8:53 pm

Tgt Ion:	84	Resp:	49558
Ion	Ratio	Lower	Upper
84	100		
49	124.5	80.3	120.3#
86	74.5	45.3	85.3
51	46.8	12.7	52.7

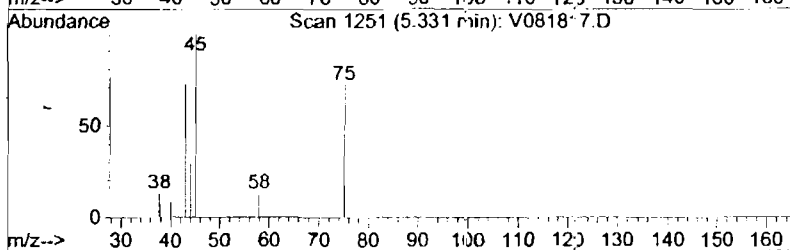
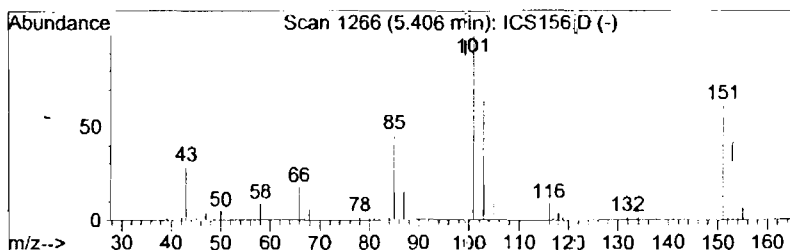
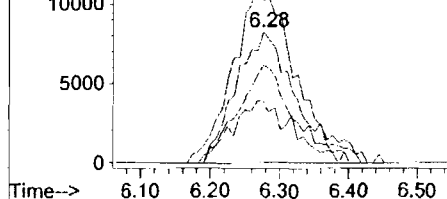
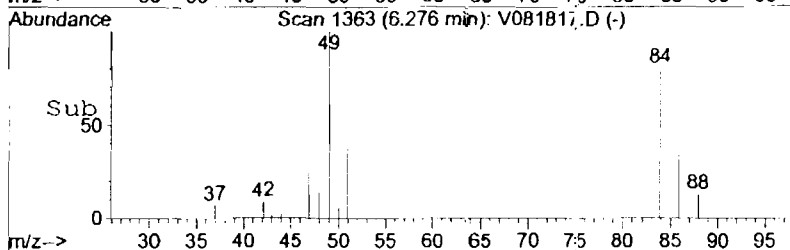


Abundance Ion 84.00 (83.70 to 84.70): V081817.D

Ion 49.00 (48.70 to 49.70): V081817.D

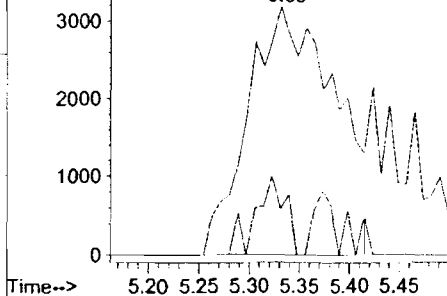
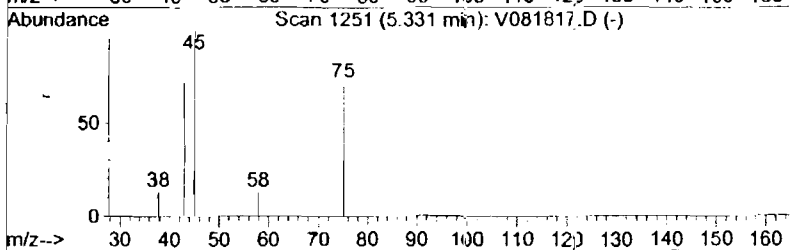
Ion 86.00 (85.70 to 86.70): V081817.D

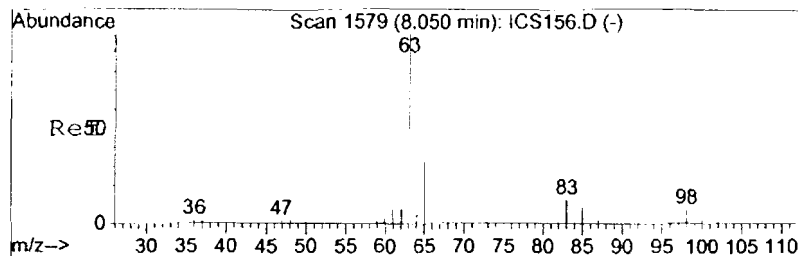
Ion 51.00 (50.70 to 51.70): V081817.D



Abundance Ion 43.00 (42.70 to 43.70): V081817.D

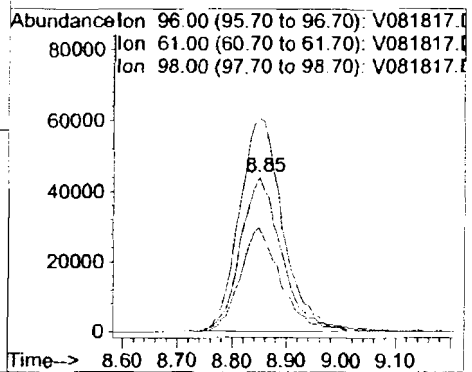
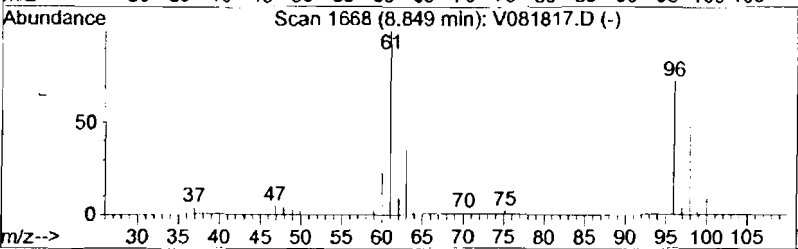
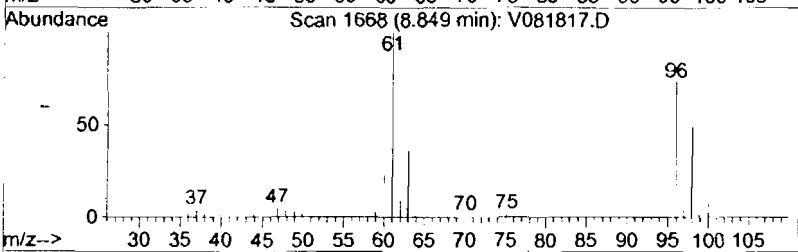
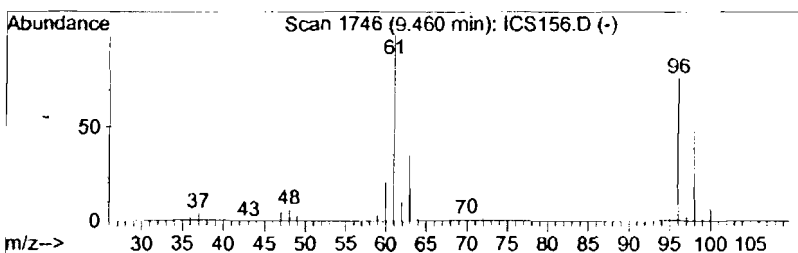
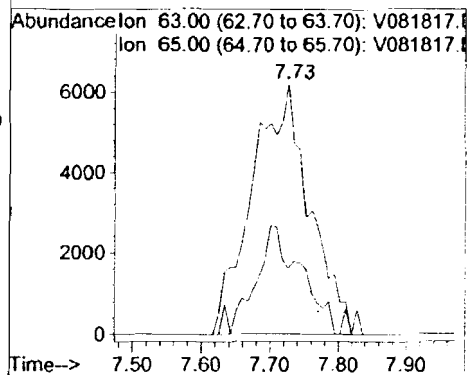
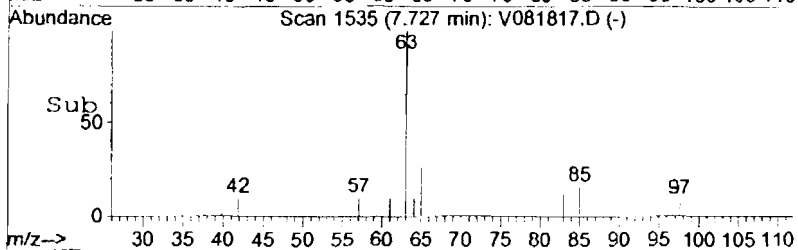
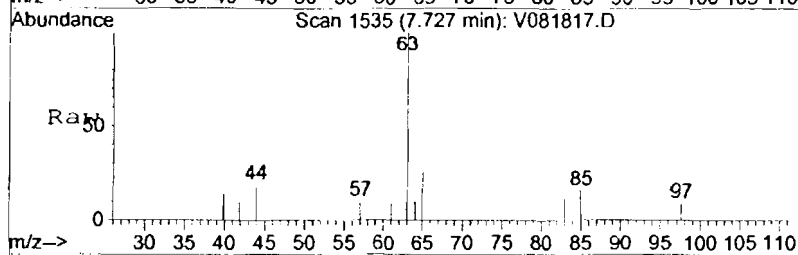
Ion 58.00 (57.70 to 58.70): V081817.D

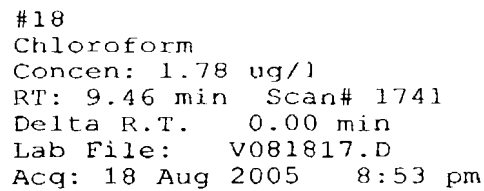




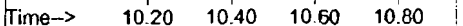
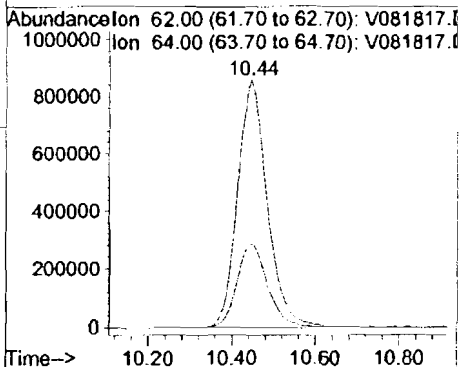
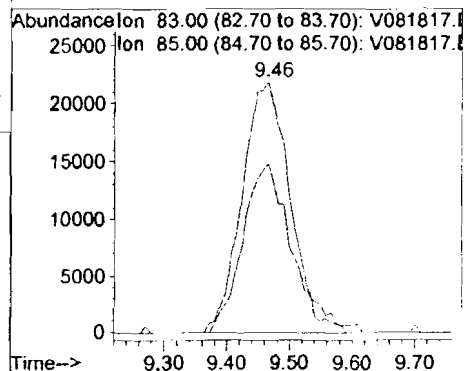
#14
1,1-Dichloroethane
Concen: 0.64 ug/l m
RT: 7.73 min Scan# 1535
Delta R.T. 0.02 min
Lab File: V081817.D
Acq: 18 Aug 2005 8:53 pm

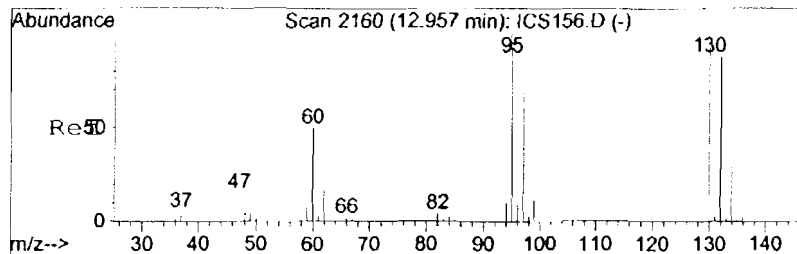
Tgt Ion: 63 Resp: 36220
Ion Ratio Lower Upper
63 100
65 60400.0 13.6 53.6#





Tgt Ion: 83	Resp: 119417
Ion Ratio Lower	Upper
83 100	
85 67.6	47.2 87.2





#29

Trichloroethene

Concen: 0.84 ug/l

RT: 11.51 min Scan# 1984

Delta R.T. -0.01 min

Lab File: V081817.D

Acq: 18 Aug 2005 8:53 pm

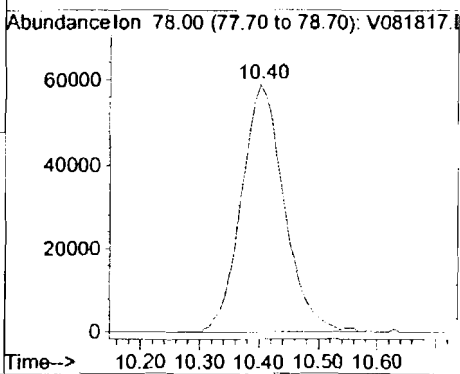
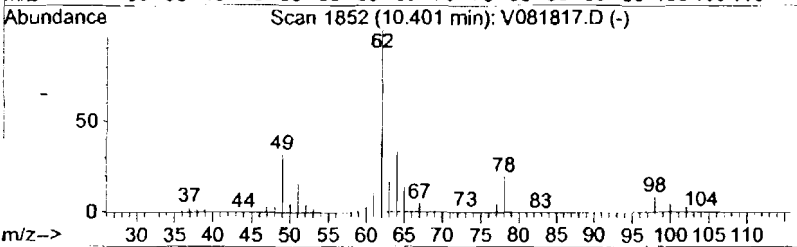
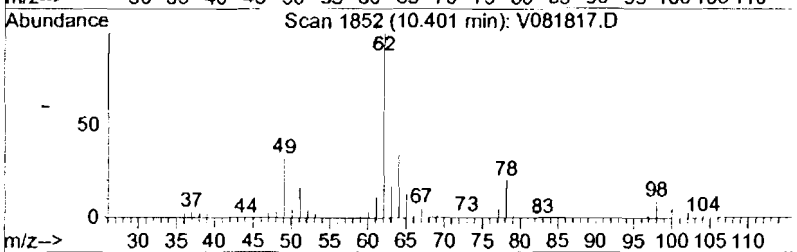
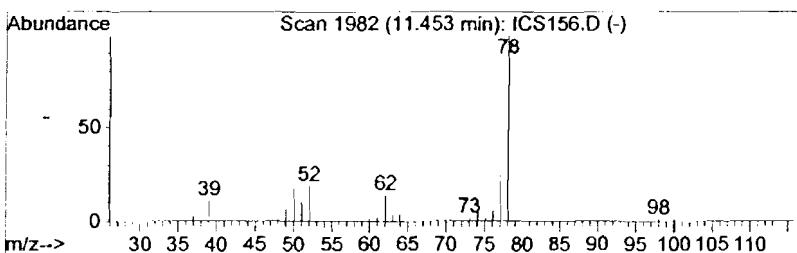
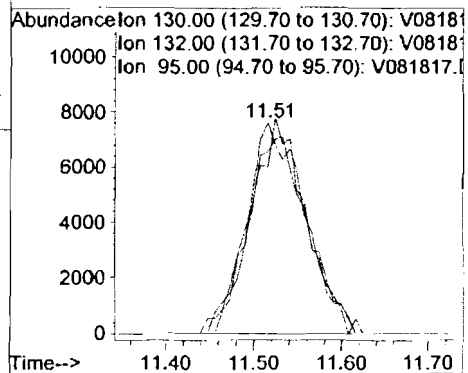
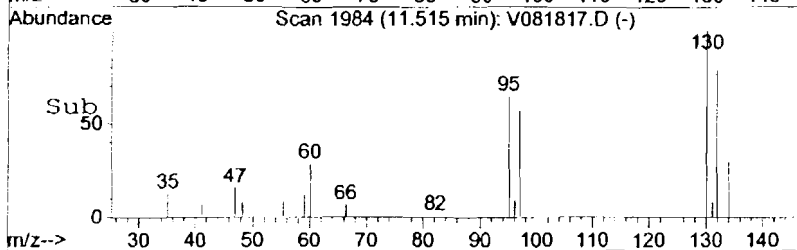
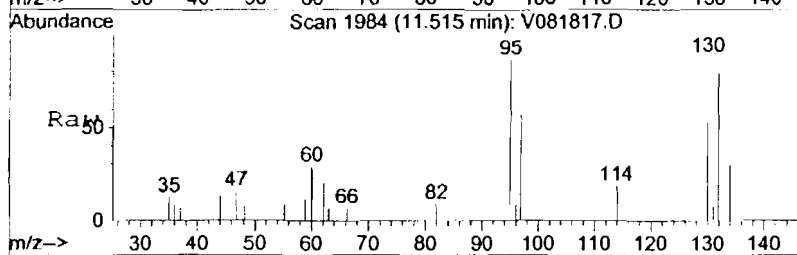
Tgt Ion: 130 Resp: 34732

Ion Ratio Lower Upper

130 100

132 78.8 79.9 119.9#

95 86.0 71.7 111.7



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\V081817.D
 Acq On : 18 Aug 2005 8:53 pm
 Sample : 251041-006,,
 Misc : MW9D-11018,,VBLK\MACTEC 95.1
 MS Integration Params: RTE\INT.P
 Quant Time: Aug 19 10:11 15105

Vial: 14
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.R1

Quant Method : C:\HPCHEM\1\DATA\C81805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D
 DataAcq Meth : 9510818

DMD 8/13/05

Internal Standards	F.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1834678	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4669516	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3944421	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	1898200	47.35	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	94.70%
42) Toluene-d8	13.52	98	4430036	49.59	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	99.18%
46) Bromofluorobenzene	17.78	95	3452184	49.46	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	98.92%

Target Compounds

						Qvalue
9) Methylene Chloride	6.28	84	49558	1.79	ug/l	# 80
10) Acetone	5.33	43	19246	3.72	ug/l	# 86
14) 1,1-Dichloroethane	7.73	63	36220m Dm	0.64	ug/l	
17) cis-1,2-Dichloroethene	8.85	96	231044	7.34	ug/l	# 87
18) Chloroform	9.46	83	119417	1.78	ug/l	100
20) 1,2-Dichloroethane	10.44	62	4211803	92.57	ug/l	99
29) Trichloroethene	12.51	130	34732	0.84	ug/l	# 86
30) Benzene	10.40	78	297402	3.90	ug/l	100

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

V081817.D 9510818.M

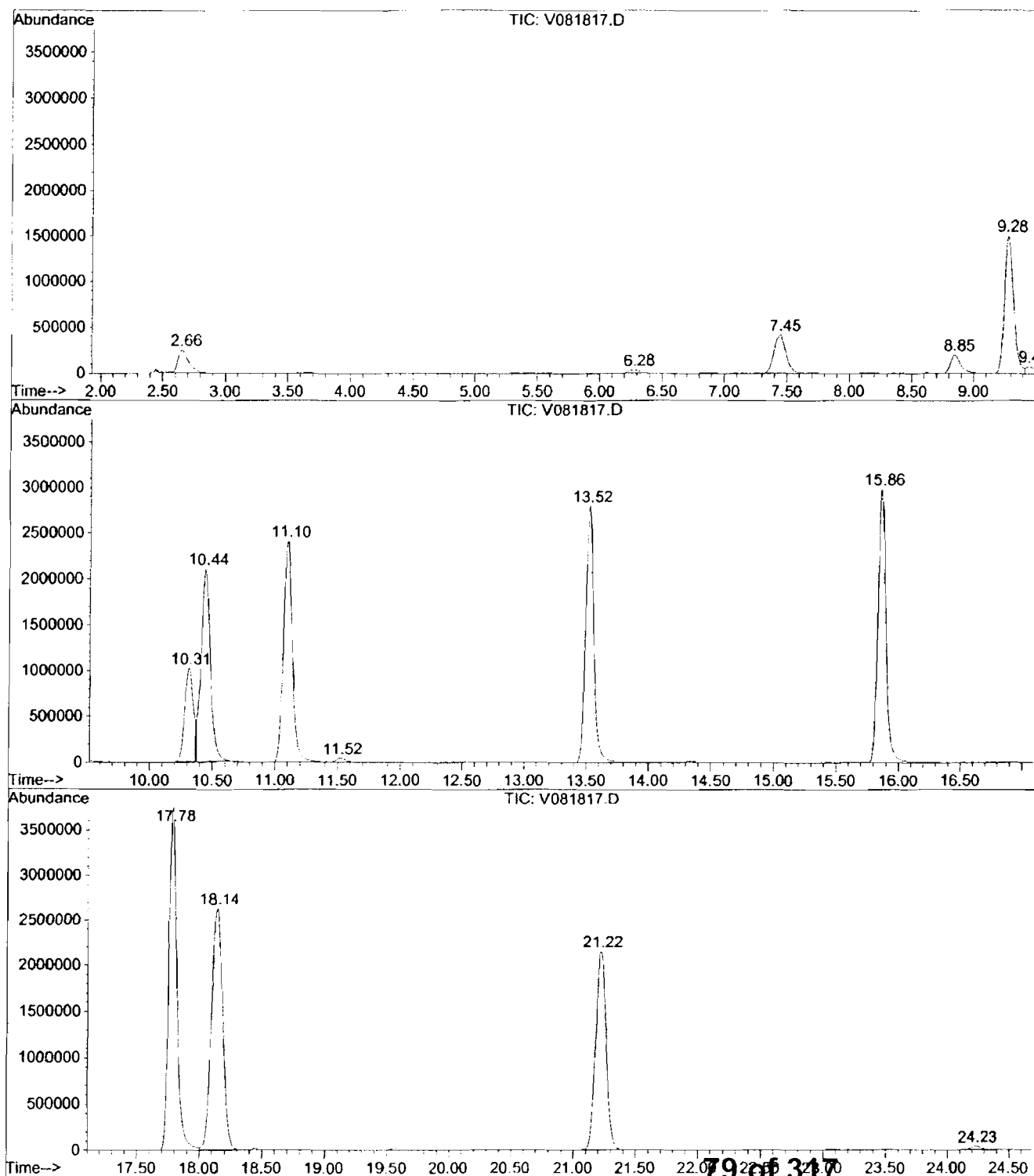
Fri Aug 19 11:03:41 2005

RPT1

Page 1

LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\V081817.D
 Operator : DMD
 Acquired : 18 Aug 2005 8:53 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-006,,
 Misc Info : MW9D-11018,,VBLK|MACTEC 95.1
 Vial Number: 14
 Quant File : 9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081805.B\081817.D
Acq On : 18 Aug 2005 8:53 pm
Sample : 251041-006,,
Misc : MW9D-11018,,\BLK\MACTEC 95.1
MS Integration Params: LSCINT.P

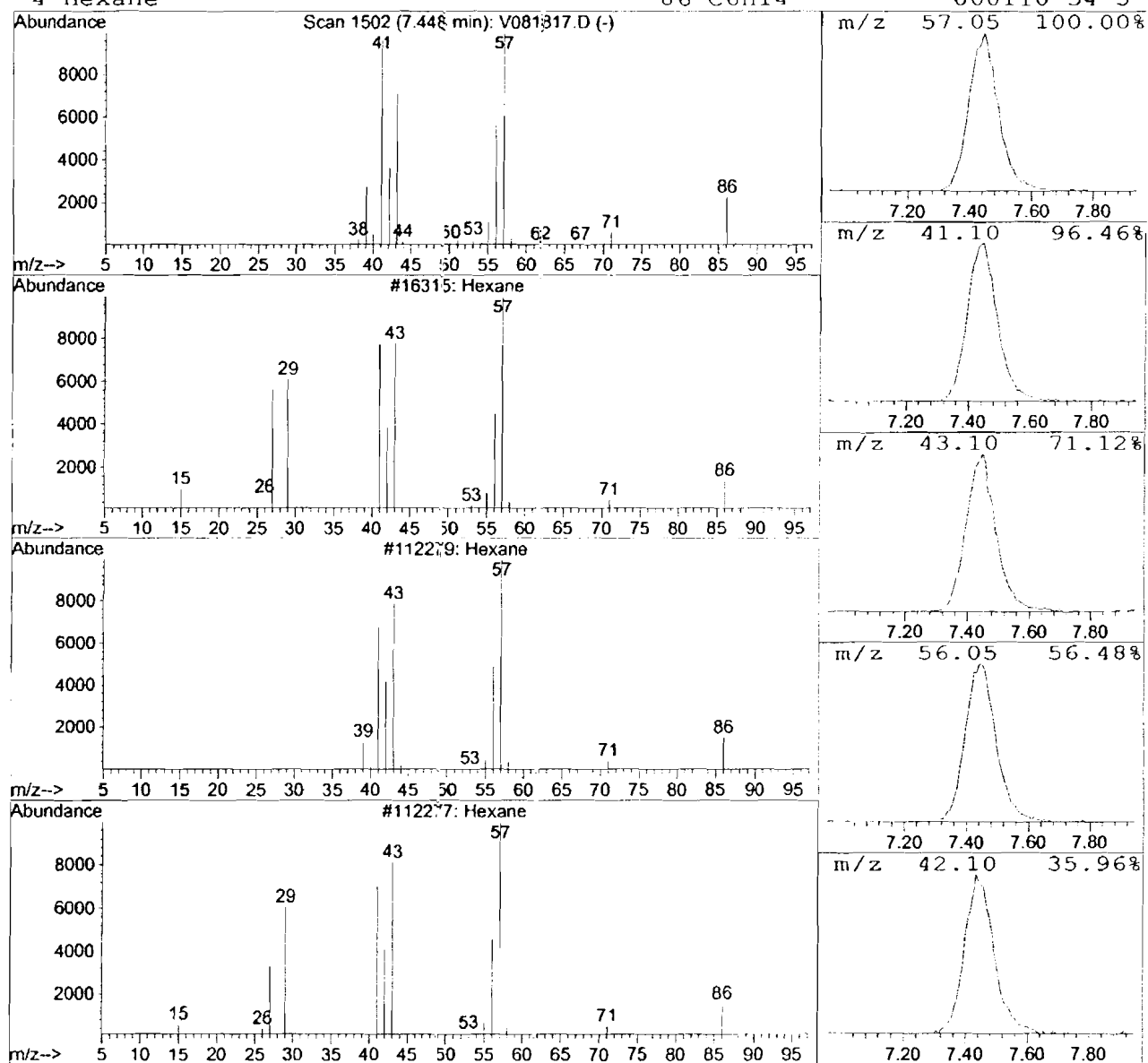
Vial: 14
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.45	18.26 ug/l	2826190	Bromochloromethane	9.28

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	43
2	Hexane			86	C6H14	000110-54-3	56
3	Hexane			86	C6H14	000110-54-3	43
4	Hexane			86	C6H14	000110-54-3	40



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 8:53 pm
 Data File: Z:\MSD\081805.B\V081817.D
 Name: 251041-006,,
 Misc: MW9D-11018,,VBLK|MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.66	9.4	ug/l	1448380	ISTD01	9.28	7740530	50.0
Hexane	7.45	18.3	ug/l	2826190	ISTD01	9.28	7740530	50.0

V081817.D 9510818.M Fri Aug 19 11:04:02 2005 RPT1

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW9D-2
Date Sampled.....: 08/10/2005
Time Sampled.....: 14:02
Sample Matrix.....: Water

Laboratory Sample ID: 251041-7
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/19/05	dmd
	Bromomethane	10	U		10	ug/L	08/19/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/19/05	dmd
	Chloroethane	10	U		10	ug/L	08/19/05	dmd
	Methylene chloride	10	U		10	ug/L	08/19/05	dmd
	Acetone	10	U		10	ug/L	08/19/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/19/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/19/05	dmd
	1,1-Dichloroethane	1.1	J		10	ug/L	08/19/05	dmd
	Chloroform	10	U		10	ug/L	08/19/05	dmd
	1,2-Dichloroethane	140	U		10	ug/L	08/19/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/19/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/19/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/19/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/19/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/19/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/19/05	dmd
	Trichloroethene	5.3	J		10	ug/L	08/19/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/19/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/19/05	dmd
	Benzene	10	U		10	ug/L	08/19/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/19/05	dmd
	Bromoform	10	U		10	ug/L	08/19/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/19/05	dmd
	2-Hexanone	10	U		10	ug/L	08/19/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/19/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/19/05	dmd
	Toluene	10	U		10	ug/L	08/19/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/19/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/19/05	dmd
	Styrene	10	U		10	ug/L	08/19/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/19/05	dmd
	cis-1,2-Dichloroethene	16	U		10	ug/L	08/19/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/19/05	dmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTD/PHS PH-0564

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW9D-2

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-007
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081907.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. _____ Date Analyzed: 8/19/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	7	JN

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STL

NYSDOH 10142

NJDEP 73015

FORM 1 VOA TIC

CTDOHS PH-0554

EPA NY049

PA 66-376

M-NY049

3/00

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
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Fax (845) 562-0841

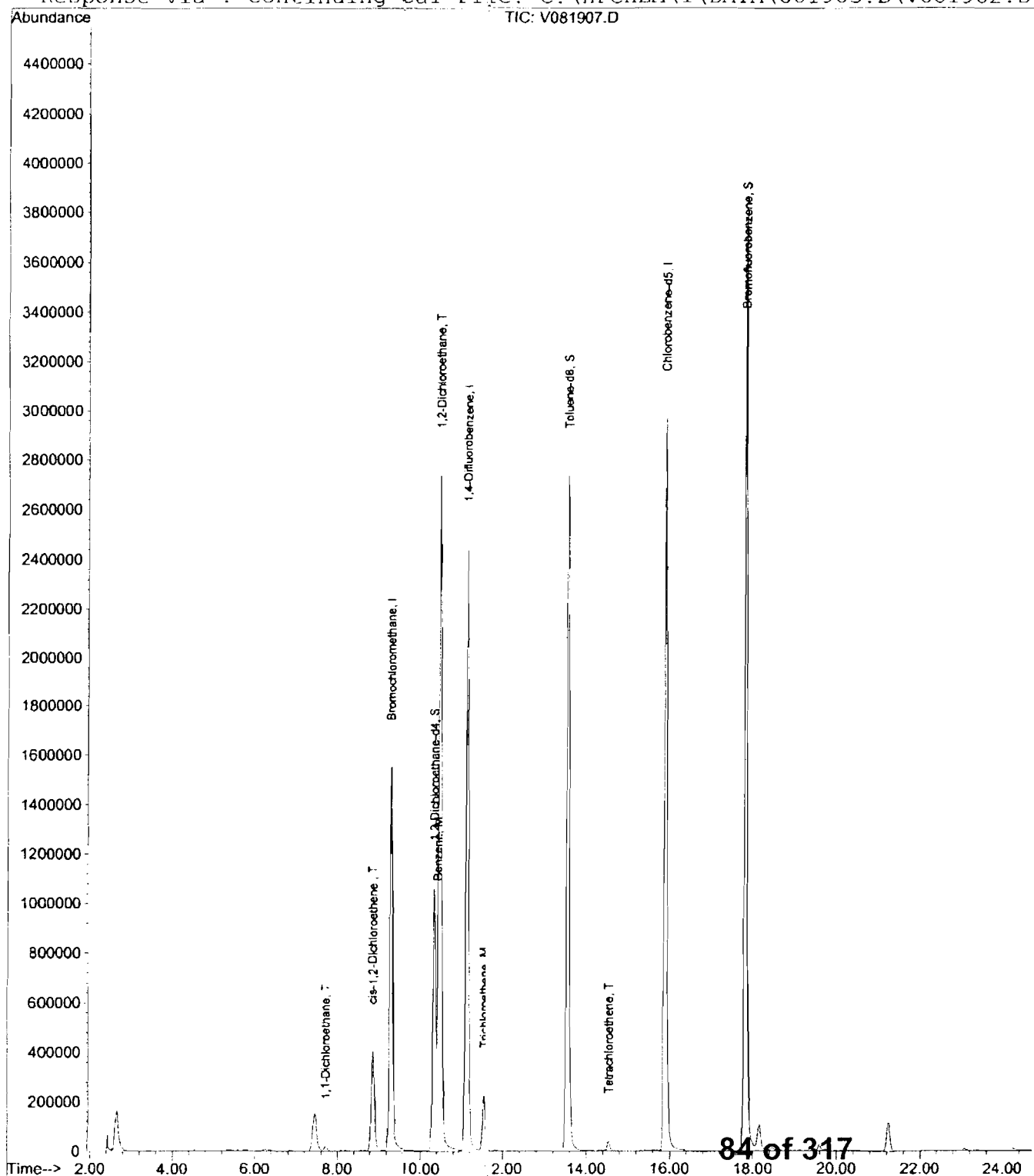
Quantitation Report

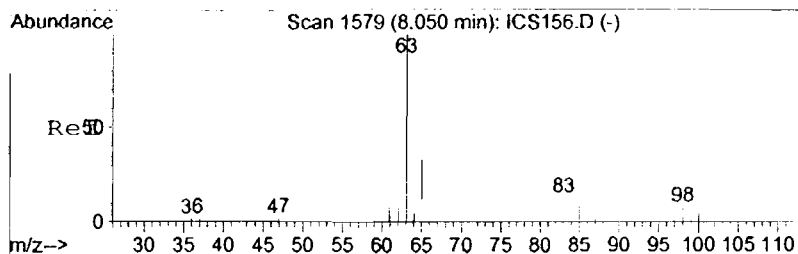
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 Acq On : 19 Aug 2005 3:54 pm
 Sample : 251041-007,,
 Misc : MW9D-2\019,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:33 19105

Vial: 13
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240 and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\V081902.D





#14

1,1-Dichloroethane

Concen: 1.06 ug/l

RT: 7.71 min Scan# 1544

Delta R.T. 0.01 min

Lab File: V081907.D

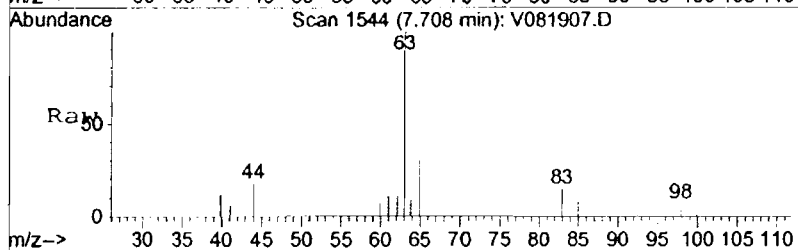
Acq: 19 Aug 2005 3:54 pm

Tgt Ion: 63 Resp: 52422

Ion Ratio Lower Upper

63 100

65 31.8 13.6 53.6



Abundance Ion 63.00 (62.70 to 63.70): V081907.D

Ion 65.00 (64.70 to 65.70): V081907.D

7.71

8000

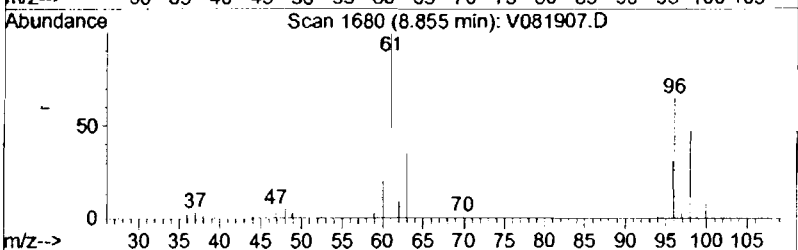
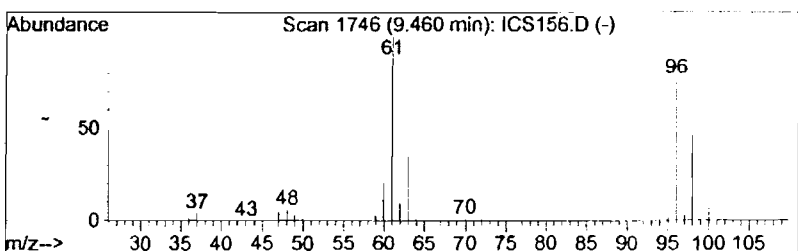
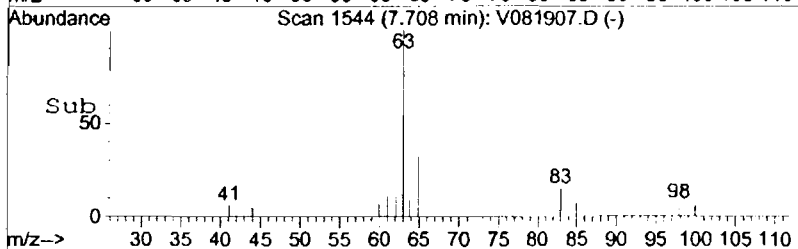
6000

4000

2000

0

Time--> 7.50 7.60 7.70 7.80 7.90



Abundance Ion 96.00 (95.70 to 96.70): V081907.D

Ion 61.00 (60.70 to 61.70): V081907.D

Ion 98.00 (97.70 to 98.70): V081907.D

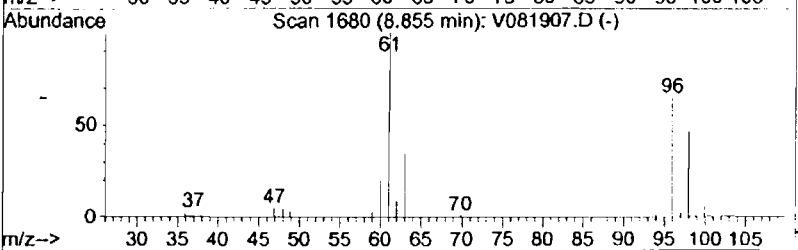
150000

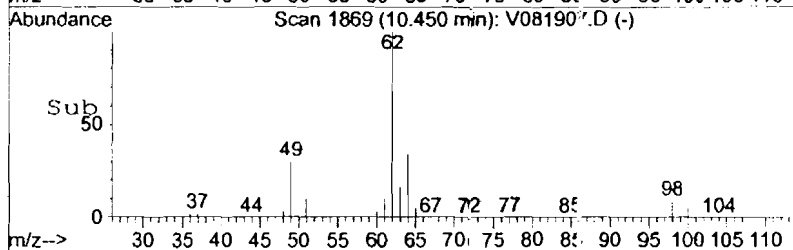
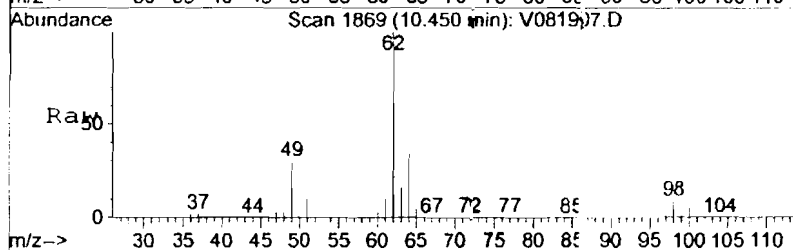
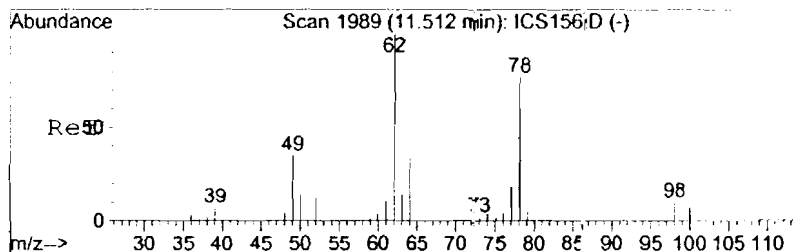
100000

50000

0

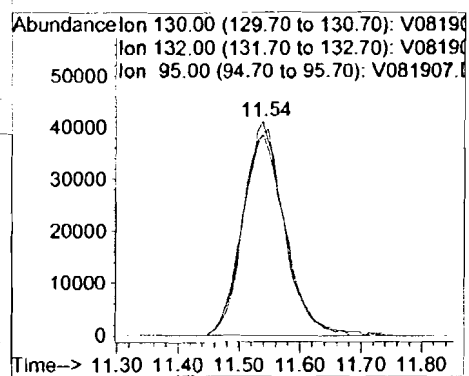
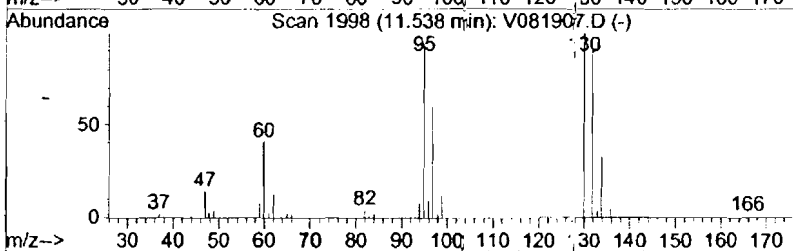
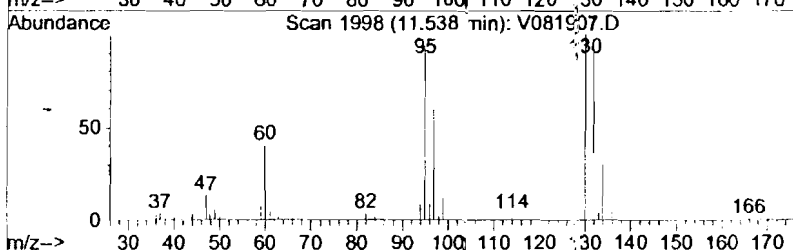
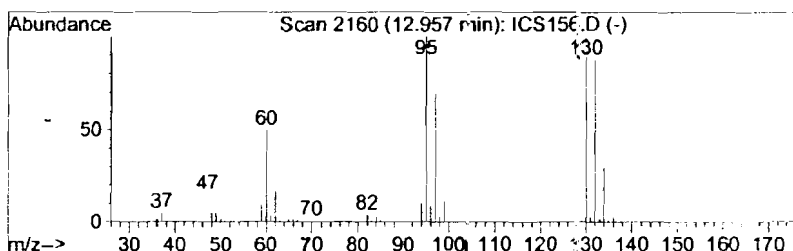
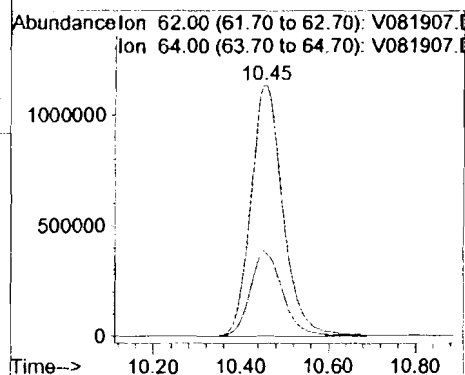
Time--> 8.60 8.70 8.80 8.90 9.00 9.10





#20
1,2-Dichloroethane
Concen: 140.91 ug/l
RT: 10.45 min Scan# 1869
Delta R.T. 0.01 min
Lab File: V081907.D
Acq: 19 Aug 2005 3:54 pm

Tgt Ion: 62 Resp: 5764939
Ion Ratio Lower Upper
62 100
64 34.1 13.9 53.9



Data File : Z:\MSD\081905.B\081907.D
 Acq On : 19 Aug 2005 3:54 pm
 Sample : 251041-007,,
 Misc : MW9D-21019,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:33 19105

Vial: 13
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\081902.D
 DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.29	49	1872532	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.11	114	4665037	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.87	117	3921755	50.00	ug/l	0.02

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	1940958	46.17	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	92.34%
42) Toluene-d8	13.54	98	4389461	47.62	ug/l	0.02
Spiked Amount	50.000	Range	88 - 110	Recovery	=	95.24%
46) Bromofluorobenzene	17.80	95	3472234	50.37	ug/l	0.02
Spiked Amount	50.000	Range	86 - 115	Recovery	=	100.74%

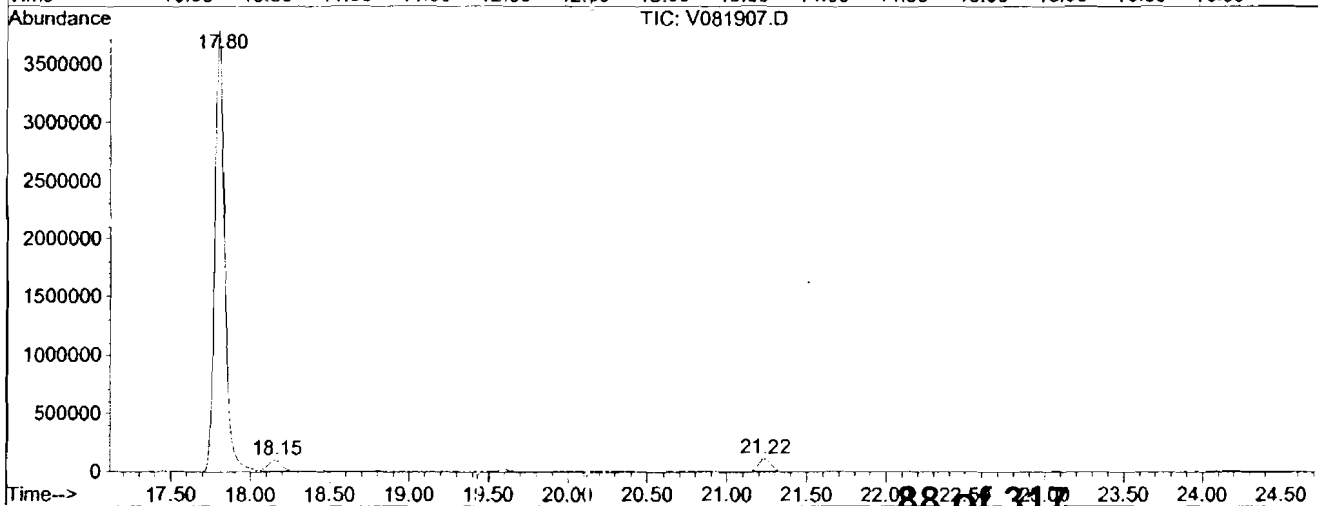
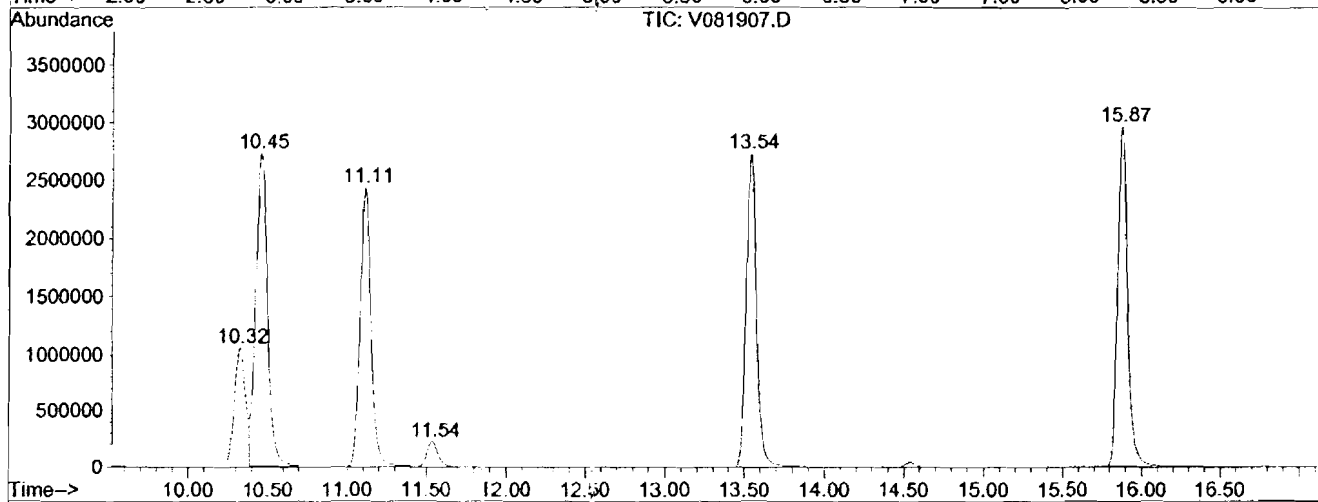
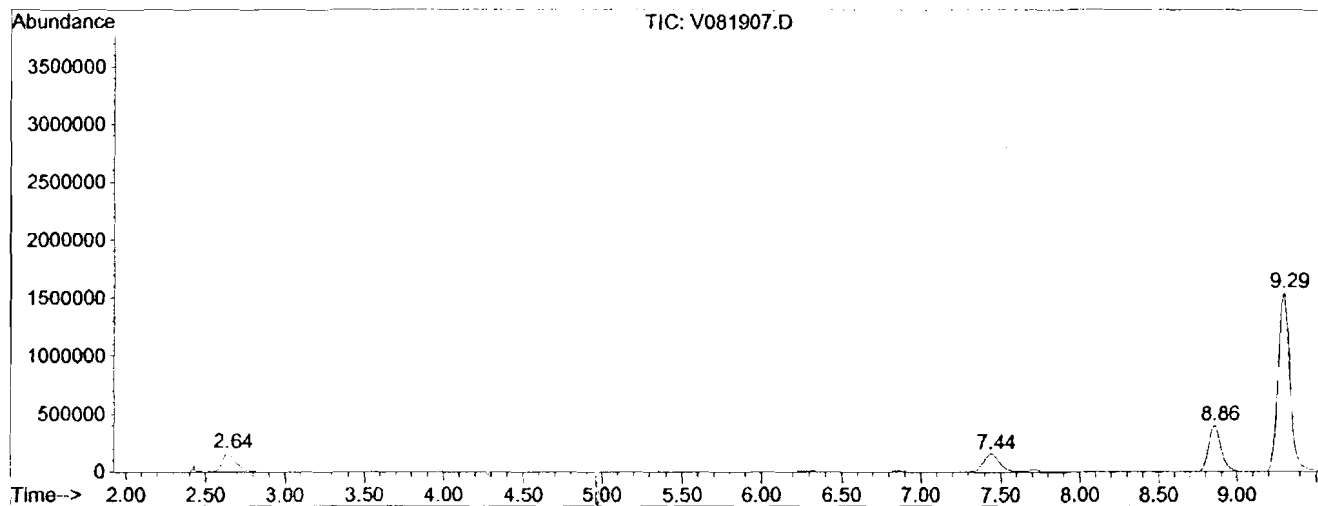
Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
14) 1,1-Dichloroethane	7.71	63	52422	1.06	ug/l	97
17) cis-1,2-Dichloroethene	8.86	96	461692	16.35	ug/l	# 76
20) 1,2-Dichloroethane	10.45	62	5764939	140.91	ug/l	100
29) Trichloroethene	11.54	130	192025	5.33	ug/l	96
30) Benzene	10.40	78	43992	0.67	ug/l	100
39) Tetrachloroethene	14.54	166	30190	0.59	ug/l	89

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LSC Report - Integrated Chromatogram

File : Z:\MSD\081905.B\081907.D
 Operator : DMD
 Acquired : 19 Aug 2005 3:54 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-007,,
 Misc Info : MW9D-21019,,VBLK\MACTEC 95.1
 Vial Number: 13
 Quant File : 9510818.RES (RTE Integrator)



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Library Search Compound Report

Data File : Z:\MSD\081905.B\V081907.D
Acq On : 19 Aug 2005 3:54 pm
Sample : 251041-007,,
Misc : MW9D-2\019,,VBLK\MACTEC 95.1
MS Integration Params: LSCINT.P

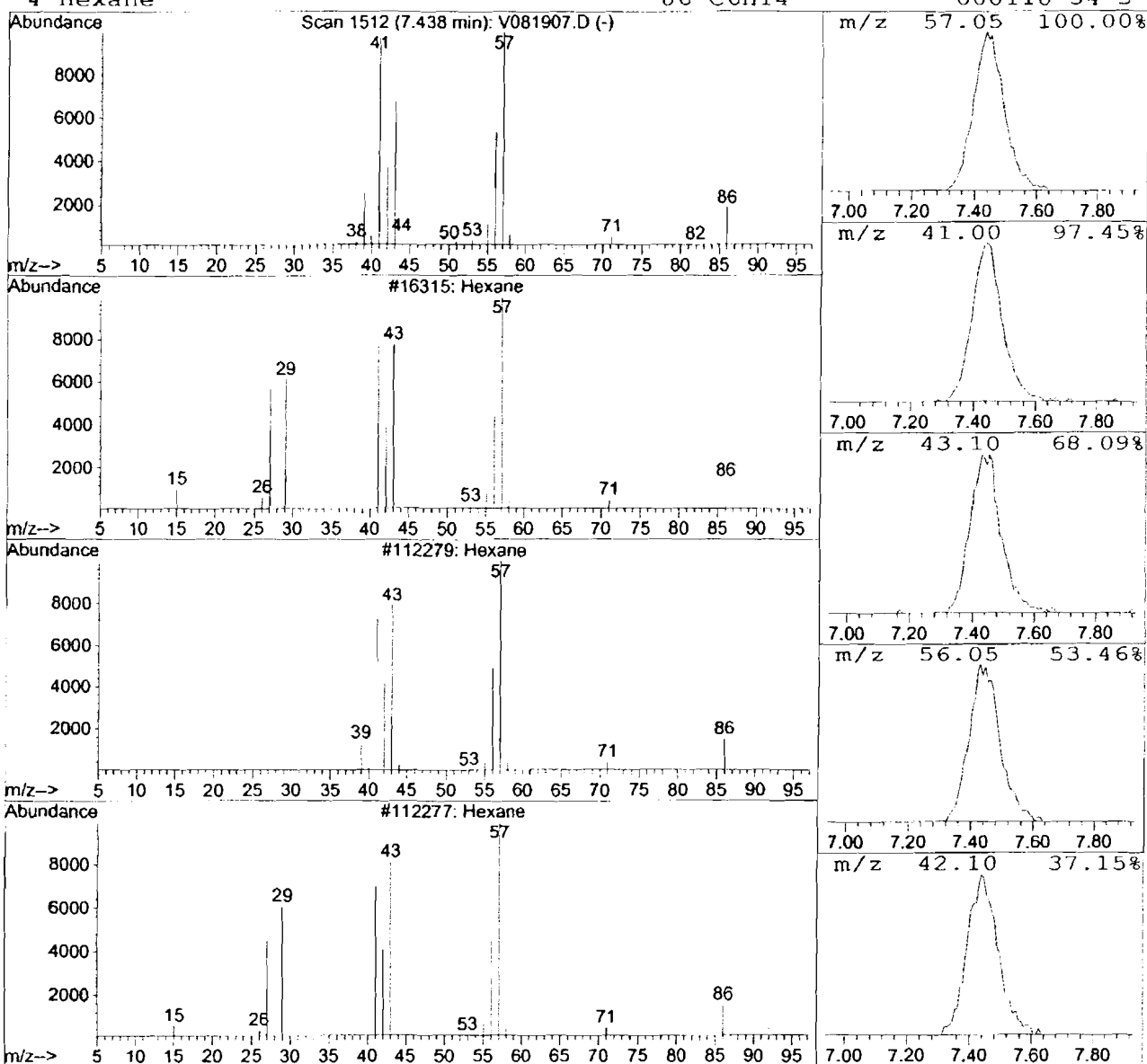
Vial: 13
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	6.55 ug/l	1065950	Bromochloromethane	9.29

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	83
2	Hexane			86	C6H14	000110-54-3	80
3	Hexane			86	C6H14	000110-54-3	80
4	Hexane			86	C6H14	000110-54-3	45



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 19 Aug 2005 3:54 pm
 Data File: Z:\MSD\081905.B\V081907.D
 Name: 251041-007,,
 Misc: MW9D-21019,,VBLK|MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.l

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.64	6.0	ug/l	976954	ISTD01	9.29	8132520	50.0
Hexane	7.44	6.6	ug/l	1065950	ISTD01	9.29	8132520	50.0

V081907.D 9510818.M Wed Aug 31 18:36:46 2005 RPT1

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW9D-3
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 14:15
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-8
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmcd
	Bromomethane	10	U		10	ug/L	08/18/05	dmcd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmcd
	Chloroethane	10	U		10	ug/L	08/18/05	dmcd
	Methylene chloride	10	U		10	ug/L	08/18/05	dmcd
	Acetone	10	U		10	ug/L	08/18/05	dmcd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Chloroform	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloroethane	150			10	ug/L	08/18/05	dmcd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmcd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmcd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmcd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Trichloroethene	4.9	J		10	ug/L	08/18/05	dmcd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Benzene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Bromoform	10	U		10	ug/L	08/18/05	dmcd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmcd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmcd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmcd
	Toluene	10	U		10	ug/L	08/18/05	dmcd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmcd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmcd
	Styrene	10	U		10	ug/L	08/18/05	dmcd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmcd
	cis-1,2-Dichloroethene	15			10	ug/L	08/18/05	dmcd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd

* In Description = Dry Wgt.

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EPA NY049

PA 68-378

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 Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW9D-3

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041Matrix: (soil/water) WATERLab Sample ID: 251041-008Sample wt/vol: 5.0 (g/ml) MLLab File ID: V081819.DLevel: (low/med) LOWDate Received: 8/12/2005

% Moisture: not dec. _____

Date Analyzed: 8/18/2005GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	9	JN

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SEVERN
TRENT **STL**

NYSDOH 10142

NJDEP 73015

FORM VOA-TIC

CTD/DHS PH-0564

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

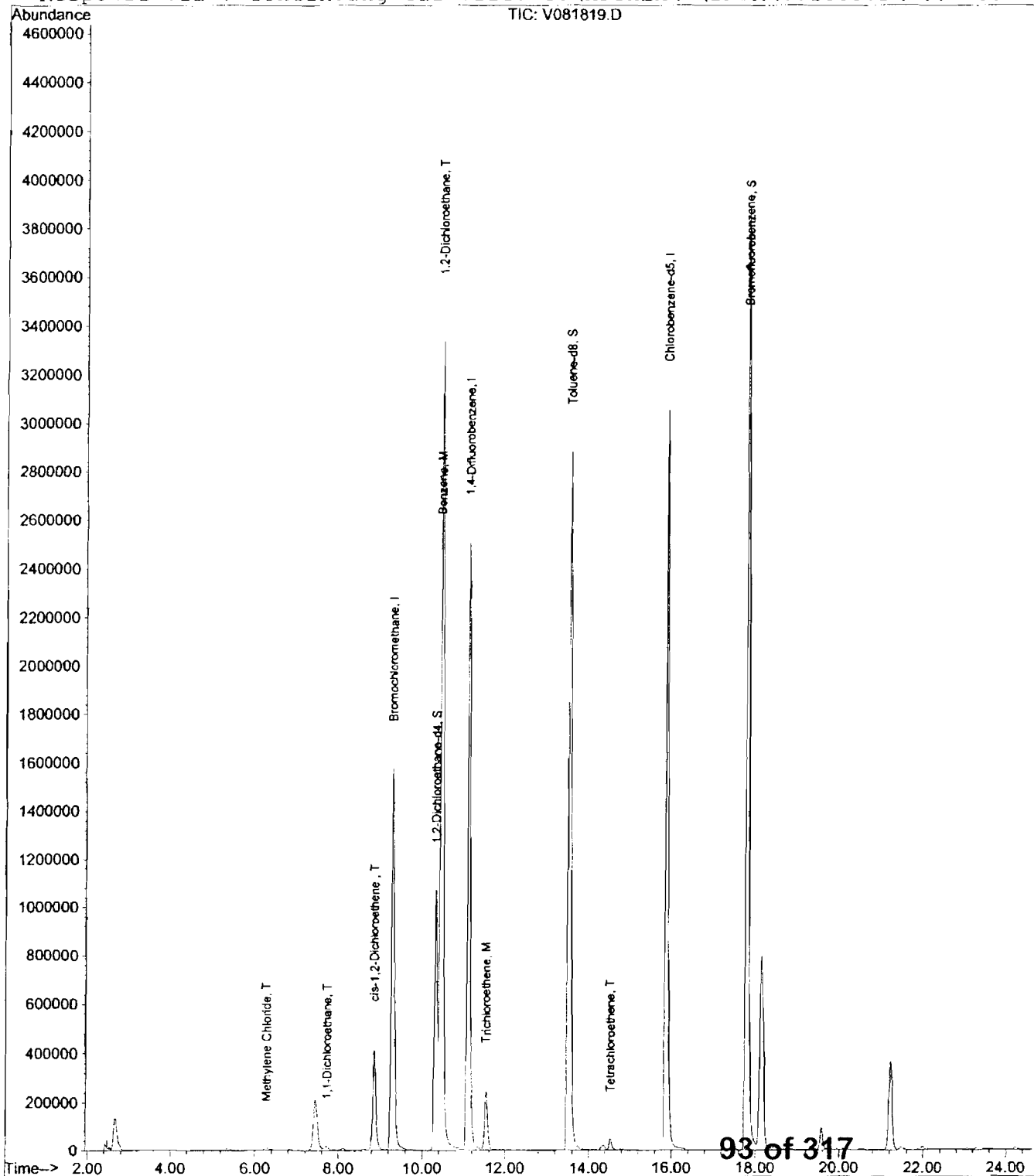
Quantitation Report

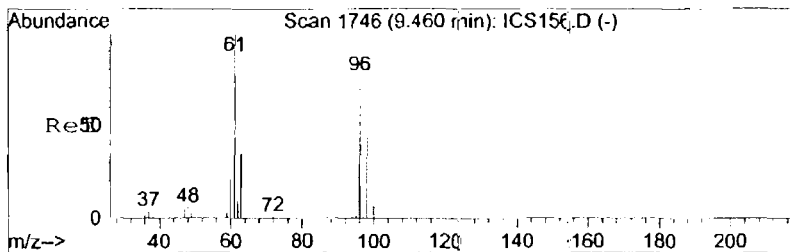
Data File : Z:\MSD\081805.B\V081819.D
 Acq On : 18 Aug 2005 9:52 pm
 Sample : 251041-008,,
 Misc : MW9D-3\018,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:13 19105

Vial: 16
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RI

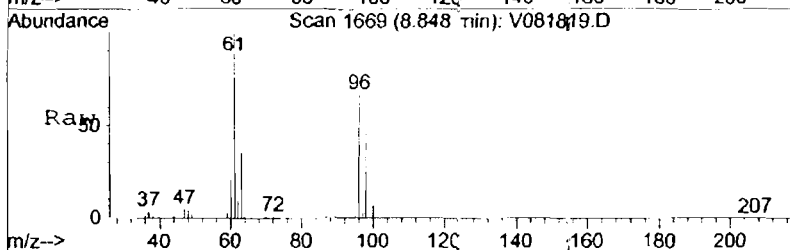
Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D



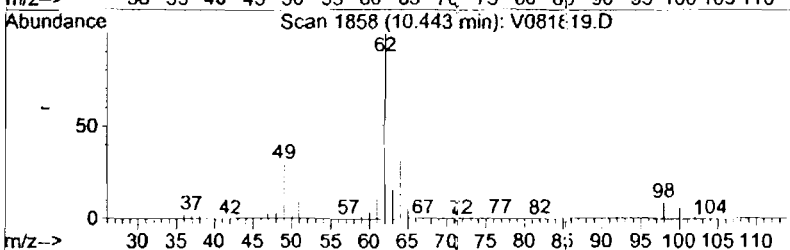
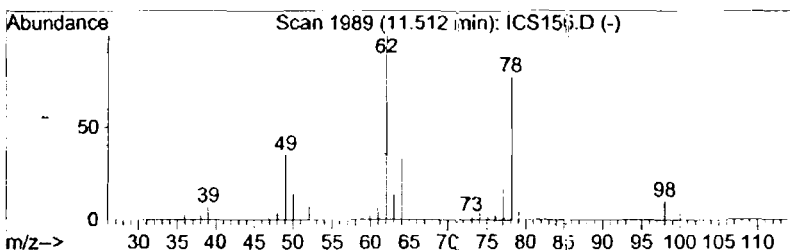
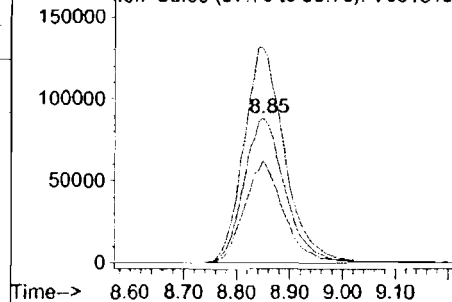
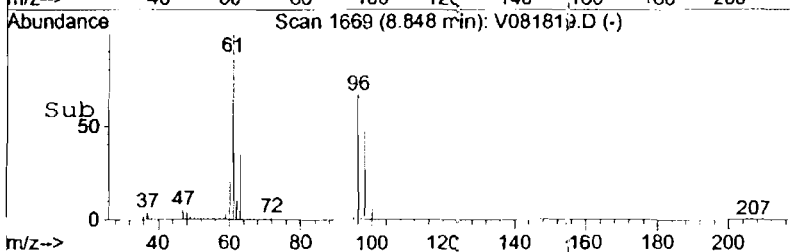


#17
 cis-1,2-Dichloroethene
 Concen: 14.58 ug/l
 RT: 8.85 min Scan# 1669
 Delta R.T. 0.00 min
 Lab File: V081819.D
 Acq: 18 Aug 2005 9:52 pm

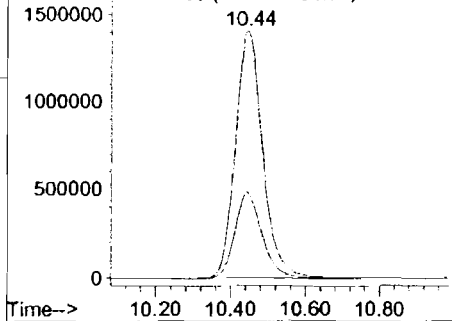
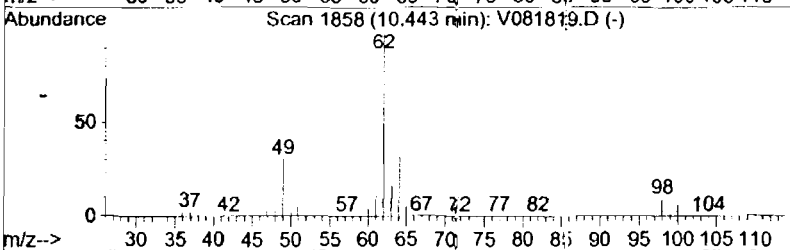
Tgt Ion: 96 Resp: 475831
 Ion Ratio Lower Upper
 96 100
 61 148.5 95.1 135.1#
 98 70.5 47.3 87.3

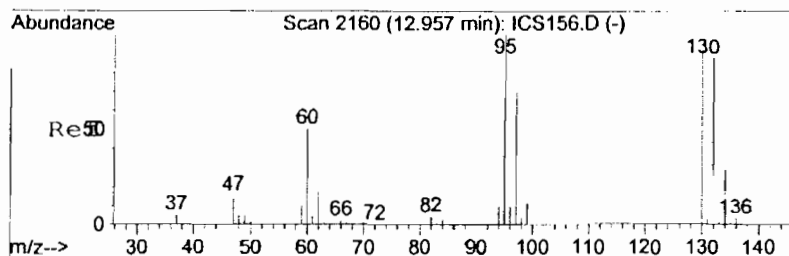


Abundance Ion 96.00 (95.70 to 96.70): V081819.D
 Ion 61.00 (60.70 to 61.70): V081819.D
 Ion 98.00 (97.70 to 98.70): V081819.D



Abundance Ion 62.00 (61.70 to 62.70): V081819.D
 Ion 64.00 (63.70 to 64.70): V081819.D





#29

Trichloroethene

Concen: 4.89 ug/l

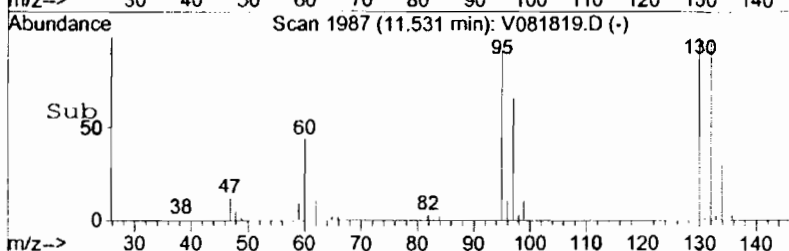
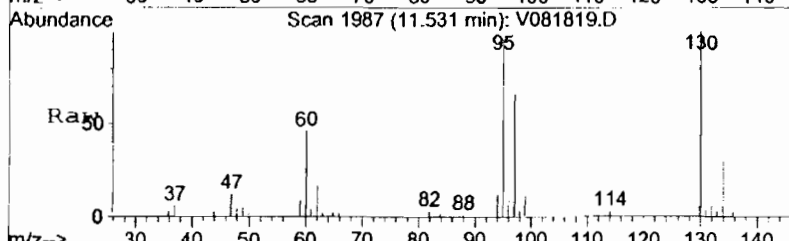
RT: 11.53 min Scan# 1987

Delta R.T. 0.01 min

Lab File: V081819.D

Acq: 18 Aug 2005 9:52 pm

Tgt Ion	Ratio	Lower	Upper
130	100		
132	97.3	79.9	119.9
95	95.8	71.7	111.7

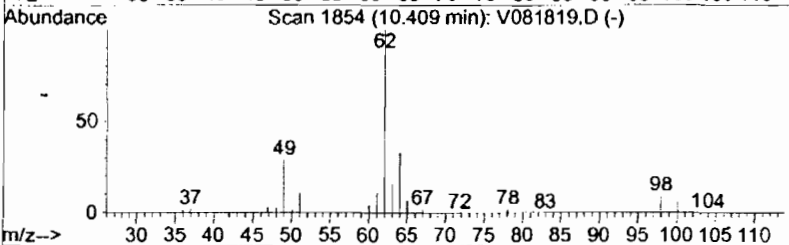
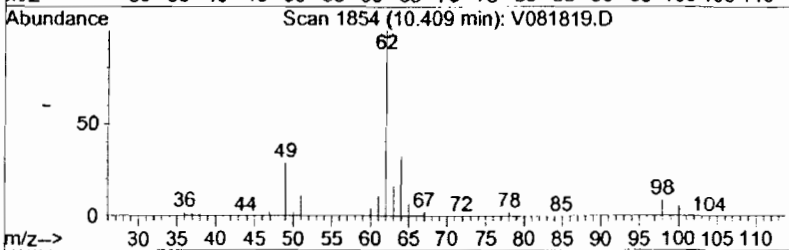
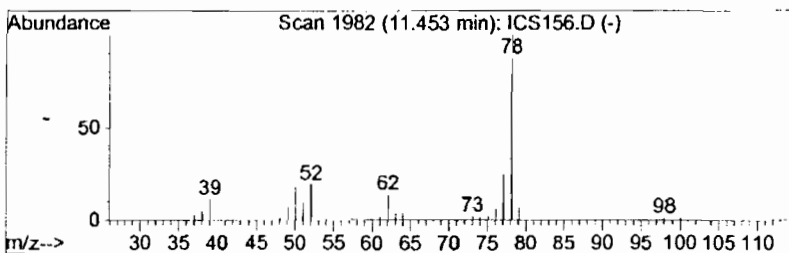
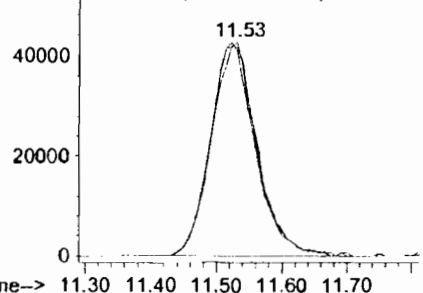


Abundance

Ion 130.00 (129.70 to 130.70): V081819.D

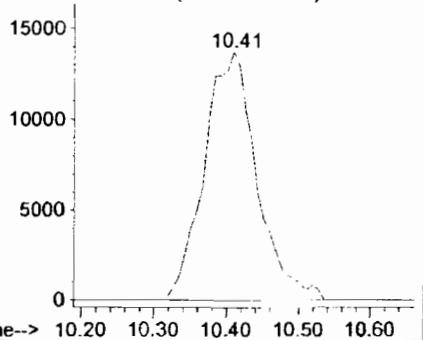
Ion 132.00 (131.70 to 132.70): V081819.D

Ion 95.00 (94.70 to 95.70): V081819.D



Abundance

Ion 78.00 (77.70 to 78.70): V081819.D



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081819.D
 Acq On : 18 Aug 2005 9:52 pm
 Sample : 251041-008,,
 Misc : MW9D-31018,,VBLK\MACTEC 95.1
 MS Integration Params: RTE\INT.P
 Quant Time: Aug 19 10:13 19105

Vial: 16
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\081808.D
 DataAcq Meth : 9510818

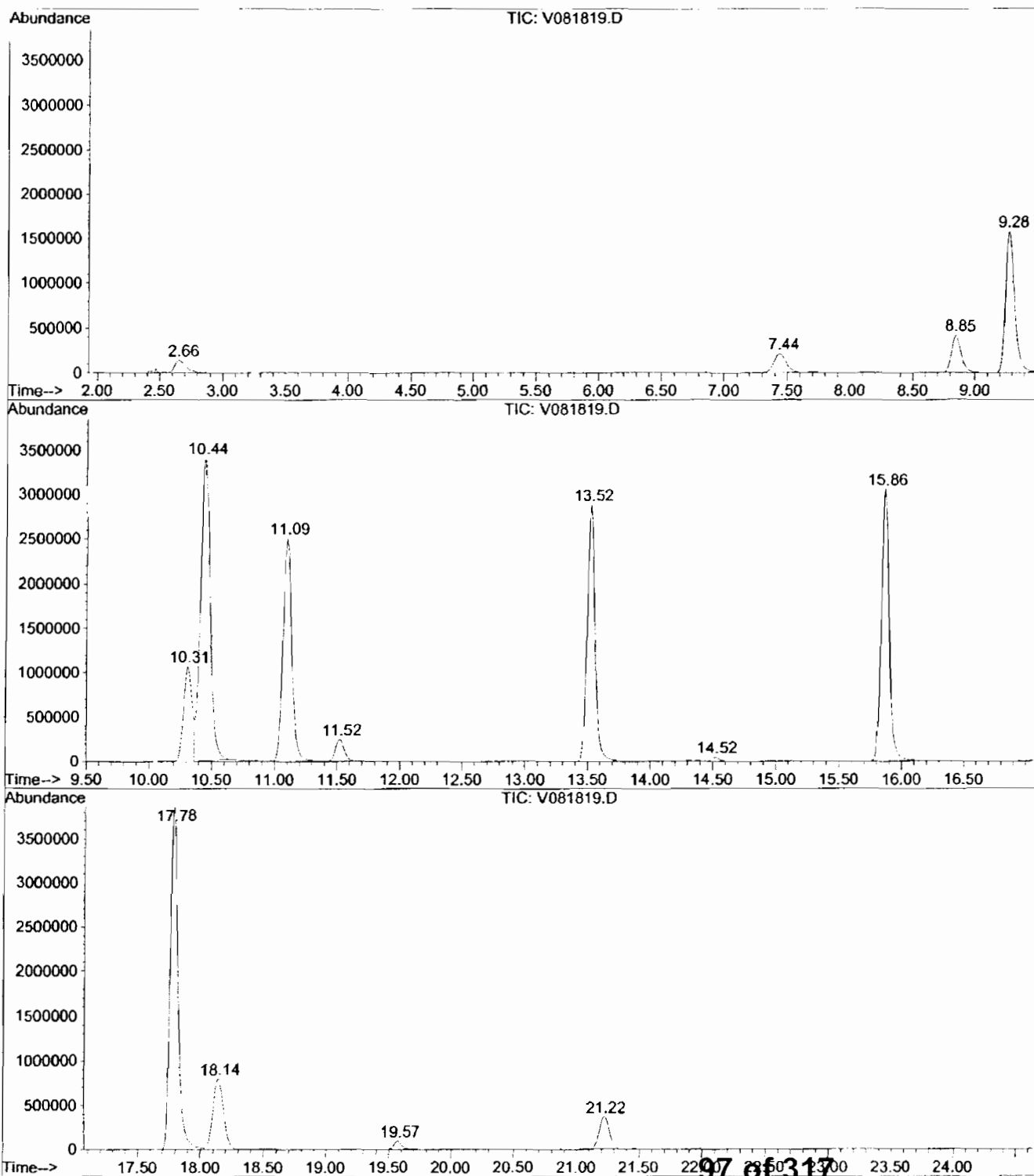
DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1901543	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4819848	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	4067914	50.00	ug/l	0.00
System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	10.31	65	1929565	46.44	ug/l	0.00
Spiked Amount 50.000	Range 76	- 114	Recovery	=	92.88%	
42) Toluene-d8	13.52	98	4583179	49.75	ug/l	0.00
Spiked Amount 50.000	Range 88	- 110	Recovery	=	99.50%	
46) Bromofluorobenzene	17.77	95	3580994	49.75	ug/l	0.00
Spiked Amount 50.000	Range 86	- 115	Recovery	=	99.50%	
Target Compounds						
9) Methylene Chloride	6.28	84	13465m	0.47	ug/l	
14) 1,1-Dichloroethane	7.72	63	46889	0.80	ug/l	95
17) cis-1,2-Dichloroethene	8.85	96	475831	14.58	ug/l	# 79
20) 1,2-Dichloroethane	10.44	62	7127418	151.15	ug/l	99
29) Trichloroethene	11.53	130	208241	4.89	ug/l	97
30) Benzene	10.41	78	69144	0.88	ug/l	100
39) Tetrachloroethene	14.53	166	36751	0.62	ug/l	94

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LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\V081819.D
 Operator : DMD
 Acquired : 18 Aug 2005 9:52 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-008,,
 Misc Info : MW9D-3|018,,VBLK|MACTEC 95.1
 Vial Number: 16
 Quant File :9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081805.B\0031819.D
Acq On : 18 Aug 2005 9:52 pm
Sample : 251041-008,,
Misc : MW9D-31018,,VBLK|MACTEC 95.1
MS Integration Params: L3CINT.2

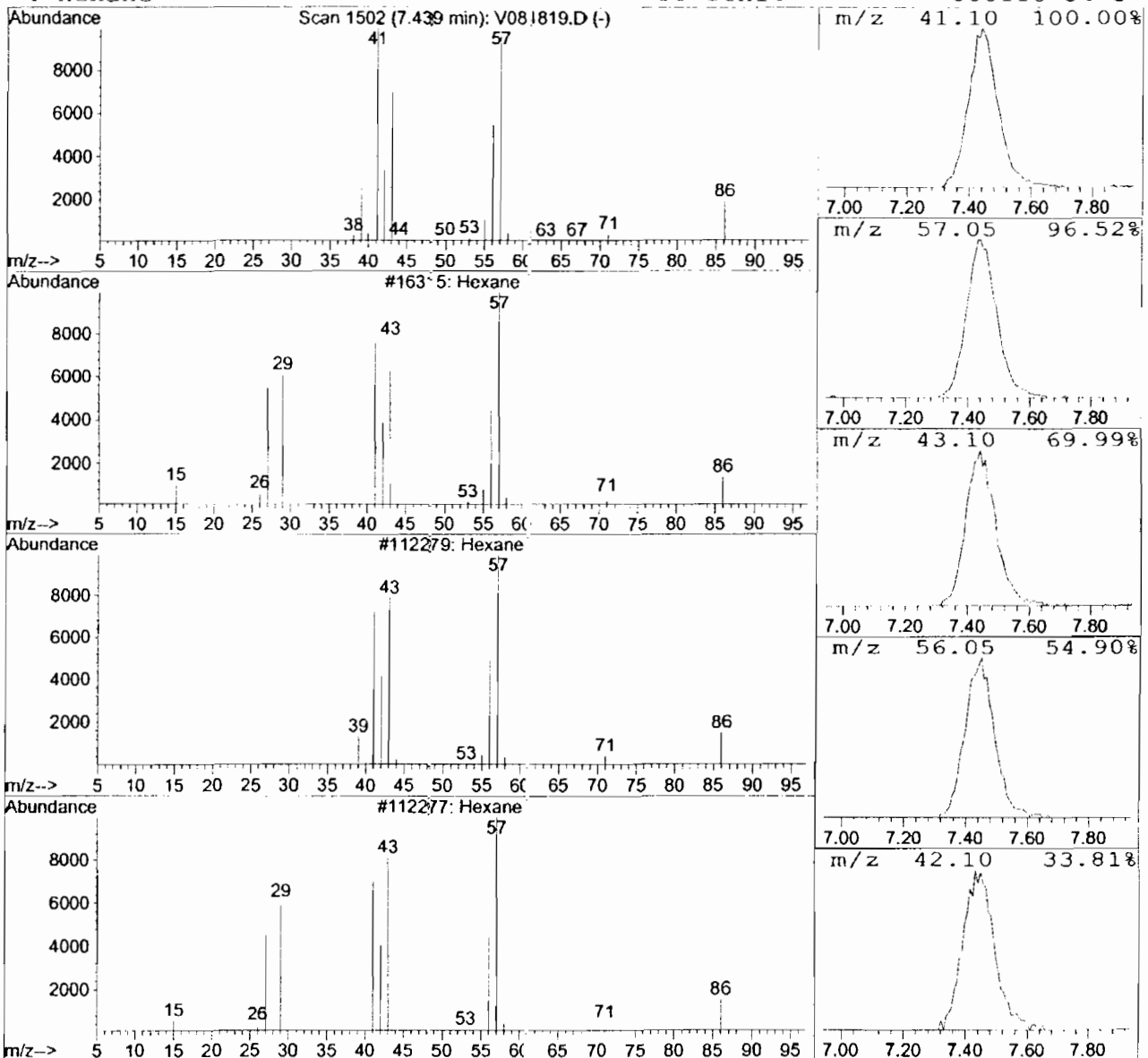
Vial: 16
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nis-98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	9.00 ug/l	1455660	Bromochloromethane	9.28

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	42
2	Hexane			86	C6H14	000110-54-3	45
3	Hexane			86	C6H14	000110-54-3	50
4	Hexane			86	C6H14	000110-54-3	40



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 9:52 pm
 Data File: Z:\MSD\081805.B\V081819.D
 Name: 251041-008,,
 Misc: MW9D-31018,,VBLK\MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.66	5.0	ug/l	815057	ISTD01	9.28	8087290	50.0
Hexane	7.44	9.0	ug/l	1455660	ISTD01	9.28	8087290	50.0

V081819.D 9510818.M Fri Aug 19 11:05:07 2005 RPT1

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACIEC Engineering and Consulting, Inc., PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW10D-1
Date Sampled.....: 08/10/2005
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 251041-9
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmcd
	Bromomethane	10	U		10	ug/L	08/18/05	dmcd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmcd
	Chloroethane	10	U		10	ug/L	08/18/05	dmcd
	Methylene chloride	10	U		10	ug/L	08/18/05	dmcd
	Acetone	1.9	J	B	10	ug/L	08/18/05	dmcd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Chloroform	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloroethane	40	U		10	ug/L	08/18/05	dmcd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmcd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmcd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmcd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmcd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Benzene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Bromoform	10	U		10	ug/L	08/18/05	dmcd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmcd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmcd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmcd
	Toluene	10	U		10	ug/L	08/18/05	dmcd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmcd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmcd
	Styrene	10	U		10	ug/L	08/18/05	dmcd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmcd
	cis-1,2-Dichloroethene	1.4	J		10	ug/L	08/18/05	dmcd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTD/HS PH-0554

EPA NY049

PA 88-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10D-1

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-009
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081820.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.45	9	JN

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TRENT

STL

FORM I VOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

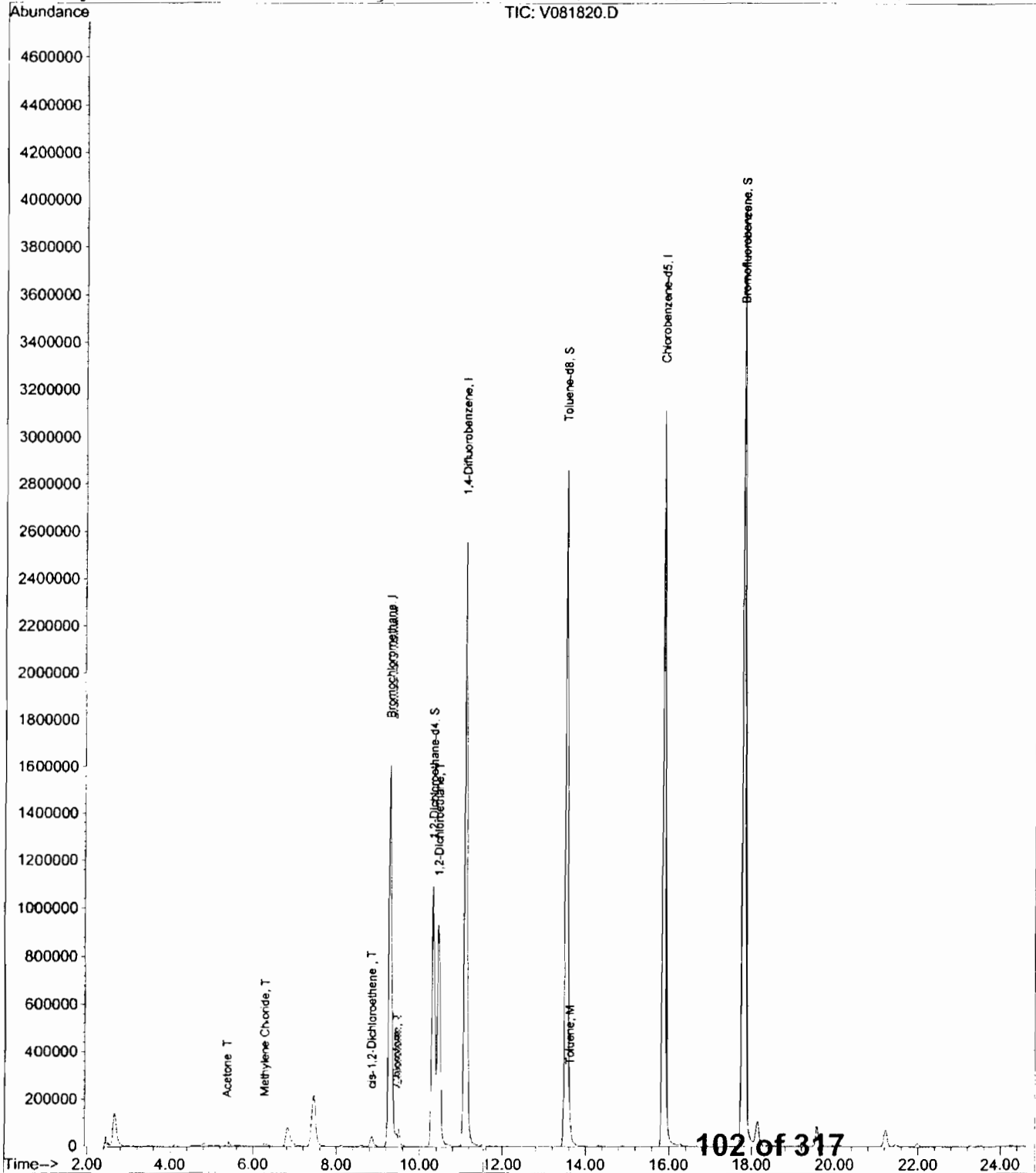
Quantitation Report

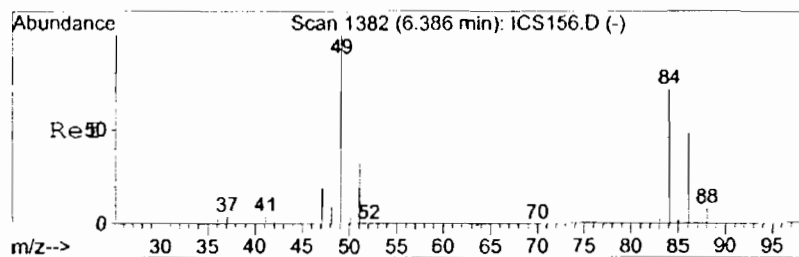
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 Acq On : 18 Aug 2005 10:22 pm
 Sample : 251041-009,,
 Misc : MW10D-1\018,,WBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:14 19105

Vial: 1
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RI

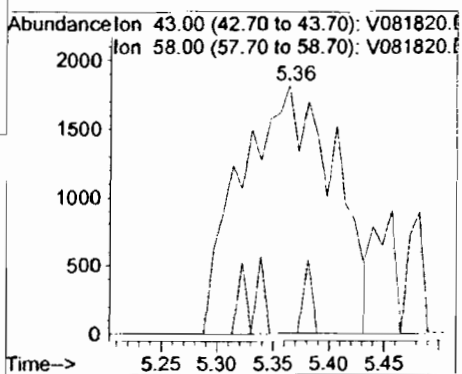
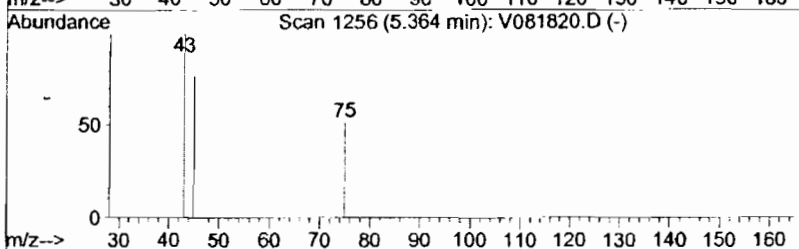
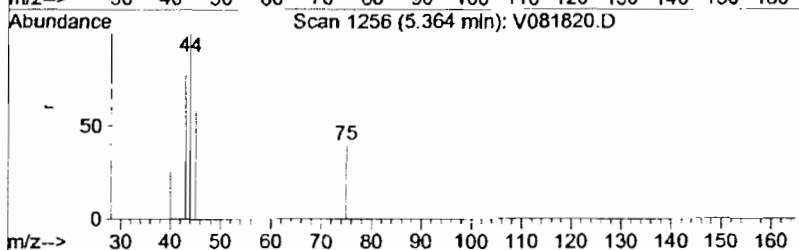
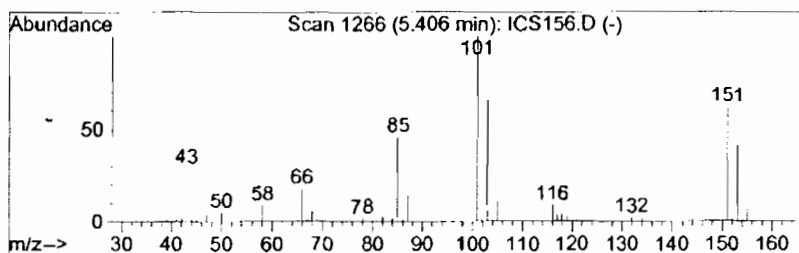
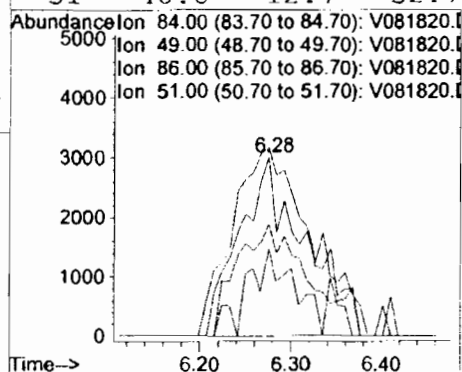
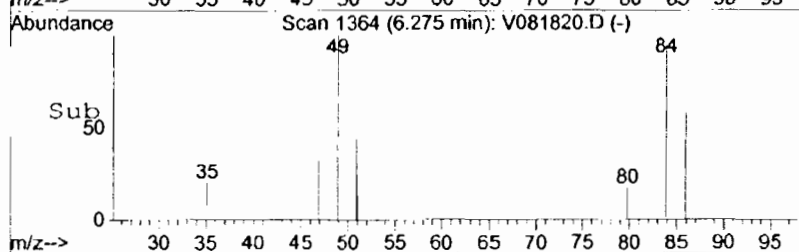
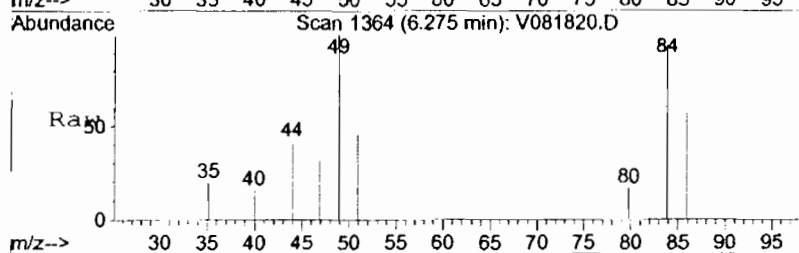
Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D

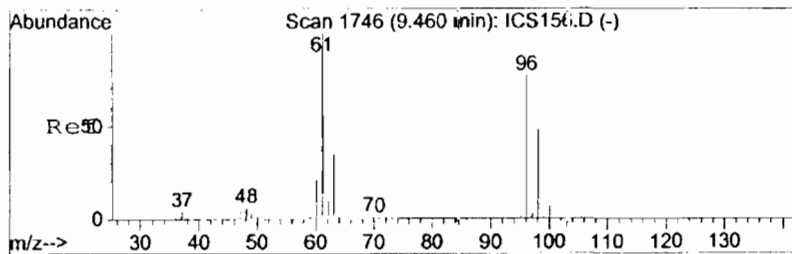




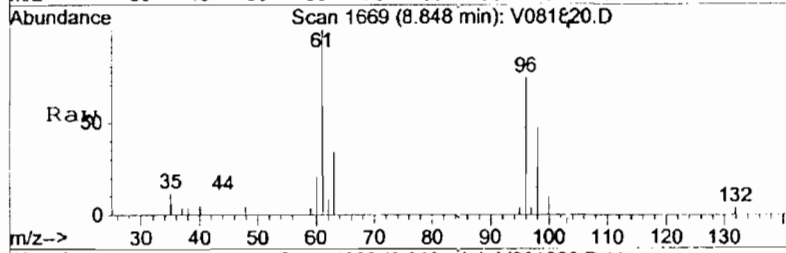
#9
Methylene Chloride
Concen: 0.51 ug/l
RT: 6.28 min Scan# 1364
Delta R.T. 0.01 min
Lab File: V081820.D
Acq: 18 Aug 2005 10:22 pm

Tgt Ion: 84 Resp: 14970
Ion Ratio Lower Upper
84 100
49 105.5 80.3 120.3
86 62.4 45.3 85.3
51 48.8 12.7 52.7

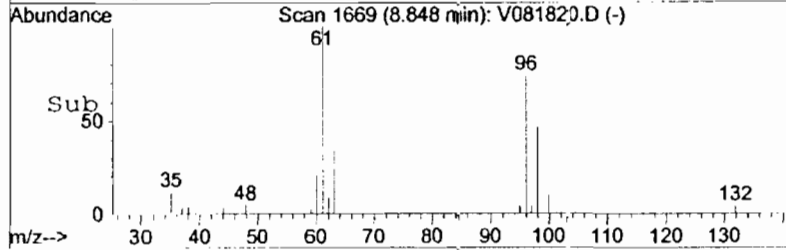




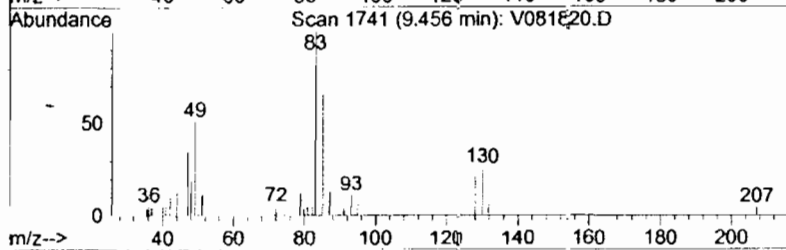
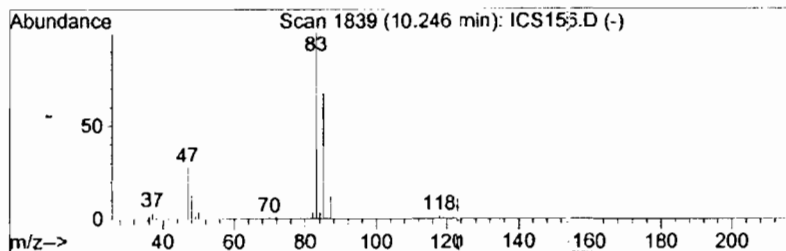
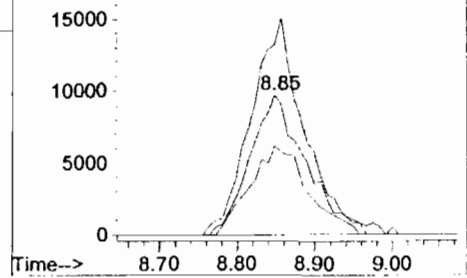
#17
 cis-1,2-Dichloroethene
 Concen: 1.45 ug/l
 RT: 8.85 min Scan# 1669
 Delta R.T. 0.00 min
 Lab File: V081820.D
 Acq: 18 Aug 2005 10:22 pm



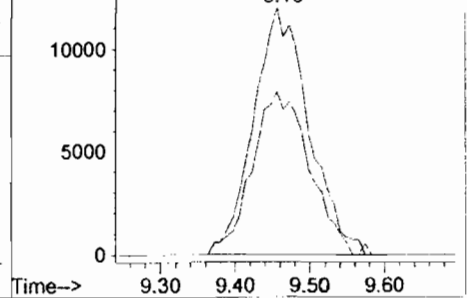
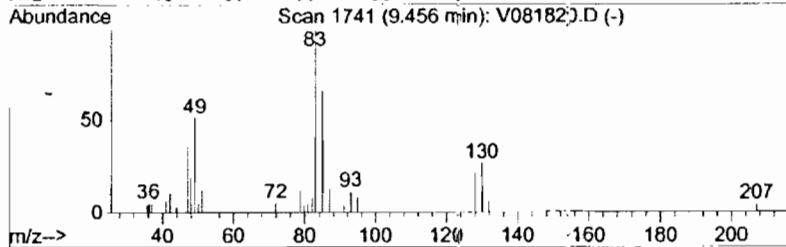
Tgt Ion: 96 Resp: 48039
 Ion Ratio Lower Upper
 96 100
 61 136.0 95.1 135.1#
 98 63.7 47.3 87.3

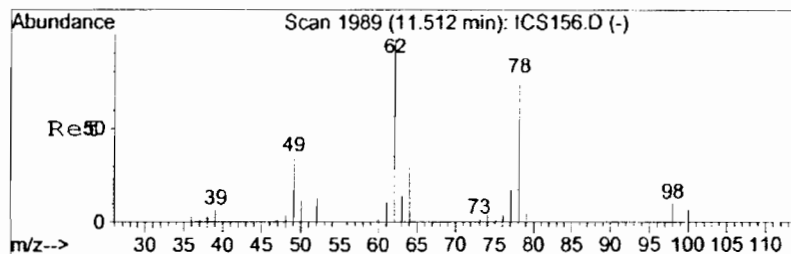


Abundance Ion 96.00 (95.70 to 96.70): V081820.D
 20000 Ion 61.00 (60.70 to 61.70): V081820.D
 Ion 98.00 (97.70 to 98.70): V081820.D

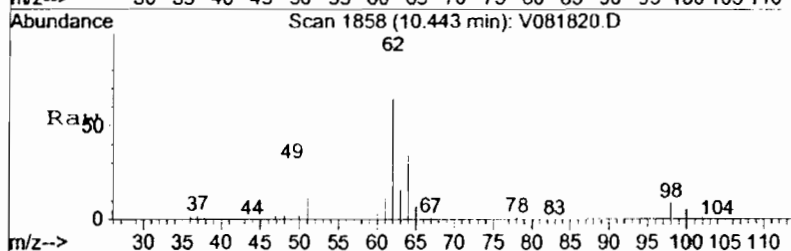


Abundance Ion 83.00 (82.70 to 83.70): V081820.D
 Ion 85.00 (84.70 to 85.70): V081820.D

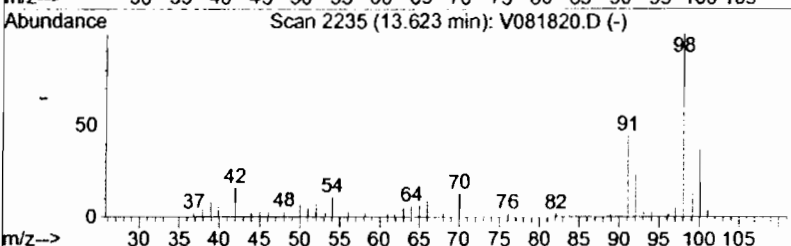
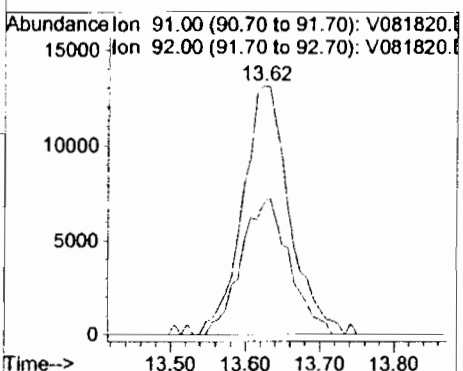
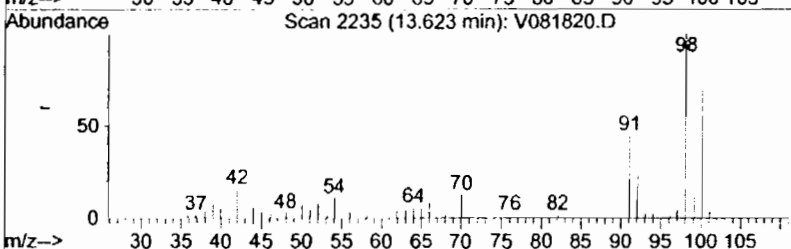
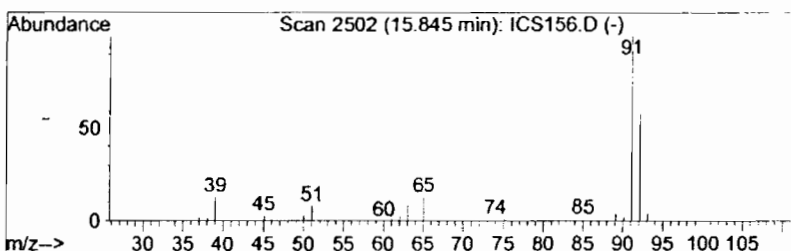
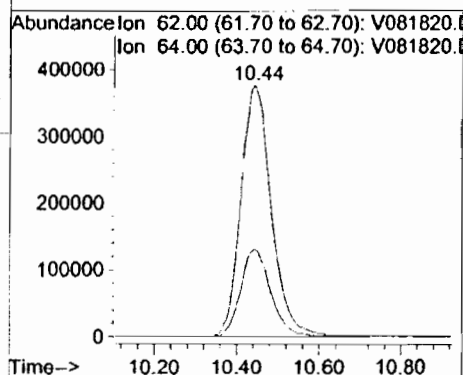
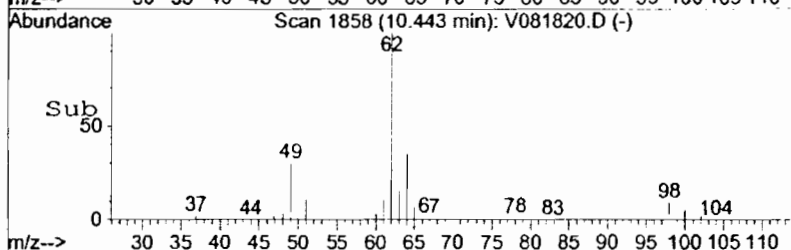




#20
 1,2-Dichloroethane
 Concen: 40.48 ug/l
 RT: 10.44 min Scan# 1858
 Delta R.T. -0.01 min
 Lab File: V081820.D
 Acq: 18 Aug 2005 10:22 pm



Tgt Ion: 62 Resp: 1939498
 Ion Ratio Lower Upper
 62 100
 64 34.6 13.9 53.9



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081820.D
 Acq On : 18 Aug 2005 10:22 pm
 Sample : 251041-009,,
 Misc : MW10D-11018,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:14 19105

Vial: 1
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RI

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\081808.D
 DataAcq Meth : 9510818

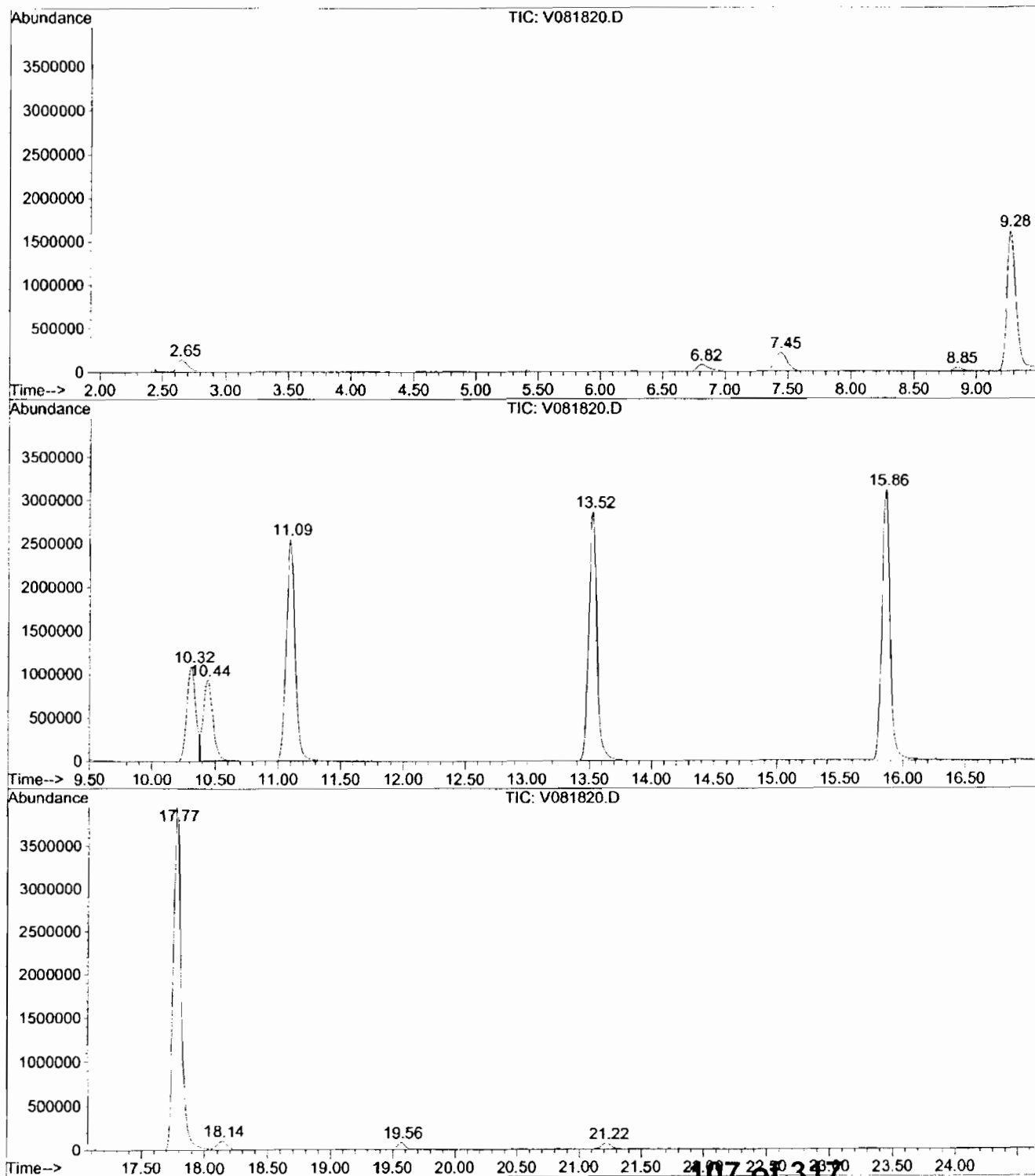
DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1932207	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4862645	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	4107352	50.00	ug/l	0.00
System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	10.31	65	2116045	50.12	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery	=	100.24%	
42) Toluene-d8	13.52	98	4610763	49.57	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery	=	99.14%	
46) Bromofluorobenzene	17.77	95	3606554	49.62	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery	=	99.24%	
Target Compounds						
						Qvalue
9) Methylene Chloride	6.28	84	14970	0.51	ug/l	91
10) Acetone	5.36	43	10555	1.94	ug/l	50
17) cis-1,2-Dichloroethene	8.85	96	48039	1.45	ug/l	86
18) Chloroform	9.46	83	61654	0.87	ug/l	98
20) 1,2-Dichloroethane	10.44	62	1939498	40.48	ug/l	99
43) Toluene	13.62	91	57699	0.58	ug/l	94

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LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\V081820.D
 Operator : DMD
 Acquired : 18 Aug 2005 10:22 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-009,,
 Misc Info : MW10D-11018,,VBLK\MACTEC 95.1
 Vial Number: 1
 Quant File : 9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081805.B\081820.D
Acq On : 18 Aug 2005 10:22 pm
Sample : 251041-009,,
Misc : MW10D-11018,,VBLK\MACTEC 95.1
MS Integration Params: LSCINT.F

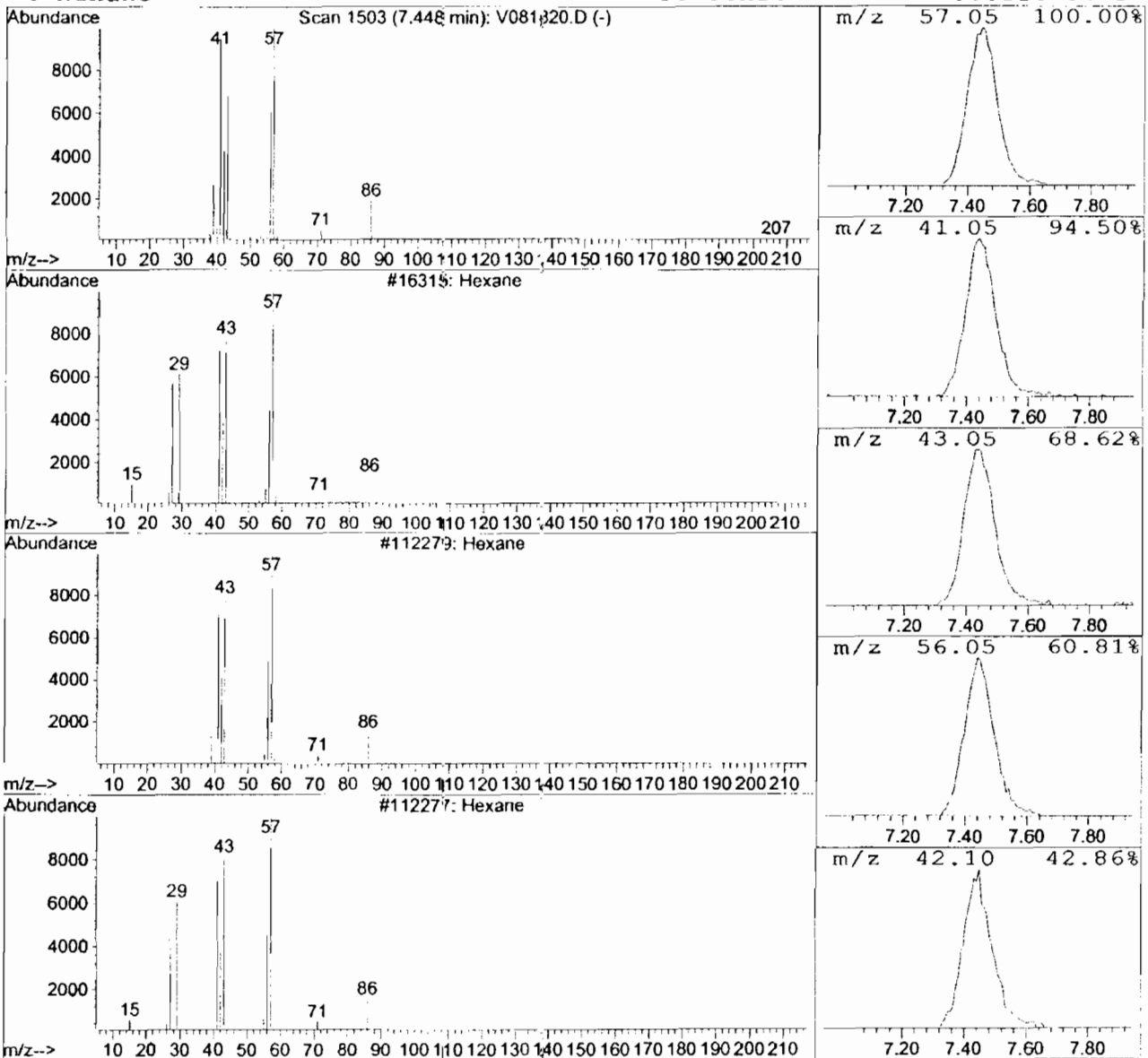
Vial: 1
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.45	8.73 ug/l	1445910	Bromochloromethane	9.28

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	80
2	Hexane			86	C6H14	000110-54-3	64
3	Hexane			86	C6H14	000110-54-3	80
4	Hexane			86	C6H14	000110-54-3	36



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 10:22 pm
 Data File: Z:\MSD\081805.B\V081820.D
 Name: 251041-009,,
 Misc: MW10D-11018,,VBLK\MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.65	5.1	ug/l	839062	ISTD01	9.28	8282470	50.0
Hexane	7.45	8.7	ug/l	1445910	ISTD01	9.28	8282470	50.0

V081820.D 9510818.M Fri Aug 19 11:05:40 2005 RPT1

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW100-2
Date Sampled.....: 08/10/2005
Time Sampled.....: 15:10
Sample Matrix.....: Water

Laboratory Sample ID: 251041-10
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	10	U		10	ug/L	08/18/05	dmd
	Acetone	2.3	J	B	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmd
	Chloroform	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	55	U		10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	10	U		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	1.2	J		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73016

CTDQHS PH-0554

EPA NY049

PA 66-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10D-2

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-010

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081821.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.43	9	JN

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NYSDOH 10142

NJDEP 73015

FORM I VOA-TIC

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

3/90

STL Newburgh
315 Fullerton Avenue
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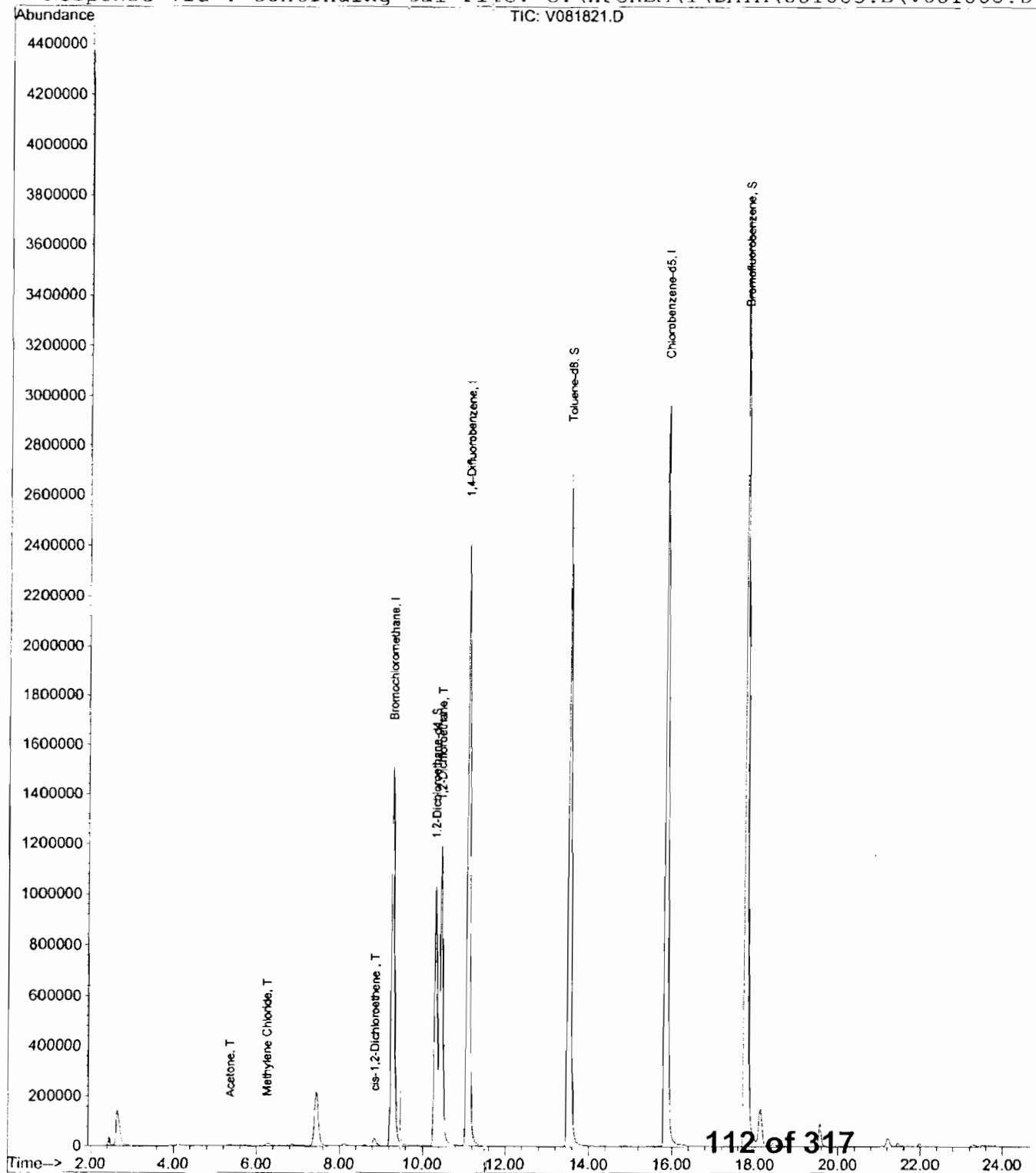
Quantitation Report

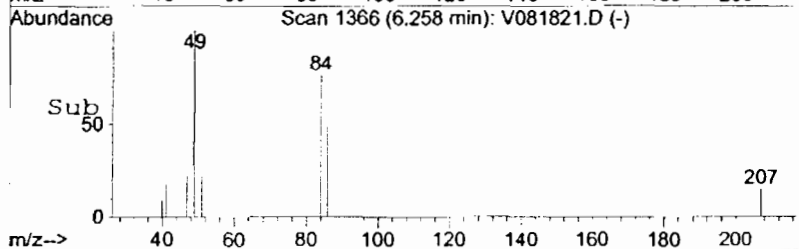
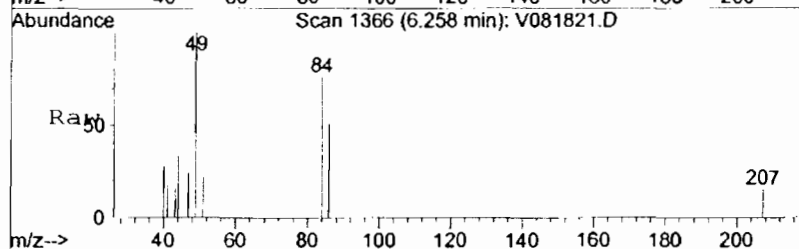
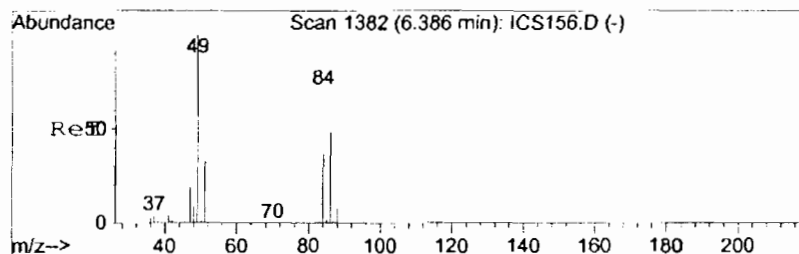
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 Sample : 251041-010,,
 Misc : MW10D-21018,,VBLK|MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:16 19105

Vial: 2
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240 and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D





#9

Methylene Chloride

Concen: 0.53 ug/l m

RT: 6.26 min Scan# 1366

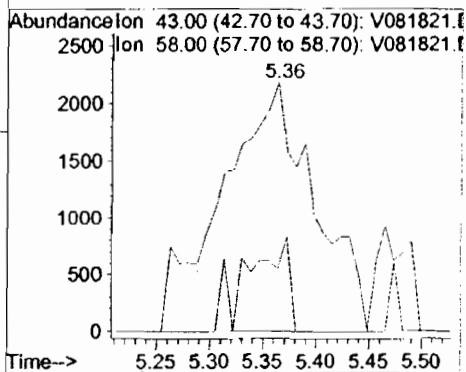
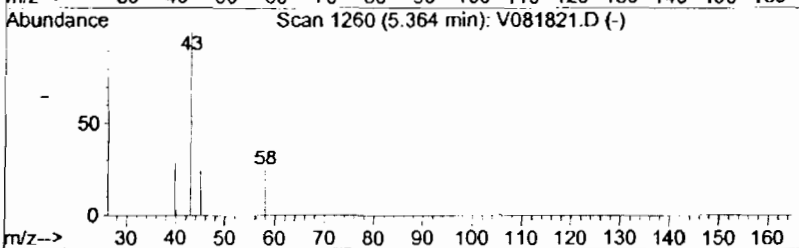
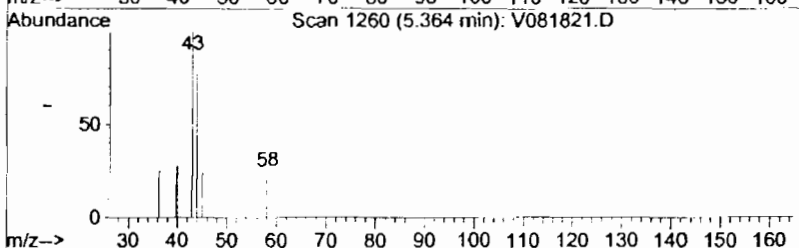
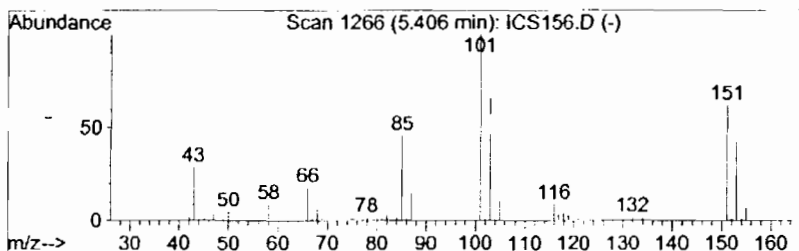
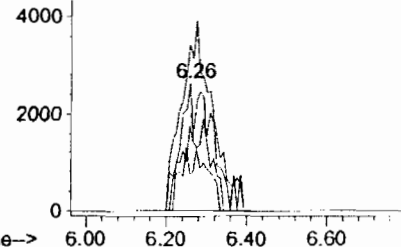
Delta R.T. -0.01 min

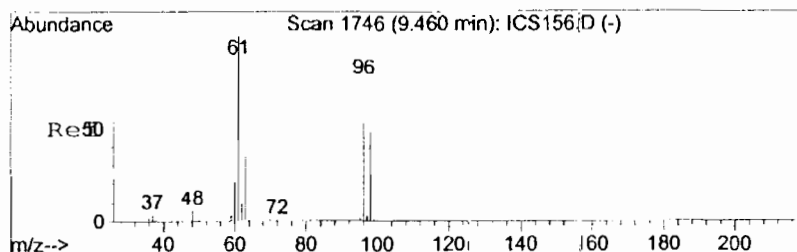
Lab File: V081821.D

Acq: 18 Aug 2005 10:52 pm

Tgt Ion:	84	Resp:	14712
Ion Ratio	Lower	Upper	
84	100		
49	130.7	80.3	120.3#
86	66.8	45.3	85.3
51	28.2	12.7	52.7

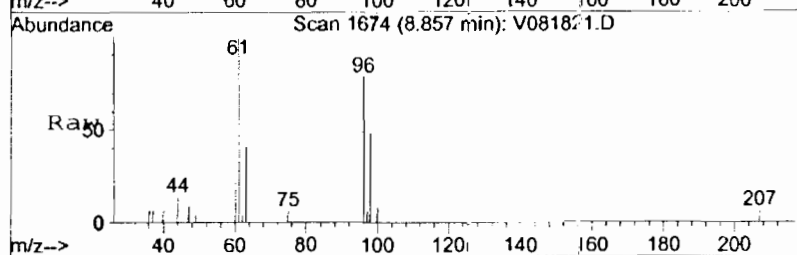
Abundance Ion 84.00 (83.70 to 84.70): V081821.D
 6000 Ion 49.00 (48.70 to 49.70): V081821.D
 Ion 86.00 (85.70 to 86.70): V081821.D
 Ion 51.00 (50.70 to 51.70): V081821.D





#17
 cis-1,2-Dichloroethene
 Concen: 1.15 ug/l
 RT: 8.86 min Scan# 1674
 Delta R.T. 0.01 min
 Lab File: V081821.D
 Acq: 18 Aug 2005 10:52 pm

Tgt Ion	Ratio	Lower	Upper
96	100		
61	127.5	95.1	135.1
98	61.2	47.3	87.3

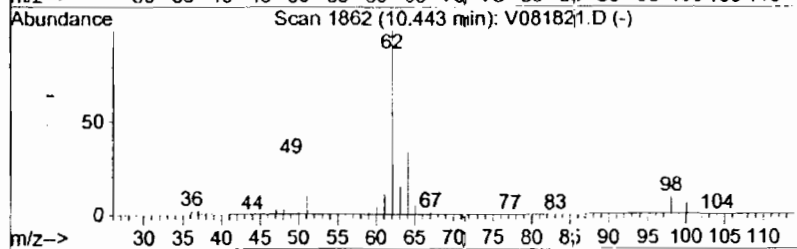
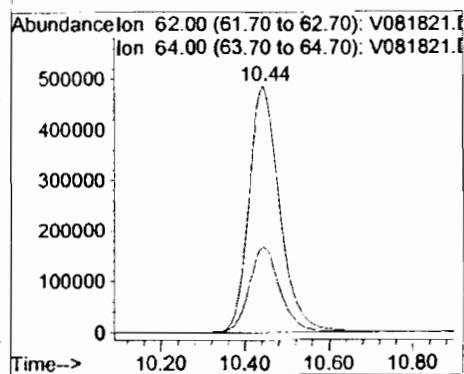
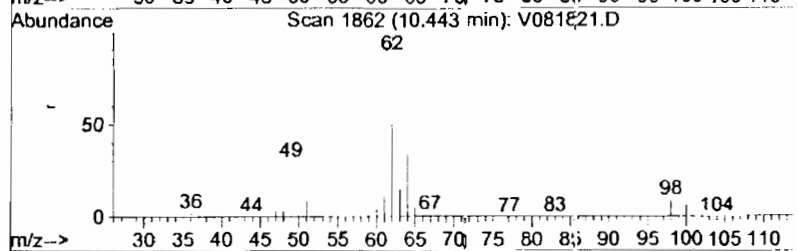
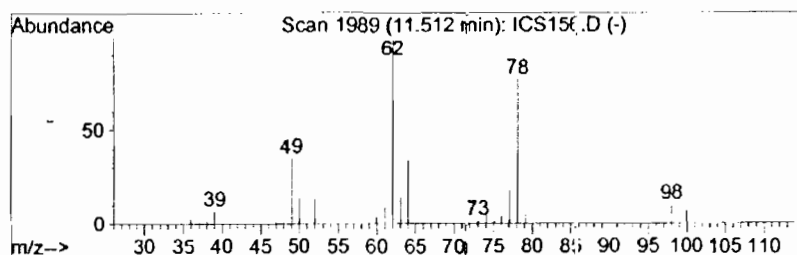
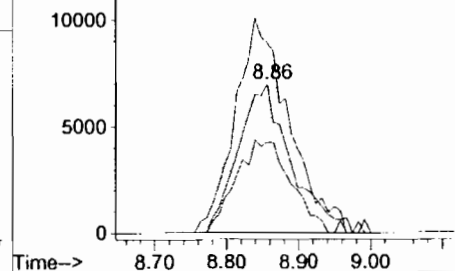
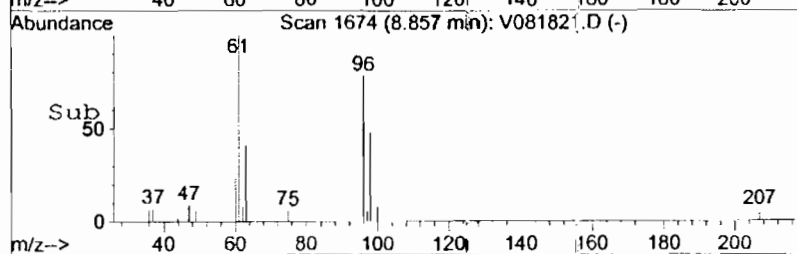


Abundance

Ion 96.00 (95.70 to 96.70): V081821.D

Ion 61.00 (60.70 to 61.70): V081821.D

Ion 98.00 (97.70 to 98.70): V081821.D



Data File : Z:\MSD\081805.B\V081821.D
Acq On : 18 Aug 2005 10:52 pm
Sample : 251041-010,,
Misc : MW10D-2\018,,VBLK\MACTEC 95.1
MS Integration Params: RTEINT.P
Quant Time: Aug 19 10:16 19105

Vial: 2
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RH

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D
DataAcq Meth : 9510818

PMO 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.27	49	1818152	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4612294	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3895582	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	2034401	51.21	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	102.42%
42) Toluene-d8	13.52	98	4324175	49.02	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	98.04%
46) Bromofluorobenzene	17.77	95	3393056	49.22	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	98.44%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
9) Methylene Chloride	6.26	84	1471200	0.53	ug/l	
10) Acetone	5.36	43	11935	2.33	ug/l	100
17) cis-1,2-Dichloroethene	8.86	96	35898	1.15	ug/l	90
20) 1,2-Dichloroethane	10.44	62	2460766	54.58	ug/l	100

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

V081821.D 9510818.M

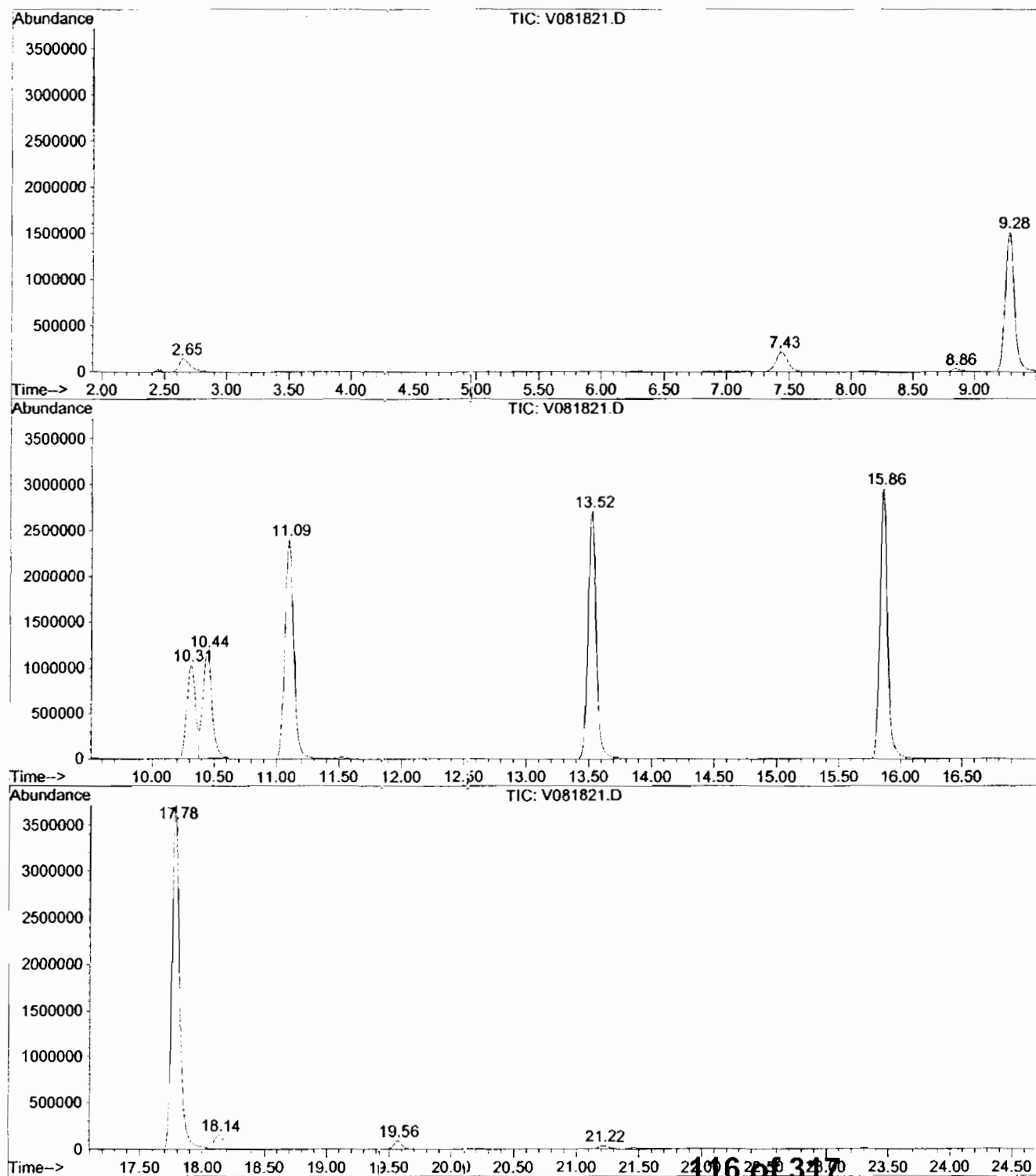
Fri Aug 19 11:05:54 2005

RPT1

Page 1

LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\081821.D
 Operator : DMD
 Acquired : 18 Aug 2005 10:52 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-010,,
 Misc Info : MW10D-21018,,VBLK|MACTEC 95.1
 Vial Number: 2
 Quant File : 9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081805.B\081821.D
Acq On : 18 Aug 2005 10:52 pm
Sample : 251041-010,,
Misc : MW10D-2|018,,VBLK|MACTEC 95.1
MS Integration Params: LSCINT.P

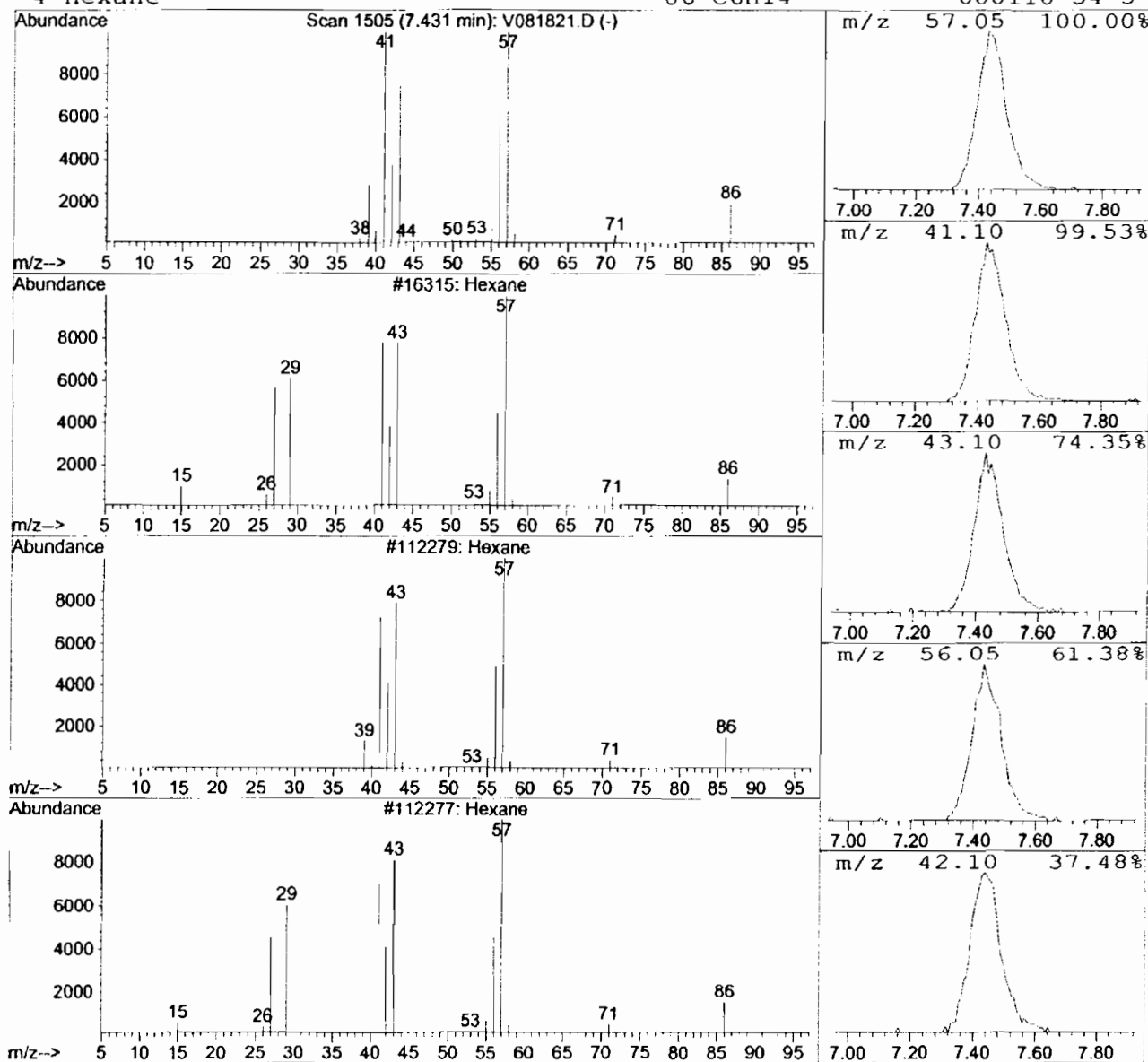
Vial: 2
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.43	9.25 ug/l	1460220	Bromochloromethane	9.27

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	72
2	Hexane			86	C6H14	000110-54-3	80
3	Hexane			86	C6H14	000110-54-3	80
4	Hexane			86	C6H14	000110-54-3	42



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 10:52 pm
 Data File: Z:\MSD\081805.B\V081821.D
 Name: 251041-010,,
 Misc: MW10D-2|018,,VBLK\MACTEC 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\mist98.1

TIC Top Hit name	RT	Est Conc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.65	5.3	ug/l	839694	ISTD01	9.27	7892130	50.0
Hexane	7.43	9.3	ug/l	1460220	ISTD01	9.27	7892130	50.0

V081821.D 9510818.M Fri Aug 19 11:06:12 2005 RPT1

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW10D-3
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 15:20
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-11
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	10	U		10	ug/L	08/18/05	dmd
	Acetone	10	U		10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmd
	Chloroform	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	5.3	J		10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	10	U		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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 Newburgh, NY 12550
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 Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10D-3

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-011

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081822.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	9	JN

120 of 317

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NYSDOH 10142

NJDEP 73015

FORM LVOA-TIC

CTD OHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

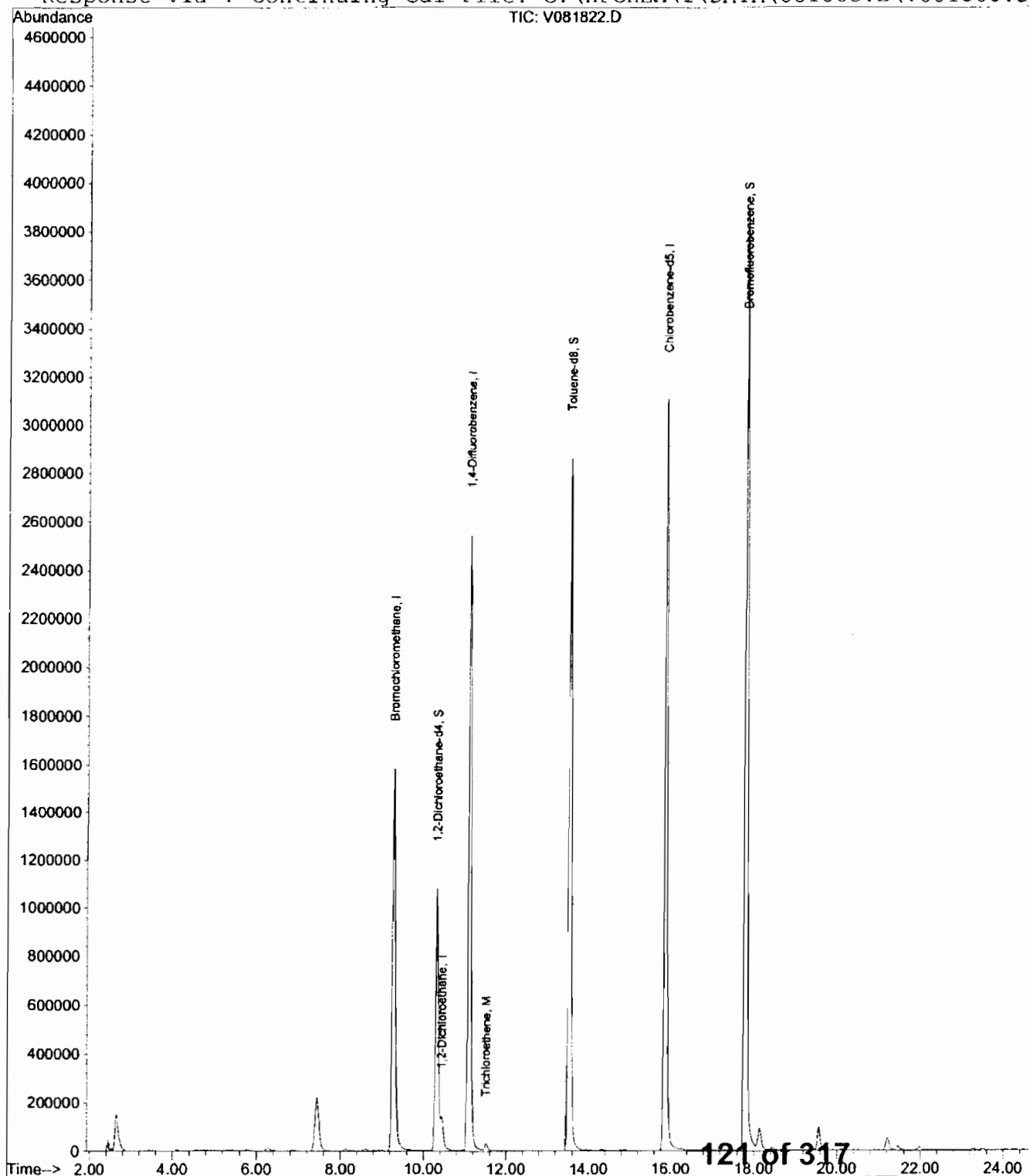
Quantitation Report

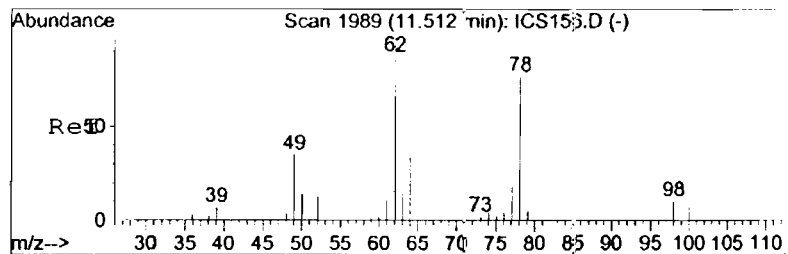
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 Acq On : 18 Aug 2005 11:21 pm
 Sample : 251041-011,,
 Misc : MW10D-3|018,,VBLK|MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 10:17 19105

Vial: 3
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RPT

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D





#20

1,2-Dichloroethane

Concen: 5.28 ug/l

RT: 10.44 min Scan# 1858

Delta R.T. -0.01 min

Lab File: V081822.D

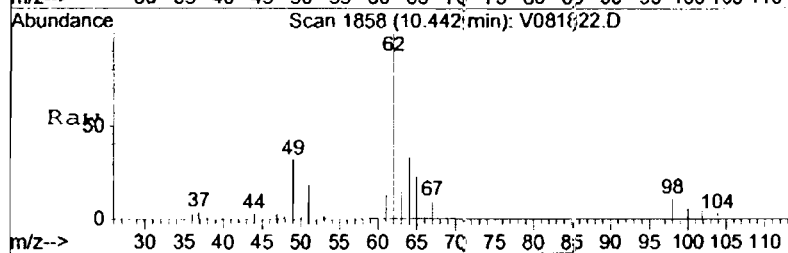
Acq: 18 Aug 2005 11:21 pm

Tgt Ion: 62 Resp: 248422

Ion Ratio Lower Upper

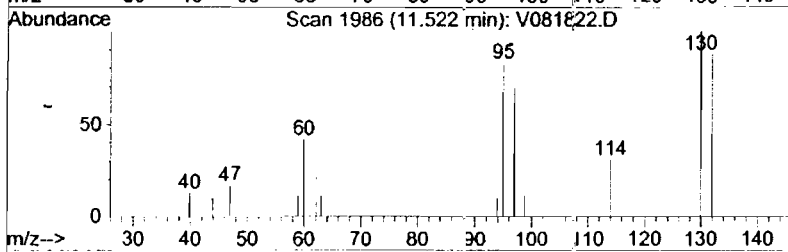
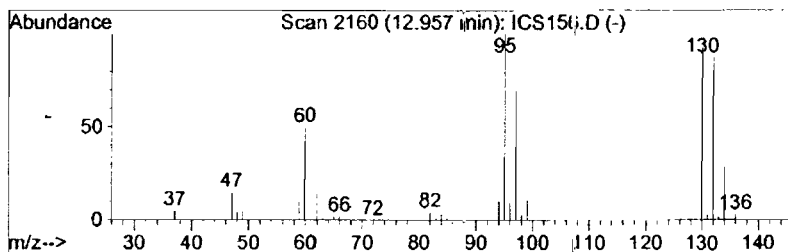
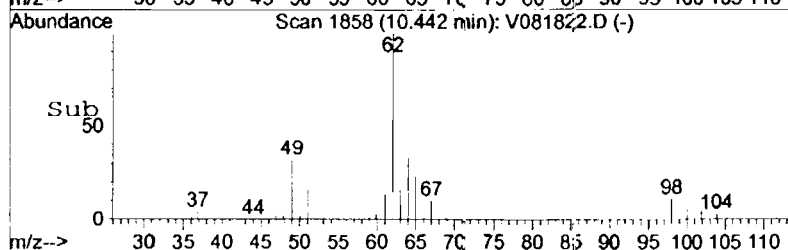
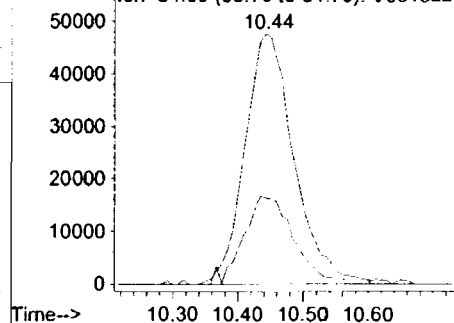
62 100

64 34.4 13.9 53.9



Abundance Ion 62.00 (61.70 to 62.70): V081822.D

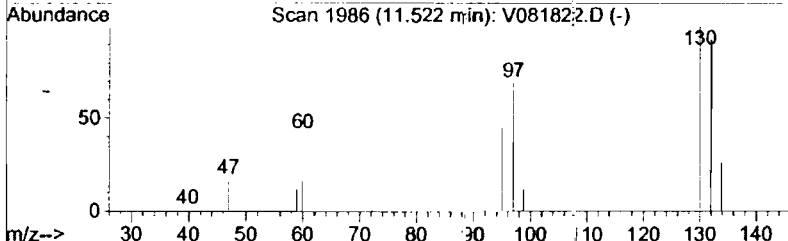
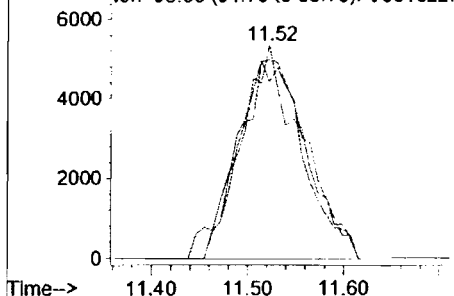
Ion 64.00 (63.70 to 64.70): V081822.D



Abundance Ion 130.00 (129.70 to 130.70): V081822.D

Ion 132.00 (131.70 to 132.70): V081822.D

Ion 95.00 (94.70 to 95.70): V081822.D



Data File : Z:\MSD\081805.B\V081822.D
Acq On : 18 Aug 2005 11:21 pm
Sample : 251041-011,,
Misc : MW10D-31018,,VBLK|MACTEC 95.1
MS Integration Params: RTEINT.P
Quant Time: Aug 19 10:17 19105

Vial: 3
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D
DataAcq Meth : 9510818

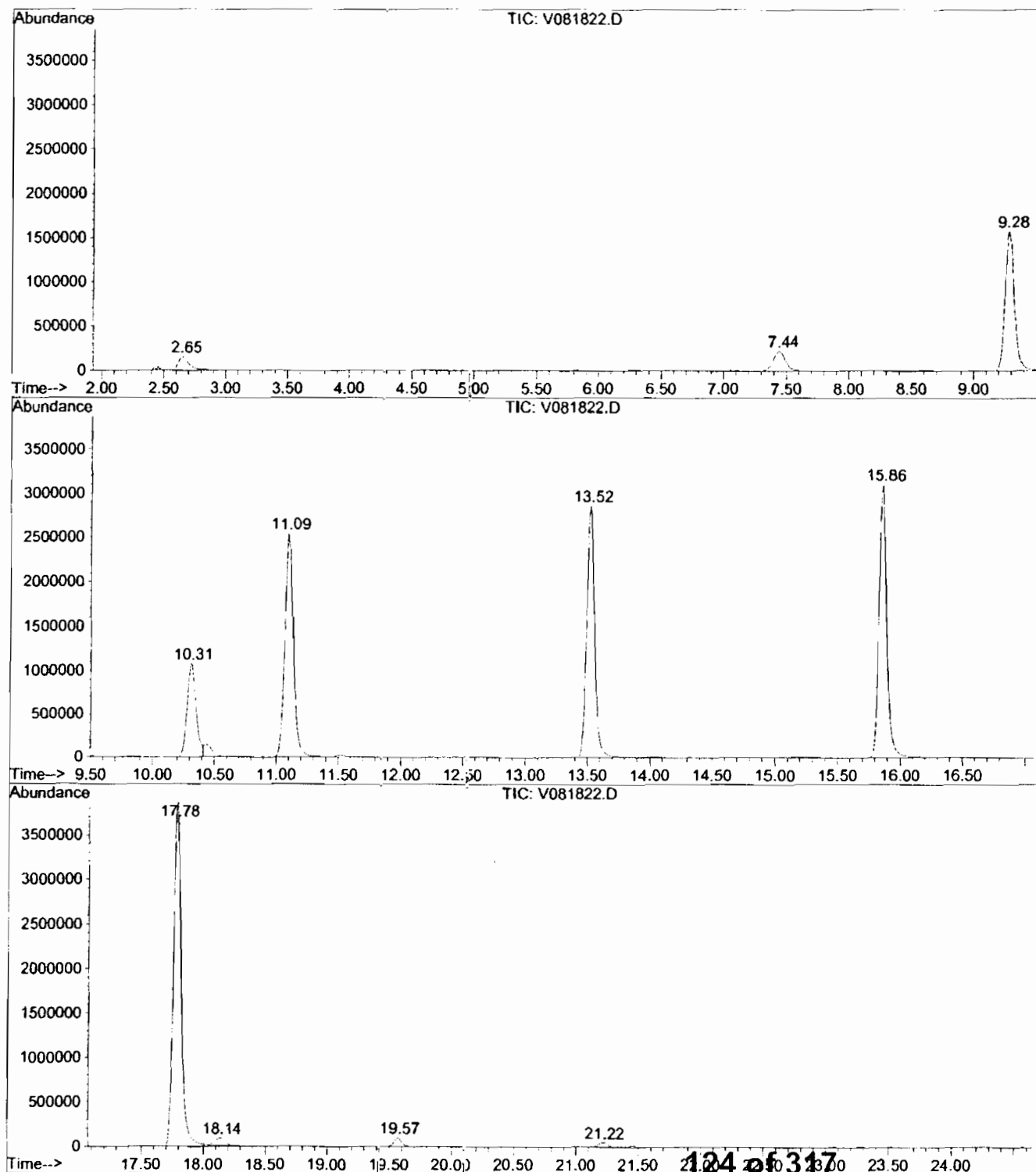
DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.27	49	1899036	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4836426	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	4041326	50.00	ug/l	0.00
System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	10.31	65	2031834	48.97	ug/l	0.00
Spiked Amount 50.000	Range 76	- 114	Recovery	=	97.94%	
42) Toluene-d8	13.52	98	4566326	49.89	ug/l	0.00
Spiked Amount 50.000	Range 88	- 110	Recovery	=	99.78%	
46) Bromofluorobenzene	17.78	95	3532308	49.39	ug/l	0.00
Spiked Amount 50.000	Range 86	- 115	Recovery	=	98.78%	
Target Compounds						
20) 1,2-Dichloroethane	10.44	62	248422	5.28	ug/l	99
29) Trichloroethene	11.52	130	23328	0.55	ug/l	92

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LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\V081822.D
 Operator : DMD
 Acquired : 18 Aug 2005 11:21 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 251041-011,,
 Misc Info : MW10D-31018,,VBLK|MACTEC 95.1
 Vial Number: 3
 Quant File : 9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081805.B\081822.D
Acq On : 18 Aug 2005 11:21 pm
Sample : 251041-011,,
Misc : MW10D-31018,,VBLK|MACTEC 95.1
MS Integration Params: LSCINT.P

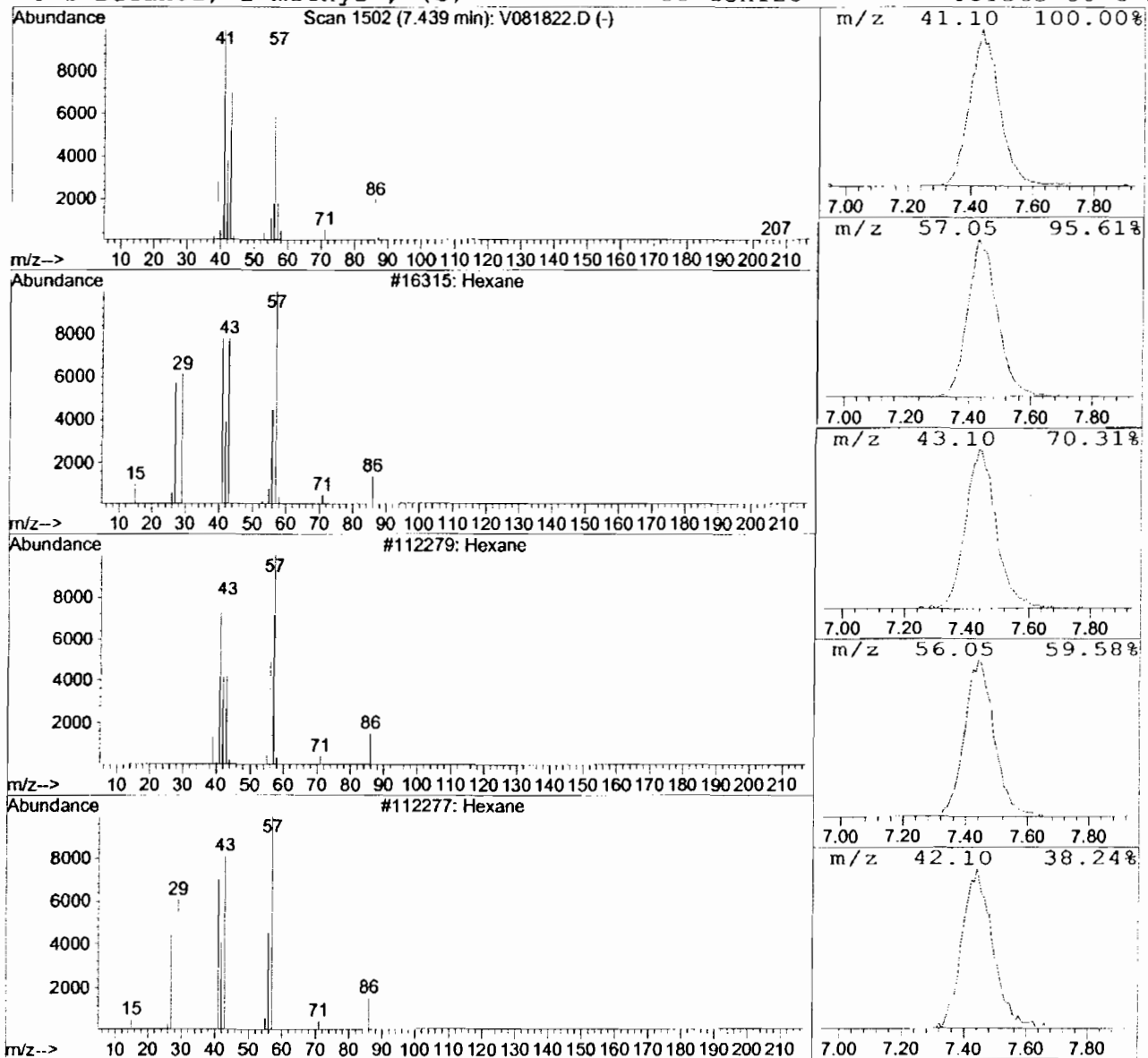
Vial: 3
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 2 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	9.11 ug/l	1497810	Bromochloromethane	9.27

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	72
2	Hexane			86	C6H14	000110-54-3	80
3	Hexane			86	C6H14	000110-54-3	80
4	1-Butanol, 2-methyl-, (S)-			88	C5H12O	001565-80-6	25



Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 11:21 pm
 Data File: Z:\MSD\081805.B\V081822.D
 Name: 251041-011,,
 Misc: MW10D-3|018,,VBLK|MACTEC: 95.1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, chlorodiflu	2.65	5.3	µg/l	875537	ISTD01	9.27	8218120	50.0
Hexane	7.44	9.1	µg/l	1497810	ISTD01	9.27	8218120	50.0

V081822.D 9510818.M Fri Aug 19 11:06:45 2005 RPT1

Response Factor Report MSD

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Calibration

Calibration Files

10 =V081802.D 20 =V081803.D 50 =V081804.D
 100 =V081805.D 200 =V081806.D

	Compound	10	20	50	100	200	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----						
2) T	Dichlorodifluoromethane	0.864	0.948	0.887	0.833	0.853	0.877	5.04
3) T	Chloromethane	0.424	0.460	0.422	0.425	0.417	0.430	4.06
4) T	Bromomethane	0.515	0.556	0.510	0.513	0.489	0.517	4.74
5) T	Vinyl Chloride	0.433	0.491	0.450	0.458	0.451	0.457	4.67
6) T	Chloroethane	0.288	0.324	0.307	0.309	0.267	0.299	7.40
7) T	Trichlorofluoromethane	1.136	1.280	1.218	1.261	1.279	1.235	4.92
8) T	FC-113	1.503	1.759	1.462	1.595	1.326	1.529	10.53
9) T	Methylene Chloride	0.645	0.744	0.646	0.696	0.605	0.667	8.02
10) T	Acetone	0.122	0.134	0.131	0.134	0.124	0.129	4.44
11) T	Carbon Disulfide	0.993	1.397	1.388	1.677	1.425	1.376	17.80
12) T	MTBE	1.231	1.455	1.325	1.457	1.291	1.352	7.46
13) M	1,1-Dichloroethene	0.614	0.713	0.624	0.701	0.593	0.649	8.42
14) T	1,1-Dichloroethane	1.199	1.431	1.202	1.334	1.231	1.280	7.89
15) t	Methyl Acetate	0.290	0.341	0.307	0.337	0.301	0.315	7.17
16) T	trans-1,2-Dichloroeth	0.652	0.773	0.693	0.772	0.670	0.712	7.97
17) T	cis-1,2-Dichloroethen	0.665	0.797	0.684	0.761	0.696	0.721	7.73
18) T	Chloroform	1.485	1.729	1.457	1.604	1.476	1.550	7.44
19) S	1,2-Dichloroethane-d4	0.970	1.157	1.149	1.186	1.202	1.133	8.27
20) T	1,2-Dichloroethane	1.013	1.178	0.991	1.069	0.986	1.048	7.67
21) T	2-Butanone	0.136	0.174	0.170	0.180	0.184	0.169	11.40
22) I	1,4-Difluorobenzene	-----ISTD-----						
23) T	1,1,1-Trichloroethane	0.439	0.533	0.459	0.516	0.471	0.484	8.18
24) T	Carbon Tetrachloride	0.423	0.531	0.468	0.526	0.476	0.485	9.25
25) t	Cyclohexane	0.349	0.427	0.354	0.395	0.347	0.374	9.43
26) T	Bromodichloromethane	0.428	0.548	0.500	0.577	0.539	0.518	11.13
27) T	1,2-Dichloropropane	0.278	0.331	0.279	0.306	0.282	0.295	7.80
28) T	cis-1,3-Dichloroprope	0.322	0.417	0.378	0.432	0.411	0.392	11.20
29) M	Trichloroethene	0.346	0.411	0.351	0.388	0.347	0.369	8.00
30) M	Benzene	0.645	0.765	0.640	0.708	0.642	0.680	8.15
31) t	Methylcyclohexane	0.362	0.447	0.374	0.413	0.365	0.392	9.38
32) T	Dibromochloromethane	0.377	0.507	0.495	0.557	0.488	0.485	13.60
33) T	trans-1,3-Dichloropro	0.264	0.353	0.332	0.384	0.363	0.339	13.54
34) T	1,1,2-Trichloroethane	0.249	0.297	0.256	0.282	0.246	0.266	8.48
35) T	Bromoform	0.250	0.359	0.357	0.432	0.385	0.357	18.77
36) I	Chlorobenzene-d5	-----ISTD-----						
37) T	4-Methyl-2-Pentanone	0.190	0.225	0.227	0.226	0.241	0.222	8.48
38) T	2-Hexanone	0.125	0.143	0.155	0.149	0.154	0.145	8.37
39) T	Tetrachloroethene	0.599	0.707	0.605	0.615	0.543	0.614	9.65
40) t	1,2-Dibromoethane	0.477	0.573	0.533	0.559	0.512	0.531	7.17
41) T	1,1,2,2-Tetrachloroet	0.423*	0.511*	0.453*	0.483*	0.450*	0.464*	7.31
42) S	Toluene-d8	0.960	1.186	1.205	1.214	1.288	1.170	10.58
43) M	Toluene	0.974	1.149	0.981	1.031	0.994	1.026	7.05
44) M	Chlorobenzene	0.779	0.912	0.781	0.841	0.768	0.816	7.43
45) T	Ethylbenzene	1.151	1.369	1.192	1.300	1.197	1.242	7.24
46) S	Bromofluorobenzene	0.746	0.893	0.907	0.942	0.919	0.882	8.81
47) T	m,p-Xylene	0.964	1.146	0.987	1.078	0.896	1.014	9.69
48) T	o-Xylene	0.989	1.153	1.010	1.086	0.988	1.045	6.94
49) T	Styrene	0.502	0.618	0.539	0.590	0.543	0.558	8.16
50) t	Isopropylbenzene	1.198	1.463	1.263	1.367	1.234	1.305	8.30
51) T	1,3-Dichlorobenzene	0.764	0.915	0.804	0.815	0.770	0.814	7.43
52) T	1,4-Dichlorobenzene	0.824	0.971	0.870	0.817	0.823	0.873	6.85

* Does not meet method requirements DMD 8/31/05

Response Factor Report MSD

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Calibration

Calibration Files

10 =V081802.D 20 =V081803.D 50 =V081804.D
 100 =V081805.D 200 =V081806.D

	Compound	10	20	50	100	200	Avg	%RSD
53) T	1,2-Dichlorobenzene	0.736	0.876	0.753	0.751	0.715	0.766	8.23
54) t	1,2-Dibromo-3-Chlorop	0.066	0.094	0.090	0.088	0.089	0.085	13.16
55) t	1,2,4-Trichlorobenzen	0.543	0.706	0.589	0.531	0.475	0.569	15.28

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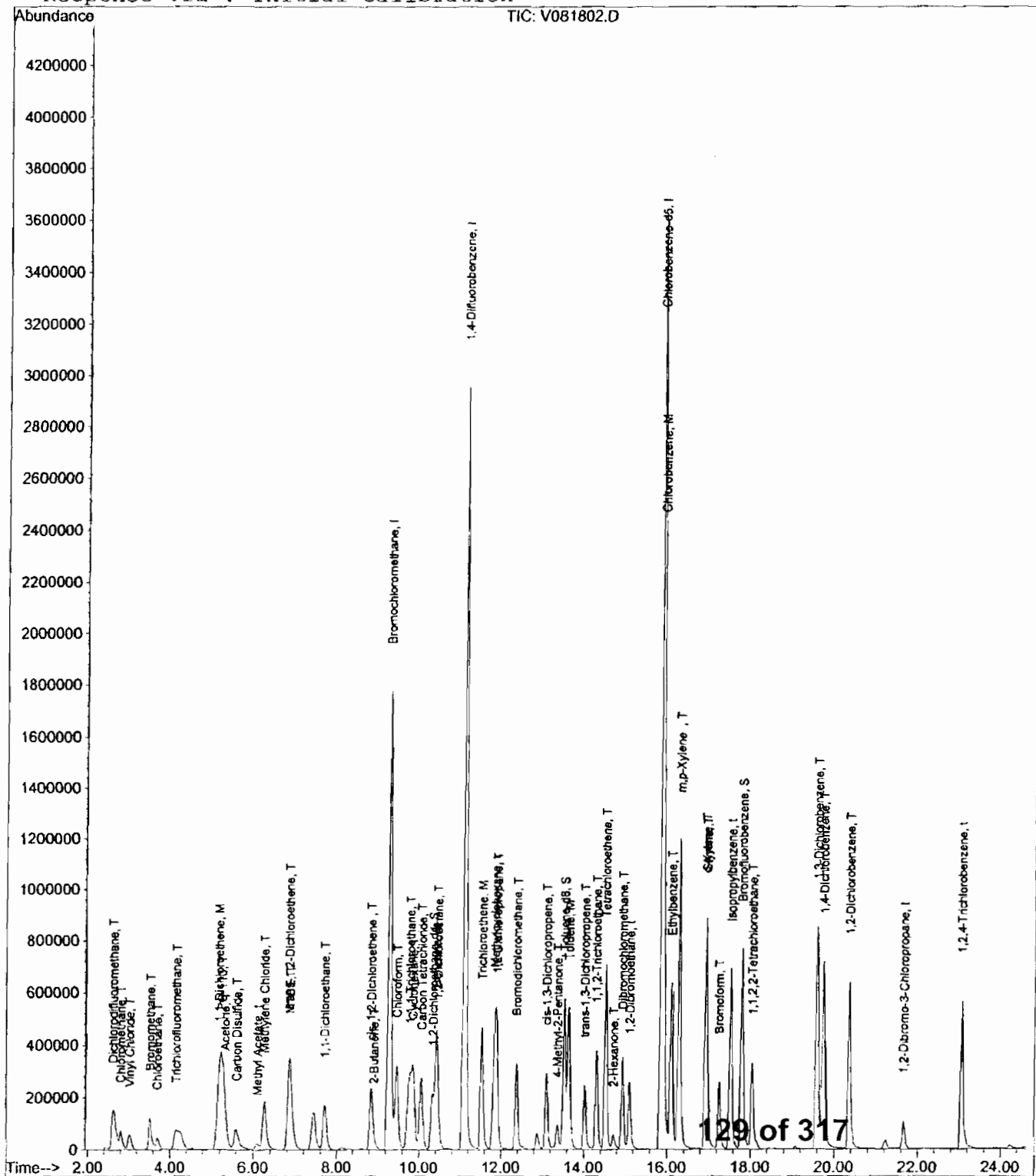
Quantitation Report

Data File : Z:\MSD\081805.B\V081802.D
Acq On : 18 Aug 2005 10:26 am
Sample : 010,,VSTD
Misc : VSTD010
MS Integration Params: RTEINT.P
Quant Time: Aug 18 13:58 19105

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Initial Calibration

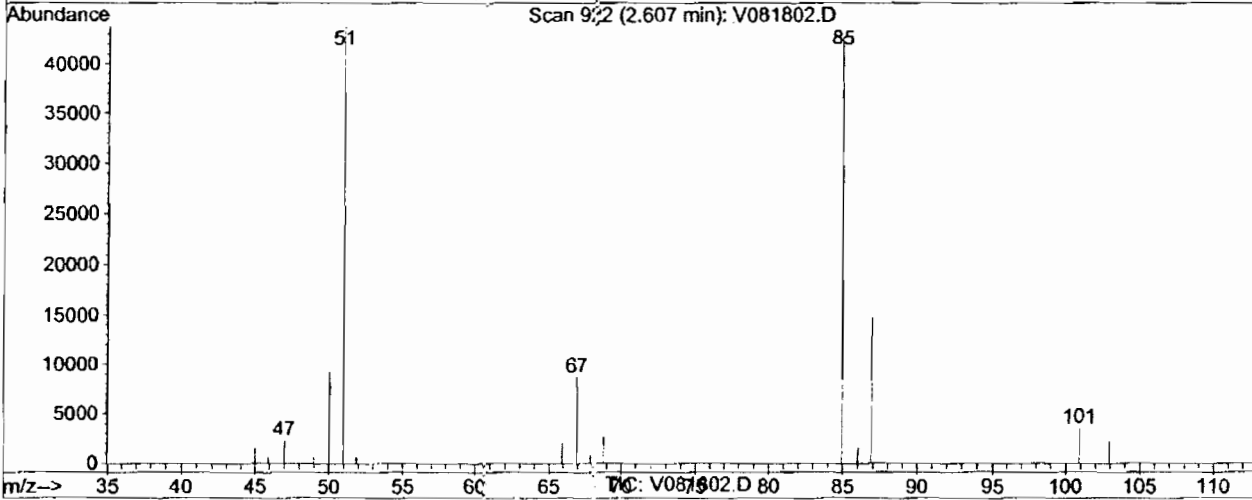
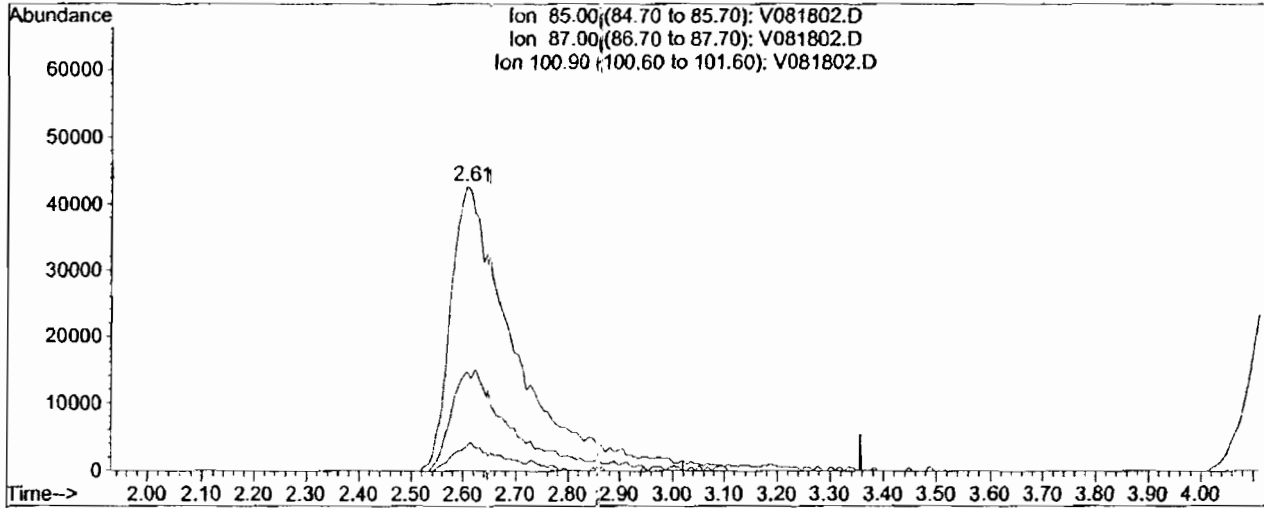


Quantitation Report

Data File : Z:\MSD\081805.B\V081802.D
 Acq On : 18 Aug 2005 10:26 am
 Sample : 010,,VSTD
 Misc : VSTD010
 Quant Time: Aug 18 13:58 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane (T)

2.61min 8.02ug/l m

response 360779

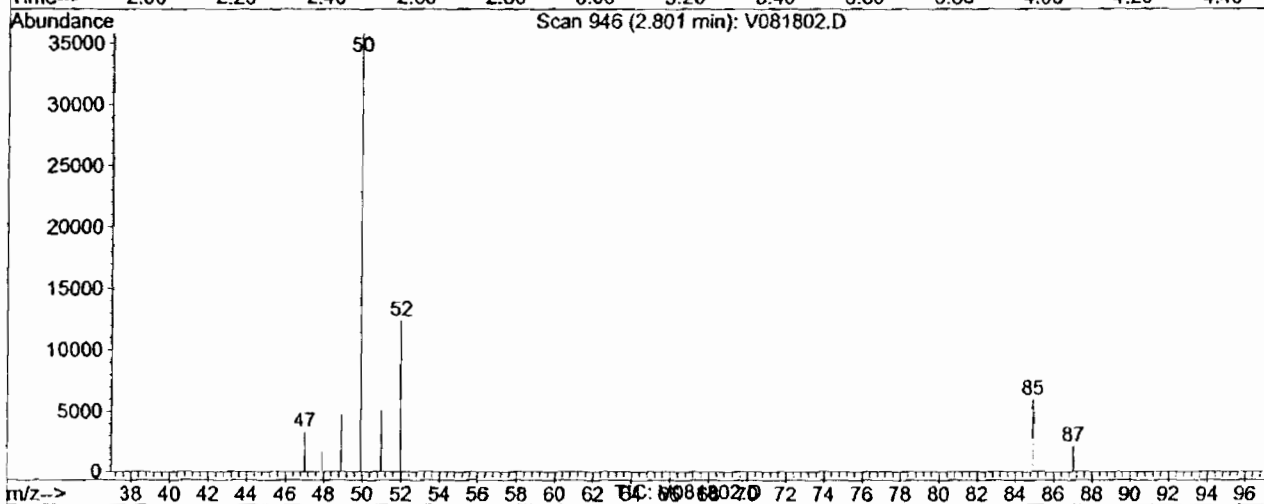
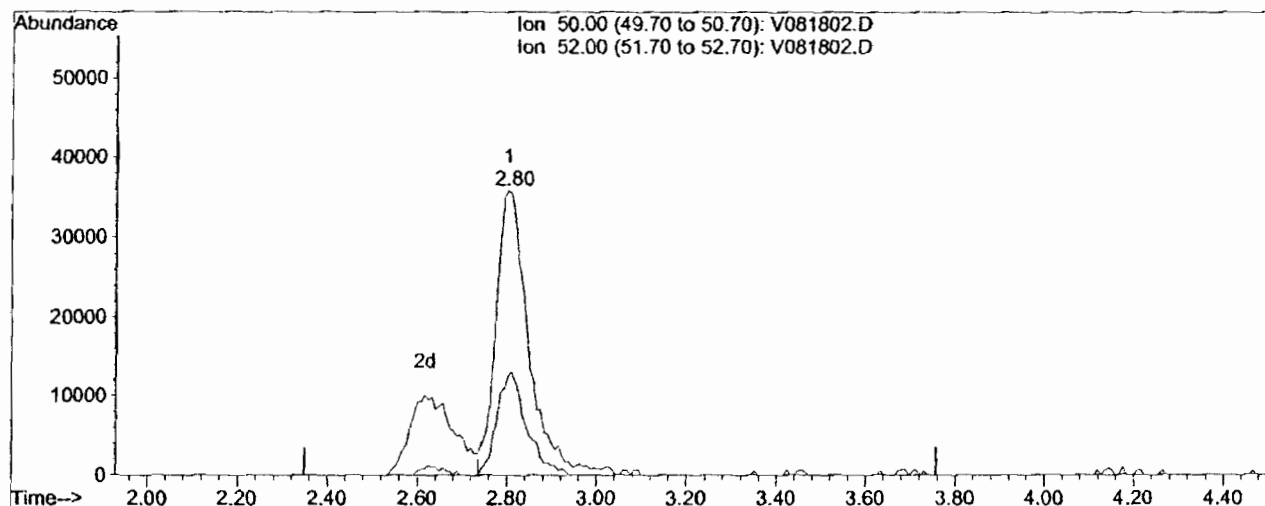
Ion	Exp%	Act%
85.00	100	100
87.00	32.70	34.50
100.90	9.70	8.33
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\V081802.D
 Acq On : 18 Aug 2005 10:26 am
 Sample : 010,,VSTD
 Misc : VSTD010
 Quant Time: Aug 18 13:58 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(3) Chloromethane (T)

2.80min 8.30ug/l m

response 176831

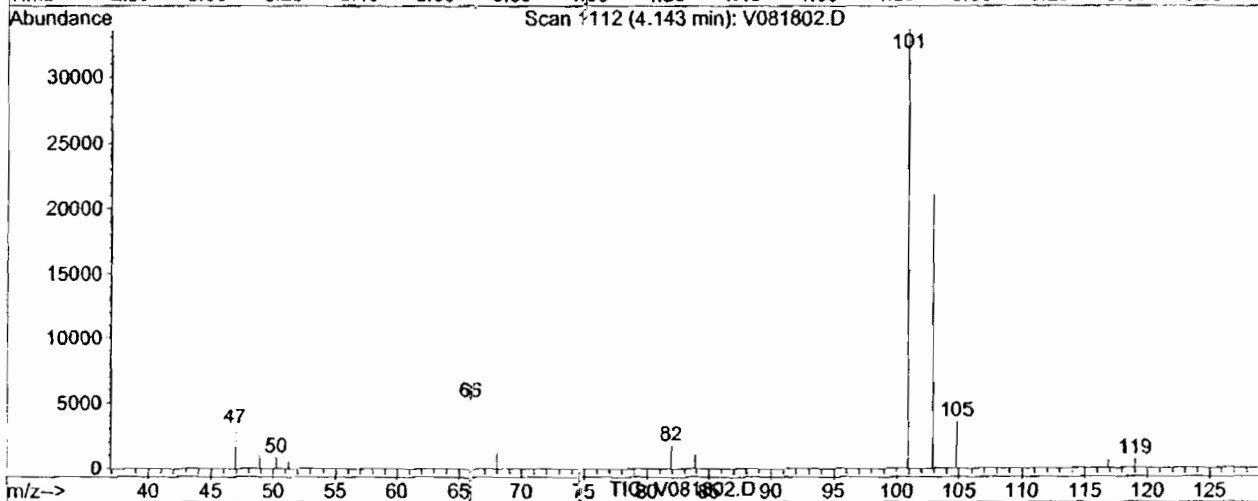
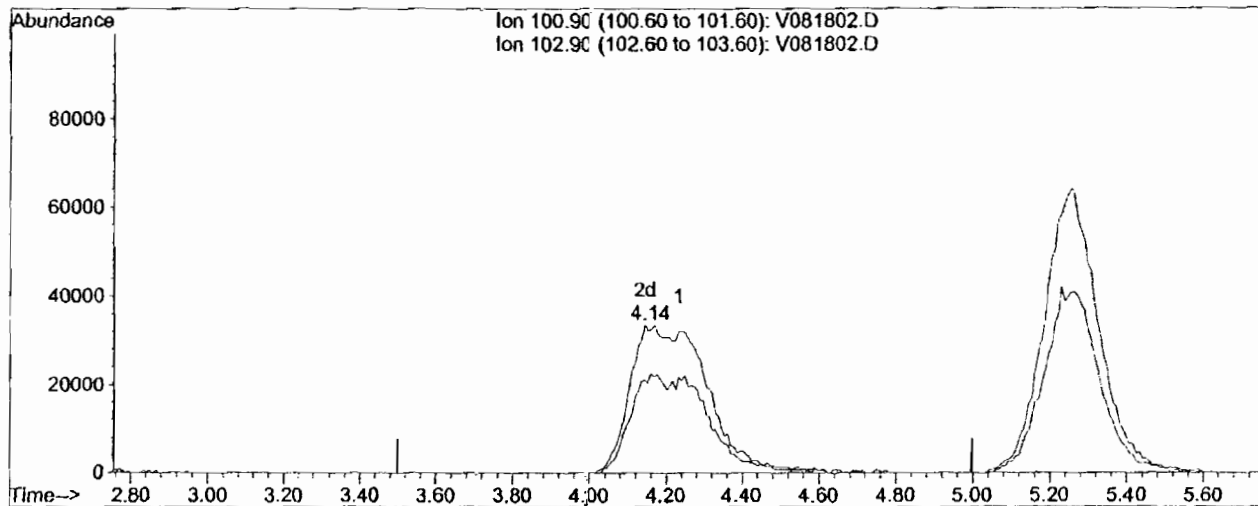
Ion	Exp%	Act%
50.00	100	100
52.00	34.80	34.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\V081802.D
 Acq On : 18 Aug 2005 10:26 am
 Sample : 010,,VSTD
 Misc : VSTD010
 Quant Time: Aug 18 13:58 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 13 14:01:32 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.14min 8.73ug/l m

response 474008

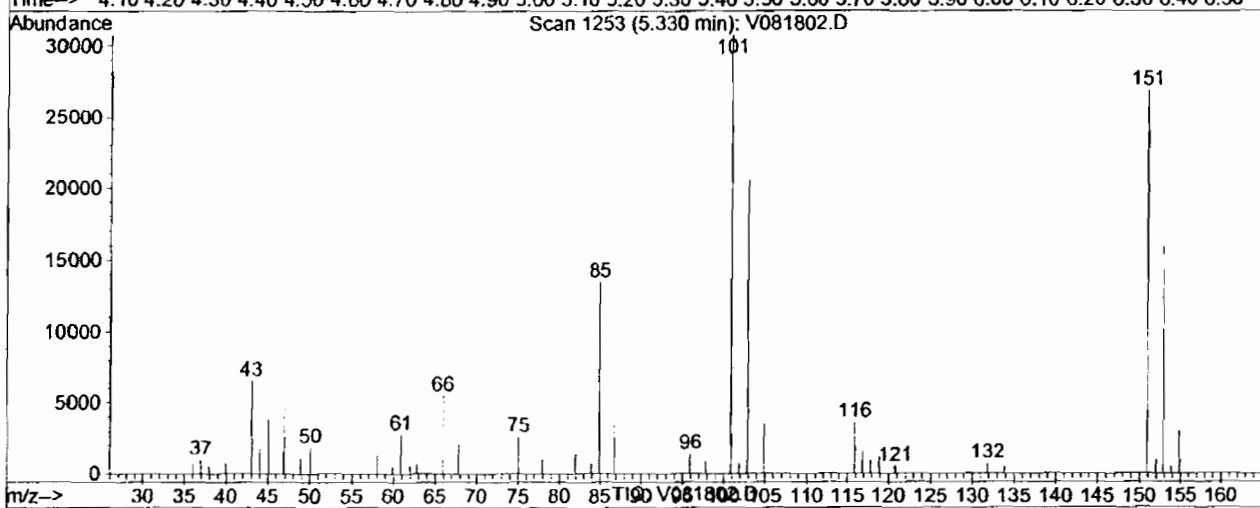
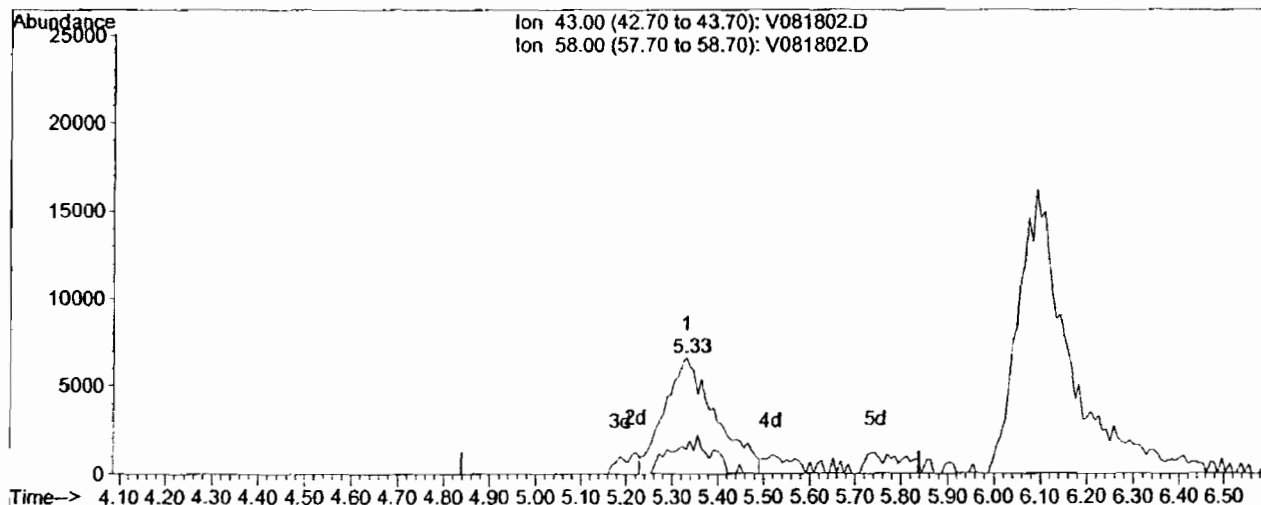
Ion	Exp%	Act%
100.90	100	100
102.90	64.40	62.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\V081802.D
 Acq On : 18 Aug 2005 10:26 am
 Sample : 010,,VSTD
 Misc : VSTD010
 Quant Time: Aug 18 13:58 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(10) Acetone (T)

5.33min 9.79ug/l m

response 50730

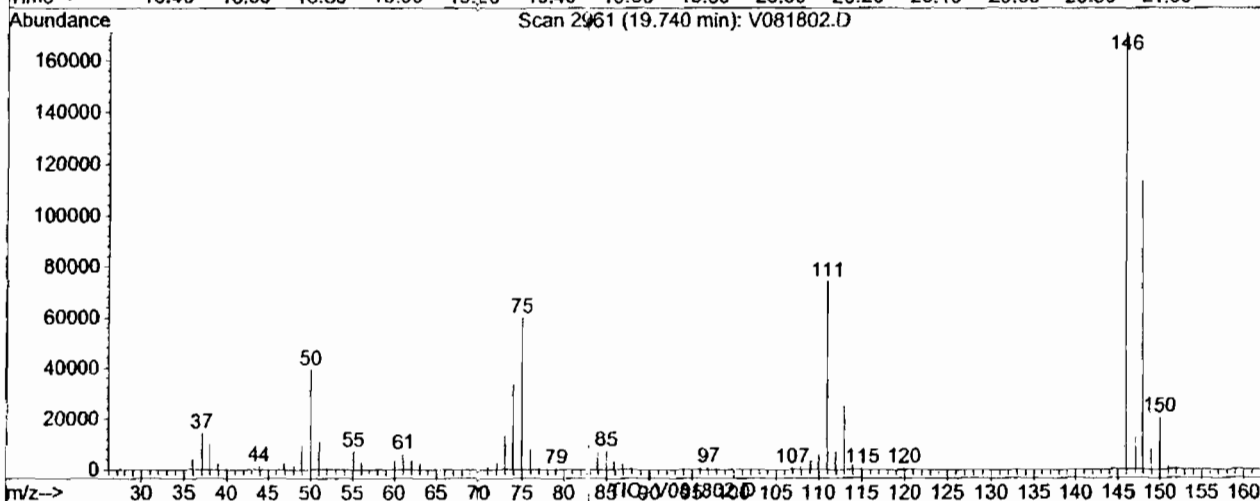
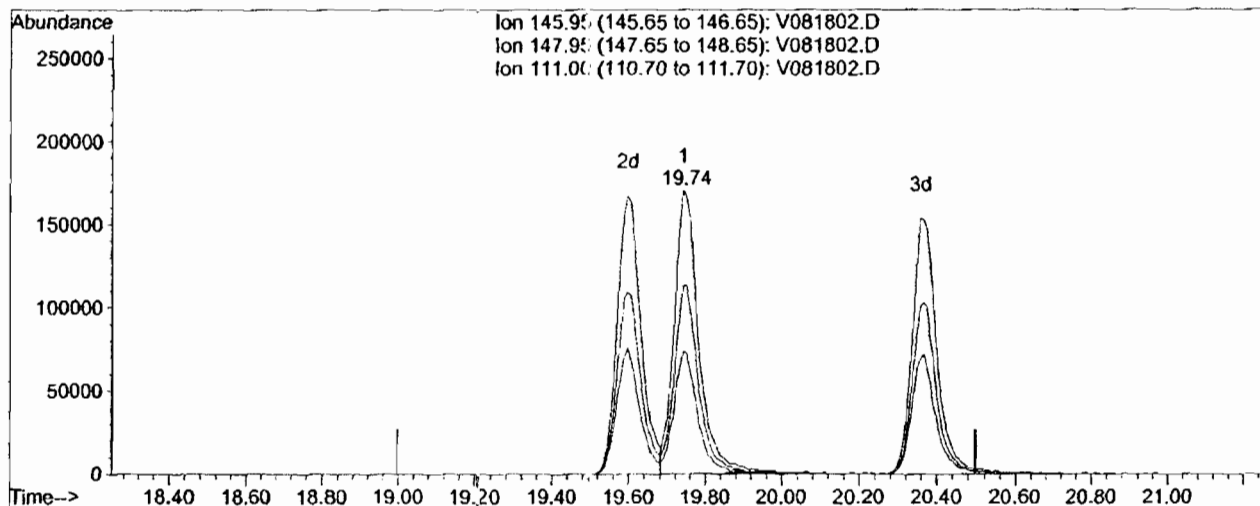
Ion	Exp%	Act%
43.00	100	100
58.00	25.20	20.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\081802.D
 Acq On : 18 Aug 2005 10:26 am
 Sample : 010,,VSTD
 Misc : VSTD010
 Quant Time: Aug 18 13:58:19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(52) 1,4-Dichlorobenzene (T)

19.74min 9.14ug/l

response 762784

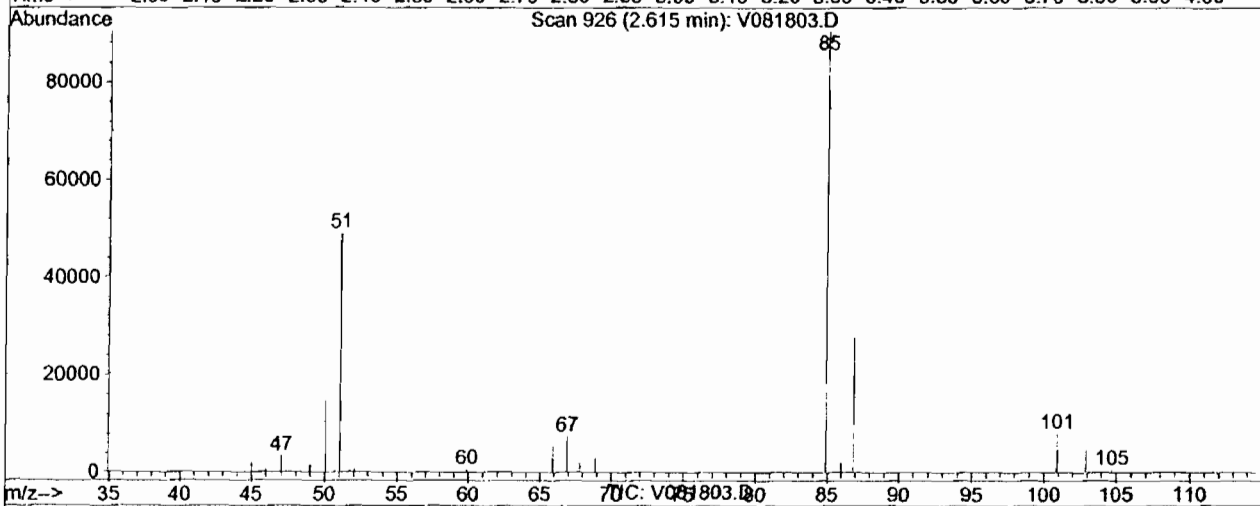
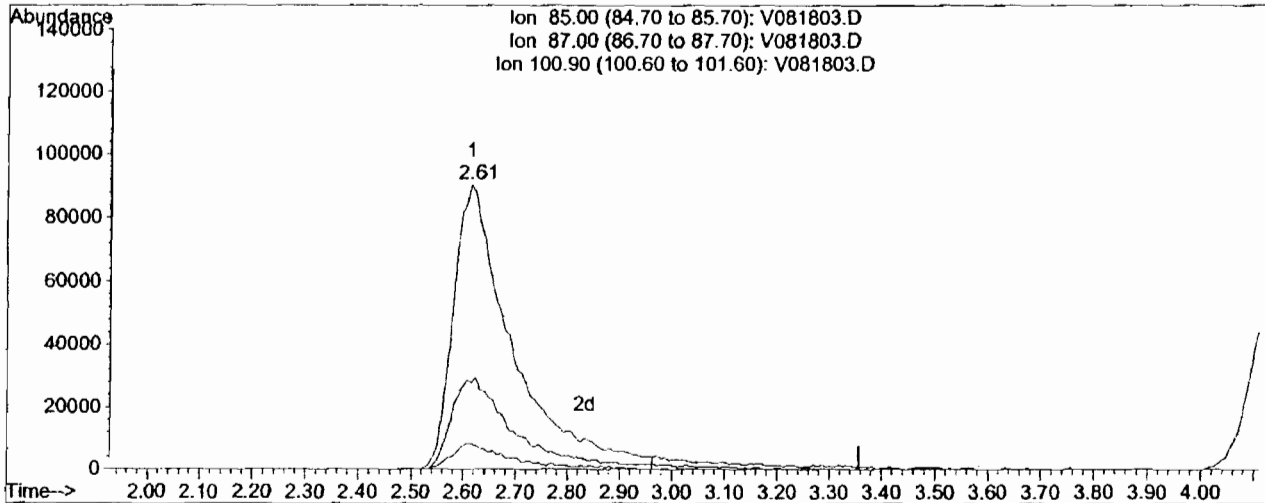
Ion	Exp%	Act%
145.95	100	100
147.95	63.70	66.32
111.00	36.70	43.42
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\V081803.D
 Acq On : 18 Aug 2005 11:15 am
 Sample : 020,,VSTD
 Misc : VSTD020
 Quant Time: Aug 18 13:59 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(2) Dichlorodifluoromethane (T)

2.61min 17.59ug/l m

response 714378

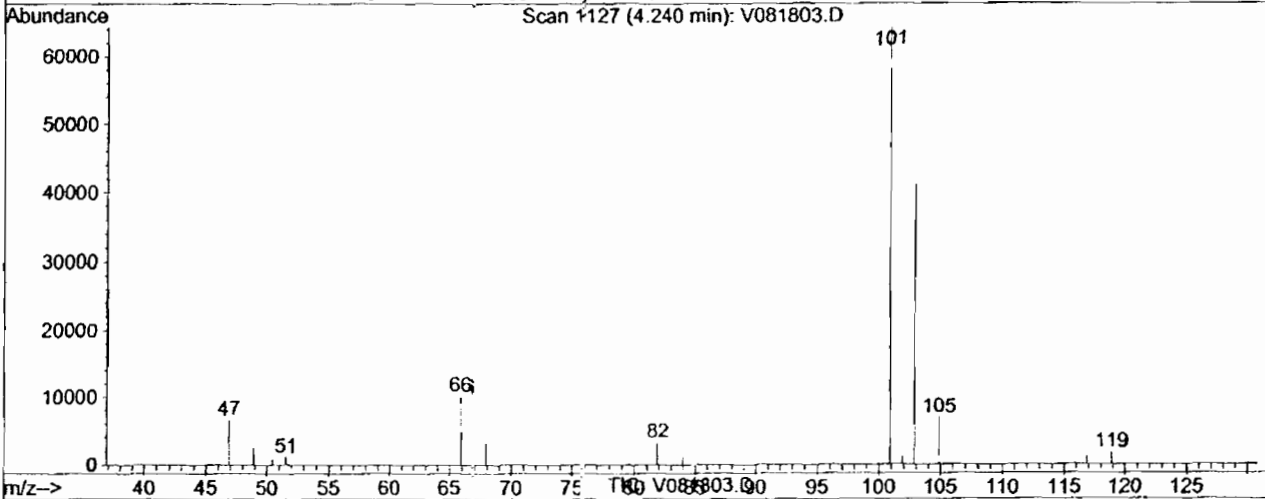
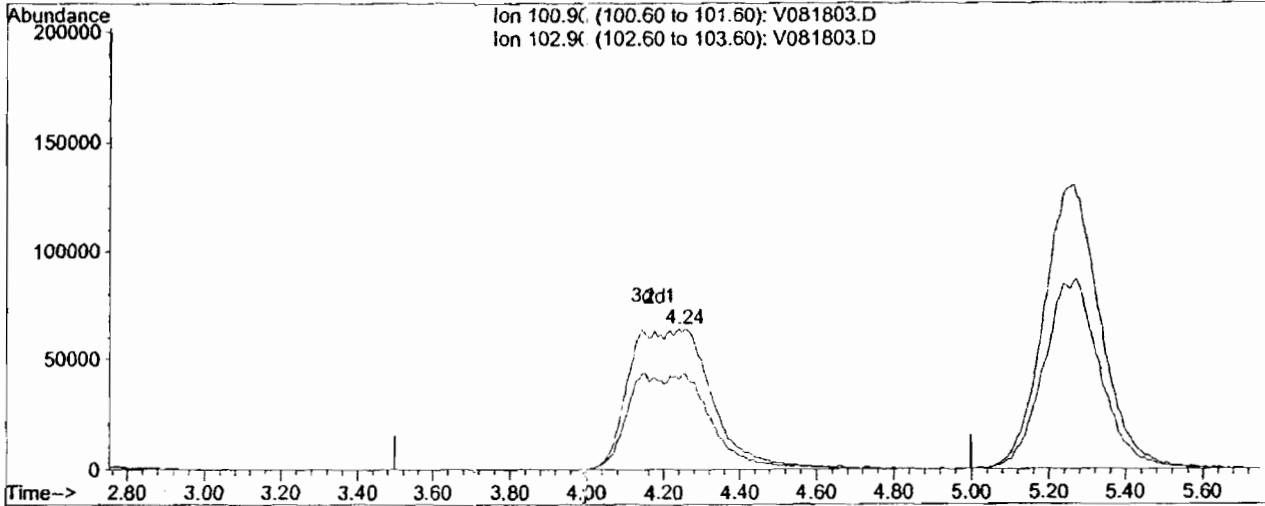
Ion	Exp%	Act%
85.00	100	100
87.00	32.70	30.65
100.90	9.70	8.93
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\081803.D
 Acq On : 18 Aug 2005 11:15 am
 Sample : 020,,VSTD
 Misc : VSTD020
 Quant Time: Aug 18 13:59 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.24min 19.68ug/l m

response 964627

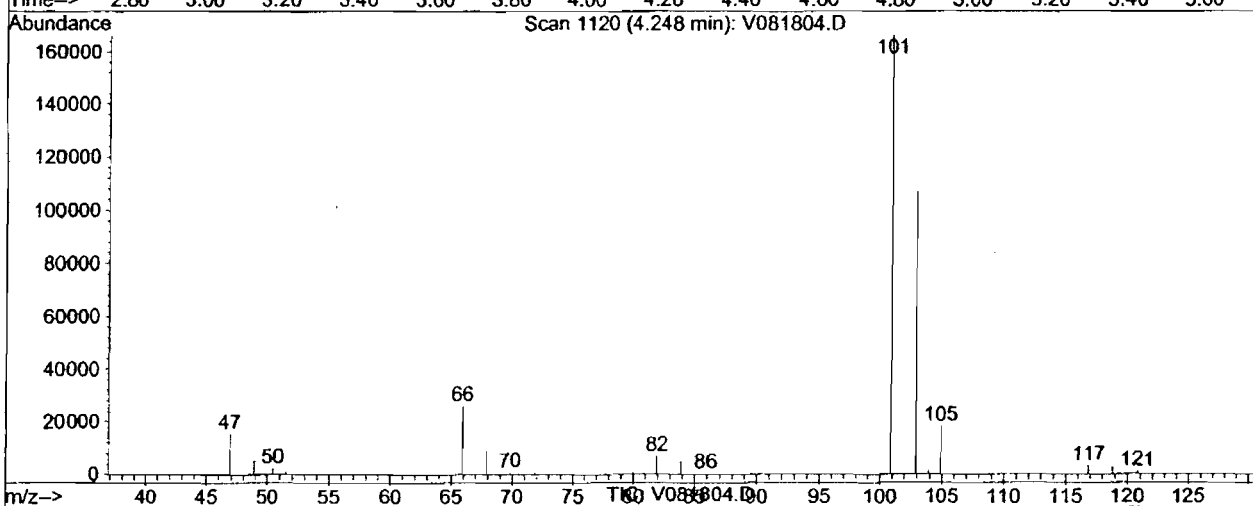
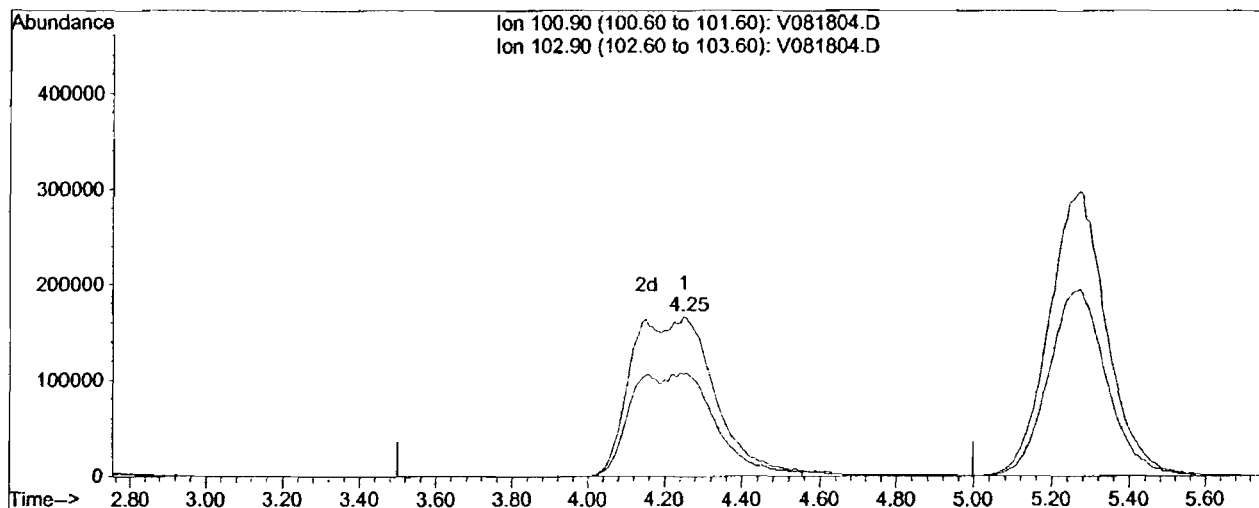
Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\V081804.D
 Acq On : 18 Aug 2005 12:17 pm
 Sample : 050,,VSTD
 Misc : VSTD050
 Quant Time: Aug 18 13:59 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.25min 46.81ug/l m

response 2541290

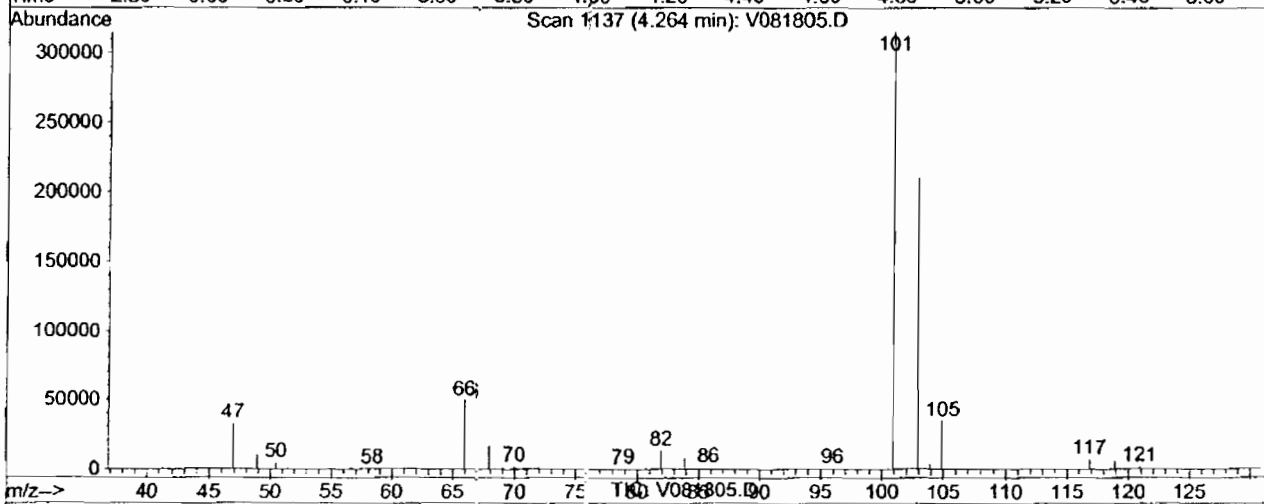
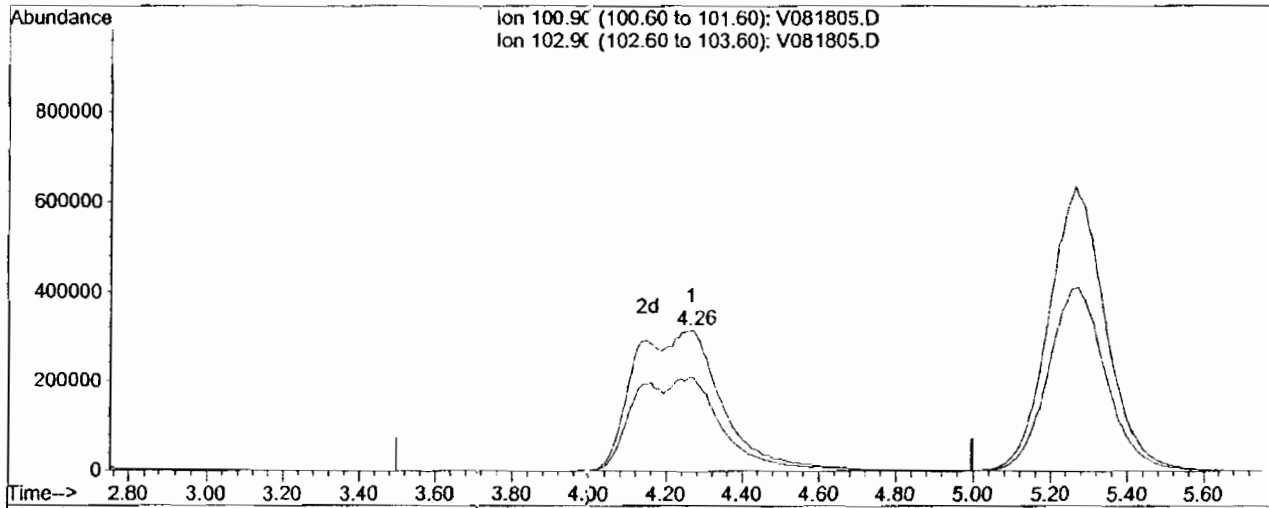
Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\081805.D
 Acq On : 18 Aug 2005 1:26 pm
 Sample : 100,,VSTD
 Misc : VSTD100
 Quant Time: Aug 18 14:00 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8210, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.26min 96.93ug/l m

response 5132470

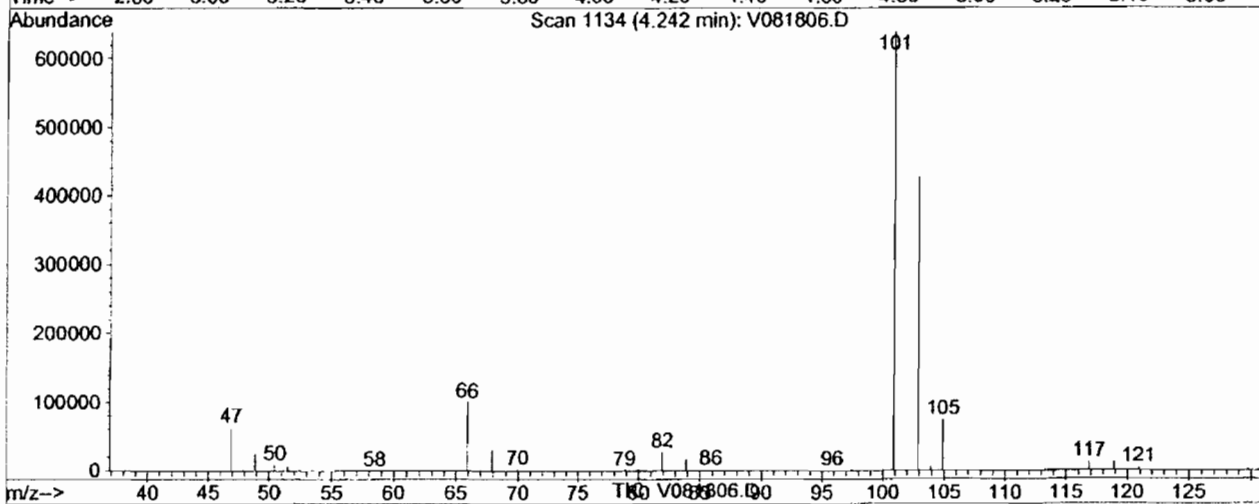
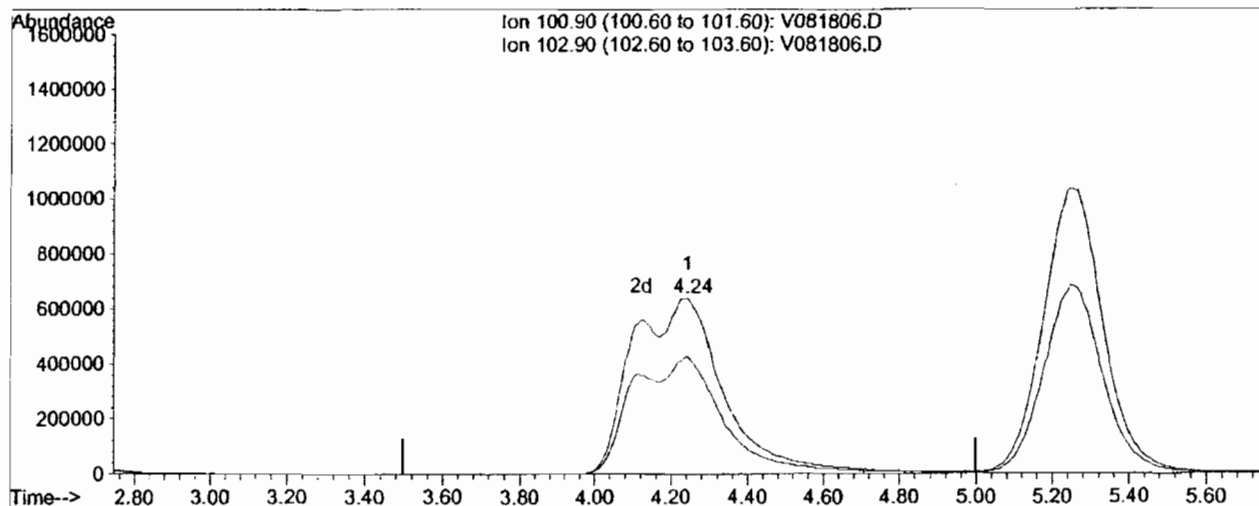
Ion	Exp%	Act%
100.90	100	100
102.90	64.40	66.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : Z:\MSD\081805.B\V081806.D
 Acq On : 18 Aug 2005 2:08 pm
 Sample : 200,,VSTD
 Misc : VSTD200
 Quant Time: Aug 18 14:35 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.24min 196.61ug/l m

response 10689436

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	66.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081802.D
 Acq On : 18 Aug 2005 10:26 am
 Sample : 010,,VSTD
 Misc : VSTD010
 MS Integration Params: RTEINT.P
 Quant Time: Aug 18 13:58 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Jul 28 11:21:59 2005
 Response via : Initial Calibration
 DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.29	49	2086735	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.11	114	5679146	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.87	117	4630461	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	404653	8.34	ug/l	0.00
Spiked Amount	50.000	Range 76 - 114	Recovery	=	16.68%#	
42) Toluene-d8	13.53	98	889050	7.97	ug/l	0.00
Spiked Amount	50.000	Range 88 - 110	Recovery	=	15.94%#	
46) Bromofluorobenzene	17.79	95	691257	8.01	ug/l	0.00
Spiked Amount	50.000	Range 86 - 115	Recovery	=	16.02%#	

Target Compounds

Qvalue

2) Dichlorodifluoromethane	2.61	85	360779m	8.02	ug/l	
3) Chloromethane	2.80	50	176831m	8.30	ug/l	
4) Bromomethane	3.51	94	215028	9.14	ug/l	97
5) Vinyl Chloride	3.02	62	180852	8.38	ug/l	98
6) Chloroethane	3.70	64	120212	8.84	ug/l	90
7) Trichlorofluoromethane	4.14	101	474008m	8.73	ug/l	
8) FC-113	5.25	101	627202	9.82	ug/l	98
9) Methylene Chloride	6.26	84	269383	9.59	ug/l	# 81
10) Acetone	5.33	43	50730m	9.79	ug/l	
11) Carbon Disulfide	5.60	76	414633	6.94	ug/l	98
12) MTBE	6.87	73	513844	9.31	ug/l	# 88
13) 1,1-Dichloroethene	5.16	96	256147	9.28	ug/l	# 82
14) 1,1-Dichloroethane	7.69	63	500363	9.01	ug/l	95
15) Methyl Acetate	6.09	43	121165m	9.59	ug/l	
16) trans-1,2-Dichloroethene	6.84	96	272281	8.91	ug/l	# 79
17) cis-1,2-Dichloroethene	8.86	96	277562	8.97	ug/l	89
18) Chloroform	9.46	83	619866	9.31	ug/l	95
20) 1,2-Dichloroethane	10.45	62	422773	9.44	ug/l	98
21) 2-Butanone	8.92	43	56681	8.61	ug/l	# 85
23) 1,1,1-Trichloroethane	9.76	97	498862	8.46	ug/l	98
24) Carbon Tetrachloride	10.05	117	480036	8.27	ug/l	99
25) Cyclohexane	9.85	56	396566	8.72	ug/l	86
26) Bromodichloromethane	12.37	83	485859	8.01	ug/l	100
27) 1,2-Dichloropropane	11.90	63	315854	9.01	ug/l	96
28) cis-1,3-Dichloropropene	13.10	75	365266	8.24	ug/l	96
29) Trichloroethene	11.52	130	393392	9.14	ug/l	95
30) Benzene	10.40	78	732541	8.88	ug/l	100
31) Methylcyclohexane	11.83	83	411299	8.83	ug/l	# 82
32) Dibromochloromethane	14.94	129	428335	7.74	ug/l	98
33) trans-1,3-Dichloropropene	14.02	75	299700	7.91	ug/l	98
34) 1,1,2-Trichloroethane	14.30	97	282562	9.36	ug/l	97
35) Bromoform	17.27	173	283906	7.03	ug/l	95
37) 4-Methyl-2-Pentanone	13.37	43	175978	9.24	ug/l	91
38) 2-Hexanone	14.72	43	116006	9.38	ug/l	94
39) Tetrachloroethene	14.53	166	554809	9.87	ug/l	97
40) 1,2-Dibromoethane	15.12	107	441723	8.99	ug/l	98
41) 1,1,2,2-Tetrachloroethane	18.04	83	391805	9.27	ug/l	95
43) Toluene	13.64	91	902012	9.35	ug/l	99
44) Chlorobenzene	15.91	112	721361	9.18	ug/l	98

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Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081802.D

Acq On : 18 Aug 2005 10:26 am

Sample : 010,,VSTD

Misc : VSTD010

MS Integration Params: RTEINT.P

Quant Time: Aug 18 13:58 19105

Vial: 6

Operator: DMD

Inst : MSD

Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Jul 28 11:21:59 2005

Response via : Initial Calibration

DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.10	91	1065859	8.85	ug/l	95
47) m,p-Xylene	16.28	91	1786221	18.11	ug/l	92
48) o-Xylene	16.93	91	915583	9.07	ug/l	96
49) Styrene	16.96	104	465079	8.78	ug/l #	82
50) Isopropylbenzene	17.54	105	1109840	8.89	ug/l	96
51) 1,3-Dichlorobenzene	19.60	146	707486m(m)	9.12	ug/l	
52) 1,4-Dichlorobenzene	19.74	146	762784	9.14	ug/l	94
53) 1,2-Dichlorobenzene	20.36	146	682006	9.42	ug/l	96
54) 1,2-Dibromo-3-Chloropropan	21.66	75	60735	8.18	ug/l #	78
55) 1,2,4-Trichlorobenzene	23.06	180	503013	9.90	ug/l	100

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

V081802.D 9510818.M Wed Aug 31 19:07:10 2005

RPT1

Page 2

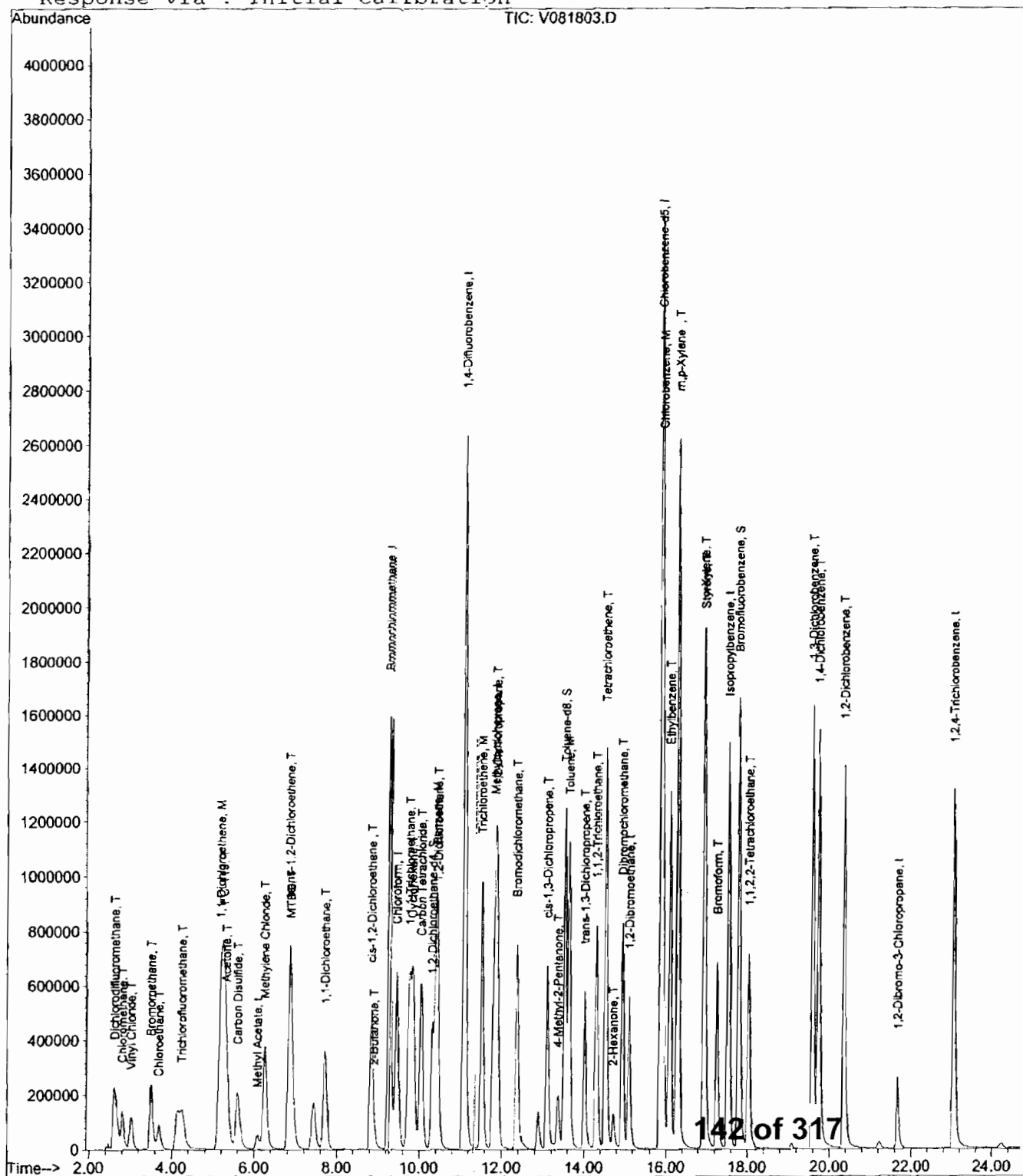
Quantitation Report

Data File : Z:\MSD\081805.B\081803.D
 Acq On : 18 Aug 2005 11:15 am
 Sample : 020,,VSTD
 Misc : VSTD020
 MS Integration Params: RTEINT.P
 Quant Time: Aug 18 13:59 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240. and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081803.D
 Acq On : 18 Aug 2005 11:15 am
 Sample : 020,,VSTD
 Misc : VSTD020
 MS Integration Params: RTEINT.P
 Quant Time: Aug 18 13:59 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Jul 28 11:21:59 2005
 Response via : Initial Calibration
 DataAcq Meth : 9510818

DMD
8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.29	49	1884024	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	5062195	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.87	117	4153906	50.00	ug/l	0.00
System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	10.32	65	871846	19.90	ug/l	0.00
Spiked Amount 50.000	Range 76	- 114	Recovery	=	39.80%#	
42) Toluene-d8	13.52	98	1971243	19.70	ug/l	-0.02
Spiked Amount 50.000	Range 88	- 110	Recovery	=	39.40%#	
46) Bromofluorobenzene	17.78	95	1483379	19.15	ug/l	0.00
Spiked Amount 50.000	Range 86	- 115	Recovery	=	38.30%#	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.61	85	714378m	17.59	ug/l	
3) Chloromethane	2.81	50	346929	18.04	ug/l	97
4) Bromomethane	3.51	94	419160	19.74	ug/l	98
5) Vinyl Chloride	3.03	62	370206	19.00	ug/l	96
6) Chloroethane	3.70	64	244506	19.92	ug/l	95
7) Trichlorofluoromethane	4.24	101	964627m	19.68	ug/l	
8) FC-113	5.26	101	1325714	23.00	ug/l	96
9) Methylene Chloride	6.26	84	560408	22.10	ug/l	# 82
10) Acetone	5.33	43	101248	21.64	ug/l	98
11) Carbon Disulfide	5.60	76	1052437	19.50	ug/l	96
12) MTBE	6.88	73	1096579	22.01	ug/l	# 90
13) 1,1-Dichloroethene	5.17	96	537462	21.56	ug/l	# 79
14) 1,1-Dichloroethane	7.71	63	1078434	21.51	ug/l	98
15) Methyl Acetate	6.08	43	257125	22.53	ug/l	# 86
16) trans-1,2-Dichloroethene	6.85	96	582227	21.10	ug/l	# 77
17) cis-1,2-Dichloroethene	8.85	96	600340	21.48	ug/l	# 83
18) Chloroform	9.46	83	1302781	21.66	ug/l	100
20) 1,2-Dichloroethane	10.45	62	888085	21.97	ug/l	100
21) 2-Butanone	8.92	43	131164	22.06	ug/l	# 84
23) 1,1,1-Trichloroethane	9.75	97	1080262	20.55	ug/l	99
24) Carbon Tetrachloride	10.04	117	1075067	20.78	ug/l	99
25) Cyclohexane	9.84	56	864949	21.34	ug/l	# 84
26) Bromodichloromethane	12.37	83	1109489	20.51	ug/l	99
27) 1,2-Dichloropropane	11.89	63	670187	21.44	ug/l	96
28) cis-1,3-Dichloropropene	13.10	75	845018	21.39	ug/l	99
29) Trichloroethene	11.52	130	832270	21.70	ug/l	97
30) Benzene	10.41	78	1549465	21.08	ug/l	100
31) Methylcyclohexane	11.83	83	905610	21.80	ug/l	# 82
32) Dibromochloromethane	14.94	129	1026631	20.82	ug/l	98
33) trans-1,3-Dichloropropene	14.01	75	713819	21.12	ug/l	100
34) 1,1,2-Trichloroethane	14.30	97	602286	22.37	ug/l	98
35) Bromoform	17.26	173	726457	20.19	ug/l	97
37) 4-Methyl-2-Pentanone	13.36	43	374529	21.92	ug/l	93
38) 2-Hexanone	14.71	43	238243	21.47	ug/l	93
39) Tetrachloroethene	14.53	166	1175299	23.30	ug/l	97
40) 1,2-Dibromoethane	15.11	107	951252	21.58	ug/l	100
41) 1,1,2,2-Tetrachloroethane	18.04	83	849803	22.41	ug/l	96
43) Toluene	13.64	91	1909208	22.96	ug/l	98
44) Chlorobenzene	15.91	112	1515318	21.50	ug/l	98

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Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\V081803.D

Vial: 6

Acq On : 18 Aug 2005 11:15 am

Operator: DMD

Sample : 020,,VSTD

Inst : MSD

Misc : VSTD020

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Aug 18 13:59 19105

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Jul 28 11:21:59 2005

Response via : Initial Calibration

DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.10	91	2274460	21.04	ug/l	97
47) m,p-Xylene	16.28	91	3809387	43.06	ug/l	95
48) o-Xylene	16.92	91	1915783	21.15	ug/l	94
49) Styrene	16.96	104	1026265	21.60	ug/l #	84
50) Isopropylbenzene	17.53	105	2430823	21.71	ug/l	97
51) 1,3-Dichlorobenzene	19.60	146	1519624	21.83	ug/l	97
52) 1,4-Dichlorobenzene	19.73	146	1613917	21.55	ug/l	96
53) 1,2-Dichlorobenzene	20.36	146	1455057	22.40	ug/l	94
54) 1,2-Dibromo-3-Chloropropan	21.65	75	156022	23.41	ug/l	78
55) 1,2,4-Trichlorobenzene	23.05	180	1173356	25.74	ug/l	99

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

V081803.D 9510818.M Wed Aug 31 19:07:24 2005

RPT1

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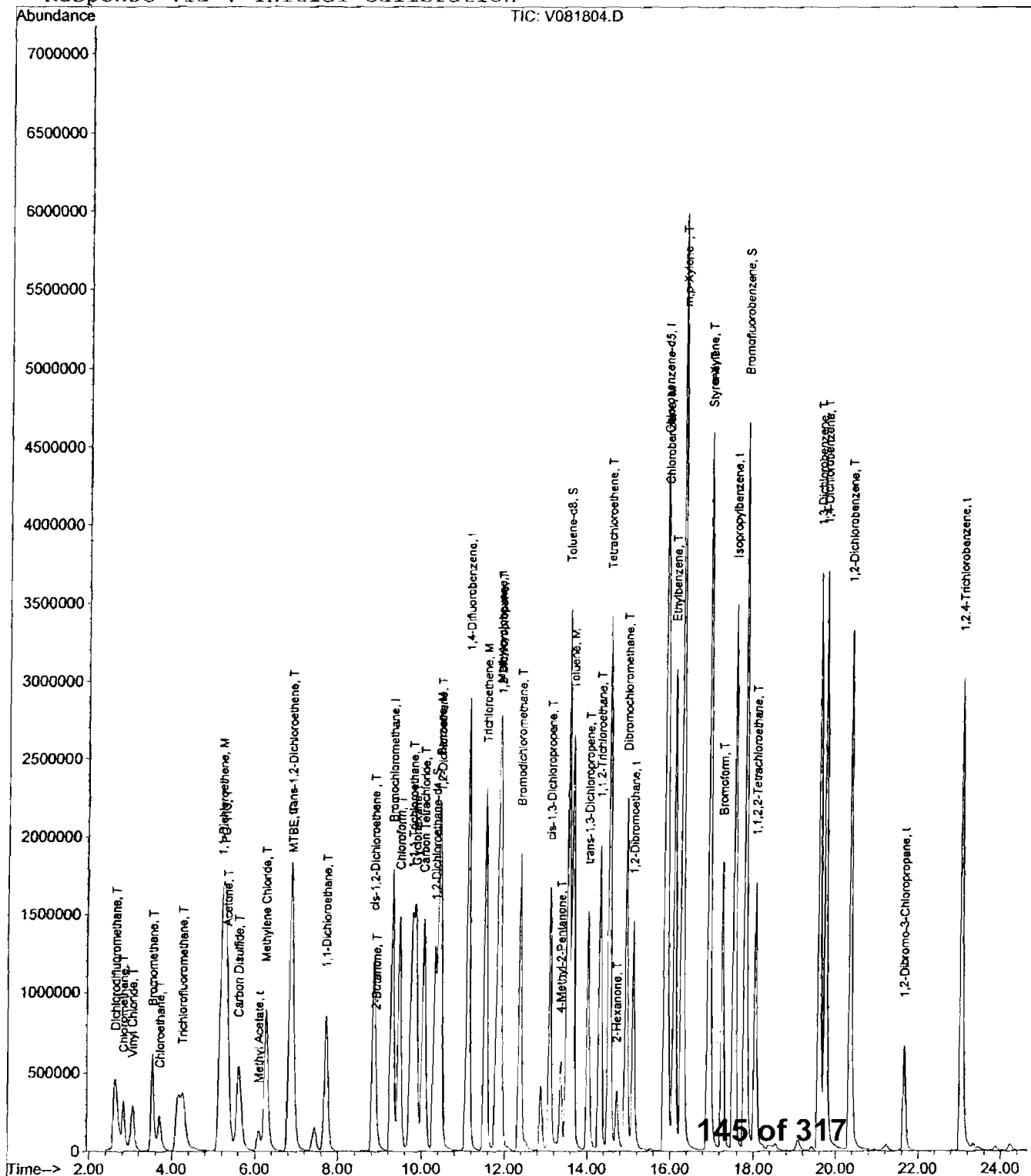
Quantitation Report

Data File : Z:\MSD\081805.B\081804.D
 Acq On : 18 Aug 2005 12:17 pm
 Sample : 050,,VSTD
 Misc : VSTD050
 MS Integration Params: RTEINT.P
 Quant Time: Aug 18 13:59 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081804.D
 Acq On : 18 Aug 2005 12:17 pm
 Sample : 050,,VSTD
 Misc : VSTD050
 MS Integration Params: RTEINT.P
 Quant Time: Aug 18 13:59 29105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Jul 28 11:21:59 2005
 Response via : Initial Calibration
 DataAcq Meth : 9510818

DMD
8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.29	49	2087089	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	5593043	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.87	117	4519278	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev (Min)
19) 1,2-Dichloroethane-d4		10.32	65	2397489	49.41	ug/l	0.00
Spiked Amount	50.000	Range 76 -	114	Recovery	=	98.82%	
42) Toluene-d8		13.53	98	5444565	50.01	ug/l	0.00
Spiked Amount	50.000	Range 88 -	110	Recovery	=	100.02%	
46) Bromofluorobenzene		17.78	95	4098536	48.64	ug/l	0.00
Spiked Amount	50.000	Range 86 -	115	Recovery	=	97.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.61	85	1851966	41.15	ug/l	97
3) Chloromethane	2.82	50	880948	41.35	ug/l	100
4) Bromomethane	3.52	94	1065263	45.30	ug/l	96
5) Vinyl Chloride	3.04	62	938542	43.49	ug/l	97
6) Chloroethane	3.71	64	641664	47.20	ug/l	93
7) Trichlorofluoromethane	4.25	101	2541290	46.81	ug/l	
8) FC-113	5.27	101	3051596	47.79	ug/l	96
9) Methylene Chloride	6.27	84	1347383	47.96	ug/l	# 83
10) Acetone	5.33	43	274198	52.89	ug/l	94
11) Carbon Disulfide	5.60	76	2896680	48.45	ug/l	100
12) MTBE	6.89	73	2765904	50.11	ug/l	# 89
13) 1,1-Dichloroethene	5.18	96	1301542	47.13	ug/l	# 83
14) 1,1-Dichloroethane	7.71	63	2509122	45.18	ug/l	98
15) Methyl Acetate	6.10	43	640931	50.70	ug/l	# 89
16) trans-1,2-Dichloroethene	6.85	96	1446558	47.32	ug/l	# 79
17) cis-1,2-Dichloroethene	8.85	96	1427702	46.12	ug/l	# 82
18) Chloroform	9.46	83	3040613	45.64	ug/l	97
20) 1,2-Dichloroethane	10.45	62	2067758	46.17	ug/l	100
21) 2-Butanone	8.91	43	353857	53.73	ug/l	91
23) 1,1,1-Trichloroethane	9.75	97	2569251	44.23	ug/l	96
24) Carbon Tetrachloride	10.05	117	2620092	45.83	ug/l	100
25) Cyclohexane	9.86	56	1981081	44.23	ug/l	87
26) Bromodichloromethane	12.37	83	2797120	46.80	ug/l	100
27) 1,2-Dichloropropane	11.89	63	1560328	45.18	ug/l	97
28) cis-1,3-Dichloropropene	13.10	75	2114177	48.43	ug/l	99
29) Trichloroethene	11.53	130	1962041	46.31	ug/l	95
30) Benzene	10.41	78	3581395	44.09	ug/l	100
31) Methylcyclohexane	11.84	83	2090089	45.54	ug/l	# 83
32) Dibromochloromethane	14.94	129	2767071	50.79	ug/l	98
33) trans-1,3-Dichloropropene	14.01	75	1857999	49.77	ug/l	100
34) 1,1,2-Trichloroethane	14.30	97	1431893	48.14	ug/l	97
35) Bromoform	17.26	173	1997444	50.24	ug/l	98
37) 4-Methyl-2-Pentanone	13.36	43	1025238	55.15	ug/l	91
38) 2-Hexanone	14.72	43	699837	57.97	ug/l	89
39) Tetrachloroethene	14.53	166	2732575	49.80	ug/l	97
40) 1,2-Dibromoethane	15.11	107	2410966	50.28	ug/l	99
41) 1,1,2,2-Tetrachloroethane	18.03	83	2046650	49.60	ug/l	98
43) Toluene	13.64	91	4431861	47.96	ug/l	98
44) Chlorobenzene	15.92	112	3529365	46.02	ug/l	100

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Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081804.D

Vial: 6

Acq On : 18 Aug 2005 12:17 pm

Operator: DMD

Sample : 050,,VSTD

Inst : MSD

Misc : VSTD050

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Aug 18 13:59 19105

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Jul 28 11:21:59 2005

Response via : Initial Calibration

DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.09	91	5387197	45.81	ug/l	95
47) m,p-Xylene	16.29	91	8920556	92.69	ug/l	95
48) o-Xylene	16.93	91	4563357	46.31	ug/l	96
49) Styrene	16.96	104	2434224	47.09	ug/l #	80
50) Isopropylbenzene	17.54	105	5708222	46.86	ug/l	97
51) 1,3-Dichlorobenzene	19.59	146	3632408	47.95 ¹	ug/l	95
52) 1,4-Dichlorobenzene	19.74	146	3931491	48.24	ug/l	94
53) 1,2-Dichlorobenzene	20.36	146	3403044	48.14	ug/l	93
54) 1,2-Dibromo-3-Chloropropan	21.66	75	405746	55.96	ug/l	80
55) 1,2,4-Trichlorobenzene	23.05	180	2660790	53.66	ug/l	99

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

V081804.D 9510818.M

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RPT1

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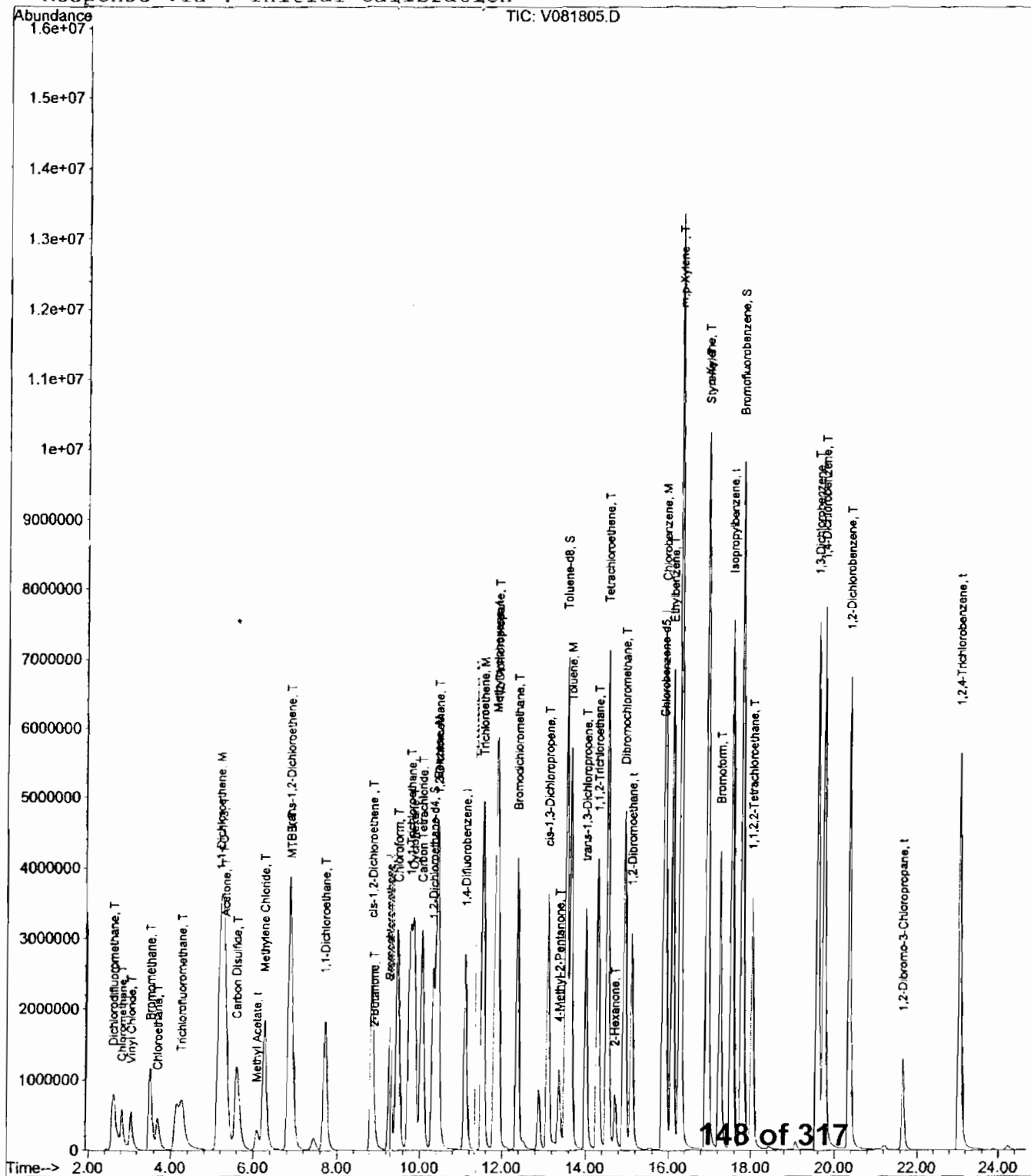
Quantitation Report

Data File : Z:\MSD\081805.B\081805.D
Acq On : 18 Aug 2005 1:26 pm
Sample : 100,,VSTD
Misc : VSTD100
MS Integration Params: RTEINT.P
Quant Time: Aug 18 14:00 19105

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Initial Calibration



Data File : Z:\MSD\081805.B\V081805.D
 Acq On : 18 Aug 2005 1:26 pm
 Sample : 100,,VSTD
 Misc : VSTD100
 MS Integration Params: RTEINT.P
 Quant Time: Aug 18 14:00 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Jul 28 11:21:59 2005
 Response via : Initial Calibration
 DataAcq Meth : 9510818

DMD
8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.29	49	2035568	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.11	114	5386075	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.87	117	4598787	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	4829125	102.04	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	204.08%#
42) Toluene-d8	13.54	98	11161907	100.75	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	201.50%#
46) Bromofluorobenzene	17.78	95	8667108	101.07	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	202.14%#

Target Compounds

Qvalue

2) Dichlorodifluoromethane	2.61	85	3389775	77.23	ug/l	98
3) Chloromethane	2.83	50	1730356	83.28	ug/l	99
4) Bromomethane	3.52	94	2088027	91.03	ug/l	96
5) Vinyl Chloride	3.06	62	1862992	88.50	ug/l	97
6) Chloroethane	3.69	64	1259565	95.00	ug/l	94
7) Trichlorofluoromethane	4.26	101	5132470m	96.93	ug/l	
8) FC-113	5.26	101	6494706	104.29	ug/l	97
9) Methylene Chloride	6.27	84	2835139	103.48	ug/l	# 83
10) Acetone	5.32	43	543869	107.57	ug/l	98
11) Carbon Disulfide	5.60	76	6828244	117.09	ug/l	99
12) MTBE	6.89	73	5931177	110.17	ug/l	# 88
13) 1,1-Dichloroethene	5.18	96	2855890	106.04	ug/l	# 82
14) 1,1-Dichloroethane	7.71	63	5431559	100.28	ug/l	99
15) Methyl Acetate	6.08	43	1371962	111.27	ug/l	# 90
16) trans-1,2-Dichloroethene	6.85	96	3141330	105.37	ug/l	# 82
17) cis-1,2-Dichloroethene	8.86	96	3097972	102.61	ug/l	# 85
18) Chloroform	9.47	83	6529989	100.49	ug/l	99
20) 1,2-Dichloroethane	10.45	62	4353972	99.68	ug/l	98
21) 2-Butanone	8.92	43	732401	114.01	ug/l	91
23) 1,1,1-Trichloroethane	9.76	97	5562605	99.44	ug/l	98
24) Carbon Tetrachloride	10.05	117	5667846	102.94	ug/l	98
25) Cyclohexane	9.85	56	4250048	98.53	ug/l	86
26) Bromodichloromethane	12.37	83	6218780	108.06	ug/l	99
27) 1,2-Dichloropropane	11.89	63	3299096	99.20	ug/l	100
28) cis-1,3-Dichloropropene	13.11	75	4648360	110.57	ug/l	96
29) Trichloroethene	11.53	130	4184941	102.57	ug/l	97
30) Benzene	10.41	78	7631427	97.56	ug/l	100
31) Methylcyclohexane	11.84	83	4447807	100.63	ug/l	# 83
32) Dibromochloromethane	14.94	129	5997454	114.31	ug/l	98
33) trans-1,3-Dichloropropene	14.01	75	4133007	114.96	ug/l	98
34) 1,1,2-Trichloroethane	14.30	97	3032792	105.88	ug/l	98
35) Bromoform	17.26	173	4657079	121.65	ug/l	95
37) 4-Methyl-2-Pentanone	13.37	43	2074572	109.67	ug/l	94
38) 2-Hexanone	14.71	43	1372530	111.72	ug/l	87
39) Tetrachloroethene	14.53	166	5656368	101.30	ug/l	98
40) 1,2-Dibromoethane	15.12	107	5143456	105.41	ug/l	99
41) 1,1,2,2-Tetrachloroethane	18.04	83	4442325	105.79	ug/l	96
43) Toluene	13.64	91	9486413	98.99	ug/l	96
44) Chlorobenzene	15.92	112	7739114	99.17	ug/l	99

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Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\V081805.D

Vial: 6

Acq On : 18 Aug 2005 1:26 pm

Operator: DMD

Sample : 100,,VSTD

Inst : MSD

Misc : VSTD100

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Aug 18 14:00 19105

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Jul 28 11:21:59 2005

Response via : Initial Calibration

DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.09	91	11959792	99.95	ug/l	96
47) m,p-Xylene	16.29	91	19834886	202.52	ug/l	94
48) o-Xylene	16.93	91	9987159	99.59	ug/l	95
49) Styrene	16.96	104	5425861	103.14	ug/l #	81
50) Isopropylbenzene	17.54	105	12570195	101.40	ug/l	97
51) 1,3-Dichlorobenzene	19.60	146	7494011	97.22	ug/l	96
52) 1,4-Dichlorobenzene	19.74	146	8039326	96.95	ug/l	95
53) 1,2-Dichlorobenzene	20.36	146	6906885	96.02	ug/l	94
54) 1,2-Dibromo-3-Chloropropan	21.66	75	811545	109.99	ug/l	80
55) 1,2,4-Trichlorobenzene	23.06	180	4885177	96.82	ug/l	99

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

V081805.D 9510818.M

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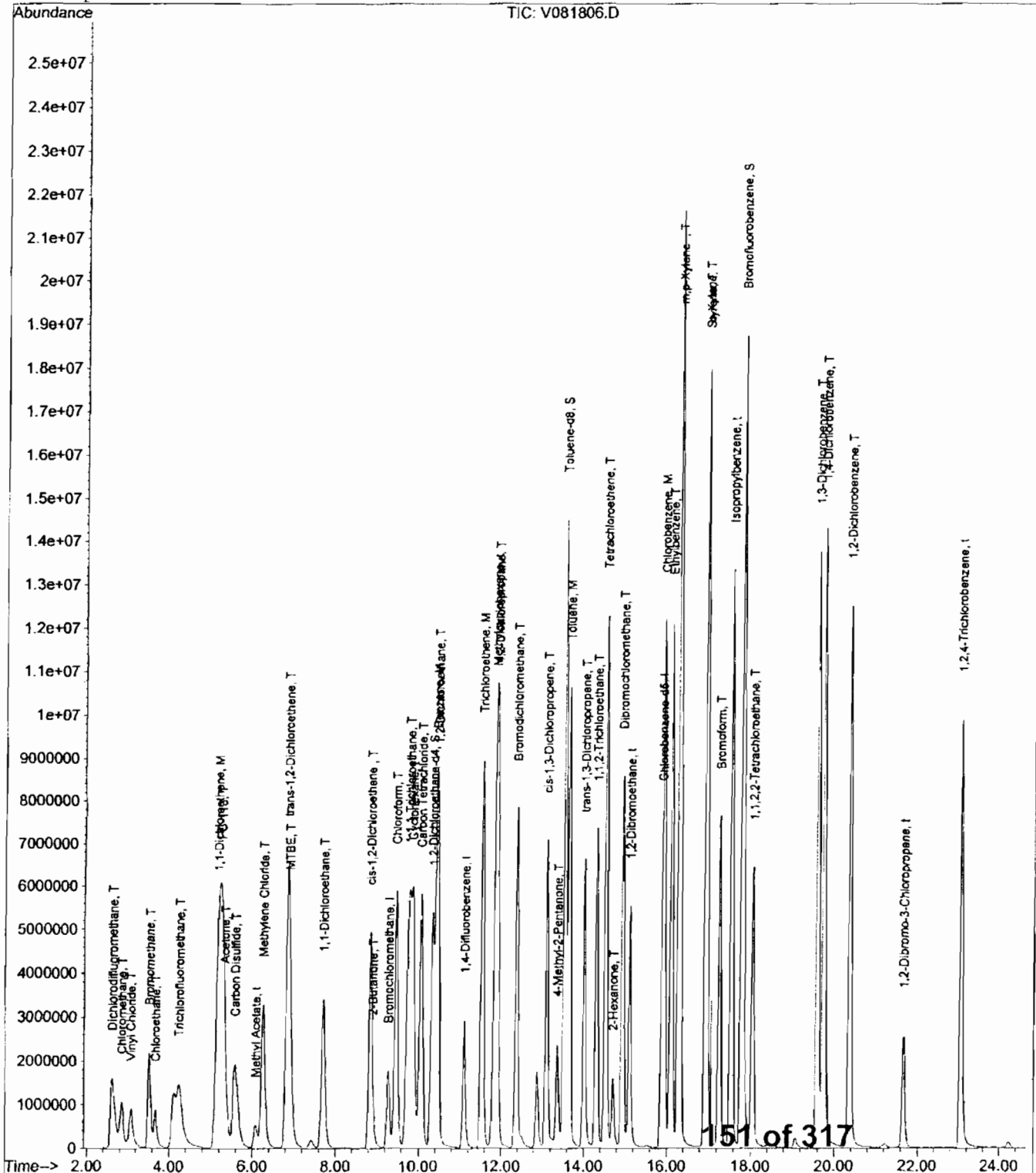
Quantitation Report

Data File : Z:\MSD\081805.B\V081806.D
Acq On : 18 Aug 2005 2:08 pm
Sample : 200,,VSTD
Misc : VSTD200
MS Integration Params: RTEINT.P
Quant Time: Aug 18 14:35 19105

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081806.D
 Acq On : 18 Aug 2005 2:08 pm
 Sample : 200,,VSTD
 Misc : VSTD200
 MS Integration Params: RTEINT.P
 Quant Time: Aug 18 14:35 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Jul 28 11:21:59 2005
 Response via : Initial Calibration
 DataAcq Meth : 9510818

DMD
 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	2090139	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	5554919	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.87	117	4470200	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	10049945	206.81	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	413.62%#
42) Toluene-d8	13.53	98	23027004	213.83	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	427.66%#
46) Bromofluorobenzene	17.79	95	16437471	197.20	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	394.40%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.61	85	7133176	158.28	ug/l	99
3) Chloromethane	2.84	50	3486040	163.40	ug/l	100
4) Bromomethane	3.52	94	4086237	173.50	ug/l	99
5) Vinyl Chloride	3.07	62	3773030	174.56	ug/l	100
6) Chloroethane	3.68	64	2233421	164.05	ug/l	97
7) Trichlorofluoromethane	4.24	101	10689436	196.61	ug/l	
8) FC-113	5.25	101	11085610	173.36	ug/l	97
9) Methylene Chloride	6.25	84	5061360	179.91	ug/l	# 80
10) Acetone	5.34	43	1040588	200.44	ug/l	99
11) Carbon Disulfide	5.58	76	11911071	198.93	ug/l	99
12) MTBE	6.89	73	10794819	195.28	ug/l	# 91
13) 1,1-Dichloroethene	5.15	96	4953802	179.13	ug/l	# 80
14) 1,1-Dichloroethane	7.69	63	10295195	185.12	ug/l	99
15) Methyl Acetate	6.08	43	2514321	198.59	ug/l	90
16) trans-1,2-Dichloroethene	6.83	96	5602443	183.01	ug/l	# 77
17) cis-1,2-Dichloroethene	8.84	96	5820126	187.73	ug/l	# 81
18) Chloroform	9.46	83	12341642	184.97	ug/l	99
20) 1,2-Dichloroethane	10.44	62	8244143	183.81	ug/l	100
21) 2-Butanone	8.91	43	1540828	233.60	ug/l	# 90
23) 1,1,1-Trichloroethane	9.75	97	10471503	181.51	ug/l	98
24) Carbon Tetrachloride	10.04	117	10579190	186.31	ug/l	99
25) Cyclohexane	9.83	56	7710690	173.33	ug/l	87
26) Bromodichloromethane	12.37	83	11970407	201.67	ug/l	99
27) 1,2-Dichloropropane	11.89	63	6274921	182.94	ug/l	100
28) cis-1,3-Dichloropropene	13.10	75	9127068	210.50	ug/l	97
29) Trichloroethene	11.52	130	7708936	183.20	ug/l	95
30) Benzene	10.40	78	14269066	176.87	ug/l	100
31) Methylcyclohexane	11.83	83	8120915	178.14	ug/l	# 83
32) Dibromochloromethane	14.94	129	10836848	200.26	ug/l	99
33) trans-1,3-Dichloropropene	14.00	75	8056582	217.27	ug/l	100
34) 1,1,2-Trichloroethane	14.30	97	5462626	184.91	ug/l	97
35) Bromoform	17.26	173	8552714	216.61	ug/l	95
37) 4-Methyl-2-Pentanone	13.36	43	4301413	233.92	ug/l	93
38) 2-Hexanone	14.71	43	2759383	231.07	ug/l	89
39) Tetrachloroethene	14.53	166	9711550	178.93	ug/l	97
40) 1,2-Dibromoethane	15.11	107	9157829	193.09	ug/l	99
41) 1,1,2,2-Tetrachloroethane	18.03	83	8047471	197.16	ug/l	97
43) Toluene	13.64	91	17780413	199.47	ug/l	100
44) Chlorobenzene	15.91	112	13738939	181.11	ug/l	100

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Data File : Z:\MSD\081805.B\V081806.D

Vial: 6

Acq On : 18 Aug 2005 2:08 pm

Operator: DMD

Sample : 200,,VSTD

Inst : MSD

Misc : VSTD200

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Aug 18 14:35 19105

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Jul 28 11:21:59 2005

Response via : Initial Calibration

DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.09	91	21396069	183.95	ug/l	96
47) m,p-Xylene	16.29	91	32057454	336.74	ug/l	90
48) o-Xylene	16.93	91	17657311	181.14	ug/l	95
49) Styrene	16.96	104	9702485	189.74	ug/l #	79
50) Isopropylbenzene	17.54	105	22067703	183.13	ug/l	97
51) 1,3-Dichlorobenzene	19.60	146	13777064	183.87	ug/l	96
52) 1,4-Dichlorobenzene	19.74	146	14770797	183.24	ug/l	94
53) 1,2-Dichlorobenzene	20.36	146	12787289	182.89	ug/l	95
54) 1,2-Dibromo-3-Chloropropan	21.65	75	1588684	221.51	ug/l	81
55) 1,2,4-Trichlorobenzene	23.05	180	8485793	173.02	ug/l	99

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

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RPT1

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Continuing Calibration Report MSD

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Wed Aug 31 18:40:30 2005
 Response via : Continuing Calibration

Continuing Calibration File: V081808.D

Min. RRF : 0.000 Min. Rel. Area : 50%
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
1 I	Bromochloromethane	1.000	1.000	0.0	88
2 T	Dichlorodifluoromethane	0.877	0.990	-12.9	98
3 T	Chloromethane	0.430	0.492	-14.5	103
4 T	Bromomethane	0.517	0.614	-18.8	106
5 T	Vinyl Chloride	0.457	0.525	-15.0	103
6 T	Chloroethane	0.299	0.348	-16.4	100
7 T	Trichlorofluoromethane	1.235	1.358	-10.0	98
8 T	FC-113	1.529	1.714	-12.1	103
9 T	Methylene Chloride	0.667	0.756	-13.3	103
10 T	Acetone	0.129	0.141	-9.3	95
11 T	Carbon Disulfide	1.376	1.728	-25.6#	110
12 T	MTBE	1.352	1.590	-17.6	106
13 M	1,1-Dichloroethene	0.649	0.753	-16.0	106
14 T	1,1-Dichloroethane	1.280	1.537	-20.1	113
15 t	Methyl Acetate	0.315	0.362	-14.7	104
16 T	trans-1,2-Dichloroethene	0.712	0.840	-18.0	107
17 T	cis-1,2-Dichloroethene	0.721	0.858	-19.1	110
18 T	Chloroform	1.550	1.826	-17.8	110
19 S	1,2-Dichloroethane-d4	1.133	1.093	3.5	84
20 T	1,2-Dichloroethane	1.048	1.240	-18.4	110
21 T	2-Butanone	0.169	0.198	-17.1	103
22 I	1,4-Difluorobenzene	1.000	1.000	0.0	87
23 T	1,1,1-Trichloroethane	0.484	0.591	-22.1	111
24 T	Carbon Tetrachloride	0.485	0.584	-20.5	108
25 t	Cyclohexane	0.374	0.452	-20.8	111
26 T	Bromodichloromethane	0.518	0.649	-25.1#	112
27 T	1,2-Dichloropropane	0.295	0.359	-21.6	112
28 T	cis-1,3-Dichloropropene	0.392	0.487	-24.3	112
29 M	Trichloroethene	0.369	0.442	-19.9	109
30 M	Benzene	0.680	0.817	-20.1	111
31 t	Methylcyclohexane	0.392	0.472	-20.3	109
32 T	Dibromochloromethane	0.485	0.592	-22.2	104
33 T	trans-1,3-Dichloropropene	0.339	0.409	-20.7	107
34 T	1,1,2-Trichloroethane	0.266	0.312	-17.3	106
35 T	Bromoform	0.357	0.453	-27.1#	110
36 I	Chlorobenzene-d5	1.000	1.000	0.0	86
37 T	4-Methyl-2-Pentanone	0.222	0.252	-13.5	96
38 T	2-Hexanone	0.145	0.169	-16.5	94
39 T	Tetrachloroethene	0.614	0.726	-18.3	104
40 t	1,2-Dibromoethane	0.531	0.643	-21.0	104
41 T	1,1,2,2-Tetrachloroethane	0.464	0.568	-22.5	108
42 S	Toluene-d8	1.170	1.132	3.3	81
43 M	Toluene	1.026	1.212	-18.2	107
44 M	Chlorobenzene	0.816	0.995	-21.9	110
45 T	Ethylbenzene	1.242	1.524	-22.7	110
46 S	Bromofluorobenzene	0.882	0.885	-0.4	84
47 T	m,p-Xylene	1.014	1.266	-24.8	111
48 T	o-Xylene	1.045	1.278	-22.3	109
49 T	Styrene	0.558	0.688	-23.2	110
50 t	Isopropylbenzene	1.305	1.604	-22.9	110
51 T	1,3-Dichlorobenzene	0.814	1.003	-23.2	108
52 T	1,4-Dichlorobenzene	0.873	1.077	-23.4	107

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Continuing Calibration Report MSD

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Wed Aug 31 18:40:30 2005
Response via : Continuing Calibration

Continuing Calibration File: V081808.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev Area%
53 T	1,2-Dichlorobenzene	0.766	0.954	-24.5 109
54 t	1,2-Dibromo-3-Chloropropane	0.085	0.116	-35.6# 111
55 t	1,2,4-Trichlorobenzene	0.569	0.742	-30.4# 109

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(#) = Out of Range SPCC's out = 0 CCC's out = 0
V081808.D 9510818.M Wed Aug 31 18:40:33 2005 RPT1

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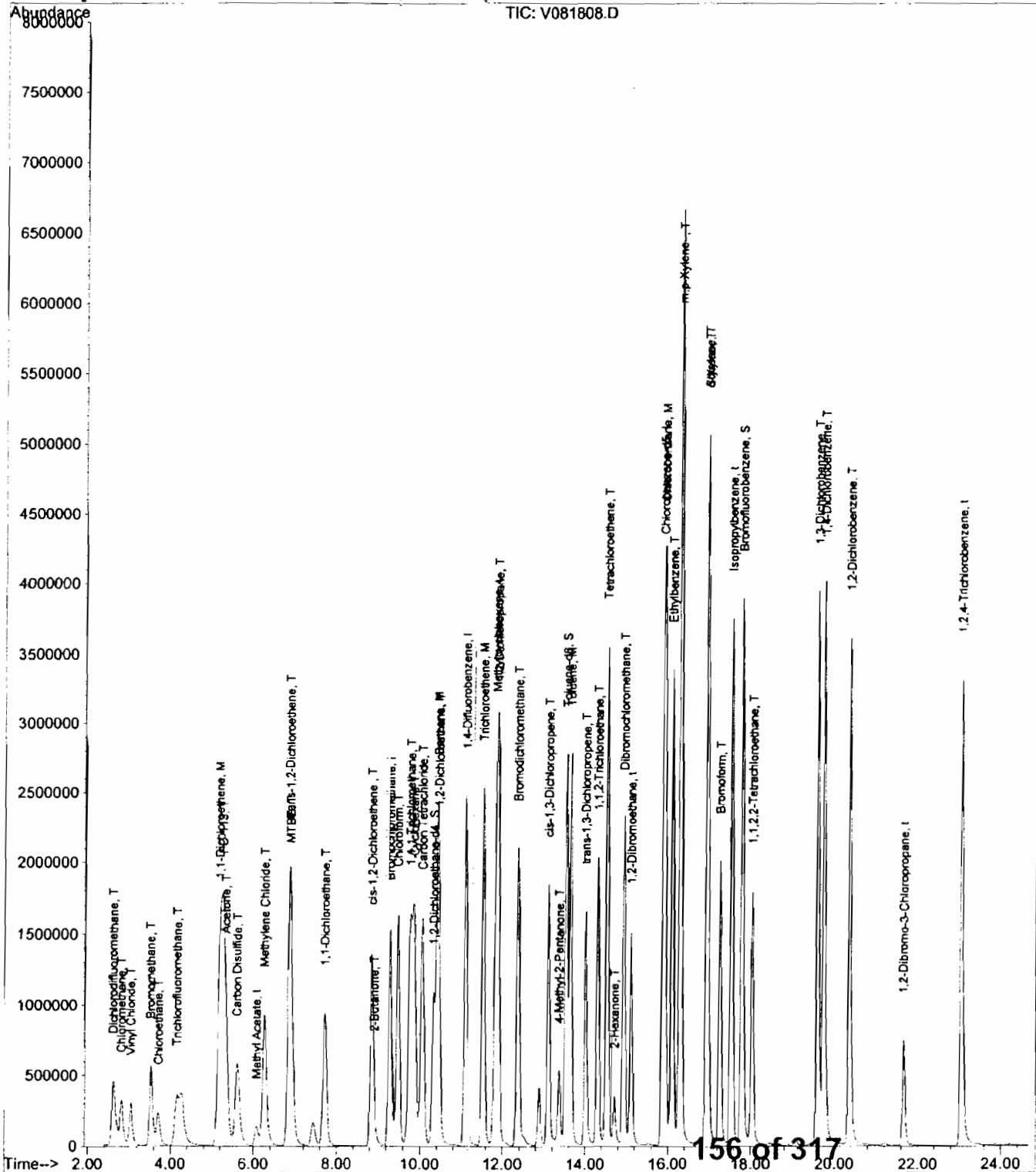
Quantitation Report

Data File : Z:\MSD\081805.3\V081808.D
 Acq On : 18 Aug 2005 3:36 pm
 Sample : 050,,VSTD
 Misc : VSTD050
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:39 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.REC

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Initial Calibration

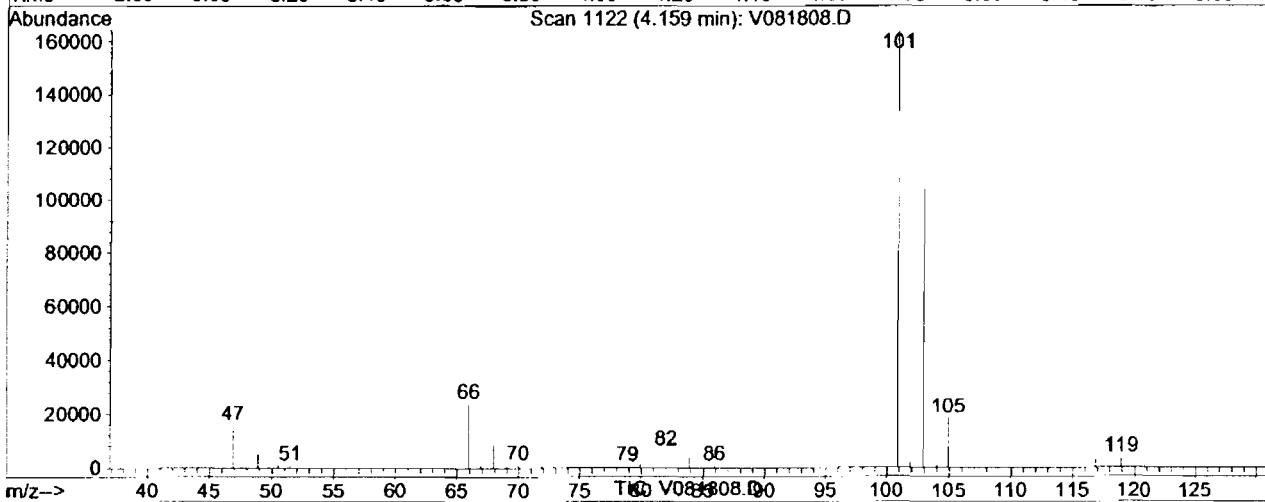
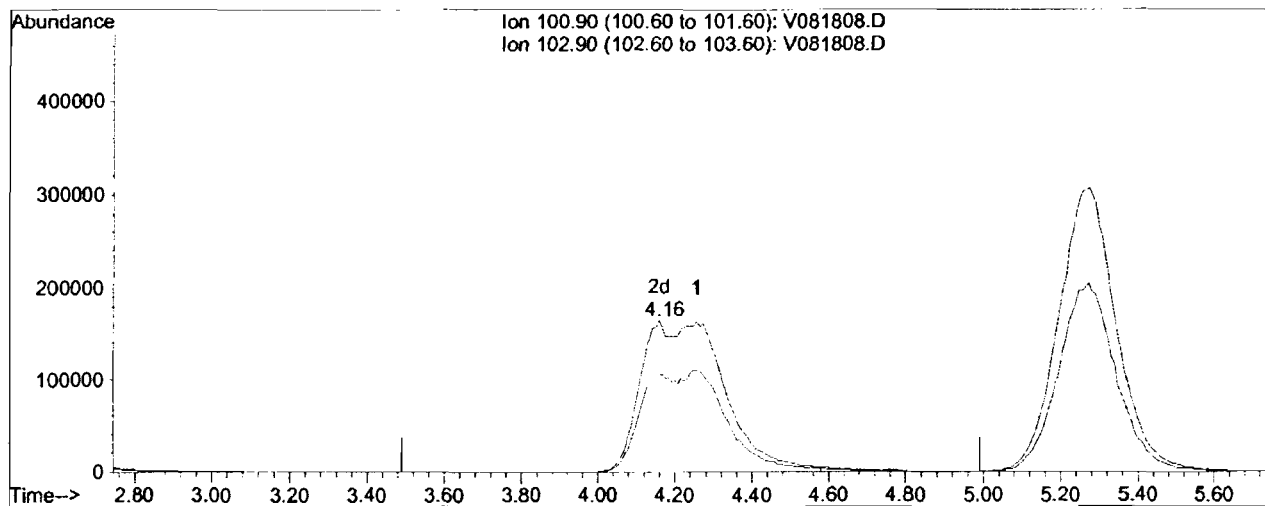


Quantitation Report

Data File : Z:\MSD\081805.B\V081808.D
 Acq On : 18 Aug 2005 3:36 pm
 Sample : 050,,VSTD
 Misc : VSTD050
 Quant Time: Aug 31 18:39 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.16min 55.02ug/l m

response 2496930

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	63.63
0.00	0.00	0.00
0.00	0.00	0.00

Data File : Z:\MSD\081805.B\V081808.D
 Acq On : 18 Aug 2005 3:36 pm
 Sample : 050,,VSTD
 Misc : VSTD050
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:39 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Initial Calibration
 DataAcq Meth : 9510818

DMD
8/31/05

Internal Standards	R.T.	Q Ion	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.28	49	1838069	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4848973	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.87	117	3898336	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	2008099	48.23	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	96.46%
42) Toluene-d8	13.53	98	4414061	48.37	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	96.74%
46) Bromofluorobenzene	17.78	95	3449220	50.18	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	100.36%

Target Compounds

Target Compounds	R.T.	Q Ion	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.61	85	1820542	56.46	ug/l	97
3) Chloromethane	2.82	50	904262	57.25	ug/l	99
4) Bromomethane	3.52	94	1127895	59.38	ug/l	97
5) Vinyl Chloride	3.04	62	964942	57.48	ug/l	98
6) Chloroethane	3.71	64	640437	58.21	ug/l	94
7) Trichlorofluoromethane	4.16	101	2496930	55.02	ug/l	
8) FC-113	5.27	101	3150548	56.05	ug/l	96
9) Methylene Chloride	6.27	84	1390019	56.66	ug/l	# 80
10) Acetone	5.33	43	259401	54.67	ug/l	96
11) Carbon Disulfide	5.60	76	3176474	62.80	ug/l	98
12) MTBE	6.88	73	2923418	58.82	ug/l	# 88
13) 1,1-Dichloroethene	5.17	96	1383766	58.01	ug/l	# 80
14) 1,1-Dichloroethane	7.71	63	2824541	60.05	ug/l	100
15) Methyl Acetate	6.09	43	664520	57.34	ug/l	# 90
16) trans-1,2-Dichloroethene	6.85	96	1544362	59.01	ug/l	# 81
17) cis-1,2-Dichloroethene	8.85	96	1577379	59.55	ug/l	# 80
18) Chloroform	9.46	83	3356182	58.89	ug/l	97
20) 1,2-Dichloroethane	10.45	62	2279057	59.18	ug/l	99
21) 2-Butanone	8.92	43	363136	58.55	ug/l	# 90
23) 1,1,1-Trichloroethane	9.75	97	2864668	61.04	ug/l	97
24) Carbon Tetrachloride	10.05	117	2831867	60.23	ug/l	100
25) Cyclohexane	9.84	56	2193257	60.40	ug/l	86
26) Bromodichloromethane	12.37	83	3144843	62.56	ug/l	100
27) 1,2-Dichloropropane	11.88	63	1741870	60.82	ug/l	99
28) cis-1,3-Dichloropropene	13.10	75	2362044	62.16	ug/l	97
29) Trichloroethene	11.52	130	2144045	59.96	ug/l	95
30) Benzene	10.41	78	3961063	60.05	ug/l	100
31) Methylcyclohexane	11.83	83	2287451	60.13	ug/l	# 82
32) Dibromochloromethane	14.93	129	2872434	61.11	ug/l	98
33) trans-1,3-Dichloropropene	14.00	75	1984356	60.36	ug/l	99
34) 1,1,2-Trichloroethane	14.30	97	1512108	58.63	ug/l	97
35) Bromoform	17.26	173	2197381	63.54	ug/l	95
37) 4-Methyl-2-Pentanone	13.36	43	980670	56.74	ug/l	91
38) 2-Hexanone	14.71	43	660320	58.24	ug/l	89
39) Tetrachloroethene	14.53	166	2829766	59.13	ug/l	99
40) 1,2-Dibromoethane	15.11	107	2505122	60.52	ug/l	100
41) 1,1,2,2-Tetrachloroethane	18.04	83	2215954	61.24	ug/l	97
43) Toluene	13.63	91	4725541	59.08	ug/l	98
44) Chlorobenzene	15.91	112	3877281	59.23	ug/l	97

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

V081808.D 9510818.M

Wed Aug 31 18:45:20 2005

RPT1

Page 1

Data File : Z:\MSD\081805.B\081808.D
Acq On : 18 Aug 2005 3:36 pm
Sample : 050,,VSTD
Misc : VSTD050
MS Integration Params: RTEINT.P
Quant Time: Aug 31 18:39 19105

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.REC

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Initial Calibration
DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.09	91	5939747	61.35	ug/l	97
47) m,p-Xylene	16.28	91	9867872	124.76	ug/l	94
48) o-Xylene	16.93	91	4982616	61.16	ug/l	94
49) Styrene	16.95	104	2680852	61.60	ug/l #	79
50) Isopropylbenzene	17.53	105	6251753	61.44	ug/l	98
51) 1,3-Dichlorobenzene	19.59	146	3908300	61.62	ug/l	95
52) 1,4-Dichlorobenzene	19.74	146	4198069	61.68	ug/l	93
53) 1,2-Dichlorobenzene	20.36	146	3717639	62.23	ug/l	96
54) 1,2-Dibromo-3-Chloropropan	21.65	75	450790	67.81	ug/l	79
55) 1,2,4-Trichlorobenzene	23.05	180	2890828	65.19	ug/l	100

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Continuing Calibration Report MSD

Method : Z:\MSD\081805.E\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Wed Aug 31 18:33:16 2005
 Response via : Continuing Calibration

Continuing Calibration File: V081902.D

Min. RRF : 0.000 Min. Rel. Area : 50%
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
1 I	Bromochloromethane	1.000	1.000	0.0	87
2 T	Dichlorodifluoromethane	0.877	0.984	-12.2	96
3 T	Chloromethane	0.430	0.484	-12.6	100
4 T	Bromomethane	0.517	0.634	-22.7	108
5 T	Vinyl Chloride	0.457	0.525	-15.0	101
6 T	Chloroethane	0.299	0.358	-19.6	101
7 T	Trichlorofluoromethane	1.235	1.450	-17.5	103
8 T	FC-113	1.529	1.608	-5.1	96
9 T	Methylene Chloride	0.667	0.708	-6.1	95
10 T	Acetone	0.129	0.144	-11.7	95
11 T	Carbon Disulfide	1.376	1.502	-9.2	94
12 T	MTBE	1.352	1.357	-0.4	89
13 M	1,1-Dichloroethene	0.649	0.678	-4.5	94
14 T	1,1-Dichloroethane	1.280	1.326	-3.6	96
15 t	Methyl Acetate	0.315	0.320	-1.4	90
16 T	trans-1,2-Dichloroethene	0.712	0.729	-2.4	91
17 T	cis-1,2-Dichloroethene	0.721	0.754	-4.6	96
18 T	Chloroform	1.550	1.623	-4.7	97
19 S	1,2-Dichloroethane-d4	1.133	1.123	0.9	85
20 T	1,2-Dichloroethane	1.048	1.092	-4.3	96
21 T	2-Butanone	0.169	0.187	-10.8	96
22 I	1,4-Difluorobenzene	1.000	1.000	0.0	87
23 T	1,1,1-Trichloroethane	0.484	0.506	-4.6	96
24 T	Carbon Tetrachloride	0.485	0.510	-5.3	95
25 t	Cyclohexane	0.374	0.395	-5.5	97
26 T	Bromodichloromethane	0.518	0.557	-7.4	97
27 T	1,2-Dichloropropane	0.295	0.310	-4.8	96
28 T	cis-1,3-Dichloropropene	0.392	0.418	-6.6	96
29 M	Trichloroethene	0.369	0.386	-4.6	95
30 M	Benzene	0.680	0.702	-3.3	95
31 t	Methylcyclohexane	0.392	0.409	-4.3	95
32 T	Dibromochloromethane	0.485	0.538	-11.0	94
33 T	trans-1,3-Dichloropropene	0.339	0.359	-5.9	94
34 T	1,1,2-Trichloroethane	0.266	0.282	-6.1	96
35 T	Bromoform	0.357	0.391	-9.6	95
36 I	Chlorobenzene-d5	1.000	1.000	0.0	88
37 T	4-Methyl-2-Pentanone	0.222	0.249	-12.5	97
38 T	2-Hexanone	0.145	0.165	-13.5	94
39 T	Tetrachloroethene	0.614	0.654	-6.6	95
40 t	1,2-Dibromoethane	0.531	0.574	-8.1	95
41 T	1,1,2,2-Tetrachloroethane	0.464	0.490*	-5.7	95
42 S	Toluene-d8	1.170	1.175	-0.4	86
43 M	Toluene	1.026	1.081	-5.4	97
44 M	Chlorobenzene	0.816	0.852	-4.3	96
45 T	Ethylbenzene	1.242	1.294	-4.2	95
46 S	Bromofluorobenzene	0.882	0.879	0.3	85
47 T	m,p-Xylene	1.014	1.082	-6.6	96
48 T	o-Xylene	1.045	1.090	-4.3	95
49 T	Styrene	0.558	0.592	-6.0	97
50 t	Isopropylbenzene	1.305	1.366	-4.6	95
51 T	1,3-Dichlorobenzene	0.814	0.869	-6.8	95
52 T	1,4-Dichlorobenzene	0.873	0.941	-7.8	95

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(#) = Out of Range *does not meet method requirements and 8/31/05
 V081902.D 9510818.M Wed Aug 31 18:33:20 2005 RPT1

Continuing Calibration Report MSD

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Wed Aug 31 18:33:16 2005
Response via : Continuing Calibration

Continuing Calibration File: V081902.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev Area%	
53 T	1,2-Dichlorobenzene	0.766	0.822	-7.3	96
54 t	1,2-Dibromo-3-Chloropropane	0.085	0.094	-10.4	92
55 t	1,2,4-Trichlorobenzene	0.569	0.635	-11.7	95

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(#) = Out of Range SPCC's out = 0 CCC's out = 0
V081902.D 9510818.M Wed Aug 31 18:33:20 2005 RPT1

Page 2

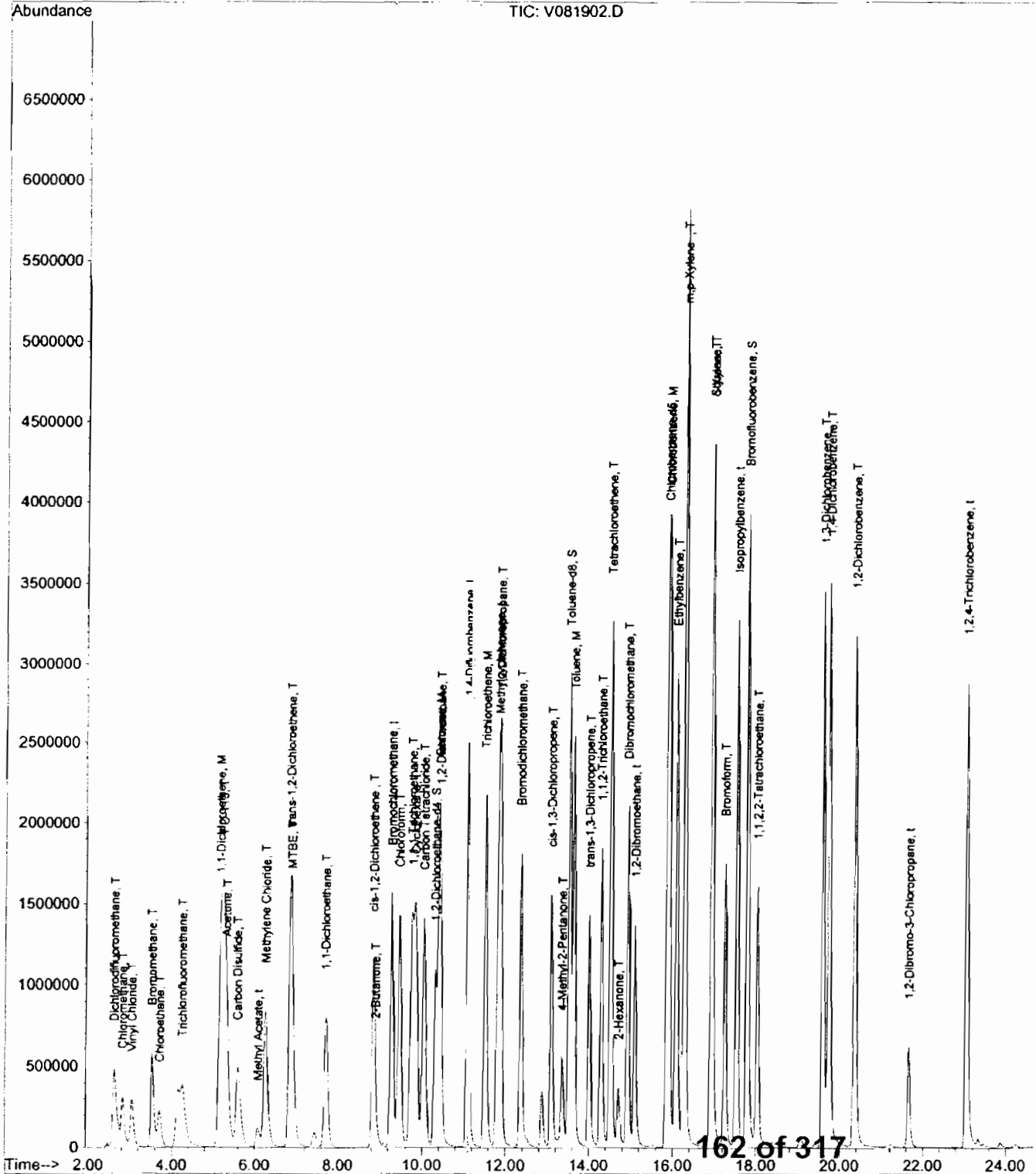
Quantitation Report

Data File : Z:\MSD\081905.B\081902.D
 Acq On : 19 Aug 2005 10:14 am
 Sample : 050,,VSTD
 Misc : VSTD050
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 11:47 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081905.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Initial Calibration

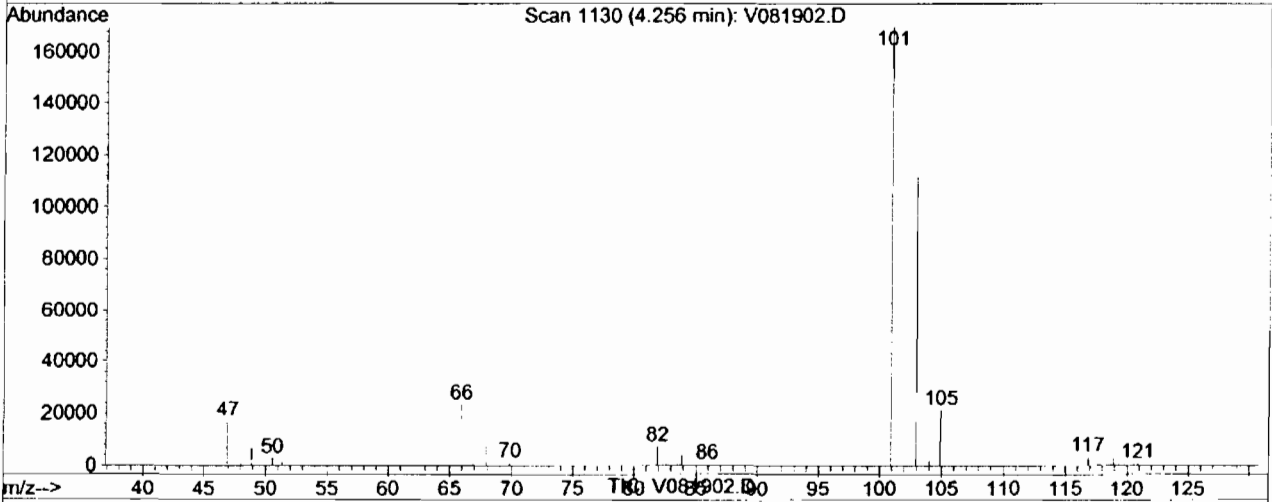
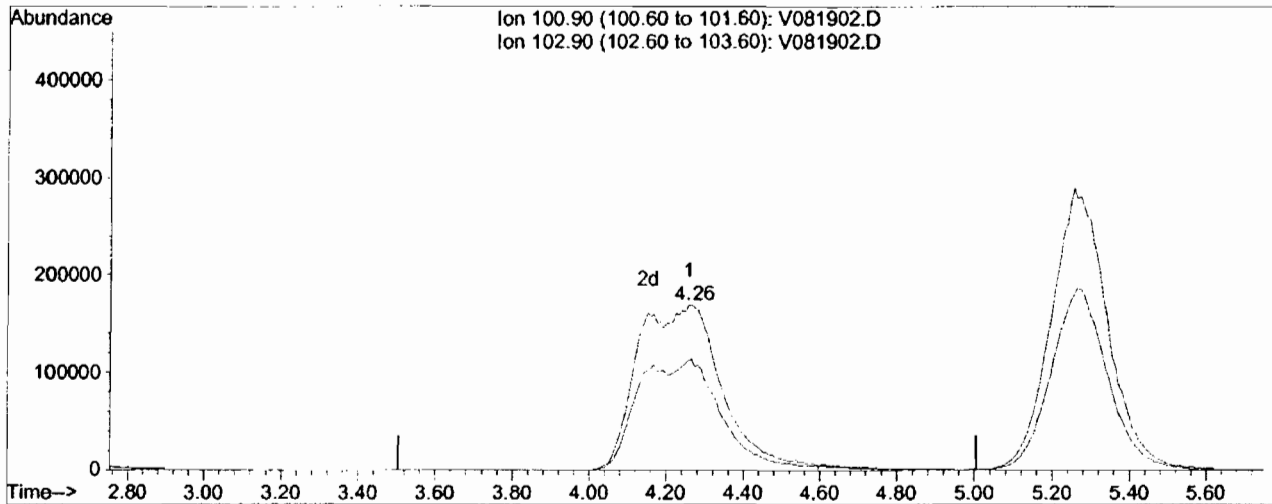


Quantitation Report

Data File : Z:\MSD\081905.B\V081902.D
 Acq On : 19 Aug 2005 10:14 am
 Sample : 050,,VSTD
 Misc : VSTD050
 Quant Time: Aug 19 11:47 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.26min 58.75ug/l m

response 2629363

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	66.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081905.B\081902.D
 Acq On : 19 Aug 2005 10:14 am
 Sample : 050,,VSTD
 Misc : VSTD050
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 11:47 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Initial Calibration
 DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.28	49	1812736	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4851340	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3973174	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	2034868	49.55	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	99.10%
42) Toluene-d8	13.52	98	4669297	50.20	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	100.40%
46) Bromofluorobenzene	17.78	95	3491731	49.85	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	99.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.61	85	1783988	56.10	ug/l	97
3) Chloromethane	2.82	50	876627	56.28	ug/l	98
4) Bromomethane	3.53	94	1149557	61.37	ug/l	99
5) Vinyl Chloride	3.06	62	951736	57.49	ug/l	100
6) Chloroethane	3.71	64	648620	59.78	ug/l	94
7) Trichlorofluoromethane	4.26	101	2629363m	58.75	ug/l	
8) FC-113	5.25	101	2914276	52.57	ug/l	97
9) Methylene Chloride	6.26	84	1283605	53.06	ug/l #	83
10) Acetone	5.34	43	261443	55.87	ug/l	92
11) Carbon Disulfide	5.61	76	2722976	54.58	ug/l	98
12) MTBE	6.89	73	2460236	50.20	ug/l #	91
13) 1,1-Dichloroethene	5.17	96	1229027	52.24	ug/l #	84
14) 1,1-Dichloroethane	7.70	63	2403934	51.82	ug/l	99
15) Methyl Acetate	6.10	43	579502	50.70	ug/l #	88
16) trans-1,2-Dichloroethene	6.85	96	1321931	51.21	ug/l #	80
17) cis-1,2-Dichloroethene	8.84	96	1366917	52.32	ug/l #	82
18) Chloroform	9.46	83	2942381	52.35	ug/l	100
20) 1,2-Dichloroethane	10.44	62	1980237	52.14	ug/l	99
21) 2-Butanone	8.91	43	338805	55.39	ug/l	92
23) 1,1,1-Trichloroethane	9.75	97	2455098	52.29	ug/l	97
24) Carbon Tetrachloride	10.04	117	2476406	52.64	ug/l	96
25) Cyclohexane	9.84	56	1916380	52.75	ug/l	86
26) Bromodichloromethane	12.37	83	2701703	53.72	ug/l	98
27) 1,2-Dichloropropane	11.89	63	1502167	52.42	ug/l	98
28) cis-1,3-Dichloropropene	13.10	75	2025816	53.28	ug/l	95
29) Trichloroethene	11.52	130	1871803	52.32	ug/l	96
30) Benzene	10.41	78	3407344	51.63	ug/l	100
31) Methylcyclohexane	11.83	83	1985052	52.15	ug/l #	83
32) Dibromochloromethane	14.93	129	2610893	55.52	ug/l	99
33) trans-1,3-Dichloropropene	14.00	75	1742223	52.97	ug/l	99
34) 1,1,2-Trichloroethane	14.30	97	1368736	53.05	ug/l	98
35) Bromoform	17.26	173	1896646	54.81	ug/l	96
37) 4-Methyl-2-Pentanone	13.35	43	990531	56.23	ug/l	94
38) 2-Hexanone	14.71	43	655547	56.73	ug/l	93
39) Tetrachloroethene	14.53	166	2599312	53.29	ug/l	96
40) 1,2-Dibromoethane	15.11	107	2279366	54.03	ug/l	99
41) 1,1,2,2-Tetrachloroethane	18.03	83	1948231	52.83	ug/l	98
43) Toluene	13.63	91	4295811	52.70	ug/l	98
44) Chlorobenzene	15.91	112	3383115	52.76	ug/l	98

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Data File : Z:\MSD\081905.B\V081902.D

Vial: 6

Acq On : 19 Aug 2005 10:14 am

Operator: DMD

Sample : 050,,VSTD

Inst : MSD

Misc : VSTD050

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Aug 19 11:47 19105

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\METHODS\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Aug 18 14:01:32 2005

Response via : Initial Calibration

DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.09	91	5140208	52.09	ug/l	97
47) m,p-Xylene	16.28	91	8594868	106.62	ug/l	94
48) o-Xylene	16.93	91	4330416	52.15	ug/l	96
49) Styrene	16.95	104	2350441	52.99	ug/l #	80
50) Isopropylbenzene	17.53	105	5425824	52.32	ug/l	97
51) 1,3-Dichlorobenzene	19.59	146	3451949	53.40	ug/l	95
52) 1,4-Dichlorobenzene	19.74	146	3738327	53.89	ug/l	94
53) 1,2-Dichlorobenzene	20.36	146	3267141	53.66	ug/l	96
54) 1,2-Dibromo-3-Chloropropan	21.66	75	373911	55.18	ug/l	81
55) 1,2,4-Trichlorobenzene	23.06	180	2524073	55.85	ug/l	100

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

V081902.D 9510818.M

Wed Aug 31 18:33:57 2005

RPT1

Page 2

MACTEC Engineering & Consulting, Inc.

Merrimack, NH

Project: 3640030018

STL Lab # 251041

Matrix: Water

2 of 2

CLPBFB

Data File : Z:\MSD\081805.B\V081801.D

Acq On : 18 Aug 2005 9:45 am

Sample : BFB

Misc : BFB

MS Integration Params: RTEINT.P

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

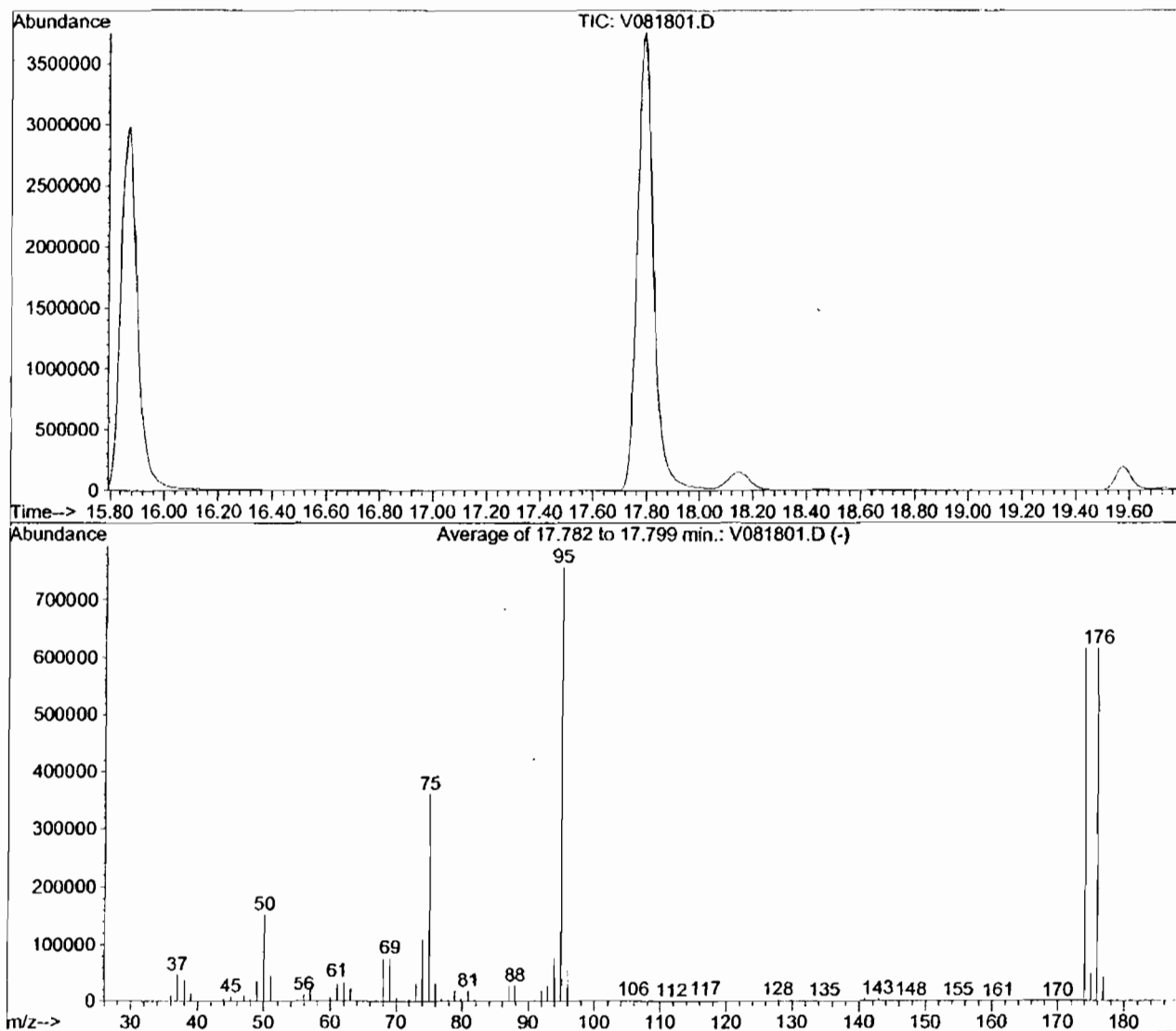
Vial: 6

Operator: DMD

Inst : MSD

Multiplr: 1.00

DMD 8/31/05



AutoFind: Scans 2726, 2727, 2728; Background Corrected with Scan 2713

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.1	152341	PASS
75	95	30	60	47.7	360832	PASS
95	95	100	100	100.0	756885	PASS
96	95	5	9	7.3	55397	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.9	612416	PASS
175	174	5	9	8.0	49133	PASS
176	174	95	101	100.6	616299	PASS
177	176	5	9	6.9	42765	PASS

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CLPFB

Data File : Z:\MSD\081805.B\V081807.D

Acq On : 18 Aug 2005 2:51 pm

Sample : BFB

Misc : BFB

MS Integration Params: RTEINT.P

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

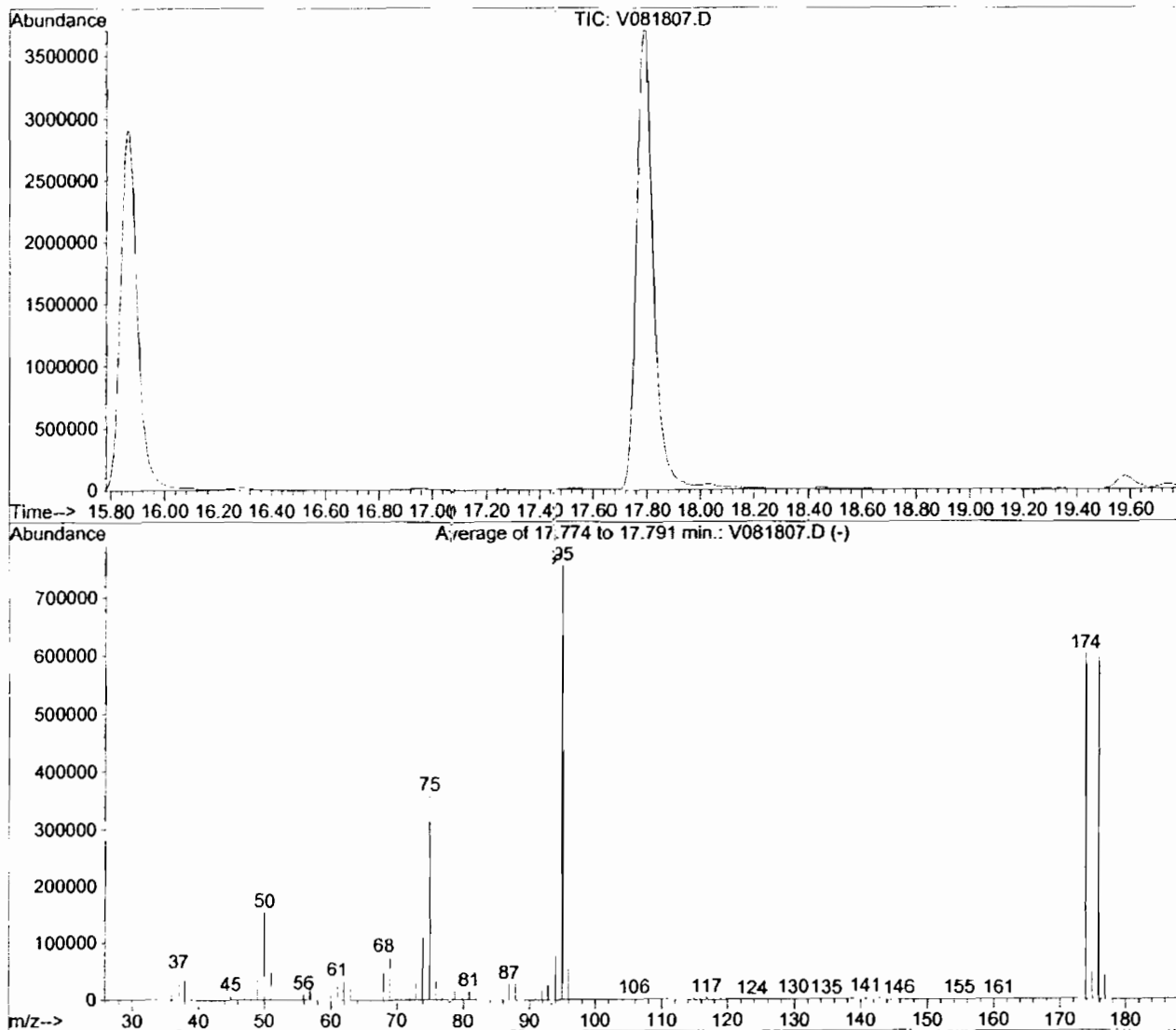
Vial: 6

Operator: DMD

Inst : MSD

Multiplr: 1.00

DMD 8/31/05



AutoFind: Scans 2736, 2737, 2738: Background Corrected with Scan 2725

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.6	155648	PASS
75	95	30	60	47.5	359296	PASS
95	95	100	100	100.0	755947	PASS
96	95	5	9	7.2	54115	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.8	603008	PASS
175	174	5	9	8.0	48451	PASS
176	174	95	101	99.0	597099	PASS
177	176	5	9	7.0	168109	PASS

168 of 317

CLPBFB

Data File : Z:\MSD\081905.B\081901.D

Acq On : 19 Aug 2005 9:26 am

Sample : BFB

Misc : BFB

MS Integration Params: RTEINT.P

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

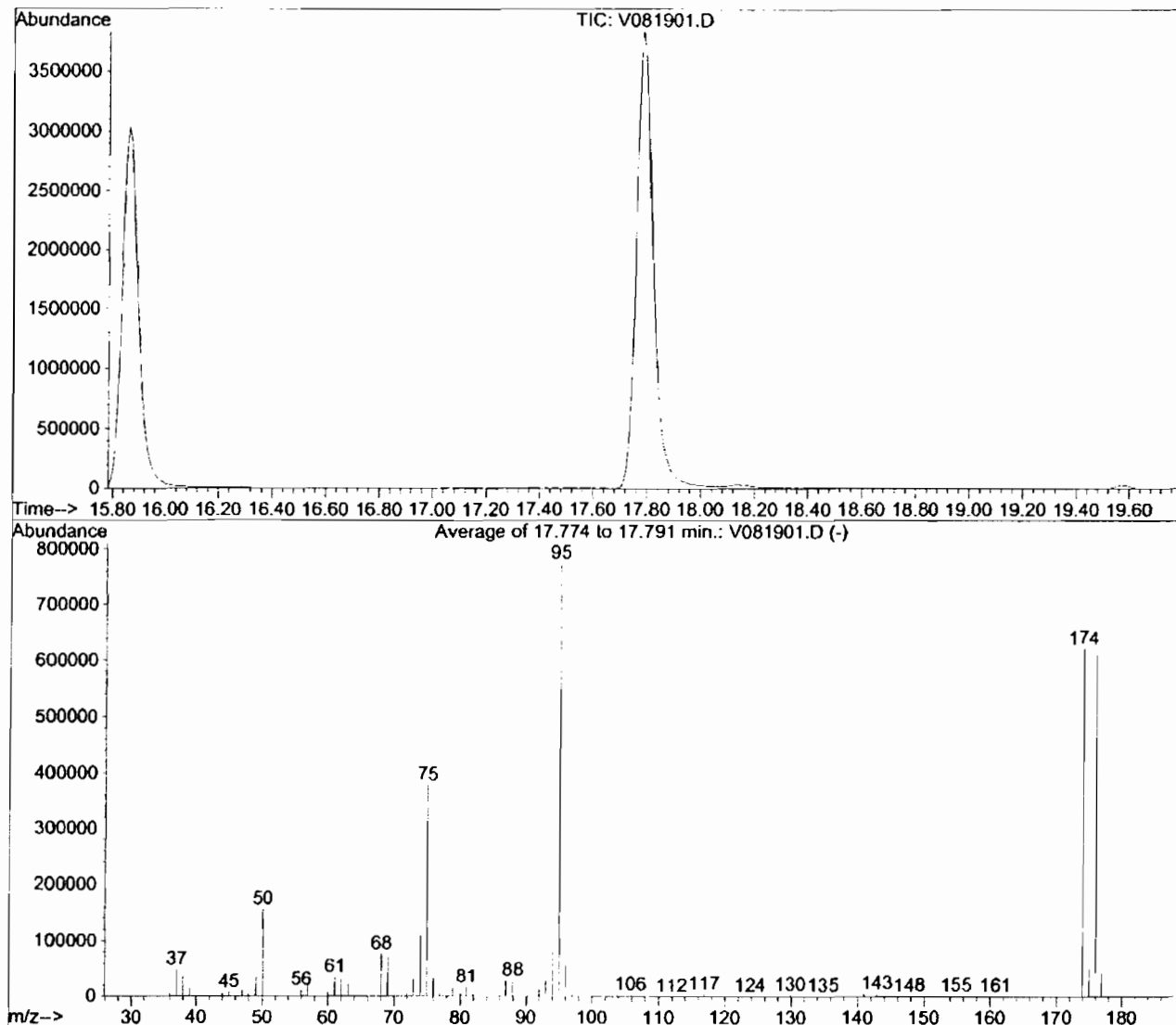
Vial: 6

Operator: DMD

Inst : MSD

Multiplr: 1.00

DMD 8/31/05



AutoFind: Scans 2727, 2728, 2729; Background Corrected with Scan 2715

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.2	156309	PASS
75	95	30	60	48.9	378261	PASS
95	95	100	100	100.0	773781	PASS
96	95	5	9	7.2	55373	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.5	622528	PASS
175	174	5	9	8.2	51349	PASS
176	174	95	101	98.3	612224	PASS
177	176	5	9	7.0	4289	PASS

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK018

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: VBK018
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081809.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 8/18/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane		U	10
74-83-9	Bromomethane		U	10
75-01-4	Vinyl Chloride		U	10
75-00-3	Chloroethane		U	10
75-09-2	Methylene Chloride		U	10
67-64-1	Acetone	5.3	J	10
75-15-0	Carbon Disulfide		U	10
75-35-4	1,1-Dichloroethene		U	10
75-34-4	1,1-Dichloroethane		U	10
156-60-5	trans-1,2-Dichloroethene		U	10
540-59-0	cis-1,2-Dichloroethene		U	10
67-66-3	Chloroform		U	10
107-06-2	1,2-Dichloroethane		U	10
78-93-3	2-Butanone	3.6	J	10
71-55-6	1,1,1-Trichloroethane		U	10
56-23-5	Carbon Tetrachloride		U	10
75-27-4	Bromodichloromethane		U	10
78-87-5	1,2-Dichloropropane		U	10
10061-01-5	cis-1,3-Dichloropropene		U	10
79-01-6	Trichloroethene		U	10
71-43-2	Benzene		U	10
124-48-1	Dibromochloromethane		U	10
10061-02-6	trans-1,3-Dichloropropene		U	10
79-00-5	1,1,2-Trichloroethane		U	10
75-25-2	Bromoform		U	10
108-10-1	4-Methyl-2-Pentanone	1.9	J	10
591-78-6	2-Hexanone		U	10
127-18-4	Tetrachloroethene		U	10
79-34-5	1,1,2,2-Tetrachloroethane		U	10
108-88-3	Toluene		U	10
108-90-7	Chlorobenzene		U	10
100-41-4	Ethylbenzene		U	10
100-42-5	Styrene		U	10
1330-20-7	Xylenes, total		U	10

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NYSDOH 10142

NJDEP 73015

FORM IVOA

CTDOHS PH-0564

EPA NY049

PA 66-378

3/90

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK018

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: VBLK018

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081809.D

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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FORM I VOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 66-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

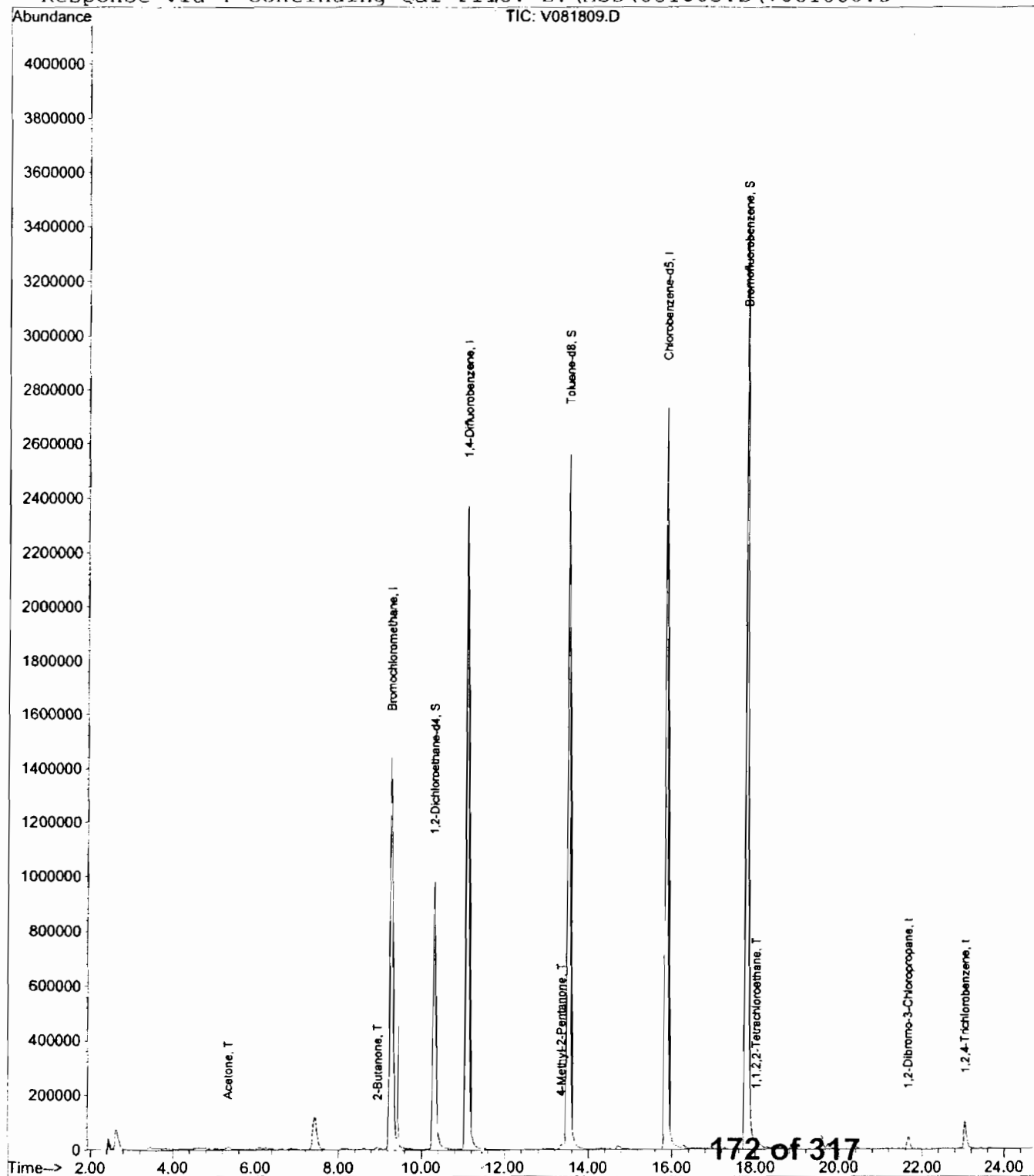
Quantitation Report

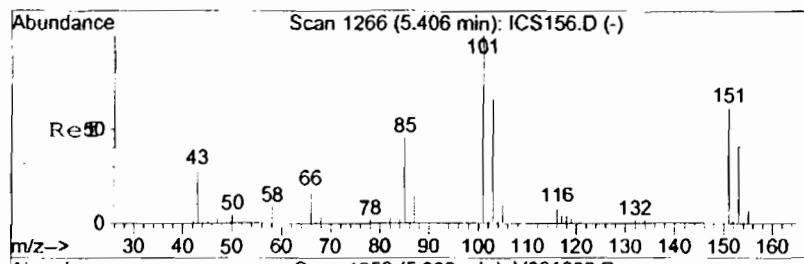
Data File : Z:\MSD\081805.B\081809.D
 Acq On : 18 Aug 2005 4:25 pm
 Sample : 018,,VBLK
 Misc : VBLK018
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:42 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

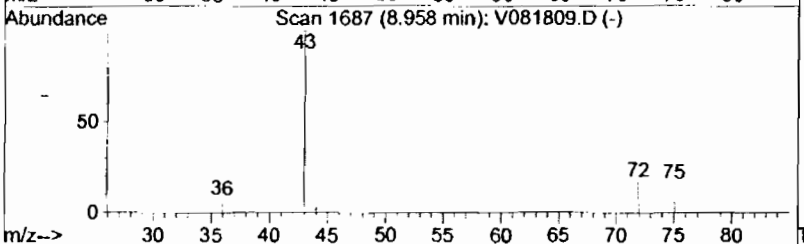
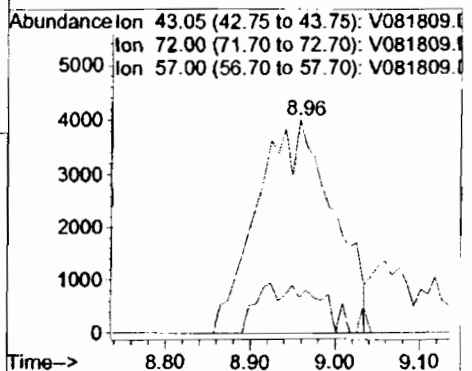
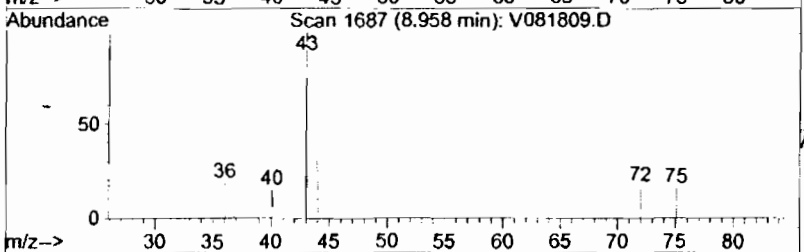
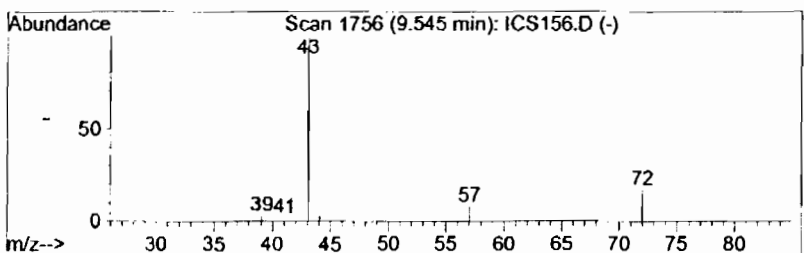
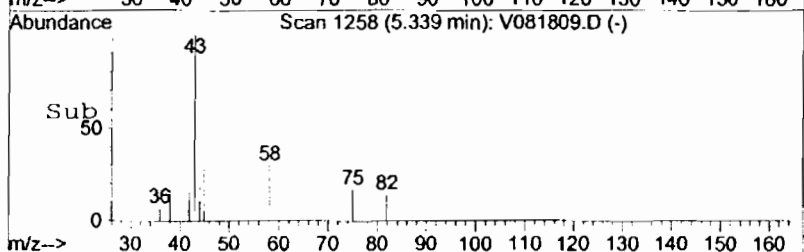
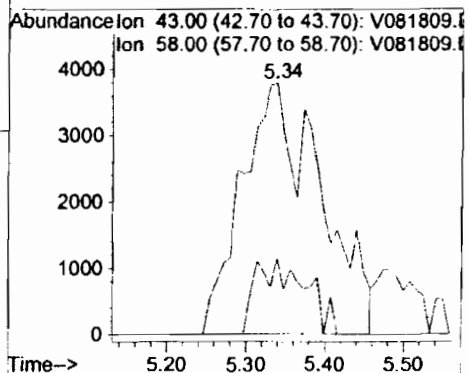
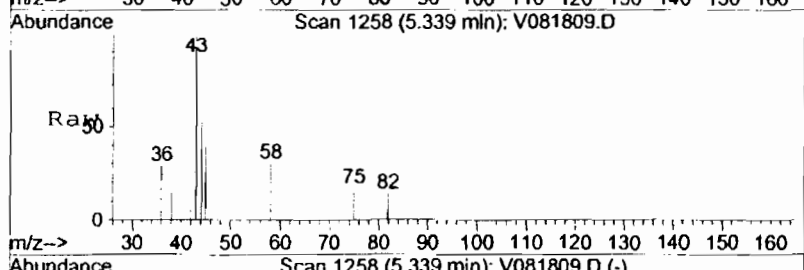
Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: Z:\MSD\081805.B\081808.D

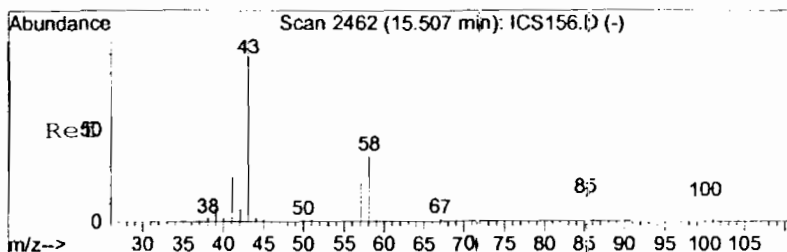




#10
 Acetone
 Concen: 5.33 ug/l m
 RT: 5.34 min Scan# 1258
 Delta R.T. 0.01 min
 Lab File: V081809.D
 Acq: 18 Aug 2005 4:25 pm

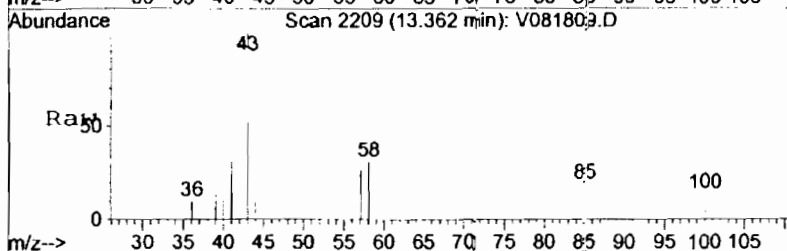
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	26229		
58	30.4	5.2	45.2	



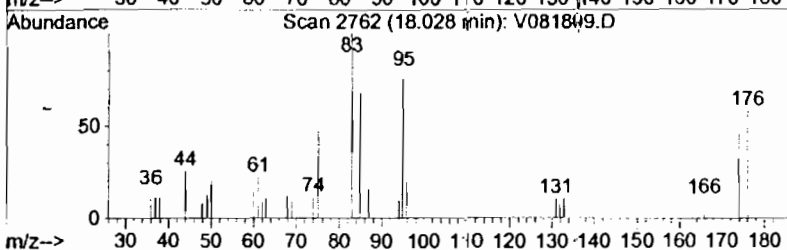
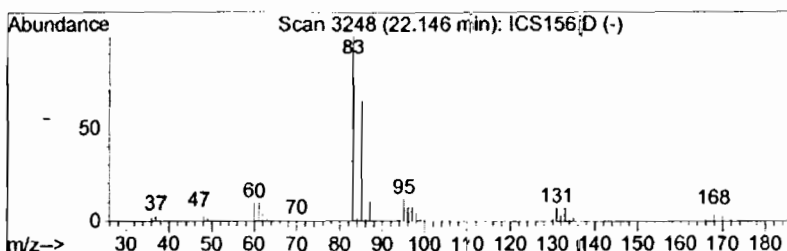
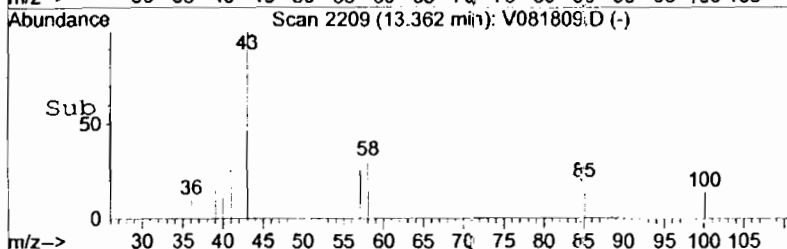
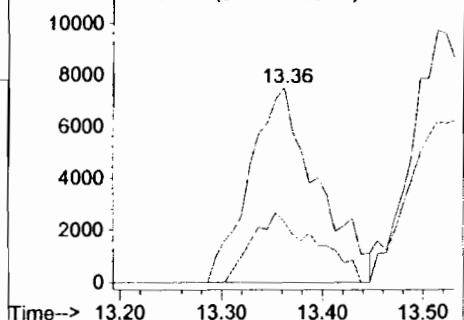


#37
 4-Methyl-2-Pentanone
 Concen: 1.90 ug/l
 RT: 13.36 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: V081809.D
 Acq: 18 Aug 2005 4:25 pm

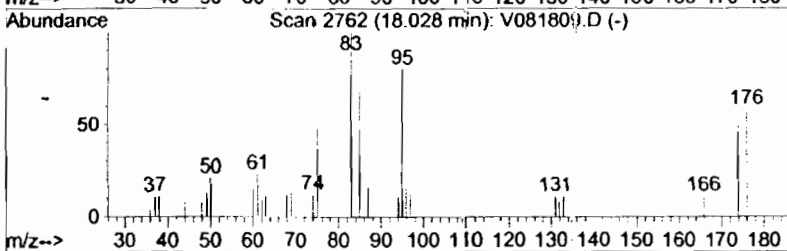
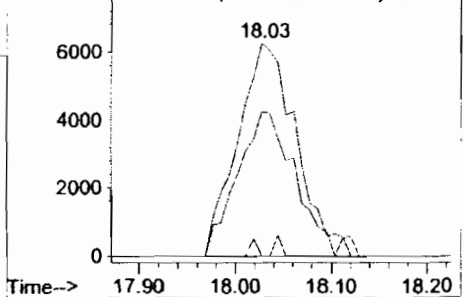
Tgt Ion: 43 Resp: 34787
 Ion Ratio Lower Upper
 43 100
 58 31.2 20.0 60.0

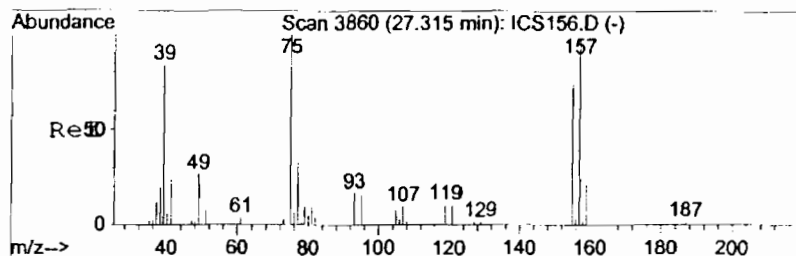


Abundance Ion 43.00 (42.70 to 43.70): V081809.D
 Ion 58.00 (57.70 to 58.70): V081809.D



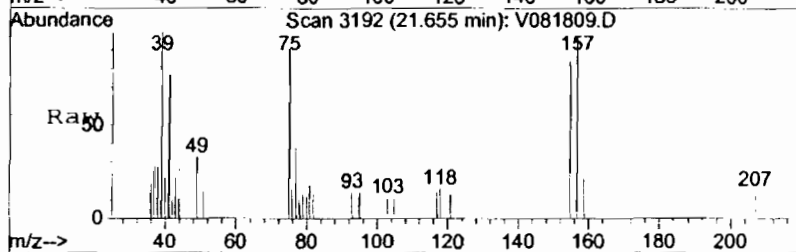
Abundance Ion 83.00 (82.70 to 83.70): V081809.D
 Ion 85.00 (84.70 to 85.70): V081809.D
 Ion 168.00 (167.70 to 168.70): V081809.D



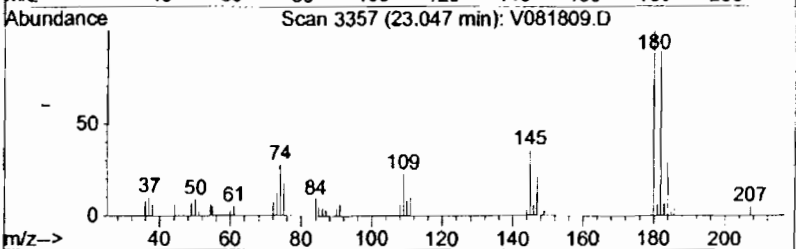
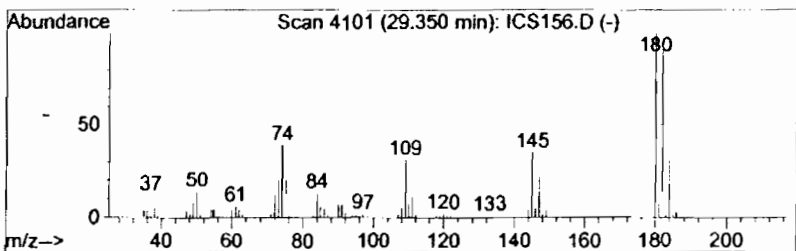
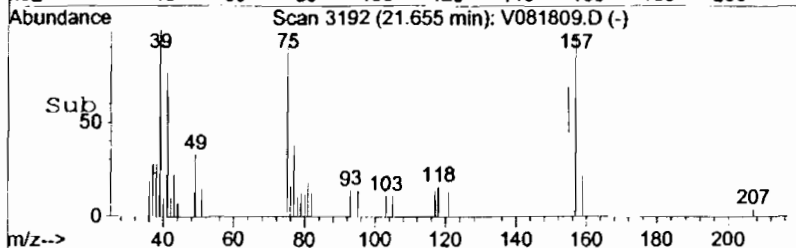
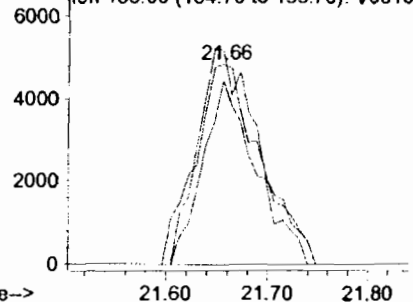


#54
 1,2-Dibromo-3-Chloropropane
 Concen: 2.55 ug/l
 RT: 21.66 min Scan# 3192
 Delta R.T. 0.00 min
 Lab File: V081809.D
 Acq: 18 Aug 2005 4:25 pm

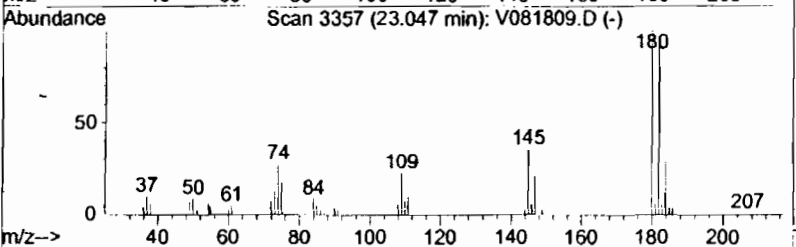
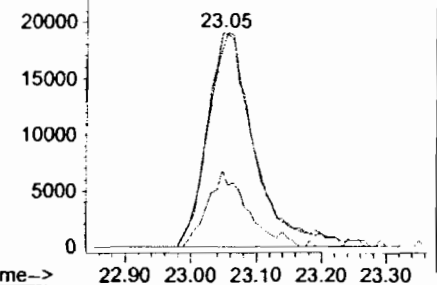
Tgt Ion	Ratio	Lower	Upper
75	100		
157	102.7	112.2	168.4#
155	74.7	85.5	128.3#



Abundance Ion 75.00 (74.70 to 75.70): V081809.D
 Ion 157.00 (156.70 to 157.70): V081809.D
 Ion 155.00 (154.70 to 155.70): V081809.D



Abundance Ion 180.00 (179.70 to 180.70): V081809.D
 Ion 182.00 (181.70 to 182.70): V081809.D
 Ion 145.00 (144.70 to 145.70): V081809.D



Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\V081809.D

Vial: 6

Acq On : 18 Aug 2005 4:25 pm

Operator: DMD

Sample : 018,,VBLK

Inst : MSD

Misc : VBLK018

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Aug 31 18:42 19105

Quant Results File: 9510818.RES

Quant Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Aug 18 14:01:32 2005

Response via : Continuing Cal File: Z:\MSD\081805.B\V081808.D

DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.27	49	1742037	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4501582	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3641062	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	1795681	47.18	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	94.36%
42) Toluene-d8	13.51	98	4111988	49.87	ug/l	-0.02
Spiked Amount	50.000	Range	88 - 110	Recovery	=	99.74%
46) Bromofluorobenzene	17.78	95	3179276	49.34	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	98.68%

Target Compounds

						Qvalue
10) Acetone	5.34	43	26229m	5.33	ug/l	
21) 2-Butanone	8.96	43	24843m	3.61	ug/l	
37) 4-Methyl-2-Pentanone	13.36	43	34787	1.90	ug/l	86
41) 1,1,2,2-Tetrachloroethane	18.03	83	26658	0.64	ug/l	95
54) 1,2-Dibromo-3-Chloropropan	21.66	75	21485	2.55	ug/l	# 69
55) 1,2,4-Trichlorobenzene	23.05	180	94925	1.76	ug/l	99

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

V081809.D 9510818.M

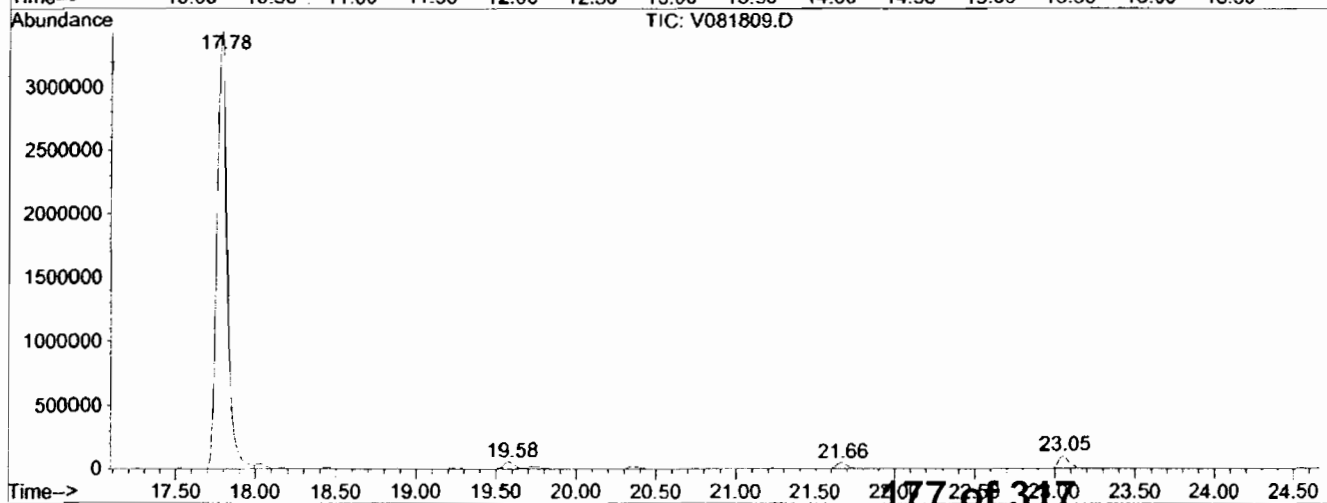
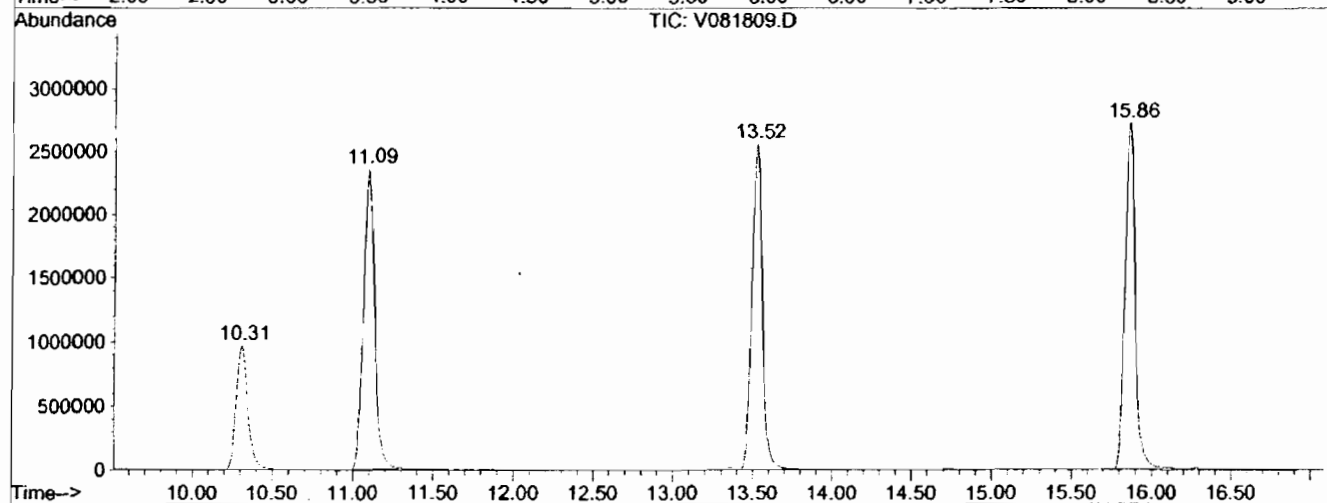
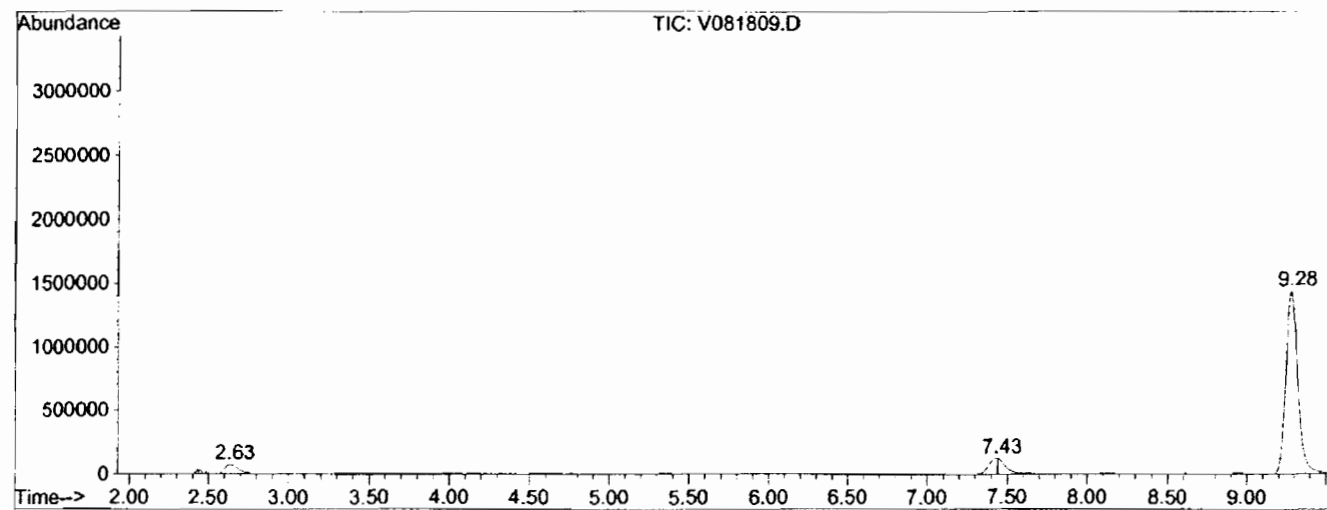
Wed Aug 31 18:42:52 2005

RPT1

Page 1

LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.B\081809.D
 Operator : DMD
 Acquired : 18 Aug 2005 4:25 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 018,,VBLK
 Misc Info : VBLK018
 Vial Number: 6
 Quant File : 9510818.RES (RTE Integrator)



Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 4:25 pm
 Data File: Z:\MSD\081805.B\V081809.E
 Name: 018,,VBLK
 Misc: VBLK018
 Method: Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.1

TIC Top	Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
V081809.D	9510818.M	Wed Aug 31	18:43:10	2005			RPT1		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK019

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: VBK019
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081903.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 8/19/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane		U	10
74-83-9	Bromomethane		U	10
75-01-4	Vinyl Chloride		U	10
75-00-3	Chloroethane		U	10
75-09-2	Methylene Chloride		U	10
67-64-1	Acetone	3.1	J	10
75-15-0	Carbon Disulfide		U	10
75-35-4	1,1-Dichloroethene		U	10
75-34-4	1,1-Dichloroethane		U	10
156-60-5	trans-1,2-Dichloroethene		U	10
540-59-0	cis-1,2-Dichloroethene		U	10
67-66-3	Chloroform		U	10
107-06-2	1,2-Dichloroethane		U	10
78-93-3	2-Butanone		U	10
71-55-6	1,1,1-Trichloroethane		U	10
56-23-5	Carbon Tetrachloride		U	10
75-27-4	Bromodichloromethane		U	10
78-87-5	1,2-Dichloropropane		U	10
10061-01-5	cis-1,3-Dichloropropene		U	10
79-01-6	Trichloroethene		U	10
71-43-2	Benzene		U	10
124-48-1	Dibromochloromethane		U	10
10061-02-6	trans-1,3-Dichloropropene		U	10
79-00-5	1,1,2-Trichloroethane		U	10
75-25-2	Bromoform		U	10
108-10-1	4-Methyl-2-Pentanone		U	10
591-78-6	2-Hexanone		U	10
127-18-4	Tetrachloroethene		U	10
79-34-5	1,1,2,2-Tetrachloroethane		U	10
108-88-3	Toluene		U	10
108-90-7	Chlorobenzene		U	10
100-41-4	Ethylbenzene		U	10
100-42-5	Styrene		U	10
1330-20-7	Xylenes, total		U	10

179 of 317

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NYSDOH 10142

NJDEP 73015

FORM 1 VOA

CHDOHS PH 0554

EPA NY049

PA 68-378

3/00

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK019

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: VBLK019
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081903.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 8/19/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.43	7	JN

180 of 317

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NYSDOH 10142

NJDEP 73015

FORM 1 VOA-TIC

CTDHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

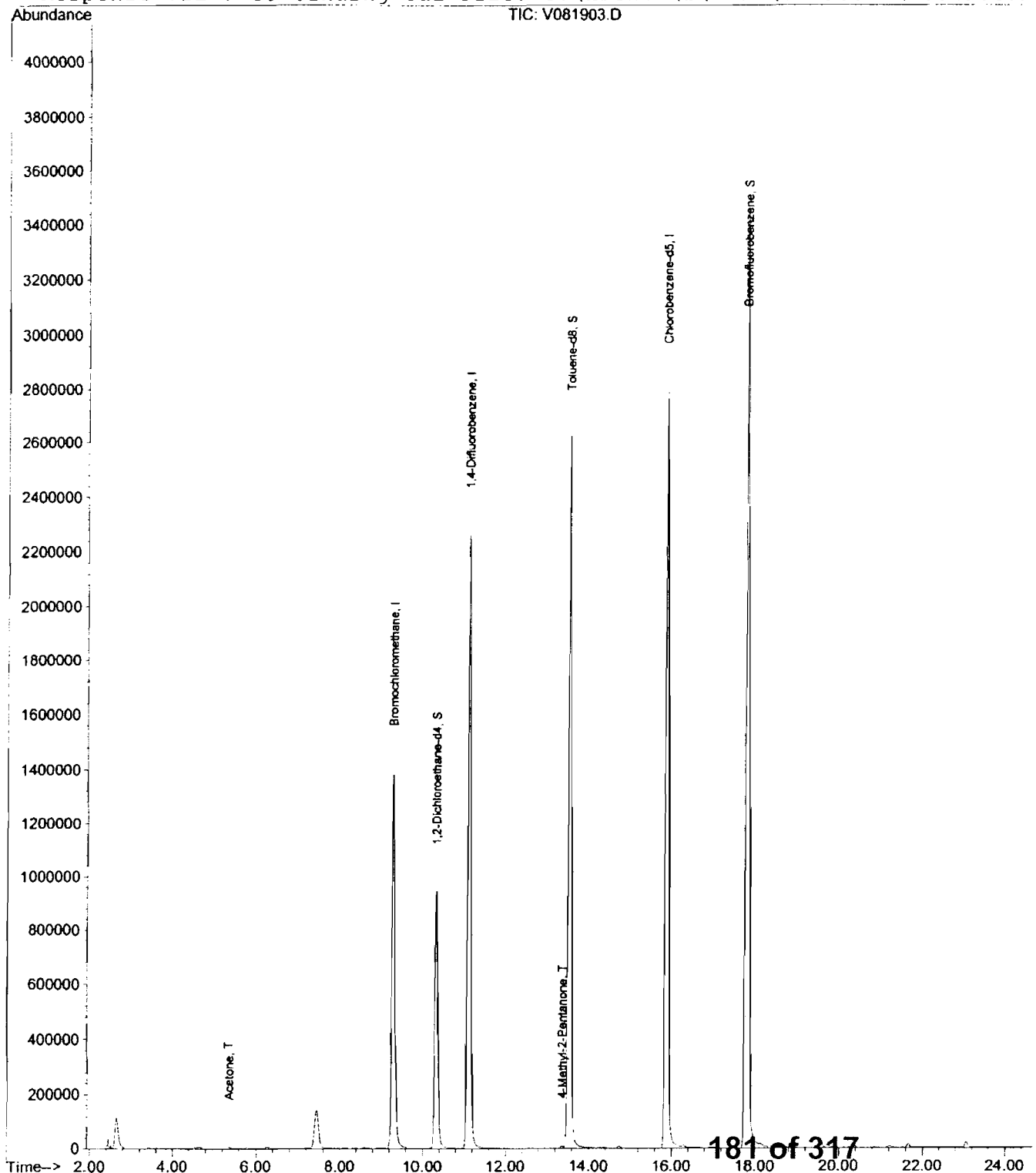
Quantitation Report

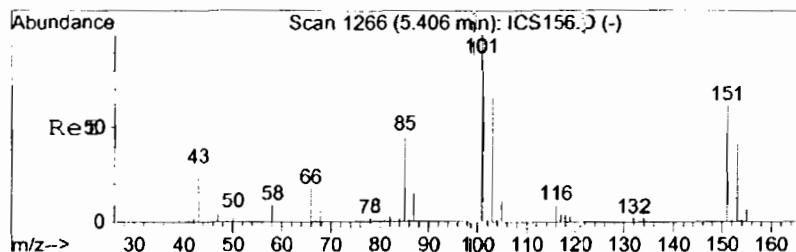
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 Sample : 019,,VBLK
 Misc : VBLK019
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:29 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\V081902.D





#10

Acetone

Concen: 3.12 ug/l m

RT: 5.36 min Scan# 1262

Delta R.T. 0.02 min

Lab File: V081903.D

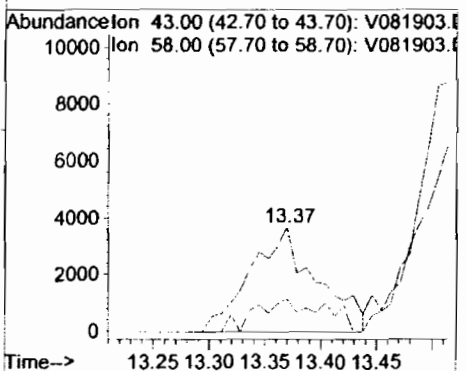
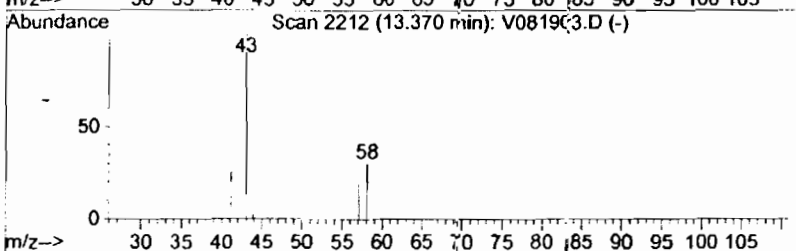
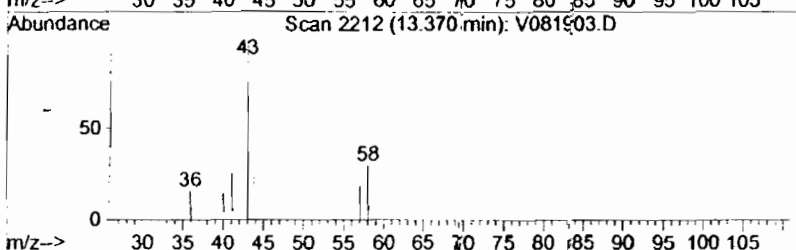
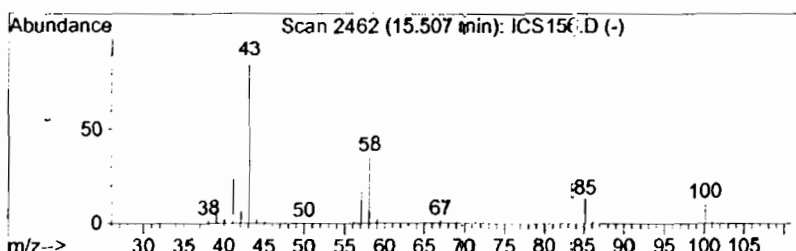
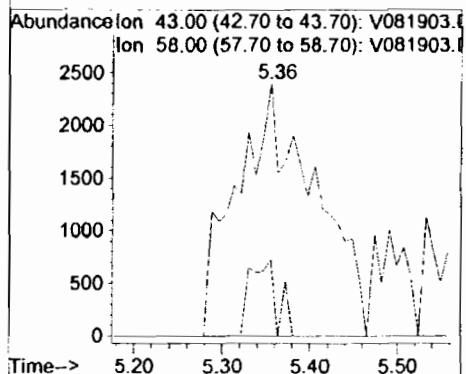
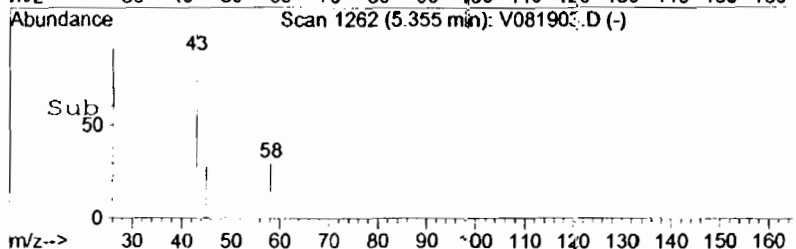
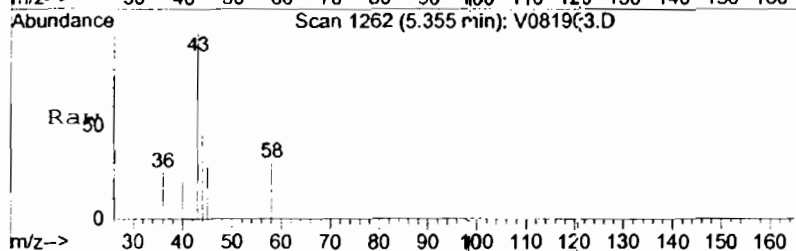
Acq: 19 Aug 2005 12:02 pm

Tgt Ion: 43 Resp: 14909

Ion Ratio Lower Upper

43 100

58 30.2 5.2 45.2



Data File : Z:\MSD\081905.B\V081903.D

Vial: 6

Acq On : 19 Aug 2005 12:02 pm

Operator: DMD

Sample : 019,,VBLK

Inst : MSD

Misc : VBLK019

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Aug 31 18:29 19105

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Aug 18 14:01:32 2005

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\V081902.D

DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.27	49	1654145	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4418488	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.87	117	3769762	50.00	ug/l	0.00
System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	10.32	65	1742021	46.91	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery =	93.82%		
42) Toluene-d8	13.52	98	4165462	47.01	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery =	94.02%		
46) Bromofluorobenzene	17.78	95	3122294	47.12	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	94.24%		
Target Compounds						
10) Acetone	5.36	43	14909m/mo	3.12	ug/l	Qvalue
37) 4-Methyl-2-Pentanone	13.37	43	15095	0.80	ug/l	84

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

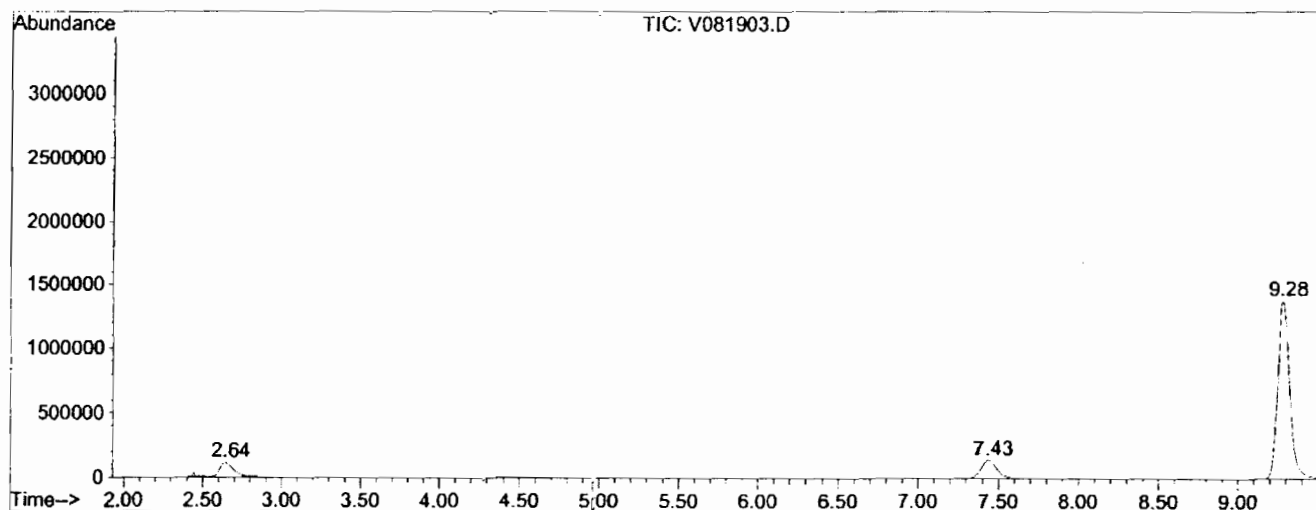
V081903.D 9510818.M Wed Aug 31 18:34:52 2005

RPT1

Page 1

LSC Report - Integrated Chromatogram

File : Z:\MSD\081905.B\081903.D
 Operator : DMD
 Acquired : 19 Aug 2005 12:02 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 019,,VBLK
 Misc Info : VBLK019
 Vial Number: 6
 Quant File : 9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081905.B\081903.D

Acq On : 19 Aug 2005 12:02 pm

Sample : 019,,VBLK

Misc : VBLK019

MS Integration Params: LSCINT.P

Vial: 6

Operator: DMD

Inst : MSD

Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)

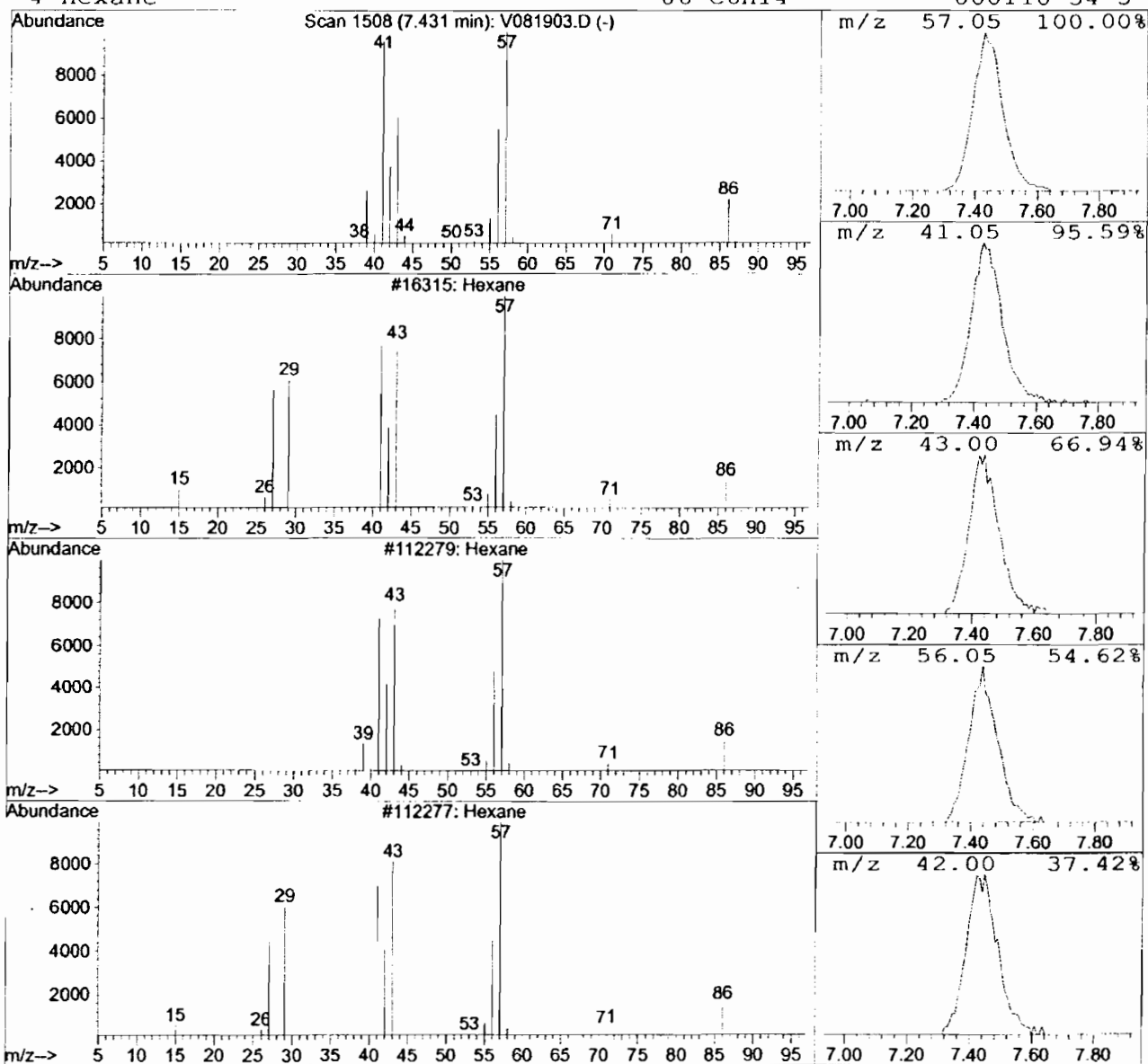
Title : Method 91.1, 8240, and 624 waters.

Library : C:\DATABASE\nist98.1

Peak Number 1 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.43	6.68 ug/l	971730	Bromochloromethane	9.27

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	72
2	Hexane			86	C6H14	000110-54-3	72
3	Hexane			86	C6H14	000110-54-3	64
4	Hexane			86	C6H14	000110-54-3	86



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 19 Aug 2005 12:02 pm
 Data File: Z:\MSD\081905.B\081903.D
 Name: 019,,VBLK
 Misc: VBLK019
 Method: C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\mist98.1

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Hexane	7.43	6.7	ug/l	971730	ISTD01	9.27	7276900	50.0
V081903.D 9510818.M		Wed Aug 31 18:35:08 2005				RPT1		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS018

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 018VLCS
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081812.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. Date Analyzed: 8/18/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane		U	10
74-83-9	Bromomethane		U	10
75-01-4	Vinyl Chloride		U	10
75-00-3	Chloroethane		U	10
75-09-2	Methylene Chloride		U	10
67-64-1	Acetone	4.3	JB	10
75-15-0	Carbon Disulfide		U	10
75-35-4	1,1-Dichloroethene		U	10
75-34-4	1,1-Dichloroethane		U	10
156-60-5	trans-1,2-Dichloroethene		U	10
540-59-0	cis-1,2-Dichloroethene		U	10
67-66-3	Chloroform		U	10
107-06-2	1,2-Dichloroethane	54		10
78-93-3	2-Butanone		U	10
71-55-6	1,1,1-Trichloroethane		U	10
56-23-5	Carbon Tetrachloride	56		10
75-27-4	Bromodichloromethane		U	10
78-87-5	1,2-Dichloropropane	57		10
10061-01-5	cis-1,3-Dichloropropene	58		10
79-01-6	Trichloroethene	57		10
71-43-2	Benzene	58		10
124-48-1	Dibromochloromethane		U	10
10061-02-6	trans-1,3-Dichloropropene		U	10
79-00-5	1,1,2-Trichloroethane	58		10
75-25-2	Bromoform	59		10
108-10-1	4-Methyl-2-Pentanone	2.2	JB	10
591-78-6	2-Hexanone		U	10
127-18-4	Tetrachloroethene	56		10
79-34-5	1,1,2,2-Tetrachloroethane	1.4	J	10
108-88-3	Toluene		U	10
108-90-7	Chlorobenzene		U	10
100-41-4	Ethylbenzene		U	10
100-42-5	Styrene		U	10
1330-20-7	Xylenes, total		U	10

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STL

FORM IVOA

3/90

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

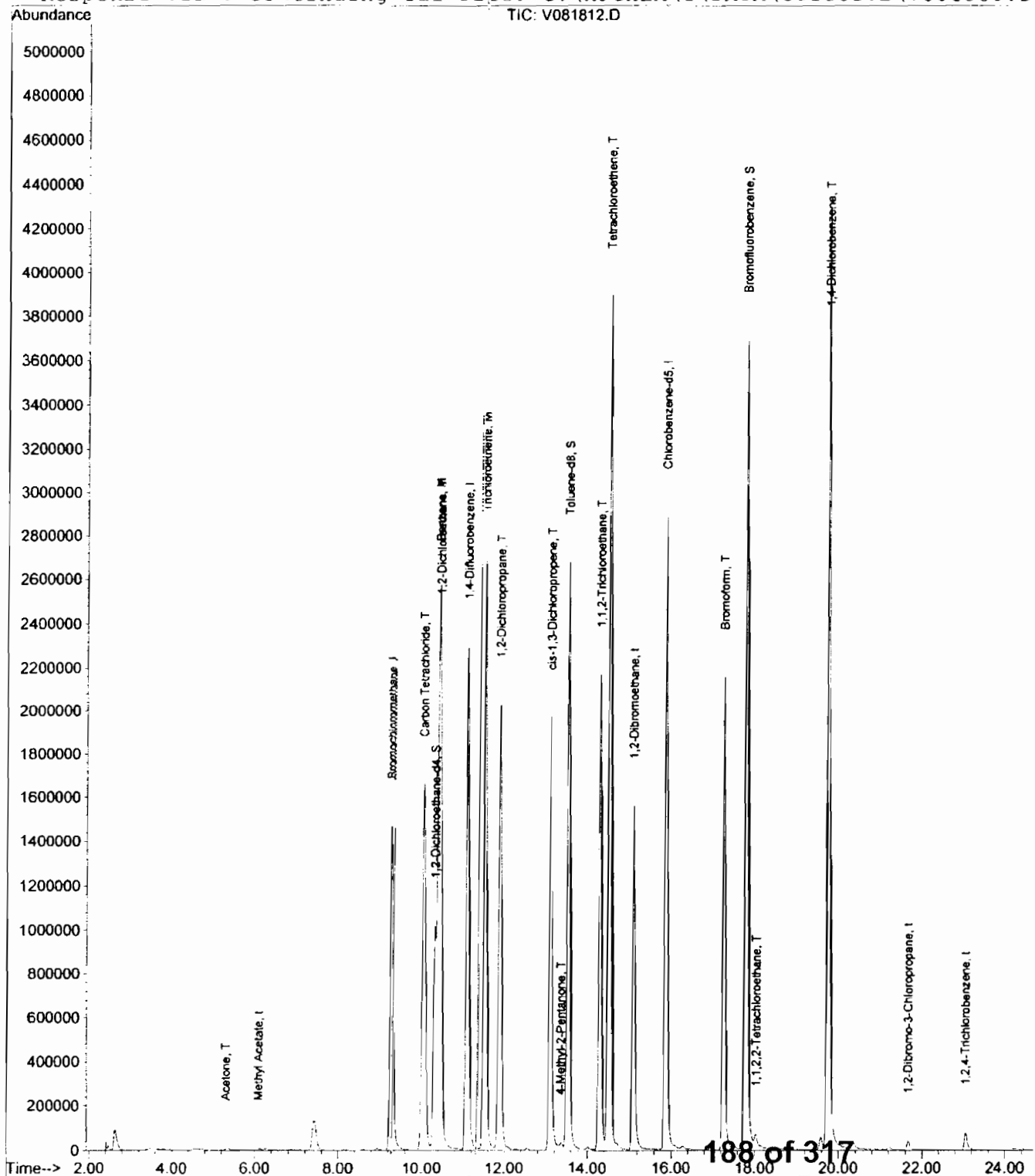
Quantitation Report

Data File : Z:\MSD\081805.B\081812.D
 Acq On : 18 Aug 2005 5:13 pm
 Sample : 018,,VLCS
 Misc : VLCS018|018,,V3LK|
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 9:52 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\081808.D



Data File : Z:\MSD\081805.B\V081812.D
Acq On : 18 Aug 2005 6:13 pm
Sample : 018,,VLCS
Misc : VLCS018|018,,VBLK|
MS Integration Params: RTEINT.P
Quant Time: Aug 19 9:52 19105

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.REP

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D
DataAcq Meth : 9510818

DMD 8/18/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1767875	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4494671	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3792125	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	1882212	48.73	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	97.46%
42) Toluene-d8	13.52	98	4289680	49.95	ug/l	0.00
Spiked Amount	50.000	Range	88 - 110	Recovery	=	99.90%
46) Bromofluorobenzene	17.78	95	3382240	50.40	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	100.80%

Target Compounds

						Qvalue
10) Acetone	5.30	43	21534	4.32	ug/l	97
15) Methyl Acetate	6.10	43	26330	2.06	ug/l	# 76
20) 1,2-Dichloroethane	10.44	62	2374581	54.16	ug/l	98
24) Carbon Tetrachloride	10.04	117	2933859	55.88	ug/l	99
27) 1,2-Dichloropropane	11.89	63	1841054	57.01	ug/l	99
28) cis-1,3-Dichloropropene	13.09	75	2532640	57.84	ug/l	97
29) Trichloroethene	11.52	130	2266417	57.02	ug/l	94
30) Benzene	10.40	78	4231446	57.62	ug/l	100
34) 1,1,2-Trichloroethane	14.29	97	1633464	58.27	ug/l	97
35) Bromoform	17.25	173	2410492	59.17	ug/l	95
37) 4-Methyl-2-Pentanone	13.35	43	41268	2.16	ug/l	96
39) Tetrachloroethene	14.53	166	3109106	56.47	ug/l	97
40) 1,2-Dibromoethane	15.10	107	2694991	55.30	ug/l	99
41) 1,1,2,2-Tetrachloroethane	18.04	83	61188	1.42	ug/l	93
52) 1,4-Dichlorobenzene	19.74	146	4447777	54.46	ug/l	96
54) 1,2-Dibromo-3-Chloropropan	21.65	75	22987	2.62	ug/l	# 70
55) 1,2,4-Trichlorobenzene	23.06	180	75189	1.34	ug/l	97

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

V081812.D 9510818.M

Fri Aug 19 10:20:38 2005

RPT1

Page 1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBSPK018

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: VBSPK018

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081811.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane	51		10
74-83-9	Bromomethane	51		10
75-01-4	Vinyl Chloride	51		10
75-00-3	Chloroethane	49		10
75-09-2	Methylene Chloride	49		10
67-64-1	Acetone	49	B	10
75-15-0	Carbon Disulfide	49		10
75-35-4	1,1-Dichloroethene	49		10
75-34-4	1,1-Dichloroethane	47		10
156-60-5	trans-1,2-Dichloroethene	48		10
540-59-0	cis-1,2-Dichloroethene	47		10
67-66-3	Chloroform	47		10
107-06-2	1,2-Dichloroethane	46		10
78-93-3	2-Butanone	46	B	10
71-55-6	1,1,1-Trichloroethane	47		10
56-23-5	Carbon Tetrachloride	47		10
75-27-4	Bromodichloromethane	46		10
78-87-5	1,2-Dichloropropane	47		10
10061-01-5	cis-1,3-Dichloropropene	47		10
79-01-6	Trichloroethene	47		10
71-43-2	Benzene	48		10
124-48-1	Dibromochloromethane	48		10
10061-02-6	trans-1,3-Dichloropropene	48		10
79-00-5	1,1,2-Trichloroethane	49		10
75-25-2	Bromoform	48		10
108-10-1	4-Methyl-2-Pentanone	48	B	10
591-78-6	2-Hexanone	48		10
127-18-4	Tetrachloroethene	46		10
79-34-5	1,1,2,2-Tetrachloroethane	46		10
108-88-3	Toluene	47		10
108-90-7	Chlorobenzene	46		10
100-41-4	Ethylbenzene	47		10
100-42-5	Styrene	46		10
1330-20-7	Xylenes, total	140		10

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**SEVERN
TRENT** **STL**

NYSDOH 10142

NJDEP 73015

FORM 1 VOA
CTDOHS PH 0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

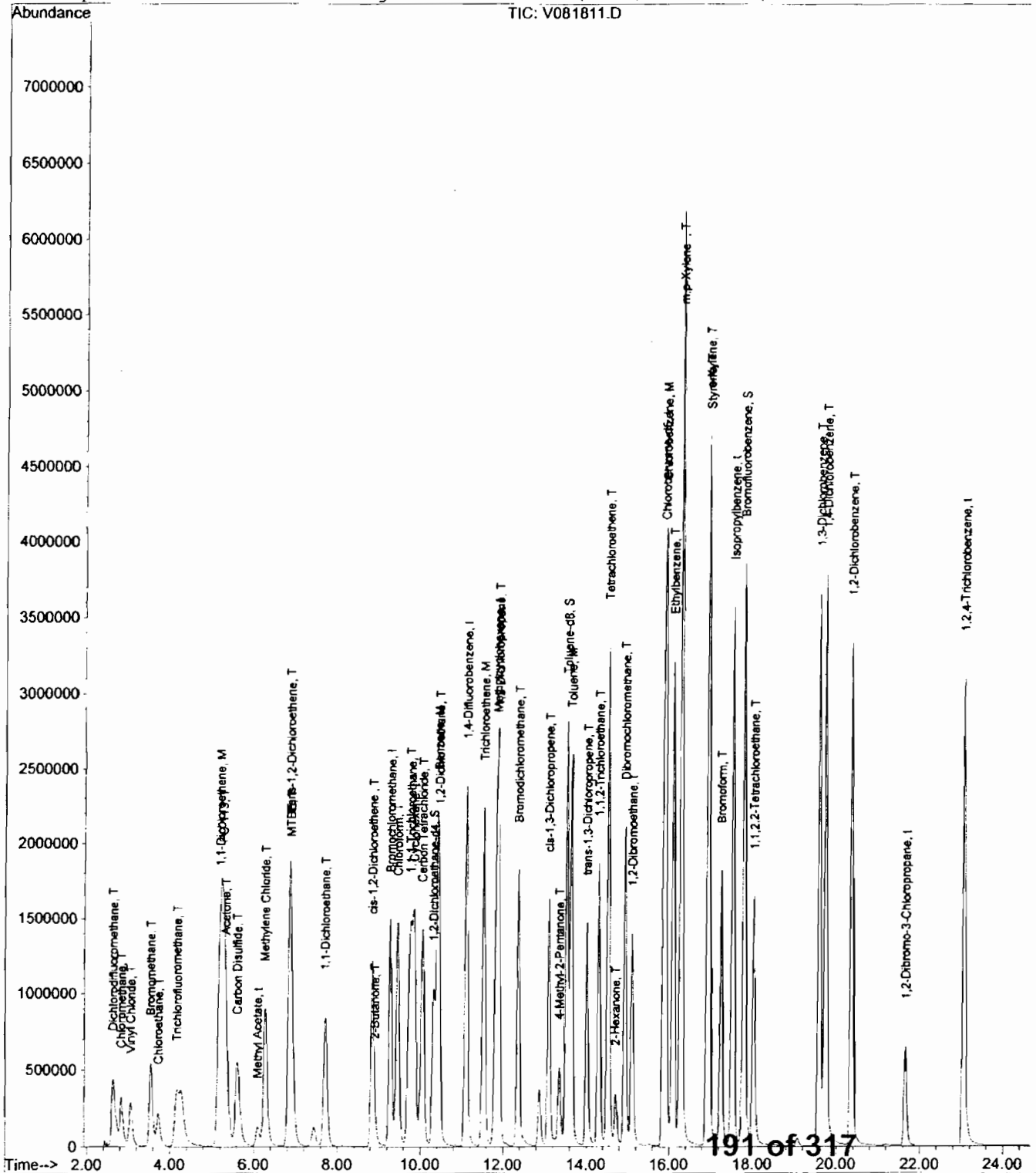
Quantitation Report

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Acq On : 18 Aug 2005 5:39 pm
Sample : 018,,VBSPK
Misc : VBSPK018\018,,VBLK
MS Integration Params: RTEINT.P
Quant Time: Aug 31 18:43 19105

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RE

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: Z:\MSD\081805.B\081808.D

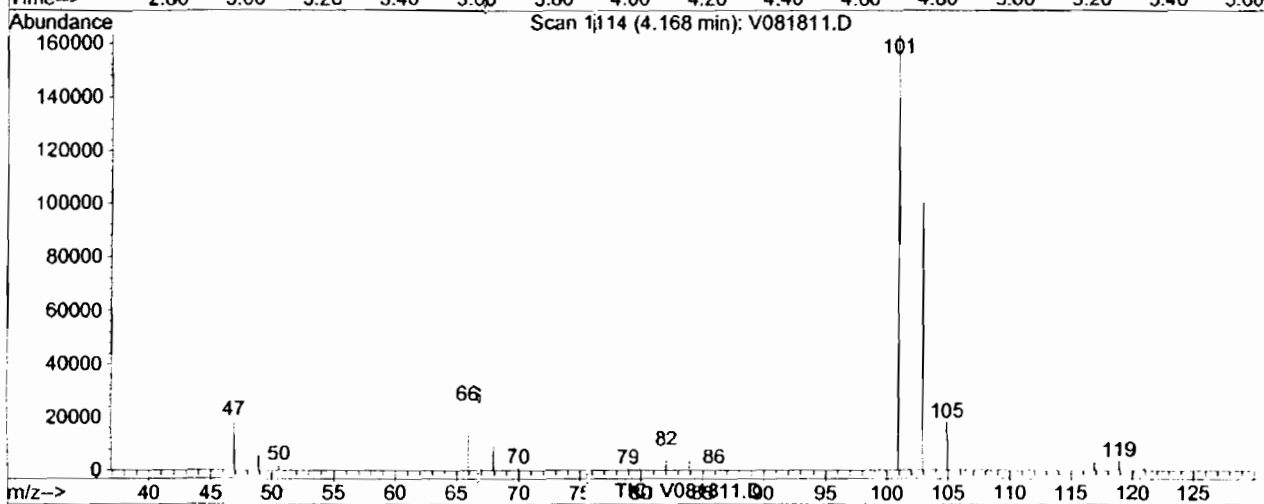
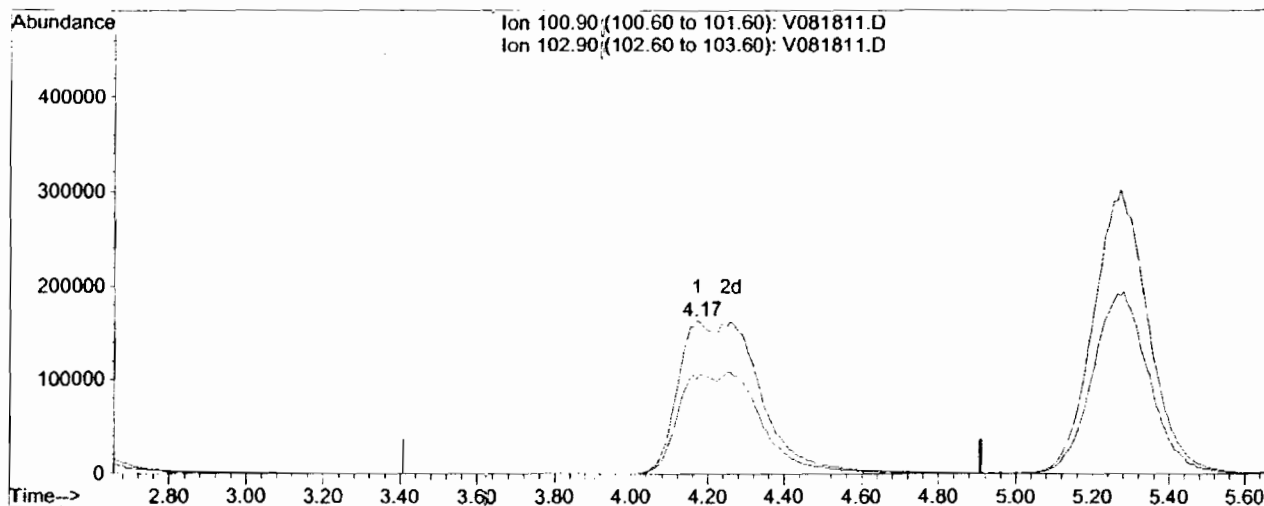


Quantitation Report

Data File : Z:\MSD\081805.B\081811.D
 Acq On : 18 Aug 2005 5:39 pm
 Sample : 018,,VBSPK
 Misc : VBSPK018|018,,VBLK|
 Quant Time: Aug 31 18:43 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Single Level Calibration



(7) Trichlorofluoromethane (T)

4.17min 51.01ug/l m

response 2443491

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	61.55
0.00	0.00	0.00
0.00	0.00	0.00

Data File : Z:\MSD\081805.B\081811.D
 Acq On : 18 Aug 2005 5:39 pm
 Sample : 018,,VBSPK
 Misc : VBSPK018|018,,VBLK|
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:43 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: Z:\MSD\081805.B\081808.D
 DataAcq Meth : 9510818

*DMD
8/31/05*

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.28	49	1763231	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4565387	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3888235	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	1932048	50.15	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery =	100.30%		
42) Toluene-d8	13.52	98	4443250	50.46	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery =	100.92%		
46) Bromofluorobenzene	17.77	95	3487622	50.69	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	101.38%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.62	85	1727429	49.46	ug/l	98
3) Chloromethane	2.83	50	878234	50.62	ug/l	97
4) Bromomethane	3.54	94	1109642	51.28	ug/l	97
5) Vinyl Chloride	3.06	62	941649	50.86	ug/l	98
6) Chloroethane	3.72	64	607789	49.47	ug/l	95
7) Trichlorofluoromethane	4.17	101	2443491	51.01	ug/l	
8) FC-113	5.27	101	3006301	49.74	ug/l	97
9) Methylene Chloride	6.27	84	1317752	49.41	ug/l	# 79
10) Acetone	5.34	43	246015	49.43	ug/l	97
11) Carbon Disulfide	5.62	76	2956196	48.51	ug/l	97
12) MTBE	6.88	73	2708105	48.28	ug/l	# 89
13) 1,1-Dichloroethene	5.18	96	1311591	49.40	ug/l	# 78
14) 1,1-Dichloroethane	7.70	63	2525848	46.61	ug/l	98
15) Methyl Acetate	6.09	43	604503	47.41	ug/l	# 89
16) trans-1,2-Dichloroethene	6.85	96	1433744	48.39	ug/l	# 77
17) cis-1,2-Dichloroethene	8.85	96	1411408	46.64	ug/l	# 81
18) Chloroform	9.46	83	3005092	46.67	ug/l	98
20) 1,2-Dichloroethane	10.44	62	2003169	45.81	ug/l	100
21) 2-Butanone	8.92	43	321967	46.21	ug/l	92
23) 1,1,1-Trichloroethane	9.75	97	2542937	47.14	ug/l	94
24) Carbon Tetrachloride	10.05	117	2522323	47.30	ug/l	100
25) Cyclohexane	9.83	56	2006164	48.58	ug/l	# 84
26) Bromodichloromethane	12.37	83	2731107	46.12	ug/l	99
27) 1,2-Dichloropropane	11.88	63	1557588	47.49	ug/l	98
28) cis-1,3-Dichloropropene	13.09	75	2079964	46.76	ug/l	100
29) Trichloroethene	11.51	130	1899155	47.04	ug/l	94
30) Benzene	10.40	78	3544752	47.52	ug/l	100
31) Methylcyclohexane	11.83	83	2110695	49.00	ug/l	# 82
32) Dibromochloromethane	14.93	129	2613468	48.32	ug/l	98
33) trans-1,3-Dichloropropene	14.00	75	1791670	47.95	ug/l	99
34) 1,1,2-Trichloroethane	14.29	97	1395168	49.00	ug/l	97
35) Bromoform	17.25	173	1980410	47.86	ug/l	95
37) 4-Methyl-2-Pentanone	13.35	43	945744	48.34	ug/l	91
38) 2-Hexanone	14.70	43	636718	48.34	ug/l	90
39) Tetrachloroethene	14.52	166	2606328	46.17	ug/l	97
40) 1,2-Dibromoethane	15.10	107	2308136	46.19	ug/l	100
41) 1,1,2,2-Tetrachloroethane	18.03	83	2033819	46.01	ug/l	98
43) Toluene	13.63	91	4386927	46.54	ug/l	99
44) Chlorobenzene	15.90	112	358674	46.57	ug/l	98

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Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081811.D

Vial: 6

Acq On : 18 Aug 2005 5:39 pm

Operator: DMD

Sample : 018,,VBSPK

Inst : MSD

Misc : VBSPK018|018,,VBLK|

Multiplr: 1.00

MS Integration Params: RTE\INT.P

Quant Time: Aug 31 18:43 19105

Quant Results File: 9510818.RES

Quant Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Aug 18 14:01:32 2005

Response via : Continuing Cal File: Z:\MSD\081805.B\081808.D

DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.09	91	5566284	46.98	ug/l	95
47) m,p-Xylene	16.27	91	9220321	93.68	ug/l	93
48) o-Xylene	16.92	91	4657409	46.86	ug/l	94
49) Styrene	16.95	104	2485973	46.49	ug/l #	80
50) Isopropylbenzene	17.53	105	5810653	46.59	ug/l	97
51) 1,3-Dichlorobenzene	19.58	146	3679419	47.19	ug/l	96
52) 1,4-Dichlorobenzene	19.73	146	3902831	46.60	ug/l	96
53) 1,2-Dichlorobenzene	20.35	146	3426657	46.21	ug/l	94
54) 1,2-Dibromo-3-Chloropropan	21.66	75	395701	44.00	ug/l #	77
55) 1,2,4-Trichlorobenzene	23.05	180	2691442	46.67	ug/l	99

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

V081811.D 9510818.M Wed Aug 31 18:45:34 2005

RPT1

Page 2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBSPK019

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: VBSPK019
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081904.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 8/19/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane	49		10
74-83-9	Bromomethane	50		10
75-01-4	Vinyl Chloride	51		10
75-00-3	Chloroethane	51		10
75-09-2	Methylene Chloride	56		10
67-64-1	Acetone	52	B	10
75-15-0	Carbon Disulfide	57		10
75-35-4	1,1-Dichloroethene	56		10
75-34-4	1,1-Dichloroethane	56		10
156-60-5	trans-1,2-Dichloroethene	59		10
540-59-0	cis-1,2-Dichloroethene	56		10
67-66-3	Chloroform	56		10
107-06-2	1,2-Dichloroethane	56		10
78-93-3	2-Butanone	54		10
71-55-6	1,1,1-Trichloroethane	55		10
56-23-5	Carbon Tetrachloride	56		10
75-27-4	Bromodichloromethane	55		10
78-87-5	1,2-Dichloropropane	55		10
10061-01-5	cis-1,3-Dichloropropene	55		10
79-01-6	Trichloroethene	55		10
71-43-2	Benzene	55		10
124-48-1	Dibromochloromethane	55		10
10061-02-6	trans-1,3-Dichloropropene	56		10
79-00-5	1,1,2-Trichloroethane	55		10
75-25-2	Bromoform	55		10
108-10-1	4-Methyl-2-Pentanone	50		10
591-78-6	2-Hexanone	50		10
127-18-4	Tetrachloroethene	54		10
79-34-5	1,1,2,2-Tetrachloroethane	53		10
108-88-3	Toluene	53		10
108-90-7	Chlorobenzene	56		10
100-41-4	Ethylbenzene	56		10
100-42-5	Styrene	53		10
1330-20-7	Xylenes, total	160		10

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NYSDOH 10142

NJDEP 73015

FORM 1 VOA

CTDOHS PH-0564

EPA NY049

PA 68-378

3/00

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

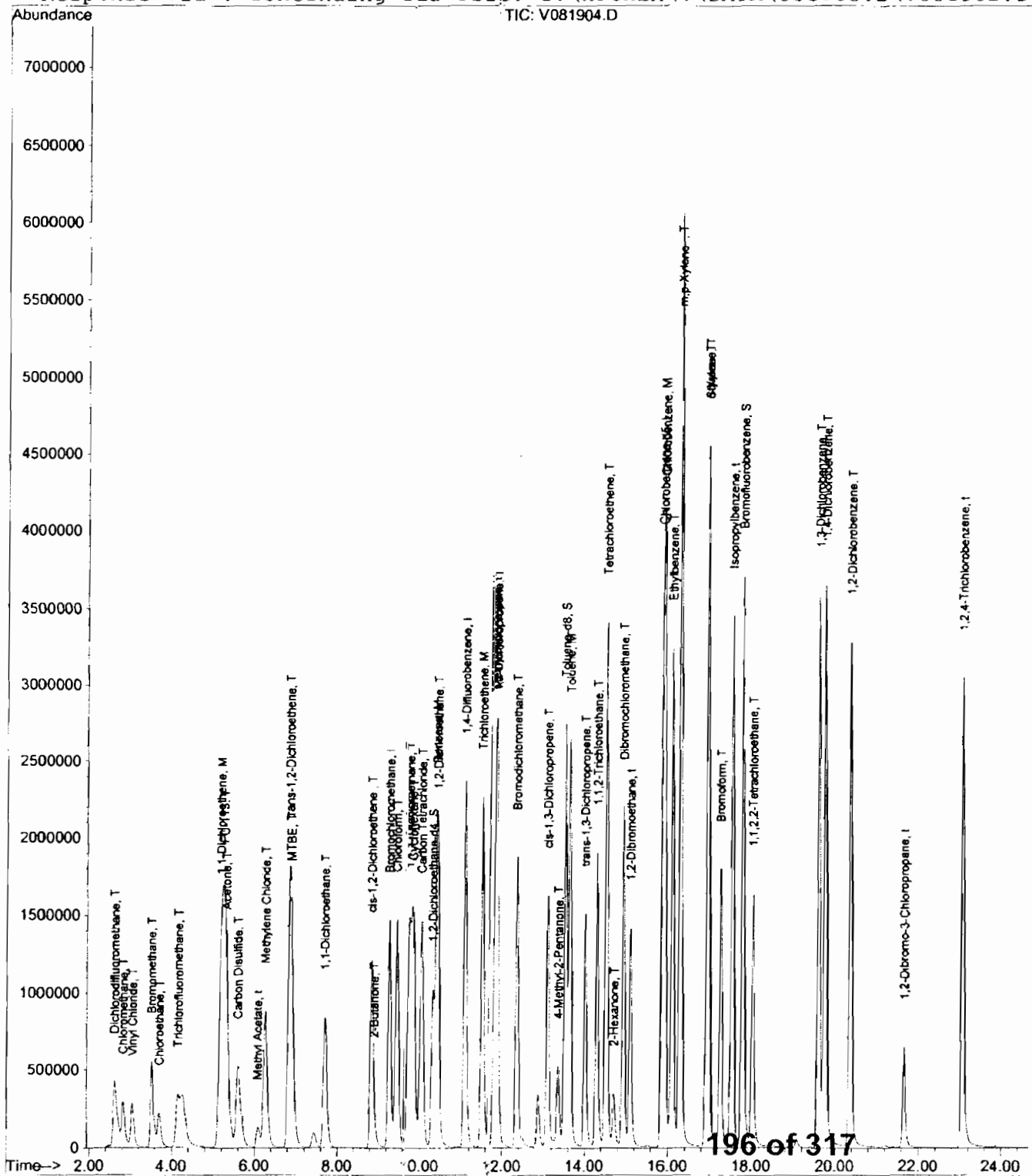
Quantitation Report

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Acq On : 19 Aug 2005 1:08 pm
Sample : 019,,VBSPK
Misc : VBSPK019|019,,V3LK|
MS Integration Params: RTEINT.P
Quant Time: Aug 31 18:29 19105

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\081902.D

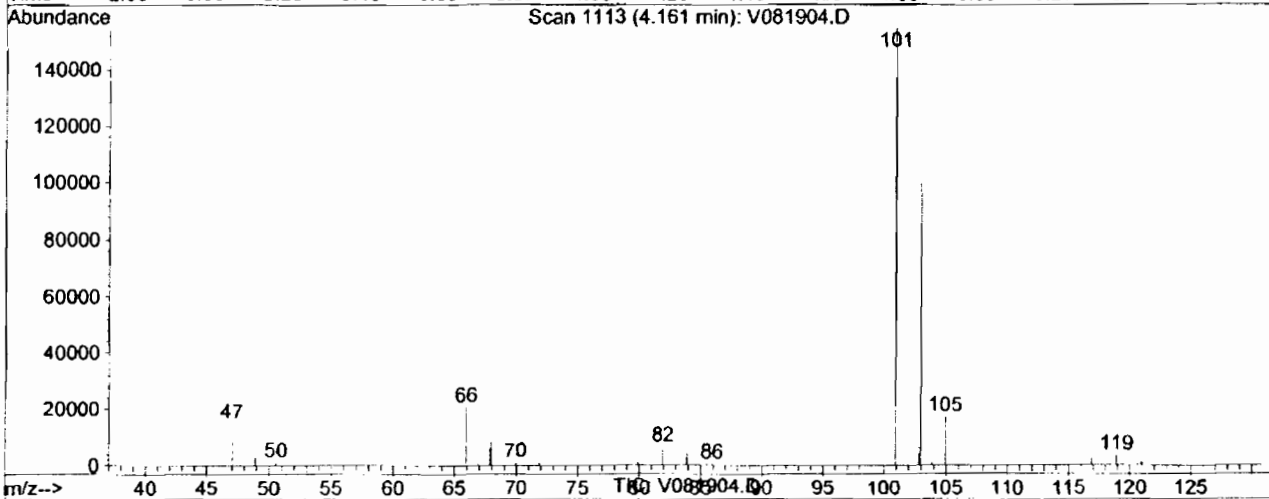
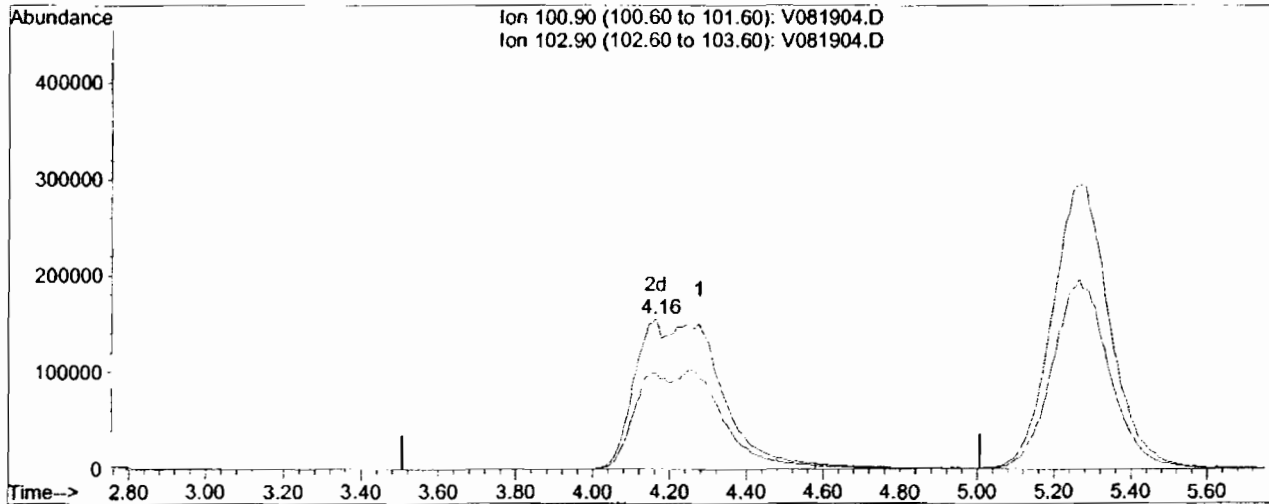


Quantitation Report

Data File : Z:\MSD\081905.B\081904.D
 Acq On : 19 Aug 2005 1:08 pm
 Sample : 019,,VBSPK
 Misc : VBSPK019|019,,VBLK|
 Quant Time: Aug 31 18:29 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Single Level Calibration



(7) Trichlorofluoromethane (T)

4.16min 48.63ug/l m

response 2379631

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081905.B\081904.D
 Acq On : 19 Aug 2005 1:08 pm
 Sample : 019,,VBSPK
 Misc : VBSPK019|019,,VBLK|
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:29 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.REV

Quant Method : C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\081902.D
 DataAcq Meth : 9510818

ampg 131105

Internal Standards	F.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1686810	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.10	114	4576594	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	3889943	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.32	65	1905618	50.32	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery =	100.64%		
42) Toluene-d8	13.52	98	4348902	47.57	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery =	95.14%		
46) Bromofluorobenzene	17.78	95	3264595	47.75	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	95.50%		

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.62	85	1631555	49.14	ug/l	99
3) Chloromethane	2.82	50	795054	48.73	ug/l	99
4) Bromomethane	3.52	94	1072083	50.11	ug/l	97
5) Vinyl Chloride	3.05	62	904060	51.04	ug/l	100
6) Chloroethane	3.71	64	614733	50.93	ug/l	98
7) Trichlorofluoromethane	4.16	101	2379631m	48.63	ug/l	
8) FC-113	5.27	101	3034370	55.95	ug/l	98
9) Methylene Chloride	6.27	84	1329273	55.64	ug/l #	80
10) Acetone	5.32	43	253377	52.07	ug/l	99
11) Carbon Disulfide	5.59	76	2892354	57.08	ug/l	100
12) MTBE	6.89	73	2692636	58.81	ug/l #	89
13) 1,1-Dichloroethene	5.17	96	1290965	56.44	ug/l #	81
14) 1,1-Dichloroethane	7.70	63	2516313	56.24	ug/l	98
15) Methyl Acetate	6.08	43	616979	57.21	ug/l #	88
16) trans-1,2-Dichloroethene	6.85	96	1451144	58.98	ug/l #	82
17) cis-1,2-Dichloroethene	8.85	96	1430528	56.23	ug/l #	84
18) Chloroform	9.46	83	3052045	55.74	ug/l	98
20) 1,2-Dichloroethane	10.44	62	2048562	55.59	ug/l	99
21) 2-Butanone	8.92	43	342464	54.31	ug/l #	90
23) 1,1,1-Trichloroethane	9.75	97	2557625	55.22	ug/l	98
24) Carbon Tetrachloride	10.05	117	2610908	55.88	ug/l	96
25) Cyclohexane	9.84	56	1988302	54.99	ug/l	86
26) Bromodichloromethane	12.37	83	2796873	54.87	ug/l	99
27) 1,2-Dichloropropane	11.89	63	1546889	54.58	ug/l	99
28) cis-1,3-Dichloropropene	13.10	75	2103677	55.04	ug/l	95
29) Trichloroethene	11.52	130	1940098	54.94	ug/l	96
30) Benzene	10.40	78	3547762	55.19	ug/l	100
31) Methylcyclohexane	11.83	83	2099727	56.06	ug/l #	84
32) Dibromochloromethane	14.93	129	2723274	55.28	ug/l	98
33) trans-1,3-Dichloropropene	14.00	75	1828735	55.63	ug/l	99
34) 1,1,2-Trichloroethane	14.30	97	1414572	54.78	ug/l	97
35) Bromoform	17.26	173	1954775	54.63	ug/l	96
37) 4-Methyl-2-Pentanone	13.36	43	961932	49.60	ug/l	94
38) 2-Hexanone	14.70	43	638772	49.76	ug/l	88
39) Tetrachloroethene	14.52	166	2737052	53.78	ug/l	97
40) 1,2-Dibromoethane	15.10	107	2367658	53.05	ug/l	100
41) 1,1,2,2-Tetrachloroethane	13.03	83	2003518	52.52	ug/l	96
43) Toluene	13.63	91	4438524	52.77	ug/l	98
44) Chlorobenzene	15.91	112	36982198 of 317	52.77	ug/l	97

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

V081904.D 9510818.M

Wed Aug 31 18:34:13 2005

RPT1

Page 1

Data File : Z:\MSD\081905.B\V081904.D
Acq On : 19 Aug 2005 1:08 pm
Sample : 019,,VBSPK
Misc : VBSPK019|019,,VBLK|
MS Integration Params: RTEINT.P
Quant Time: Aug 31 18:29 19105

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\DATA\081905.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081905.B\V081902.D
DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.09	91	5625271	55.89	ug/l	94
47) m,p-Xylene	16.28	91	8976034	106.67	ug/l	95
48) o-Xylene	16.93	91	4535185	53.48	ug/l	97
49) Styrene	16.95	104	2426664	52.73	ug/l #	82
50) Isopropylbenzene	17.54	105	5786407	54.46	ug/l	97
51) 1,3-Dichlorobenzene	19.59	146	3623428	53.61	ug/l	96
52) 1,4-Dichlorobenzene	19.74	146	3897827	53.25	ug/l	94
53) 1,2-Dichlorobenzene	20.36	146	3395531	53.08	ug/l	92
54) 1,2-Dibromo-3-Chloropropan	21.65	75	389873	53.25	ug/l	80
55) 1,2,4-Trichlorobenzene	23.06	180	2670294	54.03	ug/l	99

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7D-DMS

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-003MS
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081823.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. Date Analyzed: 8/18/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane	47		10
74-83-9	Bromomethane	47		10
75-01-4	Vinyl Chloride	47		10
75-00-3	Chloroethane	46		10
75-09-2	Methylene Chloride	45		10
67-64-1	Acetone	51	B	10
75-15-0	Carbon Disulfide	43		10
75-35-4	1,1-Dichloroethene	45		10
75-34-4	1,1-Dichloroethane	44		10
156-60-5	trans-1,2-Dichloroethene	43		10
540-59-0	cis-1,2-Dichloroethene	74		10
67-66-3	Chloroform	44		10
107-06-2	1,2-Dichloroethane	260	E	10
78-93-3	2-Butanone	51	B	10
71-55-6	1,1,1-Trichloroethane	44		10
56-23-5	Carbon Tetrachloride	44		10
75-27-4	Bromodichloromethane	44		10
78-87-5	1,2-Dichloropropane	45		10
10061-01-5	cis-1,3-Dichloropropene	43		10
79-01-6	Trichloroethene	46		10
71-43-2	Benzene	50		10
124-48-1	Dibromochloromethane	47		10
10061-02-6	trans-1,3-Dichloropropene	46		10
79-00-5	1,1,2-Trichloroethane	48		10
75-25-2	Bromoform	49		10
108-10-1	4-Methyl-2-Pentanone	52	B	10
591-78-6	2-Hexanone	52		10
127-18-4	Tetrachloroethene	43		10
79-34-5	1,1,2,2-Tetrachloroethane	48		10
108-88-3	Toluene	44		10
108-90-7	Chlorobenzene	43		10
100-41-4	Ethylbenzene	44		10
100-42-5	Styrene	41		10
1330-20-7	Xylenes, total	130		10

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SEVERN
TRENT **STL**

NYSDOH 10142

NJDEP 73015

FORM 1/VOA

CT/DOH PH-0654

EPA NY049

PA 68-378

3/90

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

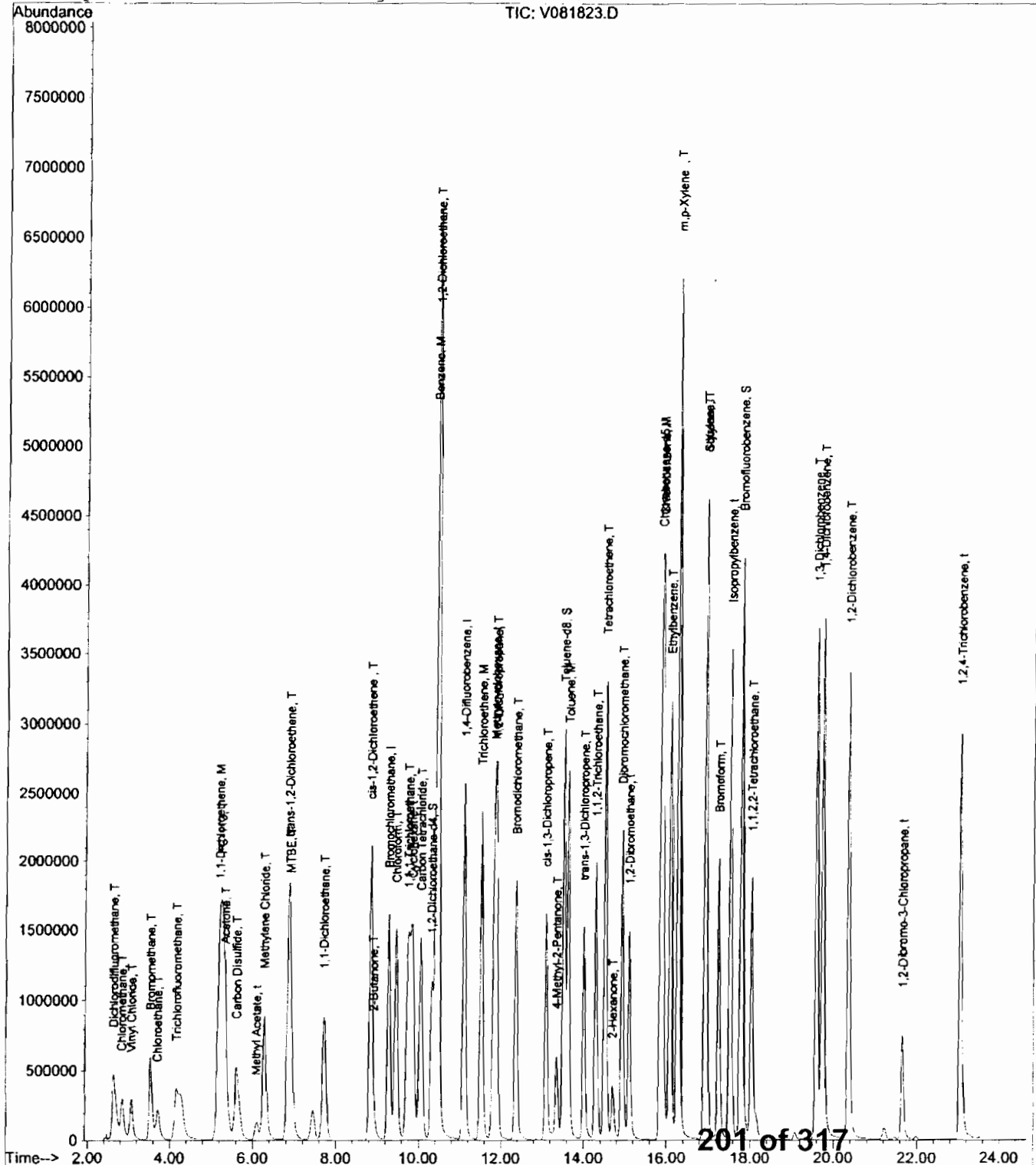
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 Sample : 251041-003,,MS,
 Misc : MW7D-DMS|018,,VBLK|MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:44 19105

Vial: 4
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: Z:\MSD\081805.B\V081808.D



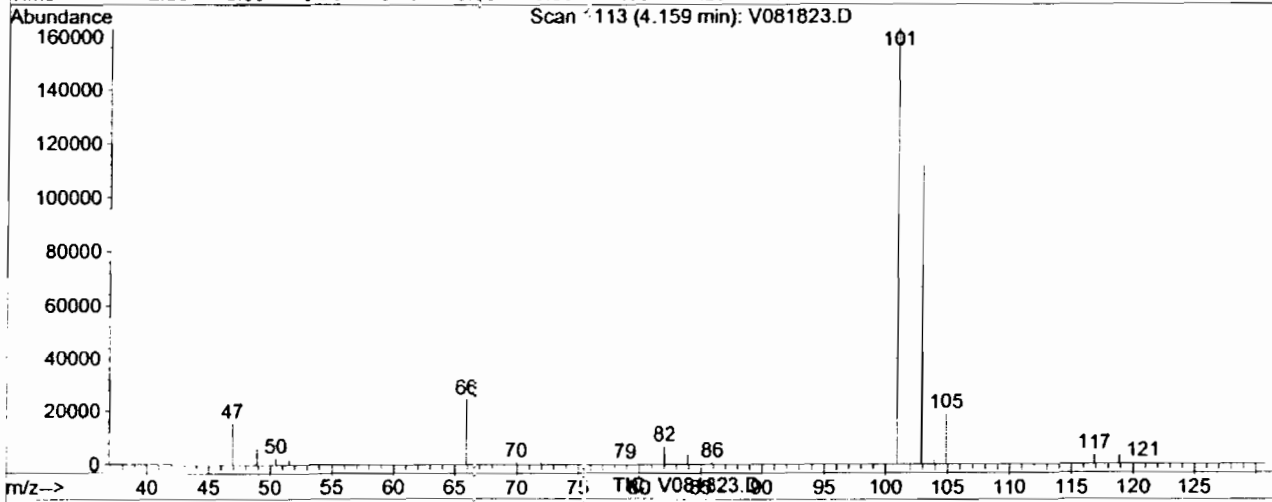
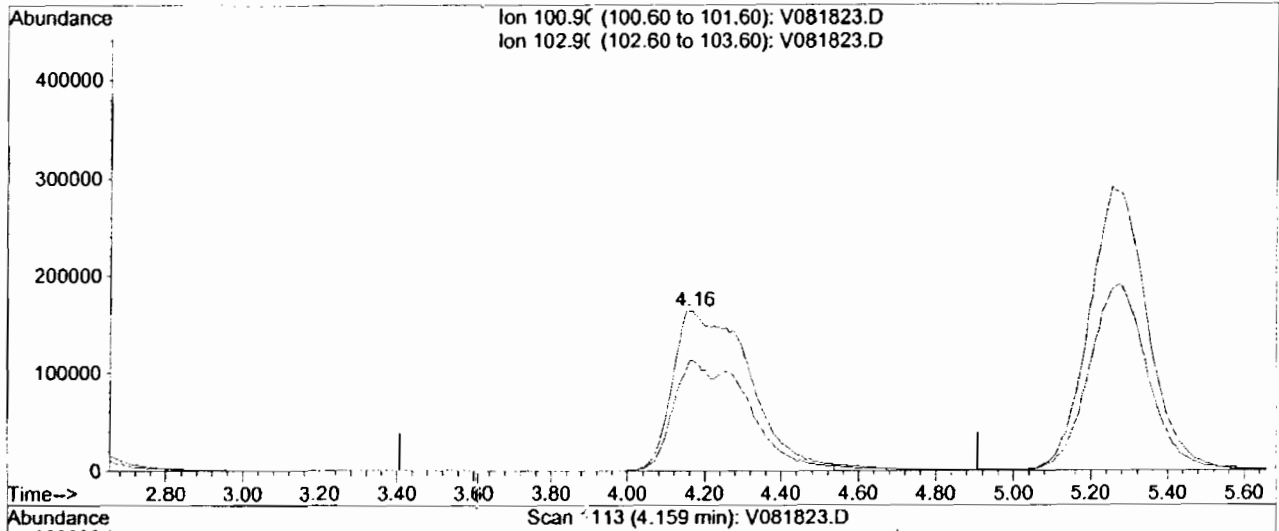
201 of 317

Quantitation Report

Data File : Z:\MSD\081805.B\V081823.D
 Acq On : 18 Aug 2005 11:51 pm
 Sample : 251041-003,,MS,
 Misc : MW7D-DMS\018,,VBLK\MACTEC 95.1
 Quant Time: Aug 31 18:44 19105

Vial: 4
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00
 Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Single Level Calibration



(7) Trichlorofluoromethane (T)

4.16min 45.06ug/l m

response 2327836

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	68.50
0.00	0.00	0.00
0.00	0.00	0.00

Data File : Z:\MSD\081805.B\081823.D
 Acq On : 18 Aug 2005 11:51 pm
 Sample : 251041-003,,MS,
 Misc : MW7D-DMS|018,,VBLK|MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:44 19105

Vial: 4
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: Z:\MSD\081805.B\081808.D
 DataAcq Meth : 9510818

DMG 31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1901390	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4935567	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.86	117	4181318	50.00	ug/l	0.00

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	2023926	48.72	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	97.44%
42) Toluene-d8	13.51	98	4713307	49.78	ug/l	-0.02
Spiked Amount	50.000	Range	88 - 110	Recovery	=	99.56%
46) Bromofluorobenzene	17.77	95	3762564	50.85	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	101.70%

Target Compounds

Qvalue

2) Dichlorodifluoromethane	2.62	85	1654672	43.93	ug/l	99
3) Chloromethane	2.83	50	874812	46.76	ug/l	99
4) Bromomethane	3.53	94	1090585	46.74	ug/l	100
5) Vinyl Chloride	3.07	62	944647	47.32	ug/l	98
6) Chloroethane	3.71	64	613298	46.29	ug/l	93
7) Trichlorofluoromethane	4.16	101	2327836	45.06	ug/l	
8) FC-113	5.25	101	3009069	46.16	ug/l	96
9) Methylene Chloride	6.27	84	1296616	45.09	ug/l	# 79
10) Acetone	5.34	43	274149	51.08	ug/l	97
11) Carbon Disulfide	5.61	76	2854789	43.44	ug/l	99
12) MTBE	6.89	73	2770848	45.81	ug/l	# 90
13) 1,1-Dichloroethene	5.18	96	1296521	45.29	ug/l	# 81
14) 1,1-Dichloroethane	7.70	63	2599372	44.48	ug/l	99
15) Methyl Acetate	6.09	43	636528	46.30	ug/l	# 86
16) trans-1,2-Dichloroethene	6.85	96	1379841	43.19	ug/l	# 81
17) cis-1,2-Dichloroethene	8.84	96	2428199	74.41	ug/l	# 81
18) Chloroform	9.46	83	3054587	43.99	ug/l	99
20) 1,2-Dichloroethane	10.44	62	12040445	255.36	ug/l	97
21) 2-Butanone	8.92	43	381396	50.77	ug/l	93
23) 1,1,1-Trichloroethane	9.74	97	2565687	44.00	ug/l	96
24) Carbon Tetrachloride	10.05	117	2542243	44.10	ug/l	98
25) Cyclohexane	9.84	56	1951948	43.72	ug/l	85
26) Bromodichloromethane	12.37	83	2814194	43.96	ug/l	97
27) 1,2-Dichloropropane	11.89	63	1587090	44.76	ug/l	97
28) cis-1,3-Dichloropropene	13.09	75	2066056	42.97	ug/l	99
29) Trichloroethene	11.52	130	2016799	46.21	ug/l	96
30) Benzene	10.40	78	4071138	50.49	ug/l	100
31) Methylcyclohexane	11.83	83	2049363	44.01	ug/l	# 82
32) Dibromochloromethane	14.92	129	2769005	47.35	ug/l	98
33) trans-1,3-Dichloropropene	14.00	75	1865549	46.18	ug/l	100
34) 1,1,2-Trichloroethane	14.29	97	1485585	48.26	ug/l	98
35) Bromoform	17.25	173	2207714	49.35	ug/l	94
37) 4-Methyl-2-Pentanone	13.35	43	1090570	51.84	ug/l	94
38) 2-Hexanone	14.70	43	734559	51.86	ug/l	90
39) Tetrachloroethene	14.52	166	2596979	42.78	ug/l	98
40) 1,2-Dibromoethane	15.10	107	2495467	46.44	ug/l	100
41) 1,1,2,2-Tetrachloroethane	18.03	83	2304163	48.47	ug/l	95
43) Toluene	13.62	91	4446020	43.86	ug/l	100
44) Chlorobenzene	15.90	112	3612670	41.47	ug/l	98

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Data File : Z:\MSD\081805.B\081823.D
Acq On : 18 Aug 2005 11:51 pm
Sample : 251041-003,,M3,
Misc : MW7D-DMSI018,,VBLK|MACTEC 95.1
MS Integration Params: RTEINT.P
Quant Time: Aug 31 18:44 19105

Vial: 4
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: Z:\MSD\081805.B\081808.D
DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	6.08	91	5547350	43.54	ug/l	96
47) m,p-Xylene	6.27	91	9213640	87.05	ug/l	93
48) o-Xylene	6.92	91	4685164	43.83	ug/l	94
49) Styrene	6.94	104	2361062	41.06	ug/l #	77
50) Isopropylbenzene	7.53	105	5814253	43.35	ug/l	98
51) 1,3-Dichlorobenzene	9.58	146	3618685	43.16	ug/l	95
52) 1,4-Dichlorobenzene	9.73	146	3944623	43.80	ug/l #	92
53) 1,2-Dichlorobenzene	20.36	146	3488066	43.74	ug/l	96
54) 1,2-Dibromo-3-Chloropropan	21.66	75	459849	47.55	ug/l	80
55) 1,2,4-Trichlorobenzene	23.05	180	2556770	41.23	ug/l	99

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW7D-DMSD

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-003MSD
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081824.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. _____ Date Analyzed: 8/19/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane	49		10
74-83-9	Bromomethane	49		10
75-01-4	Vinyl Chloride	49		10
75-00-3	Chloroethane	49		10
75-09-2	Methylene Chloride	47		10
67-64-1	Acetone	55	B	10
75-15-0	Carbon Disulfide	46		10
75-35-4	1,1-Dichloroethene	48		10
75-34-4	1,1-Dichloroethane	46		10
156-60-5	trans-1,2-Dichloroethene	45		10
540-59-0	cis-1,2-Dichloroethene	77		10
67-66-3	Chloroform	46		10
107-06-2	1,2-Dichloroethane	260	E	10
78-93-3	2-Butanone	53	B	10
71-55-6	1,1,1-Trichloroethane	47		10
56-23-5	Carbon Tetrachloride	47		10
75-27-4	Bromodichloromethane	47		10
78-87-5	1,2-Dichloropropane	47		10
10061-01-5	cis-1,3-Dichloropropene	46		10
79-01-6	Trichloroethene	48		10
71-43-2	Benzene	53		10
124-48-1	Dibromochloromethane	51		10
10061-02-6	trans-1,3-Dichloropropene	49		10
79-00-5	1,1,2-Trichloroethane	51		10
75-25-2	Bromoform	53		10
108-10-1	4-Methyl-2-Pentanone	58	B	10
591-78-6	2-Hexanone	56		10
127-18-4	Tetrachloroethene	45		10
79-34-5	1,1,2,2-Tetrachloroethane	52		10
108-88-3	Toluene	46		10
108-90-7	Chlorobenzene	46		10
100-41-4	Ethylbenzene	46		10
100-42-5	Styrene	39		10
1330-20-7	Xylenes, total	140		10

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NYSDOH 10142

NJDEP 73015

FORM 1 VOA

CTDOHS PH-0554

EPA NY049

PA 68-378

3/00

M-NY049

STL Newburgh
 315 Fullerton Avenue
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 Fax (845) 562-0841

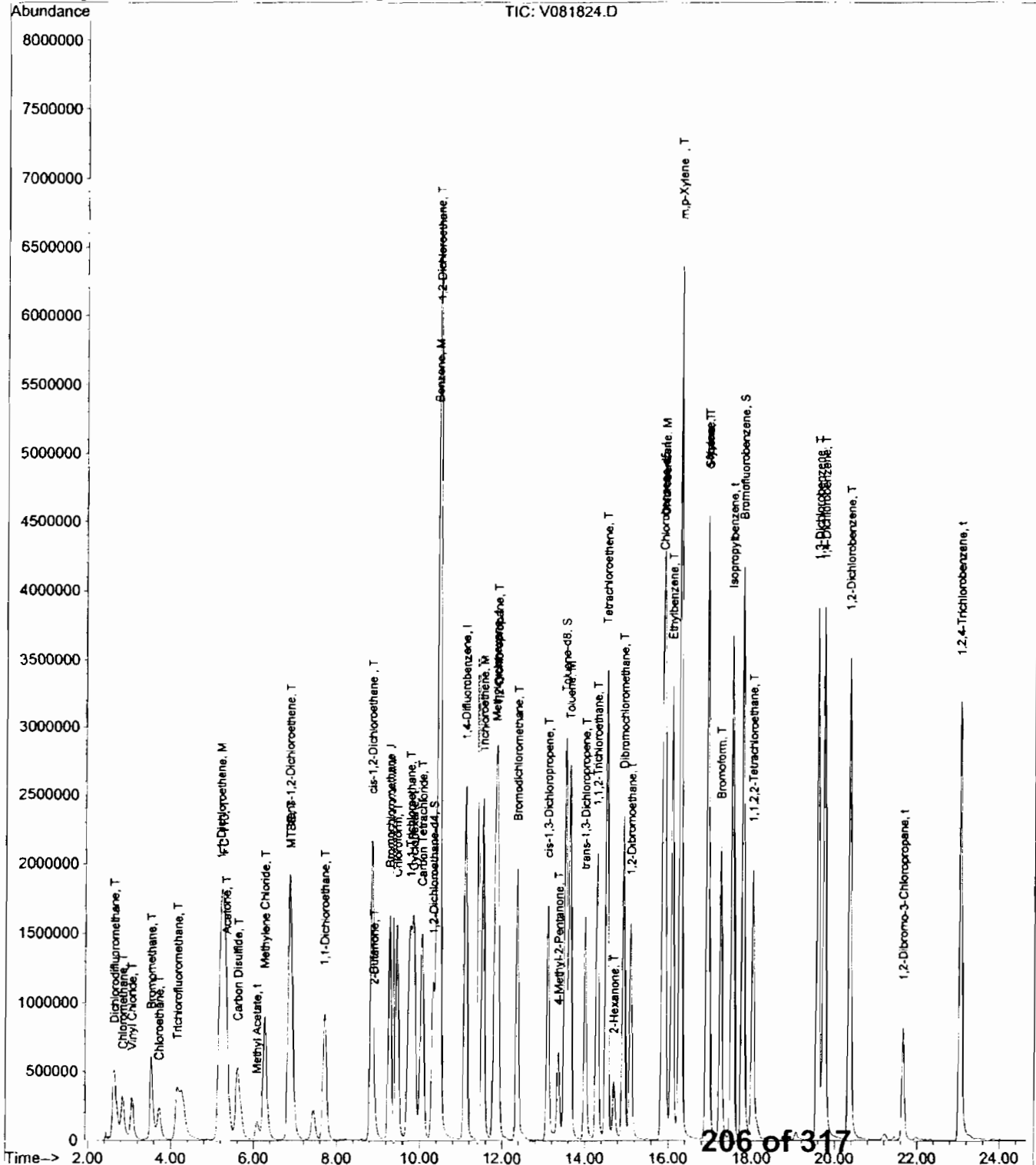
Quantitation Report

Data File : Z:\MSD\081805.B\V081824.D
 Acq On : 19 Aug 2005 12:21 am
 Sample : 251041-003,,MSD,
 Misc : MW7D-DMSD1018,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:44 19105

Vial: 5
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: Z:\MSD\081805.B\V081808.D



Quantitation Report

Data File : Z:\MSD\081805.B\V081824.D

Vial: 5

Acq On : 19 Aug 2005 12:21 am

Operator: DMD

Sample : 251041-003,,MSD,

Inst : MSD

Misc : MW7D-DMSD\018,,VBLK\MACTEC 95.1

Multiplr: 1.00

Quant Time: Aug 31 18:44 19105

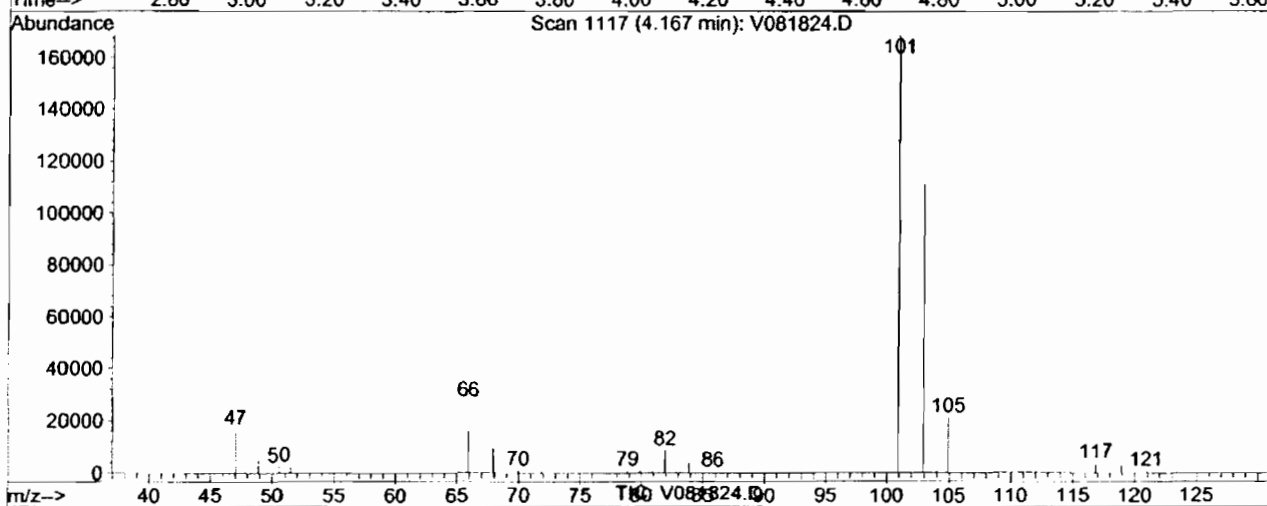
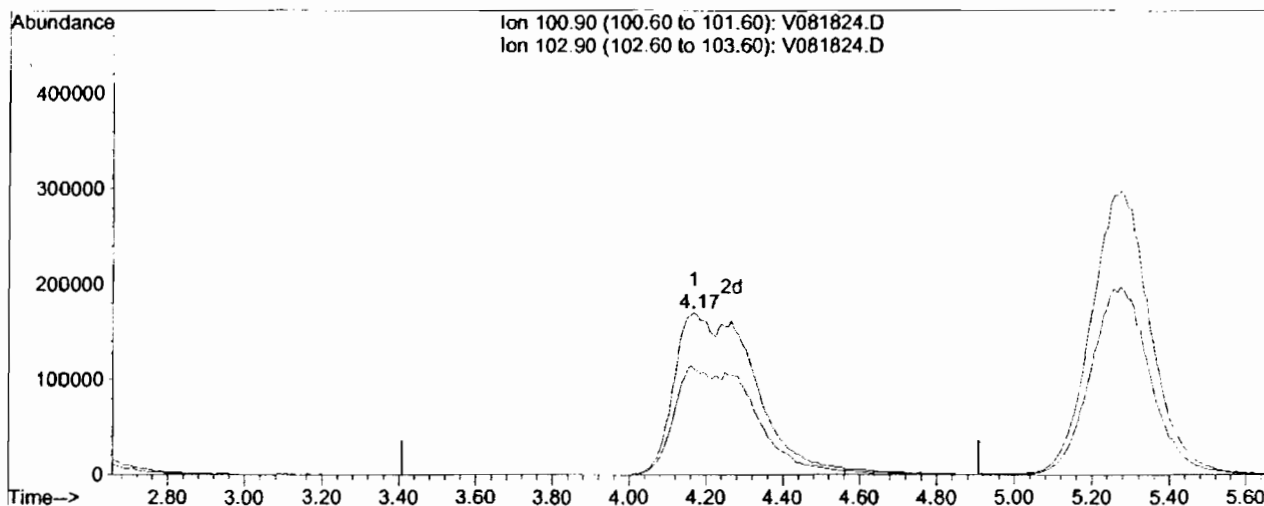
Quant Results File: temp.res

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Aug 18 14:01:32 2005

Response via : Single Level Calibration



(7) Trichlorofluoromethane (T)

4.17min 48.34ug/l m

response 2498941

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	65.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081824.D
 Acq On : 19 Aug 2005 12:21 am
 Sample : 251041-003,,MSD,
 Misc : MW7D-DMSD\018,,VBLK\MACTEC 95.1
 MS Integration Params: RTEINT.P
 Quant Time: Aug 31 18:44 19105

Vial: 5
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9510818.RE

Quant Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)

Title : Method 91.1, 824C, and 624 waters.

Last Update : Thu Aug 18 14:01:32 2005

Response via : Continuing Cal File: Z:\MSD\081805.B\081808.D

DataAcq Meth : 9510818

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.28	49	1902599	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4859622	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.85	117	4123153	50.00	ug/l	-0.02

System Monitoring Compounds

19) 1,2-Dichloroethane-d4	10.31	65	2030734	48.85	ug/l	0.00
Spiked Amount	50.000	Range	76 - 114	Recovery	=	97.70%
42) Toluene-d8	13.51	98	4680665	50.13	ug/l	-0.02
Spiked Amount	50.000	Range	88 - 110	Recovery	=	100.26%
46) Bromofluorobenzene	17.77	95	3720085	50.99	ug/l	0.00
Spiked Amount	50.000	Range	86 - 115	Recovery	=	101.98%

Target Compounds

Qvalue

2) Dichlorodifluoromethane	2.63	85	1768159	46.91	ug/l	99
3) Chloromethane	2.84	50	920016	49.15	ug/l	98
4) Bromomethane	3.54	94	1149013	49.21	ug/l	99
5) Vinyl Chloride	3.06	62	970931	48.60	ug/l	96
6) Chloroethane	3.72	64	645930	48.72	ug/l	95
7) Trichlorofluoromethane	4.17	101	2498941m	48.34	ug/l	
8) FC-113	5.27	101	3126276	47.93	ug/l	97
9) Methylene Chloride	6.27	84	1352976	47.02	ug/l	# 84
10) Acetone	5.34	43	294026	54.75	ug/l	98
11) Carbon Disulfide	5.62	76	3027504	46.04	ug/l	98
12) MTBE	6.88	73	2954154	48.81	ug/l	# 88
13) 1,1-Dichloroethene	5.19	96	1360671	47.50	ug/l	# 80
14) 1,1-Dichloroethane	7.70	63	2716513	46.46	ug/l	98
15) Methyl Acetate	6.08	43	644781	46.87	ug/l	# 89
16) trans-1,2-Dichloroethene	6.85	96	1445762	45.22	ug/l	# 79
17) cis-1,2-Dichloroethene	8.85	96	2510618	76.88	ug/l	# 84
18) Chloroform	9.45	83	3173407	45.67	ug/l	96
20) 1,2-Dichloroethane	10.44	62	12051672	255.43	ug/l	99
21) 2-Butanone	8.91	43	397068	52.82	ug/l	# 87
23) 1,1,1-Trichloroethane	9.75	97	2691142	46.87	ug/l	96
24) Carbon Tetrachloride	10.05	117	2642865	46.56	ug/l	98
25) Cyclohexane	9.84	56	2073478	47.17	ug/l	# 84
26) Bromodichloromethane	12.36	83	2944667	46.71	ug/l	99
27) 1,2-Dichloropropane	11.88	63	1649853	47.25	ug/l	100
28) cis-1,3-Dichloropropene	13.09	75	2196195	46.39	ug/l	96
29) Trichloroethene	11.52	130	2071319	48.20	ug/l	95
30) Benzene	10.40	78	4226442	53.23	ug/l	100
31) Methylcyclohexane	11.83	83	2175131	47.44	ug/l	# 82
32) Dibromochloromethane	14.92	129	2948627	51.21	ug/l	98
33) trans-1,3-Dichloropropene	13.99	75	1945759	48.92	ug/l	99
34) 1,1,2-Trichloroethane	14.29	97	1556928	51.37	ug/l	97
35) Bromoform	17.24	173	2353443	53.43	ug/l	96
37) 4-Methyl-2-Pentanone	13.34	43	1194334	57.57	ug/l	90
38) 2-Hexanone	14.69	43	781658	55.96	ug/l	88
39) Tetrachloroethene	14.51	166	2697244	45.06	ug/l	97
40) 1,2-Dibromoethane	15.10	107	2610997	49.27	ug/l	99
41) 1,1,2,2-Tetrachloroethane	18.02	83	2418318	51.59	ug/l	94
43) Toluene	13.62	91	4607564	46.09	ug/l	98
44) Chlorobenzene	15.90	112	3743944	43.74	ug/l	98

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

V081824.D 9510818.M

Wed Aug 31 18:46:03 2005

RPT1

Page 1

Data File : Z:\MSD\081805.B\V081824.D
Acq On : 19 Aug 2005 12:21 am
Sample : 251041-003,,MSD,
Misc : MW7D-DMSD\018,,VBLK\MACTEC 95.1
MS Integration Params: RTEINT.P
Quant Time: Aug 31 18:44 19105

Vial: 5
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9510818.RES

Quant Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Last Update : Thu Aug 18 14:01:32 2005
Response via : Continuing Cal File: Z:\MSD\081805.B\V081808.D
DataAcq Meth : 9510818

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) Ethylbenzene	16.09	91	5793926	46.11	ug/l	94
47) m,p-Xylene	16.27	91	9472677	90.76	ug/l	95
48) o-Xylene	16.91	91	4845831	45.98	ug/l	95
49) Styrene	16.94	104	2212442	39.01	ug/l #	76
50) Isopropylbenzene	17.52	105	6050555	45.75	ug/l	97
51) 1,3-Dichlorobenzene	19.58	146	3792442	45.87	ug/l	96
52) 1,4-Dichlorobenzene	19.72	146	4045242	45.55	ug/l	95
53) 1,2-Dichlorobenzene	20.35	146	3623868	46.08	ug/l	94
54) 1,2-Dibromo-3-Chloropropan	21.65	75	504800	52.94	ug/l #	78
55) 1,2,4-Trichlorobenzene	23.05	180	2782781	45.51	ug/l	99

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

	EPA SAMPLE NO.	SMC1 (BFB) #	TOT OUT
01	VBLK017	97	0
02	VSBLK010	102	0
03	VBSPK017	101	0
04	VLCS010	101	0
05	TRIP BLANK	99	0
06	SARNEY	99	0
07	EMERSON	102	0
08	HURLBERT	104	0
09	TAYLOR	103	0
10	151 BHR	105	0
11	151 BHRMS	111	0
12	151 BHRMSD	107	0

QC LIMITS

SMC1 (BFB) = Bromofluorobenzene

(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3BS
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix Spike - EPA Sample No. VBSPK017

COMPOUND	SPIKE ADDED (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	5.3	106	60 - 140
1,2-Dichloroethane	5.0	5.2	104	60 - 140
Carbon Tetrachloride	5.0	5.0	100	60 - 140
1,2-Dichloropropane	5.0	5.2	104	60 - 140
cis-1,3-Dichloropropene	5.0	5.3	106	60 - 140
Trichloroethene	5.0	5.1	102	60 - 140
Benzene	5.0	5.1	102	60 - 140
1,1,2-Trichloroethane	5.0	5.2	104	60 - 140
Tetrachloroethene	5.0	5.0	100	60 - 140
1,2-Dibromoethane	5.0	5.1	102	60 - 140
Bromoform	5.0	5.3	106	60 - 140
1,4-Dichlorobenzene	5.0	5.2	104	60 - 140

Column to be used to flag recovery values with an asterisk

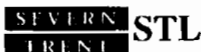
* Values outside of QC limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

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NYSOCH 10142

NJDEP 73015

FORM III VOA-BS
CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

3BS
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix Spike - EPA Sample No. VLCS010

COMPOUND	SPIKE ADDED (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0	0 *	60 - 140
1,2-Dichloroethane	5.0	6.6	132	60 - 140
Carbon Tetrachloride	5.0	6.1	122	60 - 140
1,2-Dichloropropane	5.0	6.6	132	60 - 140
cis-1,3-Dichloropropene	5.0	6.3	126	60 - 140
Trichloroethene	5.0	6.2	124	60 - 140
Benzene	5.0	6.4	128	60 - 140
1,1,2-Trichloroethane	5.0	6.6	132	60 - 140
Tetrachloroethene	5.0	6.4	128	60 - 140
1,2-Dibromoethane	5.0	6.5	130	60 - 140
Bromoform	5.0	6.4	128	60 - 140
1,4-Dichlorobenzene	5.0	6.3	126	60 - 140

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 12 outside limits

COMMENTS: _____

212 of 317

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STL

NYSDOH 10142

NJDEP 73015

FORM ILV OA-BS
CTD/HS PH-0354

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix Spike - EPA Sample No 151 BHR

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0	4.8	96	60 - 140
1,2-Dichloroethane	5.0	0	5.8	116	60 - 140
Carbon Tetrachloride	5.0	0	4.7	94	60 - 140
1,2-Dichloropropane	5.0	0	5.3	106	60 - 140
cis-1,3-Dichloropropene	5.0	0	5.5	110	60 - 140
Trichloroethene	5.0	0	4.8	96	60 - 140
Benzene	5.0	0	5.0	100	60 - 140
1,1,2-Trichloroethane	5.0	0	5.5	110	60 - 140
Tetrachloroethene	5.0	0	4.5	90	60 - 140
1,2-Dibromoethane	5.0	0	5.5	110	60 - 140
Bromoform	5.0	0	5.8	116	60 - 140
1,4-Dichlorobenzene	5.0	0	5.1	102	60 - 140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Vinyl Chloride	5.0	4.7	94	2	25 60 - 140
1,2-Dichloroethane	5.0	5.8	116	0	25 60 - 140
Carbon Tetrachloride	5.0	4.6	92	2	25 60 - 140
1,2-Dichloropropane	5.0	5.3	106	0	25 60 - 140
cis-1,3-Dichloropropene	5.0	5.5	110	0	25 60 - 140
Trichloroethene	5.0	4.7	94	2	25 60 - 140
Benzene	5.0	4.9	98	2	25 60 - 140
1,1,2-Trichloroethane	5.0	5.6	112	2	25 60 - 140
Tetrachloroethene	5.0	4.5	90	0	25 60 - 140
1,2-Dibromoethane	5.0	5.6	112	2	25 60 - 140
Bromoform	5.0	6.0	120	3	25 60 - 140
1,4-Dichlorobenzene	5.0	5.2	104	2	25 60 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS: _____

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NYSDOH 10142

NJDEP 73015

FORM III VOA-1
CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

4A

EPA SAMPLE NO.

VOLATILE METH-OD BLANK SUMMARY

VBLK017

Lab Name: STL Newburgh Contract:
Lab Code: 10142 Case No.: SAS No.: SDG No.: 251041
Lab File ID: V081713.D Lab Sample ID: VBLK017
Date Analyzed: 8/17/2005 Time Analyzed: 19:42
GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N
Instrument ID: MSD

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSBLK010	VSBLK010	V081714.D	20:16
02	VBSPK017	VBSPK017	V081715.D	20:48
03	VLCS010	017VLCS	V081716.D	21:20
04	TRIP BLANK	251041-Q01	V081717.D	21:53
05	SARNEY	251041-Q12	V081718.D	22:25
06	EMERSON	251041-Q13	V081719.D	22:57
07	HURLBERT	251041-Q14	V081720.D	23:29
08	TAYLOR	251041-Q15	V081721.D	0:01
09	151 BHR	251041-Q16	V081722.D	0:34
10	151 BHRMS	251041-Q16MS	V081723.D	1:06
11	151 BHRMSD	251041-Q16MSD	V081724.D	1:39

COMMENTS

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SEVERN
TRENT

Page 1 of 1

FORM IV VOA

NYSDOH 10142

NJDEP 73015

CTDOH PH-0554

EPA NY049

PA 68-378

M-NY049

3/90

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

5A

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID: V081706.D BFB Injection Date: 8/17/2005
 Instrument ID: MSD BFB Injection Time: 14:40
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.5
75	30.0 - 66.0% of mass 95	47.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	80.6
175	4.0 - 9.0% of mass 174	6.4 (7.9)1
176	93.0 - 101.0% of mass 174	79.2 (98.3)1
177	5.0 - 9.0% of mass 176	5.7 (7.2)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001	VSTD001	V081707.D	8/17/2005	15:51
02	VSTD002	VSTD002	V081708.D	8/17/2005	16:45
03	VSTD005	VSTD005	V081709.D	8/17/2005	17:17
04	VSTD010	VSTD010	V081710.D	8/17/2005	18:05
05	VSTD025	VSTD025	V081711.D	8/17/2005	18:37
06	VBLK017	VBLK017	V081713.D	8/17/2005	19:42
07	VSBLK010	VSBLK010	V081714.D	8/17/2005	20:16
08	VBSPK017	VBSPK017	V081715.D	8/17/2005	20:48
09	VLCS010	017VLCS	V081716.D	8/17/2005	21:20
10	TRIP BLANK	251041-001	V081717.D	8/17/2005	21:53
11	SARNEY	251041-012	V081718.D	8/17/2005	22:25
12	EMERSON	251041-013	V081719.D	8/17/2005	22:57
13	HURLBERT	251041-014	V081720.D	8/17/2005	23:29
14	TAYLOR	251041-015	V081721.D	8/18/2005	0:01
15	151 BHR	251041-016	V081722.D	8/18/2005	0:34
16	151 BHRMS	251041-016MS	V081723.D	8/18/2005	1:06
17	151 BHRMSD	251041-016MSD	V081724.D	8/18/2005	1:39

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FORM V VOA

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 66-378

M-NY049

3/90
STL Newburgh
305 Fulton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID (Standard): V081709.D Date Analyzed: 8/17/2005
 Instrument ID: MSD Time Analyzed: 17:17
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(DFB)		IS2(CBZ)		IS3(DCB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	2281962	11.68	1564506	16.97	834943	21.22
UPPER LIMIT	3194747	12.01	2190308	17.30	1168920	21.55
LOWER LIMIT	1369177	11.35	938704	16.64	500966	20.89
EPA SAMPLE NO.						
01 VBLK017	2249122	11.68	1524414	16.95	770208	21.21
02 VSBLK010	2171308	11.68	1479443	16.95	764240	21.21
03 VBSPK017	2253670	11.68	1546222	16.97	835916	21.21
04 VLCS010	2185791	11.68	1512181	16.95	782810	21.22
05 TRIP BLANK	2034380	11.68	1439167	16.95	735904	21.21
06 SARNEY	2208214	11.68	1536785	16.95	794829	21.22
07 EMERSON	2170135	11.68	1556478	16.95	816697	21.22
08 HURLBERT	2166166	11.68	1554100	16.95	823106	21.21
09 TAYLOR	2146466	11.68	1510374	16.95	803921	21.21
10 151 BHR	2147841	11.68	1541137	16.95	817071	21.20
11 151 BHRMS	2092929	11.68	1518051	16.95	851357	21.20
12 151 BHRMSD	2204231	11.68	1581038	16.95	865274	21.21

IS1 (DFB) = 1,4-Difluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +40% of internal standard area

AREA LOWER LIMIT = -40% of internal standard area

RT UPPER LIMIT = +0.33 minutes of internal standard RT

RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract require QC limits, part of Severn Trent Laboratories, Inc.

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STL1

NYSDOH 10142

NJDEP 73015

FORM VIII VOA

CTD/HS PH-0554

EPA NY049

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STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Trip Blank
Date Sampled.....: 08/10/2005
Time Sampled.....: 00:00
Sample Matrix.....: Trip Blank

Laboratory Sample ID: 251041-1
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dmd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Methylene chloride	1.5	J		2.0	ug/L	08/17/05	dmd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dmd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dmd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dmd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dmd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dmd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dmd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dmd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dmd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dmd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dmd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dmd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dmd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dmd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	dmd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dmd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dmd

* In Description = Dry Wgt.

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NYSDOH 10142

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EPA NY049

PA 68-378

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-001

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081717.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/17/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.6867	JN

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FORM VOA-TIC

3/90

NYSDOH 10142

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CTDQHS PH-0554

EPA NY049

PA 88-378

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STL Newburgh
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081717.D

Vial: 15

Acq On : 17 Aug 2005 21:53

Operator: DMD

Sample : 251041-001,,

Inst : MSD

Misc : TRIP BLANK|017,,VBLK|MACTEC 95.4

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 18 8:56 2005

Quant Results File: 9540817.RES

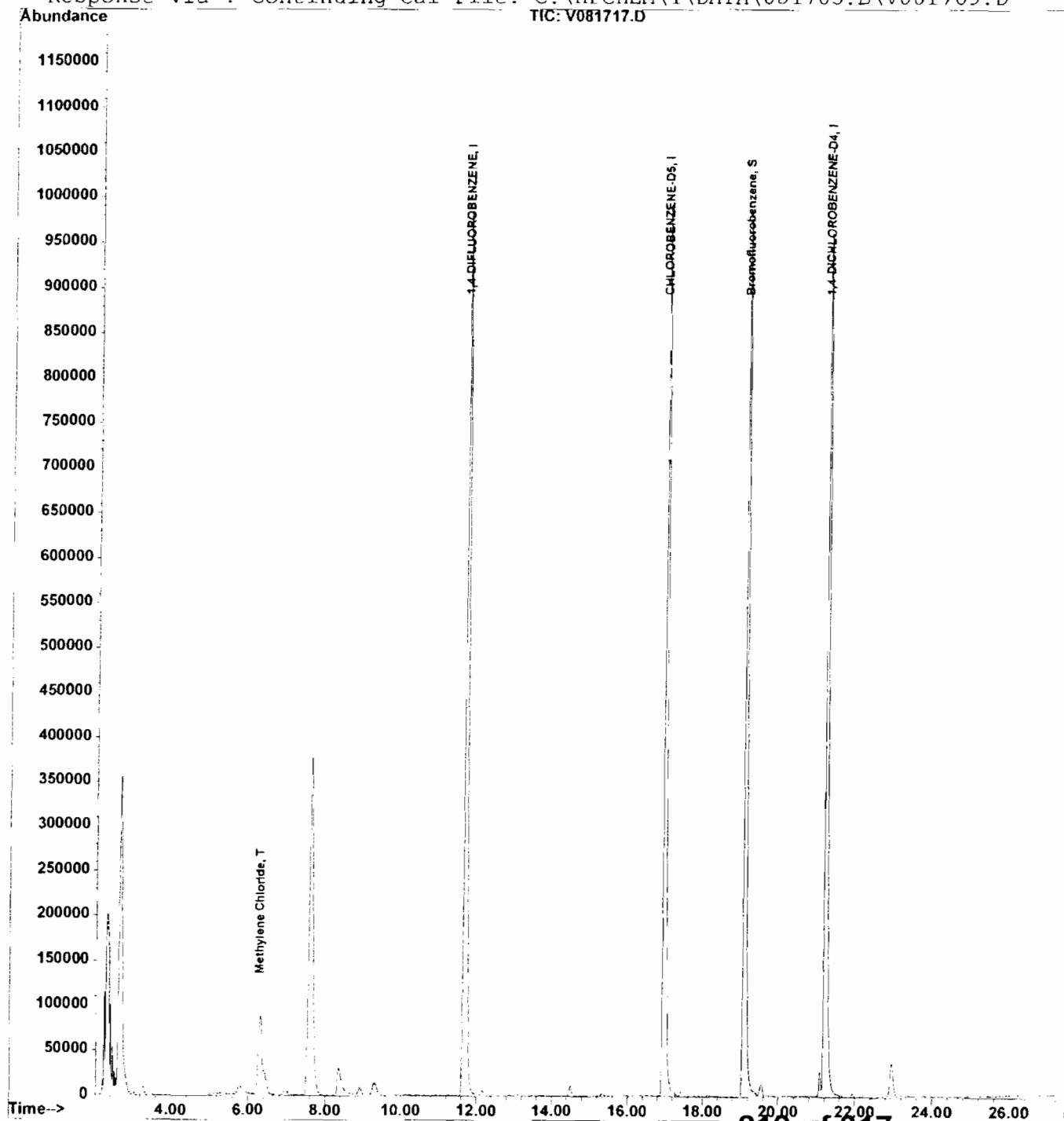
Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

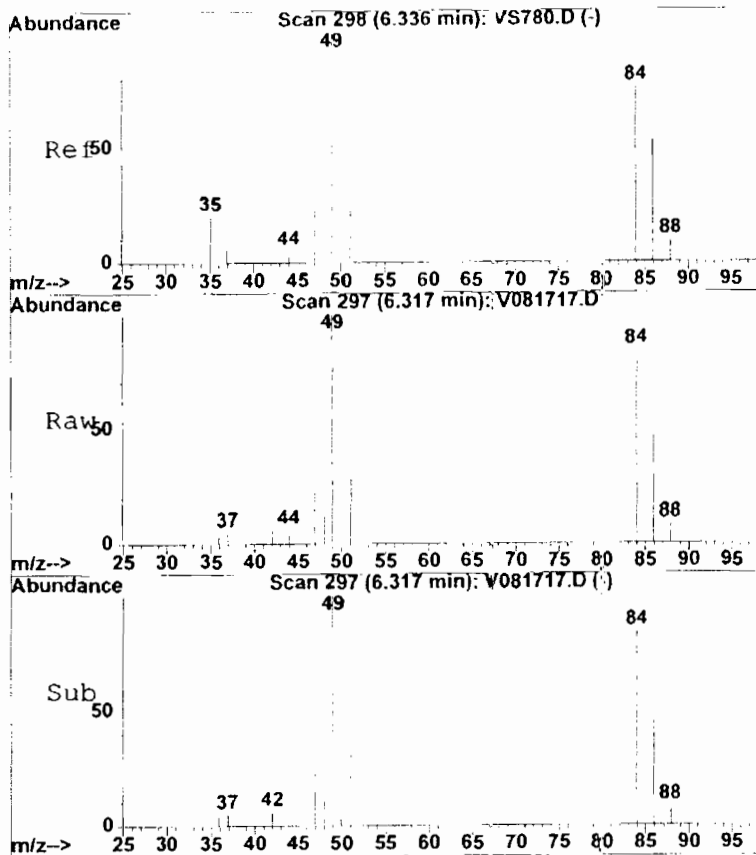
Last Update : Wed Aug 17 19:10:46 2005

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D

TIC: V081717.D



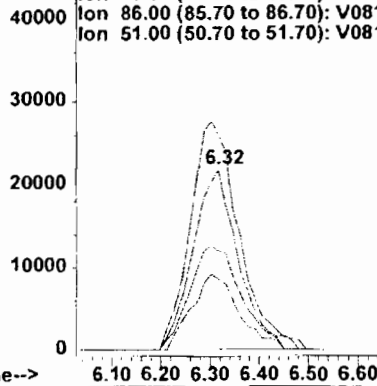
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#8
Methylene Chloride
Concen: 1.51 ug/l
RT: 6.32 min Scan# 297
Delta R.T. 0.03 min
Lab File: V081717.D
Acq: 17 Aug 2005 21:53

Tgt Ion: 84 Resp: 141325
Ion Ratio Lower Upper
84 100
49 118.8 132.0 172.0#
86 55.4 43.6 83.6
51 38.8 28.7 68.7

Abundance Ion 84.00 (83.70 to 84.70): V081
Ion 49.00 (48.70 to 49.70): V081
Ion 86.00 (85.70 to 86.70): V081
Ion 51.00 (50.70 to 51.70): V081



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081717.D Vial: 15
Acq On : 17 Aug 2005 21:53 Operator: DMD
Sample : 251041-001,, Inst : MSD
Misc : TRIP BLANK\017,,VBLK\MACTEC 95.4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 8:56 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
DataAcq Meth : 9540817

DM 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2034380	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1439167	5.00	ug/l	-0.02
32) 1,4-DICHLOROBENZENE-D4	21.21	152	735904	5.00	ug/l	0.00

System Monitoring Compounds

20) Bromofluorobenzene	19.11	174	814332	4.96	ug/l	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.20%

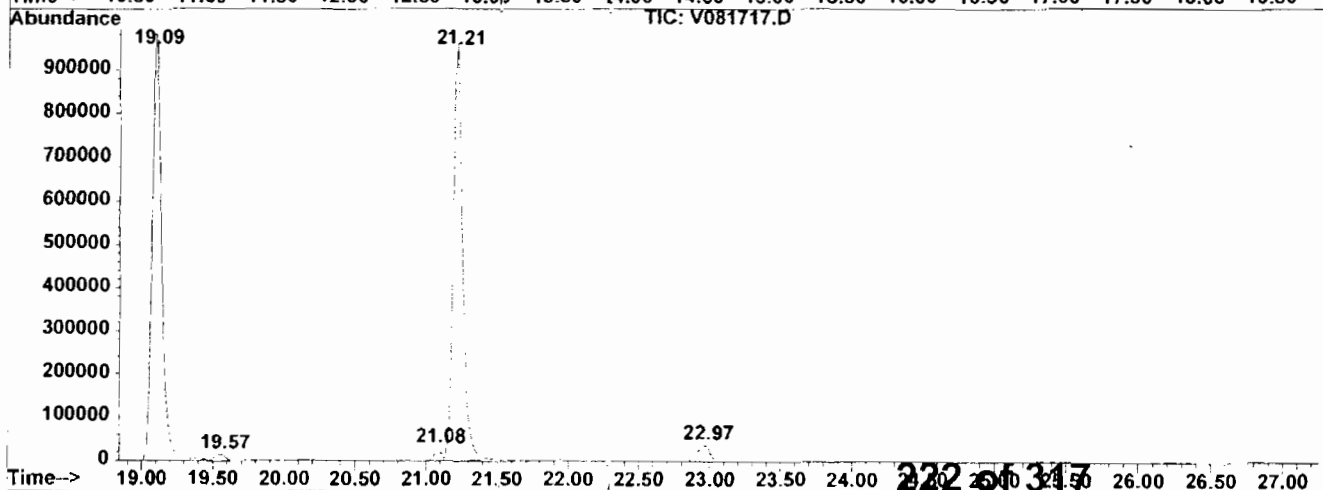
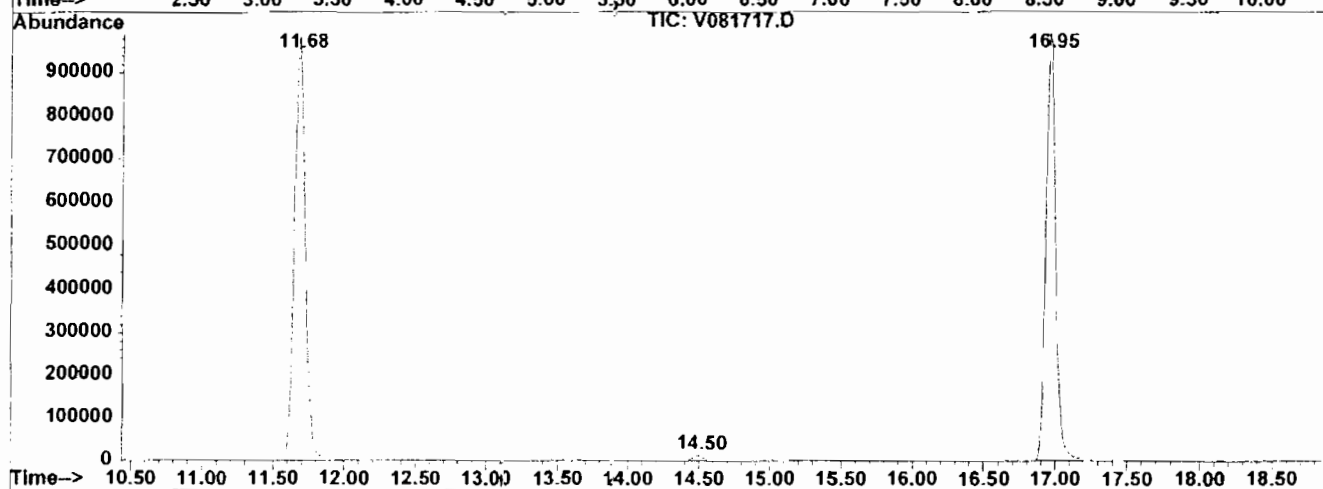
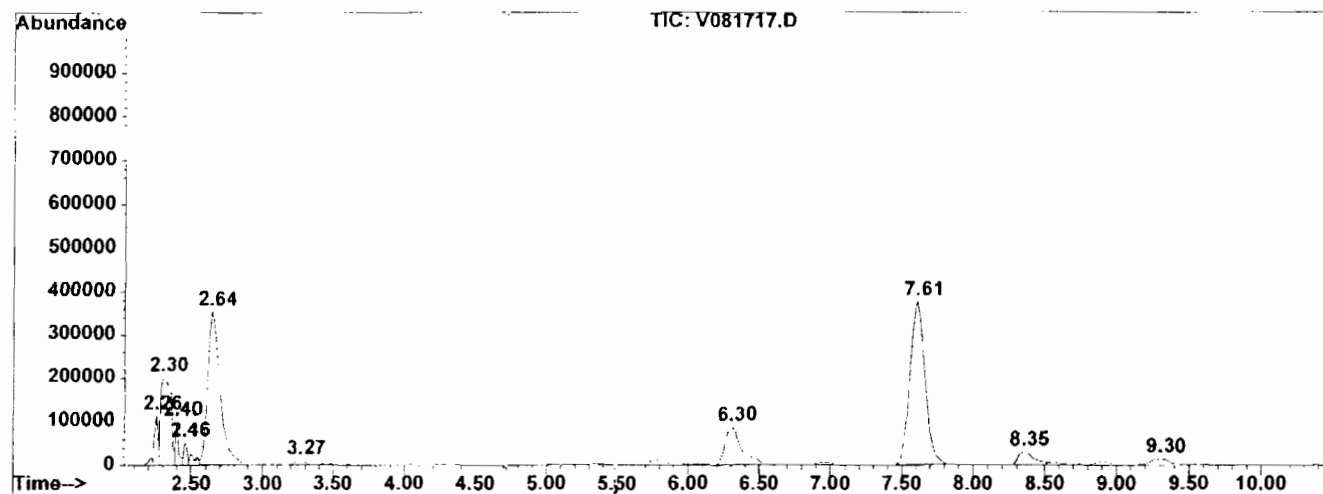
Target Compounds

Qvalue

8) Methylene Chloride	6.32	84	141325	1.51	ug/l	# 80

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\081705.B\V081717.D
 Operator : DMD
 Acquired : 17 Aug 2005 21:53 using AcqMethod 9540817
 Instrument : MSD
 Sample Name: 251041-001,,
 Misc Info : TRIP BLANK|017,,VBLK|MACTEC 95.4
 Vial Number: 15
 Quant File :9540817.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\081705.B\081717.D
 Acq On : 17 Aug 2005 21:53
 Sample : 251041-001,,
 Misc : TRIP BLANK|017,, VBLK|MACTEC 95.4
 MS Integration Params: LSCINT.P

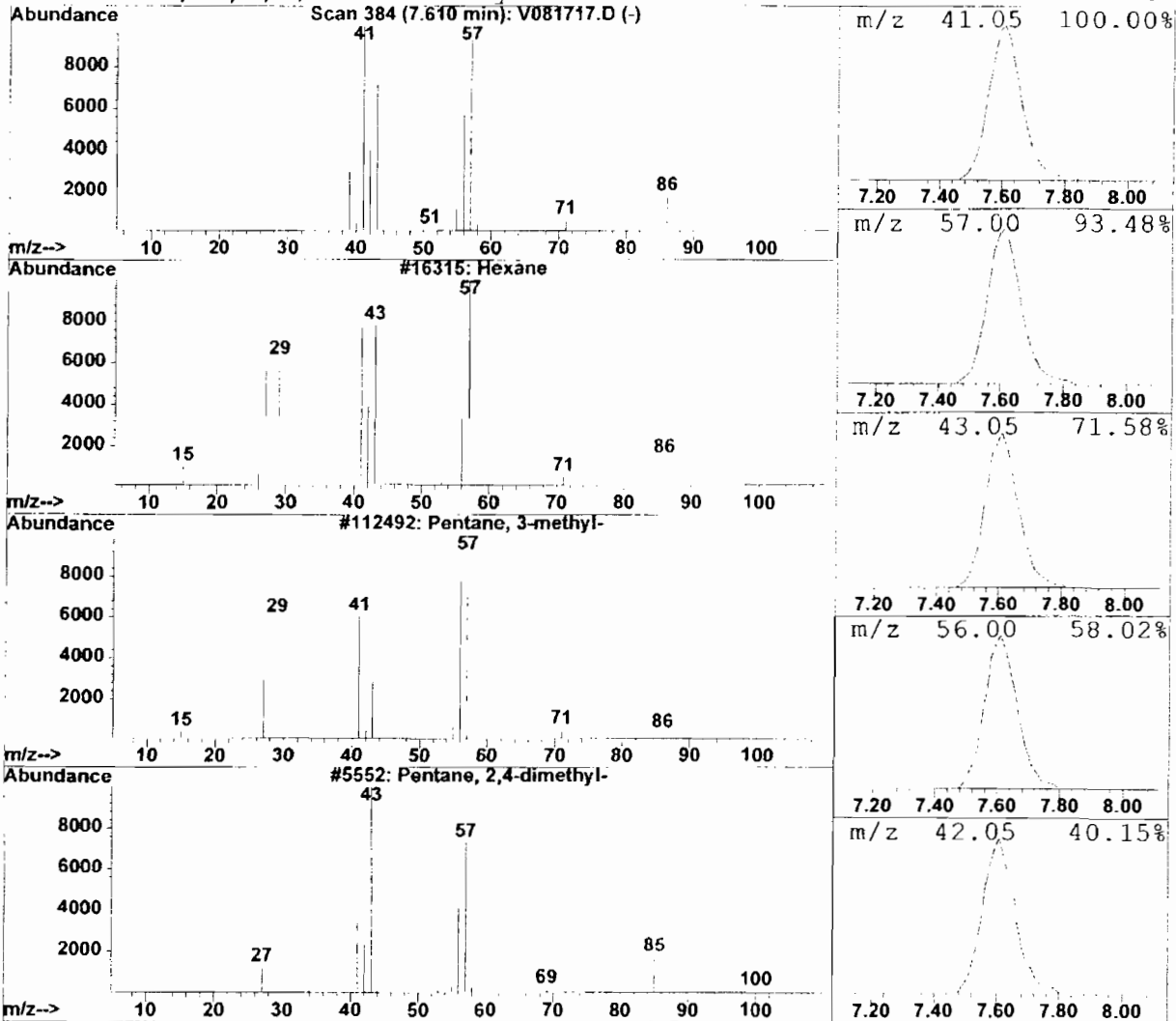
Vial: 15
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Library : C:\DATABASE\NIST98.L

 Peak Number 3 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.61	2.69 ug/l	2736660	1,4-DIFLUOROBENZENE	11.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane	86	C6H14	000110-54-3	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	28
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	38
4	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	23



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 17 Aug 2005 21:53
 Data File: C:\HPCHEM\1\DATA\081705.B\V081717.D
 Name: 251041-001,,
 Misc: TRIP BLANK\017,,VBLK\MACTEC 95.4
 Method: C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title: VOA Standards for 5 point calibration
 Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstCnc	Units	Area	IntStd	ISRT	ISArea	ISConc
Silane, methyl-	2.30	1.0	ug/l	1003650	ISTD01	11.68	5092900	5.0
Methane, chlorodiflu	2.64	2.1	ug/l	2130000	ISTD01	11.68	5092900	5.0
Hexane	7.61	2.7	ug/l	2736660	ISTD01	11.68	5092900	5.0

V081717.D 9540817.M Thu Aug 18 09:02:51 2005 MSD

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Sarney
Date Sampled.....: 08/10/2005
Time Sampled.....: 15:53
Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-12
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Methylene chloride	0.59	J		2.0	ug/L	08/17/05	dmcd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dmcd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dmcd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dmcd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dmcd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dmcd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dmcd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dmcd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dmcd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dmcd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dmcd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SARNEY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-012
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081718.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. _____ Date Analyzed: 8/17/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.60	2.7533	JN

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NYSDOH 10142

NJDEP 73015

FORM 1 VOA TIC

CTDCHS PH-0564

EPA NY049

PA 66-378

M-NY049

STL Newburgh
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Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

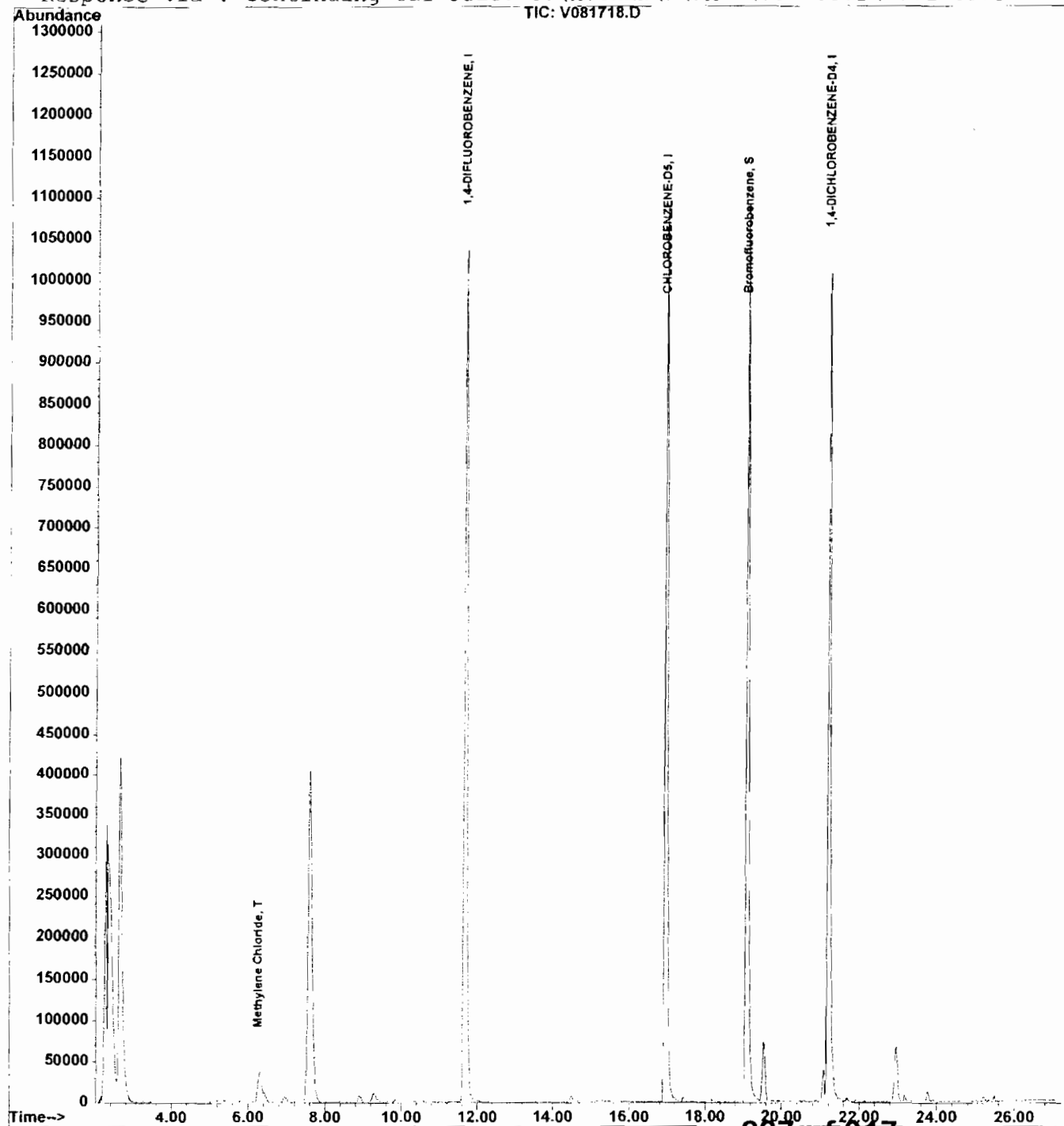
Quantitation Report

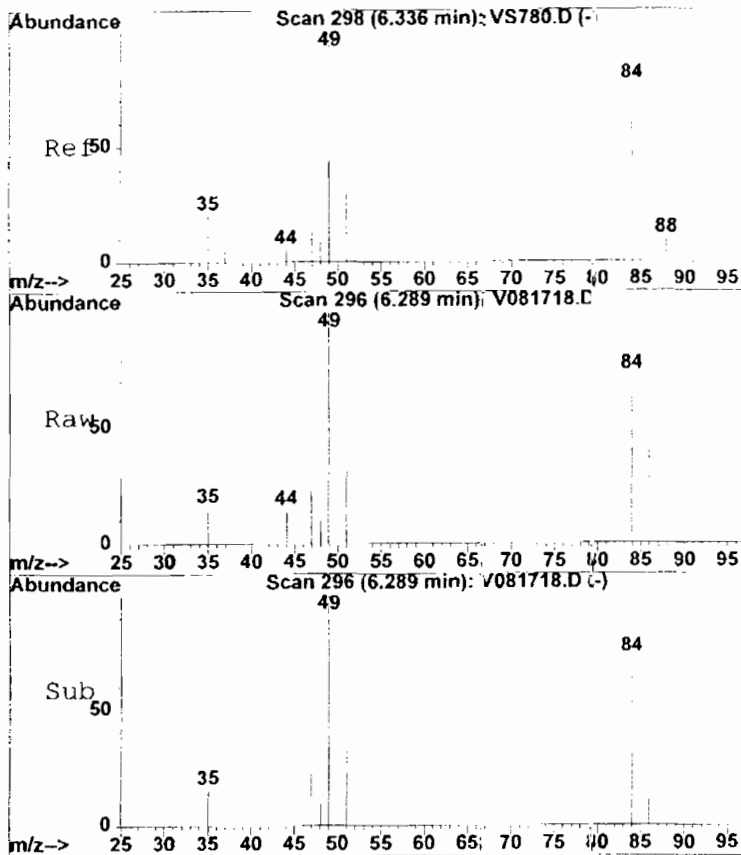
Data File : C:\HPCHEM\1\DATA\081705.B\V081718.D
 Acq On : 17 Aug 2005 22:25
 Sample : 251041-012,,
 Misc : SARNEY\017,,VBLK\MACTEC 95.4
 MS Integration Params: rteint.p
 Quant Time: Aug 18 8:56 2005

Vial: 16
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D





#8
Methylene Chloride
Concen: 0.59 ug/l
RT: 6.29 min Scan# 296
Delta R.T. 0.00 min
Lab File: V081718.D
Acq: 17 Aug 2005 22:25

Tgt Ion:	84	Resp:	59768
Ion	Ratio	Lower	Upper
84	100		
49	138.5	132.0	172.0
86	55.6	43.6	83.6
51	44.6	28.7	68.7

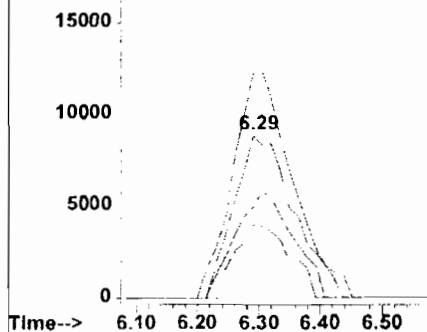
Abundance

Ion 84.00 (83.70 to 84.70): V081

Ion 49.00 (48.70 to 49.70): V081

Ion 86.00 (85.70 to 86.70): V081

Ion 51.00 (50.70 to 51.70): V081



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081718.D Vial: 16
Acq On : 17 Aug 2005 22:25 Operator: DMD
Sample : 251041-012,, Inst : MSD
Misc : SARNEY\017,,VBLK\MACTEC 95.4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 8:56 2005 Quant Results File: 9540817.RES

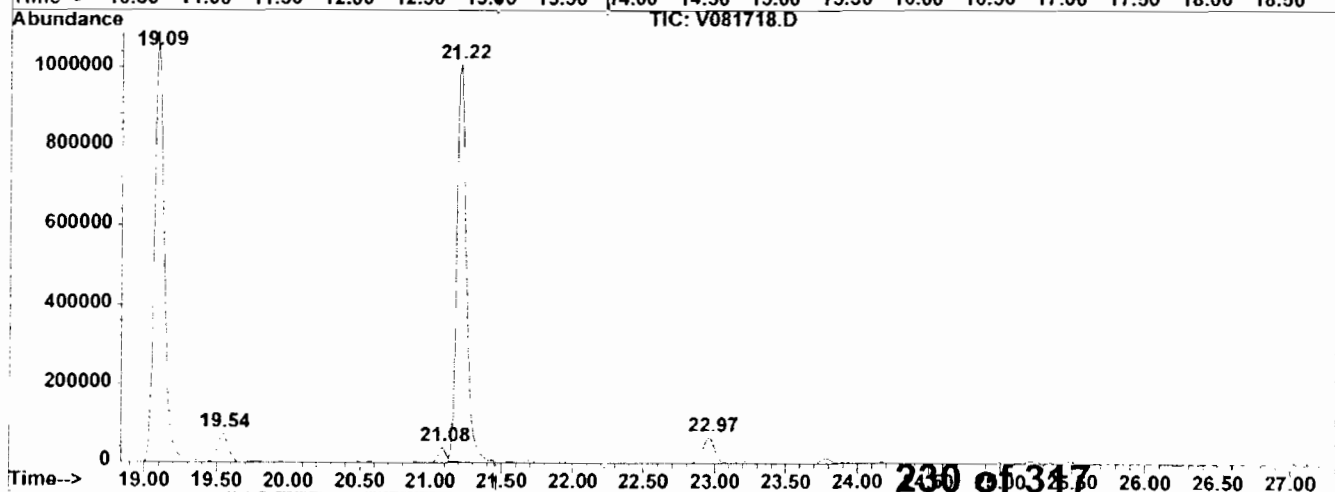
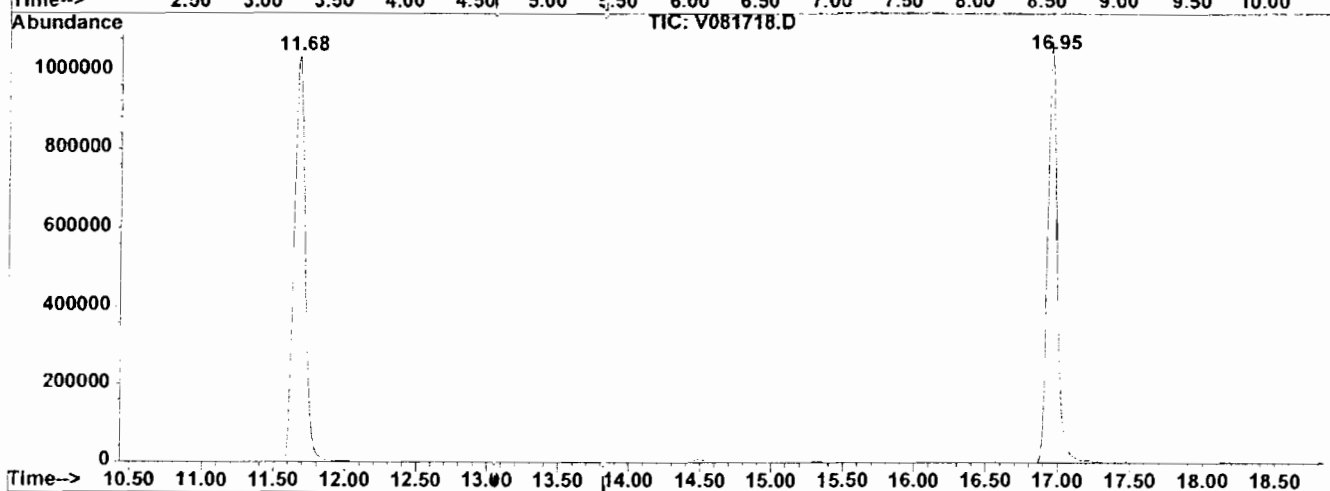
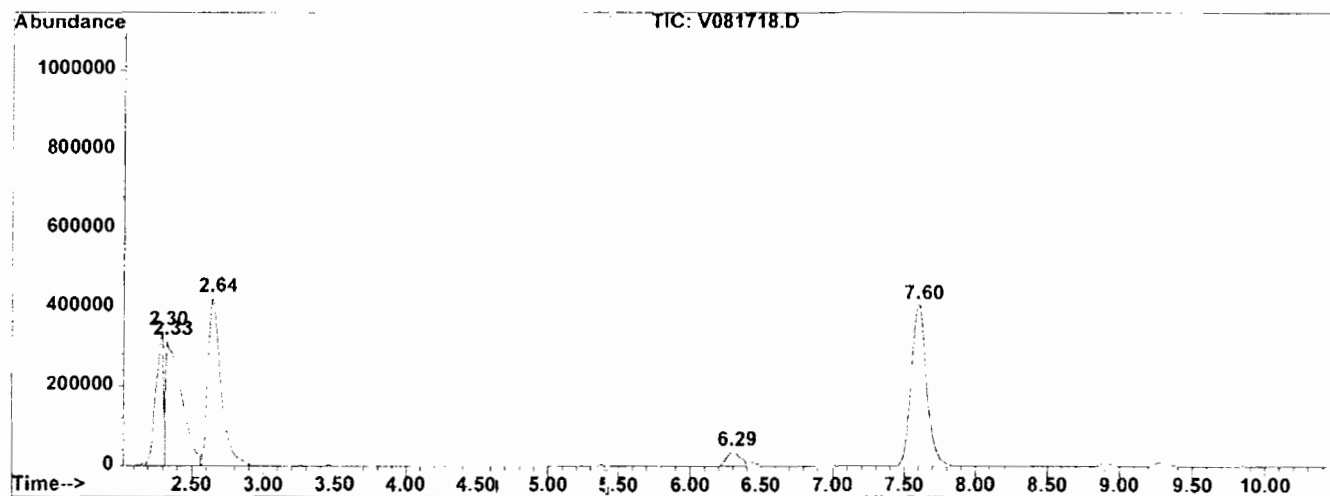
Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
DataAcq Meth : 9540817

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2208214	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1536785	5.00	ug/l	-0.01
32) 1,4-DICHLOROBENZENE-D4	21.22	152	794829	5.00	ug/l	0.00
System Monitoring Compounds						
20) Bromofluorobenzene	19.09	174	881839	4.95	ug/l	-0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.00%
Target Compounds						
8) Methylene Chloride	6.29	84	59768	0.59	ug/l	Qvalue 90

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\081705.B\081718.D
 Operator : DMD
 Acquired : 17 Aug 2005 22:25 using AcqMethod 9540817
 Instrument : MSD
 Sample Name: 251041-012,,
 Misc Info : SARNEY|017,,VBLK|MACTEC 95.4
 Vial Number: 16
 Quant File :9540817.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\081705.B\081718.D
Acq On : 17 Aug 2005 22:25
Sample : 251041-012,,
Misc : SARNEY\017,,VBLK\MACTEC 95.4
MS Integration Params: LSCINT.P

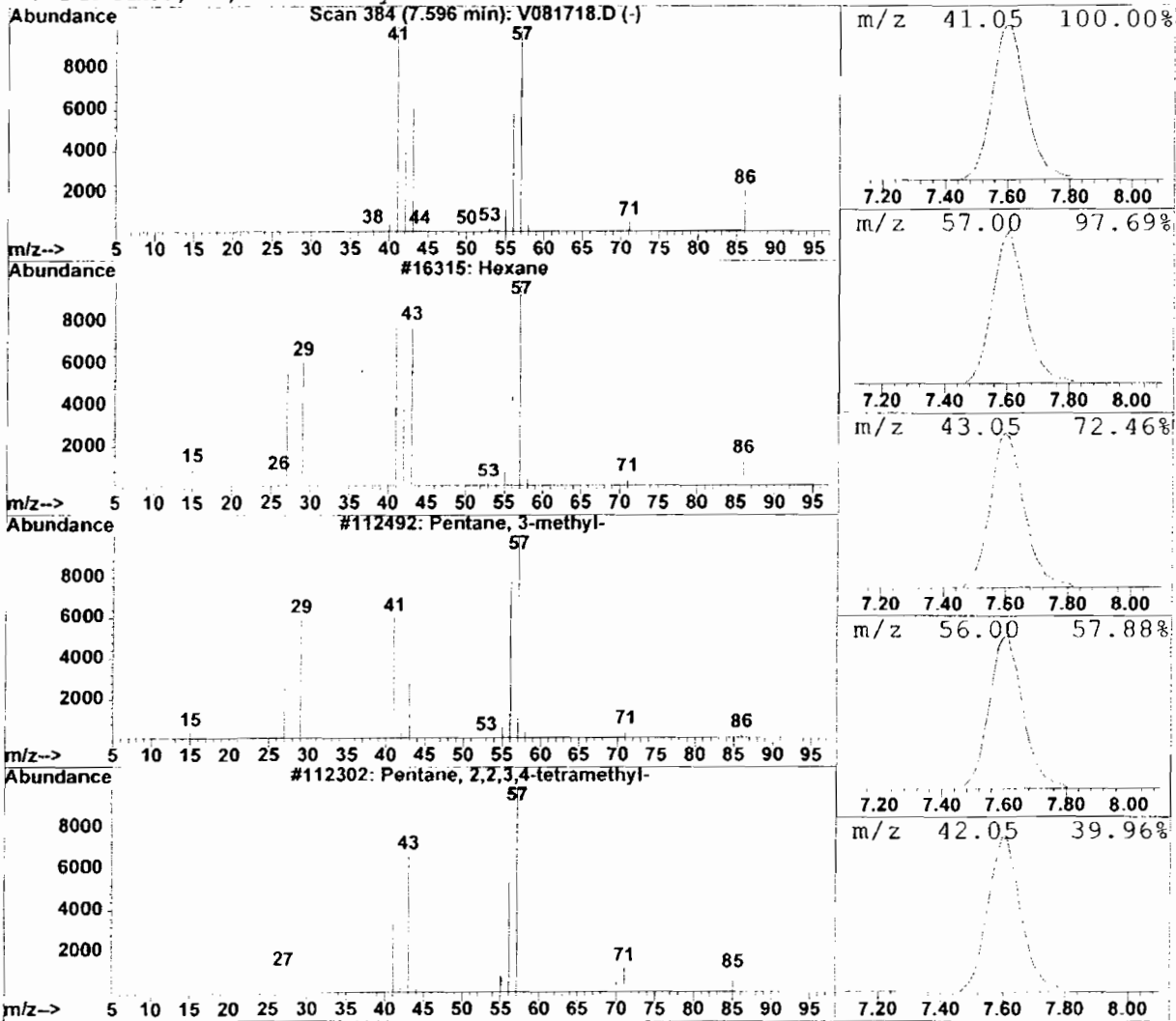
Vial: 16
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

Peak Number 4 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.60	2.75 ug/l	3046990	1,4-DIFLUOROBENZENE	11.68

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	78
2	Pentane, 3-methyl-			86	C6H14	000096-14-0	25
3	Pentane, 2,2,3,4-tetramethyl-			128	C9H20	001186-53-4	23
4	Pentane, 2,4-dimethyl-			100	C7H16	000108-08-7	36



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 17 Aug 2005 22:25
 Data File: C:\HPCHEM\1\DATA\081705.B\V081718.D
 Name: 251041-012,,
 Misc: SARNEY\017,,VBLK\MACTEC 95.4
 Method: C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title: VOA Standards for 5 point calibration
 Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethanol	2.30	1.1	ug/l	1233450	ISTD01	11.68	5533270	5.0
Formamide	2.33	2.1	ug/l	2369720	ISTD01	11.68	5533270	5.0
Methane, chlorodiflu	2.64	2.4	ug/l	2619100	ISTD01	11.68	5533270	5.0
Hexane	7.60	2.8	ug/l	3046990	ISTD01	11.68	5533270	5.0

V081718.D 9540817.M Thu Aug 18 09:03:11 2005 MSD

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Emerson
Date Sampled.....: 08/10/2005
Time Sampled.....: 16:10
Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-13
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dmd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Methylene chloride	0.64	J		2.0	ug/L	08/17/05	dmd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dmd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dmd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dmd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dmd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dmd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dmd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dmd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dmd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dmd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dmd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dmd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dmd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dmd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dmd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	dmd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dmd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dmd

* In Description = Dry Wgt.

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SEVERN
TRENT

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMERSON

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-013

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081719.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec. _____

Date Analyzed: 8/17/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.4355	JN

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FORM I/VOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDQHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

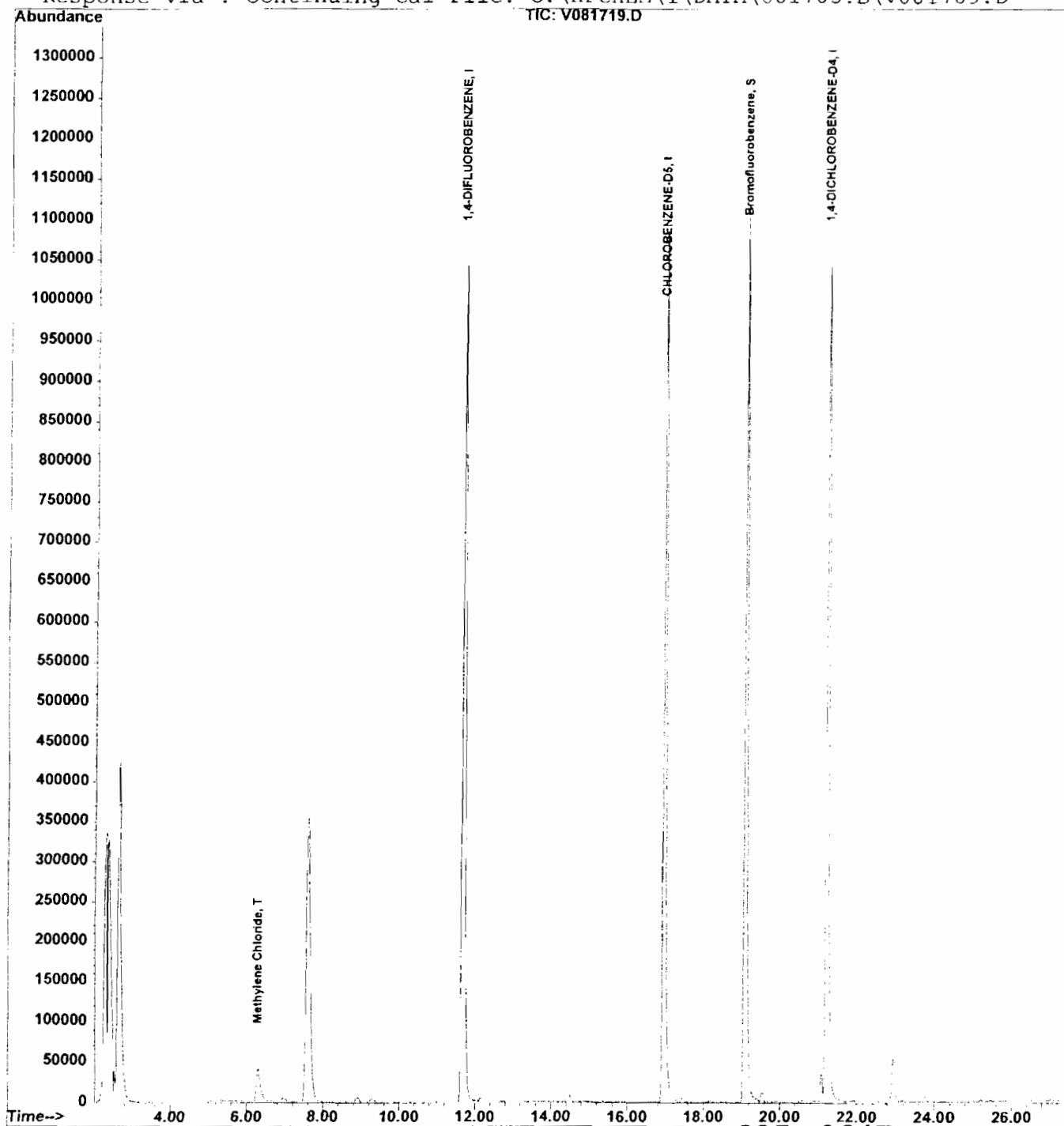
Quantitation Report

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 Acq On : 17 Aug 2005 22:57
 Sample : 251041-013,,
 Misc : EMERSON\017,,VBLK\MACTEC 95.4
 MS Integration Params: rteint.p
 Quant Time: Aug 18 8:57 2005

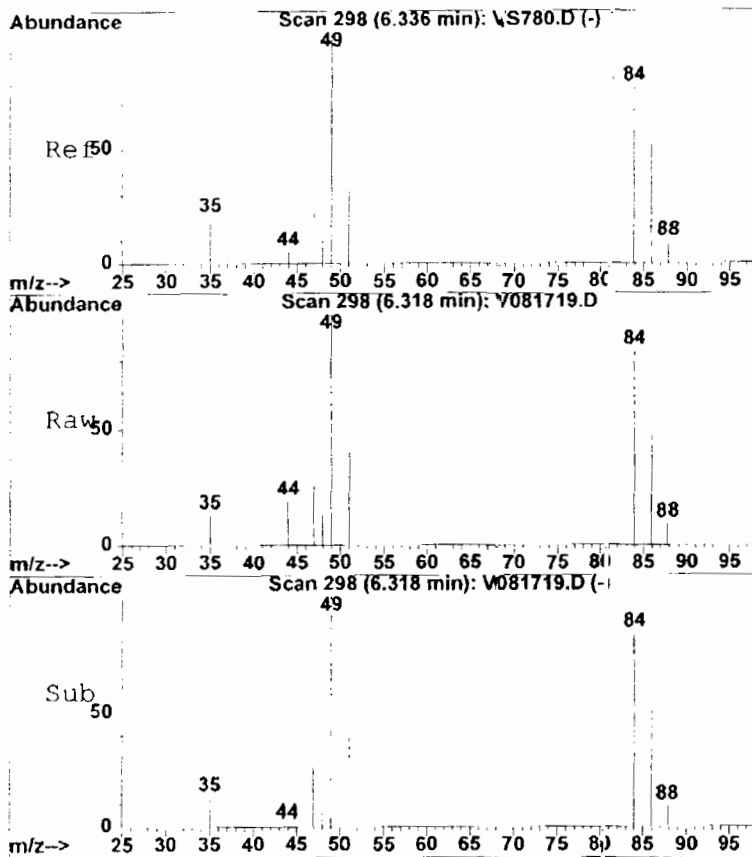
Vial: 1
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D



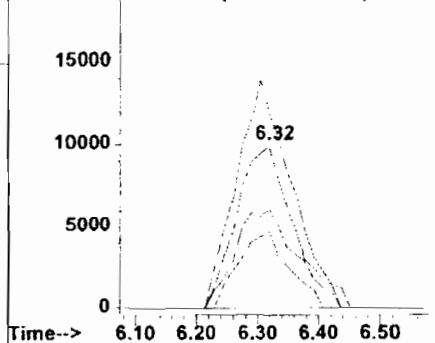
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#8
Methylene Chloride
Concen: 0.64 ug/l
RT: 6.32 min Scan# 298
Delta R.T. 0.03 min
Lab File: V081719.D
Acq: 17 Aug 2005 22:57

Tgt Ion: 84 Resp: 64209
Ion Ratio Lower Upper
84 100
49 118.9 132.0 172.0#
86 61.8 43.6 83.6
51 47.8 28.7 68.7

Abundance Ion 84.00 (83.70 to 84.70): V081
Ion 49.00 (48.70 to 49.70): V081
20000 Ion 86.00 (85.70 to 86.70): V081
Ion 51.00 (50.70 to 51.70): V081



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081719.D Vial: 1
Acq On : 17 Aug 2005 22:57 Operator: DMD
Sample : 251041-013,, Inst : MSD
Misc : EMERSON|017,,VBLK|MACTEC 95.4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 8:57 2005 Quant Results File: 9540817.RES

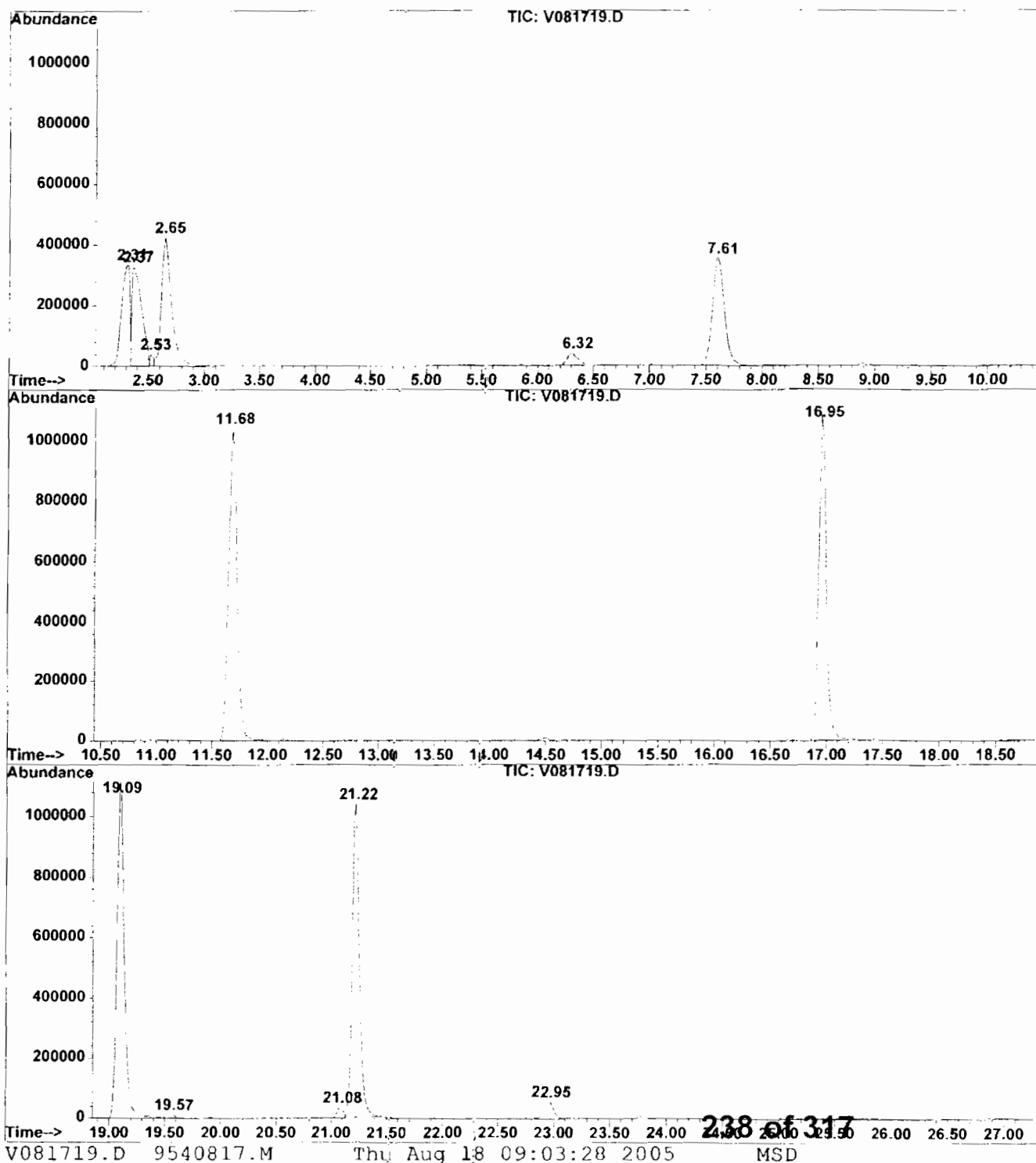
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Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
DataAcq Meth : 9540817

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2170135	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1556478	5.00	ug/l	-0.01
32) 1,4-DICHLOROBENZENE-D4	21.22	152	816697	5.00	ug/l	0.00
System Monitoring Compounds						
20) Bromofluorobenzene	19.11	174	894261	5.11	ug/l	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.20%
Target Compounds						
8) Methylene Chloride	6.32	84	64209	0.64	ug/l	# 84

LSC Report - Integrated Chromatogram

```
File       : C:\HPCHEM\1\DATA\081705.B\V081719.D
Operator   : DMD
Acquired   : 17 Aug 2005  22:57      using AcqMethod 9540817
Instrument  : MSD
Sample Name: 251041-013,,
Misc Info  : EMERSON|017,,VBLE|MACTEC 95.4
Vial Number: 1
Quant File : 9540817.RES (RTE Integrator)
```



Library Search Compound Report

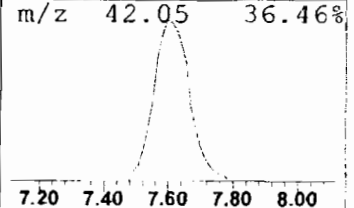
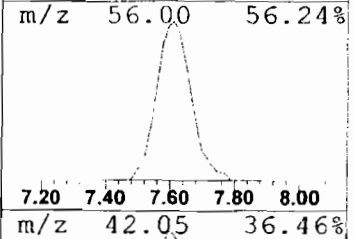
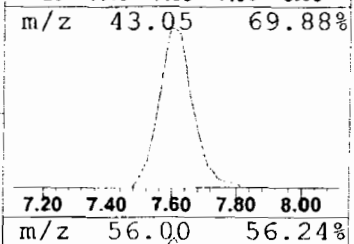
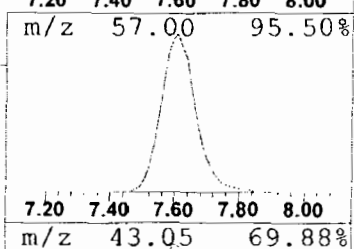
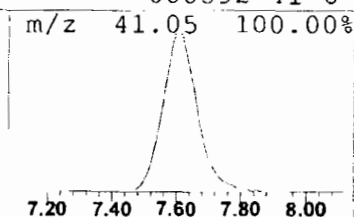
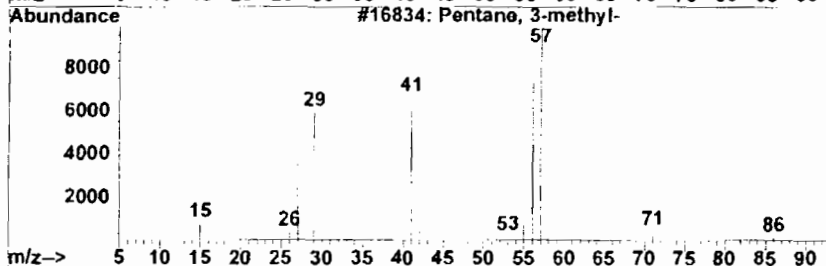
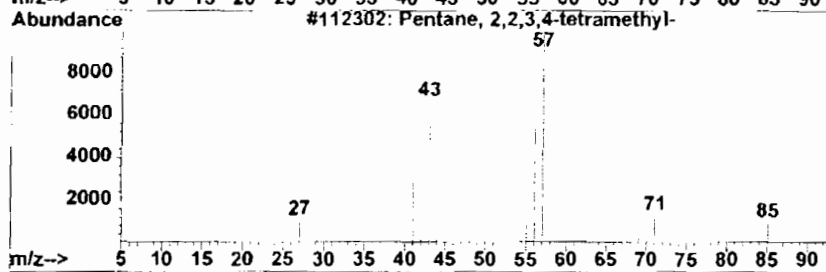
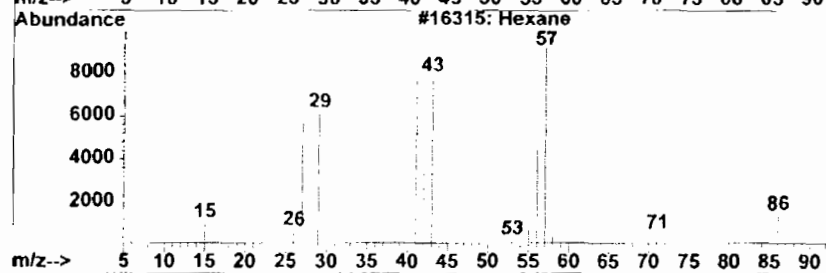
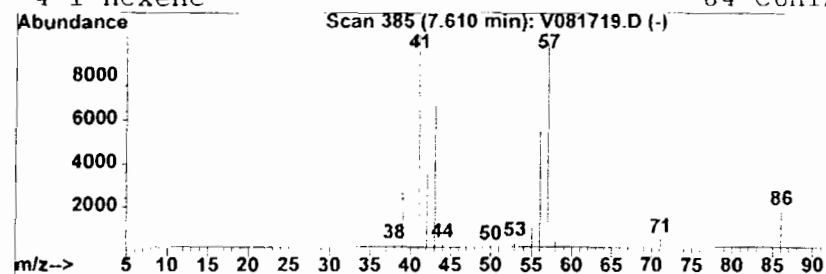
Data File : C:\HPCHEM\1\DATA\081705.B\V081719.D
Acq On : 17 Aug 2005 22:57
Sample : 251041-013,,
Misc : EMERSON|017,,VBLK|MACTEC 95.4
MS Integration Params: LSCINT.P

Vial: 1
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

Peak Number 4 Hexane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
7.61	2.44 ug/l	2623000	1,4-DIFLUOROBENZENE	11.68	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane	86	C6H14	000110-54-3	91
2	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	28
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	33
4	1-Hexene	84	C6H12	000592-41-6	28



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 17 Aug 2005 22:57
 Data File: C:\HPCHEM\1\DATA\081705.B\V081719.D
 Name: 251041-013,,
 Misc: EMERSON|017,,VBLK|MACTEC 95.4
 Method: C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title: VOA Standards for 5 point calibration
 Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc Units	Area	IntStd	ISRT	ISArea	ISConc
Ethanol	2.31	1.6 ug/l	1724020	ISTD01	11.68	5384920	5.0
Formamide	2.37	1.9 ug/l	2008900	ISTD01	11.68	5384920	5.0
Methane, chlorodiflu	2.65	2.5 ug/l	2643610	ISTD01	11.68	5384920	5.0
Hexane	7.61	2.4 ug/l	2623000	ISTD01	11.68	5384920	5.0

V081719.D 9540817.M Thu Aug 18 09:03:31 2005 MSD

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Hurlbert
Date Sampled.....: 08/10/2005
Time Sampled.....: 16:30
Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-14
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	clmd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Methylene chloride	0.65	J		2.0	ug/L	08/17/05	clmd
	Acetone	5.0	U		5.0	ug/L	08/17/05	clmd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	clmd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	clmd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	clmd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	clmd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	clmd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	clmd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Benzene	1.0	U		1.0	ug/L	08/17/05	clmd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	clmd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	clmd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	clmd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	clmd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Toluene	1.0	U		1.0	ug/L	08/17/05	clmd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	Styrene	1.0	U		1.0	ug/L	08/17/05	clmd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	clmd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/17/05	clmd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	clmd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	clmd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	clmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73016

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

HURLBERT

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-014
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081720.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. _____ Date Analyzed: 8/17/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.3457	JN

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NYSDOH 10142

NJDEP 73018

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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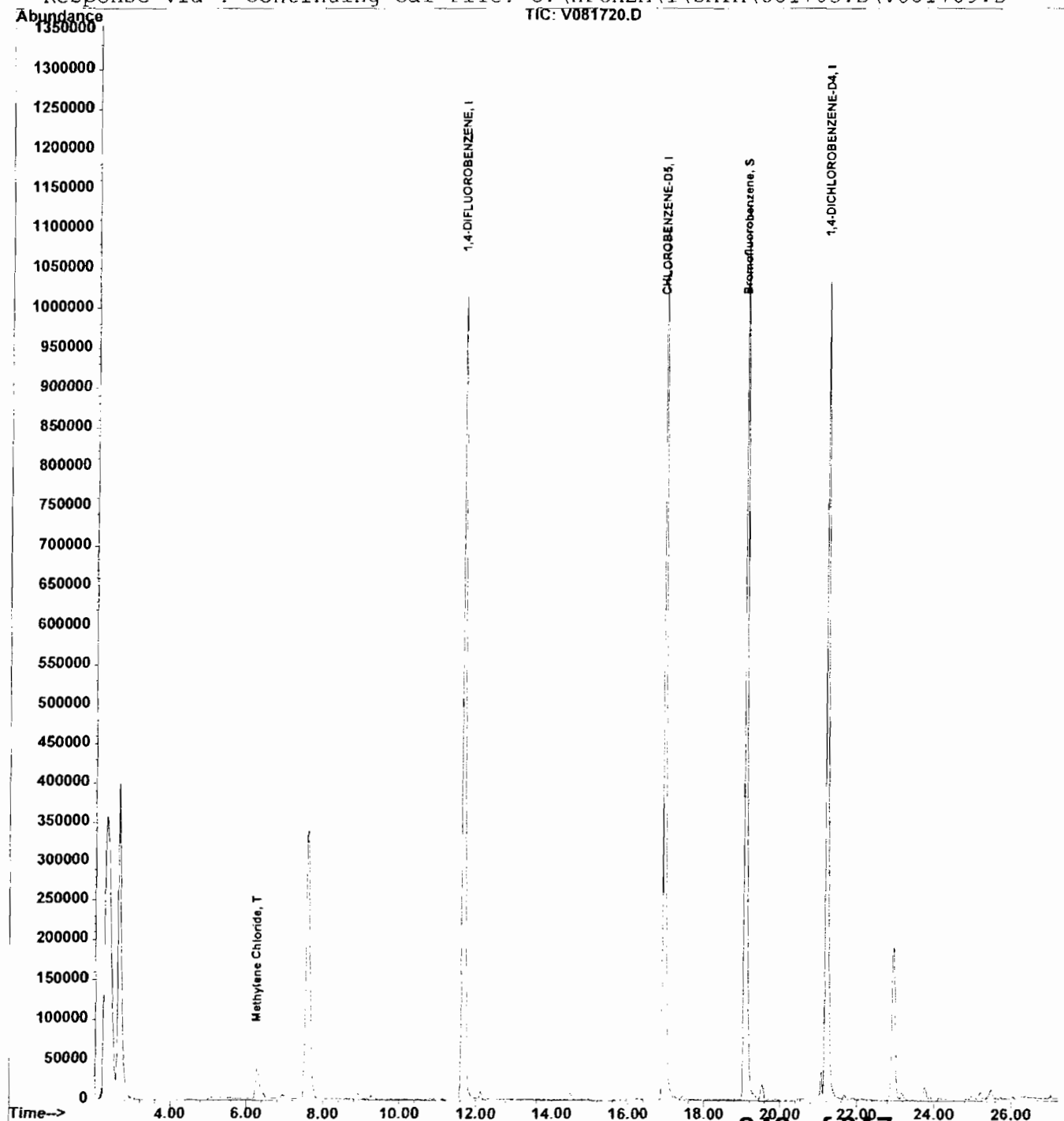
Quantitation Report

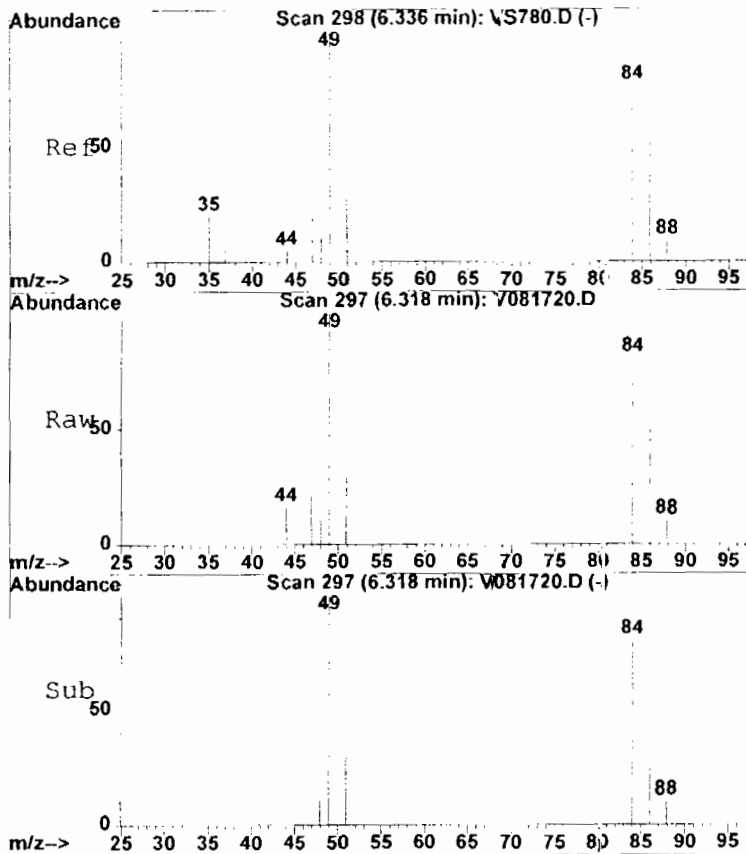
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Acq On : 17 Aug 2005 23:29
Sample : 251041-014,,
Misc : HURBURN\017,,VBLK\MACTEC 95.4
MS Integration Params: rteint.p
Quant Time: Aug 18 8:58 2005

Vial: 2
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9540817.RES

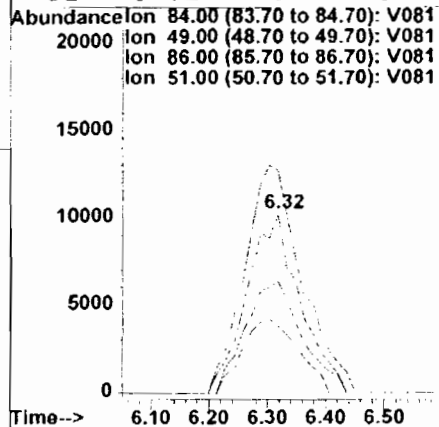
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Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
TIC: V081720.D





#8
Methylene Chloride
Concen: 0.65 ug/l
RT: 6.32 min Scan# 297
Delta R.T. 0.03 min
Lab File: V081720.D
Acq: 17 Aug 2005 23:29

Tgt Ion: 84 Resp: 64501
Ion Ratio Lower Upper
84 100
49 124.5 132.0 172.0#
86 62.5 43.6 83.6
51 37.2 28.7 68.7



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081720.D
Acq On : 17 Aug 2005 23:29
Sample : 251041-014,,
Misc : HURBURT\017,,VBLK\MACTEC 95.4
MS Integration Params: rteint.p
Quant Time: Aug 18 8:58 2005

Vial: 2
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
DataAcq Meth : 9540817

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2166166	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1554100	5.00	ug/l	-0.02
32) 1,4-DICHLOROBENZENE-D4	21.21	152	823106	5.00	ug/l	0.00
System Monitoring Compounds						
20) Bromofluorobenzene	19.09	174	906032	5.19	ug/l	-0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.80%
Target Compounds						
8) Methylene Chloride	6.32	84	64501	0.65	ug/l	Qvalue # 84

(#) = qualifier out of range (m) = manual integration **245 of 317**

V081720.D 9540817.M

Thu Aug 18 09:03:38 2005

MSD

Page 1

.....

Abundance

TIC: V081720.D

1000000

800000

600000

400000

200000

0

2.32 2.64 6.29 7.61

Time--> 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00

Abundance

TIC: V081720.D

1000000

800000

600000

400000

200000

0

11.68 16.95

Time--> 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50 17.00 17.50 18.00 18.50

Abundance

TIC: V081720.D

1000000

800000

600000

400000

200000

0

19.09 19.55 21.08 21.21 22.95 23.77 25.49

Time--> 19.00 19.50 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00

V081720.D 9540817.M Thu Aug 18 09:03:48 2005 MSD

Library Search Compound Report

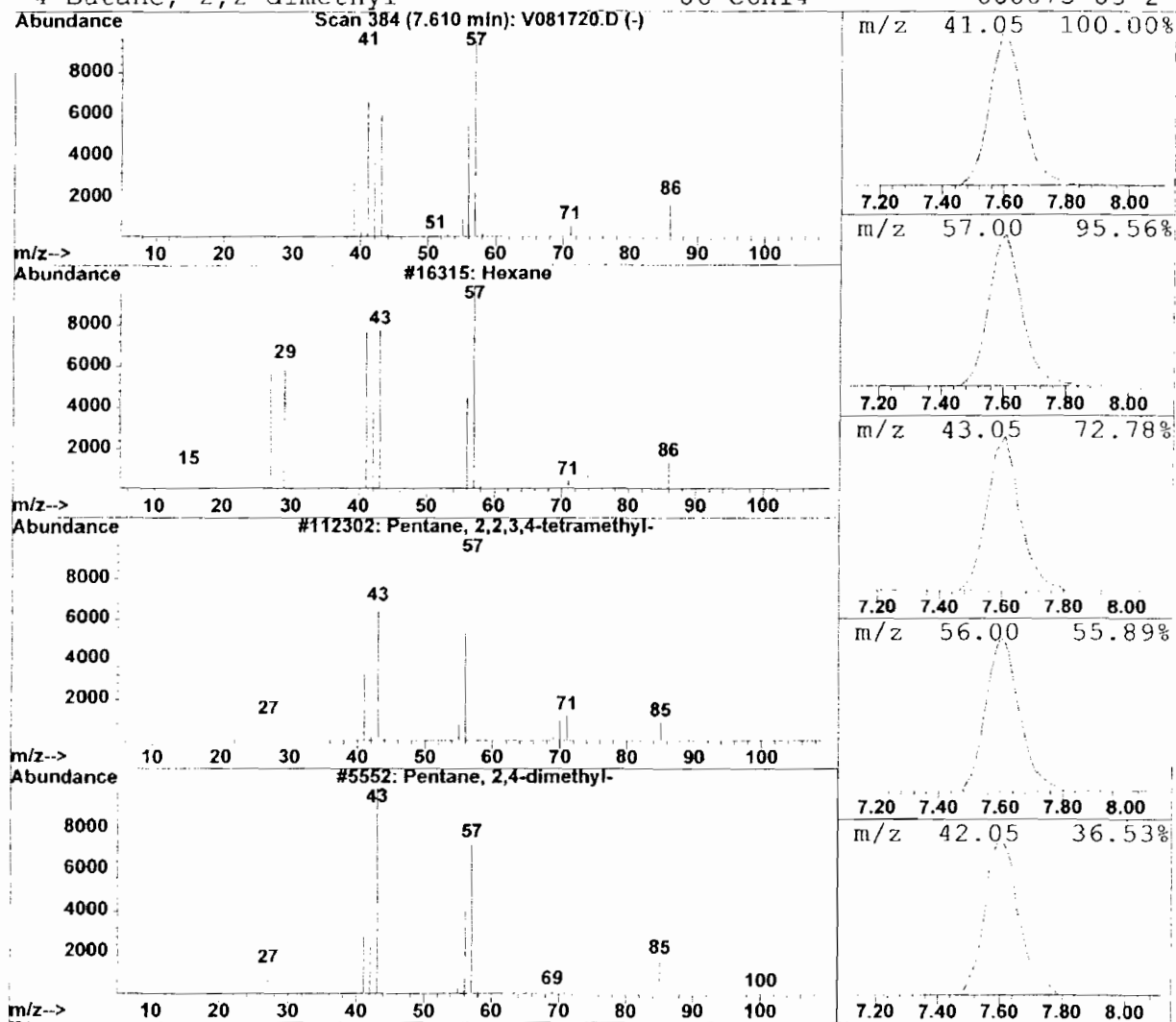
Data File : C:\HPCHEM\1\DATA\081705.B\081720.D
Acq On : 17 Aug 2005 23:29
Sample : 251041-014,,
Misc : HURBURN\017,,VBLK\MACTEC 95.4
MS Integration Params: LSCINT.P

Vial: 2
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

Peak Number 3 Hexane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
7.61	2.35 ug/l	2519610	1,4-DIFLUOROBENZENE	11.68	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane	86	C6H14	000110-54-3	91
2	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	28
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	38
4	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	23



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 17 Aug 2005 23:29
 Data File: C:\HPCHEM\1\DATA\081705.B\V081720.D
 Name: 251041-014,,
 Misc: HURBURY017,,VBLK\MACTEC 95.4
 Method: C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title: VOA Standards for 5 point calibration
 Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethanol	2.32	3.8	ug/L	4069090	ISTD01	11.68	5370810	5.0
Methane, chlorodiflu	2.64	2.3	ug/L	2495200	ISTD01	11.68	5370810	5.0
Hexane	7.61	2.3	ug/L	2519610	ISTD01	11.68	5370810	5.0

V081720.D 9540817.M Thu Aug 18 09:03:51 2005 MSD

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Taylor
Date Sampled.....: 08/10/2005
Time Sampled.....: 16:52
Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-15
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/18/05	clmd
	Bromomethane	1.0	U		1.0	ug/L	08/18/05	clmd
	Vinyl chloride	1.0	U		1.0	ug/L	08/18/05	clmd
	Chloroethane	1.0	U		1.0	ug/L	08/18/05	clmd
	Methylene chloride	0.59	J		2.0	ug/L	08/18/05	clmd
	Acetone	5.0	U		5.0	ug/L	08/18/05	clmd
	Carbon disulfide	1.0	U		1.0	ug/L	08/18/05	clmd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	clmd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/18/05	clmd
	Chloroform	1.0	U		1.0	ug/L	08/18/05	clmd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/18/05	clmd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/18/05	clmd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/18/05	clmd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/18/05	clmd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/18/05	clmd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/18/05	clmd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/18/05	clmd
	Trichloroethene	1.0	U		1.0	ug/L	08/18/05	clmd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/18/05	clmd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/18/05	clmd
	Benzene	1.0	U		1.0	ug/L	08/18/05	clmd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/18/05	clmd
	Bromoform	1.0	U		1.0	ug/L	08/18/05	clmd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/18/05	clmd
	2-Hexanone	5.0	U		5.0	ug/L	08/18/05	clmd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/18/05	clmd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/18/05	clmd
	Toluene	1.0	U		1.0	ug/L	08/18/05	clmd
	Chlorobenzene	1.0	U		1.0	ug/L	08/18/05	clmd
	Ethylbenzene	1.0	U		1.0	ug/L	08/18/05	clmd
	Styrene	1.0	U		1.0	ug/L	08/18/05	clmd
	o-Xylene	1.0	U		1.0	ug/L	08/18/05	clmd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/18/05	clmd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	clmd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	clmd
	Bromochloromethane	1.0	U		1.0	ug/L	08/18/05	clmd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/18/05	clmd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	clmd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	clmd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	clmd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/18/05	clmd
	Vinyl acetate	1.0	U		1.0	ug/L	08/18/05	clmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TAYLOR

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-015

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081721.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.2811	JN

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FORM I-VOA-TIC

3/90

NYSDOH 10142

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Newburgh, NY 12550
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Fax (845) 562-0841

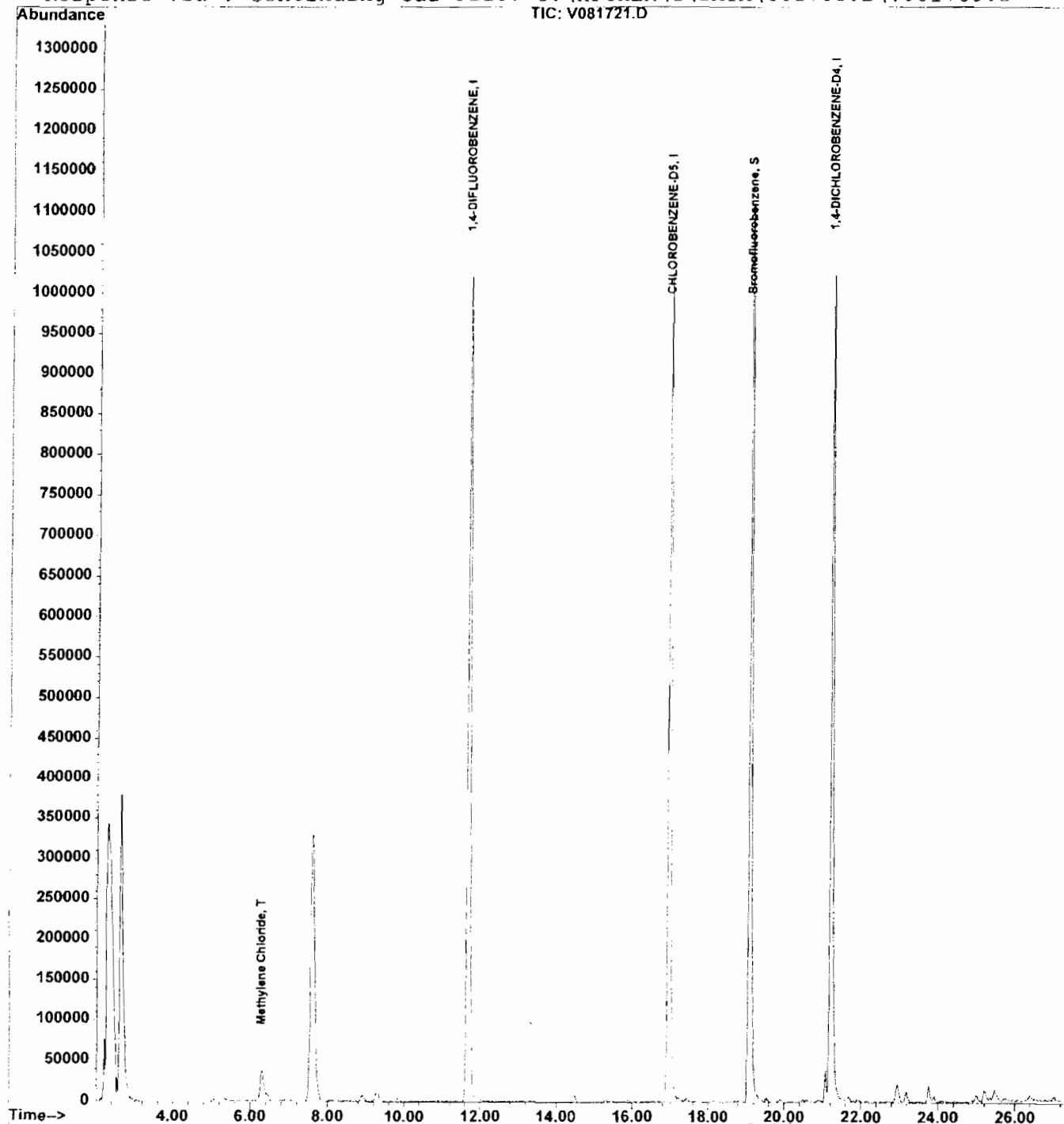
Quantitation Report

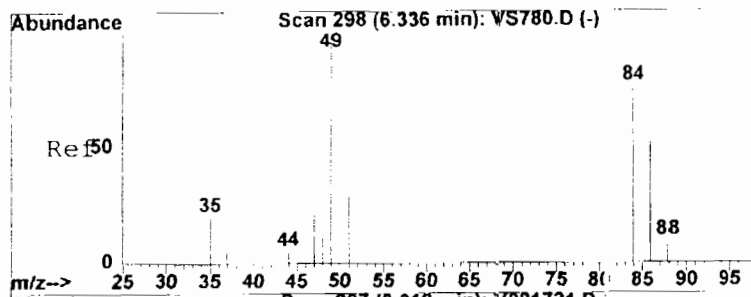
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 Sample : 251041-015,,
 Misc : TAYLOR\017,,VBLK\MACTEC 95.4
 MS Integration Params: rteint.p
 Quant Time: Aug 18 8:58 2005

Vial: 3
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D

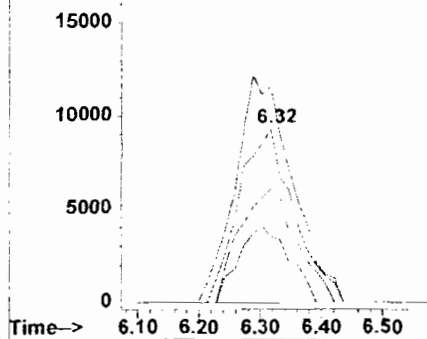
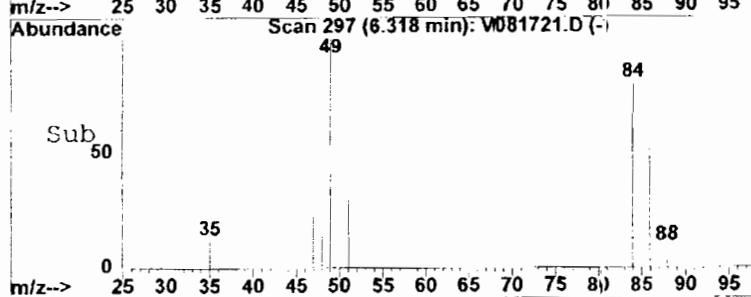




#8
Methylene Chloride
Concen: 0.59 ug/l
RT: 6.32 min Scan# 297
Delta R.T. 0.03 min
Lab File: V081721.D
Acq: 18 Aug 2005 00:01

Tgt Ion: 84 Resp: 58159
Ion Ratio Lower Upper
84 100
49 124.7 132.0 172.0#
86 65.2 43.6 83.6
51 37.7 28.7 68.7

Abundance Ion 84.00 (83.70 to 84.70): V081
Ion 49.00 (48.70 to 49.70): V081
Ion 86.00 (85.70 to 86.70): V081
Ion 51.00 (50.70 to 51.70): V081



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\081721.D
Acq On : 18 Aug 2005 00:01
Sample : 251041-015,,
Misc : TAYLOR|017,,VBLK|MACTEC 95.4
MS Integration Params: rteint.p
Quant Time: Aug 18 8:58 2005

Vial: 3
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9540817.RES

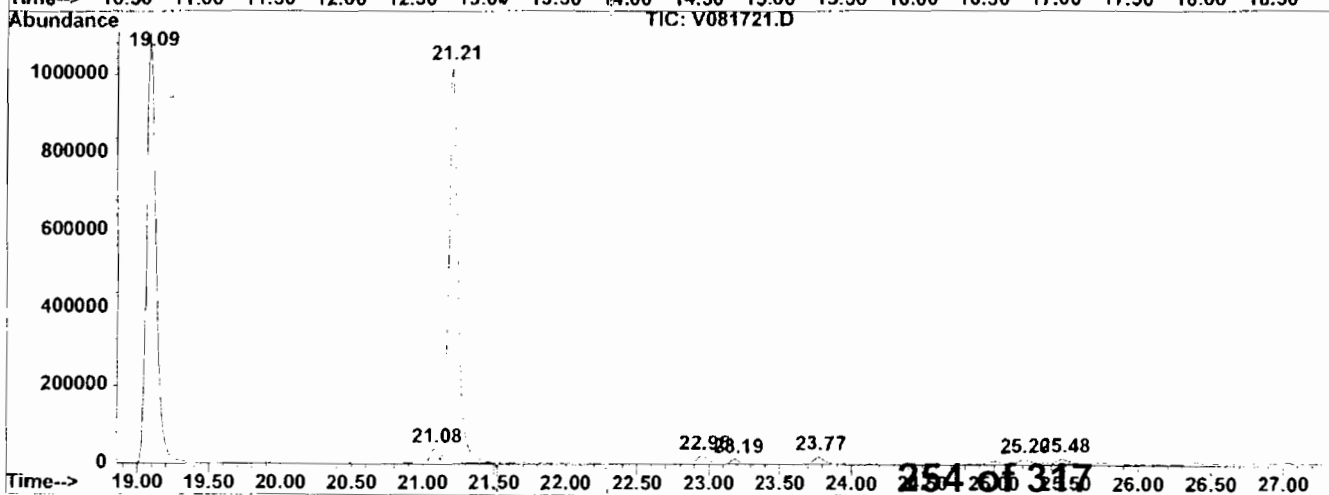
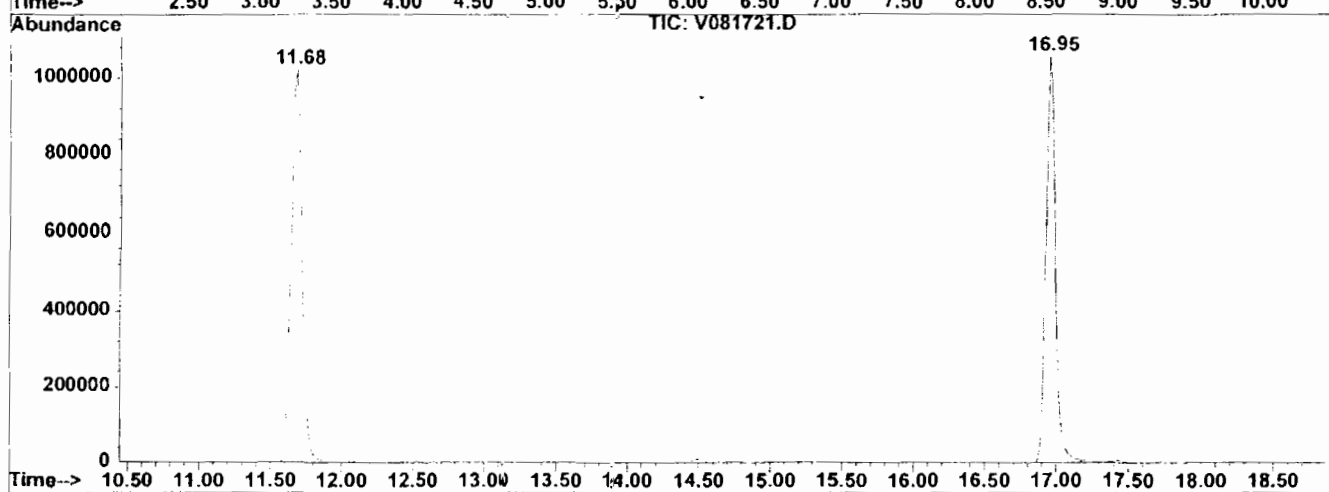
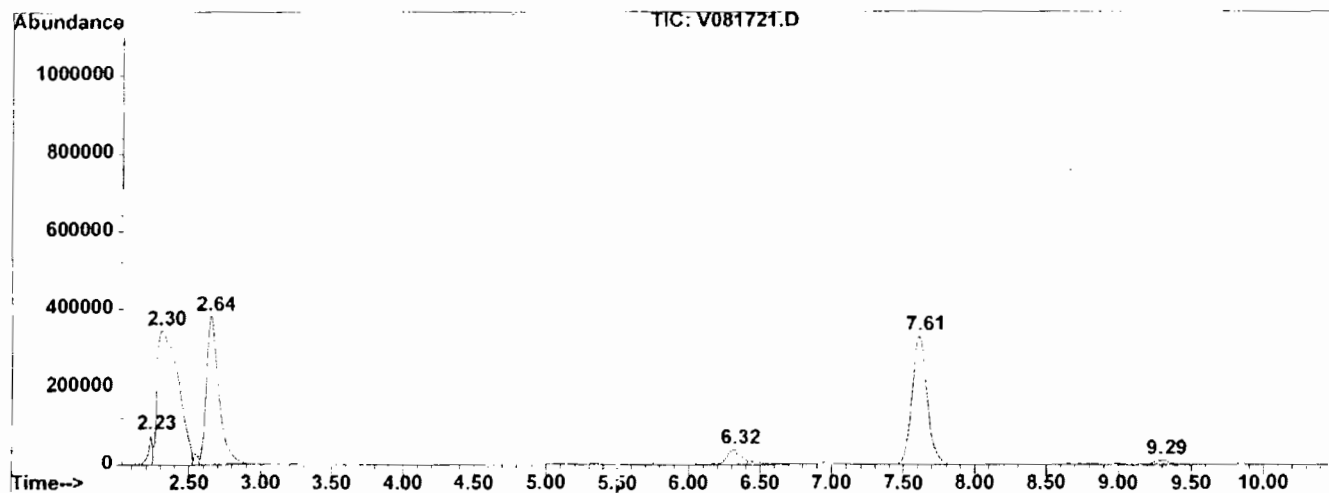
Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\081709.D
DataAcq Meth : 9540817

DM 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2146466	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1510374	5.00	ug/l	-0.02
32) 1,4-DICHLOROBENZENE-D4	21.21	152	803921	5.00	ug/l	0.00
System Monitoring Compounds						
20) Bromofluorobenzene	19.09	174	887603	5.13	ug/l	-0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.60%
Target Compounds						
8) Methylene Chloride	6.32	84	58159	0.59	ug/l #	84

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\081705.B\081721.D
 Operator : DMD
 Acquired : 18 Aug 2005 00:01 using AcqMethod 9540817
 Instrument : MSD
 Sample Name: 251041-015,,
 Misc Info : TAYLOR\017,,VBLK\MACTEC 95.4
 Vial Number: 3
 Quant File :9540817.RES (RTE Integrator)



Library Search Compound Report

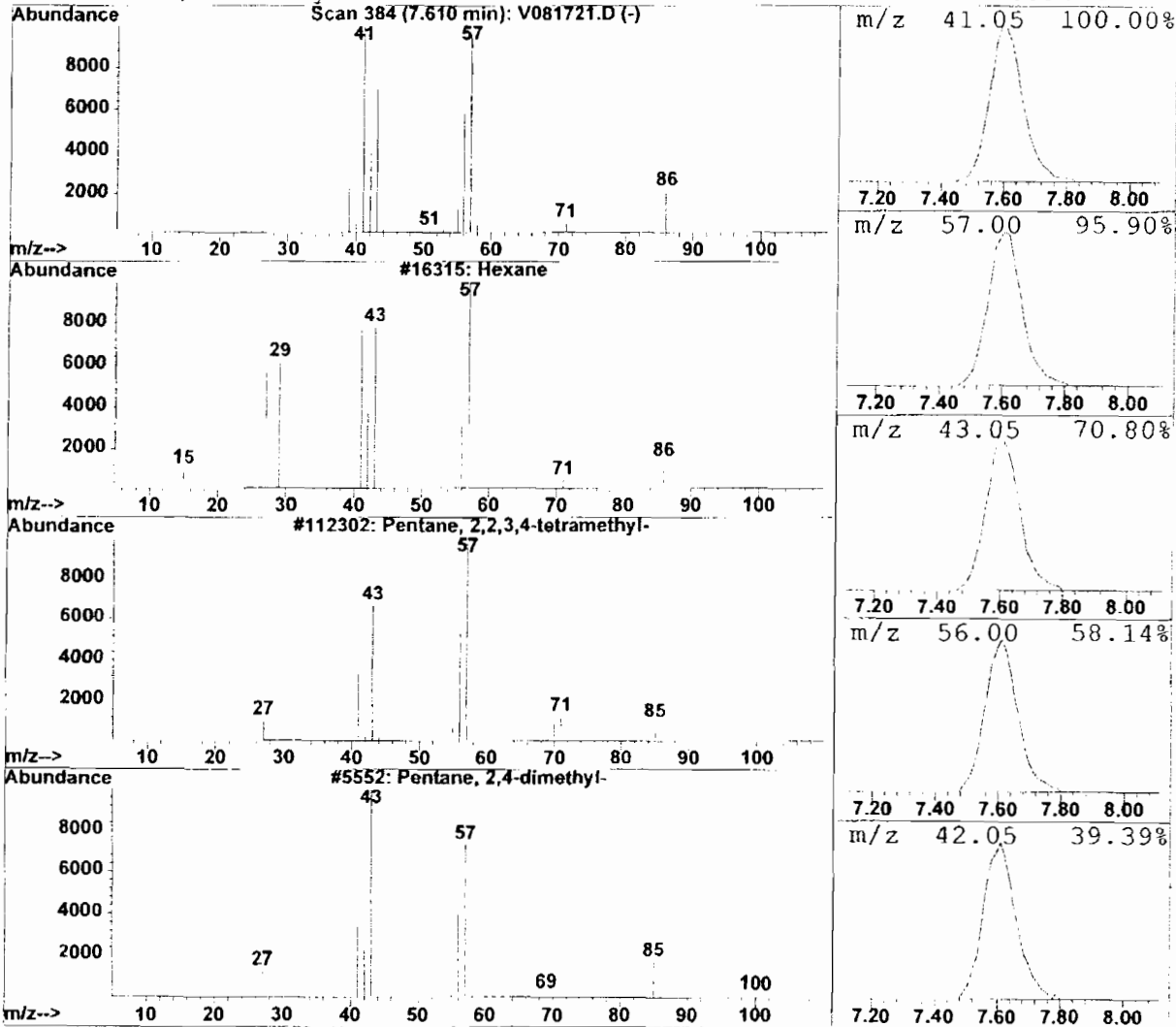
Data File : C:\HPCHEM\1\DATA\081705.B\081721.D
Acq On : 18 Aug 2005 00:01
Sample : 251041-015,,
Misc : TAYLOR|017,,VBLK|MACTEC 95.4
MS Integration Params: LSCINT.P

Vial: 3
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

Peak Number 3 Hexane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
7.61	2.28 ug/l	2439110	1,4-DIFLUOROBENZENE	11.68	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane	86	C6H14	000110-54-3	78
2	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	23
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	38
4	Pentane, 3-methyl-	86	C6H14	000096-14-0	25



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 00:01
 Data File: C:\HPCHEM\1\DATA\081705.B\V081721.D
 Name: 251041-015,,
 Misc: TAYLOR|017,,VBLK|MACTEC 95.4
 Method: C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title: VOA Standards for 5 point calibration
 Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, nitroso-	2.30	3.3	ug/l	3547230	ISTD01	11.68	5346470	5.0
Methane, chlorodiflu	2.64	2.2	ug/l	2300970	ISTD01	11.68	5346470	5.0
Hexane	7.61	2.3	ug/l	2439110	ISTD01	11.68	5346470	5.0

V081721.D 9540817.M Thu Aug 18 09:04:10 2005 MSD

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: 151 BHR
Date Sampled.....: 08/10/2005
Time Sampled.....: 17:10
Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-16
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0		U	1.0	ug/L	08/18/05	clmd
	Bromomethane	1.0		U	1.0	ug/L	08/18/05	clmd
	Vinyl chloride	1.0		U	1.0	ug/L	08/18/05	clmd
	Chloroethane	1.0		U	1.0	ug/L	08/18/05	clmd
	Methylene chloride	0.61		J	2.0	ug/L	08/18/05	clmd
	Acetone	5.0		U	5.0	ug/L	08/18/05	clmd
	Carbon disulfide	1.0		U	1.0	ug/L	08/18/05	clmd
	1,1-Dichloroethene	1.0		U	1.0	ug/L	08/18/05	clmd
	1,1-Dichloroethane	1.0		U	1.0	ug/L	08/18/05	clmd
	Chloroform	1.0		U	1.0	ug/L	08/18/05	clmd
	1,2-Dichloroethane	1.0		U	1.0	ug/L	08/18/05	clmd
	2-Butanone (MEK)	5.0		U	5.0	ug/L	08/18/05	clmd
	1,1,1-Trichloroethane	1.0		U	1.0	ug/L	08/18/05	clmd
	Carbon tetrachloride	1.0		U	1.0	ug/L	08/18/05	clmd
	Bromodichloromethane	1.0		U	1.0	ug/L	08/18/05	clmd
	1,2-Dichloropropane	1.0		U	1.0	ug/L	08/18/05	clmd
	cis-1,3-Dichloropropene	1.0		U	1.0	ug/L	08/18/05	clmd
	Trichloroethene	1.0		U	1.0	ug/L	08/18/05	clmd
	Dibromochloromethane	1.0		U	1.0	ug/L	08/18/05	clmd
	1,1,2-Trichloroethane	1.0		U	1.0	ug/L	08/18/05	clmd
	Benzene	1.0		U	1.0	ug/L	08/18/05	clmd
	trans-1,3-Dichloropropene	1.0		U	1.0	ug/L	08/18/05	clmd
	Bromoform	1.0		U	1.0	ug/L	08/18/05	clmd
	4-Methyl-2-pentanone (MIBK)	5.0		U	5.0	ug/L	08/18/05	clmd
	2-Hexanone	5.0		U	5.0	ug/L	08/18/05	clmd
	Tetrachloroethene	1.0		U	1.0	ug/L	08/18/05	clmd
	1,1,2,2-Tetrachloroethane	1.0		U	1.0	ug/L	08/18/05	clmd
	Toluene	1.0		U	1.0	ug/L	08/18/05	clmd
	Chlorobenzene	1.0		U	1.0	ug/L	08/18/05	clmd
	Ethylbenzene	1.0		U	1.0	ug/L	08/18/05	clmd
	Styrene	1.0		U	1.0	ug/L	08/18/05	clmd
	o-Xylene	1.0		U	1.0	ug/L	08/18/05	clmd
	m&p-Xylenes	1.0		U	1.0	ug/L	08/18/05	clmd
	cis-1,2-Dichloroethene	1.0		U	1.0	ug/L	08/18/05	clmd
	trans-1,2-Dichloroethene	1.0		U	1.0	ug/L	08/18/05	clmd
	Bromochloromethane	1.0		U	1.0	ug/L	08/18/05	clmd
	1,2-Dibromoethane (EDB)	1.0		U	1.0	ug/L	08/18/05	clmd
	1,3-Dichlorobenzene	1.0		U	1.0	ug/L	08/18/05	clmd
	1,4-Dichlorobenzene	1.0		U	1.0	ug/L	08/18/05	clmd
	1,2-Dichlorobenzene	1.0		U	1.0	ug/L	08/18/05	clmd
	1,2-Dibromo-3-chloropropane	1.0		U	1.0	ug/L	08/18/05	clmd
	Vinyl acetate	1.0		U	1.0	ug/L	08/18/05	clmd

* In Description = Dry Wgt.

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SEVERN
TRENT

STL

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 66-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

151 BHR

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-016
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081722.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.60	2.293	JN

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FORM VOA-TIC

3/90

NYS DOH 10142

NJ DEP 73015

CTC OHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

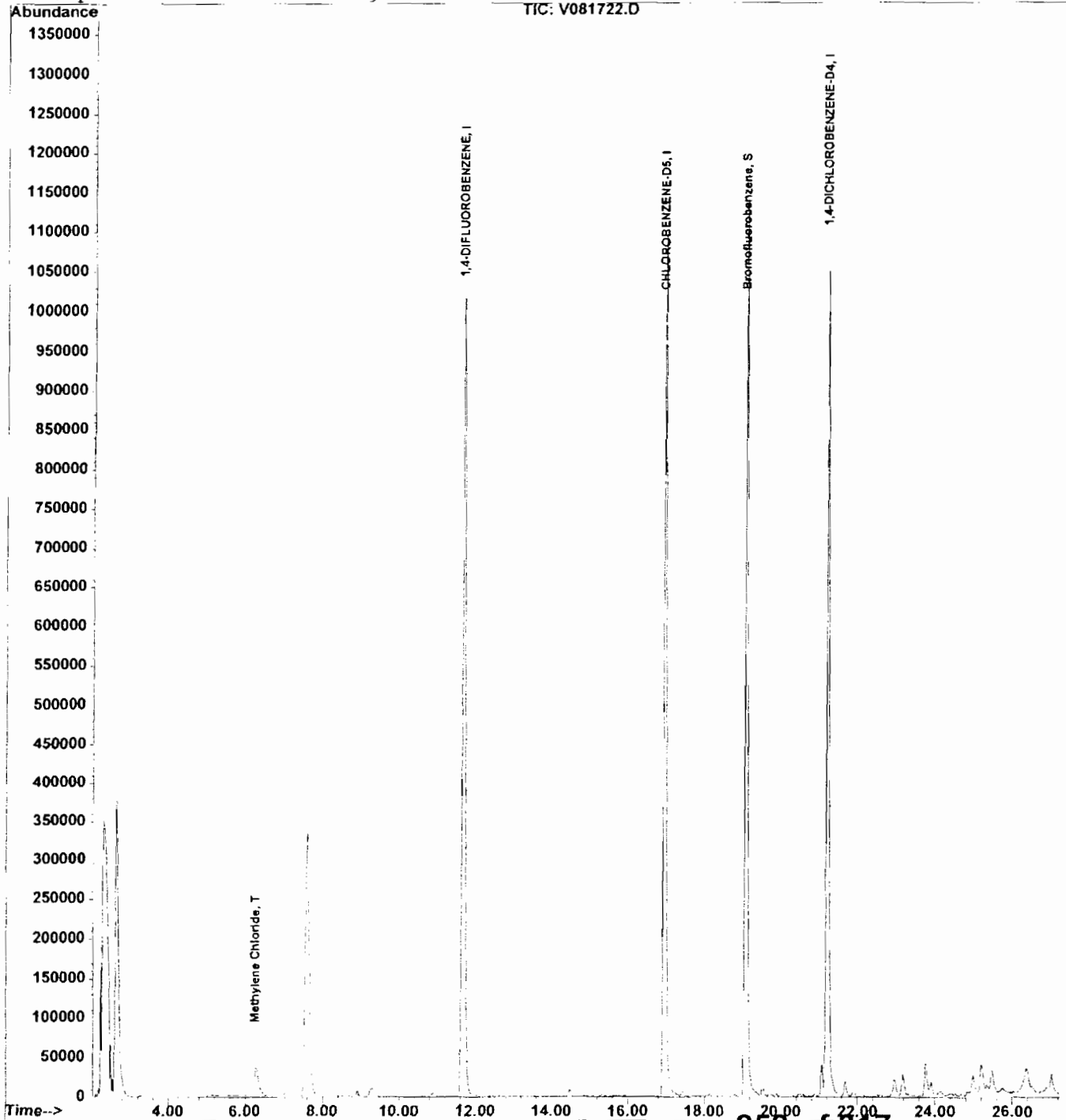
Quantitation Report

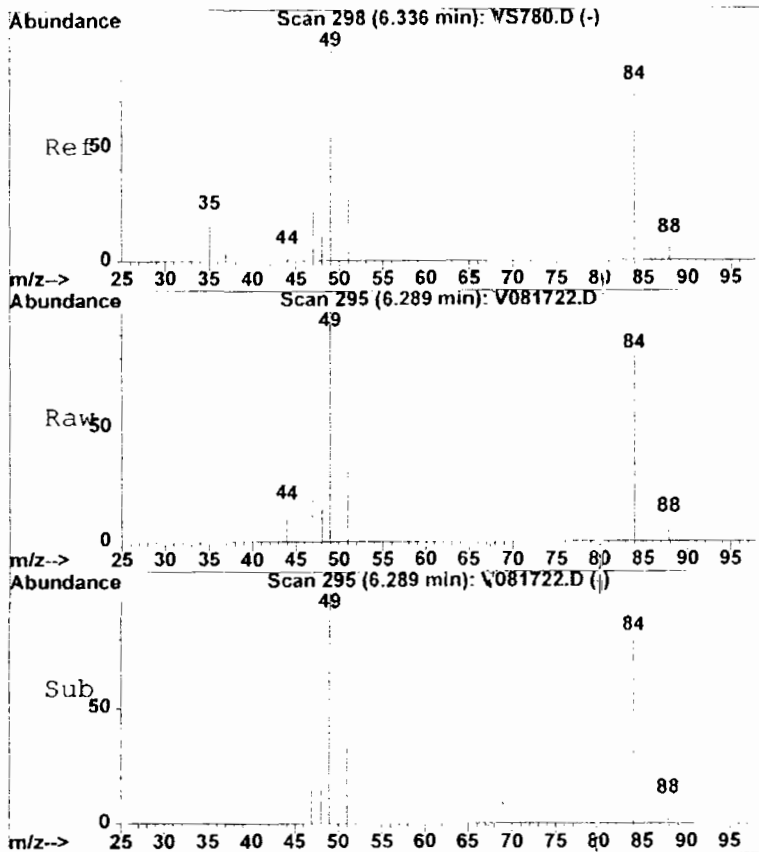
Data File : C:\HPCHEM\1\DATA\081705.B\V081722.D
Acq On : 18 Aug 2005 00:34
Sample : 251041-016,,
Misc : 151 BHR\017,,VBLK\MACTEC 95.4
MS Integration Params: rteint.p
Quant Time: Aug 18 8:59 2005

Vial: 4
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9540817.RES

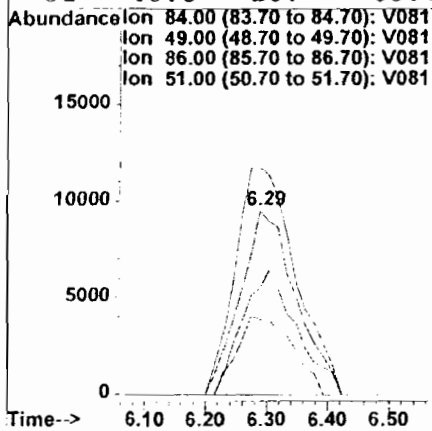
Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D





#8
Methylene Chloride
Concen: 0.61 ug/l
RT: 6.29 min Scan# 295
Delta R.T. 0.00 min
Lab File: V081722.D
Acq: 18 Aug 2005 00:34

Tgt Ion: 84 Resp: 60404
Ion Ratio Lower Upper
84 100
49 123.5 132.0 172.0#
86 57.9 43.6 83.6
51 40.5 28.7 68.7



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081722.D Vial: 4
Acq On : 18 Aug 2005 00:34 Operator: DMD
Sample : 251041-016,, Inst : MSD
Misc : 151 BHR\017,,VBLK\MACTEC 95.4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 8:59 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
DataAcq Meth : 9540817

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2147841	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1541137	5.00	ug/l	-0.01
32) 1,4-DICHLOROBENZENE-D4	21.20	152	817071	5.00	ug/l	-0.01

System Monitoring Compounds

20) Bromofluorobenzene	19.09	174	907625	5.24	ug/l	-0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
8) Methylene Chloride	6.29	84	60404	0.61	ug/l	# 83

(#) = qualifier out of range (m) = manual integration **261 of 317**

V081722.D 9540817.M

Thu Aug 18 09:04:16 2005

MSD

Page 1

100

Abundance

1000000

800000

600000

400000

200000

0

Time-->

2.24 2.30 2.49 2.64 6.30 7.60 9.29

TIC: V081722.D

Abundance

1000000

800000

600000

400000

200000

0

Time-->

11.67 16.95

TIC: V081722.D

Abundance

1000000

800000

600000

400000

200000

0

Time-->

19.09 21.08 21.20 21.69 22.01 23.18 23.77 23.90 24.95 25.48 26.37 27.04

TIC: V081722.D

V081722.D 9540817.M Thu Aug 18 09:04:27 2005 MSD

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081722.D
Acq On : 18 Aug 2005 00:34
Sample : 251041-016,,
Misc : 151 BHR|017,,VBLK|MACTEC 95.4
MS Integration Params: LSCINT.P

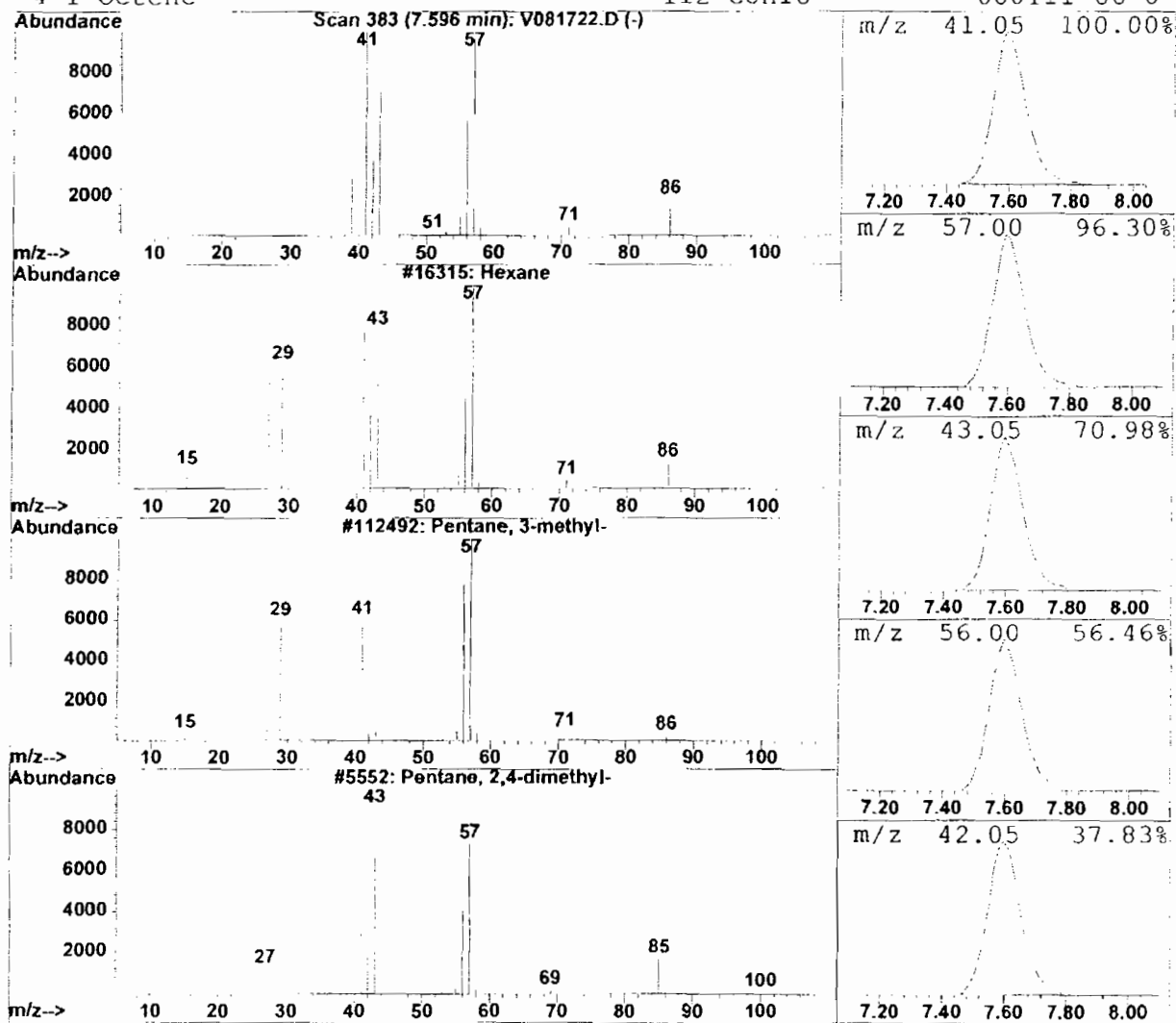
Vial: 4
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

Peak Number 3 Hexane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.60	2.29 ug/l	2454900	1,4-DIFLUOROBENZENE	11.68

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	91
2	Pentane, 3-methyl-			86	C6H14	000096-14-0	36
3	Pentane, 2,4-dimethyl-			100	C7H16	000108-08-7	36
4	1-Octene			112	C8H16	000111-66-0	33



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 18 Aug 2005 00:34
 Data File: C:\HPCHEM\1\DATA\081705.B\081722.D
 Name: 251041-016,,
 Misc: 151 BHR|017,,VBLK|MACTEC 95.4
 Method: C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title: VOA Standards for 5 point calibration
 Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc Units	Area	IntStd	ISRT	ISArea	ISConc
Methane, nitroso-	2.30	3.0 ug/l	3198100	ISTD01	11.68	5353080	5.0
Methane, chlorodiflu	2.64	2.1 ug/l	2277080	ISTD01	11.68	5353080	5.0
Hexane	7.60	2.3 ug/l	2454900	ISTD01	11.68	5353080	5.0

V081722.D 9540817.M Thu Aug 18 09:04:30 2005 MSD

Response Factor Report MSD

Method : Z:\MSD\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Calibration

Calibration Files

1 =V081707.D 2 =V081708.D 5 =V081709.D
 10 =V081710.D 25 =V081711.D

Compound	1	2	5	10	25	Avg	%RSD
1) I 1,4-DIFLUOROBENZENE	-----ISTD-----						
2) T Dichlorodifluorometha	0.566	0.517	0.514	0.460	0.429	0.497	10.76
3) T Chloromethane	0.264	0.241	0.244	0.222	0.212	0.236	8.68
4) TC Bromomethane	0.280	0.275	0.278	0.261	0.249	0.268	4.98
5) TCM Vinyl Chloride	0.286	0.247	0.248	0.231	0.224	0.247	9.73
6) T Chloroethane	0.156	0.155	0.155	0.152	0.147	0.153	2.51
7) T Trichlorofluoromethan	0.593	0.589	0.617	0.615	0.623	0.608	2.53
8) T Methylene Chloride	0.304	0.241	0.231	0.207	0.208	0.238	16.58
9) T Acetone	0.014	0.015	0.014	0.013	0.015	0.014	5.60
10) T Carbon Disulfide	0.634	0.596	0.721	0.745	0.829	0.705	13.16
11) TC 1,1-Dichloroethene	0.326	0.316	0.331	0.315	0.342	0.326	3.48
12) TC 1,1-Dichloroethane	0.562	0.550	0.572	0.563	0.556	0.561	1.49
13) T trans-1,2-Dichloroeth	0.342	0.335	0.362	0.346	0.344	0.346	2.80
14) T cis-1,2-Dichloroethen	0.289	0.276	0.284	0.286	0.283	0.284	1.77
15) TC Chloroform	0.614	0.598	0.606	0.599	0.592	0.602	1.38
16) TCM 1,2-Dichloroethane	0.226	0.225	0.220	0.222	0.215	0.221	1.99
17) T 2-Butanone	0.017	0.018	0.019	0.019	0.021	0.019	7.29
18) TC Bromochloromethane	0.125	0.126	0.127	0.129	0.128	0.127	1.15
19) T Vinyl Acetate	0.078	0.035	0.040	0.043	0.058	0.051	34.62
20) S Bromofluorobenzene	0.366	0.386	0.403	0.380	0.390	0.385	3.52
21) I CHLOROBENZENE-D5	-----ISTD-----						
22) TC 1,1,1-Trichloroethane	0.973	0.939	0.965	0.997	0.968	0.968	2.17
23) TCM Carbon Tetrachloride	0.908	0.905	0.936	0.986	0.945	0.936	3.54
24) TC Bromodichloromethane	0.509	0.511	0.540	0.572	0.590	0.544	6.65
25) TM 1,2-Dichloropropane	0.378	0.371	0.364	0.373	0.359	0.369	2.05
26) TCM cis-1,3-Dichloroprope	0.331	0.352	0.384	0.401	0.428	0.379	10.15
27) TCM Trichloroethene	0.699	0.710	0.708	0.721	0.685	0.705	1.90
28) TCM Benzene	1.227	1.210	1.182	1.209	1.137	1.193	2.96
29) TC Dibromochloromethane	0.270	0.304	0.350	0.383	0.406	0.343	16.27
30) TC trans-1,3-Dichloropro	0.196	0.196	0.238	0.260	0.281	0.234	16.27
31) TCM 1,1,2-Trichloroethane	0.174	0.187	0.180	0.177	0.176	0.179	2.77
32) I 1,4-DICHLOROBENZENE-D	-----ISTD-----						
33) T 4-Methyl-2-Pentanone	0.162	0.150	0.155	0.152	0.159	0.155	3.31
34) T 2-Hexanone	0.109	0.103	0.104	0.105	0.115	0.107	4.71
35) TCM Tetrachloroethene	2.029	1.873	1.881	1.814	1.770	1.873	5.23
36) TC 1,1,2,2-Tetrachloroet	0.344	0.363	0.368	0.370	0.368	0.363	2.96
37) TC Toluene	2.940	2.667	2.735	2.635	2.665	2.728	4.53
38) TCM 1,2-Dibromoethane	0.482	0.479	0.490	0.484	0.498	0.487	1.55
39) TC Chlorobenzene	2.047	1.934	1.945	1.850	1.848	1.925	4.26
40) TC Ethylbenzene	3.699	3.513	3.660	3.521	3.515	3.582	2.52
41) TC m,p-Xylene	1.384	1.326	1.358	1.299	1.278	1.329	3.23
42) TC o-Xylene	1.165	1.127	1.162	1.126	1.107	1.137	2.23
43) TC Styrene	1.506	1.514	1.588	1.537	1.575	1.544	2.35
44) TCM Bromoform	0.234	0.263	0.307	0.366	0.418	0.317	23.63#
45) TC 1,3-Dichlorobenzene	1.774	1.727	1.759	1.738	1.707	1.741	1.52
46) TCM 1,4-Dichlorobenzene	1.841	1.785	1.731	1.697	1.667	1.744	4.00
47) TC 1,2-Dichlorobenzene	1.309	1.273	1.278	1.230	1.183	1.255	3.89
48) T 1,2-Dibromo-3-Chlorop	0.025	0.033	0.042	0.051	0.052	0.041	28.40

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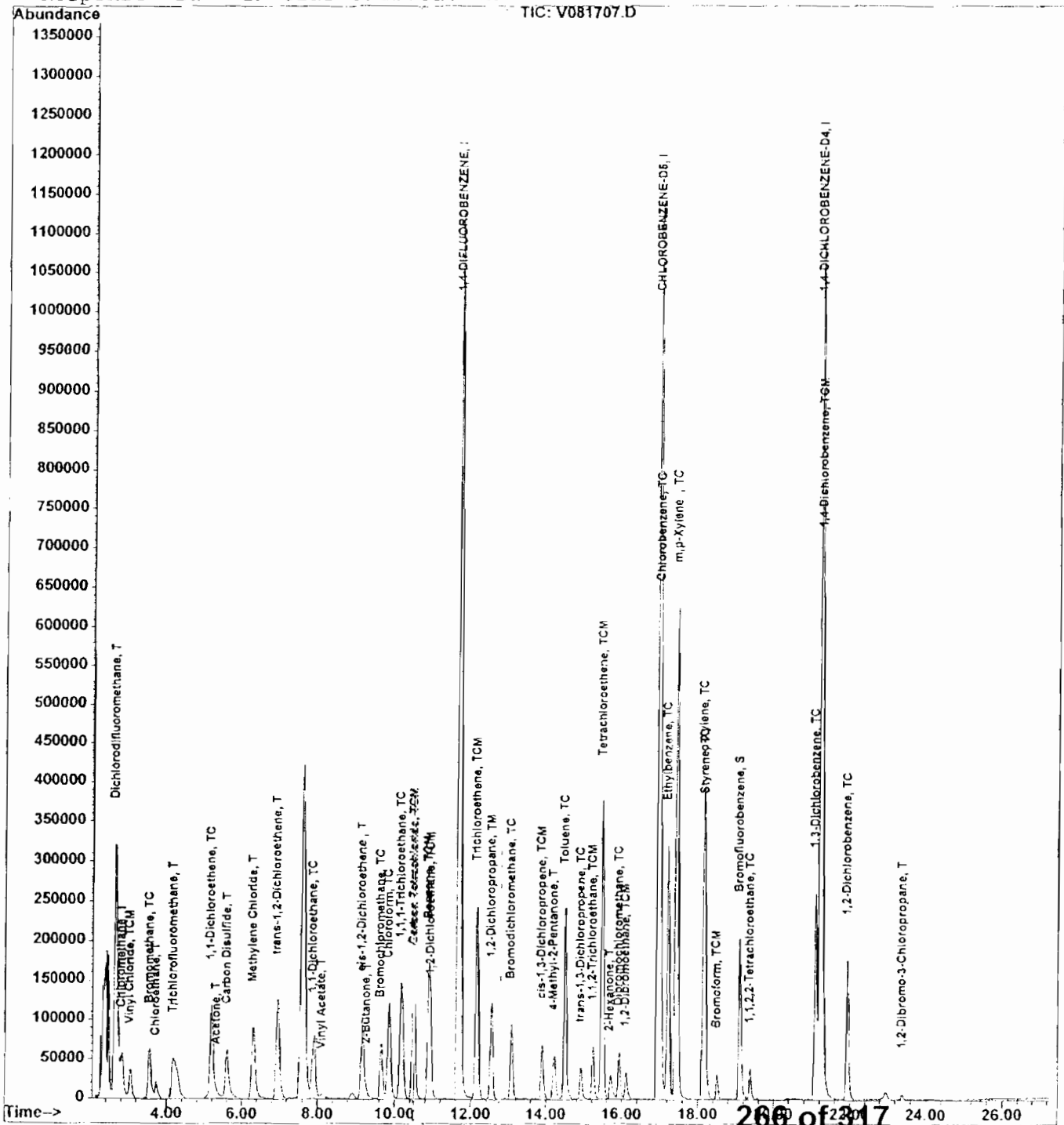
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\081707.D
 Acq On : 17 Aug 2005 15:51
 Sample : 001,,VSTD
 Misc : VSTD001
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:19 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:11:23 2005
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\081705.B\081707.D

Vial: 6

Acq On : 17 Aug 2005 15:51

Operator: DMD

Sample : 001,,VSTD

Inst : MSD

Misc : VSTD001

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 16:19 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

DMD
6/17/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2358031	5.00	ug/l	-0.06
21) CHLOROBENZENE-D5	16.97	117	1549182	5.00	ug/l	-0.07
32) 1,4-DICHLOROBENZENE-D4	21.22	152	800471	5.00	ug/l	-0.06

System Monitoring Compounds

20) Bromofluorobenzene	19.11	174	172713	1.01	ug/l	-0.06
Spiked Amount	5.000	Range	60 - 140	Recovery	=	20.20%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.64	85	266784	1.41 ug/l	# 97
3) Chloromethane	2.81	50	124709	1.10 ug/l	99
4) Bromomethane	3.55	94	132069	1.01 ug/l	92
5) Vinyl Chloride	3.04	62	134745	1.06 ug/l	92
6) Chloroethane	3.72	64	73527	0.90 ug/l	94
7) Trichlorofluoromethane	4.18	101	279758	0.75 ug/l	99
8) Methylene Chloride	6.30	84	143300	1.59 ug/l	88
9) Acetone	5.32	43	32035	6.50 ug/l	# 50
10) Carbon Disulfide	5.61	76	298814	0.88 ug/l	100
11) 1,1-Dichloroethene	5.18	96	153549	1.06 ug/l	98
12) 1,1-Dichloroethane	7.89	63	265265	0.97 ug/l	95
13) trans-1,2-Dichloroethene	6.94	96	161280	0.98 ug/l	98
14) cis-1,2-Dichloroethene	9.17	96	136521	1.09 ug/l	94
15) Chloroform	9.85	83	289421	1.03 ug/l	96
16) 1,2-Dichloroethane	10.95	62	106378	1.19 ug/l	100
17) 2-Butanone	9.29	43	39945	5.31 ug/l	97
18) Bromochloromethane	9.65	128	58955	1.07 ug/l	# 90
19) Vinyl Acetate	8.12	43	36909	0.87 ug/l	# 72
22) 1,1,1-Trichloroethane	10.17	97	301474	0.87 ug/l	98
23) Carbon Tetrachloride	10.51	117	281293	0.76 ug/l	98
24) Bromodichloromethane	13.09	83	157589	0.98 ug/l	99
25) 1,2-Dichloropropane	12.56	63	117173	1.02 ug/l	99
26) cis-1,3-Dichloropropene	13.91	75	102569	0.91 ug/l	97
27) Trichloroethene	12.16	95	216468	0.94 ug/l	96
28) Benzene	10.89	78	380109	1.04 ug/l	100
29) Dibromochloromethane	15.94	129	83737	0.81 ug/l	100
30) trans-1,3-Dichloropropene	14.93	75	60595	0.85 ug/l	99
31) 1,1,2-Trichloroethane	15.25	97	53763	1.06 ug/l	90
33) 4-Methyl-2-Pentanone	14.21	43	129794	6.08 ug/l	94
34) 2-Hexanone	15.71	43	87192	6.35 ug/l	98
35) Tetrachloroethene	15.48	166	324803	1.11 ug/l	99
36) 1,1,2,2-Tetrachloroethane	19.39	83	55079	1.06 ug/l	92

(#) = qualifier out of range (m) = manual integration 267 of 317

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081707.D

Vial: 6

Acq On : 17 Aug 2005 15:51

Operator: DMD

Sample : 001,,VSTD

Inst : MSD

Misc : VSTD001

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 16:19 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Toluene	14.50	91	470631	1.13	ug/l	98
38) 1,2-Dibromoethane	16.12	107	77236	1.11	ug/l #	95
39) Chlorobenzene	17.01	112	327745	1.16	ug/l	98
40) Ethylbenzene	17.22	91	592194	1.05	ug/l	100
41) m,p-Xylene	17.44	106	443183	2.23	ug/l	89
42) o-Xylene	18.16	106	186553	1.14	ug/l	99
43) Styrene	18.19	104	241120	1.11	ug/l	100
44) Bromoform	18.51	173	37472	0.78	ug/l	96
45) 1,3-Dichlorobenzene	21.10	146	284062	1.07	ug/l	94
46) 1,4-Dichlorobenzene	21.26	146	294771	1.17	ug/l	96
47) 1,2-Dichlorobenzene	21.94	146	209558	1.15	ug/l	98
48) 1,2-Dibromo-3-Chloropropan	23.40	75	4054	0.64	ug/l #	79

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

V081707.D 9540817.M

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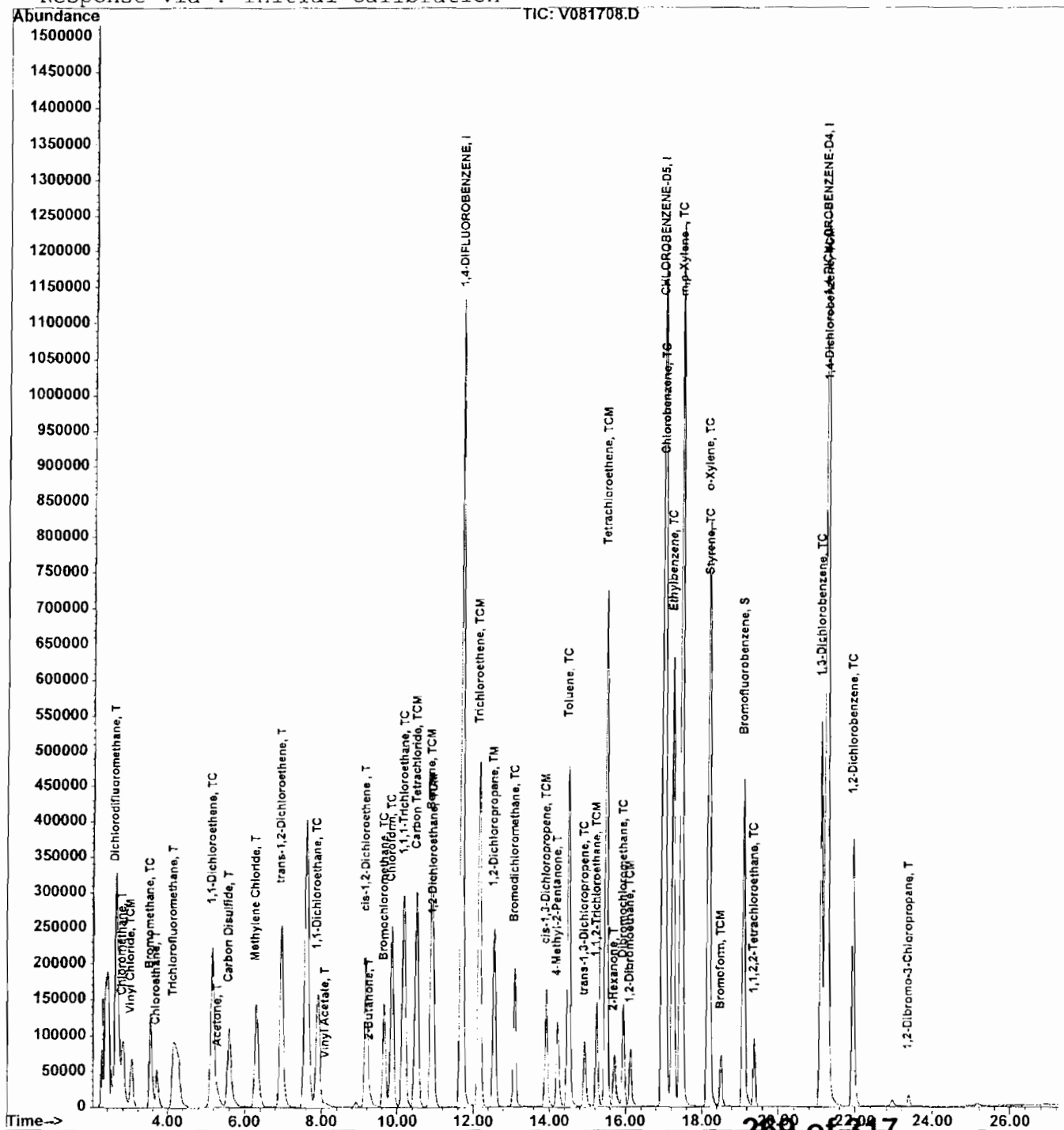
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081708.D
Acq On : 17 Aug 2005 16:45
Sample : 002,,VSTD
Misc : VSTD002
MS Integration Params: rteint.p
Quant Time: Aug 17 18:36 2005

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:11:23 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081708.D

Vial: 6

Acq On : 17 Aug 2005 16:45

Operator: DMD

Sample : 002,,VSTD

Inst : MSD

Misc : VSTD002

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 18:36 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

DMD
8/17/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.69	114	2391955	5.00	ug/l	-0.04
21) CHLOROBENZENE-D5	16.97	117	1580199	5.00	ug/l	-0.07
32) 1,4-DICHLOROBENZENE-D4	21.22	152	837796	5.00	ug/l	-0.06

System Monitoring Compounds

20) Bromofluorobenzene	19.11	174	369120	2.13	ug/l	-0.06
Spiked Amount	5.000	Range	60 - 140	Recovery	=	42.60%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.61	85	494717	2.58 ug/l	99
3) Chloromethane	2.81	50	230229	1.99 ug/l	94
4) Bromomethane	3.53	94	262771	1.98 ug/l	98
5) Vinyl Chloride	3.04	62	236063	1.84 ug/l	95
6) Chloroethane	3.70	64	148571	1.80 ug/l	92
7) Trichlorofluoromethane	4.16	101	563749	1.49 ug/l	92
8) Methylene Chloride	6.29	84	230634	2.53 ug/l	89
9) Acetone	5.32	43	71977	14.39 ug/l	97
10) Carbon Disulfide	5.61	76	569881	1.65 ug/l	96
11) 1,1-Dichloroethene	5.17	96	302036	2.05 ug/l	98
12) 1,1-Dichloroethane	7.89	63	526032	1.89 ug/l	99
13) trans-1,2-Dichloroethene	6.94	96	320887	1.93 ug/l	99
14) cis-1,2-Dichloroethene	9.17	96	263957	2.08 ug/l	94
15) Chloroform	9.85	83	572091	2.00 ug/l	95
16) 1,2-Dichloroethane	10.95	62	215396	2.39 ug/l	98
17) 2-Butanone	9.27	43	87932	11.53 ug/l	95
18) Bromochloromethane	9.65	128	120533	2.16 ug/l	91
19) Vinyl Acetate	8.10	43	33055m ^{pm}	0.77 ug/l	
22) 1,1,1-Trichloroethane	10.18	97	593233	1.67 ug/l	98
23) Carbon Tetrachloride	10.51	117	572029	1.51 ug/l	97
24) Bromodichloromethane	13.09	83	322928	1.96 ug/l	99
25) 1,2-Dichloropropane	12.54	63	234283	1.99 ug/l	96
26) cis-1,3-Dichloropropene	13.91	75	222770	1.94 ug/l	94
27) Trichloroethene	12.14	95	448889	1.91 ug/l	92
28) Benzene	10.89	78	765045	2.05 ug/l	100
29) Dibromochloromethane	15.94	129	192397	1.83 ug/l	98
30) trans-1,3-Dichloropropene	14.92	75	124138	1.70 ug/l	99
31) 1,1,2-Trichloroethane	15.24	97	117949	2.29 ug/l	95
33) 4-Methyl-2-Pentanone	14.21	43	250673	11.22 ug/l	94
34) 2-Hexanone	15.71	43	171937	11.97 ug/l	97
35) Tetrachloroethene	15.43	166	627676	2.05 ug/l	98
36) 1,1,2,2-Tetrachloroethane	19.39	83	121612	2.24 ug/l	96

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

V081708.D 9540817.M

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MSD

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081708.D

Vial: 6

Acq On : 17 Aug 2005 16:45

Operator: DMD

Sample : 002,,VSTD

Inst : MSD

Misc : VSTD002

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 18:36 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Toluene	14.49	91	893915	2.06	ug/l	96
38) 1,2-Dibromoethane	16.12	107	160440	2.19	ug/l	99
39) Chlorobenzene	17.01	112	647982	2.20	ug/l	94
40) Ethylbenzene	17.22	91	1177294	2.00	ug/l	100
41) m,p-Xylene	17.44	106	888774	4.28	ug/l	92
42) o-Xylene	18.16	106	377680	2.20	ug/l	98
43) Styrene	18.19	104	507229	2.23	ug/l	96
44) Bromoform	18.51	173	87973	1.74	ug/l #	98
45) 1,3-Dichlorobenzene	21.10	146	578608	2.09	ug/l	96
46) 1,4-Dichlorobenzene	21.26	146	598319	2.26	ug/l	96
47) 1,2-Dichlorobenzene	21.94	146	426642	2.23	ug/l	99
48) 1,2-Dibromo-3-Chloropropan	23.38	75	11102	1.67	ug/l #	75

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

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V081708.D 9540817.M

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MSD

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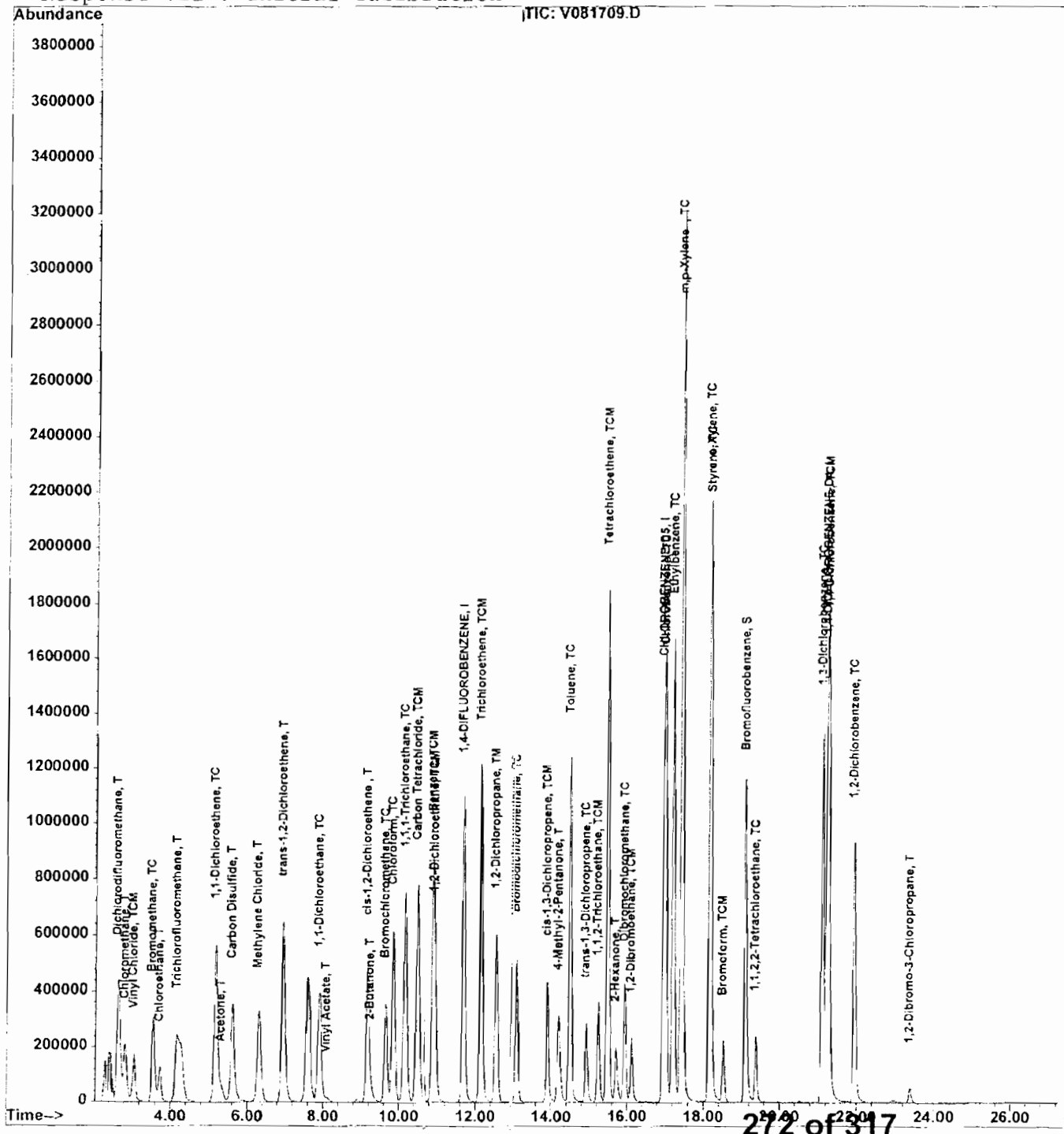
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081709.D
 Acq On : 17 Aug 2005 17:17
 Sample : 005,,VSTD
 Misc : VSTD005
 MS Integration Params: rteint.p
 Quant Time: Aug 17 17:44 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:11:23 2005
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081709.D

Vial: 6

Acq On : 17 Aug 2005 17:17

Operator: DMD

Sample : 005,,VSTD

Inst : MSD

Misc : VSTD005

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 17:44 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

DMD
8/17/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2281962	5.00	ug/l	-0.06
21) CHLOROBENZENE-D5	16.97	117	1564506	5.00	ug/l	-0.07
32) 1,4-DICHLOROBENZENE-D4	21.22	152	834943	5.00	ug/l	-0.06

System Monitoring Compounds

20) Bromofluorobenzene	19.11	174	920208	5.55	ug/l	-0.06
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.63	85	1172646	6.42 ug/l	98
3) Chloromethane	2.83	50	556800	5.05 ug/l	98
4) Bromomethane	3.54	94	634756	5.02 ug/l	94
5) Vinyl Chloride	3.05	62	565734	4.61 ug/l	99
6) Chloroethane	3.72	64	352679	4.48 ug/l	93
7) Trichlorofluoromethane	4.18	101	1409043	3.91 ug/l	99
8) Methylene Chloride	6.29	84	526591	6.04 ug/l	90
9) Acetone	5.32	43	159648	33.46 ug/l	94
10) Carbon Disulfide	5.61	76	1645262	5.00 ug/l	100
11) 1,1-Dichloroethene	5.17	96	755555	5.38 ug/l	99
12) 1,1-Dichloroethane	7.91	63	1305657	4.92 ug/l	98
13) trans-1,2-Dichloroethene	6.96	96	825223	5.20 ug/l	98
14) cis-1,2-Dichloroethene	9.17	96	648379	5.36 ug/l	97
15) Chloroform	9.85	83	1383270	5.06 ug/l	98
16) 1,2-Dichloroethane	10.94	62	501966	5.83 ug/l	98
17) 2-Butanone	9.24	43	220129	30.25 ug/l	99
18) Bromochloromethane	9.65	128	290402	5.44 ug/l	# 91
19) Vinyl Acetate	8.10	43	92007	2.25 ug/l	95
22) 1,1,1-Trichloroethane	10.17	97	1509841	4.30 ug/l	97
23) Carbon Tetrachloride	10.49	117	1464725	3.91 ug/l	99
24) Bromodichloromethane	13.09	83	844698	5.18 ug/l	99
25) 1,2-Dichloropropane	12.54	63	569252	4.88 ug/l	100
26) cis-1,3-Dichloropropene	13.91	75	600015	5.28 ug/l	97
27) Trichloroethene	12.14	95	1108106	4.75 ug/l	93
28) Benzene	10.89	78	1848539	4.99 ug/l	100
29) Dibromochloromethane	15.94	129	548071	5.25 ug/l	98
30) trans-1,3-Dichloropropene	14.92	75	371841	5.14 ug/l	97
31) 1,1,2-Trichloroethane	15.23	97	281592	5.52 ug/l	96
33) 4-Methyl-2-Pentanone	14.21	43	646271	29.02 ug/l	98
34) 2-Hexanone	15.71	43	432521	30.21 ug/l	97
35) Tetrachloroethene	15.47	166	1570333	5.14 ug/l	98
36) 1,1,2,2-Tetrachloroethane	19.37	83	307595	5.68 ug/l	96

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

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705 B\V081709.D
 Acq On : 17 Aug 2005 17:17
 Sample : 005,,VSTD
 Misc : VSTD005
 MS Integration Params: rteint.p
 Quant Time: Aug 17 17:44 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Thu Jul 22 14:35:12 2004
 Response via : Initial Calibration
 DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Toluene	14.49	91	2283255	5.27 ug/l	97
38) 1,2-Dibromoethane	16.12	107	409023	5.61 ug/l #	99
39) Chlorobenzene	17.01	112	1623556	5.52 ug/l	97
40) Ethylbenzene	17.22	91	3055548	5.21 ug/l	100
41) m,p-Xylene	17.43	106	2267720	10.95 ug/l	98
42) o-Xylene	18.15	106	970056	5.68 ug/l	98
43) Styrene	18.17	104	1325804	5.85 ug/l	96
44) Bromoform	18.51	173	256053	5.10 ug/l #	94
45) 1,3-Dichlorobenzene	21.10	146	1468489	5.32 ug/l	96
46) 1,4-Dichlorobenzene	21.25	146	1445029	5.49 ug/l	96
47) 1,2-Dichlorobenzene	21.94	146	1067269	5.61 ug/l	99
48) 1,2-Dibromo-3-Chloropropan	23.33	75	35251	5.31 ug/l	93

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

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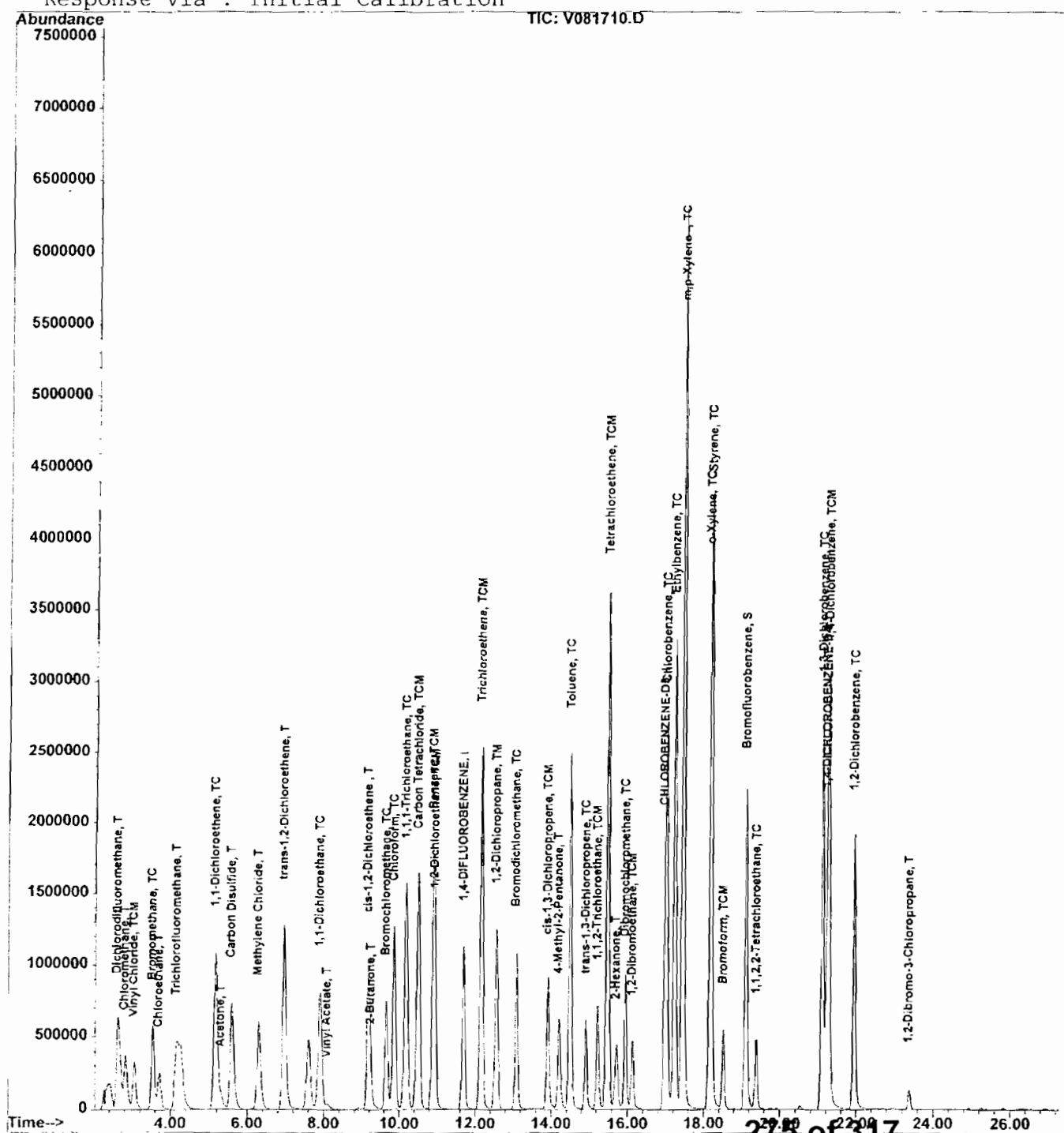
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\081710.D
 Acq On : 17 Aug 2005 18:05
 Sample : 010,,VSTD
 Misc : VSTD010
 MS Integration Params: rteint.p
 Quant Time: Aug 17 18:38 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:11:23 2005
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\VO81710.D

Vial: 6

Acq On : 17 Aug 2005 18:05

Operator: DMD

Sample : 010,,VSTD

Inst : MSD

Misc : VSTD010

Multiplr: 1.00

MS Integration Params: rteint p

Quant Time: Aug 17 18:38 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

DMD
8/17/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2362942	5.00	ug/l	-0.06
21) CHLOROBENZENE-D5	16.97	117	1582693	5.00	ug/l	-0.07
32) 1,4-DICHLOROBENZENE-D4	21.21	152	858479	5.00	ug/l	-0.06

System Monitoring Compounds

20) Bromofluorobenzene	19.11	174	1796752	10.47	ug/l	-0.06
Spiked Amount	5.000	Range	60 - 140	Recovery	=	209.40%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.61	85	2171744	11.48 ug/l	99
3) Chloromethane	2.81	50	1046924	9.18 ug/l	98
4) Bromomethane	3.53	94	1233316	9.42 ug/l	98
5) Vinyl Chloride	3.05	62	1090043	8.58 ug/l	94
6) Chloroethane	3.71	64	717833	8.81 ug/l	95
7) Trichlorofluoromethane	4.16	101	2906047m	7.79 ug/l	
8) Methylene Chloride	6.29	84	979979	10.86 ug/l	90
9) Acetone	5.32	43	315458	63.86 ug/l	95
10) Carbon Disulfide	5.59	76	3521806	10.33 ug/l	100
11) 1,1-Dichloroethene	5.16	96	1490480	10.26 ug/l	95
12) 1,1-Dichloroethane	7.89	63	2659421	9.68 ug/l	99
13) trans-1,2-Dichloroethene	6.94	96	1634734	9.95 ug/l	99
14) cis-1,2-Dichloroethene	9.15	96	1352582	10.81 ug/l	96
15) Chloroform	9.85	83	2831788	10.01 ug/l	98
16) 1,2-Dichloroethane	10.94	62	1047870	11.75 ug/l	98
17) 2-Butanone	9.24	43	454887	60.37 ug/l	100
18) Bromochloromethane	9.64	128	608641	11.02 ug/l #	90
19) Vinyl Acetate	8.03	43	203860	4.81 ug/l #	94
22) 1,1,1-Trichloroethane	10.15	97	3157382	8.88 ug/l	98
23) Carbon Tetrachloride	10.43	117	3122483	8.25 ug/l	94
24) Bromodichloromethane	13.03	83	1810105	10.96 ug/l	96
25) 1,2-Dichloropropane	12.54	63	1180277	10.01 ug/l	100
26) cis-1,3-Dichloropropene	13.91	75	1268654	11.05 ug/l	93
27) Trichloroethene	12.14	95	2281287	9.67 ug/l	96
28) Benzene	10.89	78	3825757	10.21 ug/l	100
29) Dibromochloromethane	15.94	129	1213355	11.49 ug/l	100
30) trans-1,3-Dichloropropene	14.92	75	822420	11.23 ug/l	98
31) 1,1,2-Trichloroethane	15.23	97	561782	10.89 ug/l	95
33) 4-Methyl-2-Pentanone	14.19	43	1301184	56.82 ug/l	99
34) 2-Hexanone	15.70	43	903738	61.39 ug/l	94
35) Tetrachloroethene	15.48	166	3114313	9.92 ug/l	99
36) 1,1,2,2-Tetrachloroethane	19.39	83	635757	11.41 ug/l	96

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

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081710.D Vial: 6
Acq On : 17 Aug 2005 18:05 Operator: DMD
Sample : 010,,VSTD Inst : MSD
Misc : VSTD010 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 17 18:38 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Jul 22 14:35:12 2004
Response via : Initial Calibration
DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Toluene	14.49	91	4524395	10.17	ug/l	97
38) 1,2-Dibromoethane	16.12	107	831290	11.10	ug/l #	99
39) Chlorobenzene	17.01	112	3177153	10.51	ug/l	97
40) Ethylbenzene	17.22	91	6046065	10.03	ug/l	100
41) m,p-Xylene	17.44	106	4461958	20.96	ug/l	90
42) o-Xylene	18.14	106	1932672	11.00	ug/l	98
43) Styrene	18.17	104	2639540	11.33	ug/l	95
44) Bromoform	18.51	173	628871	12.17	ug/l #	96
45) 1,3-Dichlorobenzene	21.10	146	2983774	10.52	ug/l	97
46) 1,4-Dichlorobenzene	21.26	146	2913451	10.76	ug/l	99
47) 1,2-Dichlorobenzene	21.94	146	2111312	10.79	ug/l	98
48) 1,2-Dibromo-3-Chloropropan	23.38	75	87736	12.85	ug/l	96

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

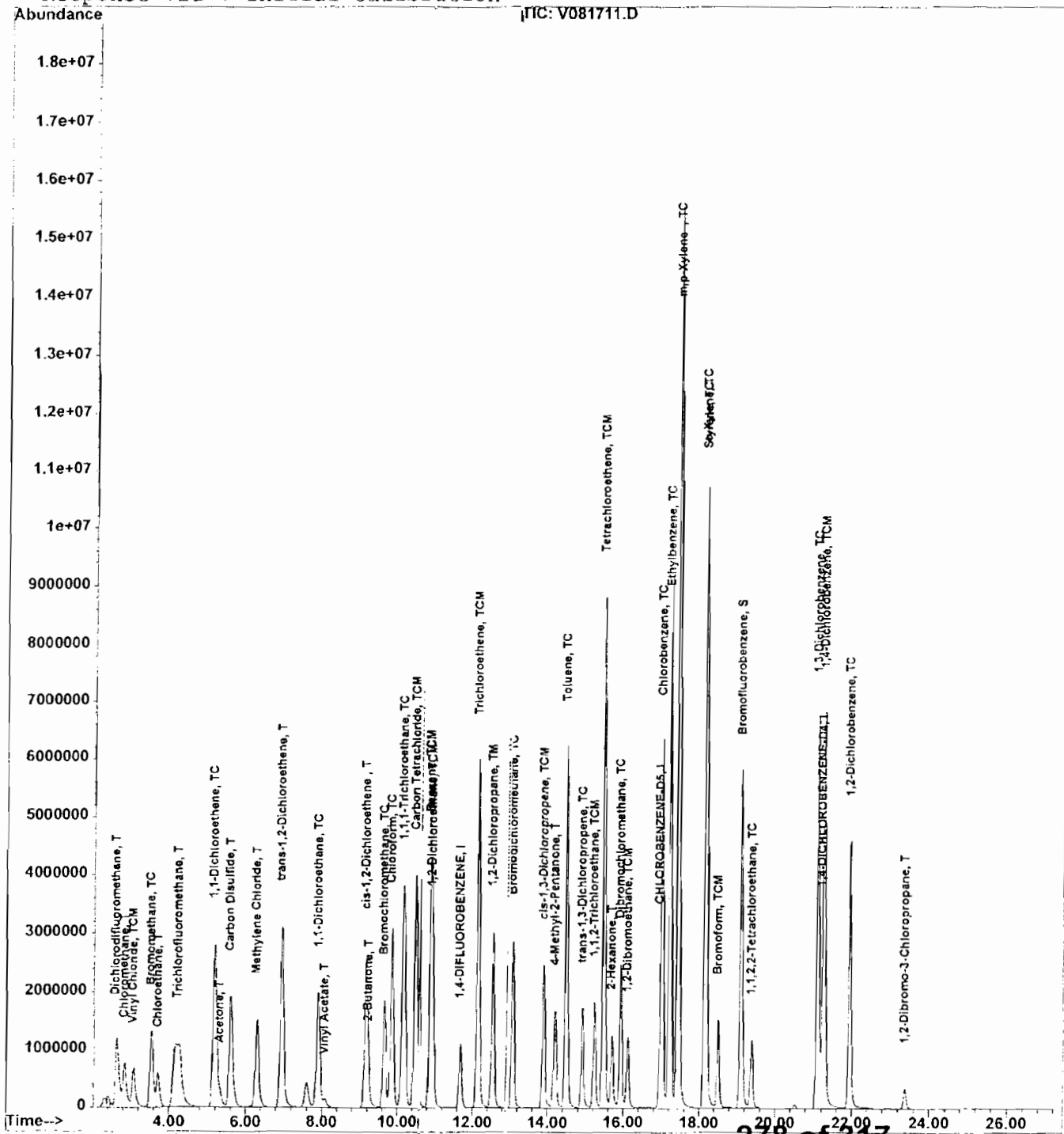
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\081711.D
Acq On : 17 Aug 2005 18:37
Sample : 025,,VSTD
Misc : VSTD025
MS Integration Params: rteint.p
Quant Time: Aug 17 19:10 2005

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9540817.RES

```
Method       : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)
Title        : VOA Standards for 5-point calibration
Last Update  : Wed Aug 17 19:11:23 2005
Response via : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081711.D

Vial: 6

Acq On : 17 Aug 2005 18:37

Operator: DMD

Sample : 025,,VSTD

Inst : MSD

Misc : VSTD025

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 19:10 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

DMD
8/17/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2320571	5.00	ug/l	-0.06
21) CHLOROBENZENE-D5	16.97	117	1598319	5.00	ug/l	-0.07
32) 1,4-DICHLOROBENZENE-D4	21.21	152	858528	5.00	ug/l	-0.06

System Monitoring Compounds

20) Bromofluorobenzene 19.11 174 4523249 26.85 ug/l -0.06
 Spiked Amount 5.000 Range 60 - 140 Recovery = 537.00%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.61	85	4976734	26.80 ug/l	98
3) Chloromethane	2.84	50	2457827	21.94 ug/l	98
4) Bromomethane	3.54	94	2885259	22.43 ug/l	95
5) Vinyl Chloride	3.07	62	2595222	20.81 ug/l	98
6) Chloroethane	3.72	64	1700348	21.26 ug/l	95
7) Trichlorofluoromethane	4.25	101	7233712m	19.76 ug/l	
8) Methylene Chloride	6.30	84	2413524	27.24 ug/l	90
9) Acetone	5.32	43	871172	179.57 ug/l	98
10) Carbon Disulfide	5.59	76	9623724	28.75 ug/l	100
11) 1,1-Dichloroethene	5.17	96	3973354	27.84 ug/l	99
12) 1,1-Dichloroethane	7.91	63	6452292	23.92 ug/l	97
13) trans-1,2-Dichloroethene	6.94	96	3994052	24.76 ug/l	96
14) cis-1,2-Dichloroethene	9.17	96	3285505	26.73 ug/l	97
15) Chloroform	9.85	83	6870488	24.73 ug/l	99
16) 1,2-Dichloroethane	10.94	62	2491457	28.44 ug/l	97
17) 2-Butanone	9.24	43	1200351	162.21 ug/l	98
18) Bromochloromethane	9.64	128	1479940	27.28 ug/l	# 90
19) Vinyl Acetate	8.09	43	675950	16.24 ug/l	96
22) 1,1,1-Trichloroethane	10.16	97	7734814	21.54 ug/l	98
23) Carbon Tetrachloride	10.49	117	7554302	19.76 ug/l	95
24) Bromodichloromethane	13.09	83	4714328	28.28 ug/l	99
25) 1,2-Dichloropropane	12.54	63	2869128	24.09 ug/l	100
26) cis-1,3-Dichloropropene	13.91	75	3422556	29.51 ug/l	95
27) Trichloroethene	12.14	95	5475034	22.98 ug/l	95
28) Benzene	10.89	78	9083676	24.01 ug/l	100
29) Dibromochloromethane	15.93	129	3245464	30.44 ug/l	96
30) trans-1,3-Dichloropropene	14.92	75	2247517	30.40 ug/l	97
31) 1,1,2-Trichloroethane	15.23	97	1408920	27.05 ug/l	96
33) 4-Methyl-2-Pentanone	14.20	43	3409531	148.89 ug/l	96
34) 2-Hexanone	15.70	43	2468425	167.66 ug/l	97
35) Tetrachloroethene	15.48	166	7599145	24.19 ug/l	98
36) 1,1,2,2-Tetrachloroethane	19.39	83	1577721	28.31 ug/l	98

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

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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081711.D

Vial: 6

Acq On : 17 Aug 2005 18:37

Operator: DMD

Sample : 025,,VSTD

Inst : MSD

Misc : VSTD025

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 19:10 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Toluene	14.49	91	11440301	25.70	ug/l	96
38) 1,2-Dibromoethane	16.12	107	2138209	28.54	ug/l #	100
39) Chlorobenzene	17.01	112	7932736	26.23	ug/l	98
40) Ethylbenzene	17.22	91	15087925	25.03	ug/l	100
41) m,p-Xylene	17.44	106	10972875	51.54	ug/l	91
42) o-Xylene	18.16	106	4750024	27.03	ug/l	98
43) Styrene	18.17	104	6758777	29.01	ug/l	96
44) Bromoform	18.51	173	1792603	34.69	ug/l #	96
45) 1,3-Dichlorobenzene	21.10	146	7327524	25.83	ug/l	98
46) 1,4-Dichlorobenzene	21.26	146	7157660	26.44	ug/l	97
47) 1,2-Dichlorobenzene	21.94	146	5080303	25.96	ug/l	98
48) 1,2-Dibromo-3-Chloropropan	23.38	75	224193	32.85	ug/l	96

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

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V081711.D 9540817.M

Wed Aug 17 19:16:15 2005

MSD

Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081708.D

Vial: 6

Acq On : 17 Aug 2005 16:45

Operator: DMD

Sample : 002,,VSTD

Inst : MSD

Misc : VSTD002

Multiplr: 1.00

Quant Time: Aug 17 18:36 2005

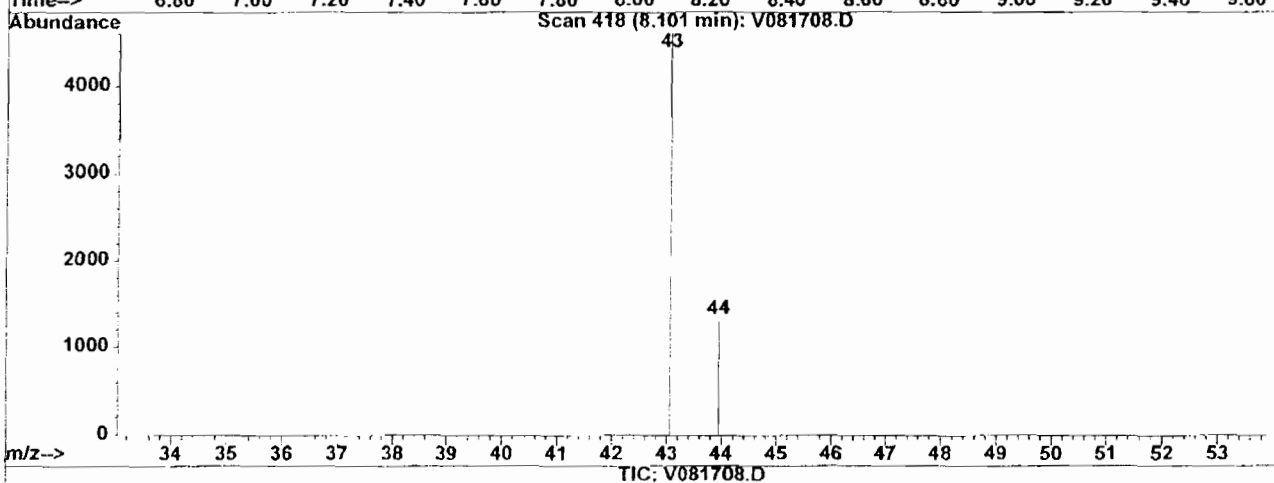
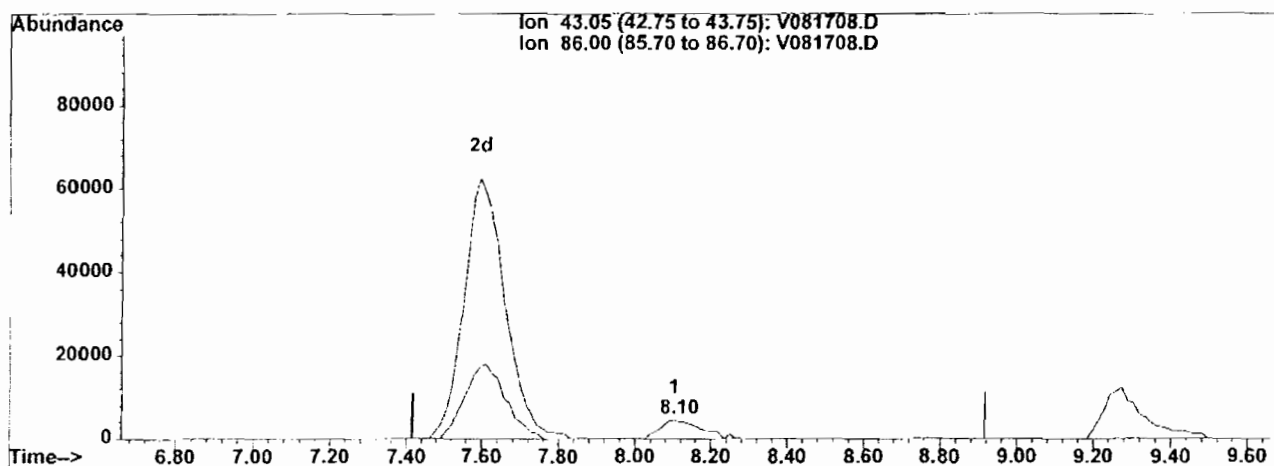
Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Wed Aug 17 19:10:46 2005

Response via : Multiple Level Calibration



(19) Vinyl Acetate (T)

8.10min 0.77ug/l m

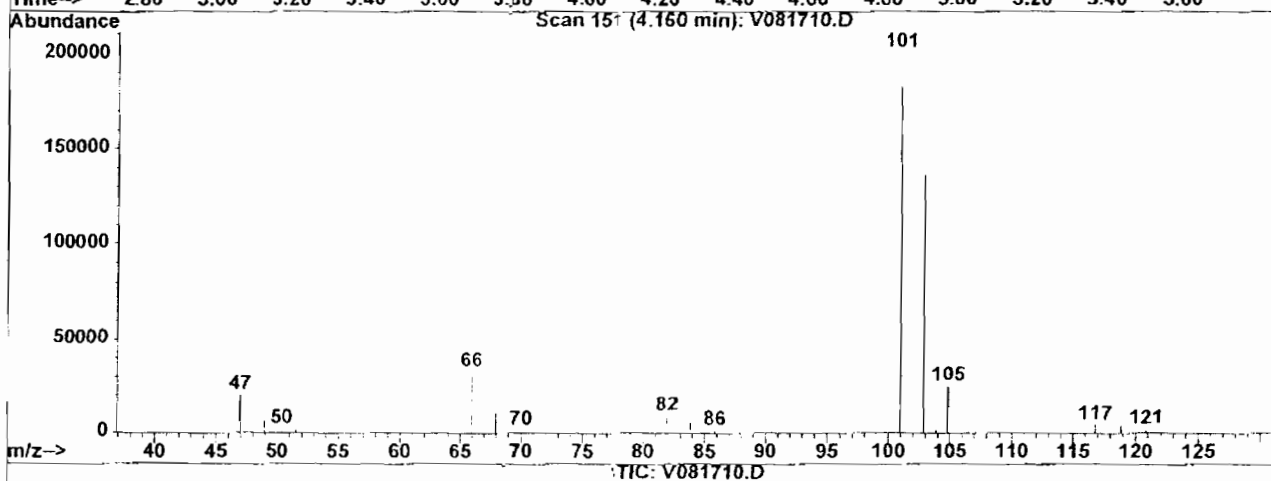
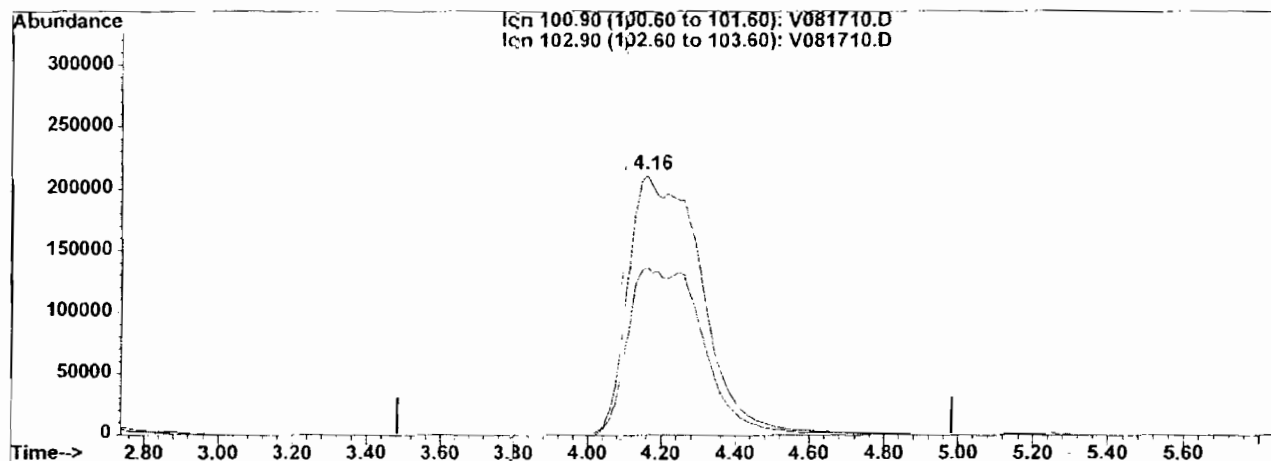
response 33055

Ion	Exp%	Act%
43.05	100	100
86.00	10.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081710.D Vial: 6
 Acq On : 17 Aug 2005 18:05 Operator: DMD
 Sample : 010,,VSTD Inst : MSD
 Misc : VSTD010 Multiplr: 1.00
 Quant Time: Aug 17 18:38 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.16min 7.79ug/l m

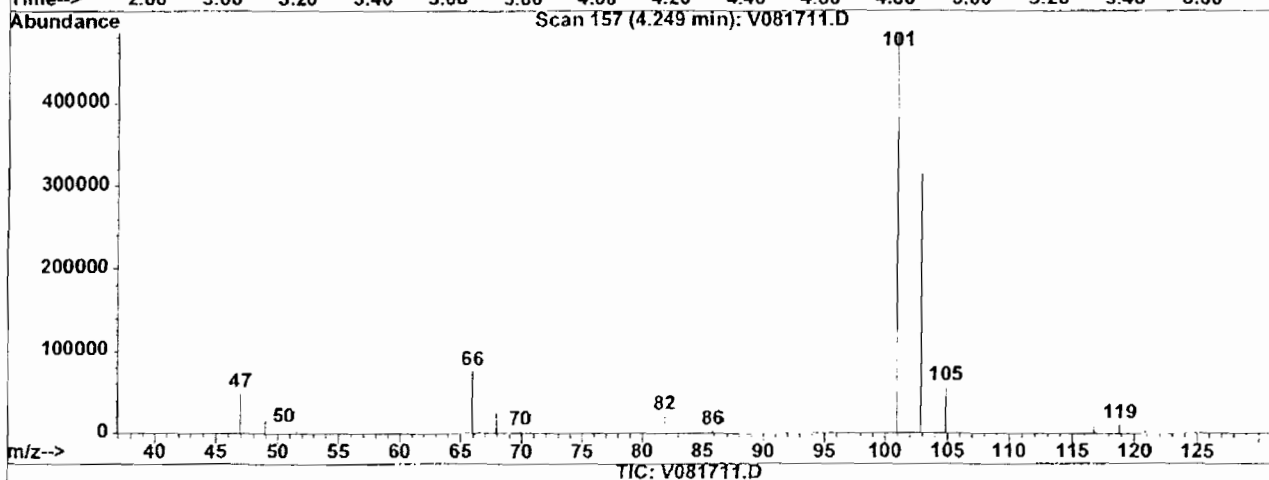
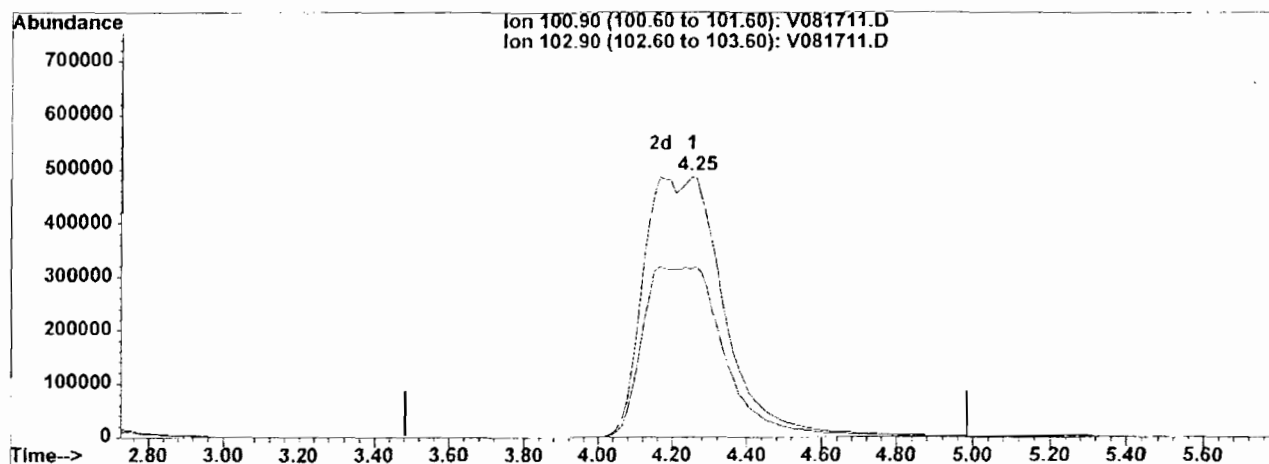
response 2906047

Ion	Exp%	Act%
100.90	100	100
102.90	65.10	64.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081711.D Vial: 6
 Acq On : 17 Aug 2005 18:37 Operator: DMD
 Sample : 025,,VSTD Inst : MSD
 Misc : VSTD025 Multiplr: 1.00
 Quant Time: Aug 17 19:10 2005 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Multiple Level Calibration



(7) Trichlorofluoromethane (T)

4.25min 19.76ug/l m

response 7233712

Ion	Exp%	Act%
100.90	100	100
102.90	65.10	64.60
0.00	0.00	0.00
0.00	0.00	0.00

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Continuing Calibration Report MSD

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 15 point calibration
 Last Update : Wed Aug 17 19:18:16 2005
 Response via : Continuing Calibration

Continuing Calibration File: V081709.D

Min. RRF : 0.000 Min. Rel. Area : 50%
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
1 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100
2 T	Dichlorodifluoromethane	0.497	0.514	-3.4	100
3 T	Chloromethane	0.236	0.244	-3.2	100
4 TC	Bromomethane	0.268	0.278	-3.6	100
5 TCM	Vinyl Chloride	0.247	0.248	-0.4	100
6 T	Chloroethane	0.153	0.155	-1.1	100
7 T	Trichlorofluoromethane	0.608	0.617	-1.6	100
8 T	Methylene Chloride	0.238	0.231	3.1	100
9 T	Acetone	0.014	0.014	1.4	100
10 T	Carbon Disulfide	0.705	0.721	-2.3	100
11 TC	1,1-Dichloroethene	0.326	0.331	-1.6	100
12 TC	1,1-Dichloroethane	0.561	0.572	-2.1	100
13 T	trans-1,2-Dichloroethene	0.346	0.362	-4.6	100
14 T	cis-1,2-Dichloroethene	0.284	0.284	-0.1	100
15 TC	Chloroform	0.602	0.606	-0.7	100
16 TCM	1,2-Dichloroethane	0.221	0.220	0.7	100
17 T	2-Butanone	0.019	0.019	-2.0	100
18 TC	Bromochloromethane	0.127	0.127	-0.3	100
19 T	Vinyl Acetate	0.051	0.040	20.8	100
20 S	Bromofluorobenzene	0.385	0.403	-4.7	100
21 I	CHLOROBENZENE-D5	1.000	1.000	0.0	100
22 TC	1,1,1-Trichloroethane	0.968	0.965	0.3	100
23 TCM	Carbon Tetrachloride	0.936	0.936	-0.0	100
24 TC	Bromodichloromethane	0.544	0.540	0.8	100
25 TM	1,2-Dichloropropane	0.369	0.364	1.4	100
26 TCM	cis-1,3-Dichloropropene	0.379	0.384	-1.1	100
27 TCM	Trichloroethene	0.705	0.708	-0.5	100
28 TCM	Benzene	1.193	1.182	0.9	100
29 TC	Dibromochloromethane	0.343	0.350	-2.2	100
30 TC	trans-1,3-Dichloropropene	0.234	0.238	-1.5	100
31 TCM	1,1,2-Trichloroethane	0.179	0.180	-0.7	100
32 I	1,4-DICHLOROBENZENE-D4	1.000	1.000	0.0	100
33 T	4-Methyl-2-Pentanone	0.155	0.155	0.4	100
34 T	2-Hexanone	0.107	0.104	3.2	100
35 TCM	Tetrachloroethene	1.873	1.881	-0.4	100
36 TC	1,1,2,2-Tetrachloroethane	0.363	0.368	-1.6	100
37 TC	Toluene	2.728	2.735	-0.2	100
38 TCM	1,2-Dibromoethane	0.487	0.490	-0.7	100
39 TC	Chlorobenzene	1.925	1.945	-1.0	100
40 TC	Ethylbenzene	3.582	3.660	-2.2	100
41 TC	m,p-Xylene	1.329	1.358	-2.2	100

(#) = Out of Range

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Continuing Calibration Report MSD

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:18:16 2005
Response via : Continuing Calibration

Continuing Calibration File: V081709.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
42 TC	o-Xylene	1.137	1.162	-2.2	100
43 TC	Styrene	1.544	1.588	-2.9	100
44 TCM	Bromoform	0.317	0.307	3.4	100
45 TC	1,3-Dichlorobenzene	1.741	1.759	-1.0	100
46 TCM	1,4-Dichlorobenzene	1.744	1.731	0.8	100
47 TC	1,2-Dichlorobenzene	1.255	1.278	-1.9	100
48 T	1,2-Dibromo-3-Chloropropane	0.041	0.042	-3.5	100

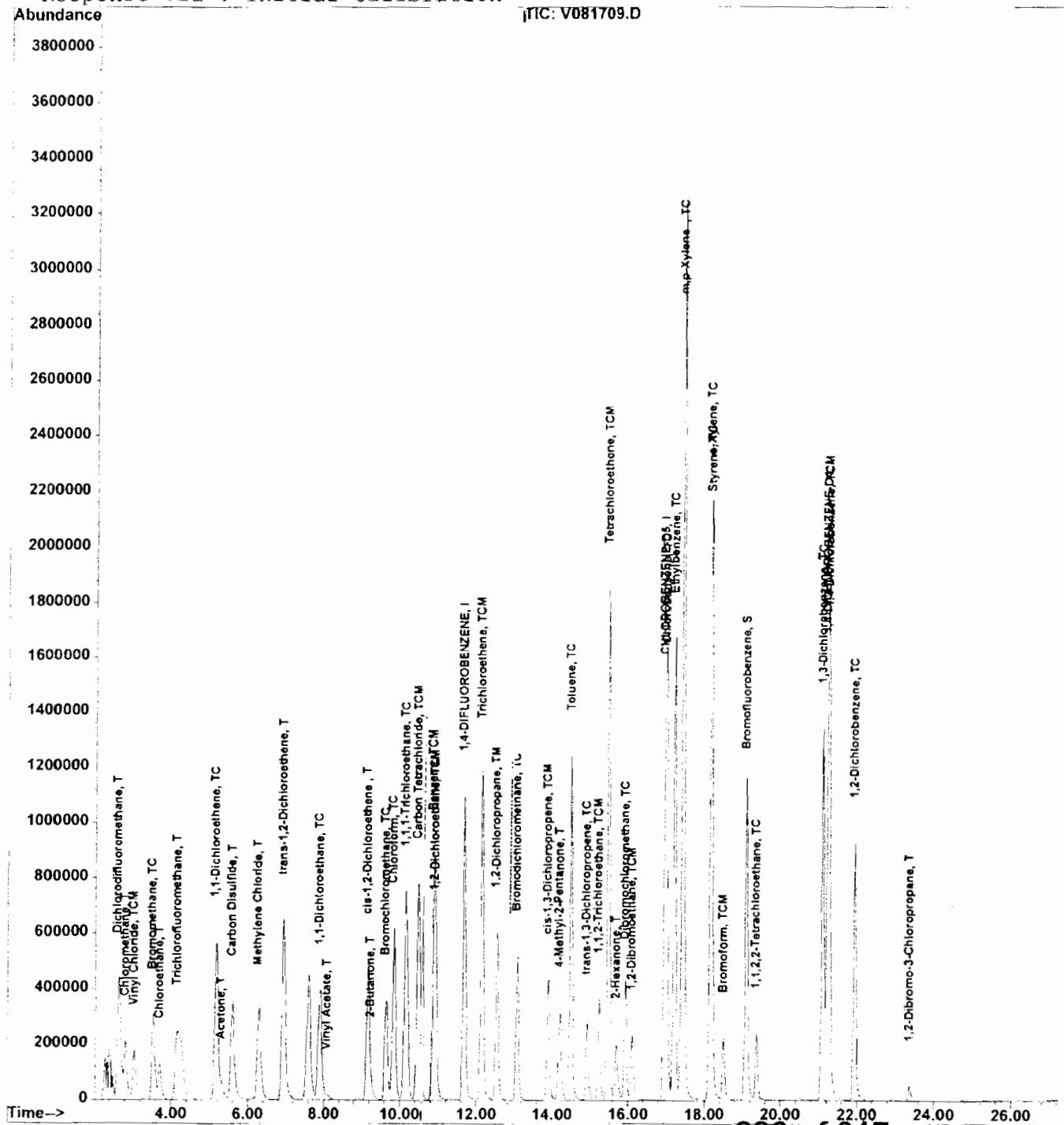
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081709.D
 Acq On : 17 Aug 2005 17:17
 Sample : 005,,VSTD
 Misc : VSTD005
 MS Integration Params: rteint.p
 Quant Time: Aug 17 17:44 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\081709.D

Vial: 6

Acq On : 17 Aug 2005 17:17

Operator: DMD

Sample : 005,,VSTD

Inst : MSD

Misc : VSTD005

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 17:44 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

DMD
8/17/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2281962	5.00	ug/l	-0.06
21) CHLOROBENZENE-D5	16.97	117	1564506	5.00	ug/l	-0.07
32) 1,4-DICHLOROBENZENE-D4	21.22	152	834943	5.00	ug/l	-0.06

System Monitoring Compounds

20) Bromofluorobenzene	19.11	174	920208	5.55	ug/l	-0.06
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.63	85	1172646	6.42	ug/l	98
3) Chloromethane	2.83	50	556800	5.05	ug/l	98
4) Bromomethane	3.54	94	634756	5.02	ug/l	94
5) Vinyl Chloride	3.05	62	565734	4.61	ug/l	99
6) Chloroethane	3.72	64	352679	4.48	ug/l	93
7) Trichlorofluoromethane	4.18	101	1409043	3.91	ug/l	99
8) Methylene Chloride	6.29	84	526591	6.04	ug/l	90
9) Acetone	5.32	43	159648	33.46	ug/l	94
10) Carbon Disulfide	5.61	76	1645262	5.00	ug/l	100
11) 1,1-Dichloroethene	5.17	96	755555	5.38	ug/l	99
12) 1,1-Dichloroethane	7.91	63	1305657	4.92	ug/l	98
13) trans-1,2-Dichloroethene	6.96	96	825223	5.20	ug/l	98
14) cis-1,2-Dichloroethene	9.17	96	648379	5.36	ug/l	97
15) Chloroform	9.85	83	1383270	5.06	ug/l	98
16) 1,2-Dichloroethane	10.94	62	501966	5.83	ug/l	98
17) 2-Butanone	9.24	43	220129	30.25	ug/l	99
18) Bromochloromethane	9.65	128	290402	5.44	ug/l #	91
19) Vinyl Acetate	8.10	43	92007	2.25	ug/l	95
22) 1,1,1-Trichloroethane	10.17	97	1509841	4.30	ug/l	97
23) Carbon Tetrachloride	10.49	117	1464725	3.91	ug/l	99
24) Bromodichloromethane	13.09	83	844698	5.18	ug/l	99
25) 1,2-Dichloropropane	12.54	63	569252	4.88	ug/l	100
26) cis-1,3-Dichloropropene	13.91	75	600015	5.28	ug/l	97
27) Trichloroethene	12.14	95	1108106	4.75	ug/l	93
28) Benzene	10.89	78	1848539	4.99	ug/l	100
29) Dibromochloromethane	15.94	129	548071	5.25	ug/l	98
30) trans-1,3-Dichloropropene	14.92	75	371841	5.14	ug/l	97
31) 1,1,2-Trichloroethane	15.23	97	281592	5.52	ug/l	96
33) 4-Methyl-2-Pentanone	14.21	43	646271	29.02	ug/l	98
34) 2-Hexanone	15.71	43	432521	30.21	ug/l	97
35) Tetrachloroethene	15.47	166	1570333	5.14	ug/l	98
36) 1,1,2,2-Tetrachloroethane	19.37	83	307595	5.68	ug/l	96

(#) = qualifier out of range (m) = manual integration 287 of 317

V081709.D 9540817.M

Wed Aug 17 19:18:42 2005

MSD

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081709.D

Vial: 6

Acq On : 17 Aug 2005 17:17

Operator: DMD

Sample : 005,,VSTD

Inst : MSD

Misc : VSTD005

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 17 17:44 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Thu Jul 22 14:35:12 2004

Response via : Initial Calibration

DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Toluene	14.49	91	2283255	5.27 ug/l	97
38) 1,2-Dibromoethane	16.12	107	409023	5.61 ug/l #	99
39) Chlorobenzene	17.01	112	1623556	5.52 ug/l	97
40) Ethylbenzene	17.22	91	3055548	5.21 ug/l	100
41) m,p-Xylene	17.43	106	2267720	10.95 ug/l	98
42) o-Xylene	18.16	106	970056	5.68 ug/l	98
43) Styrene	18.17	104	1325804	5.85 ug/l	96
44) Bromoform	18.51	173	256053	5.10 ug/l #	94
45) 1,3-Dichlorobenzene	21.10	146	1468489	5.32 ug/l	96
46) 1,4-Dichlorobenzene	21.25	146	1445029	5.49 ug/l	96
47) 1,2-Dichlorobenzene	21.94	146	1067269	5.61 ug/l	99
48) 1,2-Dibromo-3-Chloropropan	23.38	75	35251	5.31 ug/l	93

(#) = qualifier out of range (m) = manual integration 288 of 317

V081709.D 9540817.M

Wed Aug 17 19:18:43 2005

MSD

Page 2

CLPBFB

Data File : C:\HPCHEM\1\DATA\081705.B\V081706.D

Acq On : 17 Aug 2005 14:40

Sample : BFB

Misc : BFB

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\9540817.M (RTE Integrator)

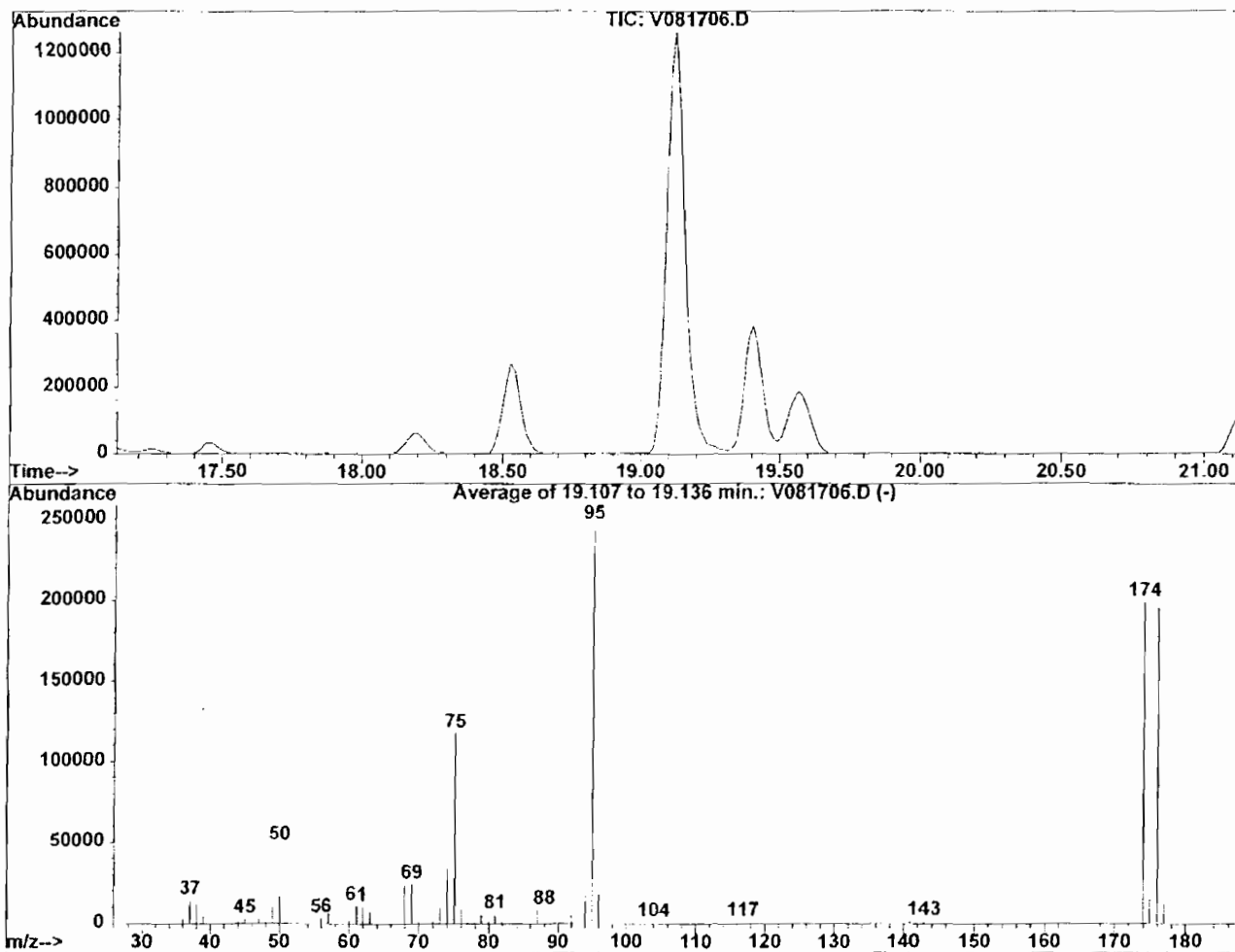
Title : VOA Standards for 5 point calibration

Vial: 6

Operator: DMD

Inst : MSD

Multiplr: 1.00

DMD
8/18/05

AutoFind: Scans 1159, 1160, 1161; Background Corrected with Scan 1151

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.5	48144	PASS
75	95	30	60	47.6	117627	PASS
95	95	100	100	100.0	246912	PASS
96	95	5	9	7.4	18184	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.6	198933	PASS
175	174	5	9	7.9	15771	PASS
176	174	95	101	98.3	195605	PASS
177	176	5	9	7.2	14152	PASS

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CLPBFB

Data File : C:\HPCHEM\1\DATA\081705.B\V081706.D

Vial: 6

Acq On : 17 Aug 2005 14:40

Operator: DMD

Sample : BFB

Inst : MSD

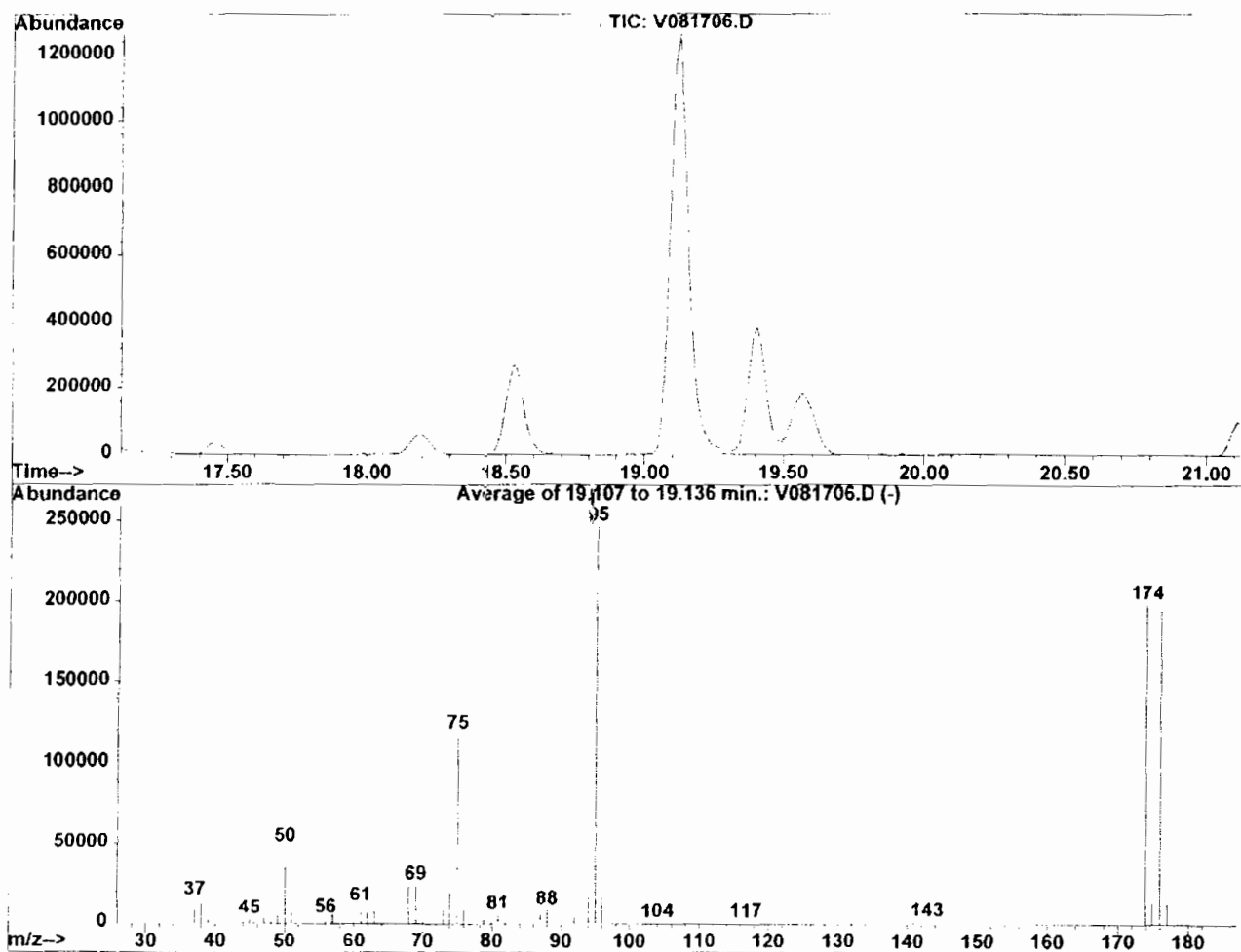
Misc : BFB

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration



AutoFind: Scans 1159, 1160, 1161; Background Corrected with Scan 1151

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.5	48144	PASS
75	95	30	60	47.6	117627	PASS
95	95	100	100	100.0	246912	PASS
96	95	5	9	7.4	18184	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.6	198933	PASS
175	174	5	9	7.9	15771	PASS
176	174	95	10	98.3	195605	PASS
177	176	5	9	7.2	14152	PASS

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VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK017

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: VBLK017

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081713.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 8/17/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane		U	1.0
74-83-9	Bromomethane		U	1.0
75-01-4	Vinyl Chloride		U	1.0
75-00-3	Chloroethane		U	1.0
75-09-2	Methylene Chloride		U	2.0
67-64-1	Acetone		U	5.0
75-15-0	Carbon Disulfide		U	1.0
75-35-4	1,1-Dichloroethene		U	1.0
75-34-4	1,1-Dichloroethane		U	1.0
156-60-5	trans-1,2-Dichloroethene		U	1.0
540-59-0	cis-1,2-Dichloroethene		U	1.0
67-66-3	Chloroform		U	1.0
107-06-2	1,2-Dichloroethane		U	1.0
78-93-3	2-Butanone		U	5.0
75-27-4	Bromochloromethane		U	1.0
108-05-4	Vinyl Acetate		U	1.0
71-55-6	1,1,1-Trichloroethane		U	1.0
56-23-5	Carbon Tetrachloride		U	1.0
75-27-4	Bromodichloromethane		U	1.0
78-87-5	1,2-Dichloropropane		U	1.0
10061-01-5	cis-1,3-Dichloropropene		U	1.0
79-01-6	Trichloroethene		U	1.0
71-43-2	Benzene		U	1.0
124-48-1	Dibromochloromethane		U	1.0
10061-02-6	trans-1,3-Dichloropropene		U	1.0
79-00-5	1,1,2-Trichloroethane		U	1.0
108-10-1	4-Methyl-2-Pentanone		U	5.0
591-78-6	2-Hexanone		U	5.0
127-18-4	Tetrachloroethene		U	1.0
79-34-5	1,1,2,2-Tetrachloroethane		U	1.0
108-88-3	Toluene		U	1.0
106-93-4	1,2-Dibromoethane		U	1.0
108-90-7	Chlorobenzene		U	1.0
100-41-4	Ethylbenzene		U	1.0
1330-20-7	m,p-Xylene		U	1.0
1330-20-7	o-Xylene		U	1.0
100-42-5	Styrene		U	1.0
75-25-2	Bromoform		U	1.0
541-73-1	1,3-Dichlorobenzene		U	1.0

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STL Newburgh

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK017

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: VBLK017
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081713.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. Date Analyzed: 8/17/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene		U	1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane		U	1.0

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NYS DOH 10142

NJ DEP 73015

FORM 1/VOA

CT DOHS PH-0564

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VLBK017

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: VLBK017
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081713.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 8/17/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L _____

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.0471	JN

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**SEVERN
TRENT** **STL**

FORM 1 VOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
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Fax (845) 562-0841

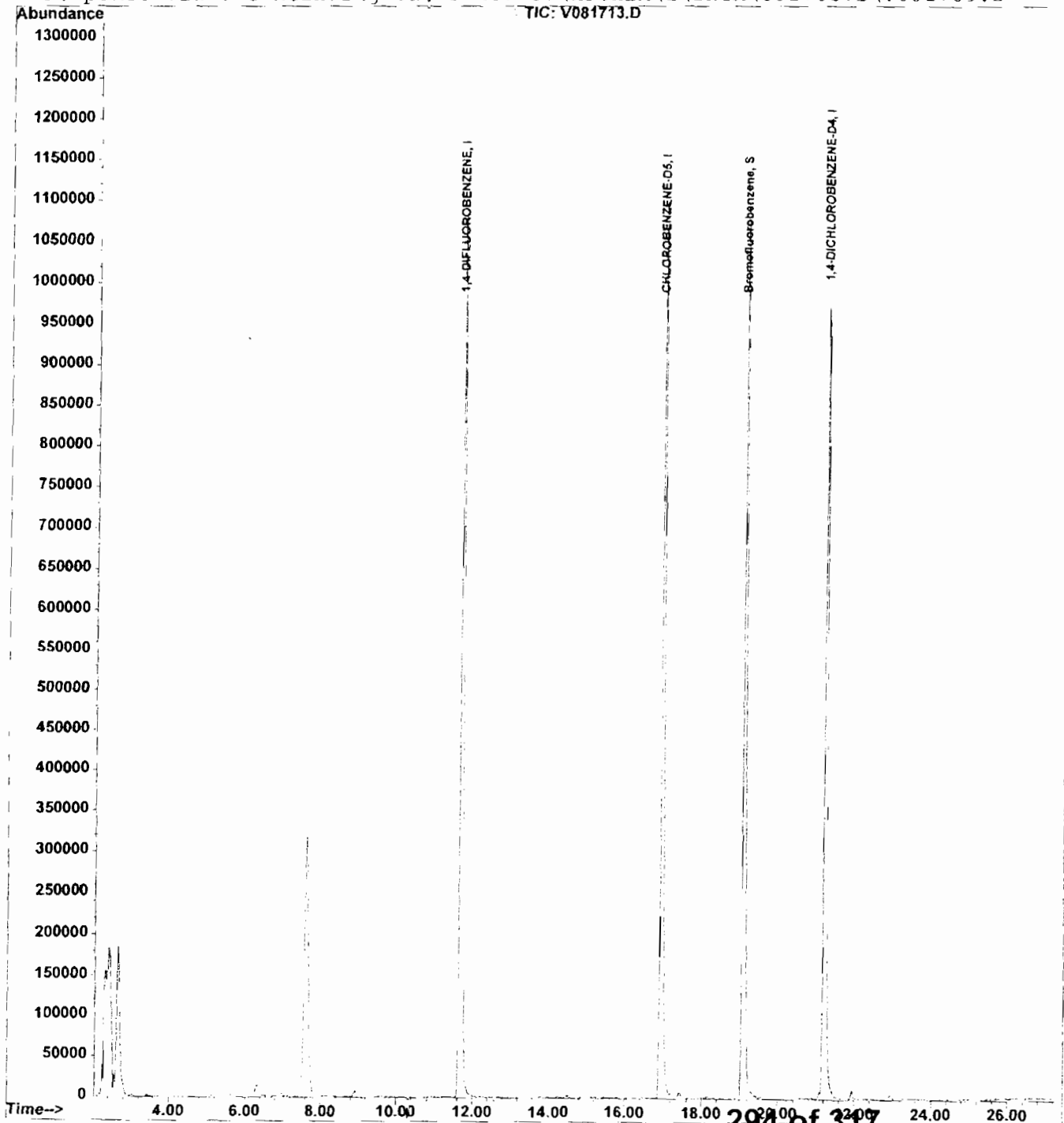
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081713.D
Acq On : 17 Aug 2005 19:42
Sample : 017,,VBLK
Misc : VBLK017
MS Integration Params: rteint.p
Quant Time: Aug 18 8:50 2005

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081713.D

Vial: 6

Acq On : 17 Aug 2005 19:42

Operator: DMD

Sample : 017,,VBLK

Inst : MSD

Misc : VBLK017

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Aug 18 8:50 2005

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)

Title : VOA Standards for 5 point calibration

Last Update : Wed Aug 17 19:10:46 2005

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D

DataAcq Meth : 9540817

DM 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2249122	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1524414	5.00	ug/l	-0.02
32) 1,4-DICHLOROBENZENE-D4	21.21	152	770208	5.00	ug/l	0.00

System Monitoring Compounds

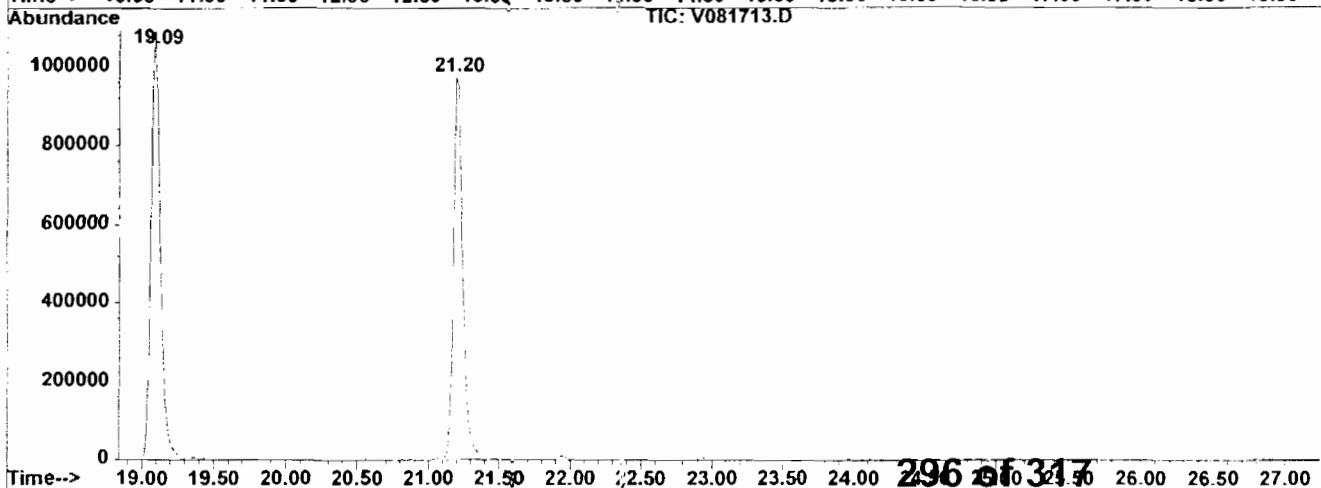
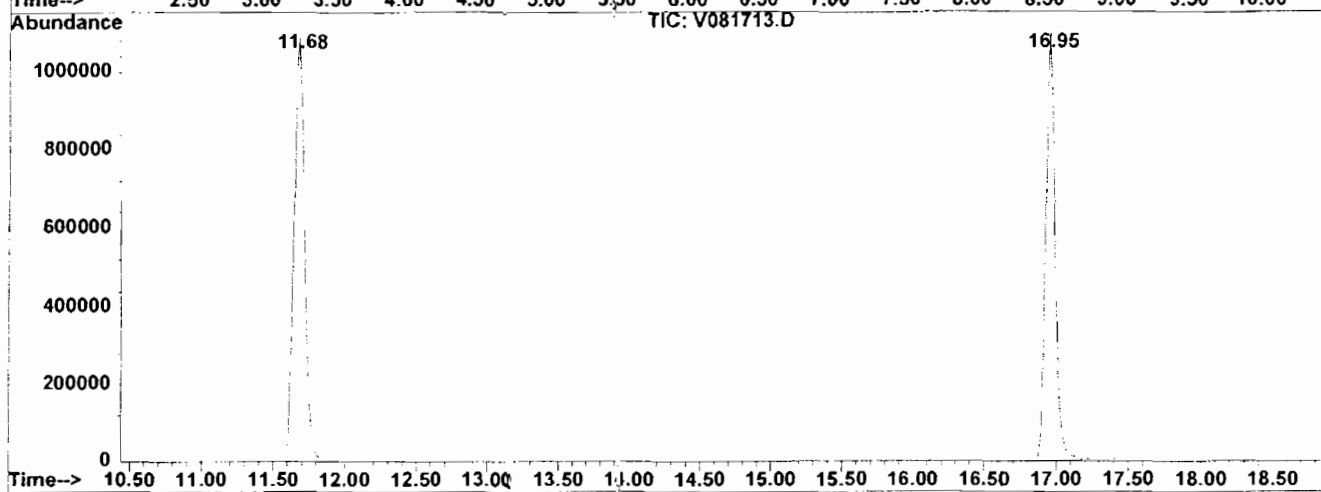
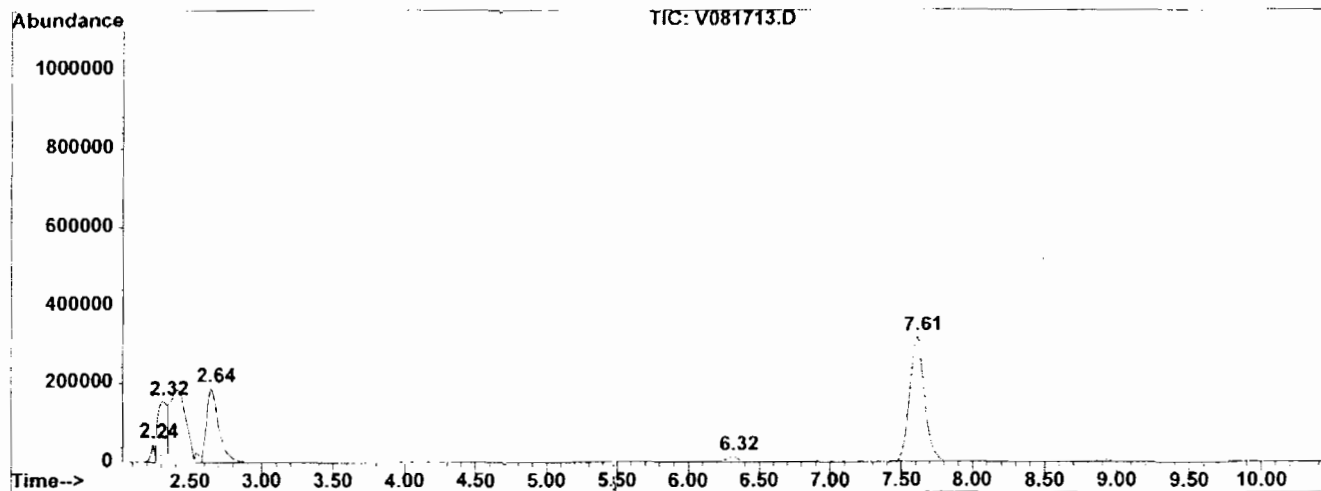
20) Bromofluorobenzene	19.09	174	877088	4.84	ug/l	-0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%

Target Compounds

Qvalue

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\081705.B\V081713.D
 Operator : DMD
 Acquired : 17 Aug 2005 19:42 using AcqMethod 9540817
 Instrument : MSD
 Sample Name: 017,,VBLK
 Misc Info : VBLK017
 Vial Number: 6
 Quant File :9540817.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\081705.B\V081713.D
Acq On : 17 Aug 2005 19:42
Sample : 017,,VBLK
Misc : VBLK017
MS Integration Params: LSCINT.P

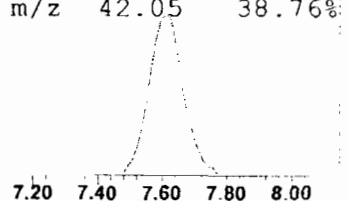
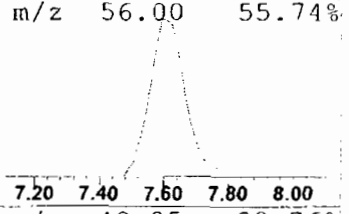
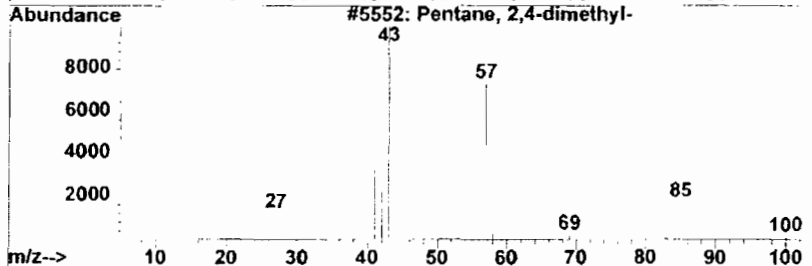
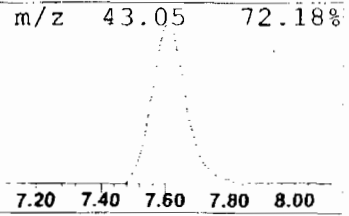
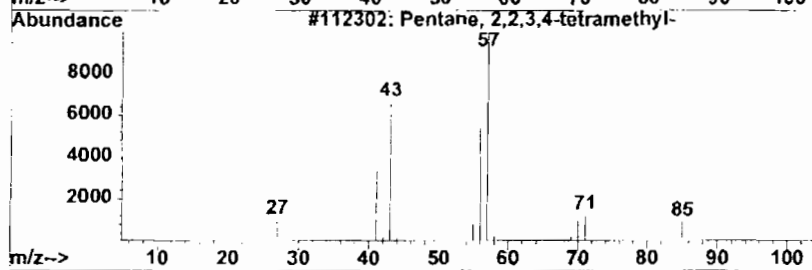
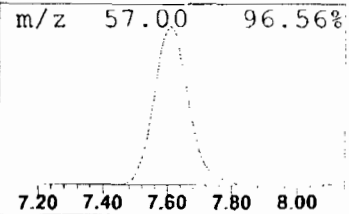
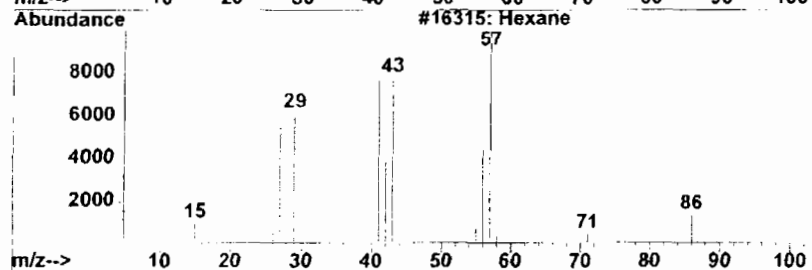
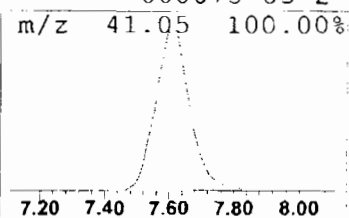
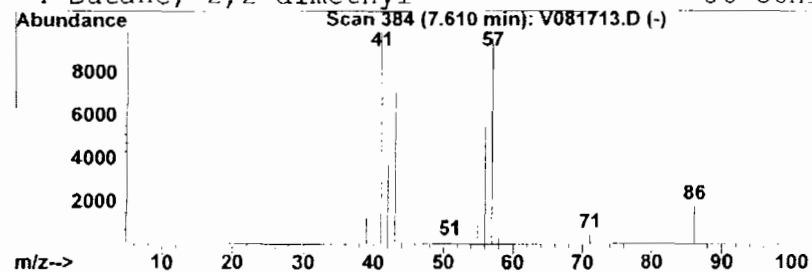
Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

Peak Number 3 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.61	2.05 ug/l	2302110	1,4-DIFLUOROBENZENE	11.68

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	91
2	Pentane, 2,2,3,4-tetramethyl-			128	C9H20	001186-53-4	23
3	Pentane, 2,4-dimethyl-			100	C7H16	000108-08-7	36
4	Butane, 2,2-dimethyl-			86	C6H14	000075-83-2	12



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Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 17 Aug 2005 19:42
 Data File: C:\HPCHEM\1\DATA\081705.B\081713.D
 Name: 017,,VBLK
 Misc: VBLK017
 Method: C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title: VOA Standards for 5 point calibration
 Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Dimethyl ether	2.32	0.6	ug/l	622397	ISTD01	11.68	5622870	5.0
Methane, chlorodiflu	2.64	1.0	ug/l	1088610	ISTD01	11.68	5622870	5.0
Hexane	7.61	2.0	ug/l	2302110	ISTD01	11.68	5622870	5.0

V081713.D 9540817.M Thu Aug 18 09:02:12 2005 MSD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBSPK017

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: VBSPK017
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081715.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 8/17/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane	5.3		1.0
74-83-9	Bromomethane	5.2		1.0
75-01-4	Vinyl Chloride	5.3		1.0
75-00-3	Chloroethane	5.1		1.0
75-09-2	Methylene Chloride	4.8		2.0
67-64-1	Acetone	24		5.0
75-15-0	Carbon Disulfide	5.1		1.0
75-35-4	1,1-Dichloroethene	5.2		1.0
75-34-4	1,1-Dichloroethane	5.1		1.0
156-60-5	trans-1,2-Dichloroethene	4.9		1.0
540-59-0	cis-1,2-Dichloroethene	5.2		1.0
67-66-3	Chloroform	5.1		1.0
107-06-2	1,2-Dichloroethane	5.2		1.0
78-93-3	2-Butanone	25		5.0
75-27-4	Bromochloromethane	5.2		1.0
108-05-4	Vinyl Acetate	11		1.0
71-55-6	1,1,1-Trichloroethane	5.1		1.0
56-23-5	Carbon Tetrachloride	5.0		1.0
75-27-4	Bromodichloromethane	5.2		1.0
78-87-5	1,2-Dichloropropane	5.2		1.0
10061-01-5	cis-1,3-Dichloropropene	5.3		1.0
79-01-6	Trichloroethene	5.1		1.0
71-43-2	Benzene	5.1		1.0
124-48-1	Dibromochloromethane	5.3		1.0
10061-02-6	trans-1,3-Dichloropropene	5.5		1.0
79-00-5	1,1,2-Trichloroethane	5.2		1.0
108-10-1	4-Methyl-2-Pentanone	24		5.0
591-78-6	2-Hexanone	25		5.0
127-18-4	Tetrachloroethene	5.0		1.0
79-34-5	1,1,2,2-Tetrachloroethane	5.0		1.0
108-88-3	Toluene	5.0		1.0
106-93-4	1,2-Dibromoethane	5.1		1.0
108-90-7	Chlorobenzene	5.0		1.0
100-41-4	Ethylbenzene	5.0		1.0
1330-20-7	m,p-Xylene	10		1.0
1330-20-7	o-Xylene	5.1		1.0
100-42-5	Styrene	5.0		1.0
75-25-2	Bromoform	5.3		1.0
541-73-1	1,3-Dichlorobenzene	5.0		1.0

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STL

NYSDOH 10142

NJDEP 73015

FORM IVOA

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBSPK017

Lab Name: STL Newburgh Contract:

Lab Code: 10142 Case No.: SAS No.: SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: VBSPK017

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081715.D

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 8/17/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	5.2		1.0
95-50-1	1,2-Dichlorobenzene	5.1		1.0
96-12-8	1,2-Dibromo-3-Chloropropane	4.5		1.0

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STL

NYSDOH 10142

NJDEP 73015

FORM 1/0A

CTDOHS PH-0554

EPA NY049

PA 88-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

Quantitation Report

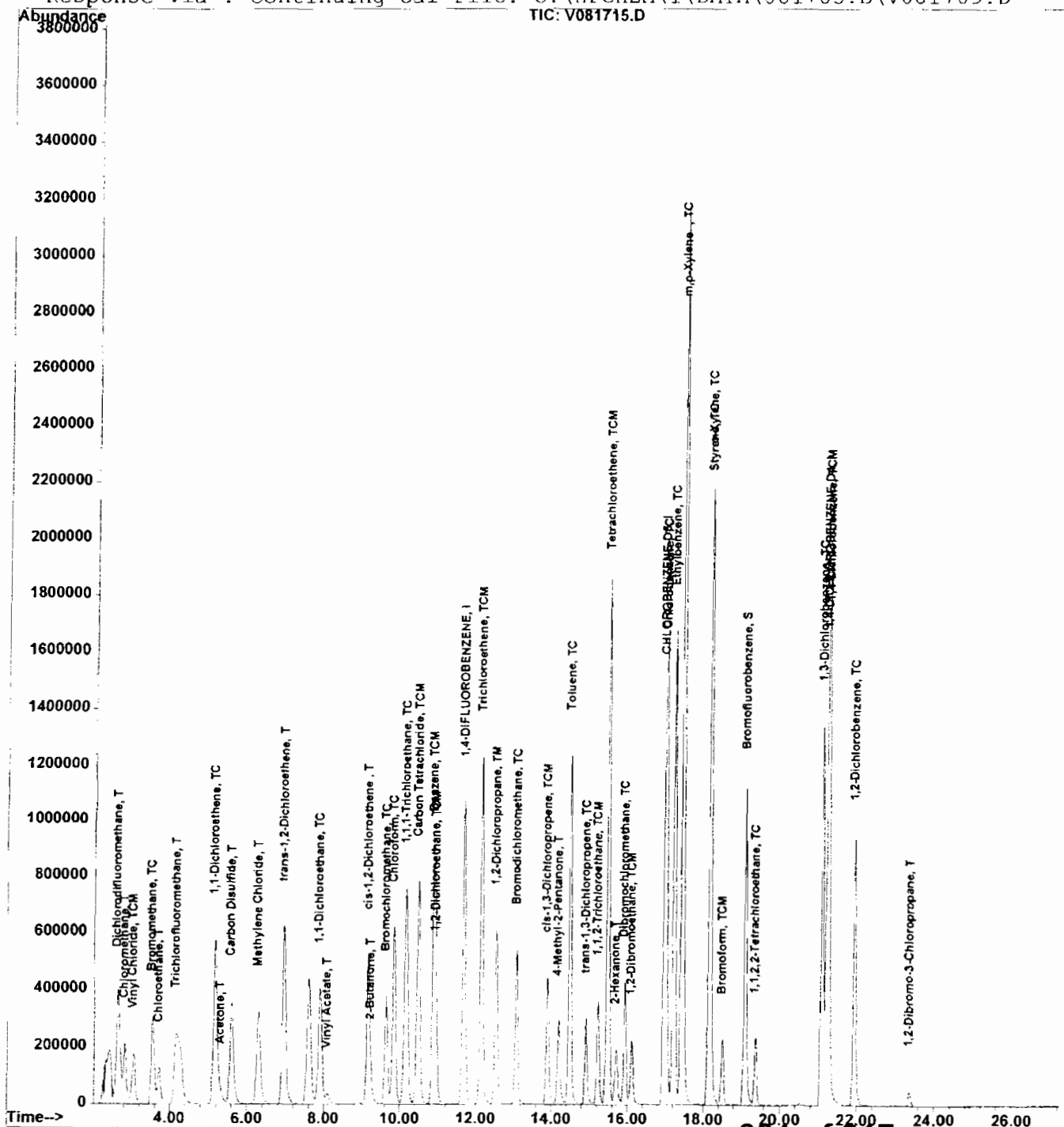
Data File : C:\HPCHEM\1\DATA\081705.B\081715.D
 Acq On : 17 Aug 2005 20:48
 Sample : 017,,VBSPK
 Misc : VBSPK010|017,,VBLK|
 MS Integration Params: rteint.p
 Quant Time: Aug 17 21:15 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\081709.D

TIC: 081715.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081715.D Vial: 6
 Acq On : 17 Aug 2005 20:48 Operator: DMD
 Sample : 017,,VBSPK Inst : MSD
 Misc : VBSPK010|017,,VBLK| Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 17 21:15 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File C:\HPCHEM\1\DATA\081705.B\V081709.D
 DataAcq Meth : 9540817

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2253670	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.97	117	1546222	5.00	ug/l	0.00
32) 1,4-DICHLOROBENZENE-D4	21.21	152	835916	5.00	ug/l	0.00

System Monitoring Compounds

20) Bromofluorobenzene	19.11	174	915468	5.04	ug/l	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.63	85	1173638	5.07	ug/l	99
3) Chloromethane	2.83	50	583100	5.30	ug/l	99
4) Bromomethane	3.54	94	648022	5.17	ug/l	95
5) Vinyl Chloride	3.06	62	589932	5.28	ug/l	96
6) Chloroethane	3.72	64	353936	5.08	ug/l	94
7) Trichlorofluoromethane	4.18	101	1422571	5.11	ug/l	99
8) Methylene Chloride	6.10	84	498468	4.79	ug/l	90
9) Acetone	5.34	43	151057	23.95	ug/l	100
10) Carbon Disulfide	5.60	76	1663389	5.12	ug/l	100
11) 1,1-Dichloroethene	5.17	96	769284	5.15	ug/l	96
12) 1,1-Dichloroethane	7.89	63	1325577	5.14	ug/l	98
13) trans-1,2-Dichloroethene	6.96	96	795481	4.88	ug/l	97
14) cis-1,2-Dichloroethene	9.17	96	667233	5.21	ug/l	95
15) Chloroform	9.85	83	1391519	5.09	ug/l	98
16) 1,2-Dichloroethane	10.95	62	515605	5.20	ug/l	97
17) 2-Butanone	9.24	43	216106	24.85	ug/l	98
18) Bromochloromethane	9.64	128	299669	5.22	ug/l #	91
19) Vinyl Acetate	8.10	43	194599	10.71	ug/l	96
22) 1,1,1-Trichloroethane	10.16	97	1511212	5.06	ug/l	99
23) Carbon Tetrachloride	10.49	117	1462652	5.05	ug/l	99
24) Bromodichloromethane	13.09	83	869446	5.21	ug/l	99
25) 1,2-Dichloropropane	12.54	63	588720	5.23	ug/l	99
26) cis-1,3-Dichloropropene	13.89	75	631916	5.33	ug/l	92
27) Trichloroethene	12.14	95	1116203	5.10	ug/l	95
28) Benzene	10.89	78	1863365	5.10	ug/l	100
29) Dibromochloromethane	15.93	129	573676	5.30	ug/l	99
30) trans-1,3-Dichloropropene	14.92	75	404886	5.51	ug/l	100
31) 1,1,2-Trichloroethane	15.23	97	286617	5.15	ug/l	94
33) 4-Methyl-2-Pentanone	14.19	43	633067	24.46	ug/l	98
34) 2-Hexanone	15.70	43	424610	24.51	ug/l	96
35) Tetrachloroethene	15.48	166	1575845	5.01	ug/l	100
36) 1,1,2,2-Tetrachloroethane	19.37	83	308493	5.01	ug/l	97

(#) = qualifier out of range (m) = manual integration 302 of 317

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081715.D Vial: 6
Acq On : 17 Aug 2005 20:48 Operator: DMD
Sample : 017,,VBSPK Inst : MSD
Misc : VBSPK010|017,,VBLK| Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 17 21:15 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Toluene	14.49	91	2279161	4.99	ug/l	97
38) 1,2-Dibromoethane	16.12	107	417727	5.10	ug/l	99
39) Chlorobenzene	17.01	112	1642649	5.05	ug/l	96
40) Ethylbenzene	17.22	91	3049370	4.98	ug/l	100
41) m,p-Xylene	17.43	106	2273216	10.01	ug/l	93
42) o-Xylene	18.16	106	990657	5.10	ug/l	96
43) Styrene	18.17	104	1339579	5.05	ug/l	93
44) Bromoform	18.51	173	270223	5.27	ug/l #	98
45) 1,3-Dichlorobenzene	21.10	146	1483885	5.05	ug/l	97
46) 1,4-Dichlorobenzene	21.26	146	1508287	5.21	ug/l	98
47) 1,2-Dichlorobenzene	21.94	146	1091765	5.11	ug/l	98
48) 1,2-Dibromo-3-Chloropropan	23.38	75	32028	4.54	ug/l	98

(#) = qualifier out of range (m) = manual integration **303 of 317**

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS010

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 017VLCS
 Sample wt/vol: 5.0 (g/ml) VL Lab File ID: V081716.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. Date Analyzed: 8/17/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane		U	1.0
74-83-9	Bromomethane		U	1.0
75-01-4	Vinyl Chloride		U	1.0
75-00-3	Chloroethane		U	1.0
75-09-2	Methylene Chloride		U	2.0
67-64-1	Acetone		U	5.0
75-15-0	Carbon Disulfide		U	1.0
75-35-4	1,1-Dichloroethene		U	1.0
75-34-4	1,1-Dichloroethane		U	1.0
156-60-5	trans-1,2-Dichloroethene		U	1.0
540-59-0	cis-1,2-Dichloroethene		U	1.0
67-66-3	Chloroform		U	1.0
107-06-2	1,2-Dichloroethane	6.6		1.0
78-93-3	2-Butanone		U	5.0
75-27-4	Bromochloromethane		U	1.0
108-05-4	Vinyl Acetate		U	1.0
71-55-6	1,1,1-Trichloroethane		U	1.0
56-23-5	Carbon Tetrachloride	6.1		1.0
75-27-4	Bromodichloromethane		U	1.0
78-87-5	1,2-Dichloropropane	6.6		1.0
10061-01-5	cis-1,3-Dichloropropene	6.3		1.0
79-01-6	Trichloroethene	6.2		1.0
71-43-2	Benzene	6.4		1.0
124-48-1	Dibromochloromethane		U	1.0
10061-02-6	trans-1,3-Dichloropropene		U	1.0
79-00-5	1,1,2-Trichloroethane	6.6		1.0
108-10-1	4-Methyl-2-Pentanone	2.1	J	5.0
591-78-6	2-Hexanone	2.0	J	5.0
127-18-4	Tetrachloroethene	6.4		1.0
79-34-5	1,1,2,2-Tetrachloroethane		U	1.0
108-88-3	Toluene		U	1.0
106-93-4	1,2-Dibromoethane	6.5		1.0
108-90-7	Chlorobenzene		U	1.0
100-41-4	Ethylbenzene		U	1.0
1330-20-7	m,p-Xylene		U	1.0
1330-20-7	o-Xylene		U	1.0
100-42-5	Styrene		U	1.0
75-25-2	Bromoform	6.4		1.0
541-73-1	1,3-Dichlorobenzene			1.0

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SEVERN
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NYSDOH 10142

NJDEP 73015

FORM 1/VOA

CTDOH'S PH-0564

EPA NY049

PA 68-378

3/00

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCS010

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 017VLCS
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081716.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 8/17/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	6.3		1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane		U	1.0

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FORM 1 VOA

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0564

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

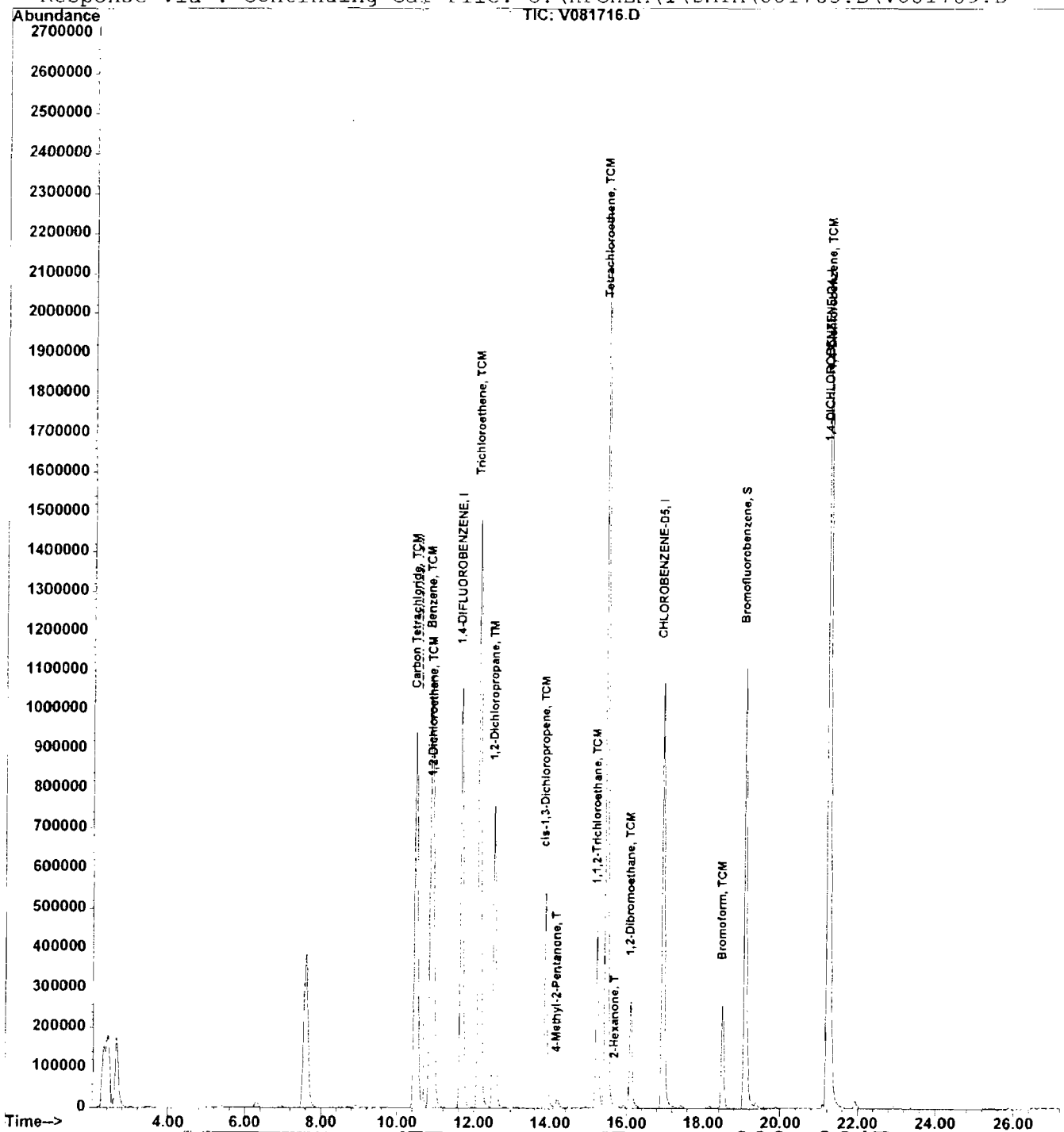
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\081716.D
 Acq On : 17 Aug 2005 21:20
 Sample : 017,,VLCS
 Misc : VLCS010|017,,VBLX|
 MS Integration Params: rteint.p
 Quant Time: Aug 18 8:54 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\081709.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081716.D Vial: 6
 Acq On : 17 Aug 2005 21:20 Operator: DMD
 Sample : 017,,VLCS Inst : MSD
 Misc : VLCS010|017,,VBLK| Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 18 8:54 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
 DataAcq Meth : 9540817

pmDg/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2185791	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1512181	5.00	ug/l	-0.01
32) 1,4-DICHLOROBENZENE-D4	21.22	152	782810	5.00	ug/l	0.00

System Monitoring Compounds

20) Bromofluorobenzene	19.09	174	886999	5.03	ug/l	-0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) 1,2-Dichloroethane	10.94	62	633744	6.59	ug/l	99
23) Carbon Tetrachloride	10.49	117	1723885	6.09	ug/l	95
25) 1,2-Dichloropropane	12.54	63	726263	6.60	ug/l	100
26) cis-1,3-Dichloropropene	13.89	75	735721	6.34	ug/l	99
27) Trichloroethene	12.14	95	1319084	6.16	ug/l	98
28) Benzene	10.89	78	2292914	6.42	ug/l	100
31) 1,1,2-Trichloroethane	15.23	97	357735	6.57	ug/l	96
33) 4-Methyl-2-Pentanone	14.21	43	49902	2.06	ug/l	96
34) 2-Hexanone	15.72	43	33309	2.05	ug/l	87
35) Tetrachloroethene	15.47	166	1882108	6.39	ug/l	99
38) 1,2-Dibromoethane	16.12	107	500667	6.53	ug/l	98
44) Bromoform	18.51	173	309737	6.45	ug/l #	95
46) 1,4-Dichlorobenzene	21.26	146	1700221	6.27	ug/l	99

(#) = qualifier out of range (m) = manual integration **307 of 317**

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

151 BHRMS

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-016MS
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081723.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. Date Analyzed: 8/18/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane	5.3		1.0
74-83-9	Bromomethane	5.1		1.0
75-01-4	Vinyl Chloride	4.8		1.0
75-00-3	Chloroethane	4.9		1.0
75-09-2	Methylene Chloride	5.9		2.0
67-64-1	Acetone	23		5.0
75-15-0	Carbon Disulfide	5.0		1.0
75-35-4	1,1-Dichloroethene	4.9		1.0
75-34-4	1,1-Dichloroethane	5.3		1.0
156-60-5	trans-1,2-Dichloroethene	5.1		1.0
540-59-0	cis-1,2-Dichloroethene	5.5		1.0
67-66-3	Chloroform	5.4		1.0
107-06-2	1,2-Dichloroethane	5.8		1.0
78-93-3	2-Butanone	27	E	5.0
75-27-4	Bromochloromethane	5.8		1.0
108-05-4	Vinyl Acetate	12		1.0
71-55-6	1,1,1-Trichloroethane	4.7		1.0
56-23-5	Carbon Tetrachloride	4.7		1.0
75-27-4	Bromodichloromethane	5.4		1.0
78-87-5	1,2-Dichloropropane	5.3		1.0
10061-01-5	cis-1,3-Dichloropropene	5.5		1.0
79-01-6	Trichloroethene	4.8		1.0
71-43-2	Benzene	5.0		1.0
124-48-1	Dibromochloromethane	5.7		1.0
10061-02-6	trans-1,3-Dichloropropene	5.8		1.0
79-00-5	1,1,2-Trichloroethane	5.5		1.0
108-10-1	4-Methyl-2-Pentanone	27	E	5.0
591-78-6	2-Hexanone	26	E	5.0
127-18-4	Tetrachloroethene	4.5		1.0
79-34-5	1,1,2,2-Tetrachloroethane	5.4		1.0
108-88-3	Toluene	4.7		1.0
106-93-4	1,2-Dibromoethane	5.5		1.0
108-90-7	Chlorobenzene	4.9		1.0
100-41-4	Ethylbenzene	4.6		1.0
1330-20-7	m,p-Xylene	9.3		1.0
1330-20-7	o-Xylene	4.9		1.0
100-42-5	Styrene	4.9		1.0
75-25-2	Bromoform	5.8		1.0
541-73-1	1,3-Dichlorobenzene	5.1		1.0

308 of 317

SEVERN
TRINT STL

NYSOHS 10142

NJDEP 73015

FORM 1/VOA

CTDCHS PH-0554

EPA NY049

PA 68-378

3/00

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

151 BHRMS

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: 251041-016MS

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081723.D

Level: (low/med) LOW Date Received: 8/12/2005

% Moisture: not dec. Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	5.1		1.0
95-50-1	1,2-Dichlorobenzene	5.3		1.0
96-12-8	1,2-Dibromo-3-Chloropropane	6.4		1.0

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NYSDOH 10142

NJDEP 73015

FORM 1 VOA

CTDOHS PH-0554

EPA NY049

PA 68-378

3/00

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

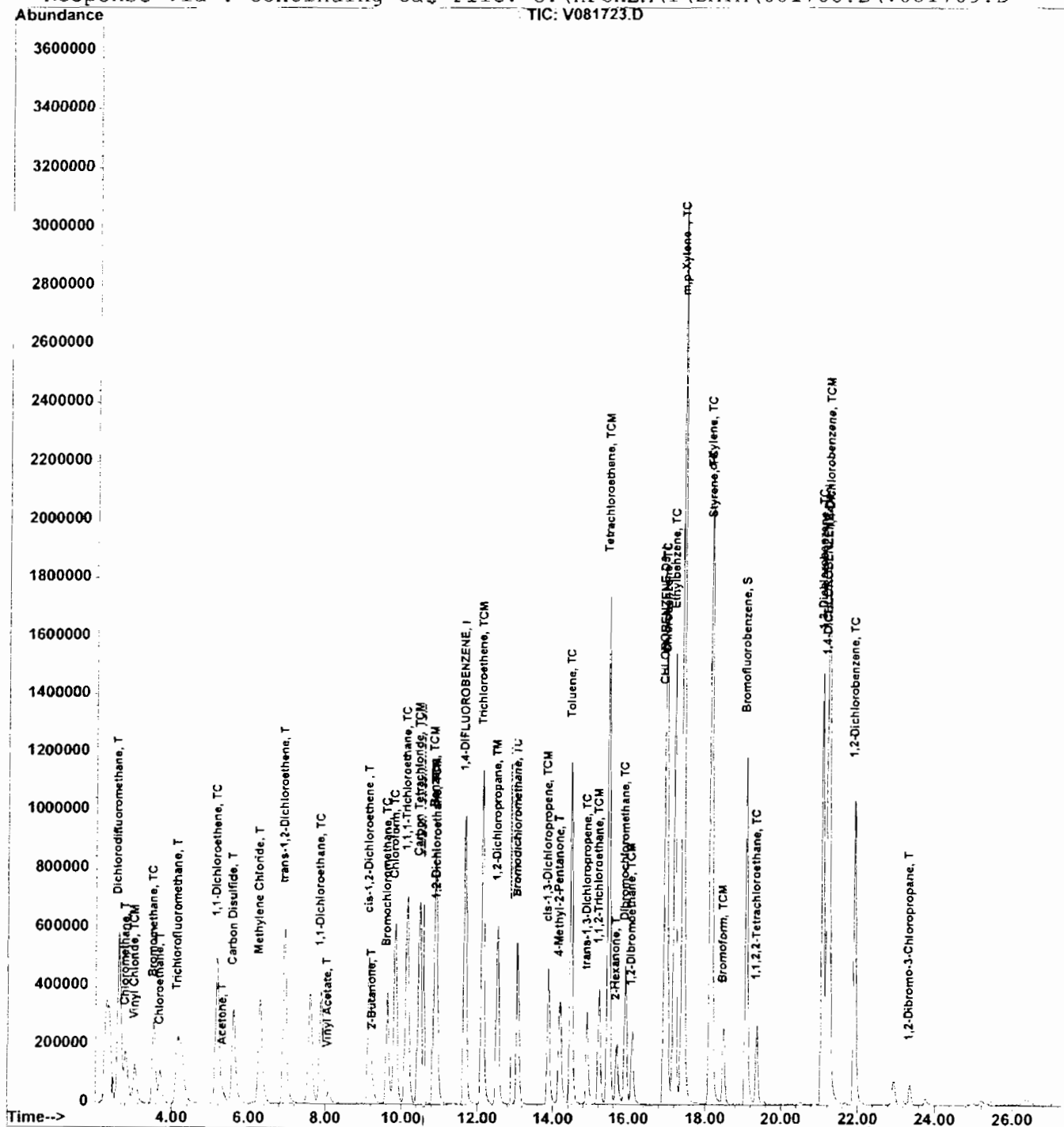
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\081723.D
 Acq On : 18 Aug 2005 1:06
 Sample : 251041-016,,MS,
 Misc : 151 BHRMS|017,,VBLK|MACTEC 95.4
 MS Integration Params: rteint.p
 Quant Time: Aug 18 1:34 2005

Vial: 5
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\081709.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\081723.D
 Acq On : 18 Aug 2005 1:06
 Sample : 251041-016,,MS,
 Misc : 151 BHRMS|017,,VLK|MACTEC 95.4
 MS Integration Params: rteint.p
 Quant Time: Aug 18 1:34 2005

Vial: 5
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\081709.D
 DataAcq Meth : 9540817

DMD 8/3/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2092929	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1518051	5.00	ug/l	-0.02
32) 1,4-DICHLOROBENZENE-D4	21.20	152	851357	5.00	ug/l	-0.02

System Monitoring Compounds

20) Bromofluorobenzene	19.09	174	932820	5.53	ug/l	-0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	110.60%

Target Compounds

Qvalue

2) Dichlorodifluoromethane	2.63	85	1023160	4.76	ug/l	99
3) Chloromethane	2.83	50	539232	5.28	ug/l	98
4) Bromomethane	3.55	94	591883	5.08	ug/l	95
5) Vinyl Chloride	3.07	62	494862	4.77	ug/l	93
6) Chloroethane	3.72	64	318236	4.92	ug/l	99
7) Trichlorofluoromethane	4.18	101	1260287	4.88	ug/l	96
8) Methylene Chloride	6.30	84	570532	5.91	ug/l	90
9) Acetone	5.34	43	137164	23.42	ug/l	97
10) Carbon Disulfide	5.60	76	1524459	5.05	ug/l	99
11) 1,1-Dichloroethene	5.19	96	680324	4.91	ug/l	95
12) 1,1-Dichloroethane	7.89	63	1261162	5.27	ug/l	97
13) trans-1,2-Dichloroethene	6.96	96	766030	5.06	ug/l	97
14) cis-1,2-Dichloroethene	9.17	96	649898	5.46	ug/l	94
15) Chloroform	9.85	83	1379488	5.44	ug/l	99
16) 1,2-Dichloroethane	10.94	62	531972	5.78	ug/l	99
17) 2-Butanone	9.26	43	221705	27.45	ug/l	96
18) Bromochloromethane	9.64	128	306788	5.76	ug/l #	91
19) Vinyl Acetate	8.09	43	205505	12.18	ug/l	97
22) 1,1,1-Trichloroethane	10.16	97	1367243	4.67	ug/l	97
23) Carbon Tetrachloride	10.49	117	1336946	4.70	ug/l	97
24) Bromodichloromethane	13.08	83	893333	5.45	ug/l	99
25) 1,2-Dichloropropane	12.54	63	584244	5.29	ug/l	99
26) cis-1,3-Dichloropropene	13.89	75	644367	5.53	ug/l	93
27) Trichloroethene	12.14	95	1031019	4.79	ug/l	95
28) Benzene	10.89	78	1794826	5.00	ug/l	100
29) Dibromochloromethane	15.93	129	605956	5.70	ug/l	97
30) trans-1,3-Dichloropropene	14.92	75	419618	5.82	ug/l	100
31) 1,1,2-Trichloroethane	15.23	97	300419	5.50	ug/l	99
33) 4-Methyl-2-Pentanone	14.19	43	721950	27.39	ug/l	96
34) 2-Hexanone	15.69	43	458572	25.99	ug/l	97
35) Tetrachloroethene	15.47	166	1440798	4.50	ug/l	98
36) 1,1,2,2-Tetrachloroethane	19.37	83	341896	5.45	ug/l	99

(#) = qualifier out of range (m) = manual integration **311 of 317**
 V081723.D 9540817.M Thu Aug 18 09:01:44 2005 MSD

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\081723.D Vial: 5
Acq On : 18 Aug 2005 1:06 Operator: DMD
Sample : 251041-016,,MS, Inst : MSD
Misc : 151 BHRMS1017,,VBLK\MACTEC 95.4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 1:34 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\081709.D
DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Toluene	14.49	91	2204282	4.73	ug/l	97
38) 1,2-Dibromoethane	16.11	107	456545	5.47	ug/l	99
39) Chlorobenzene	17.01	112	1629508	4.92	ug/l	99
40) Ethylbenzene	17.22	91	2896230	4.65	ug/l	99
41) m,p-Xylene	17.43	106	2144813	9.28	ug/l	95
42) o-Xylene	18.14	106	966140	4.88	ug/l	99
43) Styrene	18.17	104	1319517	4.88	ug/l	98
44) Bromoform	18.50	173	300823	5.76	ug/l #	96
45) 1,3-Dichlorobenzene	21.08	146	1515107	5.06	ug/l	97
46) 1,4-Dichlorobenzene	21.24	146	1515152	5.14	ug/l	95
47) 1,2-Dichlorobenzene	21.93	146	1155847	5.31	ug/l	97
48) 1,2-Dibromo-3-Chloropropan	23.37	75	45681	6.35	ug/l	92

(#) = qualifier out of range (m) = manual integration 312 of 317

V081723.D 9540817.M Thu Aug 18 09:01:45 2005 MSD

Page 2

VOLATILE ORGANICS ANALYSIS DATA SHEET

151 BHRMSD

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: 251041-016MSD

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081724.D

Level: (low/med) LOW Date Received: 8/12/2005

% Moisture: not dec. Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane	5.0		1.0
74-83-9	Bromomethane	5.0		1.0
75-01-4	Vinyl Chloride	4.7		1.0
75-00-3	Chloroethane	4.9		1.0
75-09-2	Methylene Chloride	5.3		2.0
67-64-1	Acetone	21		5.0
75-15-0	Carbon Disulfide	5.1		1.0
75-35-4	1,1-Dichloroethene	4.8		1.0
75-34-4	1,1-Dichloroethane	5.2		1.0
156-60-5	trans-1,2-Dichloroethene	4.8		1.0
540-59-0	cis-1,2-Dichloroethene	5.3		1.0
67-66-3	Chloroform	5.3		1.0
107-06-2	1,2-Dichloroethane	5.8		1.0
78-93-3	2-Butanone	27	E	5.0
75-27-4	Bromochloromethane	5.8		1.0
108-05-4	Vinyl Acetate	12		1.0
71-55-6	1,1,1-Trichloroethane	4.7		1.0
56-23-5	Carbon Tetrachloride	4.6		1.0
75-27-4	Bromodichloromethane	5.4		1.0
78-87-5	1,2-Dichloropropane	5.3		1.0
10061-01-5	cis-1,3-Dichloropropene	5.5		1.0
79-01-6	Trichloroethene	4.7		1.0
71-43-2	Benzene	4.9		1.0
124-48-1	Dibromochloromethane	5.7		1.0
10061-02-6	trans-1,3-Dichloropropene	5.8		1.0
79-00-5	1,1,2-Trichloroethane	5.6		1.0
108-10-1	4-Methyl-2-Pentanone	28	E	5.0
591-78-6	2-Hexanone	25	E	5.0
127-18-4	Tetrachloroethene	4.5		1.0
79-34-5	1,1,2,2-Tetrachloroethane	5.5		1.0
108-88-3	Toluene	4.8		1.0
106-93-4	1,2-Dibromoethane	5.6		1.0
108-90-7	Chlorobenzene	5.0		1.0
100-41-4	Ethylbenzene	4.6		1.0
1330-20-7	m,p-Xylene	9.4		1.0
1330-20-7	o-Xylene	4.9		1.0
100-42-5	Styrene	4.8		1.0
75-25-2	Bromoform	6.0		1.0
541-73-1	1,3-Dichlorobenzene	5.1		1.0

313 of 317

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

151 BHRMSD

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-016MSD
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081724.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. Date Analyzed: 8/18/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene	5.2		1.0
95-50-1	1,2-Dichlorobenzene	5.2		1.0
96-12-8	1,2-Dibromo-3-Chloropropane	6.3		1.0

314 of 317

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NYSDOH 10142

NJDEP 73015

FORM 1 VOA

CTDCHS PH-0564

EPA NY049

PA 68-378

3/00

M-NY049

STL Newburgh
 315 Fullerton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0841

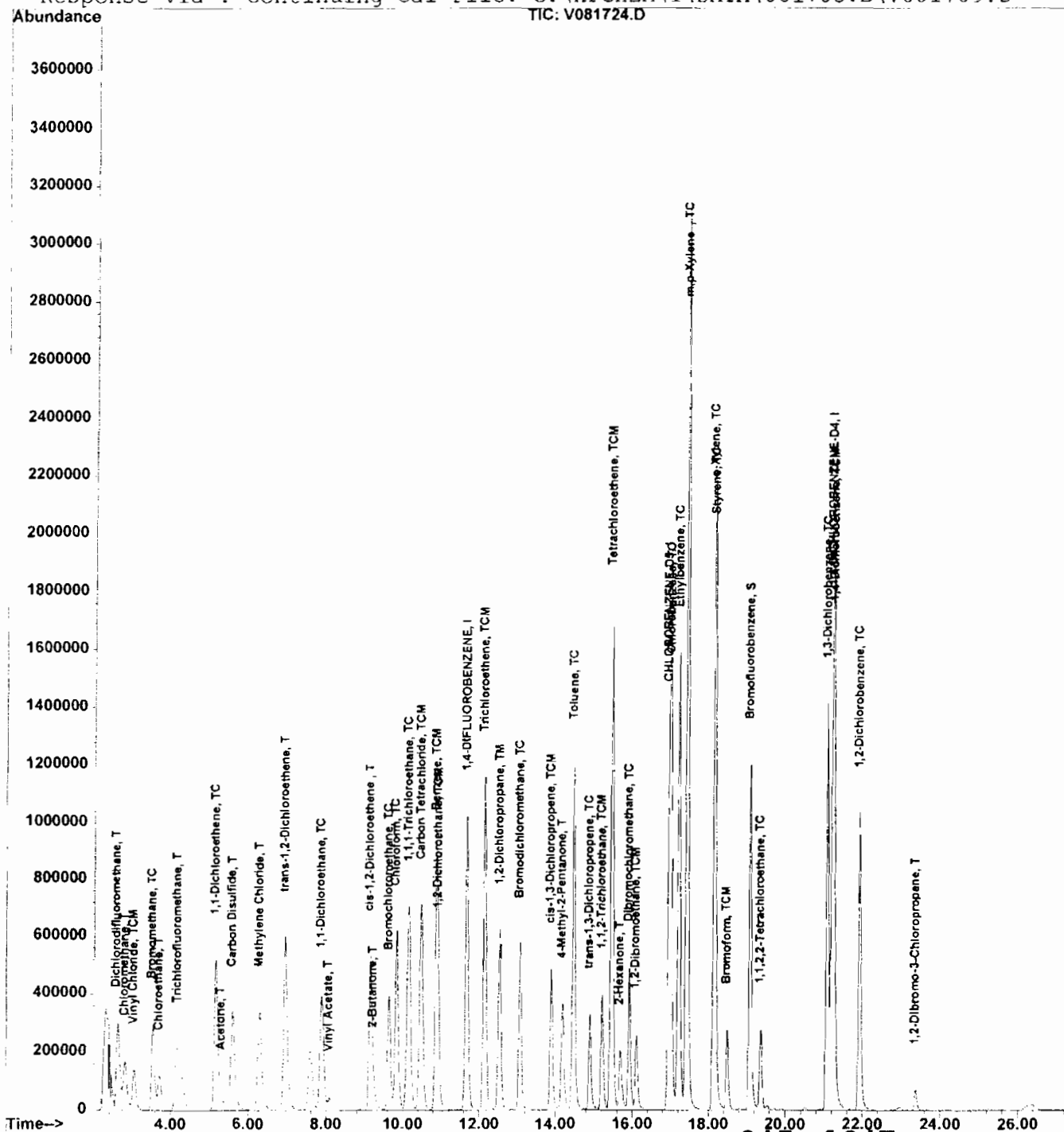
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\081724.D
Acq On : 18 Aug 2005 1:39
Sample : 251041-016,,MSD,
Misc : 151 BHRMSD|017,,VBLK|MACTEC 95.4
MS Integration Params: rteint.p
Quant Time: Aug 18 2:06 2005 Quan

Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Results File: 9540817.RES

```
Method       : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title        : VOA Standards for 5 point calibration
Last Update  : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
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Data File : C:\HPCHEM\1\DATA\081705.B\081724.D
 Acq On : 18 Aug 2005 1:39
 Sample : 251041-016,,MSD,
 Misc : 151 BHRMSD\017,,WBLK\MACTEC 95.4
 MS Integration Params: rteint.p
 Quant Time: Aug 18 2:06 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\081709.D
 DataAcq Meth : 9540817

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2204231	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1581038	5.00	ug/l	-0.02
32) 1,4-DICHLOROBENZENE-D4	21.21	152	865274	5.00	ug/l	0.00

System Monitoring Compounds

20) Bromofluorobenzene	19.09	174	949211	5.34	ug/l	-0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.61	85	927433	4.09	ug/l	97
3) Chloromethane	2.83	50	538876	5.01	ug/l	96
4) Bromomethane	3.54	94	614018	5.01	ug/l	95
5) Vinyl Chloride	3.06	62	509367	4.66	ug/l	97
6) Chloroethane	3.71	64	332038	4.87	ug/l	98
7) Trichlorofluoromethane	4.19	101	1242914	4.57	ug/l	98
8) Methylene Chloride	6.30	84	540061	5.31	ug/l #	89
9) Acetone	5.32	43	130667	21.18	ug/l	97
10) Carbon Disulfide	5.60	76	1614980	5.08	ug/l	99
11) 1,1-Dichloroethene	5.17	96	708198	4.85	ug/l	96
12) 1,1-Dichloroethane	7.89	63	1300790	5.16	ug/l	99
13) trans-1,2-Dichloroethene	6.94	96	766428	4.81	ug/l	99
14) cis-1,2-Dichloroethene	9.15	96	665438	5.31	ug/l	98
15) Chloroform	9.84	83	1423774	5.33	ug/l	96
16) 1,2-Dichloroethane	10.54	62	565412	5.83	ug/l	99
17) 2-Butanone	9.24	43	229465	26.98	ug/l	97
18) Bromochloromethane	9.64	128	323276	5.76	ug/l #	91
19) Vinyl Acetate	8.08	43	216731	12.19	ug/l	99
22) 1,1,1-Trichloroethane	10.16	97	1432904	4.70	ug/l	98
23) Carbon Tetrachloride	10.49	117	1353511	4.57	ug/l	95
24) Bromodichloromethane	13.08	83	928632	5.44	ug/l	99
25) 1,2-Dichloropropane	12.54	63	605393	5.26	ug/l	98
26) cis-1,3-Dichloropropene	13.89	75	665848	5.49	ug/l	99
27) Trichloroethene	12.14	95	1052549	4.70	ug/l	99
28) Benzene	10.89	78	1838559	4.92	ug/l	100
29) Dibromochloromethane	15.93	129	630211	5.69	ug/l	100
30) trans-1,3-Dichloropropene	14.90	75	438621	5.84	ug/l	99
31) 1,1,2-Trichloroethane	15.23	97	316836	5.57	ug/l	96
33) 4-Methyl-2-Pentanone	14.19	43	743316	27.75	ug/l	100
34) 2-Hexanone	15.69	43	449362	25.06	ug/l	98
35) Tetrachloroethene	15.47	166	1453662	4.47	ug/l	99
36) 1,1,2,2-Tetrachloroethane	19.37	83	353285	5.54	ug/l	100

(#) = qualifier out of range (m) = manual integration **316 of 317**

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081724.D Vial: 6
Acq On : 18 Aug 2005 1:39 Operator: DMD
Sample : 251041-016,,MSD, Inst : MSD
Misc : 151 BHRMSD\017,,VBLK\MACTEC 95.4 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 18 2:06 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Wed Aug 17 19:10:46 2005
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
DataAcq Meth : 9540817

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Toluene	14.49	91	2262586	4.78 ug/l	96
38) 1,2-Dibromoethane	16.11	107	475573	5.61 ug/l	99
39) Chlorobenzene	17.01	112	1664689	4.95 ug/l	98
40) Ethylbenzene	17.22	91	2945532	4.65 ug/l	100
41) m,p-Xylene	17.43	106	2197368	9.35 ug/l	96
42) o-Xylene	18.14	106	991701	4.93 ug/l	99
43) Styrene	18.17	104	1322166	4.81 ug/l	96
44) Bromoform	18.50	173	320149	6.03 ug/l #	96
45) 1,3-Dichlorobenzene	21.08	146	1541301	5.06 ug/l	97
46) 1,4-Dichlorobenzene	21.26	146	1550942	5.18 ug/l	97
47) 1,2-Dichlorobenzene	21.93	146	1157784	5.23 ug/l	100
48) 1,2-Dibromo-3-Chloropropan	23.38	75	45876	6.28 ug/l	90

(#) = qualifier out of range (m) = manual integration **317 of 317**

V081724.D 9540817.M

Thu Aug 18 09:01:53 2005

MSD

Page 2



Volatile Organic pH/Chlorine Residual Verification

Date	Lab Sample ID	pH<2.5	NA	CL.RES.	Initials	Date	Lab Sample ID	pH<2.5	NA	CL.RES.	Initials
8/10/05	250927-1		✓		KE	8/11/05	250989 1-7	Y			Dmg
	250924-1	Y					250990 1-8	Y			
	250943-1-5	Y	5				250992-1	Y			
8/10/05	250932-1-3	Y				8/12/05	250992-2-13	Y	6.8, 9		
	250934-1	Y					9938-1	Y			
	250935-1	Y					251014 250-1-3	Y	-2		
	250939-1	Y					251012-1	Y			
	250949-1-9	Y					251019-1	Y			
	250950-1	~					251029-4	N			
	250951-1-2	Y					1041-1-16	Y	13	Dmg	
	250977-1	Y					251014 1-8	Y	8	✓	
	250978-1-3	Y					045-1-3	Y	✓		
	250969-1		✓				0461-4	Y	→ 03N		
	250976-1	Y					053-1	Y			
	250952-1-3	~					057-1	Y	✓		
8/11/05	250985 1-13	Y	-6		Dmg		058-1	Y	✓		
	250986 1-12	Y					059-1	Y	✓		
	250987 1-3	Y					059-1	Y	✓		
	250988 1-2	Y					065 1-11	Y			

phbook

* NA = No extra vial provided for pH/Chlorine Residual. pH determined after sample analysis.

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000069

SEVERN
TRENT STL

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

Injection Log

Directory: z:\msd\aug2005\081705.b

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	6	v081701.d	1.	BFB	BFB	17 Aug 05 09:0
2	6	v081702.d	1.	BFB	BFB	17 Aug 05 09:0
3	6	v081703.d	1.	BFB	BFB	17 Aug 05 10:0
4	6	v081704.d	1.	001,,VSTD	VSTD001	17 Aug 05 11:0
5	6	v081705.d	1.	025,,VSTD	VSTD025	17 Aug 05 12:0
6	6	v081706.d	1.	BFB	BFB	17 Aug 05 14:0
7	6	v081707.d	1.	001,,VSTD	VSTD001	17 Aug 05 15:0
8	6	v081708.d	1.	002,,VSTD	VSTD002	17 Aug 05 16:0
9	6	v081709.d	1.	005,,VSTD	VSTD005	17 Aug 05 17:0
10	6	v081710.d	1.	010,,VSTD	VSTD010	17 Aug 05 18:0
11	6	v081711.d	1.	025,,VSTD	VSTD025	17 Aug 05 19:0
12	6	v081712.d	1.	RINSE	RINSE	17 Aug 05 19:0
13	6	v081713.d	1.	017,,VBLK	VBLK017	17 Aug 05 19:0
14	6	v081714.d	1.	010,,VBLK	VBLK010 017,,VBLK	17 Aug 05 20:0
15	6	v081715.d	1.	017,,VBSPK	VBSPK010 017,,VBLK	17 Aug 05 20:0
16	6	v081716.d	1.	017,,VLCS	VLCS010 017,,VBLK	17 Aug 05 21:0
17	15	v081717.d	1.	251041-001,,	TRIP BLANK 017,,VBLK MACTEC 95.4	17 Aug 05 21:0
18	16	v081718.d	1.	251041-012,,	SARNEY 017,,VBLK MACTEC 95.4	17 Aug 05 22:0
19	1	v081719.d	1.	251041-013,,	EMERSON 017,,VBLK MACTEC 95.4	17 Aug 05 22:0
20	2	v081720.d	1.	251041-014,,	HURBURT 017,,VBLK MACTEC 95.4	17 Aug 05 23:0
21	3	v081721.d	1.	251041-015,,	TAYLOR 017,,VBLK MACTEC 95.4	18 Aug 05 00:0
22	4	v081722.d	1.	251041-016,,	151 BHR 017,,VBLK MACTEC 95.4	18 Aug 05 00:0
23	5	v081723.d	1.	251041-016,,MS,	151 BHRMS 017,,VBLK MACTEC 95.4	18 Aug 05 00:0
24	6	v081724.d	1.	251041-016,,MSD,	151 BHRMSD 017,,VBLK MACTEC 95.4	18 Aug 05 00:0
25	7	v081725.d	1.	017,,VLCS	VLCS017 017,,VBLK	18 Aug 05 00:0

Injection Log

Directory: z:\msd\aug2005\081805.b

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	6	v081801.d	1.	BFB	BFB	18 Aug 05 08:11
2	6	v081802.d	1.	010,,VSTD	VSTD010	18 Aug 05 10:09
3	6	v081803.d	1.	020,,VSTD	VSTD020	18 Aug 05 11:11
4	6	v081804.d	1.	050,,VSTD	VSTD050	18 Aug 05 12:11
5	6	v081805.d	1.	100,,VSTD	VSTD100	18 Aug 05 13:11
6	6	v081806.d	1.	200,,VSTD	VSTD200	18 Aug 05 14:11
7	6	v081807.d	1.	BFB	BFB	18 Aug 05 14:11
8	6	v081808.d	1.	050,,VSTD	VSTD050	18 Aug 05 15:11
9	6	v081809.d	1.	018,,VBLK	VBLK018	18 Aug 05 16:11
10	6	v081810.d	1.	010,,VSBK	VSBK010 018,,VBLK	18 Aug 05 17:11
11	6	v081811.d	1.	018,,VBSPK	VBSPK018 018,,VBLK	18 Aug 05 17:11
12	6	v081812.d	1.	018,,VLCS	VLCS018 018,,VBLK	18 Aug 05 18:11
13	10	v081813.d	1.	251041-002,,	MW7D-D FB 018,,VBLK MACTEC 95.1	18 Aug 05 18:11
14	11	v081814.d	1.	251041-003,,	MW7D-D 018,,VBLK MACTEC 95.1	18 Aug 05 19:11
15	12	v081815.d	1.	251041-004,,	MW7D-D DUP 018,,VBLK MACTEC 95.1	18 Aug 05 19:11
16	13	v081816.d	1.	251041-005,,	MW7D-S 018,,VBLK MACTEC 95.1	18 Aug 05 20:11
17	14	v081817.d	1.	251041-006,,	MW9D-1 018,,VBLK MACTEC 95.1	18 Aug 05 20:11
18	15	v081818.d	1.	251041-007,,	MW9D-2 018,,VBLK MACTEC 95.1	18 Aug 05 21:11
19	16	v081819.d	1.	251041-008,,	MW9D-3 018,,VBLK MACTEC 95.1	18 Aug 05 21:11
20	1	v081820.d	1.	251041-009,,	MW10D-1 018,,VBLK MACTEC 95.1	18 Aug 05 22:11
21	2	v081821.d	1.	251041-010,,	MW10D-2 018,,VBLK MACTEC 95.1	18 Aug 05 22:11
22	3	v081822.d	1.	251041-011,,	MW10D-3 018,,VBLK MACTEC 95.1	18 Aug 05 23:11
23	4	v081823.d	1.	251041-003,,MS,	MW7D-DMS 018,,VBLK MACTEC 95.1	18 Aug 05 23:11
24	5	v081824.d	1.	251041-003,,MSD,	MW7D-DMSD 018,,VBLK MACTEC 95.1	19 Aug 05 00:11
25	6	v081825.d	1.	BLK		19 Aug 05 00:11
26	7	v081826.d	1.	BLK		19 Aug 05 01:11
27	8	v081827.d	1.	BLK		19 Aug 05 02:11

Injection Log

Directory: z:\msd\aug2005\081905.b

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	6	v081901.d	1.	BFB	BFB	19 Aug 05 09:0
2	6	v081902.d	1.	050,,VSTD	VSTD050	19 Aug 05 10:7
3	6	v081903.d	1.	019,,VBLK	VBLK019	19 Aug 05 12:0
4	6	v081904.d	1.	019,,VBSPK	VBSPK019 019,,VBLK	19 Aug 05 13:0
5	11	v081905.d	1.	251041-003,,DL,,X10	MW7D-D 019,,VBLK MACTEC 95.1	19 Aug 05 14:1
6	12	v081906.d	1.	251041-004,,DL,,X10	MW7D-D DUP 019,,VBLK MACTEC 95.1	19 Aug 05 15:0
7	13	v081907.d	1.	251041-007,,	MW9D-2 019,,VBLK MACTEC 95.1	19 Aug 05 15:0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\081705.B\V081714.D Vial: 6
 Acq On : 17 Aug 2005 20:16 Operator: DMD
 Sample : 010,,VSBLK Inst : MSD
 Misc : VSBLK010\017,,VBLK Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Aug 18 8:51 2005 Quant Results File: 9540817.RES

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\V081709.D
 DataAcq Meth : 9540817

DMD 8/31/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	11.68	114	2171308	5.00	ug/l	0.00
21) CHLOROBENZENE-D5	16.95	117	1479443	5.00	ug/l	-0.02
32) 1,4-DICHLOROBENZENE-D4	21.21	152	764240	5.00	ug/l	0.00

System Monitoring Compounds

20) Bromofluorobenzene 19.11 174 892965 5.10 ug/l 0.00
 Spiked Amount 5.000 Range 60 - 140 Recovery = 102.00%

Target Compounds

Qvalue

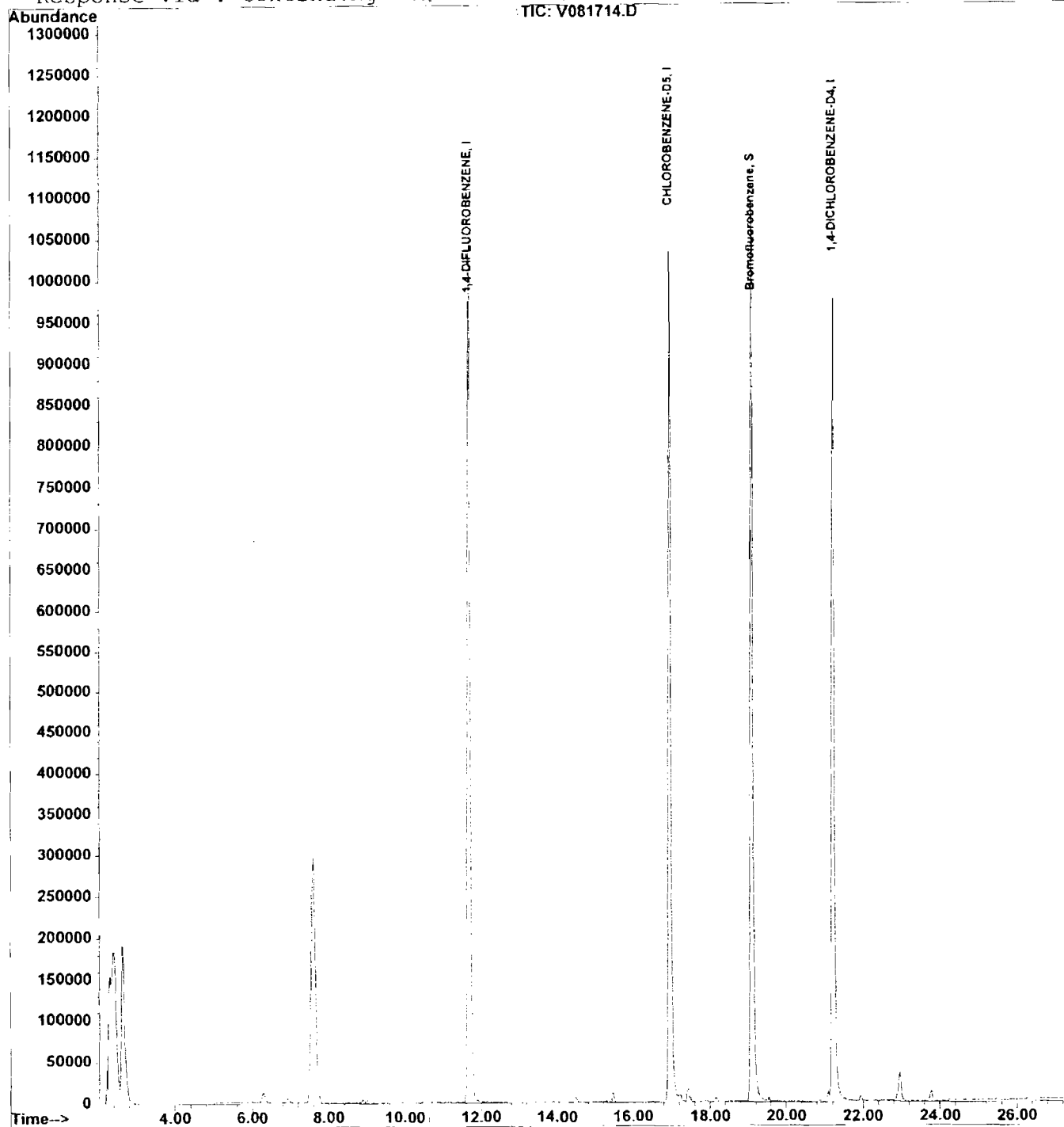
Quantitation Report

Data File : C:\HPCHEM\1\DATA\081705.B\081714.D
 Acq On : 17 Aug 2005 20:16
 Sample : 010,,VSBLK
 Misc : VSBLK010|017,,VBLK|
 MS Integration Params: rteint.p
 Quant Time: Aug 18 8:51 2005

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

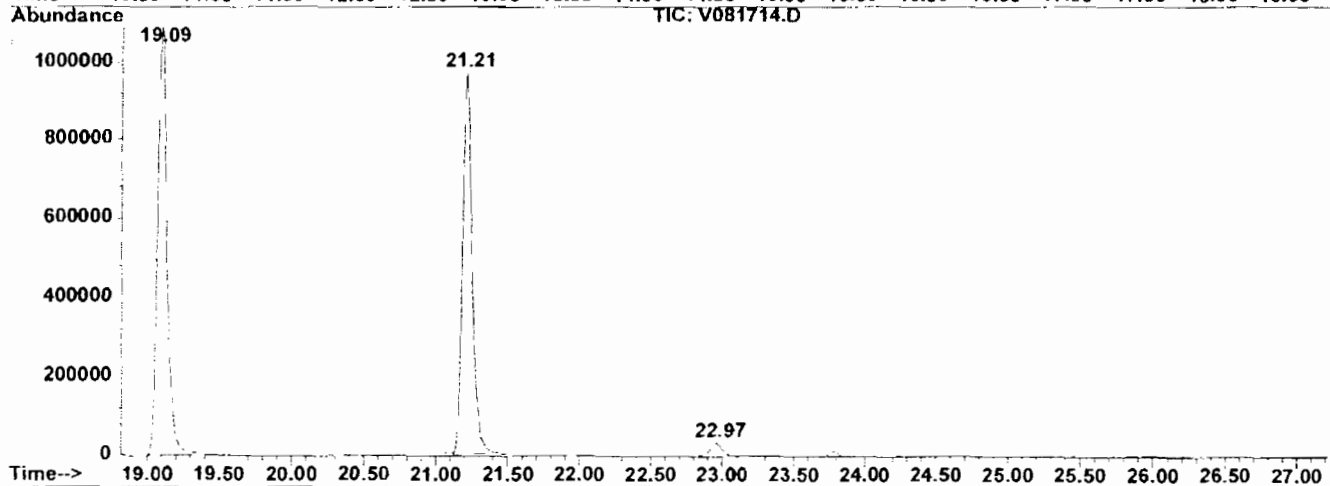
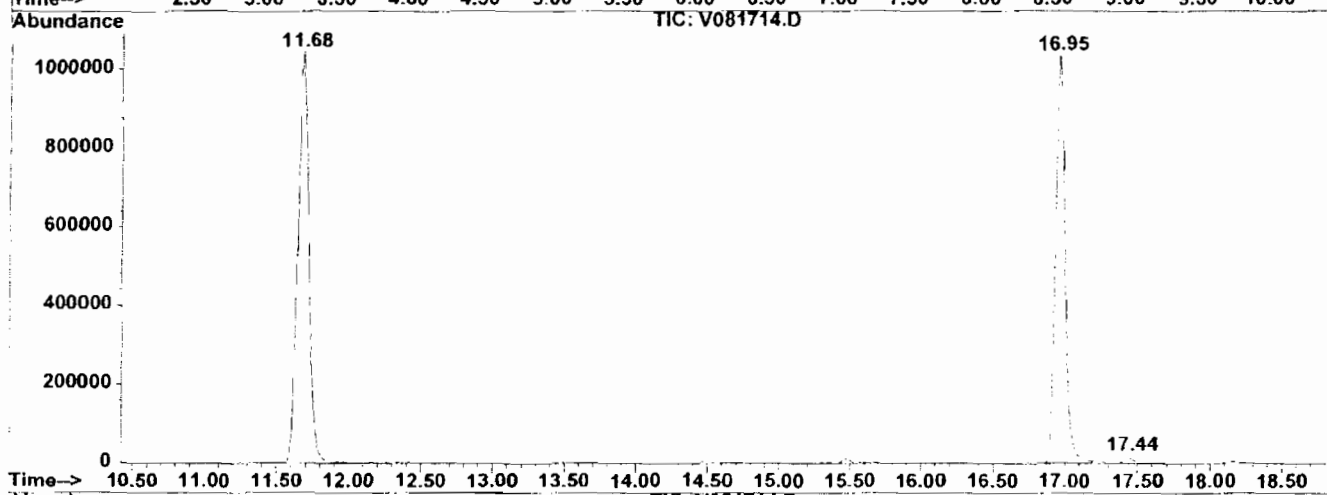
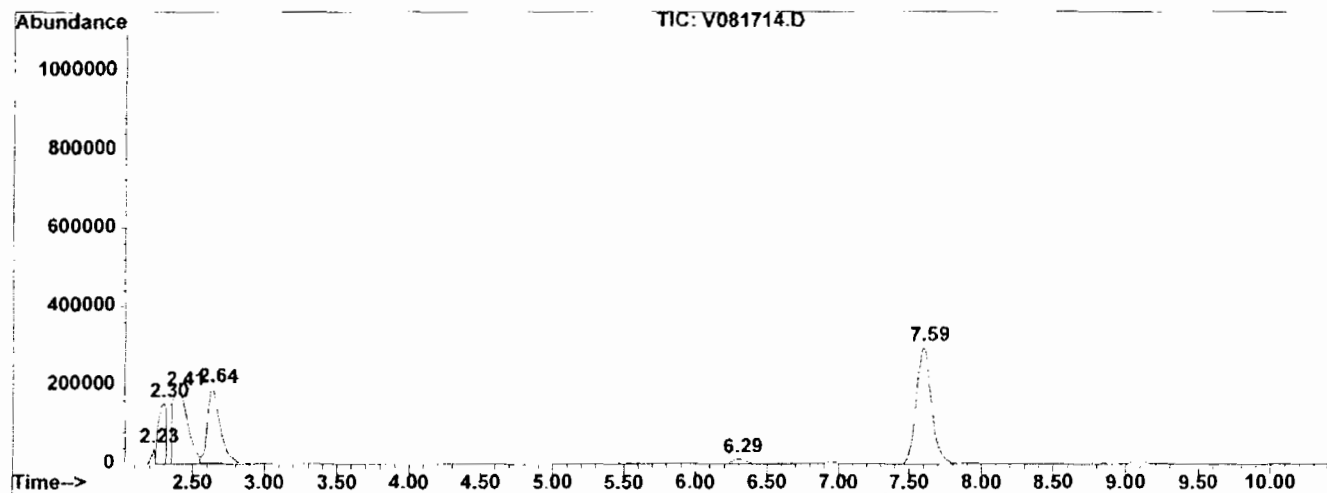
Quant Results File: 9540817.RES

Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Aug 17 19:10:46 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081705.B\081709.D



LSC Report - Integrated Chromatogram

```
File       : C:\HPCHEM\1\DATA\081705.B\081714.D
Operator   : DMD
Acquired    : 17 Aug 2005  20:16      using AcqMethod 9540817
Instrument  : MSD
Sample Name: 010,,VSBLK
Misc Info   : VSBLK010|017,,VBLK|
Vial Number: 6
Quant File  : 9540817.RES (RTE Integrator)
```



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\081705.B\081714.D
Acq On : 17 Aug 2005 20:16
Sample : 010,,VSBLK
Misc : VSBLK010|017,,VBLK|
MS Integration Params: LSCINT.P

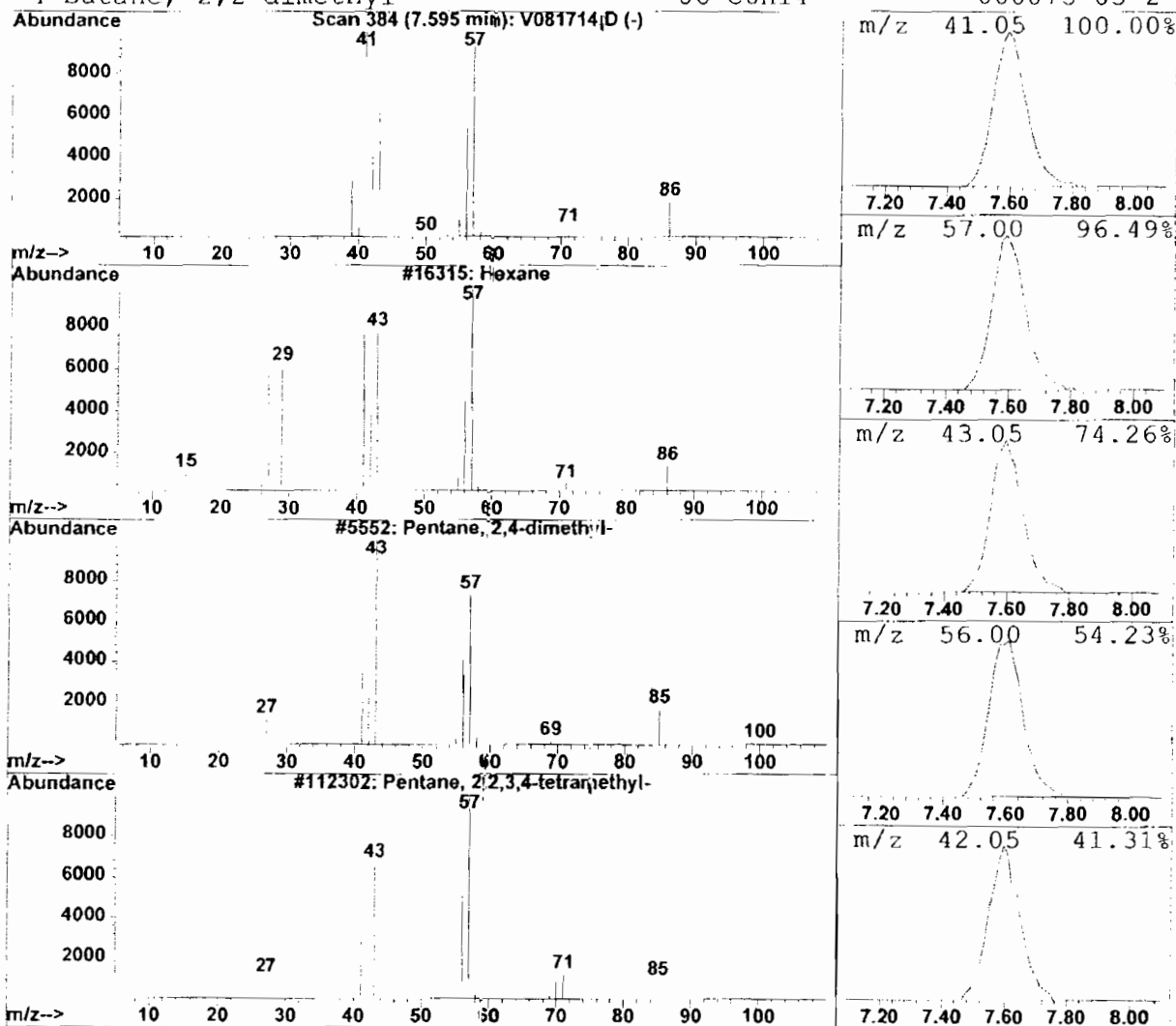
Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

Peak Number 4 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.59	2.03 ug/l	2199320	1,4-DIFLUOROBENZENE	11.68

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane	86	C6H14	000110-54-3	91
2			Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	38
3			Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	25
4			Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	17



Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 17 Aug 2005 20:16
 Data File: C:\HPCHEM\1\DATA\081705.B\V081714.D
 Name: 010,,VBLK
 Misc: VSBLK010|017,,VBLK|
 Method: C:\HPCHEM\1\DATA\081705.B\9540817.M (RTE Integrator)
 Title: VOA Standards for 5 point calibration
 Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Ethanol	2.30	0.5	ug/l	569640	ISTD01	11.68	5425520	5.0
Dimethyl ether	2.41	1.2	ug/l	1275170	ISTD01	11.68	5425520	5.0
Methane, chlorodiflu	2.64	1.0	ug/l	1131990	ISTD01	11.68	5425520	5.0
Hexane	7.59	2.0	ug/l	2199820	ISTD01	11.68	5425520	5.0

V081714.D 9540817.M Thu Aug 18 09:02:31 2005 MSD

Quantitation Report (QT Reviewed)

Data File : Z:\MSD\081805.B\081810.D

Vial: 6

Acq On : 18 Aug 2005 5:10 pm

Operator: DMD

Sample : 0107,,VSBLK *DMQ 8/31/05*

Inst : MSD

Misc : VSBLK0101018,,VBLK1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Quant Time: Aug 19 9:47 19105

Quant Results File: 9510818.RES

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)

Title : Method 91.1, 8240, and 624 waters.

Last Update : Thu Aug 18 14:01:32 2005

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\081808.D

DataAcq Meth : 9510818

Internal Standards	R.T.	Q Ion	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	9.28	49	1876759	50.00	ug/l	0.00
22) 1,4-Difluorobenzene	11.09	114	4971433	50.00	ug/l	0.00
36) Chlorobenzene-d5	15.85	117	3997149	50.00	ug/l	-0.02
System Monitoring Compounds						
19) 1,2-Dichloroethane-d4	10.31	65	1965853	47.94	ug/l	0.00
Spiked Amount 50.000	Range	76 - 114	Recovery	=	95.88%	
42) Toluene-d8	13.52	98	4635611	51.21	ug/l	0.00
Spiked Amount 50.000	Range	88 - 110	Recovery	=	102.42%	
46) Bromofluorobenzene	17.77	95	3489141	49.33	ug/l	0.00
Spiked Amount 50.000	Range	86 - 115	Recovery	=	98.66%	
Target Compounds						
55) 1,2,4-Trichlorobenzene	23.05	180	34760	0.59	ug/l	Qvalue 97

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

V081810.D 9510818.M

Fri Aug 19 11:00:57 2005

RPT1

Page 1

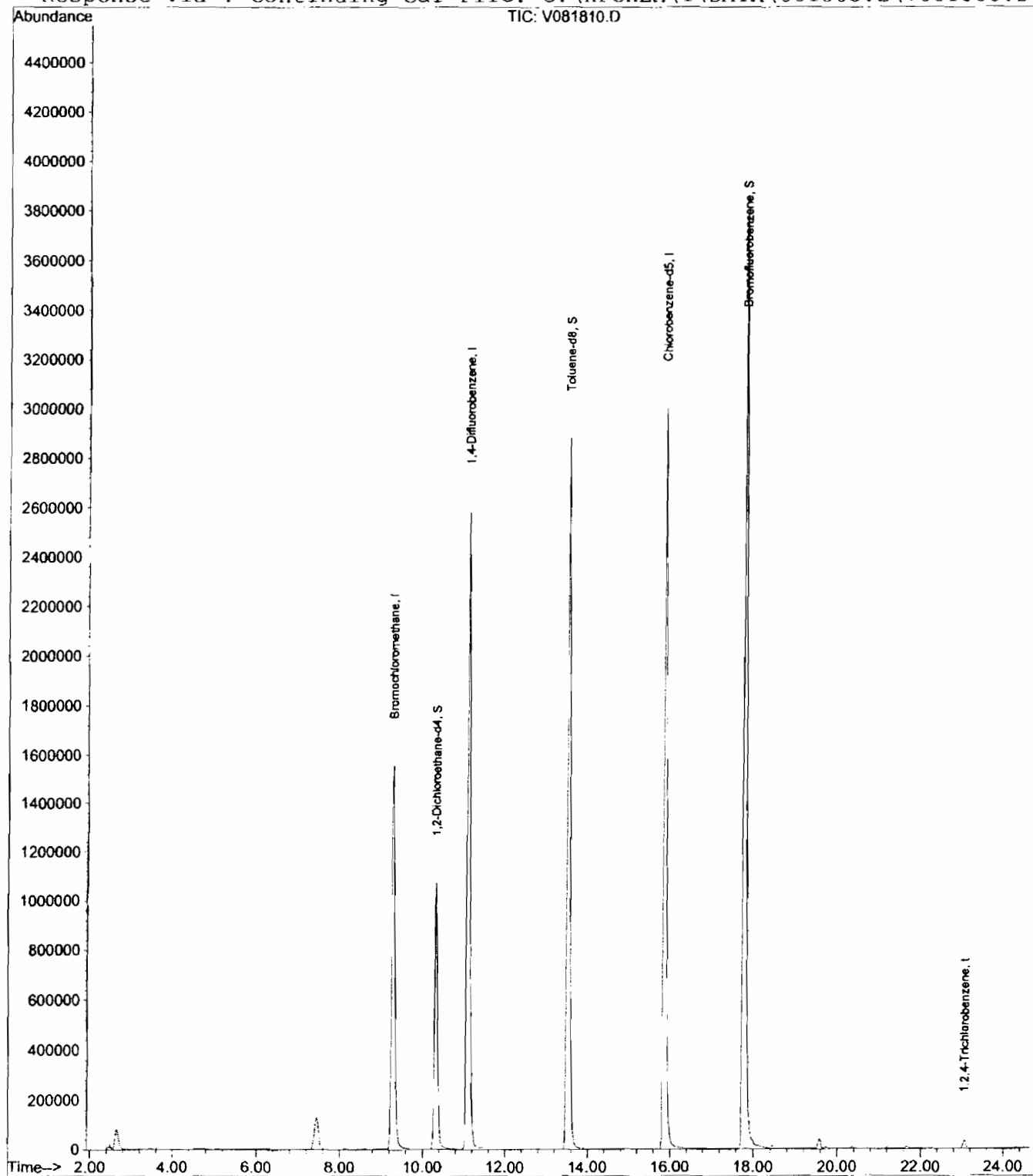
Quantitation Report

Data File : Z:\MSD\081805.B\V081810.D
 Acq On : 18 Aug 2005 5:10 pm
 Sample : 0108,,VSBLK,smo
 Misc : VSBLK0101018,,VBLK|
 MS Integration Params: RTEINT.P
 Quant Time: Aug 19 9:47 19105

Vial: 6
 Operator: DMD
 Inst : MSD
 Multiplr: 1.00

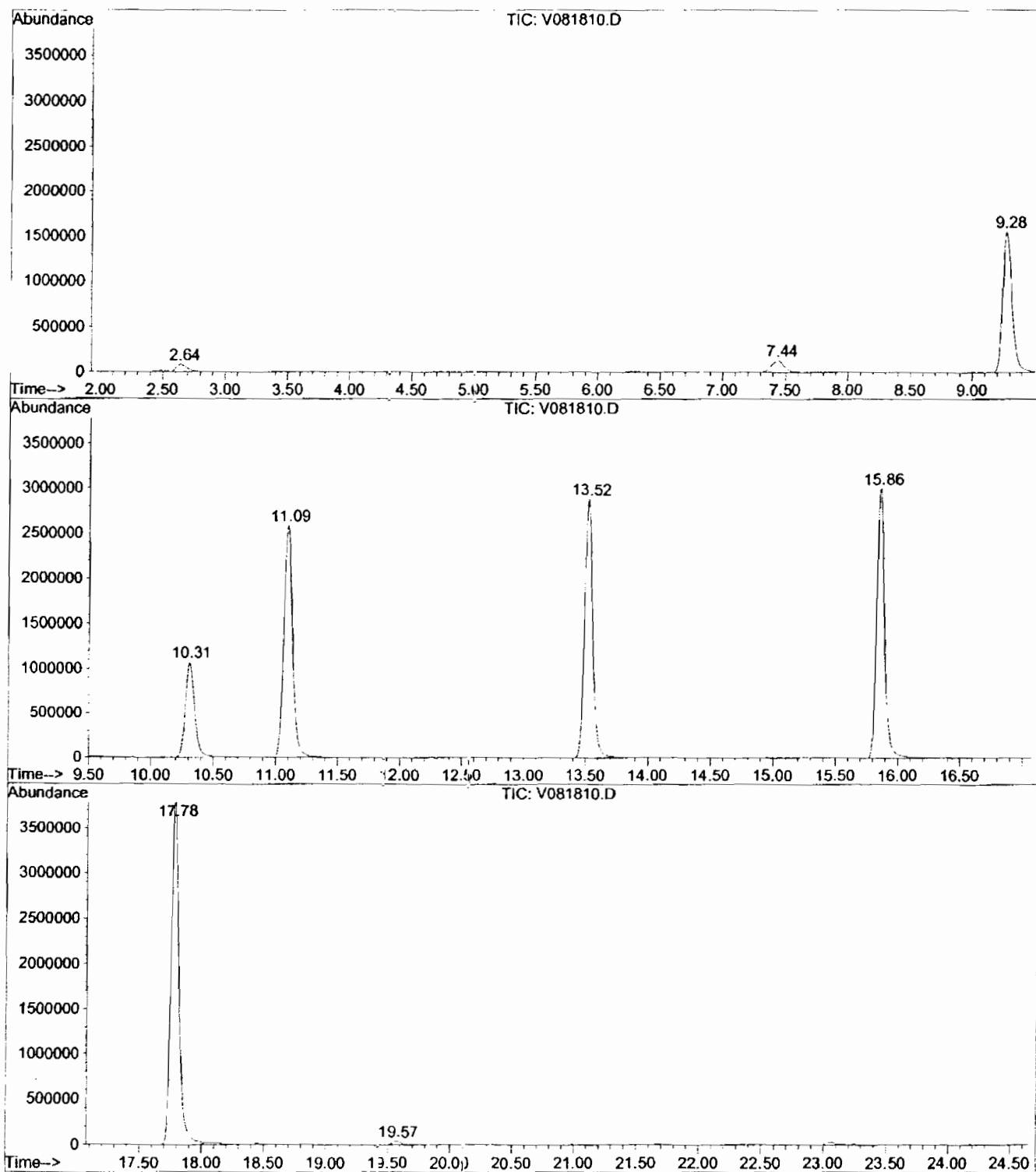
Quant Results File: 9510818.RES

Method : Z:\MSD\081805.B\9510818.M (RTE Integrator)
 Title : Method 91.1, 8240, and 624 waters.
 Last Update : Thu Aug 18 14:01:32 2005
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\081805.B\V081808.D



LSC Report - Integrated Chromatogram

File : Z:\MSD\081805.3\V081810.D
 Operator : DMD
 Acquired : 18 Aug 2005 5:10 pm using AcqMethod 9510818
 Instrument : MSD
 Sample Name: 0108,,VSBLK
 Misc Info : VSBLK010|018,,VBLK|
 Vial Number: 6
 Quant File : 9510818.RES (RTE Integrator)



Library Search Compound Report

Data File : Z:\MSD\081805.B\081810.D
Acq On : 18 Aug 2005 5:10 pm
Sample : 0107,,VSBLK
Misc : VSBLK0101018,,VBLK!
MS Integration Params: LSCINT.P

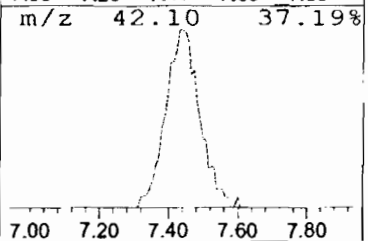
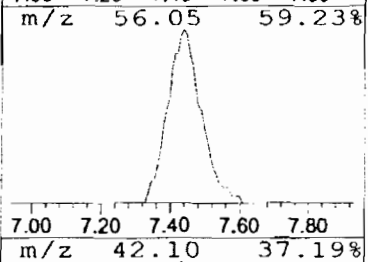
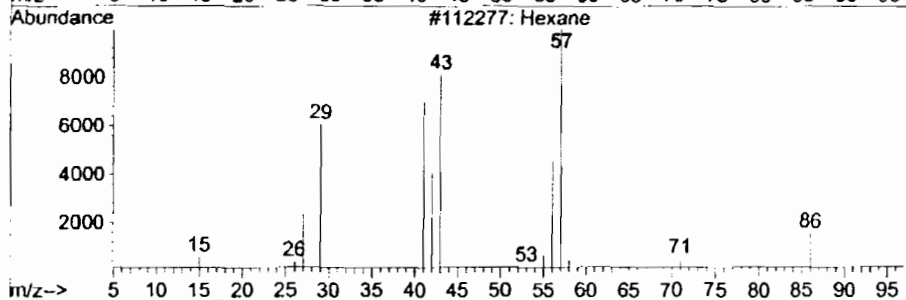
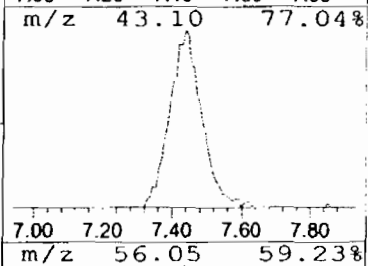
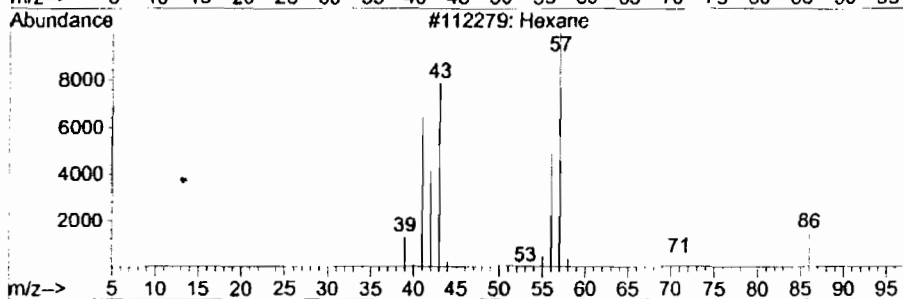
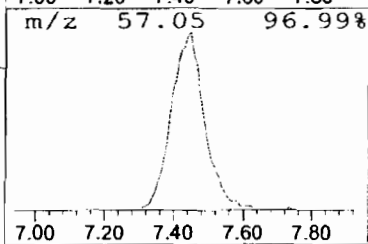
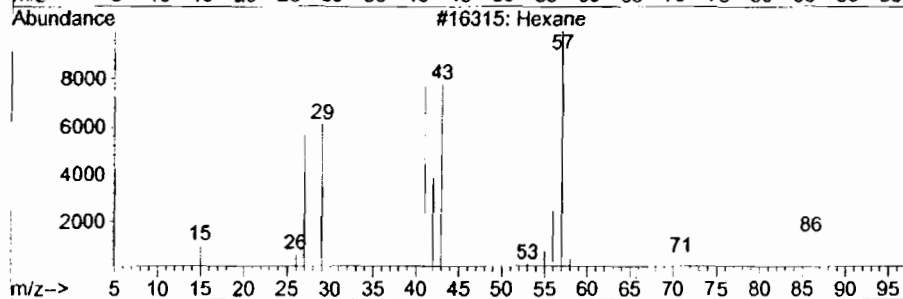
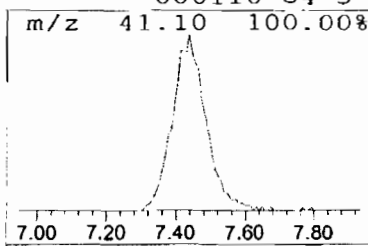
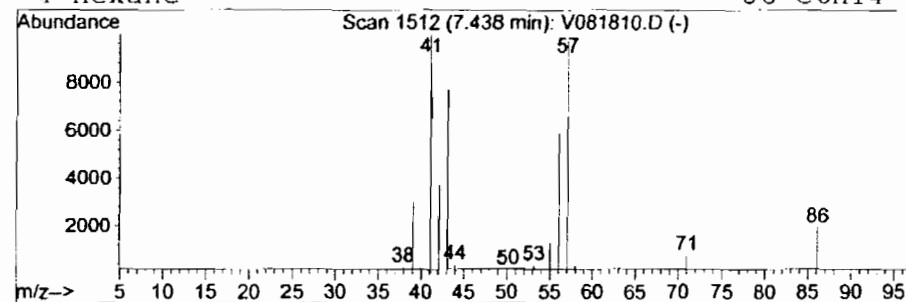
Vial: 6
Operator: DMD
Inst : MSD
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
Title : Method 91.1, 8240, and 624 waters.
Library : C:\DATABASE\nist98.1

Peak Number 1 Hexane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	5.47 ug/l	884284	Bromochloromethane	9.28

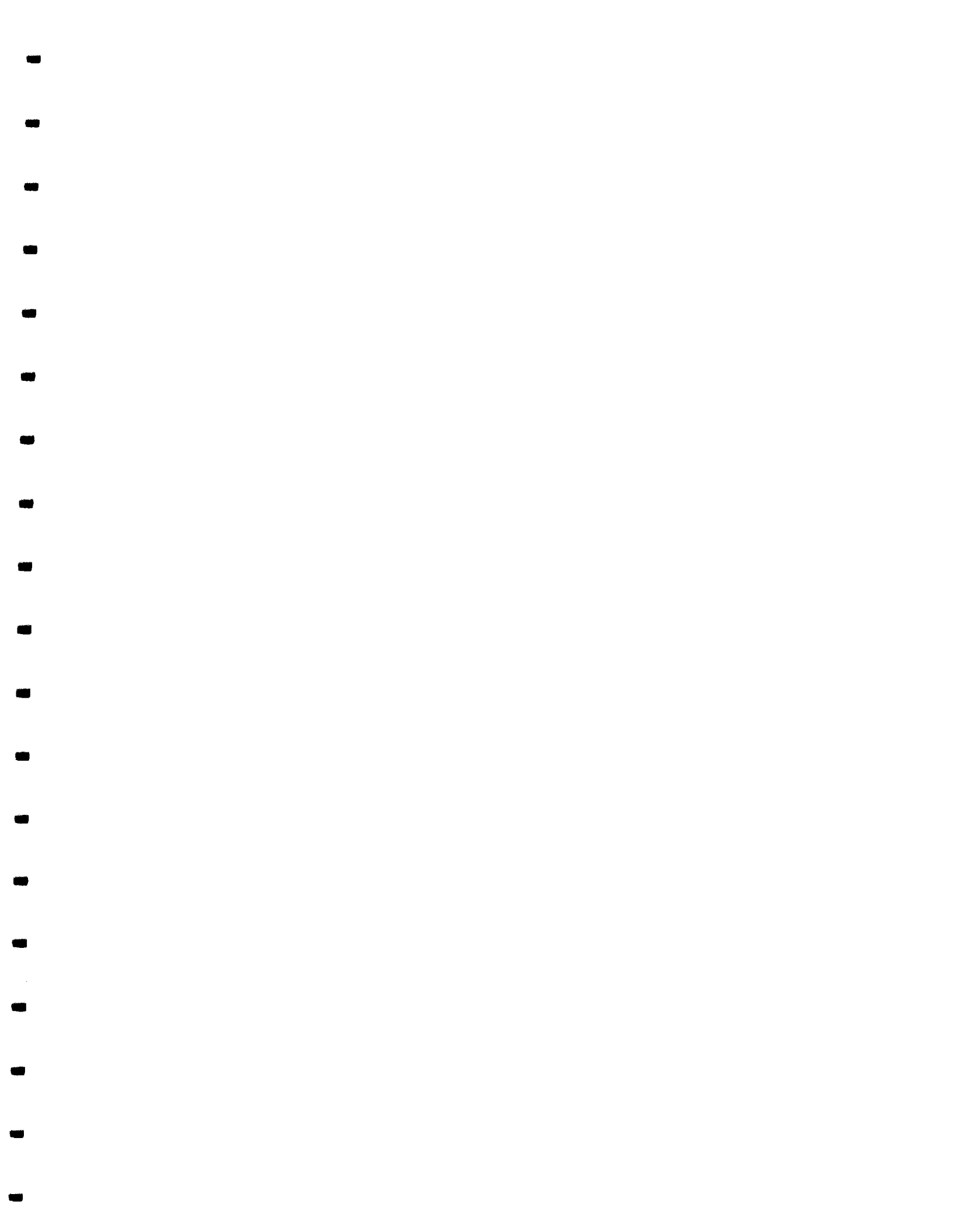
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane			86	C6H14	000110-54-3	43
2	Hexane			86	C6H14	000110-54-3	86
3	Hexane			86	C6H14	000110-54-3	78
4	Hexane			86	C6H14	000110-54-3	36



Tentatively Identified Compound (LSC) summary

Operator ID: DMD Date Acquired: 13 Aug 2005 5:10 pm
 Data File: Z:\MSD\081805.B\V081310.D
 Name: 0108,,VSBLK
 Misc: VSBLK0101018,,VBLK1
 Method: C:\HPCHEM\1\DATA\081805.B\9510818.M (RTE Integrator)
 Title: Method 91.1, 8240, and 624 waters.
 Library Searched: C:\DATABASE\nist98.l

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Hexane	7.44	5.5	ug/l	884284	ISTD01	9.28	8086690	50.0
V081810.D 9510818.M			Fri Aug 19 11:01:14 2005			RPT1		



SAMPLE DATA SUMMARY PACKAGE

MACTEC Engineering & Consulting, Inc.

Merrimack, NH

Project: 3640030018

STL Lab#: 251041

Matrix: Water

1 of 1

SAMPLE INFORMATION

Date: 09/16/2005

Job Number.: 251041

Customer.... MACTEC Engineering and Consulting, Inc.

Attn..... Lee Gustafson

Project Number.....: 20000604

Customer Project ID.....: 3640030018

Project Description.....: Sarney Farm

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
251041-1	Trip Blank	Trip Blank	08/10/2005	00:00	08/12/2005	09:45
251041-2	MW7D-D/FB	Water	08/10/2005	12:00	08/12/2005	09:45
251041-3	MW7D-D	Water	08/10/2005	12:50	08/12/2005	09:45
251041-4	MW7D-D/DP	Water	08/10/2005	12:50	08/12/2005	09:45
251041-5	MW7D-S	Water	08/10/2005	13:25	08/12/2005	09:45
251041-6	MW9D-1	Water	08/10/2005	13:52	08/12/2005	09:45
251041-7	MW9D-2	Water	08/10/2005	14:02	08/12/2005	09:45
251041-8	MW9D-3	Water	08/10/2005	14:15	08/12/2005	09:45
251041-9	MW10D-1	Water	08/10/2005	15:00	08/12/2005	09:45
251041-10	MW10D-2	Water	08/10/2005	15:10	08/12/2005	09:45
251041-11	MW10D-3	Water	08/10/2005	15:20	08/12/2005	09:45
251041-12	Sarney	Pot. Water	08/10/2005	15:53	08/12/2005	09:45
251041-13	Emerson	Pot. Water	08/10/2005	16:10	08/12/2005	09:45
251041-14	Hurlbert	Pot. Water	08/10/2005	16:30	08/12/2005	09:45
251041-15	Taylor	Pot. Water	08/10/2005	16:52	08/12/2005	09:45
251041-16	151 BHR	Pot. Water	08/10/2005	17:10	08/12/2005	09:45

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STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

LABORATORY CHRONICLE

Job Number: 251041

Date: 09/16/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc.

PROJECT: 3640030018

ATTN: Lee Gustafson

Lab ID: 251041-1	Client ID: Trip Blank	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
NYSASP 95.4	CLP Volatile Organic Analysis	1				
NYSASP 95.4	CLP Volatile Organic Analysis	1	96837			08/17/2005 0000
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-2	Client ID: MW7D-D/FB	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 1854
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-3	Client ID: MW7D-D	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 1924
NYSASP 95.1	CLP Volatile Organic Analysis	2	97292			08/19/2005 1442
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-4	Client ID: MW7D-D/DP	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 1953
NYSASP 95.1	CLP Volatile Organic Analysis	2	97292			08/19/2005 1518
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-5	Client ID: MW7D-S	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 2023
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-6	Client ID: MW9D-1	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 2053
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-7	Client ID: MW9D-2	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/19/2005 1554
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-8	Client ID: MW9D-3	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 2152
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-9	Client ID: MW10D-1	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 2222
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
Lab ID: 251041-10	Client ID: MW10D-2	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SWB46 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000

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STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

Job Number: 251041

LABORATORY CHRONICLE

Date: 09/16/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc.

PROJECT: 3640030018

ATTN: Lee Gustafson

Lab ID: 251041-10	Client ID: MW10D-2	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 2252
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
						DILUTION 1

Lab ID: 251041-11	Client ID: MW10D-3	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
SW846 5030(5mL)	5030 5 mL Purge Prep	1	96197			08/23/2005 0000
NYSASP 95.1	CLP Volatile Organic Analysis	1	97292			08/18/2005 2321
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
						DILUTION 1

Lab ID: 251041-12	Client ID: Sarney	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
NYSASP 95.4	CLP Volatile Organic Analysis	1				
NYSASP 95.4	CLP Volatile Organic Analysis	1	96837			08/17/2005 0000
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
						DILUTION 0000

Lab ID: 251041-13	Client ID: Emerson	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
NYSASP 95.4	CLP Volatile Organic Analysis	1				
NYSASP 95.4	CLP Volatile Organic Analysis	1	96837			08/17/2005 0000
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
						DILUTION 0000

Lab ID: 251041-14	Client ID: Hurlbert	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
NYSASP 95.4	CLP Volatile Organic Analysis	1				
NYSASP 95.4	CLP Volatile Organic Analysis	1	96837			08/17/2005 0000
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
						DILUTION 0000

Lab ID: 251041-15	Client ID: Taylor	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
NYSASP 95.4	CLP Volatile Organic Analysis	1				
NYSASP 95.4	CLP Volatile Organic Analysis	1	96837			08/18/2005 0000
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
						DILUTION 0000

Lab ID: 251041-16	Client ID: 151 BHR	Date Recvd: 08/12/2005	Sample Date: 08/10/2005			
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED
NYSASP 95.4	CLP Volatile Organic Analysis	1				
NYSASP 95.4	CLP Volatile Organic Analysis	1	96837			08/18/2005 0000
QA Services	Quality Assurance Services	1	96836			09/01/2005 0000
						DILUTION 0000

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315 Fullerton Avenue
Newburgh, NY 12550
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Fax (845) 562-0841

THE ANALYTICAL METHODS MAY UTILIZE ONE OR MORE OF THE FOLLOWING REFERENCES:

"Methods for Chemical Analysis of Water and Wastewater",
EPA-600/4-79-020, March 1983.

"Test Methods for Evaluating Solid Waste", USEPA-SW846, Third
Edition, September 1986 with all current revisions.

Federal Register, V.50 No.3, January 4, 1985.

Federal Register, V.49, No. 209, October 26, 1984.

"Methods for the Determination of Organic Compounds in Drinking Water
EPA/600/4-88/039, December 1988.

Volatile Organic Compounds in Water by Purge and Trap Capillary
Column Gas Chromatography With Photoionization and Electrolytic
Conductivity Detectors in Series, EMSL, Cincinnati, Ohio, 45268,
Revision 2.0 (1989).

EPA Method for the Determination of Gasoline Range Organics, Draft,
REV. 5, 2/5/92.

"New York State Department of Environmental Conservation Analytical
Services Protocol, Vol. 1, October 1995.

USEPA CLP SOW for Organics Analysis Low Concentration Water

USEPA CLP SOW for Organics Analysis Multi-Media, Multi-Concentration

CASE NARRATIVE

Client: MACTEC

Date: 09/15/05

STL Lab No.: 251041

Page 1 of 1

Volatile Organics

95.1

Sample Dilution

The following sample was diluted as indicated due to target compounds that exceed the linear calibration range:

MW7D-DL(251041-03DL): 10x

MW7D-D/DPDL(251041-04DL): 10x

Calibration

Please note that 1,1,2,2-tetrachloroethane in the initial calibration and in the continuing calibration standard analyzed on 08/19/05 does not meet the minimum response factor (RF) for all levels of the calibration. Bromoform does not meet the minimum RF in the first level of the initial calibration.

The percent difference of the following compounds in the continuing calibration standard analyzed on 08/18/05 is outside of the acceptable control limits.

As per method, the mid point standard was used as the continuing calibration standard since all initial calibration levels and samples were run within 12 hours.

95.4

VLCS

Please note that vinyl chloride was inadvertently omitted from the VLCS010 spiking solution.

Calibration

As per method, the mid point standard was used as the continuing calibration standard since all initial calibration levels and samples were run within 12 hours.

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D/FB
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:00
Sample Matrix.....: Water

Laboratory Sample ID: 251041-2
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmcd
	Bromomethane	10	U		10	ug/L	08/18/05	dmcd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmcd
	Chloroethane	10	U		10	ug/L	08/18/05	dmcd
	Methylene chloride	2.1	J		10	ug/L	08/18/05	dmcd
	Acetone	10	U		10	ug/L	08/18/05	dmcd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Chloroform	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloroethane	10	U		10	ug/L	08/18/05	dmcd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmcd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmcd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmcd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmcd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Benzene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Bromoform	10	U		10	ug/L	08/18/05	dmcd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmcd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmcd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmcd
	Toluene	10	U		10	ug/L	08/18/05	dmcd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmcd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmcd
	Styrene	10	U		10	ug/L	08/18/05	dmcd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmcd
	cis-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd

* In Description = Dry Wgt.

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Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-D/FB

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-002

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081813.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	22	JN

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FORM LVOA-TIC

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 63-378

M-NY049

STL Newburgh
315 Fallowfield Avenue
Newburgh, NY 12550
Tel (518) 562-0990
Fax (518) 562-0841

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW/D-D
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-3
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	1.5	J		10	ug/L	08/18/05	dmd
	Acetone	2.8	J	B	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	1.1	J		10	ug/L	08/18/05	dmd
	Chloroform	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	210	U	E	10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	1.9	J		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	7.0	J		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	32	U		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0564

EPA NY049

PA 88-378

M-NY049

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-D

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-003

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081814.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	20	JN

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FORM 1 VOA-TIC

3/90

NYS DOH 10142

NJ DEP 73015

CT DOH 15 PH-0554

EPA 816-040

PA 38-076

M-NY049

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-0
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-3
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	100	U		100	ug/L	08/19/05	dmd
	Bromomethane	100	U		100	ug/L	08/19/05	dmd
	Vinyl chloride	100	U		100	ug/L	08/19/05	dmd
	Chloroethane	100	U		100	ug/L	08/19/05	dmd
	Methylene chloride	100	U		100	ug/L	08/19/05	dmd
	Acetone	100	U		100	ug/L	08/19/05	dmd
	Carbon disulfide	100	U		100	ug/L	08/19/05	dmd
	1,1-Dichloroethene	100	U		100	ug/L	08/19/05	dmd
	1,1-Dichloroethane	100	U		100	ug/L	08/19/05	dmd
	Chloroform	100	U		100	ug/L	08/19/05	dmd
	1,2-Dichloroethane	290	U	D	100	ug/L	08/19/05	dmd
	2-Butanone (MEK)	100	U		100	ug/L	08/19/05	dmd
	1,1,1-Trichloroethane	100	U		100	ug/L	08/19/05	dmd
	Carbon tetrachloride	100	U		100	ug/L	08/19/05	dmd
	Bromodichloromethane	100	U		100	ug/L	08/19/05	dmd
	1,2-Dichloropropane	100	U		100	ug/L	08/19/05	dmd
	cis-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	dmd
	Trichloroethene	100	U		100	ug/L	08/19/05	dmd
	Dibromochloromethane	100	U		100	ug/L	08/19/05	dmd
	1,1,2-Trichloroethane	100	U		100	ug/L	08/19/05	dmd
	Benzene	10	J	JD	100	ug/L	08/19/05	dmd
	trans-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	dmd
	Bromoform	100	U		100	ug/L	08/19/05	dmd
	4-Methyl-2-pentanone (MIBK)	100	U		100	ug/L	08/19/05	dmd
	2-Hexanone	100	U		100	ug/L	08/19/05	dmd
	Tetrachloroethene	100	U		100	ug/L	08/19/05	dmd
	1,1,2,2-Tetrachloroethane	100	U		100	ug/L	08/19/05	dmd
	Toluene	100	U		100	ug/L	08/19/05	dmd
	Chlorobenzene	100	U		100	ug/L	08/19/05	dmd
	Ethylbenzene	100	U		100	ug/L	08/19/05	dmd
	Styrene	100	U		100	ug/L	08/19/05	dmd
	Xylenes (total)	100	U		100	ug/L	08/19/05	dmd
	cis-1,2-Dichloroethene	42	J	D	100	ug/L	08/19/05	dmd
	trans-1,2-Dichloroethene	100	U		100	ug/L	08/19/05	dmd

* In Description = Dry Wgt.

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CTDOHS PH-0554

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M-NY049

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACIEC Engineering and Consulting, Inc. PROJECT: 0640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D/DP
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-4
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	1.4	J		10	ug/L	08/18/05	dmd
	Acetone	2.2	J	B	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	1.2	J		10	ug/L	08/18/05	dmd
	Chloroform	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	210	U	E	10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	2.0	J		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	7.0	J		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	32	U		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

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M NY049

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-D/DP

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-004

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081815.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	19	JN

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FORM 1 VOL TIC
CTDOHS PH-0554

EPA NY049

FA 68-378

M-NY049

3/00

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Fax: (845) 562-0641

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACIEC Engineering and Consulting, Inc. PROJECT: 3540030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D/DP
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-4
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	100	U		100	ug/L	08/19/05	dmd
	Bromomethane	100	U		100	ug/L	08/19/05	dmd
	Vinyl chloride	100	U		100	ug/L	08/19/05	dmd
	Chloroethane	100	U		100	ug/L	08/19/05	dmd
	Methylene chloride	100	U		100	ug/L	08/19/05	dmd
	Acetone	100	U		100	ug/L	08/19/05	dmd
	Carbon disulfide	100	U		100	ug/L	08/19/05	dmd
	1,1-Dichloroethene	100	U		100	ug/L	08/19/05	dmd
	1,1-Dichloroethane	100	U		100	ug/L	08/19/05	dmd
	Chloroform	100	U		100	ug/L	08/19/05	dmd
	1,2-Dichloroethane	270	U	D	100	ug/L	08/19/05	dmd
	2-Butanone (MEK)	100	U		100	ug/L	08/19/05	dmd
	1,1,1-Trichloroethane	100	U		100	ug/L	08/19/05	dmd
	Carbon tetrachloride	100	U		100	ug/L	08/19/05	dmd
	Bromodichloromethane	100	U		100	ug/L	08/19/05	dmd
	1,2-Dichloropropane	100	U		100	ug/L	08/19/05	dmd
	cis-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	dmd
	Trichloroethene	100	U		100	ug/L	08/19/05	dmd
	Dibromochloromethane	100	U		100	ug/L	08/19/05	dmd
	1,1,2-Trichloroethane	100	U		100	ug/L	08/19/05	dmd
	Benzene	100	U		100	ug/L	08/19/05	dmd
	trans-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	dmd
	Bromoform	100	U		100	ug/L	08/19/05	dmd
	4-Methyl-2-pentanone (MIBK)	100	U		100	ug/L	08/19/05	dmd
	2-Hexanone	100	U		100	ug/L	08/19/05	dmd
	Tetrachloroethene	100	U		100	ug/L	08/19/05	dmd
	1,1,2,2-Tetrachloroethane	100	U		100	ug/L	08/19/05	dmd
	Toluene	100	U		100	ug/L	08/19/05	dmd
	Chlorobenzene	100	U		100	ug/L	08/19/05	dmd
	Ethylbenzene	100	U		100	ug/L	08/19/05	dmd
	Styrene	100	U		100	ug/L	08/19/05	dmd
	Xylenes (total)	100	U		100	ug/L	08/19/05	dmd
	cis-1,2-Dichloroethene	40	J	D	100	ug/L	08/19/05	dmd
	trans-1,2-Dichloroethene	100	U		100	ug/L	08/19/05	dmd

* In Description = Dry Wgt.

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CTDOHS PH-0554

EPA NY049

PA 68-378

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Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-S
Date Sampled.....: 08/10/2005
Time Sampled.....: 13:25
Sample Matrix.....: Water

Laboratory Sample ID: 251041-5
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmcd
	Bromomethane	10	U		10	ug/L	08/18/05	dmcd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmcd
	Chloroethane	10	U		10	ug/L	08/18/05	dmcd
	Methylene chloride	1.2	J		10	ug/L	08/18/05	dmcd
	Acetone	3.0	J	B	10	ug/L	08/18/05	dmcd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Chloroform	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloroethane	1.2	J		10	ug/L	08/18/05	dmcd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmcd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmcd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmcd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmcd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Benzene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Bromoform	10	U		10	ug/L	08/18/05	dmcd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmcd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmcd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmcd
	Toluene	10	U		10	ug/L	08/18/05	dmcd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmcd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmcd
	Styrene	10	U		10	ug/L	08/18/05	dmcd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmcd
	cis-1,2-Dichloroethene	3.9	J		10	ug/L	08/18/05	dmcd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

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M-NY049

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-S

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: 251041-005

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081816.D

Level: (low/med) LOW Date Received: 8/12/2005

% Moisture: not dec. _____ Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	16	JN

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FORM VOA-TIC

NYSDOH 10142

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3/01

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW9D-1
Date Sampled.....: 08/10/2005
Time Sampled.....: 13:52
Sample Matrix.....: Water

Laboratory Sample ID: 251041-6
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	1.8	J		10	ug/L	08/18/05	dmd
	Acetone	3.7	J	B	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmd
	Chloroform	1.8	J		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	93	U		10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	3.9	J		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	7.3	J		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW9D-1

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No:

SAS No:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-006

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081817.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.45	18	JN

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FORM 1 VOA-TIC

3/90

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Fax (845) 562-0941

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW90-2
Date Sampled.....: 08/10/2005
Time Sampled.....: 14:02
Sample Matrix.....: Water

Laboratory Sample ID: 251041-7
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10		U	10	ug/L	08/19/05	dmd
	Bromomethane	10		U	10	ug/L	08/19/05	dmd
	Vinyl chloride	10		U	10	ug/L	08/19/05	dmd
	Chloroethane	10		U	10	ug/L	08/19/05	dmd
	Methylene chloride	10		U	10	ug/L	08/19/05	dmd
	Acetone	10		U	10	ug/L	08/19/05	dmd
	Carbon disulfide	10		U	10	ug/L	08/19/05	dmd
	1,1-Dichloroethene	10		U	10	ug/L	08/19/05	dmd
	1,1-Dichloroethane	1.1		J	10	ug/L	08/19/05	dmd
	Chloroform	10		U	10	ug/L	08/19/05	dmd
	1,2-Dichloroethane	140		U	10	ug/L	08/19/05	dmd
	2-Butanone (MEK)	10		U	10	ug/L	08/19/05	dmd
	1,1,1-Trichloroethane	10		U	10	ug/L	08/19/05	dmd
	Carbon tetrachloride	10		U	10	ug/L	08/19/05	dmd
	Bromodichloromethane	10		U	10	ug/L	08/19/05	dmd
	1,2-Dichloropropane	10		U	10	ug/L	08/19/05	dmd
	cis-1,3-Dichloropropene	10		U	10	ug/L	08/19/05	dmd
	Trichloroethene	5.3		J	10	ug/L	08/19/05	dmd
	Dibromochloromethane	10		U	10	ug/L	08/19/05	dmd
	1,1,2-Trichloroethane	10		U	10	ug/L	08/19/05	dmd
	Benzene	10		U	10	ug/L	08/19/05	dmd
	trans-1,3-Dichloropropene	10		U	10	ug/L	08/19/05	dmd
	Bromoform	10		U	10	ug/L	08/19/05	dmd
	4-Methyl-2-pentanone (MIBK)	10		U	10	ug/L	08/19/05	dmd
	2-Hexanone	10		U	10	ug/L	08/19/05	dmd
	Tetrachloroethene	10		U	10	ug/L	08/19/05	dmd
	1,1,2,2-Tetrachloroethane	10		U	10	ug/L	08/19/05	dmd
	Toluene	10		U	10	ug/L	08/19/05	dmd
	Chlorobenzene	10		U	10	ug/L	08/19/05	dmd
	Ethylbenzene	10		U	10	ug/L	08/19/05	dmd
	Styrene	10		U	10	ug/L	08/19/05	dmd
	Xylenes (total)	10		U	10	ug/L	08/19/05	dmd
	cis-1,2-Dichloroethene	16		U	10	ug/L	08/19/05	dmd
	trans-1,2-Dichloroethene	10		U	10	ug/L	08/19/05	dmd

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW9D-2

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No. _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-007
Sample wt/vol: 5.0 (g/m) ML Lab File ID: V081907.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. _____ Date Analyzed: 8/19/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	7	JN

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NYSDOH 10142

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FORM LVOA-TIC
C100HS PH-0564

EPA NY049

PA 65-378

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Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW9D-3
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 14:15
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-8
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
MYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	10	U		10	ug/L	08/18/05	dmd
	Acetone	10	U		10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmd
	Chloroform	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	150			10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	4.9	J		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	10	U		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	15			10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW9D-3

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-008
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081819.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	9	JN

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FORM 170A-TIC

CTDOJIS PH-0564

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3/90

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW100-1
Date Sampled.....: 08/10/2005
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 251041-9
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	clmd
	Bromomethane	10	U		10	ug/L	08/18/05	clmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	clmd
	Chloroethane	10	U		10	ug/L	08/18/05	clmd
	Methylene chloride	10	U		10	ug/L	08/18/05	clmd
	Acetone	1.9	J	B	10	ug/L	08/18/05	clmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	clmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	clmd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	clmd
	Chloroform	10	U		10	ug/L	08/18/05	clmd
	1,2-Dichloroethane	40	U		10	ug/L	08/18/05	clmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	clmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	clmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	clmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	clmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	clmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	clmd
	Trichloroethene	10	U		10	ug/L	08/18/05	clmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	clmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	clmd
	Benzene	10	U		10	ug/L	08/18/05	clmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	clmd
	Bromoform	10	U		10	ug/L	08/18/05	clmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	clmd
	2-Hexanone	10	U		10	ug/L	08/18/05	clmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	clmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	clmd
	Toluene	10	U		10	ug/L	08/18/05	clmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	clmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	clmd
	Styrene	10	U		10	ug/L	08/18/05	clmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	clmd
	cis-1,2-Dichloroethene	1.4	J		10	ug/L	08/18/05	clmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	clmd

* In Description = Dry Wgt.

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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10D-1

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-009
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081820.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. _____ Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.45	9	JN

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FORM 1 VOA-TIC

3/90

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW100-2
Date Sampled.....: 08/10/2005
Time Sampled.....: 15:10
Sample Matrix.....: Water

Laboratory Sample ID: 251041-10
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmd
	Bromomethane	10	U		10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmd
	Chloroethane	10	U		10	ug/L	08/18/05	dmd
	Methylene chloride	10	U		10	ug/L	08/18/05	dmd
	Acetone	2.3	J	B	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmd
	Chloroform	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	55			10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmd
	Benzene	10	U		10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmd
	Bromoform	10	U		10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmd
	Toluene	10	U		10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmd
	Styrene	10	U		10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	1.2	J		10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmd

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10D-2

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-010
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081821.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. _____ Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(µg/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.43	9	JN

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FORM 1/VOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
316 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0390
Fax (845) 562-0341

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW100-3
Date Sampled.....: 08/10/2005
Time Sampled.....: 15:20
Sample Matrix.....: Water

Laboratory Sample ID: 251041-11
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dmcd
	Bromomethane	10	U		10	ug/L	08/18/05	dmcd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dmcd
	Chloroethane	10	U		10	ug/L	08/18/05	dmcd
	Methylene chloride	10	U		10	ug/L	08/18/05	dmcd
	Acetone	10	U		10	ug/L	08/18/05	dmcd
	Carbon disulfide	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1-Dichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Chloroform	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloroethane	5.3	J		10	ug/L	08/18/05	dmcd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dmcd
	1,1,1-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dmcd
	Bromodichloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dmcd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Trichloroethene	10	U		10	ug/L	08/18/05	dmcd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dmcd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dmcd
	Benzene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dmcd
	Bromoform	10	U		10	ug/L	08/18/05	dmcd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dmcd
	2-Hexanone	10	U		10	ug/L	08/18/05	dmcd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dmcd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dmcd
	Toluene	10	U		10	ug/L	08/18/05	dmcd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dmcd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dmcd
	Styrene	10	U		10	ug/L	08/18/05	dmcd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dmcd
	cis-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dmcd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10D-3

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-011
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081822.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. _____ Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	9	JN

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NYSDOH 10142

NJDEP 73015

FORM I-VOA-TIC

CTDHHS PH-0564

EPA NY049

PA 68-378

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Trip Blank
Date Sampled.....: 08/10/2005
Time Sampled.....: 00:00
Sample Matrix.....: Trip Blank

Laboratory Sample ID: 251041-1
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Methylene chloride	1.5	J		2.0	ug/L	08/17/05	dmcd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dmcd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dmcd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dmcd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dmcd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dmcd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dmcd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dmcd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dmcd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dmcd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dmcd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-001

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081717.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/17/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.6867	JN

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FORM 170A-TIC

3/90

NYS DOH 10142

NJ DEP 73016

CT DOH PH-0564

EPA NY049

PA 68-378

M-NY-149

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Sarney
Date Sampled.....: 08/10/2005
Time Sampled.....: 15:53
Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-12
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Methylene chloride	0.59	J		2.0	ug/L	08/17/05	dmcd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dmcd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dmcd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dmcd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dmcd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dmcd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dmcd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dmcd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dmcd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dmcd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dmcd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 88-378

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SARNEY

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-012
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081718.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. Date Analyzed: 8/17/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.60	2.7533	JN

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FORM 1/VOA TIC

NYS DOH 10142

NJ DEP 73015

CTDCHS PH-0554

EPA NY049

PA 66-378

M-NY049

3/90

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Newburgh, NY 12550
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Fax (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Emerson
Date Sampled.....: 08/10/2005
Time Sampled.....: 16:10
Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-13
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Methylene chloride	0.64	J		2.0	ug/L	08/17/05	dmcd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dmcd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dmcd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dmcd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dmcd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dmcd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dmcd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dmcd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dmcd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dmcd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dmcd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dmcd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dmcd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dmcd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

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M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMERSON

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-013

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081719.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/17/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.4355	JN

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FORM 170A-TIC

3/00

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

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Fax: (845) 562-0841

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Hurlbert
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 16:30
 Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-14
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	clmd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Methylene chloride	0.65	J		2.0	ug/L	08/17/05	clmd
	Acetone	5.0	U		5.0	ug/L	08/17/05	clmd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	clmd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	clmd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	clmd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	clmd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	clmd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	clmd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Benzene	1.0	U		1.0	ug/L	08/17/05	clmd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	clmd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	clmd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	clmd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	clmd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	clmd
	Toluene	1.0	U		1.0	ug/L	08/17/05	clmd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	Styrene	1.0	U		1.0	ug/L	08/17/05	clmd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	clmd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/17/05	clmd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	clmd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	clmd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	clmd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	clmd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	clmd

* In Description = Dry Wgt.

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

HURLBERT

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-014
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081720.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. _____ Date Analyzed: 8/17/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.3457	JN

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Taylor
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 16:52
 Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-15
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/18/05	dmd
	Bromomethane	1.0	U		1.0	ug/L	08/18/05	dmd
	Vinyl chloride	1.0	U		1.0	ug/L	08/18/05	dmd
	Chloroethane	1.0	U		1.0	ug/L	08/18/05	dmd
	Methylene chloride	0.59	J		2.0	ug/L	08/18/05	dmd
	Acetone	5.0	U		5.0	ug/L	08/18/05	dmd
	Carbon disulfide	1.0	U		1.0	ug/L	08/18/05	dmd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	dmd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/18/05	dmd
	Chloroform	1.0	U		1.0	ug/L	08/18/05	dmd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/18/05	dmd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/18/05	dmd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/18/05	dmd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/18/05	dmd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/18/05	dmd
	Trichloroethene	1.0	U		1.0	ug/L	08/18/05	dmd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/18/05	dmd
	Benzene	1.0	U		1.0	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/18/05	dmd
	Bromoform	1.0	U		1.0	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/18/05	dmd
	2-Hexanone	5.0	U		5.0	ug/L	08/18/05	dmd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/18/05	dmd
	Toluene	1.0	U		1.0	ug/L	08/18/05	dmd
	Chlorobenzene	1.0	U		1.0	ug/L	08/18/05	dmd
	Ethylbenzene	1.0	U		1.0	ug/L	08/18/05	dmd
	Styrene	1.0	U		1.0	ug/L	08/18/05	dmd
	o-Xylene	1.0	U		1.0	ug/L	08/18/05	dmd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	dmd
	Bromochloromethane	1.0	U		1.0	ug/L	08/18/05	dmd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/18/05	dmd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	dmd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	dmd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	dmd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/18/05	dmd
	Vinyl acetate	1.0	U		1.0	ug/L	08/18/05	dmd

* In Description = Dry Wgt.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TAYLOR

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-015

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081721.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(µg/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.2811	JN

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LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: 151 BHR
Date Sampled.....: 08/10/2005
Time Sampled.....: 17:10
Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-16
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	Bromomethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	Vinyl chloride	1.0	U		1.0	ug/L	08/18/05	dmcd
	Chloroethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	Methylene chloride	0.61	J		2.0	ug/L	08/18/05	dmcd
	Acetone	5.0	U		5.0	ug/L	08/18/05	dmcd
	Carbon disulfide	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	Chloroform	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/18/05	dmcd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/18/05	dmcd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/18/05	dmcd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/18/05	dmcd
	Trichloroethene	1.0	U		1.0	ug/L	08/18/05	dmcd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	Benzene	1.0	U		1.0	ug/L	08/18/05	dmcd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/18/05	dmcd
	Bromoform	1.0	U		1.0	ug/L	08/18/05	dmcd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/18/05	dmcd
	2-Hexanone	5.0	U		5.0	ug/L	08/18/05	dmcd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	Toluene	1.0	U		1.0	ug/L	08/18/05	dmcd
	Chlorobenzene	1.0	U		1.0	ug/L	08/18/05	dmcd
	Ethylbenzene	1.0	U		1.0	ug/L	08/18/05	dmcd
	Styrene	1.0	U		1.0	ug/L	08/18/05	dmcd
	o-Xylene	1.0	U		1.0	ug/L	08/18/05	dmcd
	m&p-Xylenes	1.0	U		1.0	ug/L	08/18/05	dmcd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	dmcd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/18/05	dmcd
	Bromochloromethane	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/18/05	dmcd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/18/05	dmcd
	Vinyl acetate	1.0	U		1.0	ug/L	08/18/05	dmcd

* In Description = Dry Wgt.

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

151 BHR

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-016

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081722.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.60	2.293	JN

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WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBK018	94	100	99	0
02	VSBLK010	96	102	99	0
03	VBSPK018	100	101	101	0
04	VLCS018	97	100	101	0
05	MW7D-D/FB	98	100	100	0
06	MW7D-D	94	100	99	0
07	MW7D-D/DP	94	101	100	0
08	MW7D-S	95	100	100	0
09	MW9D-1	95	99	99	0
10	MW9D-3	93	100	100	0
11	MW10D-1	100	99	99	0
12	MW10D-2	102	98	98	0
13	MW10D-3	98	100	99	0
14	MW7D-DMS	97	100	102	0
15	MW7D-DMSD	98	100	102	0
16	VBK019	94	94	94	0
17	VBSPK019	101	95	96	0
18	MW7D-DDL	96	94	95	0
19	MW7D-D/DPDL	97	94	100	0
20	MW9D-2	92	95	101	0

QC LIMITS

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

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

	EPA SAMPLE NO.	SMC1 (BFB) #	TOT OUT
01	VBLK017	97	0
02	VSBK010	102	0
03	VBSPK017	101	0
04	VLCS010	101	0
05	TRIP BLANK	99	0
06	SARNEY	99	0
07	EMERSON	102	0
08	HURLBERT	104	0
09	TAYLOR	103	0
10	151 BHR	105	0
11	151 BHRMS	111	0
12	151 BHRMSD	107	0

QC LIMITS

SMC1 (BFB) = Bromofluorobenzene

(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

page 1 of 1

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FORM II VOA-1

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3BS
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix Spike - EPA Sample No. VBSPK018

COMPOUND	SPIKE ADDED (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	49	98	61 - 145
Trichloroethene	50	47	94	71 - 120
Benzene	50	48	96	76 - 127
Toluene	50	47	94	76 - 125
Chlorobenzene	50	46	92	75 - 130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

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EPA NY049

PA 66-378

M NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (845) 562-0830
Fax: (845) 562-0841

3BS
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix Spike - EPA Sample No. VBSPK019

COMPOUND	SPIKE ADDED (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	56	112	61 - 145
Trichloroethene	50	55	110	71 - 120
Benzene	50	55	110	76 - 127
Toluene	50	53	106	76 - 125
Chlorobenzene	50	56	112	75 - 130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

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NYSDOH 10142

NJDEP 73015

FORM NY049-BS

EPA NY049

PA EN 378

M-NY049

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3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix Spike - EPA Sample No MW7D-D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0	45	90	61 - 145
Trichloroethene	50	1.9	46	88	71 - 120
Benzene	50	7.0	50	86	76 - 127
Toluene	50	0	44	88	76 - 125
Chlorobenzene	50	0	43	86	75 - 130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	50	48	96	6	22	61 - 145
Trichloroethene	50	48	92	4	24	71 - 120
Benzene	50	53	92	7	21	76 - 127
Toluene	50	46	92	4	21	76 - 125
Chlorobenzene	50	46	92	7	21	75 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-N 042

STL Newburgh
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FORM JLV OA-1

3BS
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix Spike - EPA Sample No. VBSPK017

COMPOUND	SPIKE ADDED (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	5.3	106	60 - 140
1,2-Dichloroethane	5.0	5.2	104	60 - 140
Carbon Tetrachloride	5.0	5.0	100	60 - 140
1,2-Dichloropropane	5.0	5.2	104	60 - 140
cis-1,3-Dichloropropene	5.0	5.3	106	60 - 140
Trichloroethene	5.0	5.1	102	60 - 140
Benzene	5.0	5.1	102	60 - 140
1,1,2-Trichloroethane	5.0	5.2	104	60 - 140
Tetrachloroethene	5.0	5.0	100	60 - 140
1,2-Dibromoethane	5.0	5.1	102	60 - 140
Bromoform	5.0	5.3	106	60 - 140
1,4-Dichlorobenzene	5.0	5.2	104	60 - 140

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS:

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NYSDOH 10142

NJDEP 73015

FORM III VOA BS
CTDOHS PH-0564

EPA NY049

PA 66-378

M-NY049

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3BS
WATER VOLATILE BLANK SPIKE RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix Spike - EPA Sample No. VLCS010

COMPOUND	SPIKE ADDED (ug/L)	BS CONCENTRATION (ug/L)	BS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0	0 *	60 - 140
1,2-Dichloroethane	5.0	6.6	132	60 - 140
Carbon Tetrachloride	5.0	6.1	122	60 - 140
1,2-Dichloropropane	5.0	6.6	132	60 - 140
cis-1,3-Dichloropropene	5.0	6.3	126	60 - 140
Trichloroethene	5.0	6.2	124	60 - 140
Benzene	5.0	6.4	128	60 - 140
1,1,2-Trichloroethane	5.0	6.6	132	60 - 140
Tetrachloroethene	5.0	6.4	128	60 - 140
1,2-Dibromoethane	5.0	6.5	130	60 - 140
Bromoform	5.0	6.4	128	60 - 140
1,4-Dichlorobenzene	5.0	6.3	126	60 - 140

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 12 outside limits

COMMENTS: _____

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TRENT** **STL**

FORM III VOA-BS

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0664

EPA NY049

PA 68-378

M-NY049

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WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix Spike - EPA Sample No 151 BHR

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0	4.8	96	60 - 140
1,2-Dichloroethane	5.0	0	5.8	116	60 - 140
Carbon Tetrachloride	5.0	0	4.7	94	60 - 140
1,2-Dichloropropane	5.0	0	5.3	106	60 - 140
cis-1,3-Dichloropropene	5.0	0	5.5	110	60 - 140
Trichloroethene	5.0	0	4.8	96	60 - 140
Benzene	5.0	0	5.0	100	60 - 140
1,1,2-Trichloroethane	5.0	0	5.5	110	60 - 140
Tetrachloroethene	5.0	0	4.5	90	60 - 140
1,2-Dibromoethane	5.0	0	5.5	110	60 - 140
Bromoform	5.0	0	5.8	116	60 - 140
1,4-Dichlorobenzene	5.0	0	5.1	102	60 - 140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Vinyl Chloride	5.0	4.7	94	2	25	60 - 140
1,2-Dichloroethane	5.0	5.8	116	0	25	60 - 140
Carbon Tetrachloride	5.0	4.6	92	2	25	60 - 140
1,2-Dichloropropane	5.0	5.3	106	0	25	60 - 140
cis-1,3-Dichloropropene	5.0	5.5	110	0	25	60 - 140
Trichloroethene	5.0	4.7	94	2	25	60 - 140
Benzene	5.0	4.9	98	2	25	60 - 140
1,1,2-Trichloroethane	5.0	5.6	112	2	25	60 - 140
Tetrachloroethene	5.0	4.5	90	0	25	60 - 140
1,2-Dibromoethane	5.0	5.6	112	2	25	60 - 140
Bromoform	5.0	6.0	120	3	25	60 - 140
1,4-Dichlorobenzene	5.0	5.2	104	2	25	60 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS: _____

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NYSDOH 10142

NJDEP 73015

FORM III VOA-1
CTD OHS PH-0554

EPA NY049

PA 68-378

M-NY049

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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK018

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID: V081809.D Lab Sample ID: VBLK018
 Date Analyzed: 8/18/2005 Time Analyzed: 16:25
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSD

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSBLK010	VSBLK010	V081810.D	17:10
02	VBSPK018	VBSPK018	V081811.D	17:39
03	VLCS018	018VLCS	V081812.D	18:13
04	MW7D-D/FB	251041-002	V081813.D	18:54
05	MW7D-D	251041-003	V081814.D	19:24
06	MW7D-D/DP	251041-004	V081815.D	19:53
07	MW7D-S	251041-005	V081816.D	20:23
08	MW9D-1	251041-006	V081817.D	20:53
09	MW9D-3	251041-008	V081819.D	21:52
10	MW10D-1	251041-009	V081820.D	22:22
11	MW10D-2	251041-010	V081821.D	22:52
12	MW10D-3	251041-011	V081822.D	23:21
13	MW7D-DMS	251041-003MS	V081823.D	23:51
14	MW7D-DMSD	251041-003MSD	V081824.D	0:21

COMMENTS

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3 of 1

FORM IV VOA

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 66-378

M-NY049

3/90

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VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK018

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: VBLK018

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081809.D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane		U	10
74-83-9	Bromomethane		U	10
75-01-4	Vinyl Chloride		U	10
75-00-3	Chloroethane		U	10
75-09-2	Methylene Chloride		U	10
67-64-1	Acetone	5.3	J	10
75-15-0	Carbon Disulfide		U	10
75-35-4	1,1-Dichloroethene		U	10
75-34-4	1,1-Dichloroethane		U	10
156-60-5	trans-1,2-Dichloroethene		U	10
540-59-0	cis-1,2-Dichloroethane		U	10
67-66-3	Chloroform		U	10
107-06-2	1,2-Dichloroethane		U	10
78-93-3	2-Butanone	3.6	J	10
71-55-6	1,1,1-Trichloroethane		U	10
56-23-5	Carbon Tetrachloride		U	10
75-27-4	Bromodichloromethane		U	10
78-87-5	1,2-Dichloropropane		U	10
10061-01-5	cis-1,3-Dichloropropene		U	10
79-01-6	Trichloroethene		U	10
71-43-2	Benzene		U	10
124-48-1	Dibromochloromethane		U	10
10061-02-6	trans-1,3-Dichloropropene		U	10
79-00-5	1,1,2-Trichloroethane		U	10
75-25-2	Bromoform		U	10
108-10-1	4-Methyl-2-Pentanone	1.9	J	10
591-78-6	2-Hexanone		U	10
127-18-4	Tetrachloroethene		U	10
79-34-5	1,1,2,2-Tetrachloroethane		U	10
108-88-3	Toluene		U	10
108-90-7	Chlorobenzene		U	10
100-41-4	Ethylbenzene		U	10
100-42-5	Styrene		U	10
1330-20-7	Xylenes, total		U	10

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NYSDOH 10142

NJDEP 73015

FORM 1/VOA

CTDOHS PH-0564

EPA NY049

PA 68-378

3/90
M-NY049STL Newburgh
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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK018

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: VBLK018

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081809.D

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0

(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

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FORM 1 VOA-TIC

3/90

NYS DOH 10142

NJ DEP 73015

CT DOHS PH-0554

EPA NY049

PA 68-378

M-NY049

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Newburgh, NY 12550
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4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK019

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Lab File ID: V081903.D Lab Sample ID: VBLK019
Date Analyzed: 8/19/2005 Time Analyzed: 12:02
GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N
Instrument ID: MSD

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBSPK019	VBSPK019	V081904.D	13:08
02	MW7D-DDL	251041-003DL	V081905.D	14:42
03	MW7D-D/DPDL	251041-004DL	V081906.D	15:18
04	MW9D-2	251041-007	V081907.D	15:54

COMMENTS

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Page 1 of 1

FORM IV VOL

NYS DOH 10142

NJ DEP 73015

CT DOHS PH-0554

EPA NY049

PA 60-370

M-NY049

3/50

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VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK019

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: VBLK019

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081903.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 8/19/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane		U	10
74-83-9	Bromomethane		U	10
75-01-4	Vinyl Chloride		U	10
75-00-3	Chloroethane		U	10
75-09-2	Methylene Chloride		U	10
67-64-1	Acetone	3.1	J	10
75-15-0	Carbon Disulfide		U	10
75-35-4	1,1-Dichloroethene		U	10
75-34-4	1,1-Dichloroethane		U	10
156-60-5	trans-1,2-Dichloroethene		U	10
540-59-0	cis-1,2-Dichloroethene		U	10
67-66-3	Chloroform		U	10
107-06-2	1,2-Dichloroethane		U	10
78-93-3	2-Butanone		U	10
71-55-6	1,1,1-Trichloroethane		U	10
56-23-5	Carbon Tetrachloride		U	10
75-27-4	Bromodichloromethane		U	10
78-87-5	1,2-Dichloropropane		U	10
10061-01-5	cis-1,3-Dichloropropene		U	10
79-01-6	Trichloroethene		U	10
71-43-2	Benzene		U	10
124-48-1	Dibromochloromethane		U	10
10061-02-6	trans-1,3-Dichloropropene		U	10
79-00-5	1,1,2-Trichloroethane		U	10
75-25-2	Bromoform		U	10
108-10-1	4-Methyl-2-Pentanone		U	10
591-78-6	2-Hexanone		U	10
127-18-4	Tetrachloroethene		U	10
79-34-5	1,1,2,2-Tetrachloroethane		U	10
108-88-3	Toluene		U	10
108-90-7	Chlorobenzene		U	10
100-41-4	Ethylbenzene		U	10
100-42-5	Styrene		U	10
1330-20-7	Xylenes, total		U	10

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NYSDOH 10142

NJDEP 73015

FORM 1 VOA

CTDOHS PH-0554

EPA NY049

PA 68-378

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK019

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: VBLK019

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081903.D

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 8/19/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(μ g/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.43	7	JN

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FORM J VOA-TIC

3/90

NYS DOH 10142

NJ DEP 73015

CTDQHS PH-0554

EPA NY049

PA 68-378

MA NY049

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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK017

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID: V081713.D Lab Sample ID: VBK017
 Date Analyzed: 8/17/2005 Time Analyzed: 19:42
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSD

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSBLK010	VSBLK010	V081714.D	20:16
02	VBSPK017	VBSPK017	V081715.D	20:48
03	VLCS010	017VLCS	V081716.D	21:20
04	TRIP BLANK	251041-001	V081717.D	21:53
05	SARNEY	251041-012	V081718.D	22:25
06	EMERSON	251041-013	V081719.D	22:57
07	HURLBERT	251041-014	V081720.D	23:29
08	TAYLOR	251041-015	V081721.D	0:01
09	151 BHR	251041-016	V081722.D	0:34
10	151 BHRMS	251041-016MS	V081723.D	1:06
11	151 BHRMSD	251041-016MSD	V081724.D	1:39

COMMENTS

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Page 1 of 1

FORM IV VOA

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0564

EPA NY049

PA 68-378

M-NY049

3/90

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK017

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: VBLK017
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081713.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 8/17/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
74-87-3	Chloromethane		U	1.0
74-83-9	Bromomethane		U	1.0
75-01-4	Vinyl Chloride		U	1.0
75-00-3	Chloroethane		U	1.0
75-09-2	Methylene Chloride		U	2.0
67-64-1	Acetone		U	5.0
75-15-0	Carbon Disulfide		U	1.0
75-35-4	1,1-Dichloroethene		U	1.0
75-34-4	1,1-Dichloroethane		U	1.0
156-60-5	trans-1,2-Dichloroethene		U	1.0
540-59-0	cis-1,2-Dichloroethene		U	1.0
67-66-3	Chloroform		U	1.0
107-06-2	1,2-Dichloroethane		U	1.0
78-93-3	2-Butanone		U	5.0
75-27-4	Bromochloromethane		U	1.0
108-05-4	Vinyl Acetate		U	1.0
71-55-6	1,1,1-Trichloroethane		U	1.0
56-23-5	Carbon Tetrachloride		U	1.0
75-27-4	Bromodichloromethane		U	1.0
78-87-5	1,2-Dichloropropane		U	1.0
10061-01-5	cis-1,3-Dichloropropene		U	1.0
79-01-6	Trichloroethene		U	1.0
71-43-2	Benzene		U	1.0
124-48-1	Dibromochloromethane		U	1.0
10061-02-6	trans-1,3-Dichloropropene		U	1.0
79-00-5	1,1,2-Trichloroethane		U	1.0
108-10-1	4-Methyl-2-Pentanone		U	5.0
591-78-6	2-Hexanone		U	5.0
127-18-4	Tetrachloroethene		U	1.0
79-34-5	1,1,2,2-Tetrachloroethane		U	1.0
108-88-3	Toluene		U	1.0
106-93-4	1,2-Dibromoethane		U	1.0
108-90-7	Chlorobenzene		U	1.0
100-41-4	Ethylbenzene		U	1.0
1330-20-7	m,p-Xylene		U	1.0
1330-20-7	o-Xylene		U	1.0
100-42-5	Styrene		U	1.0
75-25-2	Bromoform		U	1.0
541-73-1	1,3-Dichlorobenzene		U	1.0

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SEVERN
 TRENT **STL**

NYSDOH 10142

NJDEP 73015

FORM 1 VOA

CTD/HS PH-0554

EPA NY049

PA 68-378

3/00

M-NY049

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK017

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: VBLK017

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081713.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 8/17/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Units: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RESULT	Q	RL
106-46-7	1,4-Dichlorobenzene		U	1.0
95-50-1	1,2-Dichlorobenzene		U	1.0
96-12-8	1,2-Dibromo-3-Chloropropane		U	1.0

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SEVERN
TRINT STL

FORM IVOA

NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY040

PA 68-378

M-NY049

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK017

Lab Name: STL Newburgh

Contract: _____

Lab Code: 10142

Case No.: _____

SAS No.: _____

SDG No.: 251041Matrix: (soil/water) WATERLab Sample ID: VBLK017Sample wt/vol: 5.0 (g/ml) MLLab File ID: V081713.DLevel: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 8/17/2005GC Column: DB-624 ID: 0.53 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.0471	JN

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SEVERN
TRENT

STL

FORM VOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTD/HSPH-0564

EPA NY049

PA 88-378

M-NY049

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID (Standard): V081808.D Date Analyzed: 8/18/2005
 Instrument ID: MSD Time Analyzed: 15:36
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1838069	9.28	4848973	11.10	3898336	15.87
UPPER LIMIT	3676138	9.78	9697946	11.60	7796672	16.37
LOWER LIMIT	919035	8.78	2424487	10.60	1949168	15.37
EPA SAMPLE NO.						
01 VBLK018	1742037	9.27	4501582	11.09	3641062	15.86
02 VSBLK010	1876759	9.28	4971433	11.09	3997149	15.85
03 VBSPK018	1763231	9.28	4565387	11.09	3888235	15.86
04 VLCS018	1767875	9.28	4494671	11.10	3792125	15.86
05 MW7D-D/FB	1765642	9.28	4580544	11.09	3691992	15.85
06 MW7D-D	1849641	9.28	4722739	11.09	3961683	15.86
07 MW7D-D/DP	1860051	9.28	4732097	11.10	3973301	15.86
08 MW7D-S	1835170	9.27	4635690	11.10	3934639	15.86
09 MW9D-1	1834678	9.28	4669516	11.10	3944421	15.86
10 MW9D-3	1901543	9.28	4819848	11.09	4067914	15.86
11 MW10D-1	1932207	9.28	4862645	11.09	4107352	15.86
12 MW10D-2	1818152	9.27	4612294	11.09	3895582	15.86
13 MW10D-3	1899036	9.27	4836426	11.09	4041326	15.86
14 MW7D-DMS	1901390	9.28	4935567	11.09	4181318	15.86
15 MW7D-DMSD	1902599	9.28	4859622	11.09	4123153	15.85

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = 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 to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits are part of Severn Trent Laboratories, Inc.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID (Standard): V081902.D Date Analyzed: 8/19/2005
 Instrument ID: MSD Time Analyzed: 10:14
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	1812736	9.28	4851340	11.10	3973174	15.86
UPPER LIMIT	3625472	9.78	9702680	11.60	7946348	16.36
LOWER LIMIT	906368	8.78	2425670	10.60	1986587	15.36
EPA SAMPLE NO.						
01 VBLK019	1654145	9.27	4418488	11.10	3769762	15.87
02 VBSPK019	1686810	9.28	4576594	11.10	3889943	15.86
03 MW7D-DDL	1694523	9.28	4405004	11.10	3791285	15.86
04 MW7D-D/DPDL	1824598	9.27	4660957	11.09	3829209	15.86
05 MW9D-2	1872532	9.29	4665037	11.11	3921755	15.87

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = 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 to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits, part of Severn Trent Laboratories, Inc.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Lab File ID (Standard): V081709.D Date Analyzed: 8/17/2005
 Instrument ID: MSD Time Analyzed: 17:17
 GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(DFB) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
12 HOUR STD	2281962	11.68	1564506	16.97	834943	21.22
UPPER LIMIT	3194747	12.01	2190308	17.30	1168920	21.55
LOWER LIMIT	1369177	11.35	938704	16.64	500966	20.89
EPA SAMPLE NO.						
01 VBLK017	2249122	11.68	1524414	16.95	770208	21.21
02 VSBLK010	2171308	11.68	1479443	16.95	764240	21.21
03 VBSPK017	2253670	11.68	1546222	16.97	835916	21.21
04 VLCS010	2185791	11.68	1512181	16.95	782810	21.22
05 TRIP BLANK	2034380	11.68	1439167	16.95	735904	21.21
06 SARNEY	2208214	11.68	1536785	16.95	794829	21.22
07 EMERSON	2170135	11.68	1556478	16.95	816697	21.22
08 HURLBERT	2166166	11.68	1554100	16.95	823106	21.21
09 TAYLOR	2146466	11.68	1510374	16.95	803921	21.21
10 151 BHR	2147841	11.68	1541137	16.95	817071	21.20
11 151 BHRMS	2092929	11.68	1518051	16.95	851357	21.20
12 151 BHRMSD	2204231	11.68	1581038	16.95	865274	21.21

IS1 (DFB) = 1,4-Difluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +40% of internal standard area

AREA LOWER LIMIT = -40% of internal standard area

RT UPPER LIMIT = +0.33 minutes of internal standard RT

RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

DATA VALIDATION

FOR

**Sarney Farm
Amenia, New York**

**ORGANIC ANALYSIS DATA
Volatiles in Water Samples**

Sample Delivery Group (SDG) or Job No. 251041

Chemical Analyses Performed by:

**STL Newburgh
315 Fullerton Avenue
Newburgh, New York 12550**

FOR

**Mr. Lee Gustafson
MACTEC, Inc.
Harris Pond Office Park
32 Daniel Webster Highway, Suite 25
Merrimack, New Hampshire 03054**

Data Validation Report by:

**Strategic Environmental Management, LLC
45 State Street, No. 131
Montpelier, VT 05602
(802) 223-2496**

October 19, 2005

EXECUTIVE SUMMARY

Strategic Environmental Management, LLC (SEM-LLC) has completed the validation of the volatile organics analysis data prepared by STL Newburgh for 14 water samples, 1 Trip blank (TB), and 1 field blank (FB) from the Sarney Farm Site in Amenia, NY. The laboratory reported the data under Sample Delivery Group (SDG) No. 251041, which was submitted as a single data package, received by SEM-LLC on September 21, 2005 and includes the following samples:

Client Identification	Laboratory ID
<i>OLC02.1 (NYS95.4)</i>	
Trip Blank	251041-001
Sarney	251041-012
Emerson	251041-013
Hurlbert	251041-014
Taylor	251041-015
151 BHR	251041-016
<i>OLM4.2 (NYS95.1)</i>	
MW-7D-D/FB	251041-002
MW7D-D	251041-003
MW7D-D/DP	251041-004
MW7D-S	251041-005
MW9D-1	251041-006
MW9D-2	251041-007
MW9D-3	251041-008
MW10D-1	251041-009
MW10D-2	251041-010
MW10D-3	251041-011

The samples in this data set represent the sample collections on August 10, 2005 for the Sarney Farm July 2005 sampling round. These samples were received at the laboratory on August 12, 2005. A cross-reference of sample IDs was provided in the data package.

As a result of the validation effort qualifications of sample results were as follows:

- Results for vinyl acetate in Trip Blank, Sarney, Emerson, Hurlbert, Taylor and 151 BHR were qualified estimated (UJ).
- Results for carbon disulfide, bromodichloromethane and bromoform in the MW7D-S, MW7D-D, MW7D-D/DP, MW7D-D/FB, MW9D-1, MW9D-3, MW10D-1, MW10D-3, and MW10D-2 were qualified as estimated (UJ).

- Results for acetone in MW7D-S, MW7D-D, MW7D-D/DP, MW9D-1, MW10D-1, and MW10D-2 were qualified as less than the reporting limit (U).
- Results for methylene chloride in MW7D-D, MW7D-D/DP, MW7D-S, MW9D-1, Sarney, Emerson, Hurlbert, Taylor, and 151BHR were qualified as less than the reporting limit (U).
- Results for 1,2-dichloroethane in MW7D-D and MW7D-D/DP were rejected (R). Results for 1,2-dichloroethane should be taken from the diluted analyses (MW7D-DDL and MW7D-D/DPDL).
- Results for all other target analytes except 1,2-dichloroethane in the diluted analyses noted above were rejected (R) because acceptable results for these compounds were taken from the undiluted analyses.
- Results for the TIC, hexane, in all samples were rejected (R).

Where diluted analyses were performed and both sets of analyses were provided in the data package. Results for 1,2-dichloroethane in the undiluted samples MW7D-D and MW7D-D/DP were replaced with the acceptable concentrations in the corresponding diluted sample. As specified in the USEPA Region II SOP HW-6, Rev. 11, Section 10.2, the undiluted Form I has been used for reporting, and an "X" has been drawn across the entire Form I for the diluted analyses. The validator removed all laboratory-applied "E" and "D" qualifiers.

The laboratory to the sample Form Is appropriately applied "J" qualifiers when the concentration of an analyte was less than the sample-specific reporting limits. The validator did not remove these qualifiers.

The laboratory appropriately applied "B" qualifiers to the sample Form I's when an analyte was detected in an associated blank. The validator removed these qualifiers.

"J" and "N" qualifiers were appropriately applied to the TICs reported in the associated samples. The validator did not remove these qualifiers and the "JN" qualifier has been defined in the Introduction section of this report.

In instances when the sample results are less than ten, reported results on the Form I's report a value after the decimal point, which implies that the laboratory has reported the results to two significant figures. However, it should be noted that positive results less than ten should be reported to one significant figure and results greater than ten to two significant figures as required by the USEPA Statement of Works (SOWs); OLM and OLC. The laboratory should consistently report results greater than ten to two significant figures and results less than ten to one significant figure. The validator has adjusted reported values accordingly.

The Overall Assessment (Section XIV) summarizes the validation results. The validation findings and conclusions for each analytical parameter are detailed in the remaining sections of this

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report.

Documentation problems observed in the data package are described in Section XV.

This validation report shall be considered part of the data package for all future distributions of the volatiles data.

INTRODUCTION

Analyses were performed according to the USEPA Contract Laboratory Program (CLP) Statement of Works OLC02.1 and OLM02.2, and the NYS CLP Program ASP 95.4 and 95.1, respectively. SEM-LLC's validation was performed in conformance with USEPA's National Functional Guidelines for Organic Data Review, (USEPA 540/R-99/008, 10/99) and the USEPA Region II Standard Operating Procedure HW-6 (Rev 11). Professional judgment was applied as necessary and appropriate.

Tentative identification of up to 20 non-target analyte peaks (i.e., tentatively identified compounds, or TICs) was requested for these analyses.

The data validation process is intended to evaluate data on a technical basis rather than a contract compliance basis for chemical analyses conducted under the CLP. An initial assumption is that the data package is presented in accordance with the USEPA Methodologies and the NYS CLP requirements.

During the validation process, laboratory data are verified against all available supporting documentation. Based on the findings of the evaluation, qualifier codes may be added, deleted, or modified by the validator. Final validated results are annotated with the following codes, as defined in the USEPA Region II SOP:

- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified, and the results are therefore unusable. In some instances (e.g. dilution), a result may be indicated as "rejected" to avoid confusion when a more

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quantitatively accurate result is available.

These codes are recorded on the Data Summary Forms contained in Attachment A and the Organic Analysis Data Sheets (Form I) in Attachment B of this validation report to indicate qualifications placed on the data as a result of the validation effort. The USEPA Region II Standard Operating Procedure HW-6 (Rev 11) checklist completed by the validator can be found in Attachment C.

The data user is also cautioned that the validation effort is based on the raw data printouts provided by the laboratory. Software manipulation of the raw data cannot be routinely detected during validation unless otherwise stated in the report; these kinds of issues are outside the scope of this review.

Detailed Findings of Measurement Error Associated with the Analytical Analysis

I. Sample Conditions, Preservation and Technical Holding Times (Sample Integrity)

The water samples for volatile analysis were collected on August 10, 2005 for the Sarney Farm July 2005 sampling round. All volatile analyses were performed within the acceptable holding times for preserved water samples (14 days from collection, respectively), as required by Region II.

The pH measurement of the sample upon receipt at the laboratory was not recorded in the case narrative or in the data package, however, the COC indicated the samples were chemically preserved by the sampler with hydrochloric acid (HCL) to a pH of <2.5. In a separate submittal the laboratory provided the "Volatile Organic pH Verification Form which identified that all samples were properly preserve to a pH <2.5.

The temperature of the sample cooler on receipt at the laboratory was recorded on the COC records and was at 4°C, which was acceptable (<10°C).

II. GC/MS Instrument Performance Check (Tuning)

The samples for volatile organic analysis were analyzed on a single GC/MS system identified as MSD using a DB-624 column. The tuning of this instrument was demonstrated with analysis of 4-bromofluorobenzene (BFB); tunes were analyzed for each shift (12-hour period) during which the samples or associated standards were analyzed. All four BFB tunes were correctly calculated, within acceptable limits, and are reported accurately on the Form V summaries in the data package. Purge volumes were not documented on the CLP-like summary forms. However, since noted previously by the laboratory it was assumed that the OLC analyses were performed using 25 mLs and the OLM analyses were performed using 5 mLs.

III. GC/MS Calibration

Areas for one or more target analytes were manually integrated in some of the standards and samples for this data set. Documentation was provided for the manual integrations in the standards and samples. Validation of the data was completed on the assumption that all manual integrations were correctly performed and accurately reported by the laboratory. The analyst properly initialed all manual integrations. No surrogate or internal standard compounds (quality control reference standards) were manually integrated in any of the standards.

A. Initial Calibration

A single IC (8/17/05) was performed in support of the OLC analysis and a single IC (8/18/05) was performed in support of the OLM analysis. Each IC consisted of five concentration levels; 1 ppb, 2 ppb, 5 ppb, 10 ppb, & 25 ppb for the OLC and 10 ppb, 20 ppb, 50 ppb, 100 ppb, and 200 ppb for the OLM analyses. Documentation of all individual IC standards were present in the data package

and relative response factor (RRF) as well as percent relative standard deviation (%RSD) values were correctly calculated and accurately reported on the Form VI summary.

All average RRFs were above the 0.05 minimum technical criterion for the selected target analytes with the exceptions of acetone (0.014), 2-butanone (0.019), and 1,2-dibromo-3-chloropropane (0.042) in the OLC analysis and all %RSDs were below the maximum limit (30%) specified by Region II with the exception of vinyl acetate at 34.62%RSD in the OLC analysis.

Based on the elevated %RSD value in the associated IC, results for vinyl acetate in Trip Blank, Samey, Emerson, Hurlbert, Taylor and 151 BHR were qualified estimated (UJ).

Pursuant to the Region II validation document, results for acetone, 2-butanone, and 1,2-dibromo-3-chloropropane in all samples warranted rejection or estimation based on the low RRFs achieved. However, acetone, 2-butanone, and 1,2-dibromo-3-chloropropane were spiked at concentrations of 25, 25 and 5 ug/L, respectively in the laboratory spiked blank, and in the matrix spike and matrix spike duplicate samples prepared and analyzed with this data set; acceptable recoveries for acetone, 2-butanone, and 1,2-dibromo-3-chloropropane were achieved (range; 84-128%). Therefore, based on the acceptable recovery of these analytes in the laboratory spike blank and the matrix spike analyses, no field samples were qualified based on the low RRF value.

B. Continuing Calibration (CC)

Two continuing calibration (CC) standards were run in support of the sample analyses for the OLM analysis reported in the data package. Documentation of the CC standards were present in the data package and RRF as well as percent difference (%D) values were reported on the Form VII summaries within the data package. Sample results were reported using the RRF of the associated CC standard for quantitation. For the OLC analyses, the samples were analyzed immediately after the IC curve; therefore the samples were quantified using the mid-point (5 ppb) of the initial calibration curve.

All average RRFs for the target analytes were above the 0.05 minimum criteria and all %D results were below the maximum limit of 25% with the following exceptions.

<u>CC Date</u>	<u>Compound</u>	<u>RRF</u>	<u>%D Value</u>
8/18/05 (OLM)	carbon disulfide		-25.6
8/18/05 (OLM)	bromodichloromethane		-25.1
8/18/05 (OLM)	bromoform		-27.1

Based on the elevated %D values in the CC standards, results for carbon disulfide, bromodichloromethane and bromoform in the MW7D-S, MW7D-D, MW7D-D/DP, MW7D-D/FB, MW9D-1, MW9D-3, MW10D-1, MW10D-3, and MW10D-2 were qualified as estimated (UJ).

It should be noted that negative % difference values would result in a low bias for positive detects, and a positive % difference will result in a high bias for positive detects.

IV. Blanks

One laboratory method blank (MB) for OLC analysis and two laboratory MBs for OLM were prepared and analyzed with the water samples in this data set (VBLK018, VBLK019 and VBLK017). No target compounds were found in the MB in the OLC analysis. Acetone (range 3-5 ppb) was detected in both MBs (VBLK018 and VBLK019) in the OLM analysis. Target compounds, 2-butanone (3.6 ppb) and 4-methyl-2-butanone (1.9 ppb) were detected in one of the two MBs for the OLM analysis. The TIC, hexane (range 2-3 ppb) was detected in the MB from the OLC analysis and in one of the two MBs from the OLM analysis. Discussion of TICs and qualification based on TICs is discussed in Section XII of this report.

Based on laboratory blank contamination, results for acetone in MW7D-S, MW7D-D, MW7D-D/DP, MW9D-1, MW10D-1, and MW10D-2 were qualified as less than the reporting limit (U).

The laboratory appropriately applied "B" qualifiers to the sample Form I's when an analyte was detected in an associated blank. The validator removed these qualifiers.

One Trip Blank (TB) was included in this SDG analyzed by OLC analysis. Methylene chloride (1.5 ug/L) was detected in the TB and the TIC, hexane (7.61 minutes at 2.7 ug/L) was detected in the TB.

A single field blank (FB) identified as MW-7D-D/FB was collected and analyzed with the OLM analysis. Methylene Chloride (2.1 ug/L) was detected in the FB and the TIC, hexane (7.44 minutes at 22 ug/L) was detected in the FB.

Two storage blanks were submitted as a separate submittal and analyzed with the samples in this data set. No target compounds were detected in the associated storage blanks. However, the TIC, hexane (range 2.2 – 5.5 ug/L) was detected in both storage blanks.

Based on TB and FB contamination, results for methylene chloride in MW7D-D, MW7D-D/DP, MW7D-S, MW9D-1, Sarney, Emerson, Hurlbert, Taylor, and 151BHR were qualified as less than the reporting limit (U). Discussion of TICs and qualification based on TICs is discussed in Section XII of this report.

V. System Monitoring Compound Recoveries

Recoveries (97-111%) for BFB in the OLC analyses and all three surrogate compounds (1,2-dichloroethane-d4, toluene-d8 and BFB) in the OLM analyses (92-102%) were correctly calculated and were within acceptance limits for all sample analyses.

VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample 151BHR was prepared as an OLC water-matrix MS/MSD pair. Percent recoveries (%R) and relative percent differences (%RPD) between paired recoveries were correctly calculated and accurately reported on the Form III summary for the OLC spiked analytes. All reported %Rs (90-120%) were acceptable and reproducible (RPDs = 0-2%).

Sample MW7D-D was prepared as an OLM water-matrix MS/MSD pair. Percent recoveries and relative percent differences between paired recoveries were correctly calculated and accurately reported on the Form III summary for the OLM spiked analytes. All reported %Rs (86-96%) were acceptable and reproducible (RPDs = 4-6%). Two blank spike samples were analyzed with the OLM samples and a single blank spike samples was analyzed with the OLC samples in this data set as required by the NYS ASP Program. Percent recoveries were correctly calculated, and accurately reported. All reported %Rs were acceptable (92-112%).

Although not reported on the Form III summary by the client, it should be noted that all analytes were spiked into the MS/MSD and blank spike samples rather than just the five analytes required by the OLM SOW or seven for the OLC analyses. Therefore non-spiked target compounds could not be evaluated against the parent sample. Review of all spiked analytes exhibited satisfactory recoveries (between 80-120%).

VII. Laboratory Control Samples (LCS)

One laboratory control sample was analyzed with the OLC samples as required by the OLC SOW. Percent recoveries (100-106%) were correctly calculated and within established QC limits (60-140%) for all spiked analytes. It was noted by the laboratory in the case narrative that the laboratory inadvertently did not spike the LCS with vinyl chloride; however, since the blank spike analyzed just prior to the LCS was spiked with vinyl chloride and exhibited acceptable recovery, no data was qualified on this basis.

VIII. Field Duplicates

Sample MW7D-D/DP was identified as a field duplicate of MW7D-D. Relative percent differences between paired field duplicate results of MW7D-D and MW7D-D/DP for all detected target compounds (0-9 RPD) were less than the maximum acceptance limit of 30 RPD for water samples.

IX. Internal Standard (IS) Performance

All IS areas and retention times (RT) as reported on the Form VIII summaries were within the established QC limits for all reported sample analyses in these data packages.

X. Target Compound List (TCL) Identification

Reported target compounds were correctly identified with supporting mass spectra present in the data package.

XI. Compound Quantitation and Reported Quantitation Limits

Target compound quantitations and reported detection limits were correctly calculated and accurately reported, including adjustments for sample dilutions.

Results for 1,2-dichloroethane in MW7D-D and MW7D-D/DP were rejected (R) due to detection of this compound outside the established linear range of the instrument. Results for 1,2-dichloroethane should be taken from the diluted analyses (MW7D-DDL and MW7D-D/DPDL).

Results for all other target analytes except 1,2-dichloroethane in the diluted analyses noted above were rejected (R) because acceptable results for these compounds were taken from the undiluted analyses.

The concentrations of 1,2-dichloroethane in the undiluted analysis were replaced with the acceptable concentrations in the corresponding diluted sample on the Form I summary. As specified in the Region II SOP HW-6, Rev. 11, Section 10.2 an "X" has been drawn across the entire Form I for the diluted analysis.

"E" qualifiers were appropriately applied by the laboratory to sample Form I results when concentrations of target analytes were greater than the instrument calibration range. The laboratory to positive results from diluted sample analyses properly applied "D" qualifiers. The validator removed all "E and D" qualifiers.

The laboratory to the sample Form Is appropriately applied "J" qualifiers when the concentration of an analyte was less than the sample-specific reporting limits. The validator did not remove these qualifiers.

In instances when the sample results are less than ten, reported results on the Form I's report a value after the decimal point, which implies that the laboratory has reported the results to two significant figures. However, it should be noted that positive results less than ten should be reported to one significant figure and results greater than ten to two significant figures as required by the USEPA SOWs. The laboratory should consistently report results greater than ten to two significant figures and results less than ten to one significant figure. The validator has adjusted reported values accordingly.

The Data Summary Forms (DSFs) in Attachment A list all individual sample analytes affected by the applied qualifications. All positive results are listed on these forms, whether or not the value or qualifier was changed as a result of the validation. Where no result is listed, the compound was not detected and the reporting limit was not qualified. Sample-specific quantitation limits may be found on the laboratory-generated Form I for each sample (Attachment B) or may be calculated from

the information on the DSFs as follows: reported quantitation limit multiplied by the dilution factor (DF)."

XII. Tentatively Identified Compounds (TICs)

All appropriate peaks were searched and reported as TICs in the samples in this SDG. The validator concurred with the laboratory's identifications of the TIC compound from the mass spectra. Hexane was reported as a TIC in all samples. Hexane was detected in the TB, in two of the three MBs, and the FB as noted in Section IV; therefore results for the TIC, hexane in all samples were rejected (R) based on the fact that this compound is a common laboratory artifact and field contaminant, and may have been artificially introduced during the sampling or analytical process; therefore, is not a true sample component at these site sample locations.

"J" and "N" qualifiers were appropriately applied to the TICs reported in the associated samples. The validator did not remove these qualifiers and the "JN" qualifier has been defined in the Introduction section of this report.

Form I-TICs, as reported by the laboratory and annotated by the validator, are included in Attachment B. The Data Summary Forms in Attachment A are used to summarize the target compounds only and do not list the TICs.

XIII. System Performance

The analytical system appears to have been working well at the time of these analyses based on evaluation of the available raw data.

XIV. Overall Assessment

Findings of the validation effort resulted in the following qualifications of sample results:

- Based on the elevated %RSD value in the associated IC, results for vinyl acetate in Trip Blank, Sarney, Emerson, Hurlbert, Taylor and 151 BHR were qualified estimated (UJ).
- Based on the elevated %D values in the CC standards, results for carbon disulfide, bromodichloromethane and bromoform in the MW7D-S, MW7D-D, MW7D-D/DP, MW7D-D/FB, MW9D-1, MW9D-3, MW10D-1, MW10D-3, and MW10D-2 were qualified as estimated (UJ).
- Based on laboratory blank contamination, results for acetone in MW7D-S, MW7D-D, MW7D-D/DP, MW9D-1, MW10D-1, and MW10D-2 were qualified as less than the reporting limit (U).

- Based on TB and FB contamination, results for methylene chloride in MW7D-D, MW7D-D/DP, MW7D-S, MW9D-1, Sarney, Emerson, Hurlbert, Taylor, and 151BHR were qualified as less than the reporting limit (U).
- Results for 1,2-dichloroethane in MW7D-D and MW7D-D/DP were rejected (R) due to detection of this compound outside the established linear range of the instrument. Results for 1,2-dichloroethane should be taken from the diluted analyses (MW7D-DDL and MW7D-D/DPDL).
- Results for all other target analytes except 1,2-dichloroethane in the diluted analyses noted above were rejected (R) because acceptable results for these compounds were taken from the undiluted analyses.
- Results for the TIC, hexane in all samples were rejected (R) based on the fact that this compound is a common laboratory artifact and field contaminant, and may have been artificially introduced during the sampling or analytical process; therefore, is not a true sample component at these site/sample locations.

Where diluted analyses were performed and both sets of analyses were provided in the data package. Results for 1,2-dichloroethane in the undiluted samples MW7D-D and MW7D-D/DP were replaced with the acceptable concentrations in the corresponding diluted sample. As specified in the USEPA Region II SOP HW-6, Rev. 11, Section 10.2, the undiluted Form I has been used for reporting, and an "X" has been drawn across the entire Form I for the diluted analyses. The validator removed all laboratory-applied "E" and "D" qualifiers.

The laboratory to the sample Form I is appropriately applied "J" qualifiers when the concentration of an analyte was less than the sample-specific reporting limits. The validator did not remove these qualifiers.

"J" and "N" qualifiers were appropriately applied to the TICs reported in the associated samples. The validator did not remove these qualifiers and the "JN" qualifier has been defined in the Introduction section of this report.

In instances when the sample results are less than ten, reported results on the Form I's report a value after the decimal point, which implies that the laboratory has reported the results to two significant figures. However, it should be noted that positive results less than ten should be reported to one significant figure and results greater than ten to two significant figures as required by the SOW. The laboratory should consistently report results greater than ten to two significant figures and results less than ten to one significant figure. The validator has adjusted reported values accordingly.

Documentation problems observed in the data package are described in Section XIV. At the discretion of the data user, corrections and/or clarifications should be requested from the laboratory as described in Section XV.

XV. Documentation

- The compounds vinyl acetate and bromochloromethane were reported on the Form I summaries in this data set. Since vinyl acetate and bromochloromethane are listed in the NYS 95.4 manual, these compounds have been added to the Data Summary Form for the OLC analyses. These compounds were not reported in previous data sets except for the data set in 2003; therefore it was decided to add these to the analytical compound list for the OLC analyses.
- The VOA pH Verification Form and the Storage blank results were not reported in the original submittal of this data package. This information was submitted as a separate data submittal within the data package. For future sampling efforts all data should be submitted with the original data package in the appropriate section as described in the OLC and OLM SOWs.
- The narrative reads "%D of the following compounds is outside the CCV criteria"; however, no compounds were listed. For future sampling efforts, the narrative should be complete and accurate.
- Throughout the raw data, the spectra page which displays the spectral results prints the compound text for the 2nd compound identification in unreadable font (too small). For future data package, the laboratory should correct the font printing of the spectra display so that it is readable.

These issues do not directly affect the validity of the analytical data, but could be problematic if the results were to be used in a litigation situation.

This validation report should be considered part of the data package for all future distributions of the volatile analysis data.

DATA SUMMARY FORM: VOLATILES 1
WATER SAMPLES
(ug/L)

Site Name: Sarney Farm

SDG No. 251041

Sampling Date: August 10, 2005

SEM-LLC Project No. 0921005-1001

Sample Number Lab ID Concentration/Dilution Factor ug/L *	MW-7D-D/1B 251041-002 1	MW7D-D 251041-003 1	MW7D-DDL 251041-003DL 10	MW7D-D/DP 251041-004 1	MW7D-D/DPDL 251041-004DL 10	MW7D-S 251041-005 1	MW9D-1 251041-006 1	MW9D-2 251041-007 1
RL								
10 Chloromethane			R		R			
10 Bromomethane			R		R			
10 Vinyl Chloride			R		R			
10 Chloroethane			R		R			
10 Methylene Chloride	2 J	10 U	R	10 U	R	10 U	10 U	
10 Acetone		10 U	R	10 U	R	10 U	10 U	
10 Carbon Disulfide	UJ	UJ	R	UJ	R	UJ	UJ	
10 1,1-Dichloroethene			R		R			
10 1,1-Dichloroethane		1 J	R	1 J	R			1 J
10 cis-1,2-Dichloroethene		32	R	32	R	4 J	7 J	16
10 trans-1,2-Dichloroethene			R		R			
10 Chloroform			R		R		2 J	
10 1,2-Dichloroethane		R	290	R	270	1 J	93	140
10 2-Butanone (MEK)			R		R			
10 1,1,1-Trichloroethane			R		R			
10 Carbon Tetrachloride			R		R			
10 Bromodichloromethane	UJ	UJ	R	UJ	R	UJ	UJ	
10 1,2-Dichloropropane			R		R			
10 cis-1,3-Dichloropropene			R		R			
10 Trichloroethene		2 J	R	2 J	R			5 J

*includes adjustments for slightly larger or smaller sample volumes

SEM-LLC Project No. 0921005-1001

[illegible]

*includes adjustments for slightly larger or smaller sample volumes

DATA SUMMARY FORM: VOLATILES 1
WATER SAMPLES
(ug/L)

Site Name: Sarney Farm

Sampling Date: August 10, 2005

SDG No. 251041

SEM-LLC Project No. 0921005-1001

Sample Number Lab ID Concentration/Dilution Factor ug/L *	MW9D-3	MW10D-1	MW10D-2	MW10D-3	RL
	251041-008	251041-009	251041-010	251041-011	
	1	1	1	1	
10 Chloromethane					
10 Bromomethane					
10 Vinyl Chloride					
10 Chloroethane					
10 Methylene Chloride					
10 Acetone		10 U	10 U		
10 Carbon Disulfide	UJ	UJ	UJ	UJ	
10 1,1-Dichloroethene					
10 1,1-Dichloroethane					
10 cis-1,2-Dichloroethene	15	1 J	1 J		
10 trans-1,2-Dichloroethene					
10 Chloroform					
10 1,2-Dichloroethane	150	40	55	5 J	
10 2-Butanone (MEK)					
10 1,1,1-Trichloroethane					
10 Carbon Tetrachloride					
10 Bromodichloromethane	UJ	UJ	UJ	UJ	
10 1,2-Dichloropropane					
10 cis-1,3-Dichloropropene					
10 Trichloroethene	5 J				

*includes adjustments for slightly larger or smaller sample volumes
OLM04.2 NYS ASP 95.1

SEM-LLC 3/17/2006

Page 3 of 6

DATA SUMMARY FORM: VOLATILES 2
WATER SAMPLES
(ug/L)

Site Name: Sarney Farm

SDG No. 251041

Sampling Date: August 10, 2005

SEM-LLC Project No. 0921005-1001

[illegible]

*includes adjustments for slightly larger or smaller sample volumes

DATA SUMMARY FORM: VOLATILES 1
WATER SAMPLES
(ug/L)

Site Name: Sarney Farm

Sampling Date: August 10, 2005

SDG No. 251041

SEM-LLC Project No. 0921005-1001

Client ID Lab ID Concentration/Dilution Factor ug/L *	Trip Blank 251041-001 1	Sarney 251041-012 1	Emerson 251041-013 1	Huribert 251041-014 1	Taylor 251041-015 1	151BHR 251041-016 1		
RL								
1 Chloromethane								
1 Bromomethane								
1 Vinyl Chloride								
1 Chloroethane								
2 Methylene Chloride	2 J	2 U	2 U	2 U	2 U	2 U		
5 Acetone								
1 Carbon Disulfide								
1 1,1-Dichloroethene								
1 1,1-Dichloroethane								
1 cis-1,2-Dichloroethene								
1 trans-1,2-Dichloroethene								
1 Chloroform								
1 1,2-Dichloroethane								
5 2-Butanone (MEK)								
1 1,1,1-Trichloroethane								
1 Carbon Tetrachloride								
1 Bromodichloromethane								
1 1,2-Dichloropropane								
1 cis-1,3-Dichloropropene								
1 Trichloroethene								

*includes adjustments for slightly larger or smaller sample volumes (25 mL purge)

DATA SUMMARY FORM: VOLATILES 2
WATER SAMPLES
(ug/L)

Site Name: Sarney Farm

Sampling Date: August 10, 2005

SDG No. 251041

SEM-LLC Project No. 0921005-1001

Client ID Lab ID Concentration/Dilution Factor ug/L *	Trip Blank		Sarney		Emerson		Hurlbert		Taylor		151BHR	
	251041-001		251041-012		251041-013		251041-014		251041-015		251041-016	
RL	1		1		1		1		1		1	
1 Dibromochloromethane												
1 1,1,2-Trichloroethane												
1 Benzene												
1 trans-1,3-Dichloropropene												
1 Bromoform												
5 4-Methyl-2-pentanone (MIBK)												
5 2-Hexanone												
1 Tetrachloroethene												
1 1,1,2,2-Tetrachloroethane												
1 1,2-Dibromoethane (EDB)												
1 Toluene												
1 Chlorobenzene												
1 Ethylbenzene												
1 Styrene												
1 Xylenes (total)												
1 1,3-Dichlorobenzene												
1 1,4-Dichlorobenzene												
1 1,2-Dichlorobenzene												
1 1,2-Dibromo-3-chloropropane												
1 Bromochloromethane												
1 Vinyl Acetate	UJ		UJ		UJ		UJ		UJ		UJ	

*includes adjustments for slightly larger or smaller sample volumes (25 mL purge)

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D/FB
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 12:00
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-2
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
HYSASP 95.1	CLP Volatile Organic Analysis						
	Chloromethane	10	U	10	ug/L	08/18/05	dad
	Bromomethane	10	U	10	ug/L	08/18/05	dad
	Vinyl chloride	10	U	10	ug/L	08/18/05	dad
	Chloroethane	10	U	10	ug/L	08/18/05	dad
	Methylene chloride	2.7	J	10	ug/L	08/18/05	dad
	Acetone	10	U	10	ug/L	08/18/05	dad
	Carbon disulfide	10	U	10	ug/L	08/18/05	dad
	1,1-Dichloroethene	10	U	10	ug/L	08/18/05	dad
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	dad
	Chloroform	10	U	10	ug/L	08/18/05	dad
	1,2-Dichloroethane	10	U	10	ug/L	08/18/05	dad
	2-Butanone (MEK)	10	U	10	ug/L	08/18/05	dad
	1,1,1-Trichloroethane	10	U	10	ug/L	08/18/05	dad
	Carbon tetrachloride	10	U	10	ug/L	08/18/05	dad
	Bromodichloromethane	10	U	10	ug/L	08/18/05	dad
	1,2-Dichloropropane	10	U	10	ug/L	08/18/05	dad
	cis-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	dad
	Trichloroethene	10	U	10	ug/L	08/18/05	dad
	Dibromochloromethane	10	U	10	ug/L	08/18/05	dad
	1,1,2-Trichloroethane	10	U	10	ug/L	08/18/05	dad
	Benzene	10	U	10	ug/L	08/18/05	dad
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	dad
	Bromoform	10	U	10	ug/L	08/18/05	dad
	4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L	08/18/05	dad
	2-Hexanone	10	U	10	ug/L	08/18/05	dad
	Tetrachloroethene	10	U	10	ug/L	08/18/05	dad
	1,1,2,2-Tetrachloroethane	10	U	10	ug/L	08/18/05	dad
	Toluene	10	U	10	ug/L	08/18/05	dad
	Chlorobenzene	10	U	10	ug/L	08/18/05	dad
	Ethylbenzene	10	U	10	ug/L	08/18/05	dad
	Styrene	10	U	10	ug/L	08/18/05	dad
	Xylenes (total)	10	U	10	ug/L	08/18/05	dad
	cis-1,2-Dichloroethene	10	U	10	ug/L	08/18/05	dad
	trans-1,2-Dichloroethene	10	U	10	ug/L	08/18/05	dad

Rev
10/17/05

In Description = Dry Wgt.

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SEVIER
TRENT

NYSDOH 10142

NJDPR 76018

CTDOPB 044284

EPA 8160-B

PA 66-078

M.H. 104

STL Newburgh
 216 Hudson Avenue
 Newburgh, NY 12550
 Tel (845) 562-0800
 Fax (845) 562-0811

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-D/F3

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-002
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081813.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. Date Analyzed: 8/18/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	22	JN

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SEVERN
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NYSOCH 10142

NADP 73018

CDOHS PH-054

EPA NY043

FA 93-878

L. NY043

STL Newburgh
 315 Fulton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 562-0844

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: PACED Engineering and Consulting, Inc. PROJECT: 3540030018

ATTN: Lee Gustafson

Customer Sample ID: MW7D-D
Date Sampled.....: 08/10/2005
Time Sampled.....: 12:50
Sample Matrix.....: Water

Laboratory Sample ID: 251041-3
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
MYSASP 95.1	CLP Volatile Organic Analysis						
	Chloromethane	10	U	10	ug/L	08/18/05	clnd
	Bromomethane	10	U	10	ug/L	08/18/05	clnd
	Vinyl chloride	10	U	10	ug/L	08/18/05	clnd
	Chloroethane	10	U	10	ug/L	08/18/05	clnd
	Methylene chloride	10.18	U	10	ug/L	08/18/05	clnd
	Acetone	10.28	U	10	ug/L	08/18/05	clnd
	Carbon disulfide	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethane	1.1	U	10	ug/L	08/18/05	clnd
	Chloroform	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloroethane	290.20	U	10	ug/L	08/18/05	clnd
	2-Butanone (MEK)	10	U	10	ug/L	08/18/05	clnd
	1,1,1-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Carbon tetrachloride	10	U	10	ug/L	08/18/05	clnd
	Bromodichloromethane	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	cis-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Trichloroethene	2.29	U	10	ug/L	08/18/05	clnd
	Dibromochloromethane	10	U	10	ug/L	08/18/05	clnd
	1,1,2-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Benzene	7.8	U	10	ug/L	08/18/05	clnd
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Bromoforn	10	U	10	ug/L	08/18/05	clnd
	4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L	08/18/05	clnd
	2-Hexanone	10	U	10	ug/L	08/18/05	clnd
	Tetrachloroethene	10	U	10	ug/L	08/18/05	clnd
	1,1,2,2-Tetrachloroethene	10	U	10	ug/L	08/18/05	clnd
	Toluene	10	U	10	ug/L	08/18/05	clnd
	Chlorobenzene	10	U	10	ug/L	08/18/05	clnd
	Ethylbenzene	10	U	10	ug/L	08/18/05	clnd
	Styrene	10	U	10	ug/L	08/18/05	clnd
	Xylenes (total)	10	U	10	ug/L	08/18/05	clnd
	cis-1,2-Dichloroethane	32	U	10	ug/L	08/18/05	clnd
	trans-1,2-Dichloroethane	10	U	10	ug/L	08/18/05	clnd

10/17/05

In Description = Dry Wgt.

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SEVERN
TRENT

NYSDOH 10142

NYSDOH 70015

CTDOHS PH 0054

EPA 8160-G

PA 08-076

NYSDOH

STL Newburgh
315 W. Branch Avenue
Newburgh, NY 12553
Tel: (845) 562-0500
Fax: (845) 562-0501

*Taken from dilution analysis

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-D

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-003

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081814.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 009140-54-3	Hexene	7.44	20	JN

R

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10/17/05

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SEVERN
TRENT

MYSDOH 10142

NJDEP 73015

EPA 821-549

PA 58-178

PA 58-178

PA 58-178

STL Newburgh
315 Pullman Ave NW
Newburgh, NY 12550
Tel: (845) 562-0840
Fax: (845) 562-0811

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: HACTEC Engineering and Consulting, Inc. PROJECT: 364030018

ATTN: Lee Quethron

Customer Sample ID: HW70-D
 Date Sampled: 08/10/2005
 Time Sampled: 12:50
 Sample Matrix: Water

Laboratory Sample ID: 251041-3
 Date Received: 08/12/2005
 Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
MYSASP 05.1	GLP Volatile Organic Analysis							
	Chloromethane	100	U		100	ug/L	08/19/05	and
	Bromomethane	100	U		100	ug/L	08/19/05	and
	Vinyl chloride	100	U		100	ug/L	08/19/05	and
	Chloroethane	100	U		100	ug/L	08/19/05	and
	Methylene chloride	100	U		100	ug/L	08/19/05	and
	Acetone	100	U		100	ug/L	08/19/05	and
	Carbon disulfide	100	U		100	ug/L	08/19/05	and
	1,1-Dichloroethene	100	U		100	ug/L	08/19/05	and
	1,1-Dichloroethane	100	U		100	ug/L	08/19/05	and
	Chloroform	100	U		100	ug/L	08/19/05	and
	1,2-Dichloroethene	299	U		100	ug/L	08/19/05	and
	2-Butanone (MEK)	100	U		100	ug/L	08/19/05	and
	1,1,1-Trichloroethane	100	U		100	ug/L	08/19/05	and
	Carbon tetrachloride	100	U		100	ug/L	08/19/05	and
	Bromodichloromethane	100	U		100	ug/L	08/19/05	and
	1,2-Dichloropropane	100	U		100	ug/L	08/19/05	and
	cis-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	and
	Trichloroethene	100	U		100	ug/L	08/19/05	and
	Dibromochloromethane	100	U		100	ug/L	08/19/05	and
	1,1,2-Trichloroethane	100	U		100	ug/L	08/19/05	and
	Benzene	10	J	JO	100	ug/L	08/19/05	and
	Trans-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	and
	Bromoform	100	U		100	ug/L	08/19/05	and
	4-Methyl-2-pentanone (MIBK)	100	U		100	ug/L	08/19/05	and
	2-Hexanone	100	U		100	ug/L	08/19/05	and
	Tetrachloroethane	100	U		100	ug/L	08/19/05	and
	1,1,2,2-Tetrachloroethane	100	U		100	ug/L	08/19/05	and
	Toluene	100	U		100	ug/L	08/19/05	and
	Chlorobenzene	100	U		100	ug/L	08/19/05	and
	Ethylbenzene	100	U		100	ug/L	08/19/05	and
	Styrene	100	U		100	ug/L	08/19/05	and
	Xylenes (total)	100	U		100	ug/L	08/19/05	and
	cis-1,2-Dichloroethene	42	J	D	100	ug/L	08/19/05	and
	trans-1,2-Dichloroethene	100	U		100	ug/L	08/19/05	and

* Reported in the undiluted analysis

In Description = Dry Wgt.

Page 4
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CURRENT

NYSOEH 10142

NJDEP 73016

CTDOHS PH-0664

EPA NY008

PA 66-378

M-A 9610

STL Newburgh
 315 Platteau Avenue
 Newburgh, NY 12550
 Tel (845) 562-0900
 Fax (845) 562-0941

10/17/05

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: NACVE Engineering and Consulting, Inc. PROJECT: 3540030018

ATTN: Lee Gustafson

Customer Sample ID: MW73-D/DP
 Date Sampled: 08/10/2005
 Time Sampled: 12:50
 Sample Matrix: Water

Laboratory Sample ID: 251041-4
 Date Received: 08/12/2005
 Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EYSASIP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	10	U		10	ug/L	08/18/05	dnd
	Bromomethane	10	U		10	ug/L	08/18/05	dnd
	Vinyl chloride	10	U		10	ug/L	08/18/05	dnd
	Chloroethane	10	U		10	ug/L	08/18/05	dnd
	Methylene chloride	10 <i>10 14</i>	U	<i>+</i>	10	ug/L	08/18/05	dnd
	Acetone	10 <i>10 24</i>	U	<i>+</i>	10	ug/L	08/18/05	dnd
	Carbon disulfide	10	U	<i>5 11</i>	10	ug/L	08/18/05	dnd
	1,1-Dichloroethene	10	U		10	ug/L	08/18/05	dnd
	1,1-Dichloroethane	10 <i>1.2</i>	U		10	ug/L	08/18/05	dnd
	Chloroform	10	U		10	ug/L	08/18/05	dnd
	1,2-Dichloroethane	210 <i>210</i>	U	<i>+</i>	10	ug/L	08/18/05	dnd
	2-Butanone (MEK)	10	U		10	ug/L	08/18/05	dnd
	1,1,1-Trichloroethene	10	U		10	ug/L	08/18/05	dnd
	Carbon tetrachloride	10	U		10	ug/L	08/18/05	dnd
	Bromodichloromethane	10	U	<i>5</i>	10	ug/L	08/18/05	dnd
	1,2-Dichloropropane	10	U		10	ug/L	08/18/05	dnd
	cis-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dnd
	Trichloroethene	10 <i>2.0</i>	U		10	ug/L	08/18/05	dnd
	Dibromochloromethane	10	U		10	ug/L	08/18/05	dnd
	1,1,2-Trichloroethane	10	U		10	ug/L	08/18/05	dnd
	Benzene	10 <i>7.0</i>	U		10	ug/L	08/18/05	dnd
	trans-1,3-Dichloropropene	10	U		10	ug/L	08/18/05	dnd
	Bromoform	10	U	<i>5</i>	10	ug/L	08/18/05	dnd
	4-Methyl-2-pentanone (MIBK)	10	U		10	ug/L	08/18/05	dnd
	2-Hexanone	10	U		10	ug/L	08/18/05	dnd
	Tetrachloroethene	10	U		10	ug/L	08/18/05	dnd
	1,1,2,2-Tetrachloroethane	10	U		10	ug/L	08/18/05	dnd
	Toluene	10	U		10	ug/L	08/18/05	dnd
	Chlorobenzene	10	U		10	ug/L	08/18/05	dnd
	Ethylbenzene	10	U		10	ug/L	08/18/05	dnd
	Styrene	10	U		10	ug/L	08/18/05	dnd
	Xylenes (total)	10	U		10	ug/L	08/18/05	dnd
	cis-1,2-Dichloroethene	32	U		10	ug/L	08/18/05	dnd
	trans-1,2-Dichloroethene	10	U		10	ug/L	08/18/05	dnd

* In Description = Dry Wgt.

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TRENT STL

HYSDOH 10142

NUDEP 73015

CDOHS PH 1554

EPA NY048

PA 40-378

MAY048

STL Newburgh
 315 Fulton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0690
 Fax (845) 562-0841

* taken from the dilution analysis.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW70-D/DP

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: 251041-004

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081815.D

Level: (low/med) LOW Date Received: 8/12/2005

% Moisture: not dec. _____ Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-34-3	Hexane	7.44	19	IN R

Handwritten: 10/17/05

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STL

FORM 1 VOLATILE

NYSDOH 10142

NJDEP 72018

CTDOH3 PH-0864

EPA NY045

PA 88-078

M-NY048

STL Newburgh
315 Madison Avenue
Newburgh, NY 12550
Tel: (845) 562-0784
Fax: (845) 562-0841

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 36-0030018

ATTN: Lee Gustafson

Customer Sample ID: M7D-0/09
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 12:50
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-4
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
HYSASP 95.1	CLP Volatile Organic Analysis							
	Chloromethane	100	U		100	ug/L	08/19/05	clnd
	Bromomethane	100	U		100	ug/L	08/19/05	clnd
	Vinyl chloride	100	U		100	ug/L	08/19/05	clnd
	Chloroethane	100	U		100	ug/L	08/19/05	clnd
	Methylene chloride	100	U		100	ug/L	08/19/05	clnd
	Acetone	100	U		100	ug/L	08/19/05	clnd
	Carbon disulfide	100	U		100	ug/L	08/19/05	clnd
	1,1-Dichloroethane	100	U		100	ug/L	08/19/05	clnd
	1,1-Dichloroethane	100	U		100	ug/L	08/19/05	clnd
	Chloroform	100	U		100	ug/L	08/19/05	clnd
	1,2-Dichloroethane	270	U	D *	100	ug/L	08/19/05	clnd
	2-Butanone (MEK)	100	U		100	ug/L	08/19/05	clnd
	1,1,1-Trichloroethane	100	U		100	ug/L	08/19/05	clnd
	Carbon tetrachloride	100	U		100	ug/L	08/19/05	clnd
	Bromodichloromethane	100	U		100	ug/L	08/19/05	clnd
	1,2-Dichloropropane	100	U		100	ug/L	08/19/05	clnd
	cis-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	clnd
	Trichloroethene	100	U		100	ug/L	08/19/05	clnd
	Dibromochloromethane	100	U		100	ug/L	08/19/05	clnd
	1,1,2-Trichloroethane	100	U		100	ug/L	08/19/05	clnd
	Benzene	100	U		100	ug/L	08/19/05	clnd
	trans-1,3-Dichloropropene	100	U		100	ug/L	08/19/05	clnd
	Bromoform	100	U		100	ug/L	08/19/05	clnd
	4-Methyl-2-pentanone (MIBK)	100	U		100	ug/L	08/19/05	clnd
	2-Hexanone	100	U		100	ug/L	08/19/05	clnd
	Tetrachloroethene	100	U		100	ug/L	08/19/05	clnd
	1,1,2,2-Tetrachloroethane	100	U		100	ug/L	08/19/05	clnd
	Toluene	100	U		100	ug/L	08/19/05	clnd
	Chlorobenzene	100	U		100	ug/L	08/19/05	clnd
	Ethylbenzene	100	U		100	ug/L	08/19/05	clnd
	Styrene	100	U		100	ug/L	08/19/05	clnd
	Xylenes (total)	100	U		100	ug/L	08/19/05	clnd
	cis-1,2-Dichloroethene	40	U	D	100	ug/L	08/19/05	clnd
	trans-1,2-Dichloroethene	100	U		100	ug/L	08/19/05	clnd

* In Description = Dry Wgt.

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NYSDOH 10142

NJDEP 70015

CTDOHS F10004

EPA 821-D-02

PA 00-078

M-NY040

STL Newburgh
 315 Fulton Avenue
 Newburgh, NY 12550
 Tel (845) 662-2600
 Fax (845) 662-0841

*reported in the undelivered analysis

Kron 10/17/05

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: HM7D-5
Date Sampled: 08/10/2005
Time Sampled: 13:25
Sample Matrix: Water

Laboratory Sample ID: 251041-5
Date Received: 08/12/2005
Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis						
	Chloromethane	10	U	10	ug/L	08/18/05	clnd
	Bromomethane	10	U	10	ug/L	08/18/05	clnd
	Vinyl chloride	10	U	10	ug/L	08/18/05	clnd
	Chloroethane	10	U	10	ug/L	08/18/05	clnd
	Methylene chloride	10 ~~10~~	U ~~U~~	10 ~~10~~	ug/L	08/18/05	clnd
	Acetone	10 ~~10~~	U ~~U~~	10 ~~10~~	ug/L	08/18/05	clnd
	Carbon disulfide	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethene	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	clnd
	Chloroform	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloroethane	10	U	10	ug/L	08/18/05	clnd
	2-Butanone (MEK)	10	U	10	ug/L	08/18/05	clnd
	1,1,1-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Carbon tetrachloride	10	U	10	ug/L	08/18/05	clnd
	Bromodichloromethane	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloropropane	10	U	10	ug/L	08/18/05	clnd
	cis-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Trichloroethene	10	U	10	ug/L	08/18/05	clnd
	Dibromochloromethane	10	U	10	ug/L	08/18/05	clnd
	1,1,2-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Benzene	10	U	10	ug/L	08/18/05	clnd
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Bromoform	10	U	10	ug/L	08/18/05	clnd
	4-Methyl-2-pentanone (MIEK)	10	U	10	ug/L	08/18/05	clnd
	2-Hexanone	10	U	10	ug/L	08/18/05	clnd
	Tetrachloroethene	10	U	10	ug/L	08/18/05	clnd
	1,1,2,2-Tetrachloroethane	10	U	10	ug/L	08/18/05	clnd
	Toluene	10	U	10	ug/L	08/18/05	clnd
	Chlorobenzene	10	U	10	ug/L	08/18/05	clnd
	Ethylbenzene	10	U	10	ug/L	08/18/05	clnd
	Styrene	10	U	10	ug/L	08/18/05	clnd
	Xylenes (total)	10	U	10	ug/L	08/18/05	clnd
	cis-1,2-Dichloroethene	4 ~~10~~	U	10	ug/L	08/18/05	clnd
	trans-1,2-Dichloroethene	10	U	10	ug/L	08/18/05	clnd

* In Description = Dry Wgt.

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NYSDOH 10142

NYDEC 73015

OTDOHS PA-0554

EPA 81604

PA 68-072

AT-NY049

STL Newburgh
315 Fulton Avenue
Newburgh, NY 12550
Tel (845) 562-0600
Fax (845) 562-0601

10/17/05

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW7D-S

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-005
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081816.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. _____ Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.44	10	3M

R

~~HEB~~
10/17/05

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FORM 1 VOL-TIC

3/01

NYSOCH 10142

NJDEP 73015

CTDOHS Ph 654

EPA NY042

PA 24-378

MD-0730

STL Newburgh
315 ROUTE 9N
Newburgh, NY 12550
Tel: (845) 562-1000
Fax: (845) 562-2000

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Les Gustafson

Customer Sample ID: M/SO-1
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 13:52
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-6
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis						
	Chloromethane	10	U	10	ug/L	08/18/05	dmd
	Bromomethane	10	U	10	ug/L	08/18/05	dmd
	Vinyl chloride	10	U	10	ug/L	08/18/05	dmd
	Chloroethane	10	U	10	ug/L	08/18/05	dmd
	Methylene chloride	10 ~~40~~	U	10	ug/L	08/18/05	dmd
	Acetone	10 ~~33~~	U	10	ug/L	08/18/05	dmd
	Carbon disulfide	10	U	10	ug/L	08/18/05	dmd
	1,1-Dichloroethene	10	U	10	ug/L	08/18/05	dmd
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	dmd
	Chloroform	2 ~~45~~	U	10	ug/L	08/18/05	dmd
	1,2-Dichloroethane	93	U	10	ug/L	08/18/05	dmd
	2-Butanone (MEK)	10	U	10	ug/L	08/18/05	dmd
	1,1,1-Trichloroethane	10	U	10	ug/L	08/18/05	dmd
	Carbon tetrachloride	10	U	10	ug/L	08/18/05	dmd
	Bromodichloroethane	10	U	10	ug/L	08/18/05	dmd
	1,2-Dichloropropane	10	U	10	ug/L	08/18/05	dmd
	cis-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	dmd
	Trichloroethene	10	U	10	ug/L	08/18/05	dmd
	Dibromochloromethane	10	U	10	ug/L	08/18/05	dmd
	1,1,2-Trichloroethane	10	U	10	ug/L	08/18/05	dmd
	Benzene	4 ~~35~~	U	10	ug/L	08/18/05	dmd
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	dmd
	Bromoform	10	U	10	ug/L	08/18/05	dmd
	4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L	08/18/05	dmd
	2-Hexanone	10	U	10	ug/L	08/18/05	dmd
	Tetrachloroethene	10	U	10	ug/L	08/18/05	dmd
	1,1,2,2-Tetrachloroethane	10	U	10	ug/L	08/18/05	dmd
	Toluene	10	U	10	ug/L	08/18/05	dmd
	Chlorobenzene	10	U	10	ug/L	08/18/05	dmd
	Ethylbenzene	10	U	10	ug/L	08/18/05	dmd
	Styrene	10	U	10	ug/L	08/18/05	dmd
	Xylenes (total)	10	U	10	ug/L	08/18/05	dmd
	cis-1,2-Dichloroethene	7 ~~1~~	U	10	ug/L	08/18/05	dmd
	trans-1,2-Dichloroethene	10	U	10	ug/L	08/18/05	dmd
		KBN 10/17/05					

In Description = Dry Wgt.

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NYSOCH 10142

NJDEP 70015

CTOONS PH-004

EPA 821-049

PA 88-075

MI-4Y049

STL Newburgh
 316 Pulberton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0890
 Fax (845) 472-0841

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW9D-1

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-006
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081817.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. _____ Date Analyzed: 8/18/2005
 GC Column: DB-524 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	D
1. 000110-3-3	Hexane	7.45	18	JN

R

KBN
10/17/05

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SEVERN
STL

NYSDOH 10142

NYSDP 70015

CTDOHS PH-0254

EPA 81041

PA 58-373

LI-NY040

STL Newburgh
315 Fulton Avenue
Newburgh, NY 12550
Tel (845) 562-0600
Fax (845) 562-0541

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: MW90-2
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 14:02
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-7
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q-FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
MYSASP 95.1	CLP Volatile Organic Analysis						
	Chloromethane	10	U	10	ug/L	08/19/05	clnd
	Bromomethane	10	U	10	ug/L	08/19/05	clnd
	Vinyl chloride	10	U	10	ug/L	08/19/05	clnd
	Chloroethane	10	U	10	ug/L	08/19/05	clnd
	Methylene chloride	10	U	10	ug/L	08/19/05	clnd
	Acetone	10	U	10	ug/L	08/19/05	clnd
	Carbon disulfide	10	U	10	ug/L	08/19/05	clnd
	1,1-Dichloroethene	10	U	10	ug/L	08/19/05	clnd
	1,1-Dichloroethane	1.3	J	10	ug/L	08/19/05	clnd
	Chloroform	10	U	10	ug/L	08/19/05	clnd
	1,2-Dichloroethane	140	U	10	ug/L	08/19/05	clnd
	2-Butanone (MCK)	10	U	10	ug/L	08/19/05	clnd
	1,1,1-Trichloroethene	10	U	10	ug/L	08/19/05	clnd
	Carbon tetrachloride	10	U	10	ug/L	08/19/05	clnd
	Bromodichloromethane	10	U	10	ug/L	08/19/05	clnd
	1,2-Dichloropropane	10	U	10	ug/L	08/19/05	clnd
	cis-1,3-Dichloropropene	10	U	10	ug/L	08/19/05	clnd
	Trichloroethene	5.3	J	10	ug/L	08/19/05	clnd
	Dibromochloromethane	10	U	10	ug/L	08/19/05	clnd
	1,1,2-Trichloroethane	10	U	10	ug/L	08/19/05	clnd
	Benzene	10	U	10	ug/L	08/19/05	clnd
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/19/05	clnd
	Bromoform	10	U	10	ug/L	08/19/05	clnd
	4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L	08/19/05	clnd
	2-Hexanone	10	U	10	ug/L	08/19/05	clnd
	Tetrachloroethene	10	U	10	ug/L	08/19/05	clnd
	1,1,2,2-Tetrachloroethane	10	U	10	ug/L	08/19/05	clnd
	Toluene	10	U	10	ug/L	08/19/05	clnd
	Chlorobenzene	10	U	10	ug/L	08/19/05	clnd
	Ethylbenzene	10	U	10	ug/L	08/19/05	clnd
	Styrene	10	U	10	ug/L	08/19/05	clnd
	Xylenes (total)	10	U	10	ug/L	08/19/05	clnd
	cis-1,2-Dichloroethene	16	U	10	ug/L	08/19/05	clnd
	trans-1,2-Dichloroethene	10	U	10	ug/L	08/19/05	clnd

10/11/05

* In Description = Dry Wgt.

Page 5
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SEVERN
 TRENT STL

NYSDOH 10542

NJDEP 72016

OTDOKS PH-6664

EPA 816-G-99

PA 65-079

ML-1000

STL Newburgh
 315 Sullivan Avenue
 Newburgh, NY 12550
 Tel: (845) 562-0800
 Fax: (845) 562-0741

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW90 2

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-007
 Sample wt/vol: 5.0 (g/ml) ML _____ Lab File ID: V081907.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. _____ Date Analyzed: 8/19/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC	Q
1. 000110-54-9	Hexane	7.41	7	JN

R

Handwritten:
 10/17/05

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SEVENS-TRENT
STL

NYSDOH 10-42

NJDEP 7000-5

FORMALVOLATICS
STUDIOS PH-0044

EPA 816-010

PA 68-378

M-1010-10

STL Newburgh
 315 Putnam Avenue
 Newburgh, NY 12550
 Tel (845) 562-0950
 Fax (845) 562-0911

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: KATTEC Engineering and Consulting, Inc. PROJECT: 5640032018

ATTN: Les Gustafson

Customer Sample ID: M990-3
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 14:15
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-B
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 821-R	Chloromethane	10	U	10	ug/L	08/18/05	dnd
	Bromomethane	10	U	10	ug/L	08/18/05	dnd
	Vinyl chloride	10	U	10	ug/L	08/18/05	dnd
	Chloroethane	10	U	10	ug/L	08/18/05	dnd
	Methylene chloride	10	U	10	ug/L	08/18/05	dnd
	Acetone	10	U	10	ug/L	08/18/05	dnd
	Carbon disulfide	10	U	10	ug/L	08/18/05	dnd
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	dnd
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	dnd
	Chloroform	10	U	10	ug/L	08/18/05	dnd
	1,2-Dichloroethane	150	U	10	ug/L	08/18/05	dnd
	2-Butanone (MEK)	10	U	10	ug/L	08/18/05	dnd
	1,1,1-Trichloroethane	10	U	10	ug/L	08/18/05	dnd
	Carbon tetrachloride	10	U	10	ug/L	08/18/05	dnd
	Bromodichloromethane	10	U	10	ug/L	08/18/05	dnd
	1,2-Dichloropropane	10	U	10	ug/L	08/18/05	dnd
	cis-1,3-Dichloropropane	10	U	10	ug/L	08/18/05	dnd
	Trichloroethene	5	U	10	ug/L	08/18/05	dnd
	Dibromochloromethane	10	U	10	ug/L	08/18/05	dnd
	1,1,2-Trichloroethane	10	U	10	ug/L	08/18/05	dnd
	Benzene	10	U	10	ug/L	08/18/05	dnd
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	dnd
	Bromoform	10	U	10	ug/L	08/18/05	dnd
	4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L	08/18/05	dnd
	2-Mexanone	10	U	10	ug/L	08/18/05	dnd
	Tetrachloroethane	10	U	10	ug/L	08/18/05	dnd
	1,1,2,2-Tetrachloroethane	10	U	10	ug/L	08/18/05	dnd
	Toluene	10	U	10	ug/L	08/18/05	dnd
	Chlorobenzene	10	U	10	ug/L	08/18/05	dnd
	Ethylbenzene	10	U	10	ug/L	08/18/05	dnd
	Styrene	10	U	10	ug/L	08/18/05	dnd
	Xylenes (total)	10	U	10	ug/L	08/18/05	dnd
	cis-1,2-Dichloroethane	10	U	10	ug/L	08/18/05	dnd
	trans-1,2-Dichloroethane	10	U	10	ug/L	08/18/05	dnd

* In Description = Dry Wgt.

Page 10
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TRENT
STL

MYSO01 10142

NADEP 73015

OTICHS PA-0554

EPA 821-R

PA 90-078

M-NY045

STL Newburgh
 315 Pullerton Avenue
 Newburgh, NY 12550
 Tel (845) 607-0360
 Fax (845) 562-0841

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VV/9D-3

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-008
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081819.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not doc. Date Analyzed: 8/18/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
<u>1, 000110-54-3</u>	<u>Hexane</u>	<u>7.44</u>	<u>0</u>	<u>JN</u>

R

Handwritten: 12/17/05

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SEVERN
TRENT **STL**

NYSDOH 10142

NYDEP 7015

CTDONG PHC/84

EPA NY042

PA 68-376

MA-117043

STL Newburgh
315 Furber Avenue
Newburgh, NY 12550
Tel (845) 562-0800
Fax (845) 562-0811

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/15/2005

CUSTOMER: KATIE Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: KU100-1
Date Sampled.....: 08/10/2005
Time Sampled.....: 15:00
Sample Matrix.....: Water

Laboratory Sample ID: 251041-9
Date Received.....: 08/12/2005
Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	REPORTING LIMIT	UNITS	ANALYZED	RECM
EYSASP 95.1	CLP Volatile Organic Analysis						
	Chloromethane	10	U	10	ug/L	08/18/05	clnd
	Bromomethane	10	U	10	ug/L	08/18/05	clnd
	Vinyl chloride	10	U	10	ug/L	08/18/05	clnd
	Chloroethane	10	U	10	ug/L	08/18/05	clnd
	Methylene chloride	10	U	10	ug/L	08/18/05	clnd
	Acetone	10	U	10	ug/L	08/18/05	clnd
	Carbon disulfide	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethene	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	clnd
	Chloroform	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloroethane	42	U	10	ug/L	08/18/05	clnd
	2-Butanone (MEK)	10	U	10	ug/L	08/18/05	clnd
	1,1,1-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Carbon tetrachloride	10	U	10	ug/L	08/18/05	clnd
	Bromodichloromethane	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloropropane	10	U	10	ug/L	08/18/05	clnd
	cis-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Trichloroethene	10	U	10	ug/L	08/18/05	clnd
	Dibromochloromethane	10	U	10	ug/L	08/18/05	clnd
	1,1,2-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Benzene	10	U	10	ug/L	08/18/05	clnd
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Bromoforn	10	U	10	ug/L	08/18/05	clnd
	4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L	08/18/05	clnd
	2-Hexanone	10	U	10	ug/L	08/18/05	clnd
	Tetrachloroethane	10	U	10	ug/L	08/18/05	clnd
	1,1,2,2-Tetrachloroethane	10	U	10	ug/L	08/18/05	clnd
	Toluene	10	U	10	ug/L	08/18/05	clnd
	Chlorobenzene	10	U	10	ug/L	08/18/05	clnd
	Ethylbenzene	10	U	10	ug/L	08/18/05	clnd
	Styrene	10	U	10	ug/L	08/18/05	clnd
	Xylenes (total)	10	U	10	ug/L	08/18/05	clnd
	cis-1,2-Dichloroethene	1.1	U	10	ug/L	08/18/05	clnd
	trans-1,2-Dichloroethene	10	U	10	ug/L	08/18/05	clnd

* In Description = Dry Wgt.

Page 11
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STL
STL

NYSDOH 10142

NYSDP 73018

CTDOH 24-0554

EPA NY049

PA 26-378

NY NY046

STL Newburgh
215 Fullerton Avenue
Newburgh, NY 12550
Tel: (845) 562-0930
Fax: (845) 562-0941

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW100-1

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: 251041-009

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081820.D

Level: (low/med) LOW Date Received: 8/12/2005

% Moisture: not dec. _____ Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.45	9	JH

Handwritten:
10/17/05

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SEVERN
TRENT

STL

NYSDOH 13942

NJDEP 13916

E01SM1V04.TIC

CTDHHS 740554

EPA 846048

PA 84-378

3/50

STL Newburgh
315 Furman Avenue
Newburgh, NY 12550
Tel (845) 863-0500
Fax (845) 862-0941

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: NACTEC Engineering and Consulting, Inc. PROJECT: 3640330018

ATTN: Lee Ginterman

Customer Sample ID: MW100-2
 Date Sampled: 08/10/2005
 Time Sampled: 15:10
 Sample Matrix: Water

Laboratory Sample ID: 251041-10
 Date Received: 08/12/2005
 Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis						
	Chloromethane	10	U	10	ug/L	08/18/05	clnd
	Bromomethane	10	U	10	ug/L	08/18/05	clnd
	Vinyl chloride	10	U	10	ug/L	08/18/05	clnd
	Chloroethane	10	U	10	ug/L	08/18/05	clnd
	Methylene chloride	10	U	10	ug/L	08/18/05	clnd
	Acetone	10	U	10	ug/L	08/18/05	clnd
	Carbon disulfide	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethene	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	clnd
	Chloroform	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloroethene	55	U	10	ug/L	08/18/05	clnd
	2-Butanone (MEK)	10	U	10	ug/L	08/18/05	clnd
	1,1,1-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Carbon tetrachloride	10	U	10	ug/L	08/18/05	clnd
	Bromodichloromethane	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloropropane	10	U	10	ug/L	08/18/05	clnd
	cis-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Trichloroethene	10	U	10	ug/L	08/18/05	clnd
	Dibromochloromethane	10	U	10	ug/L	08/18/05	clnd
	1,1,2-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Benzene	10	U	10	ug/L	08/18/05	clnd
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Bromoform	10	U	10	ug/L	08/18/05	clnd
	4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L	08/18/05	clnd
	2-Hexanone	10	U	10	ug/L	08/18/05	clnd
	Tetrachloroethene	10	U	10	ug/L	08/18/05	clnd
	1,1,2,2-Tetrachloroethane	10	U	10	ug/L	08/18/05	clnd
	Toluene	10	U	10	ug/L	08/18/05	clnd
	Chlorobenzene	10	U	10	ug/L	08/18/05	clnd
	Ethylbenzene	10	U	10	ug/L	08/18/05	clnd
	Styrene	10	U	10	ug/L	08/18/05	clnd
	Xylenes (total)	10	U	10	ug/L	08/18/05	clnd
	cis-1,2-Dichloroethane	10	U	10	ug/L	08/18/05	clnd
	trans-1,2-Dichloroethane	10	U	10	ug/L	08/18/05	clnd

In Description = Dry Wt.

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TRENT

NYSOCH 10142

NJDEP 73016

STD005 PH0564

EPA 821-G

PA 02 370

M 10149

STL Newburgh
 315 Fulton Avenue
 Newburgh, NY 12550
 Tel (845) 562-0800
 Fax (845) 562-0841

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW10D-2

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: 251041-010

Sample w/vol: 5.0 (g/mL) ML Lab File ID: V081821.D

Level: (low/med) LOW Date Received: 8/12/2005

% Moisture: not dec. Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1 000110-54-9	Hexane	7.43	9	JN

R

KP
10/17/05

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SEVERN
TRENT STL

NY900H 10142

MLDEF 70015

FORM 11/04, T10

C100HS PH4554

EPA 8160-9

PA 68-078

M-JTC49

STL Newburgh
315 Putnam Avenue
Newburgh, NY 12550
Tel (845) 567-0700
Fax (845) 567-0211

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/15/2005

CUSTOMER: MACIEG-Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Les Gustafson

Customer Sample ID: MW100-3
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 15:20
 Sample Matrix.....: Water

Laboratory Sample ID: 251041-11
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSASP 95.1	CLP Volatile Organic Analysis						
	Chloromethane	10	U	10	ug/L	08/18/05	clnd
	Bromomethane	10	U	10	ug/L	08/18/05	clnd
	Vinyl chloride	10	U	10	ug/L	08/18/05	clnd
	Chloroethane	10	U	10	ug/L	08/18/05	clnd
	Methylene chloride	10	U	10	ug/L	08/18/05	clnd
	Acetone	10	U	10	ug/L	08/18/05	clnd
	Carbon disulfide	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethene	10	U	10	ug/L	08/18/05	clnd
	1,1-Dichloroethane	10	U	10	ug/L	08/18/05	clnd
	Chloroform	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloroethane	5.3	U	10	ug/L	08/18/05	clnd
	2-Butanone (MEK)	10	U	10	ug/L	08/18/05	clnd
	1,1,1-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Carbon tetrachloride	10	U	10	ug/L	08/18/05	clnd
	Bromodichloromethane	10	U	10	ug/L	08/18/05	clnd
	1,2-Dichloropropane	10	U	10	ug/L	08/18/05	clnd
	cis-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Trichloroethene	10	U	10	ug/L	08/18/05	clnd
	Dibromochloromethane	10	U	10	ug/L	08/18/05	clnd
	1,1,2-Trichloroethane	10	U	10	ug/L	08/18/05	clnd
	Benzene	10	U	10	ug/L	08/18/05	clnd
	trans-1,3-Dichloropropene	10	U	10	ug/L	08/18/05	clnd
	Bromoform	10	U	10	ug/L	08/18/05	clnd
	4-Methyl-2-pentanone (MIBK)	10	U	10	ug/L	08/18/05	clnd
	2-hexanone	10	U	10	ug/L	08/18/05	clnd
	Tetrachloroethene	10	U	10	ug/L	08/18/05	clnd
	1,1,2,2-Tetrachloroethane	10	U	10	ug/L	08/18/05	clnd
	Toluene	10	U	10	ug/L	08/18/05	clnd
	Chlorobenzene	10	U	10	ug/L	08/18/05	clnd
	Ethylbenzene	10	U	10	ug/L	08/18/05	clnd
	Styrene	10	U	10	ug/L	08/18/05	clnd
	Xylenes (total)	10	U	10	ug/L	08/18/05	clnd
	cis-1,2-Dichloroethene	10	U	10	ug/L	08/18/05	clnd
	trans-1,2-Dichloroethene	10	U	10	ug/L	08/18/05	clnd

10/17/05

* In Description = Dry Wgt.

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SEVERN
 TRENT
 STL

NYS DOH 50142

NJ DEP 70015

CT DOH 28-0554

EPA 8160-G

PA 60-078

MA 8160-G

STL Newburgh
 315 Fulton Avenue
 Newburgh, NY 12550
 Tel (845) 567-0860
 Fax (845) 567-0861

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW130-3

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-011
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VOS1822.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. _____ Date Analyzed: 8/18/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1 000110-54-2	Hexane	7.44	9	JN

R

Kel
10/17/05

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SEVERN
TRENT **STL**

NYSDOH 10142

NYDEP 73015

FORM 1 VOLATILE
OTDONS PH 0164

EPA 813041

PA 62-375

3/00
M-NY0241

STL Newburgh
345 Faxon Avenue
Newburgh, NY 12550
Tel: (845) 562-6787
Fax: (845) 562-6341

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640053018

ATTN: Lee Gustafson

Customer Sample ID: Trip Blank
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 00:00
 Sample Matrix.....: Trip Blank

Laboratory Sample ID: 251041-1
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NY383P 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dnd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Methylene chloride	2.4-5	J		2.0	ug/L	08/17/05	dnd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dnd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dnd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dnd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dnd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dnd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dnd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dnd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dnd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dnd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dnd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dnd
	m,p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dnd
	cis-1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	trans-1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dibromoethane (EDS)	1.0	U		1.0	ug/L	08/17/05	dnd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dnd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dnd

turn 10/17/05

* In Description = Dry Wgt.

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SEVERN
TRENT

STL

NYSDOH 10142

NIEP 73015

CTDONS PHASEA

EPA NYSD

FA 5A-370

M-NYSD

STL Newburgh
 315 Fullerich Avenue
 Newburgh, NY 12550
 Tel 845 565-0990
 Fax 845 565-0941

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: STL Newburgh Contract: _____
Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
Matrix: (soil/water) WATER Lab Sample ID: 251041-001
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081717.D
Level: (low/med) LOW Date Received: 8/12/2005
% Moisture: not dec. _____ Date Analyzed: 8/17/2005
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	7.61	2.6857	JN

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STL

FORM 1/VOA-TIC

3/90

NYSDOH 10142

NJDEP 73015

CTDEHS 24-0584

EPA NY043

PA 68-378

LA-377310

STL Newburgh
216 Hudson Avenue
Newburgh, NY 12550
Tel (845) 562-0800
Fax (845) 562-0811

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Sarney
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 15:53
 Sample Matrix.....: Pdt. Water

Laboratory Sample ID: 251041-12
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
YSAGP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dnd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Methylene chloride	2.0	U		2.0	ug/L	08/17/05	dnd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dnd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dnd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromodichloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dnd
	cis-1,2-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dnd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	Dibromochloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dnd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dnd
	4-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dnd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dnd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dnd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dnd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dnd
	m,p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dnd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dibromoethane (EDS)	1.0	U		1.0	ug/L	08/17/05	dnd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dnd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dnd

10/17/05

In Description = Dry Wgt.

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STL
 THERM

NYSDOH 10142

HLDEP T3015

DTDOHS PH-0554

EPA NY043

PA 65-372

M-WY043

STL Newburgh
 315 Fulton Avenue
 Newburgh, NY 12550
 Tel (845) 362 0800
 Fax (845) 602 0811

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SARNEY

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-012
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081718.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. Date Analyzed: 8/17/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soli Extract Volume: _____ (uL) Soli Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexene	7.00	2.7533	JN

R

Handwritten: 8/17/05

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SEVERN
TRENT **STL**

NYSDOH 10142

NYDEP 29015

FORM 1 VOLATILE

GTDOHS FY-02A

EPA NY049

PA 60 074

W. NY042

STL Newburgh
315 Piedmont Avenue
Newburgh, NY 12550
Tel (914) 582-0500
Fax (914) 582-0501

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3540030518

ATTN: Lee Gustafson

Customer Sample ID: Emerson
 Date Sampled: 08/10/2005
 Time Sampled: 16:10
 Sample Matrix: Pot. Water

Laboratory Sample ID: 251041-13
 Date Received: 08/12/2005
 Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	REPORTING LIMIT	UNITS	ANALYZED	TECH
MSBSP 95.4	CLP Volatile Organic Analysis						
	Chloromethane	1.0	U	1.0	ug/L	08/17/05	clnd
	Bromomethane	1.0	U	1.0	ug/L	08/17/05	clnd
	Vinyl chloride	1.0	U	1.0	ug/L	08/17/05	clnd
	Chloroethane	1.0	U	1.0	ug/L	08/17/05	clnd
	Methylene chloride	2.0	U	2.0	ug/L	08/17/05	clnd
	Acetone	5.0	U	5.0	ug/L	08/17/05	clnd
	Carbon disulfide	1.0	U	1.0	ug/L	08/17/05	clnd
	1,1-Dichloroethene	1.0	U	1.0	ug/L	08/17/05	clnd
	1,1-Dichloroethane	1.0	U	1.0	ug/L	08/17/05	clnd
	Chloroform	1.0	U	1.0	ug/L	08/17/05	clnd
	1,2-Dichloroethane	1.0	U	1.0	ug/L	08/17/05	clnd
	2-Butanone (MEK)	5.0	U	5.0	ug/L	08/17/05	clnd
	1,1,1-Trichloroethane	1.0	U	1.0	ug/L	08/17/05	clnd
	Carbon tetrachloride	1.0	U	1.0	ug/L	08/17/05	clnd
	Bromodichloromethane	1.0	U	1.0	ug/L	08/17/05	clnd
	1,2-Dichloropropane	1.0	U	1.0	ug/L	08/17/05	clnd
	cis-1,3-Dichloropropene	1.0	U	1.0	ug/L	08/17/05	clnd
	Trichloroethene	1.0	U	1.0	ug/L	08/17/05	clnd
	Dibromochloromethane	1.0	U	1.0	ug/L	08/17/05	clnd
	1,1,2-Trichloroethane	1.0	U	1.0	ug/L	08/17/05	clnd
	Benzene	1.0	U	1.0	ug/L	08/17/05	clnd
	trans-1,3-Dichloropropene	1.0	U	1.0	ug/L	08/17/05	clnd
	Bromotom	1.0	U	1.0	ug/L	08/17/05	clnd
	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	ug/L	08/17/05	clnd
	2-Hexanone	5.0	U	5.0	ug/L	08/17/05	clnd
	Tetrachloroethene	1.0	U	1.0	ug/L	08/17/05	clnd
	1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L	08/17/05	clnd
	Toluene	1.0	U	1.0	ug/L	08/17/05	clnd
	Chlorobenzene	1.0	U	1.0	ug/L	08/17/05	clnd
	Ethylbenzene	1.0	U	1.0	ug/L	08/17/05	clnd
	Styrene	1.0	U	1.0	ug/L	08/17/05	clnd
	o-Xylene	1.0	U	1.0	ug/L	08/17/05	clnd
	m,p-Xylenes	1.0	U	1.0	ug/L	08/17/05	clnd
	cis-1,2-Dichloroethene	1.0	U	1.0	ug/L	08/17/05	clnd
	trans-1,2-Dichloroethene	1.0	U	1.0	ug/L	08/17/05	clnd
	Bromochloromethane	1.0	U	1.0	ug/L	08/17/05	clnd
	1,2-Dibromomethane (EDB)	1.0	U	1.0	ug/L	08/17/05	clnd
	1,3-Dichlorobenzene	1.0	U	1.0	ug/L	08/17/05	clnd
	1,4-Dichlorobenzene	1.0	U	1.0	ug/L	08/17/05	clnd
	1,2-Dichlorobenzene	1.0	U	1.0	ug/L	08/17/05	clnd
	1,2-Dibromo-3-chloropropane	1.0	U	1.0	ug/L	08/17/05	clnd
	Vinyl acetate	1.0	U	1.0	ug/L	08/17/05	clnd

* In Description = Dry Wgt.

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SERVIS

NYSDOH 10142

NUDEP 70015

CDOOHG PH-0584

EPA 815-G-04

PA 88-378

M. Knap

STL Newburgh
 315 E. Fulton Avenue
 Newburgh, NY 12550
 Tel: (845) 562-4800
 Fax: (845) 562-0811

KBd 8/17/05

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMERSON

Lab Name: STL Newburgh Contract: _____
 Lab Code: 10142 Case No. _____ SAS No.: _____ SDG No.: 251041
 Matrix: (soil/water) WATER Lab Sample ID: 251041-013
 Sample wt/vol: 5.0 (g/m) ML _____ Lab File ID: V081719.D
 Level: (low/med) LOW Date Received: 8/12/2005
 % Moisture: not dec. _____ Date Analyzed: 8/17/2005
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/l. or ug/Kg) UG/L

Number TICs found 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1 000140-54-3	Hexane	7.61	2.4355	JN

R

Handwritten:
 KBW
 10/17/05

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SEVERN
TIER

STL

NYSDOH 10142

NIDEP 73015

FORM 1/04/05

CDEHS PH0564

EPA NY049

PA 88-373

SA-NY040

STL Newburgh
 315 Fulton Avenue
 Newburgh, NY 12550
 Tel: (845) 205-0850
 Fax: (845) 562-7641

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640330015

ATTN: Lee Gustafson

Customer Sample ID: Hurlbert
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 16:30
 Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-14
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
VYSASP 95.4	CLP Volatile Organic Analysis							
	Chloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromomethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Vinyl chloride	1.0	U		1.0	ug/L	08/17/05	dnd
	Chloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Methylene chloride	2.0	U		2.0	ug/L	08/17/05	dnd
	Acetone	5.0	U		5.0	ug/L	08/17/05	dnd
	Carbon disulfide	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Chloroform	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	2-Butanone (MEK)	5.0	U		5.0	ug/L	08/17/05	dnd
	1,1,1-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Carbon tetrachloride	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromodichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichloropropane	1.0	U		1.0	ug/L	08/17/05	dnd
	cis-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dnd
	Trichloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	Diisomochloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1,2-Trichloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Benzene	1.0	U		1.0	ug/L	08/17/05	dnd
	trans-1,3-Dichloropropene	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromoform	1.0	U		1.0	ug/L	08/17/05	dnd
	3-Methyl-2-pentanone (MIBK)	5.0	U		5.0	ug/L	08/17/05	dnd
	2-Hexanone	5.0	U		5.0	ug/L	08/17/05	dnd
	Tetrachloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,1,2,2-Tetrachloroethane	1.0	U		1.0	ug/L	08/17/05	dnd
	Toluene	1.0	U		1.0	ug/L	08/17/05	dnd
	Chlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	Ethylbenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	Styrene	1.0	U		1.0	ug/L	08/17/05	dnd
	o-Xylene	1.0	U		1.0	ug/L	08/17/05	dnd
	m,p-Xylenes	1.0	U		1.0	ug/L	08/17/05	dnd
	cis-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	trans-1,2-Dichloroethene	1.0	U		1.0	ug/L	08/17/05	dnd
	Bromochloromethane	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dibromoethane (EDB)	1.0	U		1.0	ug/L	08/17/05	dnd
	1,3-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,4-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dichlorobenzene	1.0	U		1.0	ug/L	08/17/05	dnd
	1,2-Dibromo-3-chloropropane	1.0	U		1.0	ug/L	08/17/05	dnd
	Vinyl acetate	1.0	U		1.0	ug/L	08/17/05	dnd

* In Description = Dry Wt.

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 SEVERN
 TRENT STL

NYSDOH 10142

NJDEP 73018

CTDECS PHC/274

EPA NY040

PA 00-373

M-NY040

 STL Newburgh
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 Newburgh, NY 12550
 PH (845) 682-0850
 FAX (845) 682-0811

KBL 10/17/05

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

HURLBERT

Lab Name: STL Newburgh

Contract:

Lab Code: 10142

Case No.:

SAS No.:

SDG No.: 251041

Matrix: (soil/water) WATER

Lab Sample ID: 251041-014

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: V081720.D

Level: (low/med) LOW

Date Received: 8/12/2005

% Moisture: not dec.

Date Analyzed: 8/17/2005

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1, 000110-54-3	Hexane	7.61	2.3457	JN

R

KPM
10/17/05

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SEVERN
TRENT STL

NYSDOH 10142

HLDER 73015

FORM 1 VOLATILE

CDOHS PH-0554

EPA NY-049

PA 66-579

AL-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel: (845) 562-4150
Fax: (845) 562-0341

LABORATORY TEST RESULTS

Job Number: 251041

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Lee Gustafson

Customer Sample ID: Taylor
Date Sampled: 08/10/2005
Time Sampled: 16:52
Sample Matrix: Pot. Water

Laboratory Sample ID: 251041-15
Date Received: 08/12/2005
Time Received: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NY686P 95.4	CEP Volatile Organic Analysis						
	Chloromethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Bromomethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Vinyl chloride	1.0	U	1.0	ug/L	08/18/05	clnd
	Chloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Methylene chloride	2.0	U	2.0	ug/L	08/18/05	clnd
	Acetone	5.0	U	5.0	ug/L	08/18/05	clnd
	Carbon disulfide	1.0	U	1.0	ug/L	08/18/05	clnd
	1,1-Dichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,1-Dichloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Chloroform	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dichloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	2-Butanone (MEK)	5.0	U	5.0	ug/L	08/18/05	clnd
	1,1,1-Trichloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Carbon tetrachloride	1.0	U	1.0	ug/L	08/18/05	clnd
	Bromodichloromethane	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dichloropropene	1.0	U	1.0	ug/L	08/18/05	clnd
	cis-1,3-Dichloropropene	1.0	U	1.0	ug/L	08/18/05	clnd
	Trichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	Dibromochloromethane	1.0	U	1.0	ug/L	08/18/05	clnd
	1,1,2-Trichloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Benzene	1.0	U	1.0	ug/L	08/18/05	clnd
	trans-1,3-Dichloropropene	1.0	U	1.0	ug/L	08/18/05	clnd
	Bromoform	1.0	U	1.0	ug/L	08/18/05	clnd
	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	ug/L	08/18/05	clnd
	2-Hexanone	5.0	U	5.0	ug/L	08/18/05	clnd
	Tetrachloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Toluene	1.0	U	1.0	ug/L	08/18/05	clnd
	Chlorobenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	Ethylbenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	Styrene	1.0	U	1.0	ug/L	08/18/05	clnd
	o-Xylene	1.0	U	1.0	ug/L	08/18/05	clnd
	m,p-Xylenes	1.0	U	1.0	ug/L	08/18/05	clnd
	cis-1,2-Dichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	trans-1,2-Dichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	Bromochloromethane	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dibromoethane (EDB)	1.0	U	1.0	ug/L	08/18/05	clnd
	1,3-Dichlorobenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,4-Dichlorobenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dichlorobenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dibromo-3-chloropropane	1.0	U	1.0	ug/L	08/18/05	clnd
	Vinyl acetate	1.0	U	1.0	ug/L	08/18/05	clnd

* In Description = Dry wt.

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STL
STL

NYSDOH 10142

NYSDOH 73014

NYSDOH 94054

EPA NY686

PA 68-271

M-NY686

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Fax (845) 582-0541

10/17/05

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TAYLOR

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SDG No.: 251041

Matrix (soil/water): WATER Lab Sample ID: 251041-015

Sample wt/vol. 5.0 (g/ml) M Lab File ID: V081721.D

Level: (low/mid) LOW Date Received: 8/12/2005

% Moisture: not dec. Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-2	Hexane	7.51	2.2811	IN

Handwritten: #Bn 10/17/05

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SERIES
PRINT STL

MSDCR 10142

RUBER 75015

FORM 100A-10

OTODHS 814-0514

EPA 817-049

FA 50-378

3/90
24-ATC42

STL Newburgh
315 Tuller Avenue
Newburgh, NY 12550
Tel (845) 502-0950
Fax (845) 502-0911

Job Number: 251041

LABORATORY TEST RESULTS

Date: 09/12/2005

CUSTOMER: MACTEC Engineering and Consulting, Inc. PROJECT: 3640030018

ATTN: Loh Gustafson

Customer Sample ID: 151 BAW
 Date Sampled.....: 08/10/2005
 Time Sampled.....: 17:10
 Sample Matrix.....: Pot. Water

Laboratory Sample ID: 251041-16
 Date Received.....: 08/12/2005
 Time Received.....: 09:45

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
NYSDSP 95.4	CLP Volatile Organic Analysis						
	Chloromethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Bromomethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Vinyl chloride	1.0	U	1.0	ug/L	08/18/05	clnd
	Chloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Methylene chloride	2.0	U	2.0	ug/L	08/18/05	clnd
	Acetone	5.0	U	5.0	ug/L	08/18/05	clnd
	Carbon disulfide	1.0	U	1.0	ug/L	08/18/05	clnd
	1,1-Dichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,1-Dichloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Chloroform	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	2-Butanone (MEK)	5.0	U	5.0	ug/L	08/18/05	clnd
	1,1,1-Trichloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Carbon tetrachloride	1.0	U	1.0	ug/L	08/18/05	clnd
	Bromodichloromethane	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dichloropropane	1.0	U	1.0	ug/L	08/18/05	clnd
	cis-1,3-Dichloropropane	1.0	U	1.0	ug/L	08/18/05	clnd
	Trichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	Dibromochloromethane	1.0	U	1.0	ug/L	08/18/05	clnd
	1,1,2-Trichloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Benzene	1.0	U	1.0	ug/L	08/18/05	clnd
	trans-1,3-Dichloropropane	1.0	U	1.0	ug/L	08/18/05	clnd
	Bromoform	1.0	U	1.0	ug/L	08/18/05	clnd
	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	ug/L	08/18/05	clnd
	2-Hexanone	5.0	U	5.0	ug/L	08/18/05	clnd
	Tetrachloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L	08/18/05	clnd
	Toluene	1.0	U	1.0	ug/L	08/18/05	clnd
	Chlorobenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	Ethylbenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	Styrene	1.0	U	1.0	ug/L	08/18/05	clnd
	p-Xylene	1.0	U	1.0	ug/L	08/18/05	clnd
	m,p-Xylenes	1.0	U	1.0	ug/L	08/18/05	clnd
	cis-1,2-Dichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	trans-1,2-Dichloroethene	1.0	U	1.0	ug/L	08/18/05	clnd
	Bromochloromethane	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dibromoethane (EDB)	1.0	U	1.0	ug/L	08/18/05	clnd
	1,3-Dichlorobenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,4-Dichlorobenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dichlorobenzene	1.0	U	1.0	ug/L	08/18/05	clnd
	1,2-Dibromo-3-chloropropane	1.0	U	1.0	ug/L	08/18/05	clnd
	Vinyl acetate	1.0	U	1.0	ug/L	08/18/05	clnd

* In Description = Dry Wgt.

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TRENT STL

NYSDSP 95.4

NJDEP 33015

CTDOHS PH-062

EPA NY245

PA 90-375

M-NY245

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KBR 10/17/05

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

151 BHR

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: _____ SAS No.: _____ SOG No.: 251041

Matrix: (soil/water) WATER Lab Sample ID: 251041-016

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: V081722.D

Level: (low/med) LOW Date Received: 8/12/2005

% Moisture: not dec. _____ Date Analyzed: 8/18/2005

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/LNumber TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
<u>1 000110-54-3</u>	<u>Hexane</u>	<u>7.60</u>	<u>2.263</u>	<u>IN</u>

R

Handwritten:
10/17/05

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TRENT

STL

FORM 1 VOLATILE

3/90

NY9004 10/42

NJ25P 3/916

CTDCHS PH-554

EPA NY049

PA 90-173

IA-NY049

STL Newburgh
315 Pullman Avenue
Newburgh, NY 12550
Tel: (845) 537-0800
Fax: (845) 537-0911

ATTACHMENT C

SDG No. 251041

**Region II SOP HW-6 (Rev. 11)
CHECKLIST**

Volatiles in Water Samples

1

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STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

PACKAGE COMPLETENESS AND DELIVERABLES

CASE NUMBER: 251041 LABORATORY: STL NEWBURGH
SITE NAME: SARNEY FARM SDG Number(s): 251041

1.0 Chain of Custody and Sampling Trip Reports

- 1.1 Are the Traffic Reports/Chain-of-Custody Records present for all samples? ✓ ✓

ACTION: If no, contact RSUC or the lab to obtain replacement of missing or illegible copies.

- 1.2 Is the Sampling Trip Report present for all samples and all fractions? 11 ✓

ACTION: If no, contact either RSUC or ask the prime contractor to provide this information.

2.0 Data Completeness and Deliverables

- 2.1 Have any missing deliverables been received and added to the data package? ✓

NOTE: The lab is required to submit data for only two analyses, for each fraction. (i.e., the original sample and one dilution, or the most concentrated dilution analyzed and one further dilution.)

ACTION: Contact the lab to obtain an explanation or resubmittal of any missing deliverables. If lab cannot provide them, note the effect on the review of the package in the Contract Problems/Non-compliance section of the Data Assessment and the Organic Regional Data Assessment Summary form.

- 2.2 Was CLASS CCS checklist included with package? 11 ✓

- 2.3 Are there any discrepancies between the Traffic Reports/Chain-of-Custody Records, Sampling Report

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

and Sample Tags?

ACTION: If yes, contact the lab to obtain an explanation or resubmittal of any missing deliverables.

3.0 Cover Letter SDG Narrative

3.1 Is the Narrative or Cover Letter Present?

3.2 Are case number, SDG number and contract number contained in the SDG Narrative or cover letter (see SOW, Exhibit B, section 2.6.1)?

3.3 Does the narrative contain the following information:

VOA: description of trap and columns used during sample analyses?

Column on Forms -

BNA: description of columns used during sample analyses?

Pest: description of columns used during sample analyses?

NOTE: As per section 6.23.3.1 SOW/p. D-11/Pest, Packed columns are not permitted.

3.4 Does the narrative, VOA and BNA sections, contain a list of all TICs identified as alkanes and their estimated concentrations?

3.5 Does the narrative contain a record of all cooler temperatures? If the temperature of a cooler was exceeded, > 10° C, the lab must list by fraction and sample number, all affected samples.

ON COC - RECORDS -

3.6 Does the narrative contain a list of the pH values determined for each water sample submitted for volatile analysis (SOW Exhibit B, section 2.6.1.2)?

PROVIDED ON VOA-SUMMARY FOR PH -

3.7 Does the Case Narrative contain the statement, "verbatim", as required in Section B of the SOW?

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLMO3.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

ACTION: If "No", to any question in this section, contact the lab to obtain all necessary resubmittals. If information is not available, document in the Data Assessment under Contract Problems/Non-Compliance section.

NOTE - NARRATIVE -

*READS " %D of the following compound =
IS OUTSIDE the CLV CRITERIA "
except NO compounds LISTED.*

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

4.0 Data Validation Checklist

4.1 Check the package for the following discrepancies:

- a. Is the package paginated in ascending order starting from the SOG narrative? ☒ ☐ ☐
- b. Are all forms and copies legible? ☒ ☐ ☐
- c. Is each fraction assembled in the order set forth in the SOW? ☒ ☐ ☐
HOWEVER: STORAGE BLANKS + VOA ph - submitted SEPARATELY
- d. Is a Sample Data Summary Package submitted immediately preceding the Sample Data Package? ☒ ☐ ☐

The following checklist is divided into three parts. Part A is for any VOA analyses, Part B is for BNAs and Part C is Pesticide/PCBs.

Does this package contain:

VOA Data?	☒	☐
BNA Data?	☐	☒
Pesticide/PCB data?	☐	☒

ACTION: Complete corresponding parts of checklist.

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

PART A: VOA ANALYSES

1.0 Sample Conditions/Problems

- 1.1 Do the Traffic Reports/Chain-of-Custody Records, Sampling Report or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data? IV

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50% - 90% water, all data should be flagged as estimated (J). If a soil sample other than TCLP contains more than 50% water, all data should be qualified as unusable (R).

ACTION: If samples were not iced or the ice was melted upon arrival at the laboratory and the cooler temperature was elevated ($> 10^{\circ}\text{C}$), then flag all positive results with a "J" and all non-detects "DU".

ACTION: If both VOA vials for a sample have air bubbles or the VOA vial analyzed had air bubbles, flag all positive results "J" and all non-detects "R".

ACTION: The smallest soil size permitted is 0.5g. If any soil sample is smaller than 0.5g, document in the Data Assessment under Contract Problems/Non-Compliance.

2.0 Holding Times

- 2.1 Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded? IV

Technical Holding Times: If unpreserved, aqueous samples, maintained at 4°C for aromatic hydrocarbons analysis must be analyzed within 7 days of collection. If preserved with HCl ($\text{pH} < 2$) and stored at 4°C , then aqueous samples must be analyzed within 14 days of collection. If uncertain about

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

preservation, contact sampler to determine whether or not samples were preserved. The holding time for soils is 10 days from date of collection.

Table of Holding Time Violations
(See Chain-of-Custody Records)

Sample ID	Sample Matrix	Was Sample Preserved?	Date Sampled	Date Lab Received	Date Analyzed
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

ACTION: If technical holding times are exceeded, flag all positive results as estimated "J" and sample quantitation limits as estimated "UJ", and document in the Data Assessment that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all results must be qualified "J", but the reviewer may determine that non-detect data are unusable "R". If holding times are exceeded by more than 28 days, all non detect data are unusable "R".

NOTE: Contractual Holding Times: Analysis of water and soil/sediment samples must be completed within 10 days of Validated Time of Sample Receipt (VTSR). This requirement does not apply to Performance Evaluation (PE) samples.

STANDARD OPERATING PROCEDURE

US EPA Region II

Method: CLP/SOW OLM03.2

Date: June 1990

SOP HW-6, Rev. 1:

YES NO N/A

ACTION: If contractual holding times are exceeded,
document in the Data Assessment and on the
Organic Regional Data Assessment Summary form.

NOTE: The data reviewer must note in the Data Assessment
whether or not technical and contractual holding
times were met.

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

3.0 System Monitoring Compound (SMC) Recovery (Form II)

3.1 Are the VOA SMC Recovery Summaries (Form II) present for each of the following matrices:

a. Low Water?

OK
OKM >

☒ ☐ ☐

b. Low Soil?

☐ ☐ ☒

c. Med Soil?

☐ ☐ ☒

3.2 Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:

a. Low Water?

☒ ☐ ☐

b. Low Soil?

☐ ☐ ☒

c. Med Soil?

☐ ☐ ☒

ACTION: Contact the lab to obtain an explanation or resubmittal of any missing deliverables. If missing deliverables are unavailable, document the effort in the Data Assessment.

3.3 Were outliers marked correctly with an asterisk?
ACTION: Circle all outliers with red pencil.

☐ ☐ ☒

3.4 Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?

☐ ☒ ☐

If yes, were samples re-analyzed?

☐ ☐ ☒

Were method blanks re-analyzed?

☐ ☐ ☒

ACTION: If recoveries are $\geq 10\%$, but 1 or more compounds fail to meet SOW specifications:

1. All positive results are qualified as estimated "J".

2. Flag all non-detects as estimated detection limits "UD" where recovery is less than the

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

lower acceptance limit.

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLMC3.2

Date: June 1990
SOP HW-6, Rev. 1

YES NO N/A

3. If SMC recoveries are above allowable levels, do not qualify non-detects.

If any system monitoring compound recovery is < 10%:

1. Flag all positive results as estimated "J".

2. Flag all non-detects as unusable "R".

Professional judgement should be used to qualify data that only have method blank SMC recoveries out of specification in both original and re-analyses. Check the internal standard areas.

NOTE: Contractual requirements state that if any SMC fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance and in the Organic Regional Data Assessment Summary.

NOTE: The laboratory must submit the following data:

1. If SMC recoveries and internal standard responses meet the acceptance criteria in the re-analyzed sample, then the laboratory must submit only the re-analysis.

2. If an SMC recovery and/or internal standard response fails to meet the acceptance criteria upon re-analysis, then submit data from both analyses.

(Refer to section 11.4.3.2, page D-46/VOA of the SOW for more information.)

3.5 Are there any transcription/calculation errors between raw data and Form II?

ACTION: If large errors exist, contact the lab to obtain an explanation or resubmittal of corrected deliverables. Make any necessary corrections and note the effect in the Data

STANDARD OPERATING PROCEDURE

US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

Assessment.

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YES NO N/A

4.0 Matrix Spikes (Form III)

- 4.1 Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?

☒ ☐ ☐

- 4.2 Were matrix spikes analyzed at the required frequency for each of the following matrices:

a. Low Water?

OKC
OKM

☒ ☐ ☐

b. Low Soil?

☐ ☐ ☒

c. Med Soil?

☐ ☐ ☒

ACTION: If any matrix spike data are missing, take the action specified in section 3.2 above.

- 4.3 How many VOA spike recoveries are outside QC limits?

Water

Soils

0 out of 10

1 out of 10

- 4.4 How many RPDs for matrix spike and matrix spike duplicate recoveries are outside QC limits?

Water

Soils

0 out of 5

1 out of 5

ACTION: No action is taken based upon MS/MSD data alone. However, using informed professional judgement, the MS/MSD results may be used in conjunction with other QC criteria to determine the need for qualification of the data.

ACTION: Circle all outliers with red pencil.

5.0 Blanks (Form IV)

- 5.1 Is the Method Blank Summary (Form IV) present?

☒ ☐ ☐

- 5.2 Frequency of Analysis: for the analysis of VOA

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YES NO N/A

ICL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil or medium soil), whichever is more frequent?

☒ ☐ ☐

- 5.3 Has a VOA method blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?

☒ ☐ ☐

- 5.4 Was a VOA instrument blank analyzed after each sample/dilution which contained a target compound that exceeded the initial calibration range?

☒ ☐ ☐

- 5.5 Was a VOA storage blank analyzed at the end of all samples for each SDG in a case?

☒ ☐ ☐

(2) + OLC
ACTION: If any method/instrument blank data are missing, contact the lab to obtain any missing deliverables. If method blank data are not available, reject "3" all associated positive data. However, using professional judgement, the data reviewer may substitute field blank or trip blank data for missing method blank data.

If any instrument blank analyzed after a sample with high concentration is missing, contact the lab to obtain any missing deliverables. If the instrument blank was not analyzed or not available, inspect the chromatogram of the sample analyzed immediately after this analysis for possible carryover. Use professional judgement to determine if any contamination occurred and qualify analyte(s) accordingly.

If storage blank data is missing, contact the lab to obtain any missing deliverables. If unavailable, note in the Contract Problems/Non-Compliance section of the Data Assessment.

- 5.6 The validator should verify that the correct identification scheme for the EPA Blank samples were used. See page B-33, section 3.3.7.3 of the SOW for further information.

Was the correct identification scheme used for

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YES NO N/A

all VOA blanks?

☒ ☐ ☐

ACTION: Contact the lab to obtain missing deliverables, or make the required corrections on the forms. Document in the Data Assessment under Contract Problems/Non-compliance if corrections were made by the validator.

5.7 Chromatography: review the blank raw data-chromatograms (BICs), quant. reports or data system printouts and spectra. Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?

☒ ☐ ☐

ACTION: Use professional judgement to determine the effect on the data.

5.8 Are all detected hits for target compounds in method, instrument and storage blanks less than the CRQL for that analyte?

☒ ☐ ☐

Exception: Acetone and 2-butanone must be less than 5 times the CRQL, and methylene chloride must be less than 2.5 times its CRQL.

ACTION: If no, an explanation and laboratory's corrective actions must be addressed in the case narrative. If the narrative contains no explanation, then make a note in the Contract Problems/Non-Compliance section of the Data Assessment.

6.0 Contamination

NOTE: "Water blanks", "drill blanks", and "distilled water blanks" are validated like any other sample, and are not used to qualify data. Do not confuse them with the other QC blanks discussed below.

6.1 Do any method/instrument/reagent/storage blanks have positive results (TCL and/or TIC) for VOAs?

☒ ☒ ☐

NOTE: When applied as directed in the table below, the contaminant concentration in these blanks are

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YES NO N/A

multiplied by the sample dilution factor and corrected for moisture when necessary.

NOTE: A contaminated instrument blank is not allowable under this SOW. See page D-48/VOA, section 12.1.2.4 for additional information. Document in the Data Assessment under Contract Problems/Non-Compliance if contaminated instrument blank was submitted.

6.2 Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?

ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.)

NOTE: All field blank results associated with a particular group of samples (may exceed one per case) must be used to qualify data. Trip blanks are used to qualify only those samples with which they were shipped and are not required for non-aqueous matrices. Blanks may not be qualified because of contamination in another blank. Field Blanks & Trip Blanks must be qualified for system monitoring compound, instrument performance criteria, spectral or calibration QC problems.

ACTION: Follow the directions in the table below to qualify TCL results due to contamination. Use the largest value from all the associated blanks. If any blanks are grossly contaminated, all associated data should be qualified as unusable "R".

For:	Flag sample result with a "U" when:	Report CRQL & qualify "U" when:	No qualification is needed when:
Methylene Chloride Acetone Toluene	Sample conc. is > CRQL, but $\leq 10\times$ blank value.	Sample conc. is < CRQL and $\leq 10\times$ blank value.	Sample conc. is > CRQL and > $10\times$ blank value.

Case # 251041

Method BLANK

OLM: VBLK018 Conc. Action Limit

Acetone 5.3 53

2-Butanone 3.6 318

4-methy-2-pent. 1.9 9.5

TICS - ϕ

2. VBLK019

Acetone 3.1 31

TIC Hexane 1 35

3. VBLK017

ϕ

TIC Hexane 2.0 10

FB (OLM)

Methylene chl. 2.0 20

TIC, Hexane 2.2 110

TB

Methylene chl. 2.0 20

TIC Hexane 2.2 11

- QUALIFY LESS than reporting LIMIT ALL RESULTS for Acetone & Methylene chl. Samples where detected.
- REJECT - Hexane (TIC) in all samples.

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YES NO N/A

2-Butanone

Other Conta- minants	Sample conc. is > CROL, but $\leq 5\times$ blank value.	Sample conc. is < CROL and $\leq 5\times$ blank value.	Sample conc. is > CROL and $> 5\times$ blank value.

NOTE: Analytes qualified "U" for blank contamination are still considered as "hits" when qualifying for calibration criteria.

ACTION: For TIC compounds, if the concentration in the sample is less than five times the concentration in the most contaminated associated blank, flag the sample data "R".

6.3 Are there field/rinse/equipment blanks associated with every sample?

☒ ☐ ☐

ACTION: For low level samples, note in the Data Assessment that there is no associated field/rinse/equipment blank. For samples with high concentrations of suspected blank contaminants, use professional judgement to qualify these values and make a note in the Data Assessment.

Exception: samples taken from a drinking water tap do not have associated field blanks.

7.0 GC/MS Instrument Performance Check (Form V)

7.1 Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?

☒ ☐ ☐

7.2 Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?

☒ ☐ ☐

7.3 Has an instrument performance check been analyzed for every analytical sequence on each instrument?

☒ ☐ ☐

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YES NO N/A

ACTION: List date, time, instrument ID, and sample numbers for which associated GC/MS tuning data are unavailable.

DATE	TIME	INSTRUMENT	SAMPLE NUMBERS

ACTION: Notify the lab to obtain missing data, if possible. If the lab cannot provide the missing data, reject, "R", all data generated outside an acceptable twelve hour calibration interval.

7.4 Have the ion abundances been normalized to m/z 95 as specified in Exhibit D, page D-56/VCA? ☒

NOTE: All ion abundance ratios must be normalized to m/z 96, the nominal base peak, even though the ion abundance of m/z 174 may be up to 120% that of m/z 95.

ACTION: If mass assignment is in error, qualify all associated data as unusable "R".

7.5 Have the ion abundance criteria been met for each instrument used? ☒

ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet).

ACTION: If ion abundance criteria are not met, the Region II TPO must be notified.

7.6 Are there any transcription/calculation errors between mass lists and Form Vs? (Check at least two values, but if errors are found check more.) ☒

7.7 Is the number of significant figures for the reported relative abundances consistent with the number given for each ion in the ion abundance ☒

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YES NO N/A

criteria column?

☒ ☐ ☐

ACTION: If large errors exist, take action as specified in section 3.5 above.

7.8 Are the spectra of the mass calibration compound acceptable?

☒ ☐ ☐

ACTION: Use professional judgment to determine whether associated data should be accepted, qualified, or rejected.

8.0 Target Compound List (TCL) Analytes (FORM I VOA)

8.1 Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:

a. Samples and/or fractions as appropriate?

☒ ☐ ☐

b. Matrix spikes and matrix spike duplicates?

☒ ☐ ☐

c. Blanks?

☒ ☐ ☐

8.2 Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant. reports) included in the sample package for each of the following:

a. Samples and/or fractions as appropriate?

☒ ☐ ☐

b. Matrix spikes and matrix spike duplicates (mass spectra not required)?

☒ ☐ ☐

c. Blanks?

☒ ☐ ☐

ACTION: If any data are missing, take action specified in 3.2 above.

8.3 Are the response factors shown in the quant. report?

SHOWN ON FORM VI SUMMARY

☐ ☒ ☐

8.4 Is chromatographic performance acceptable with

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YES NO N/A

respect to:

a. Baseline stability?

☐ ☐ ☐

b. Resolution?

☒ ☐ ☐

c. Peak shape?

☒ ☐ ☐

d. Full-scale graph (attenuation)?

☒ ☐ ☐

e. Other: _____?

☒ ☐ ☐

ACTION: Use professional judgement to determine the acceptability of the data.

8.5 Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?

☒ ☐ ☐

Small print on compound identification unreadable
ACTION: If any mass spectra are missing, take action as specified in 3.2 above. If the lab does not generate its own standard spectra, document in the Contract Problems/Non-compliance section of the Data Assessment and the Organic Regional Data Assessment Summary.

*(TEXT)
for 2nd
Displayed
input*

8.6 Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?

☒ ☐ ☐

8.7 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?

☒ ☐ ☐

8.8 Do sample and standard relative ion intensities agree within $\pm 20\%$?

☒ ☐ ☐

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected "R", flagged "N" (presumptive evidence of the presence of the compound) or changed to not detected "U" at the calculated detection limit. In order to be positively identified, the data must comply

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YES NO N/A

with the criteria listed in 8.6, 8.7, and 8.8.

ACTION: When sample carry-over is suspected, use professional judgement determine if instrument cross-contamination has affected positive compound identifications.

9.0 Tentatively Identified Compounds (TIC)

9.1 Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?

☒ ☐ ☐

9.2 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:

a. Samples and/or fractions as appropriate?

☒ ☐ ☐

b. Blanks?

☒ ☐ ☐

c. Alkanes listed for each sample?

☒ ☐ ☒

ACTION: If any TIC data are missing, take action specified in 3.2 above.

ACTION: Add "JN" qualifier to all chemically named TICs, if missing.

9.3 Are any TCL compounds (from any fraction) listed as TIC compounds? (Example: 1,2- dimethylbenzene is xylene, a VOC TCL analyte, and should not be reported as a TIC.)

☐ ☒ ☐

ACTION: Flag with "R" any TCL compound listed as a TIC.

9.4 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?

☒ ☐ ☐

9.5 Do TIC and "best match" standard relative ion intensities agree within $\pm 20\%$?

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YES NO N/A

☒

ACTION: Use professional judgement to determine the acceptability of PIC identifications. If it is determined an incorrect identification was made, change the identification to "unknown," or to some less specific identification as appropriate. (Example: "C3 substituted benzene.")

Also, when a compound is not found in any blank, but is detected in a sample and is a suspected artifact of a common laboratory contaminant, the result should be qualified as unusable "R". (E.g., Common Lab Contaminants: CO₂ (M/E 44), siloxanes (M/E 73) hexane, aldol condensation products, solvent preservatives, and related by-products - see the National Functional Guidelines for further guidance.)

- 9.6 Are PICs with responses < 10% of the internal standard (as determined by inspection of the peak areas or height) reported? ☒

ACTION: If yes, cross out questionable TIC(s).

10.0 Compound Quantitation and Reported Detection Limits

- 10.1 Are there any transcription/calculation errors in Form I results? (Check at least two positive values. Verify that the correct internal standards, quantitation ions, and RRF were used to calculate Form I results.) ☒

- 10.2 Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture? ☒

ACTION: If errors are large, take action as specified in section 3.5 above.

ACTION: When a sample is analyzed at more than one dilution, the lowest CRQLs are used (unless a QC exceedance dictates the use of the higher CRQL data from the diluted sample). Replace concentrations that exceeded the calibration

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SOP HW-6, Rev. 11

YES NO N/A

range in the original analysis by crossing out the "E" and its corresponding value on the original Form I and substituting the data from the diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form I is not to be used, including any in the data summary package.

*Done for
2 samples
MW7D-D
MW7D-D/DDP*

11.0 Standards Data (GC/MS)

11.1 Are the Reconstructed Ion Chromatograms, and data system printouts (quant. reports) present for each initial and continuing calibration?

✓

ACTION: If any calibration standard data are missing, take action specified in 3.2 above.

12.0 GC/MS Initial Calibration (Form VI)

12.1 Are the Initial Calibration Forms (Form VI) present and complete at concentrations of 10, 20, 50, 100, 200ng for separate calibrations of low water/mud soils (unheated purge) and low soils (heated purge)?

✓

OLC - 1, 2, 5, 10, 25

ACTION: If any calibration standard forms are missing, take action specified in 3.2 above.

12.2 Were all low level soil standards, blanks and samples analyzed by heated purge?

✓

ACTION: If low level soil samples were not heated during purge, qualify positive hits "J" (estimated) and non-detects "R".

12.3 Are the % relative standard deviation (%RSD) values for VOAs $\leq 30\%$ over the concentration range of the calibration?

✓

OLM-OKAY - OLC - VINYL ACETATE @ 34.621

NOTE: Although 11 VOA compounds have a contractual minimum RRE and no maximum %RSD, the technical acceptance criteria are the same for all analytes.

ACTION: Circle all outliers with red pencil.

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Method: CLP/SOW OLMO3.2

Date: June 1994
SOP HW-6, Rev. 11

YES NO N/A

ACTION: If $\%RSD$ is $> 30.0\%$, qualify associated positive results for that analyte "J" (estimated) and non-detects using professional judgement. When $\%RSD$ is $> 90\%$, flag all non-detects for that analyte "R" (unusable) and positive hits "J".

NOTE: Analytes previously qualified "U" for blank contamination are still considered as "hits" when qualifying for initial calibration criteria.

12.4 Are any average RRFs < 0.05 ?

ACTION: Circle all outliers with red pencil.

ACTION: If the average RRF is < 0.05 , then qualify associated non-detects with an "R" and flag associated positive data as estimated "J".

OLM-No - OLC - Acetone (0.014), 2-Butanone (0.019)

NOTE: Contract Requirement: The SOW allows up to two of the required analytes to fail contractual $\%RSD$ or RRF criteria, provided the $\%RSD$ is $\leq 40\%$ and RRF is > 0.010 . (See Table 5, page D 59/VOA and analytes marked with a "+" on Form VI for required analytes and contractual criteria.) Technical criteria, however, are the same for all analytes.

1,2-DCBP
(0.042)

DATA
Acceptable
since
%RELATIONS
in MSB &
MS/MSD
Acceptable

ACTION: If more than two analytes failed $\%RSD$ or RRF criteria, document in the Data Assessment under Contract Problems/Non-Compliance and the Organic Regional Data Assessment Summary.

12.5 Are there any transcription/calculation errors in the reporting of average relative response factors (RRF) or $\%RSD$? (Check at least 2 values, but if errors are found, check more.)

ACTION: Circle errors with red pencil.

ACTION: If errors are large, contact the lab to obtain an explanation/resubmittal, document in the Data Assessment under Contract Problems/Non-Compliance, and in the Organic Regional Data Assessment Summary.

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US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

13.0 GC/MS Continuing Calibration (Form VII)

13.1 Are the Continuing Calibration Forms (Form VII) present and complete for separate calibration of low water/med soil and low soil samples?

☒ ☐ ☐

13.2 Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?

☒ ☐ ☐

ACTION: If any forms are missing or no continuing calibration standard has been analyzed within twelve hours of every sample analysis, contact the Lab to request an explanation/resubmittal. If continuing calibration data are not available, flag all associated sample data as unusable "R".

ACTION: List below all sample(s) that were not analyzed within twelve hours of the previous continuing calibration.

13.3 Do any volatile compounds have a percent difference (%D) between the initial and continuing RRF which exceeds the $\pm 25\%$ criteria?

☒ ☐ ☐

NOTE: Although 11 VOC compounds have a contractual minimum RRF and no maximum %D, the technical acceptance criteria are the same for all analytes.

ACTION: Circle all outliers with red pencil.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated. When %D is $> 20\%$, qualify all non-detects for that analyte unusable (R) and positive results

OLM. Carbon disulfide (-25.6) ²⁷ - Bromoform (-27.1)
bromodichloromethane (-35.1)

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US EPA Region II
Method: CLP/SOW OLM03.2

Date: June 1996
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YES NO N/A

estimated (3).

— ☒ —

13.4 Are any continuing calibration RRFs < 0.05 ?

ACTION: Circle all outliers with red pencil.

ACTION: If the RRF is < 0.05 , qualify the associated non-detects as unusable "R" and the associated positive values "Q".

NOTE: Contract Requirements: The SOW allows up to two of the required analytes to fail contractual %D and RRF criteria, provided that the %D is $\leq 40\%$ and the RRF is > 0.010 . (See Table 5 pg. D-59/VOA or analytes marked with a "." on Form VI for required analytes.) Technical criteria, however, are the same for all analytes.

ACTION: If more than two analytes failed %D and RRF, criteria document in the Data Assessment under contract Problems/Non-Compliance and on the Organic Regional Data Assessment Summary form.

13.5 Are there any transcription/calculation errors in the reporting of RRF or %D between initial and continuing RRFs? (Check at least two values, but if errors are found, check more.)

— ☒ —

ACTION: Circle errors with red pencil.

ACTION: If errors are large, contact the lab to obtain an explanation/resubmittal, document in the Data Assessment under Contract Problems/Non-Compliance.

14.0 Internal Standard (Form VIII)

14.1 Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to $+100\%$) for each continuing calibration?

☒ —

If no, was the sample re-analyzed?

☒ —

ACTION: 1. Circle all outliers with red pencil.

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Method: CLP/SCW CLM03.2

Date: June 1998
SCP HW-6, Rev. 11

YES NO N/A

2. List all the outliers below.

Sample #	Internal Std.	Area	Lower/Upper Limit
			/
			/
			/
			/

(Attach additional sheets if necessary,
or attach copies of Form VIII.)

ACTION: If any sample was not re-analyzed, document in
the Data Assessment under Contract
Problems/Non-Compliance.

ACTION: 1. If the internal standard area count is
outside the upper or lower limit, flag with "J"
all positive results quantitated with this
internal standard.

2. Do not qualify non-detects when associated
IS area counts are > 100%.

3. If the IS area in the sample is below the
"lower limit," < 50%, qualify all analytes
associated with that IS estimated, "J". If the
area counts are extremely low, < 25% of the
area in the 12 hour standard, or if performance
exhibits a major abrupt drop-off, flag all
associated non-detects as unusable, "R", and
positive hits estimated, "J".

14.2 Are the retention times of the internal standards
within 30 seconds of the associated calibration
standard?

IV

ACTION: Professional judgement should be used to
qualify data if the retention times differ by
more than 30 seconds.

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Method: CLP/SOW OLM03.2

Date: June 1996
SOP HW-6, Rev. 11

YES NO N/A

NOTE: Contractual requirements state that if any internal standard fails the acceptance criteria, the sample must be re-analyzed. If the affected sample was not re-analyzed, document in the Data Assessment under Contract Problems/Non-Compliance.

NOTE: See Notes in section 3.4, page 7 for a description of sample data the laboratory must submit.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for VOA analysis?

☒ ☐ ☐

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between duplicate results must be addressed in the reviewer narrative. However, if large differences exist, identification of field duplicates should be confirmed by contacting the sampler.

YES -

	MW7D-D	MW7D-D/DP
1,1-DCA	1	1
CIS-1,2-DCE	32	32
1,2-DCA	290	270
TCE	2	2
Bzene	7	7

0-7 APD -

ATTACHMENT 2

Organic Regional Data Assessment Summary

DPO: [] ACTION

[] FYI

REGION II

ORGANIC REGIONAL DATA ASSESSMENT SUMMARY

CASE/SAS NO.: 251041LABORATORY: STL NEWBURGHSDG NO.: 251041DATA USER: EPA Region IISOW: OLM03.2REVIEW COMPLETION DATE: 10/19/05NO. OF SAMPLES: 14 WATER _____ SOIL _____
OTHER _____

REVIEWER: [] ESD [] ESAT [✓] OTHER, CONTRACTOR

KIM B. WATSON, QAM

QC ITEM	VOA	BNA	PES		
HOLDING TIMES	0	NA	NA		
GC-MS PERFORMANCE	0				
INITIAL CALIBRATIONS	0				
CONTINUING	0				
FIELD BLANKS (F = ^{F21} M70-P)	0				
LABORATORY BLANKS	0				
SURROGATES	0				
MATRIX	0				
QC SAMPLES (LCS, PVS)	0				
INTERNAL STANDARDS	0				
COMPOUND	0				
COMPOUND	0				
SYSTEM PERFORMANCE	0				
OVERALL ASSESSMENT	0	✓	✓		

0 = No problems or minor problems that do not affect data usability.

X = No more than about 5% of the data points are qualified as either estimated or unusable.

M = More than about 5% of the data points are qualified as either estimated or unusable.

Z = More than about 5% of the data points are qualified as unusable.

DPO ACTION ITEMS: _____

AREAS OF CONCERN: *None* _____

ATTACHMENT 3

Data Rejection Summary

DATA REJECTION SUMMARY

Type of Review: VOA - Full Validation Date: 10/19/05 Case No.: 251041

Site Name: SWANEY FARM, Amery, NY Lab Name: STL NEWBURGH

Reviewer's Initials: Kim B. Watson

Number of Samples: 14

9-OLM - GLW - H₂O
5-OLC - Drinking H₂O

Analytes Rejected Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)							
Surrogate	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples
VOA (33)	0	0	* 0	0	0	*	14
ACID (14)							1 = 0 %
B/N (50)							1 = 0 %
PEST (21)							1 = 0 %
PCB (7)							1 = 0 %

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

* REJECTIONS for dilution only - See test - > NOT applicable
** REJECTION of TIC for contamination

RW 10/19/05

Analytes Estimated Due to Exceeding Review Criteria For:

No. of Compounds/No. of Fractions (Samples)							
Surrogate	Holding Time	Calibration	Contamination	ID	Internal Standards	Other	Total # of Samples
							Total # Estimated/Total # in All Samples

VOA (33) (34)	0	0	0	0	0	0	0	0	0	24	306	241306	= 28 %
ACID (14)												1	= %
B/N (50)												1	= %
PEST (21)												1	= %
PCB (7)												1	= %

NOTE: ASTERISK (*) INDICATES ADDITIONAL EXCEEDANCES OF REVIEW CRITERIA.

* BLANKS - CONTAMINATED
REPORTING LIMIT "U"

OLC

VOA (41)

0 0 0 5 0 0 0 0 0 * 205 5/205 = 2.4%

* TB contamination
Reporting Limit "U"

** TIC REJECTION

DEFINITIONS

Acronyms

BFB - bromofluorobenzene
BHC - benzene hexachloride
BNA - base neutral acid
CCS - contract compliance screening
CLASS - Contract Laboratory Analytical Services Support
CLP - Contract Laboratory Program
CRQL - Contract Required Quantitation Limit
%D - percent difference
DCB -decachlorobiphenyl
DDD - dichlorodiphenyldichloroethane
DDE - dichlorodiphenylethane
DDT - dichlorodiphenyltrichloroethane
GC - gas chromatography
GC/EC - gas chromatograph/electron capture detector
GC/MS - gas chromatograph/mass spectrometer
GPC - gel permeation chromatography
IS - internal standard
kg - kilogram
µg - microgram
MAGIC - Mainframe Access Graphical Interface with CARD
MS - matrix spike
MSD - matrix spike duplicate
L - liter
mL - milliliter
PCB - polychlorinated biphenyl
PE - performance evaluation
PEM - Performance Evaluation Mixture
QC - quality control
RAS - Routine Analytical Services
RIC - reconstructed ion chromatogram
RPD - relative percent difference
RRF - relative response factor
 $\overline{RRF}$ - average relative response factor (from initial calibration)
RRT - relative retention time
RSD - relative standard deviation
Rt - retention time
RSCC - Regional Sample Control Center
SDG - sample delivery group
SMC - system monitoring compound
SOP - standard operating procedure
SOW - Statement of Work
SVCA - semivolatila organic analysis
TCL - Target Compound List
TCLP - Toxicity Characteristics Leachate Procedure
TCX -tetrachloro-m-xylene
TIC - tentatively identified compound

Acronyms (cont'd.)

IPC - technical project officer
VOA - volatile organic analysis
VTSR - validated time of sample receipt

Data Qualifiers

- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.