FAVERO GEOSCIENCES

1210 South 5th Street
Springfield, IL 62703
Phone 217.522.6714
Fax 217.522.6727
dfavero@ameritech.net

August 17, 2011

Mr. Don Heller
U.S. Environmental Protection Agency, Region 5
Waste Management Division
77 West Jackson Blvd., HRP-8J
Chicago, IL 60604-3590

RE: Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12
RCRA Corrective Action
Allison Transmission, Speedway, IN
USEPA ID Nos. IND006413348 and IND000806828

Dear Mr. Heller:

The above referenced report is enclosed for USEPA's review. Two paper copies and one electronic version (on a CD) of the report are enclosed for your use. The Report is submitted on behalf of General Motors LLC (GM).

Please contact Marilyn Dedyne with GM or me if you have any questions.

Sincerely,

David M. Favero
Project Manager

Enclosure

Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, RCRA Corrective Action, Allison Transmission, Inc., Speedway, IN, USEPA ID Nos. IND006413348 and IND000806828, ARCADIS U.S., Inc., August 17, 2011.

Distribution

Glynda Oakes, IDEM Office of Land Quality (CD)
Adam Rickert/Pam Thevenow, Marion County Health Department (CD)
Marilyn Dedyne/Jean Caufield, GM (paper & CD)
Kim Crame/Sue Barto, Allison Transmission, Inc. (CD)
Speedway Library (Public Information Repository) (CD)

ARCADIS
Infrastructure · Water · Environment · Buildings

Imagine the result

General Motors LLC

Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12

RCRA Corrective Action, Allison Transmission, Speedway, Indiana, USEPA ID Nos. IND006413348 and IND000806828

October 1, 2009, Updated August 17, 2011

Table of Contents

1. Background **1**

2. Evaluation of the Distribution of Chlorinated Volatile Organic Compounds **2**

2.1 Geology 4

2.2 Hydrogeology 5

2.3 Groundwater Analytical Results 7

3. Conclusions **9**

4. References: **11**

Tables

Table 1 Marion County Health Department Qualitative Sampling Summary

Table 2 Summary of Analytical Results

Table 3 Summary of Select VOC Results for Allison Transmission Monitoring Wells

Drawings

Drawing 1 Site Map

Drawing 2 No-Well Zone Area 2

Drawing 3 VOC Analytical Results

Drawing 4 Cross Section Reference

Drawing 5 Cross Section VT-1-VT-1'

Drawing 6 Cross Section VT-2-VT-2'

Drawing 7 Cross Section VT-3-VT-3'

Drawing 8 Cross Section VT-4-VT-4'

Drawing 9 Cross Section VT-5-VT-5'

Drawing 10 Well Location and Potentiometric Surface Map - 2000

Drawing 11 Potentiometric Surface of Upper Most Sand Units November 2004

Drawing 12a Potentiometric Surface - Shallow Sand Unit S2 October 2010

Drawing 12b Potentiometric Surface - Sand Unit S3 October 2010

Drawing 13 PCE and TCE Groundwater Concentration Contours – Sand Unit – S2

Drawing 14 Cis-1,2-DCE and Vinyl Chloride Groundwater Concentration Contours – Sand Unit – S2

Drawing 15 PCE and TCE Groundwater Concentration Contours – Sand Unit – S3

Drawing 16 Cis-1,2-DCE and Vinyl Chloride Groundwater Concentration Contours – Sand Unit – S3

Drawing 17 VOC Analytical Results – June 2011

Attachment

A Indiana Department of Natural Resources Water Well Records

B Laboratory Analytical Report

C Potentiometric Surface Maps

D Concentration Contour Drawings

E Keramida Boring Logs and Data Box Figures

F MW-0102-S2 Summary Memo

G USEPA (Weston) Iso-Concentration Contour Figures

1. Background

ARCADIS U.S., Inc. (ARCADIS) has prepared this evaluation on behalf of General Motors LLC (GM) for the Allison Transmission, Inc. facility located at 4700 West 10th Street, 4500 West Gilman Street and 901 Grande Avenue (Facility), in Speedway and Indianapolis, Indiana (Drawing 1).

The United States Environmental Protection Agency (USEPA) and General Motors Corporation (GMC) entered into a performance-based RCRA Corrective Action Agreement (Agreement) with the effective date of April 27, 2005. Pursuant to the Agreement, GMC worked in cooperation with USEPA to investigate, and as necessary, stabilize and remediate releases of hazardous wastes or hazardous constituents at or from the Facility.

In August 2007, GMC sold Allison Transmission, which included the Facility, to Clutch Operating Company, Inc. (who now operates the Facility as Allison Transmission, Inc. (Allison)). However, as part of the sale, GMC retained responsibility for certain environmental obligations, including RCRA Corrective Action. After GMC declared bankruptcy in June 2009, General Motors LLC (GM) was formed and assumed responsibility for the RCRA Corrective Action at the Allison Transmission, Inc. facility.

As part of the Corrective Action process, GMC completed a Corrective Measures Proposal, identifying measures to address potential significant current or future risk to human health or the environment. A component of the Corrective Measures Proposal includes a “No-Well Zone” that would need to be established by the Marion County Health Department (MCHD).

Installation of a well in Marion County requires a licensed water well driller to obtain a well permit, which is approved by the Marion County Health Officer. The Marion County Health Officer does not approve well permits for potable wells in a “No-Well Zone”, since the groundwater in these areas is not considered suitable for use by humans for drinking, food preparation, washing or other direct human contact (Sec. 18-102 of the Marion County Health Code). A portion of the Facility (Plant 12/14) and property to the north, east and south of the Facility is within an existing No-Well Zone 2, which is presented on Drawing 2.

On May 26, 2009, GMC, Allison and ARCADIS met with the MCHD to discuss possible expansion of No-Well Zone 2 as a measure to be incorporated into the Corrective Measures Proposal. During the meeting, it was noted that there are several

residences in the area south of Allison Transmission Plant 12 and within the current No-Well Zone 2 that obtain potable water from water wells on their property. GMC and GM has thoroughly investigated the groundwater in the area south of Allison Transmission Plant 12 to make sure that groundwater in the area was not adversely impacted with contaminants originating from the Facility.

On July 24, 2009, USEPA informed GM that MCHD had collected and analyzed samples from 12 water wells in the residential area south of Allison Transmission Plant 12. The water samples were analyzed for several constituents, including several volatile organic compounds (VOCs). MCHD supplied the USEPA with a table containing a qualitative summary of the results and analytical reports for eight of the samples. Two water samples contained vinyl chloride concentrations exceeding the USEPA Maximum Contaminant Level (MCL) of 2 micrograms per liter (ug/L). The data as provided by the MCHD is presented in Table 1 and a summary of the analytical results is presented in Table 2. Available water well records for the properties south of Allison Transmission Plant 12 are presented in Attachment A.

2. Evaluation of the Distribution of Chlorinated Volatile Organic Compounds

Because of the detection of vinyl chloride in two water samples collected by MCHD, USEPA requested that GM collect groundwater samples from GM monitoring wells located in the residential area south of Allison Transmission Plant 12 to verify previous findings that no VOCs, including vinyl chloride, had migrated past the Facility boundary. ARCADIS collected groundwater samples from seven monitoring wells (MW-0102-S2B, MW-0522-S2A, MW-0522-S2B, MW-0524-S2A, MW-0524-S2B, MW-0525-S2B, and MW-0818-S3) on August 5 and 6, 2009 and submitted the samples for analysis of VOCs. VOCs were not detected above the laboratory reporting limits in any of the GM groundwater samples. Analytical results are summarized in Table 2. The laboratory analytical report is presented in Attachment B. A drawing presenting the analytical data collected by MCHD and GM as of April 27, 2010 is provided as Drawing 3.

USEPA also requested that available groundwater flow information be reviewed to verify the flow direction between the Facility and the properties where the water samples containing vinyl chloride were collected. ARCADIS reviewed available potentiometric surface maps generated from depth to groundwater measurements collected from monitoring wells at and in the vicinity of the Facility. Groundwater in the vicinity of the residential area south of Allison Transmission Plant 12 appears to generally flow from the north-northeast, from the southern Facility boundary, to the

southwest, towards Big Eagle Creek. The available potentiometric surface maps from 2000 to 2009 are presented in Attachment C.

ARCADIS also reviewed groundwater concentration contour drawings for tetrachloroethene, trichloroethene, cis-1,2-dichloroethene and vinyl chloride from 2008 for the uppermost sand and gravel unit (referred to as S2) and a lower sand and gravel unit (referred to as S3) (Attachment D). Concentrations of these compounds have not typically been detected above MCLs in monitoring wells located at the southern Facility boundary or in GM monitoring wells located in the area south of Allison Transmission Plant 12.

Since the initial sampling described above, MCHD has collected water samples from most of the residential wells in the neighborhood. In total, four residential water wells contained vinyl chloride at concentrations exceeding the MCL ([redacted] t.). The data in Table 2 has been updated with all residential well data ARCADIS has received from MCHD or USEPA, as of the date of this updated report.

Additionally, ARCADIS and Genuine Parts have performed additional investigations to evaluate the concentration at and in the vicinity of the residential neighborhood. In November 2009, Keramida, Inc. installed four soil borings along the west side of Holt Road, north of Michigan Road on behalf of Genuine Parts. Borehole water samples were collected from different saturated intervals of the S2 sand and gravel unit and analyzed for VOCs. Boring logs and analytical results presented by Keramida, Inc. are included in Attachment E. These analytical results have been incorporated into the databox figure (Drawing 3).

ARCADIS completed six soil borings in January 2010. During this investigation, ARCADIS collected borehole water samples from different saturated intervals of the S2 sand and gravel unit. These borehole water samples were analyzed for VOCs. The data from this investigation was reported in the Supplement to RCRA Facility Investigation: Vermont Street Investigation Data Report (ARCADIS 2010a). These analytical results have been incorporated into the databox figure (Drawing 3).

In April 2010 six monitoring wells were installed by ARCADIS, on behalf of GM, into the S2 and S3 sand and gravel units and a previously unidentified sand and gravel unit between the S3 and S4 sand and gravel units. Groundwater samples were collected and analyzed for VOCs. This data was presented in the Supplement No. 2 to RCRA Facility Investigation Data Report prepared by ARCADIS in May 2010 (ARCADIS

2010b). These analytical results have been incorporated into the databox figure (Drawing 3).

On July 8, 2010, the USEPA conducted a sampling event where groundwater samples were collected from selected monitoring wells on the Allison Transmission, Genuine Parts and Michigan Plaza sites, in addition to five residential water wells. Additionally, USEPA collected indoor air samples from two of the residential properties.

On October 14 and 15 2010, USEPA led an area-wide groundwater gauging event that covered Allison Transmission, Genuine Parts, Michigan Plaza, and the residential neighborhood. In addition to the groundwater gauging, USEPA contractors surveyed the top-of-casing for each on the monitoring wells gauged. This data was summarized by Weston Solutions, Inc. (Weston) on behalf of USEPA in a report titled *Technical Memorandum, Analytical and Hydrogeological Evaluation, West Vermont Street Contamination Site* (Weston 2011). Additionally, on October 15, 2010, ARCADIS collected groundwater gauging data from additional monitoring wells at the Allison Transmission property. The potentiometric surface maps using the data collected in October 2010 are presented on Drawings 12a and 12b for the S2 and S3 sand and gravel units, respectively

In July 2011, ARCADIS installed four new monitoring wells in the S3/S4 or S4 sand and gravel units. Groundwater samples were collected from the four new monitoring wells as well as ten existing monitoring wells or piezometers. Analytical results of CVOCs of interest from this monitoring event are presented on Drawing 17.

2.1 Geology

A set of cross sections were prepared using a combination of data collected from soil borings and monitoring wells completed on the Allison Transmission, Genuine Parts, and Michigan Plaza sites and residential well logs for the Vermont Street neighborhood. These geologic cross-sections are shown on Drawings 4 through 9.

The geology of the area is characterized by intermittent sand and gravel units separated by varying thickness of clay rich tills. The uppermost saturated sand unit is referred to as the S1 sand and gravel and is only present on the western portion of the Allison Transmission property. The second sand and gravel unit is referred to as the S2 sand and gravel. The S2 sand and gravel is water bearing and is present across most of the site, including the Genuine Parts and Michigan Plaza properties. On the eastern portion of the Allison Transmission property (beginning around Plant 12) the S2 sand

and gravel is separated from the surface by a clay rich till. Portions of the S2 are also divided by a till unit and are referred to as S2A and S2B sand and gravel in certain areas. A third sand and gravel unit, referred to as the S3 sand and gravel, is separated from the S2 unit by a clay rich till unit. The S3 sand and gravel unit is water bearing and appears to be present across the entire Allison Transmission portion of the area extending to Michigan Avenue. The S3 sand and gravel has not been well defined east of Holt Road nor has it been thoroughly investigated by completing deep soil borings or monitoring wells at the Genuine Parts or Michigan Plaza portions of the area of interest near Vermont Street. A fourth saturated sand unit which is referred to as the S3/S4 sand and gravel is separated from the S3 sand and gravel by another clay rich till unit, and appears in soil boring logs for a few monitoring wells on Allison Transmission property . It appears that several of the residential wells are screened in the S3/S4 sand and gravel unit (see Cross Sections VT-4 and VT-5 in Drawings 8 and 9, respectively). The S3/S4 sand and gravel was not encountered in other deep soil borings completed further west on the Allison Transmission property. A fifth water bearing sand, the S4 sand and gravel, is present much deeper and it appears to be present across much of the Allison Transmission property. The S4 sand and gravel unit is not present in the residential well installed at [redacted] (see Cross Section VT-4, Drawing 8) instead; shale was encountered above the depth where the S4 unit would be expected to be found.

The residential wells tend to be installed within one of two sand units, either within the S2 sand and gravel at depths of around 35 feet below ground surface (bgs) or within the S3/S4 sand and gravel at depths between 60 and 75 feet bgs. Of the residential wells that have had detections of vinyl chloride above the MCL, one is screened in the S2 sand and gravel unit [redacted] one is screened in the S3 sand and gravel unit [redacted].) and one is screened in the S3/S4 sand and gravel unit [redacted] ARCADIS does not have the well log for the final residential well, [redacted].; therefore, the screened interval is not known.

2.2 Hydrogeology

Potentiometric surface maps for the Allison Transmission site have been presented in several reports since 2000 and are presented in Attachment C. Potentiometric surface maps for 2000, 2004 and 2010 and discussed below and are included as Drawings 10, 11 and 12a. Each of these potentiometric surface maps show that groundwater flow in the S2 sand unit on the Allison Transmission property is primarily south. A slight southeast flow direction occurs on the eastern edge of the site near Little Eagle Creek. A characteristic that appears in the 2004 potentiometric surface map (Drawing 11) is

that the stratigraphically similar elevation of the S2 sand and gravel does not lead to a constant gradient across the site. Several areas of steep gradient changes indicate that there are distinct separations between the S2 sand and gravel unit at different locations at the Allison Transmission property. As shown in the 2010 potentiometric surface map (Drawing 12a), the steep gradient changes are still present at the same locations on the Allison Transmission property. There is no apparent gradient change associated with the S2 sand and gravel unit south of the Allison Transmission plants or on the Genuine Parts and Michigan Plaza sites.

The flow direction in the S3 sand and gravel unit is also to the south in the vicinity of Plant 12 (Drawing 12b) with a more westerly component in the southern part of the site. Insufficient data is available to determine a precise flow direction for the S3/S4 or the S4 sand and gravel units.

Two surface water features are present in the area (see Drawing 12a). Little Eagle Creek which has a base stage of approximately 700 feet above mean sea level is located east of the Allison Transmission Property. Big Eagle Creek, which has a stage of approximately 692 feet above mean sea level is located to the south of the Allison Transmission property. The water surface elevation in Little Eagle Creek is approximately three feet higher than the groundwater surface elevation in adjacent monitoring wells indicating that it is a losing stream in the area of Genuine Parts. The water surface elevation in Big Eagle Creek is equal to or slightly lower in elevation than the groundwater surface in adjacent monitoring wells making it a gaining stream. The interaction between these streams and the S2 sand and gravel control the natural groundwater flow direction for the area.

Two remedial systems are in place and operating on the Allison Transmission portion of the area. These are identified as the Diesel System, and the Area of Interest (AOI)-51 System. Both are groundwater recovery systems that are designed to control groundwater on-site to prevent offsite migration of groundwater.

The Diesel System is in place and operating adjacent to the south building wall of Plant 3 and on the north bank of Big Eagle Creek, due south of Plant 3. The portion of the system on the north bank of Big Eagle Creek operates in the S2 sand and gravel unit and captures both groundwater and diesel non-aqueous phase liquid prior to entering Big Eagle Creek. The portion of the system on the north bank of Big Eagle Creek operates at an average flow rate of approximately four gallons per minute and achieves a capture zone that is limited to the width of the recovery well system,

approximately 400 feet by 100 feet. It has no influence on groundwater flow over the rest of the site.

The AOI-51 System consists of a series of groundwater extraction wells located in the S2A, S2B and the S3 sand and gravel units. This system is designed to collect groundwater in the source area (under Plant 12) and directly downgradient of the source area. Groundwater extraction from four recovery wells located at the source area started in 2004; however, the operation at this time included limited, periodic extraction from the saturated units. In the fall of 2007, the AOI-51 system was upgraded to include continuous extraction and treatment from a total of six recovery wells at the source area and eight recovery wells downgradient of the source area. Currently, the system operates at a combined flow rate of less than 45 gallons per minute. The system has a strong influence on the groundwater flow at and in the immediate area downgradient from AOI-51; however, as shown in the potentiometric surface figures (Attachment C), there is no change to the overall regional groundwater flow direction while the system is operating.

2.3 Groundwater Analytical Results

Chlorinated volatile organic compounds, specifically vinyl chloride, were first detected by MCHD in residential water wells along Vermont Street in 2009. These first detections were all in wells located in the eastern portion of the Vermont Street area, close to Holt Road. Two of the wells are screened in the deeper S3 or S3/S4 sand and gravel units, one of the residential wells is screened in the shallower S2 sand and gravel unit. Vinyl chloride was detected consistently above the MCL in two of the residential wells in 2009 and one of the residential wells had a detection above the MCL for the first sample collected on June 11, 2009 but was below the MCL for the eight subsequent samples collected in 2009.

USEPA collected water samples from five residential wells during the July 2010 investigation. During the USEPA investigation, vinyl chloride and/or tetrachloroethylene (PCE) were detected in the three residential wells where vinyl chloride was previously detected. Vinyl chloride and PCE were also detected in two additional residential wells. These additional wells are located further west than the initial detections discovered in 2009 and are also screened in the S2 sand and gravel unit. It should be noted that PCE was not detected above MCLs in any residential well sample in 2010 nor was it detected in any of the 18 residential water wells that were sampled by MCHD during 2009. In addition, all of the PCE detections and all but one of the VC detections were flagged as estimated values by the laboratory. Table 2

presents the residential water analytical results and has been updated to include the 2010 analytical results.

The S2 and S3 units are impacted in several locations within the Allison Transmission property with the highest impacts associated with AOI-51, located in the southwest portion of Plant 12. Iso-concentration maps for this area are included on Drawings 13 through 16. As shown on these figures, the chlorinated VOC (CVOC) impacts from the AOI-51 area do not extend beyond the Allison Transmission property boundary in either the S2 sand and gravel or the S3 sand and gravel units. However, it should be noted that CVOCs, specifically, vinyl chloride and cis-1,2-dichloroethene (DCE) have sporadically been detected in monitoring well MW-0102-S2 since May 21, 2010. During the most recent sampling of MW-0102-S2 completed in February 2011, CVOCs were not detected in groundwater samples collected during vertical profiling of the screened interval. A complete discussion of the 2010 and 2011 sampling and results from MW-0102-S2 is provided in Attachment F. Wells installed in the S3/S4 and the S4 units have never contained any CVOC compounds.

Several iso-concentration maps were also prepared by Weston Solutions, Inc. (Weston) as part of the USEPA contract. These figures are included in Attachment G. They incorporate the data collected from both the Genuine Parts and Michigan Plaza sites and show the extent of CVOC impacts east of Holt Road and also through the West Vermont Street residential area. The Genuine Parts and Michigan Plaza sites installed monitoring wells at the top of the S2 sand and gravel unit and at the base of the S2 sand and gravel unit. They are defined in the Weston report as the upper water bearing zone and the intermediate water bearing zone. As shown in Drawings 5, 7 and 9, the deeper sand units (S3 and S3/S4) have not been fully investigated at Genuine Parts and Michigan Plaza. Monitoring wells MMW-5D, MMW-6D and MW-165D are installed in the S3 sand and gravel unit and MMW-4D is installed in the S3/S4 sand and gravel unit (See Cross-Section VT-1, Drawing 5). These monitoring wells contained significant CVOC concentrations when last sampled by Genuine Parts or Michigan Plaza (April through July 2010). Monitoring well MW-166D is not presented on the cross-sections, however, the screened interval for this monitoring well corresponds to that of MW-165D and it is most likely installed in the S3 sand and gravel unit. This monitoring well also contained CVOC concentrations when it was last sampled by Genuine Parts (April through July 2010). Monitoring well MMW-P09D is presented on Drawing 9 (Cross-Section VT-5) and is most likely installed at the base of the S2 unit, however, it was blank drilled by Michigan Plaza's contractor from 24-45 feet bgs and the geology of the screened interval (35-45 feet bgs) as well as the 10 feet above the screened interval is not documented on boring logs. Only one

monitoring well (MMW-4D) is installed to the depth that corresponds with the S3/S4 sand and gravel unit (see Cross-section VT-1, Drawing 6). Monitoring well MMW-4D was continuously sampled to 66 feet bgs and is screened from 47.5 to 62.5 feet bgs, with a sump from 62.5 to 66 feet bgs. This monitoring well exhibited cis-1,2-DCE and vinyl chloride concentrations of 719 ug/L and 237 ug/L, respectively, when it was sampled by Michigan Plaza on April 20, 2010.

In July 2011, ARCADIS installed one monitoring well in the S3/S4 sand and gravel unit (MW-1105-S3/S4) and since no S3/S4 unit was identified at these locations, three monitoring wells in the S4 sand and gravel unit (MW-1101-S4, MW-1102-S4, MW-1103-S4).. Both an S3 and S3/S4 sand and gravel unit were identified during the advancement of proposed monitoring well MW-1104; however, these units were dry and no monitoring well was installed. Additionally, no S4 sand and gravel unit was identified during the advancement of proposed monitoring well MW-1104; therefore, no monitoring well was installed. Groundwater samples were collected from the four new monitoring wells as well as ten existing monitoring wells or piezometers. This data is presented in Table 3 and Drawing 17. The laboratory analytical reports are presented in Attachment B. Chloroform, a common artifact of utilizing municipal water during drilling activities, was detected in monitoring well MW-1102-S4, and cis-1,2-DCE was detected below the MLC in monitoring well MW-1101-S4. No other VOCs were detected during this event in the wells screened in the S2, S2A, S2B, S3, S3/4 or S4 sand and gravel units.

3. Conclusions

Clay rich tills separate the water bearing sand and gravel units in the area. There are sand and gravel units that correlate stratigraphically but not necessarily hydraulically. The S2 sand and gravel unit specifically demonstrates this from the gradient changes observed from the northwest to the southeast on the Allison Transmission property. The S3/S4 sand and gravel unit is not present under much of the Allison Transmission property but appears to extend along the southern edge of the Plant 12 property to the east. The S3/S4 sand and gravel unit was not identified in deeper soil borings/monitoring wells completed on behalf of GM along Michigan Avenue, west of Holt Road.

Groundwater flow in the S2 and S3 units is controlled by Big Eagle Creek, as evidenced by the potentiometric contours on Drawings 12a and 12b. The creek acts as the discharge boundary for groundwater from the area. This causes groundwater flow for the whole area to be towards Big Eagle Creek, which is a gaining stream. Due to

the downward gradient created by Little Eagle Creek, which is a losing stream, the CVOC concentrations are greater in the lower portion of the saturated S2 sand and gravel unit (bottom of S2 unit) in the vicinity of Genuine Parts. Based on the MMW-4D soil boring, the tills separating the S2, S3 and S3/S4 units are not present close to Little Eagle creek. This, combined with the downward influence of Little Eagle Creek, appears to drive significant CVOC mass to the depth where some of the residential wells are screened (S3/S4 unit).

CVOCs present on the Allison Transmission property historically had limited migration potential due to limited recharge and poorly interconnected water bearing sand units. Data collected in early 2000's, prior to the installation of the AOI-51 remediation system located at Plant 12, indicate that groundwater impacts were limited in extent in the S2 and S3 sand and gravel units. The data also indicate that the groundwater flow pattern prior to the implementation of the groundwater recovery system at AOI-51 was to the south and southwest generally towards Big Eagle Creek, not in the direction of the impacted Vermont Street wells.

Since the AOI-51 groundwater recovery system was placed into operation in 2007, any potential migration of CVOCs in the S2 sand and gravel and S3 sand and gravel from the Allison Transmission property has been mitigated. The limited flow rates and short duration of the system (less than four years) is unlikely to have affected groundwater conditions that existed in the downgradient neighborhood prior to system operation. This means that if a CVOC plume had migrated downgradient past the Allison Transmission property boundary prior to operation of the groundwater recovery system at Plant 12, such a plume would have been detected in downgradient monitoring wells installed in 2004 or 2005, and would still be detected in those wells. The monitoring clearly shows that no such off-site migration of CVOCs has occurred. Chloroform is the only CVOC that was detected previously in any of the downgradient neighborhood monitoring wells. Chloroform was detected at 5.1 ug/L in monitoring well MW-0524-S2A in 2006 and has not been detected since. During the July 2011 monitoring event chloroform was detected in monitoring well MW-1102-S4 (4.3J ug/L) and cis-1,2-DCE was detected in the westernmost monitoring well MW-1101-S4 (6.7 ug/L). ARCADIS expects subsequent samples will not detect chloroform because the chloroform is an artifact of the drilling process. Since no other CVOCs have been detected between Allison Plant 12 and the Vermont Street neighborhood,, there is no evidence of migration of CVOCs off of the Allison Transmission property.

The CVOCs present in the Vermont Street residential neighborhood at low concentrations suggest the leading edge of a groundwater plume, not the residual

concentrations of a previously undiscovered excursion. Impacts also appear in wells screened in different saturated sand units indicating either a direct connection between the water bearing sands or different sources of the CVOCs to each sand unit. USEPA is continuing to review the data and potential sources of the CVOCs.

Monitoring wells completed between known sources on the Allison Transmission property and the residential neighborhood as well as temporary well sampling indicates that no PCE, TCE, or VC are present in the S2, S3, S3/S4 or S4 sand and gravel units between the Allison Transmission property boundary and the residential wells, which are located approximately 1,500 feet downgradient. Cis-1,2-DCE was detected once at 6.7 ug/l in the furthest west monitoring well recently installed along Michigan Street (MW-1101-S4). This well has only been sampled once to date so the result has not been verified.

The investigation completed to date by Genuine Parts and Michigan Plaza show CVOCs in the upper and lower portion of the S2 sand and gravel unit, which extends to the south of their respective properties, beyond the residential properties. No data has been collected from deeper sand units in this area.

Very few monitoring wells and soil borings have been completed deep enough to determine whether CVOCs could be migrating from either Genuine Parts or Michigan Plaza towards the deeper residential wells. One of the two wells that have been completed to the correct depth (S3/S4) indicates CVOC impacts near Michigan Plaza (MMW-4D) and downgradient of the Genuine Parts facility. GM has completed the investigation portion of the RCRA Corrective Action for the Facility and has determined that the CVOCs detected in the residential neighborhood do not migrate from the Allison Facility. Confirmation groundwater sampling of MW-1101-S4 through MW-1105-S3/4 will be conducted in the fall of 2011. Results from this confirmatory groundwater sampling event will be transmitted to USEPA when available.

4. References:

ARCADIS 2010a. Supplement to RCRA Facility Investigation: Vermont Street Investigation Data Report. RCRA Corrective Action, Allison Transmission, Inc., Speedway, Indiana. February 2010.

ARCADIS 2010b. Supplement No. 2 to RCRA Facility Investigation: Vermont Street Investigation Data Report. RCRA Corrective Action, Allison Transmission, Inc., Speedway, Indiana. May 2010

Keramida 2009. Boring logs and analytical data figures provided via email from Andrew Gremos on December 15, 2009.

Weston 2010. *Technical Memorandum, Analytical and Hydrogeological Evaluation, West Vermont Street Contamination Site, Speedway, Marion County, Indiana*. March 27, 2011.

ARCADIS

Attachment A

Indiana Department of Natural Resources Water Well Records

ARCADIS

Attachment B & C

Laboratory Analytical Report

Potentiometric Surface Maps

(On CD)

ARCADIS

Attachment D

Concentration Contour Drawings

ARCADIS

Attachment E

Keramida Boring Logs and Data Box Figures

ARCADIS

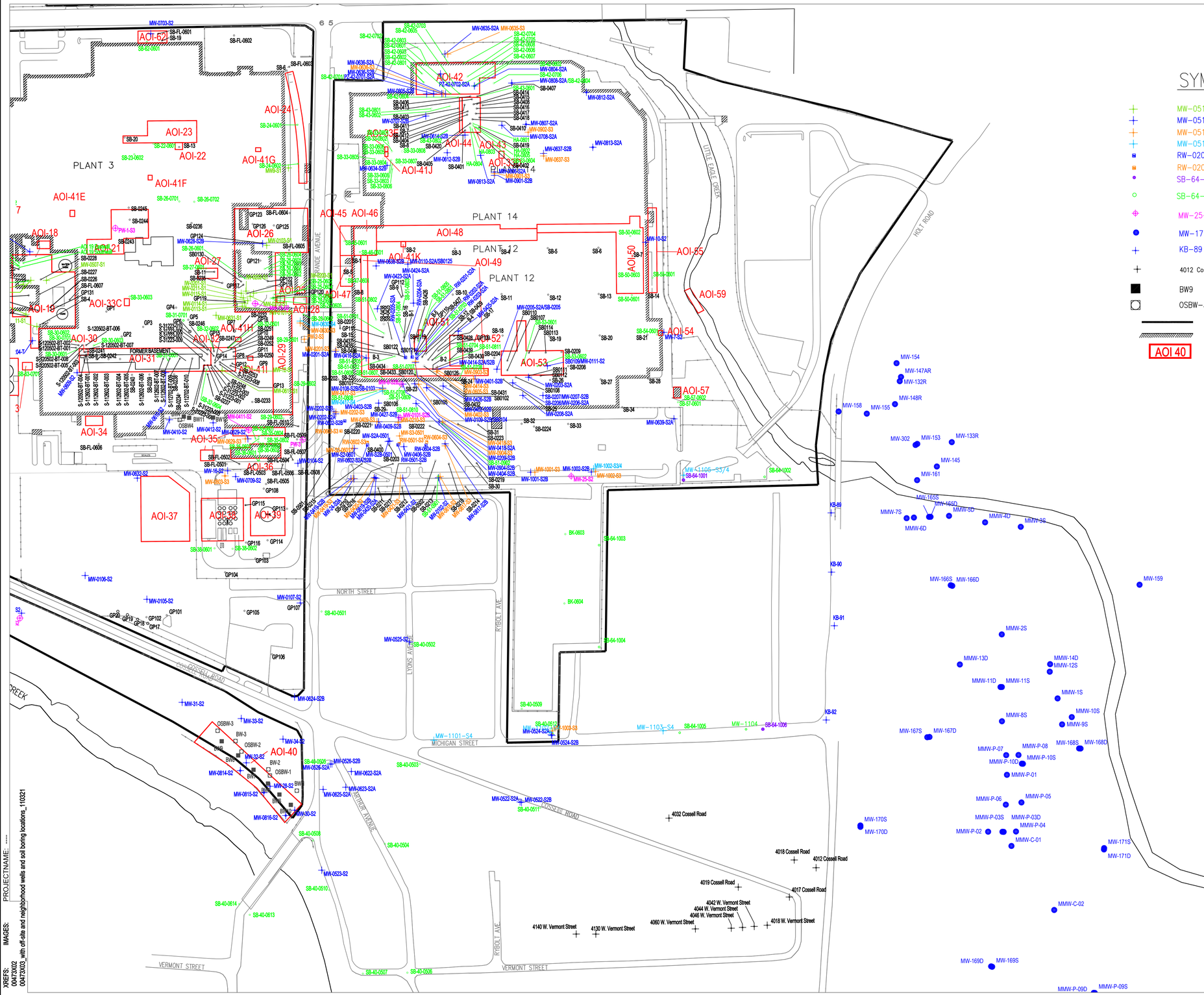
Attachment F

MW-0102-S2 Summary Memo

ARCADIS

Attachment G

USEPA (Weston) Iso-Concentration Contour Figures



SYMBOLS

MW-0517-S1	S1 MONITORING WELL
MW-0517-S2	S2 MONITORING WELL
MW-0517-S3	S3 MONITORING WELL
MW-0517-S4	S4 MONITORING WELL
RW-0201-S2	RECOVERY WELL
RW-0201-S3	RECOVERY WELL
SB-64-1001	PIEZOMETER MONITORING WELL
SB-64-1003	PRE/POST RFI SOIL BORING
MW-25-S2	ABANDONED MONITORING WELL
MW-171S	OFF SITE MONITORING WELL
KB-89	OFF SITE SOIL BORING
4012 Cossell Road	NEIGHBORHOOD DRINKING WATER WELL
BW9	DIESEL FUEL PLUME RECOVERY WELL
OSBW-3	ABANDONED DIESEL FUEL RECOVERY WELL
	PROPERTY BOUNDARY
	BUILDING OUTLINE
AOI 40	AREA OF INTEREST

160 0 160
Approximate Scale In Feet

GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

SITE MAP

ARCADIS

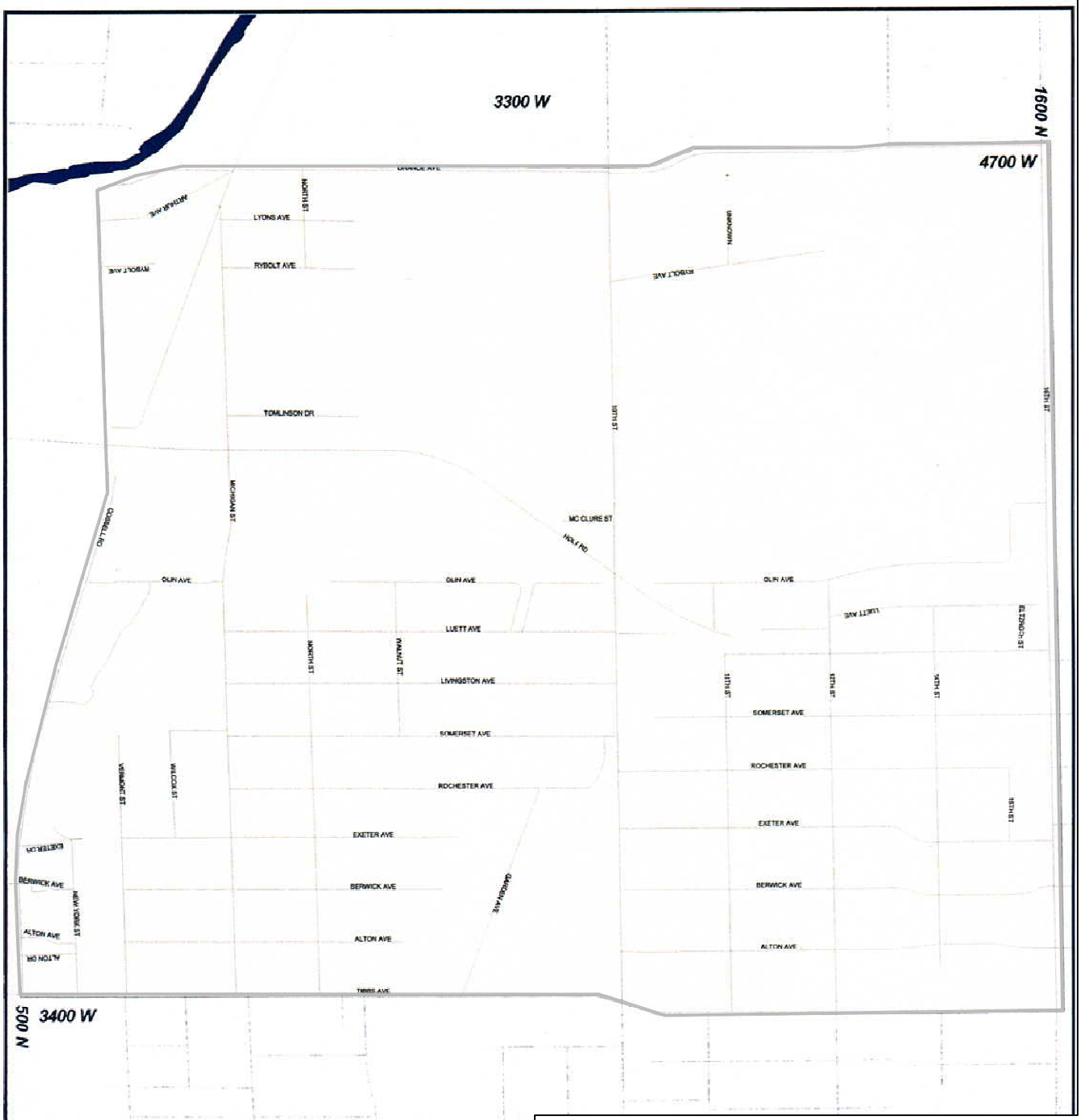
DRAWING
1

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(On)(Off)*;OFF=*REF*
G:\APPROJECT\ALLISTRN\00473\020-Corrective Measures\Field Investigations\Corrective Action Investigation\Draft Report - 7-29-2011\Drawing 1_Site Map_110415.dwg LAYOUT: PLT 3 SAVED: 8/17/2011 9:24 AM ACADVER: 17.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 8/17/2011 10:23 AM BY: FISHER, SARAH

XREFS: 00473X02 00473X03_with off-site and neighborhood wells and soil boring locations_110321
IMAGES:
PROJECTNAME: ----

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\APROJECT\ALLISTRN\N0473\020-Corrective Measures\Field Investigations\Vermont Street Investigation\Privileged and Confidential\Drawings\Water Supply locations\Drawing 2_WATER WELL SEARCH AREA_110415.dwg LAYOUT: NO WELL ZONE SAVED: 4/15/2011 7:00 AM ACADVER: 17.2S (LMS TECH)
PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 4/15/2011 1:25 PM BY: FISHER, SARAH

XREFS: 00473X02
IMAGES: 2008 AERIAL.jpg aerial.jpg aerial for both no well zone.jpg
PROJECTNAME: ----
No well zone 2.jpg
north properties.jpg
northwest properties.jpg
southeast properties.jpg
Water Wells-rev2.jpg

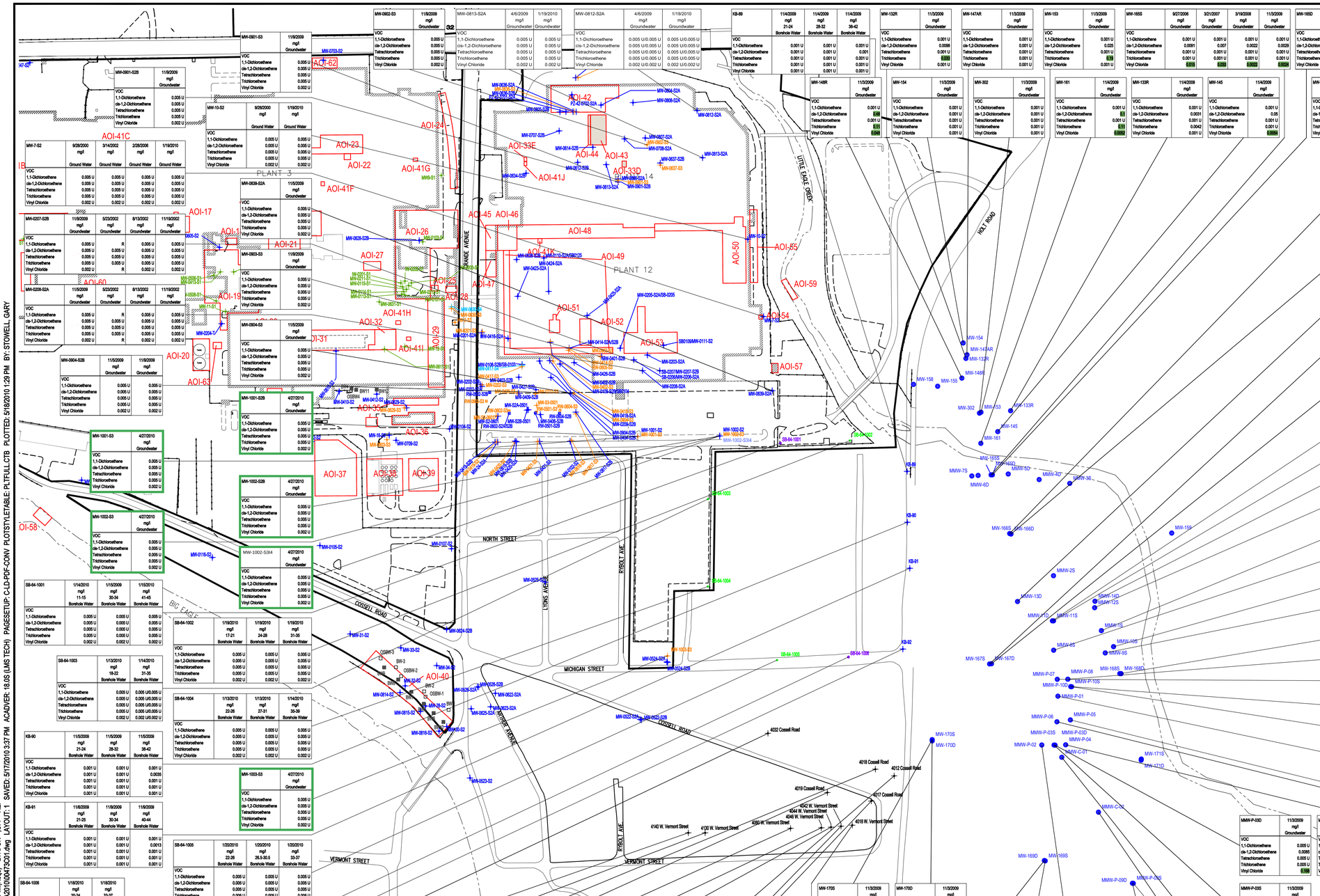


GENERAL MOTORS LLC.
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

NO-WELL ZONE NO. 2

ARCADIS

DRAWING
2



MW-0902-S3	11/9/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0813-S2A	4/6/2009 mg/l Groundwater	1/19/2010 mg/l Groundwater
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

MW-0812-S2A	4/6/2009 mg/l Groundwater	1/19/2010 mg/l Groundwater
VOC		
1,1-Dichloroethene	0.005 U/0.005 U	0.005 U/0.005 U
cis-1,2-Dichloroethene	0.005 U/0.005 U	0.005 U/0.005 U
Tetrachloroethene	0.005 U/0.005 U	0.005 U/0.005 U
Trichloroethene	0.005 U/0.005 U	0.005 U/0.005 U
Vinyl Chloride	0.002 U/0.002 U	0.002 U/0.002 U

KB-89	11/4/2009 mg/l 21-24 Borehole Water	11/4/2009 mg/l 28-32 Borehole Water	11/4/2009 mg/l 38-42 Borehole Water
VOC			
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.001 U	0.001 U

MW-132R	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.0098
Tetrachloroethene	0.001 U
Trichloroethene	0.0098
Vinyl Chloride	0.001 U

MW-147AR	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.001 U

MW-153	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.025
Tetrachloroethene	0.001 U
Trichloroethene	0.38
Vinyl Chloride	0.001 U

MW-165S	9/27/2006 mg/l Groundwater	3/21/2007 mg/l Groundwater	3/19/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.0091	0.007	0.0022	0.0029
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.715	0.255	0.0022	0.0024

MW-185D	12/21/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	12/22/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.0023	0.0015	0.001 U	0.001 U
cis-1,2-Dichloroethene	1.9	1.2	0.88	0.28
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.38	0.81	0.38	0.4

MW-186D	12/21/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	12/22/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.0059	0.0045	0.0043	0.0039
cis-1,2-Dichloroethene	8	5.9	5.9	5.1
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	4.42	3.27	4.5	6.24

MW-154	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.001 U

MW-148R	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	4.8
Tetrachloroethene	0.001 U
Trichloroethene	0.51
Vinyl Chloride	0.049

MW-302	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.001 U

MW-161	11/4/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.1
Tetrachloroethene	0.001 U
Trichloroethene	0.16
Vinyl Chloride	0.0022

MW-133R	11/4/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.0031
Tetrachloroethene	0.001 U
Trichloroethene	0.0042
Vinyl Chloride	0.001 U

MW-145	11/4/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.05
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.0054

MW-166S	6/13/2006 mg/l Groundwater	7/2/2007 mg/l Groundwater	5/29/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.34	0.34	0.29	0.17
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.25	0.211	0.0087	0.0065

MW-13D	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.369
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	4.19

MW-167S	12/21/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	12/1/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U/0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.004	0.0023/0.0021	0.001 U

MW-167D	12/21/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	12/1/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
cis-1,2-Dichloroethene	0.8400/0.8	0.7100/0.8	0.78/0.79	0.98
Tetrachloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Trichloroethene	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U/0.001 U	0.001 U
Vinyl Chloride	0.1/0.11	0.0620/0.064	0.0450/0.049	0.054

MW-11D	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.273
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0108

MW-11S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.099
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.003

MW-14D	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.345
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0038

MW-12S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0289
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0079

MW-1S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.119
Tetrachloroethene	0.158
Trichloroethene	0.228
Vinyl Chloride	0.0098

MW-8S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0583
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.372

MW-10S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.238
Tetrachloroethene	0.0128
Trichloroethene	0.0163
Vinyl Chloride	4.119

MW-9S	11/2/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.0053
cis-1,2-Dichloroethene	0.8
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.06

MW-16D	11/4/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0091

MW-P-08	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.05 U
cis-1,2-Dichloroethene	0.0867
Tetrachloroethene	0.05 U
Trichloroethene	0.05 U
Vinyl Chloride	2.96

MW-P-07	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.189
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.59

MW-P-10S	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.096
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.396

MW-P-10D	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	2.79
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	5

MW-P-01	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.05 U
cis-1,2-Dichloroethene	0.59
Tetrachloroethene	0.05 U
Trichloroethene	0.05 U
Vinyl Chloride	4.72

MW-P-05	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0078
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0069

MW-P-06	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.152
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.262

MW-P-03D	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.798

MW-P-04	11/5/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.59
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0429

MW-P-03S	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.375

MW-P02	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0051
Tetrachloroethene	0.0111
Trichloroethene	0.005 U
Vinyl Chloride	0.0738

MW-P-09D	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.0871

MW-P-09S	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.022 U

MW-C-01	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.251
Tetrachloroethene	0.0126
Trichloroethene	0.005 U
Vinyl Chloride	0.72

MW-C-02	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.022 U

MW-0901-S3	11/9/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0901-S2B	11/9/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-10-S2	9/28/2000 mg/l Ground Water	1/19/2010 mg/l Ground Water
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

MW-7-S2	9/28/2000 mg/l Ground Water	3/14/2002 mg/l Ground Water	2/28/2006 mg/l Ground Water	1/19/2010 mg/l Ground Water
VOC				
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U	0.002 U

MW-0207-S2B	11/9/2009 mg/l Groundwater	5/23/2002 mg/l Groundwater	8/13/2002 mg/l Groundwater	11/19/2002 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	R	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	R	0.002 U	0.002 U

MW-0208-S2A	11/5/2009 mg/l Groundwater	5/23/2002 mg/l Groundwater	8/13/2002 mg/l Groundwater	11/19/2002 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	R	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	R	0.002 U	0.002 U

MW-0904-S2B	11/5/2009 mg/l Groundwater	11/9/2009 mg/l Groundwater
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

MW-0839-S2A	11/5/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0903-S3	11/9/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0904-S3	11/5/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-1001-S3	4/27/2010 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-1001-S2B	4/27/2010 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-1002-S3	4/27/2010 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-1002-S2B	4/27/2010 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-1002-S3/4	4/27/2010 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

SB-64-1001	1/14/2010 mg/l 11-15 Borehole Water	1/15/2009 mg/l 30-34 Borehole Water	1/15/2010 mg/l 41-45 Borehole Water
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

SB-64-1002	1/19/2010 mg/l 17-21 Borehole Water	1/19/2010 mg/l 24-28 Borehole Water	1/19/2010 mg/l 31-35 Borehole Water
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

SB-64-1003	1/13/2010 mg/l 18-22 Borehole Water	1/14/2010 mg/l 31-35 Borehole Water
VOC		
1,1-Dichloroethene	0.005 U	0.005 U/0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U/0.005 U
Tetrachloroethene	0.005 U	0.005 U/0.005 U
Trichloroethene	0.005 U	0.005 U/0.005 U
Vinyl Chloride	0.002 U	0.002 U/0.002 U

SB-64-1004	1/13/2010 mg/l 23-26 Borehole Water	1/13/2010 mg/l 27-31 Borehole Water	1/14/2010 mg/l 35-39 Borehole Water
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

KB-90	11/5/2009 mg/l 21-24 Borehole Water	11/5/2009 mg/l 28-32 Borehole Water	11/5/2009 mg/l 38-42 Borehole Water
VOC			
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.0035
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.001 U	0.001 U

KB-91	11/5/2009 mg/l 21-25 Borehole Water	11/9/2009 mg/l 30-34 Borehole Water	11/9/2009 mg/l 40-44 Borehole Water
VOC			
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.0013
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.001 U	0.001 U

SB-64-1005	1/20/2010 mg/l 22-26 Borehole Water	1/20/2010 mg/l 26.5-30.5 Borehole Water	1/20/2010 mg/l 33-37 Borehole Water
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

SB-64-1006	1/18/2010 mg/l 20-24 Borehole Water	1/18/2010 mg/l 33-37 Borehole Water
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

KB-92	11/9/2009 mg/l 20-24 Borehole Water	11/9/2009 mg/l 28-32 Borehole Water	11/9/2009 mg/l 36-40 Borehole Water
VOC			
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001 U	0.001 U	0.001 U
Trichloroethene	0.001 U	0.001 U	0.001 U
Vinyl Chloride	0.001 U	0.001 U	0.001 U

MW-170S	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.002
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.0047

MW-170D	11/3/2009 mg/l Groundwater
VOC	
1,1-Dichloroethene	0.001 U
cis-1,2-Dichloroethene	0.001 U
Tetrachloroethene	0.001 U
Trichloroethene	0.001 U
Vinyl Chloride	0.2

4032 Cossell Road	6/23/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

4130 W. Vermont Street	6/25/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

4019 Cossell Road	7/27/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

4046 W. Vermont Street	7/8/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

4012 Cossell Road	11/20/2009 mg/l Groundwater	12/2/2009 mg/l Groundwater
VOC		
1,1-Dichloroethene	0.00022 U	0.00022 U
cis-1,2-Dichloroethene	0.00016 U	0.00016 U
Tetrachloroethene	0.00029 U	0.00029 U
Trichloroethene	0.00029 U	0.00029 U
Vinyl Chloride	0.94	0.047

4017 Cossell Road	7/27/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

4016 W. Vermont Street	9/3/2009 mg/l Residential Water	9/10/2009 mg/l Residential Water	9/17/2009 mg/l Residential Water	11/20/2009 mg/l Residential Water
VOC				
1,1-Dichloroethene	0.00022 U	0.00022 U	0.00022 U	0.00022 U
cis-1,2-Dichloroethene	0.00016 U	0.00016 U	0.00016 U	0.00016 U
Tetrachloroethene	0.00029 U	0.00029 U	0.00029 U	0.00029 U
Trichloroethene	0.00029 U	0.00029 U	0.00029 U	0.00029 U
Vinyl Chloride	0.0056	0.036	0.036	0.043

4140 W. Vermont Street	7/22/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

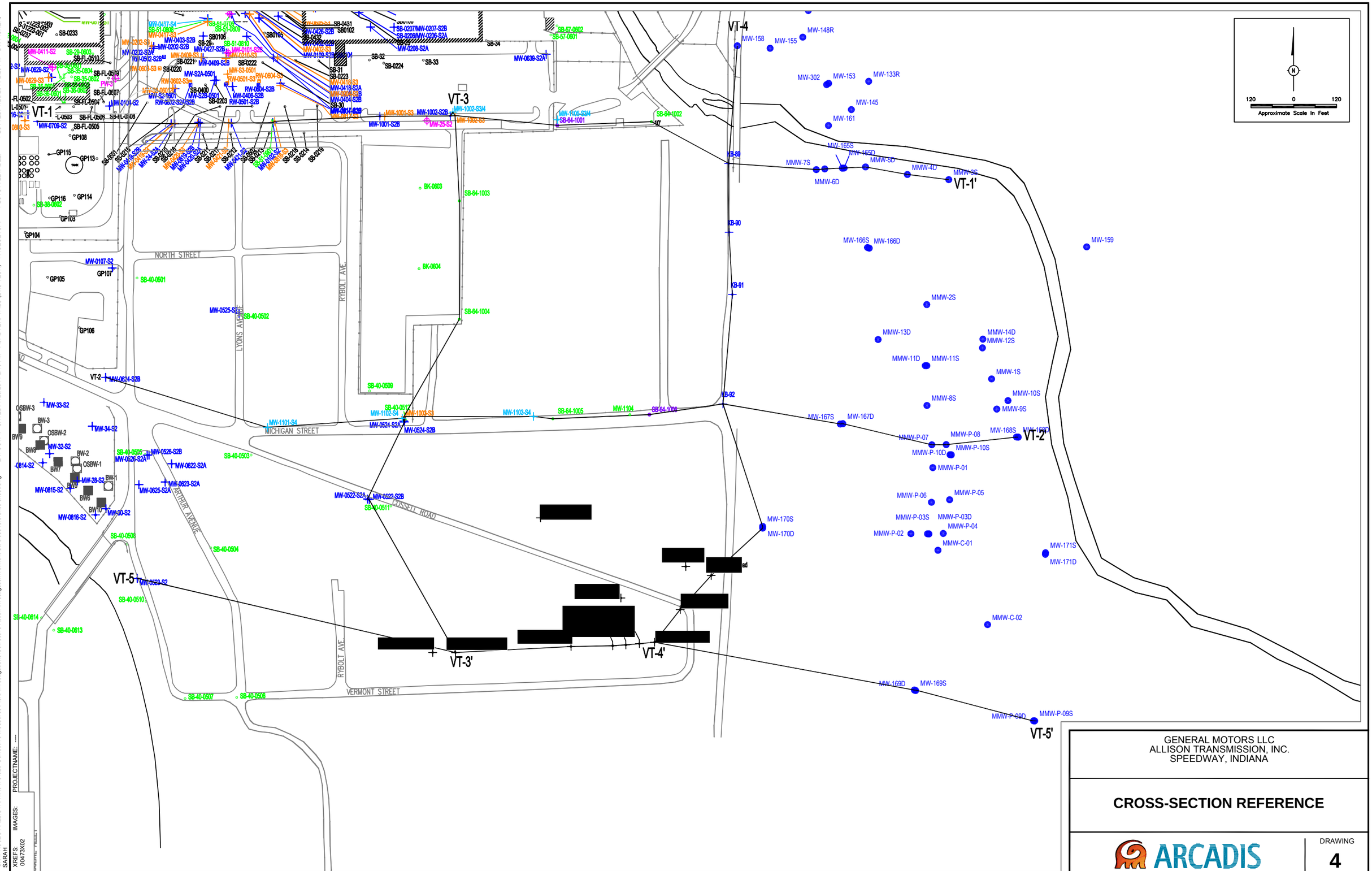
4018 Cossell Road	8/5/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

4060 W. Vermont Street	8/11/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

4044 W. Vermont Street	7/22/2009 mg/l Residential Water
VOC	
1,1-Dichloroethene	0.00022 U
cis-1,2-Dichloroethene	0.00016 U
Tetrachloroethene	0.00029 U
Trichloroethene	0.00029 U
Vinyl Chloride	0.00016 U

4042 W. Vermont Street	9/3/2009 mg/l Residential Water	9/10/2009 mg/l Residential Water	9/17/2009 mg/l Residential Water	11/20/2009 mg/l Residential Water
VOC				
1,1-Dichloroethene	0.00022 U	0.00022 U	0.00022 U	0.00022 U
cis-1,2-Dichloroethene	0.00016 U	0.00016 U	0.00016 U	0.00016 U
Tetrachloroethene	0.00029 U	0.00029 U	0.00029 U	0.00029 U
Trichloroethene	0.00029 U	0.00029 U	0.00029 U	0.00029 U
Vinyl Chloride	0.0073	0.00085	0.00099	0.00016 U

MW-169D	3/13/2006 mg/l Groundwater	11/28/2007 mg/l Groundwater	9/23/2008 mg/l Groundwater	11/3/2009 mg/l Groundwater
VOC				
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	0.001



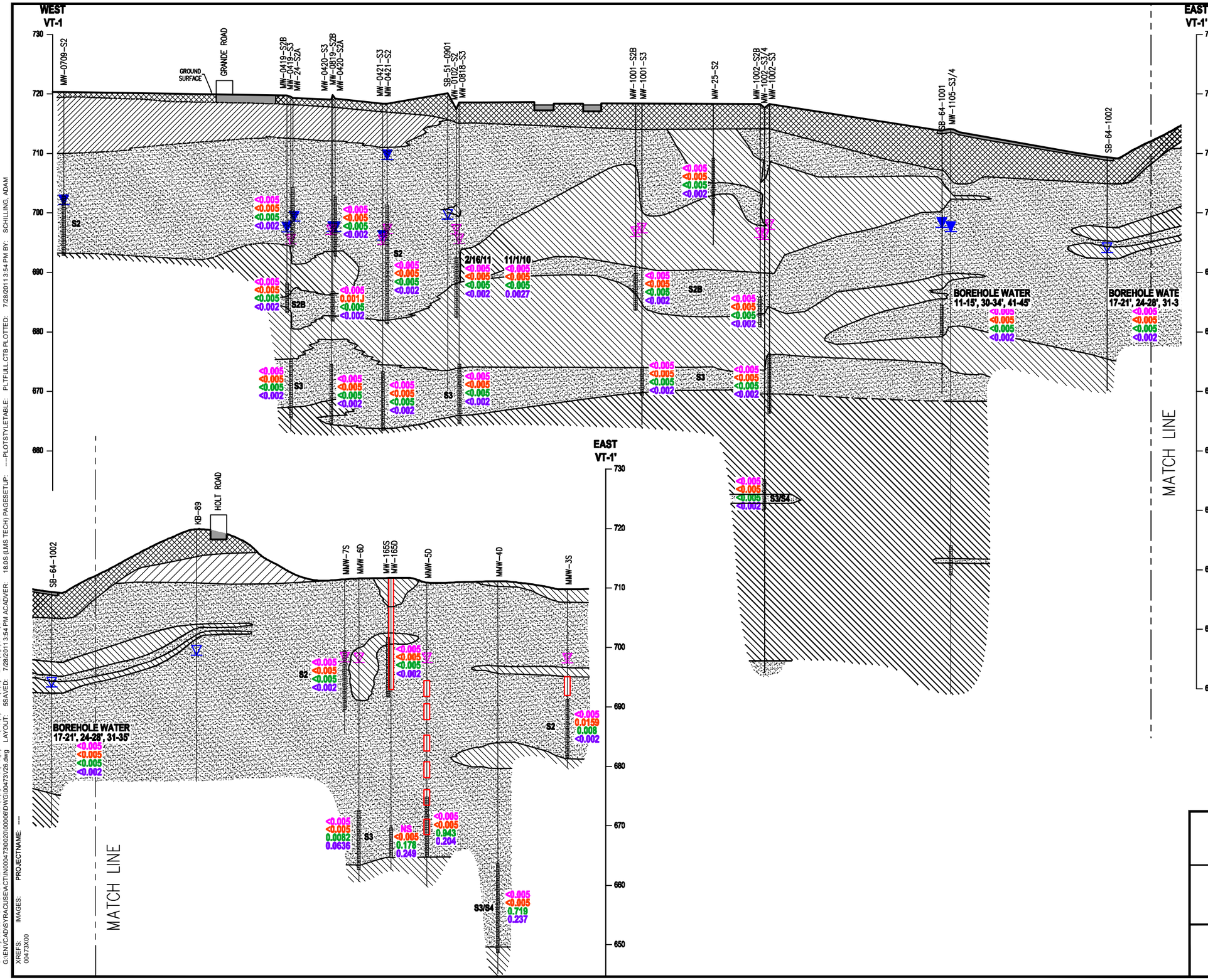
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

CROSS-SECTION REFERENCE

ARCADIS

DRAWING
4

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\APROJECT\ALLISTRN\IN0473\020-Corrective Measures\Field Investigations\Corrective Action Investigation\Vermont St. cross-reference sheet.dwg
SARAH
XREFS: 00473X02 IMAGES: PROJECTNAME: ----
LAYOUT: 4 SAVED: 7/29/2011 2:19 PM ACADVER: 17.2S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 7/29/2011 2:29 PM BY: FISHER.



LEGEND:

- ASPHALT/CONCRETE
- FILL/TOPSOIL
- STAINING
- PLASTIC CLAY
- SAND
- TILL
- MONITORING WELL SCREENED INTERVAL
- BLANK DRILLED (NO LOGGED LITHOLOGY)
- DEPTH TO WATER DATA (10/14/10) BY EPA
- DEPTH OF WATER DATA (10/15/10) BY ARCADIS
- DEPTH OF BOREHOLE WATER DATA (DATE INSTALLED)
- **S1/S2/S2A/S3** SATURATED SAND UNIT ID
- <0.005 PCE CONCENTRATION (µg/L)
- <0.005 TCE CONCENTRATION (µg/L)
- <0.005 CIS-1,2-DCE CONCENTRATION (µg/L)
- <0.002 VC CONCENTRATION (µg/L)

NOTES:

1. KB-89, KB-90, KB-91 USED SURFACE GROUND ELEVATION OF MW-158.
2. KB-92 USED SURFACE GROUND ELEVATION OF SB-64-1006.

0 16' 32'
VERTICAL SCALE

0 160' 320'
HORIZONTAL SCALE
V.E. 10X

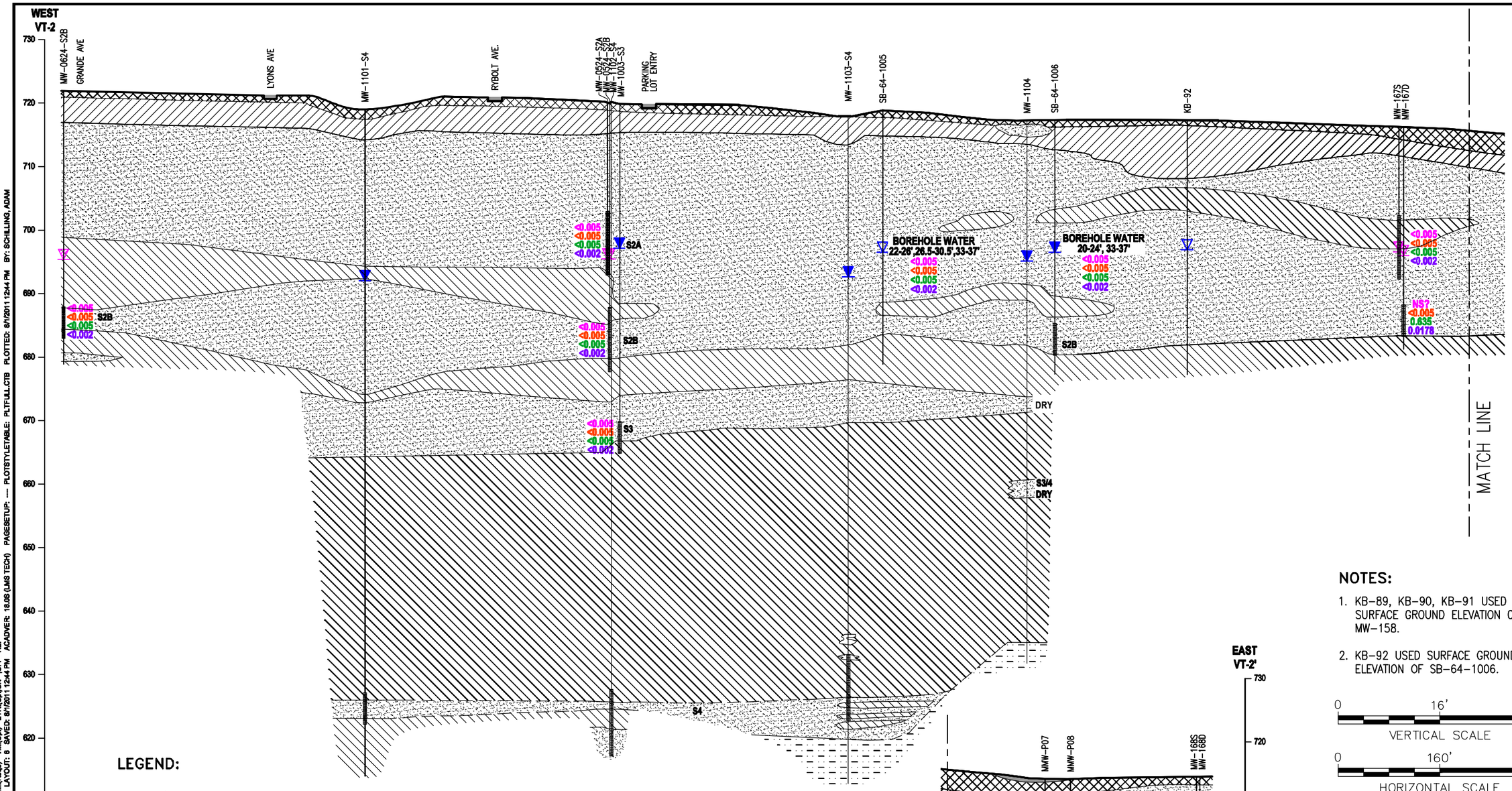
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

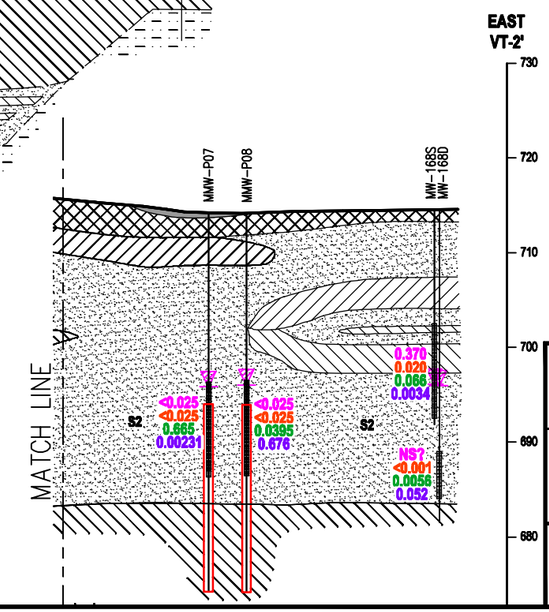
CROSS SECTION VT-1 - VT-1'

ARCADIS

DRAWING
5

CITY:Syracuse DIV/GROUP:Env-141 DB:AMS LD:(Opt) PIC:(Reqd) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\IN\00473\0020\00006\DWG\00473V26.dwg LAYOUT: SSAVED: 7/28/2011 3:54 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ----PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 7/28/2011 3:54 PM BY: SCHILLING, ADAM
XREFS: IMAGES: PROJECTNAME: ----
00473X00





NOTES:

1. KB-89, KB-90, KB-91 USED SURFACE GROUND ELEVATION OF MW-158.
2. KB-92 USED SURFACE GROUND ELEVATION OF SB-64-1006.

0 16' 32'
VERTICAL SCALE

0 160' 320'
HORIZONTAL SCALE

LEGEND:

- ASPHALT/CONCRETE
- FILL/TOPSOIL
- PLASTIC CLAY
- SAND
- TILL
- WEATHERED SHALE
- MONITORING WELL SCREENED INTERVAL
- BLANK DRILLED (NO LOGGED LITHOLOGY)
- DEPTH TO WATER DATA (10/14/10) BY EPA
- DEPTH TO WATER DATA (10/15/10) BY ARCADIS
- DEPTH TO BOREHOLE WATER DATA (DATE INSTALLED)
- S2A/S2B/S3 SATURATED SAND UNIT ID
- <0.005 PCE CONCENTRATION (µg/L)
- <0.005 TCE CONCENTRATION (µg/L)
- <0.005 CIS-1,2-DCE CONCENTRATION (µg/L)
- <0.002 VC CONCENTRATION (µg/L)

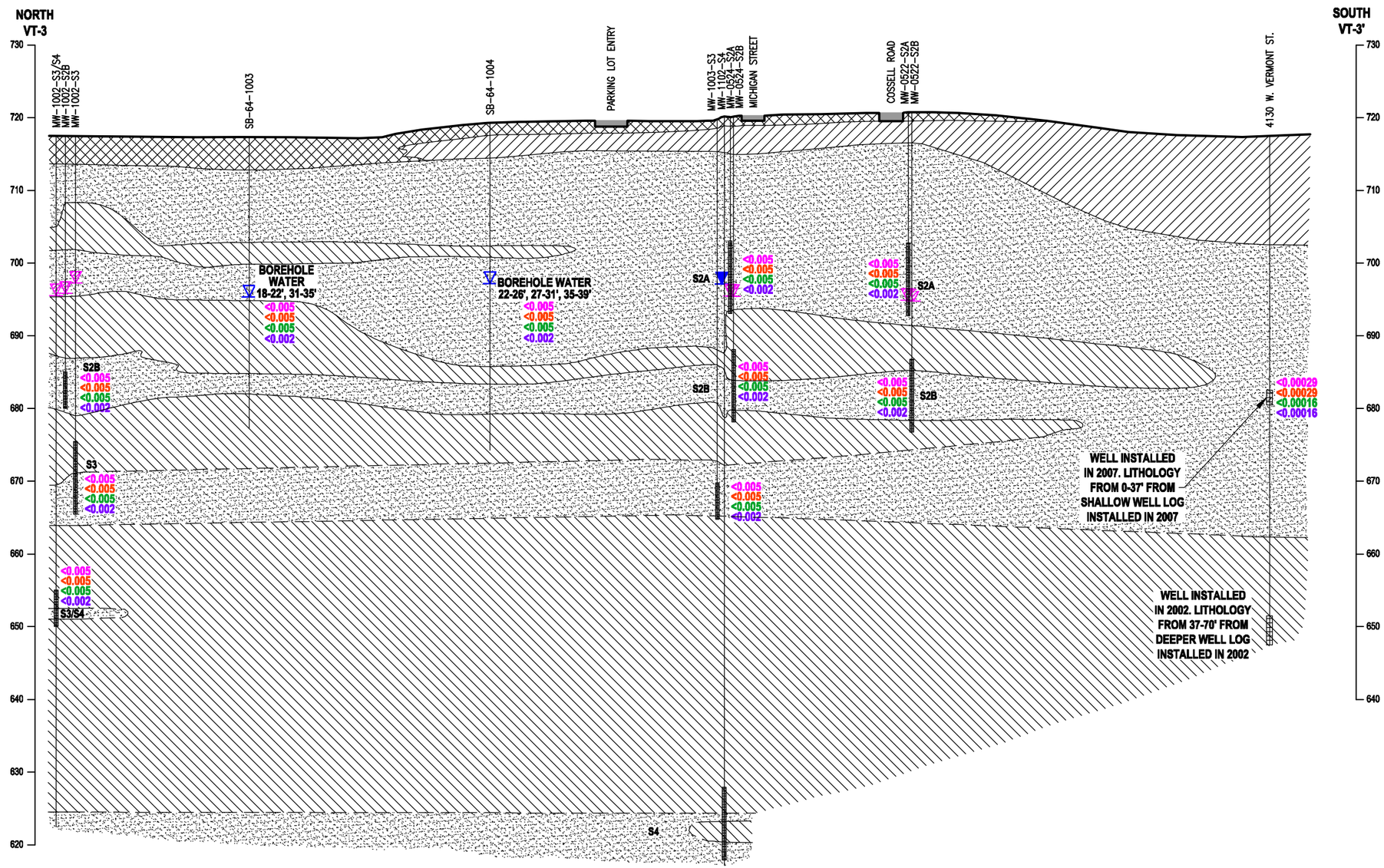
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

CROSS SECTION VT-2 - VT-2'

ARCADIS

DRAWING
6

CITY:Syracuse DIV/GROUP:Env-141 DB:AMS LD:(Opt) PIC:(Req) PM:(Req) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\N0004730\02\00008\DWG\00473VZT.dwg LAYOUT: 8 SAVED: 8/1/2011 12:44 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/1/2011 12:44 PM BY: SCHILLING, ADAM
XREFS: 00473X00 IMAGES: VT-2_1.jpg VT-2_2.jpg VT-2_3.jpg PROJECTNAME: -



LEGEND:

- ASPHALT/CONCRETE
- FILL/TOPSOIL
- PLASTIC CLAY
- SAND
- TILL
- MONITORING WELL SCREENED INTERVAL
- DEPTH TO WATER DATA (10/14/10) BY EPA
- DEPTH TO WATER DATA (10/15/10) BY ARCADIS
- DEPTH TO BOREHOLE WATER ELEVATION (DATE INSTALLED)
- **S2A/S2B/S3** SATURATED SAND UNIT ID
- <0.005 PCE CONCENTRATION (µg/L)
- <0.005 TCE CONCENTRATION (µg/L)
- <0.005 CIS-1,2-DCE CONCENTRATION (µg/L)
- <0.002 VC CONCENTRATION (µg/L)

NOTES:

1. KB-89, KB-90, KB-91 USED SURFACE GROUND ELEVATION OF MW-158.
2. KB-92 USED SURFACE GROUND ELEVATION OF SB-64-1006.

0 16' 32'
VERTICAL SCALE

0 160' 320'
HORIZONTAL SCALE
V.E. 10X

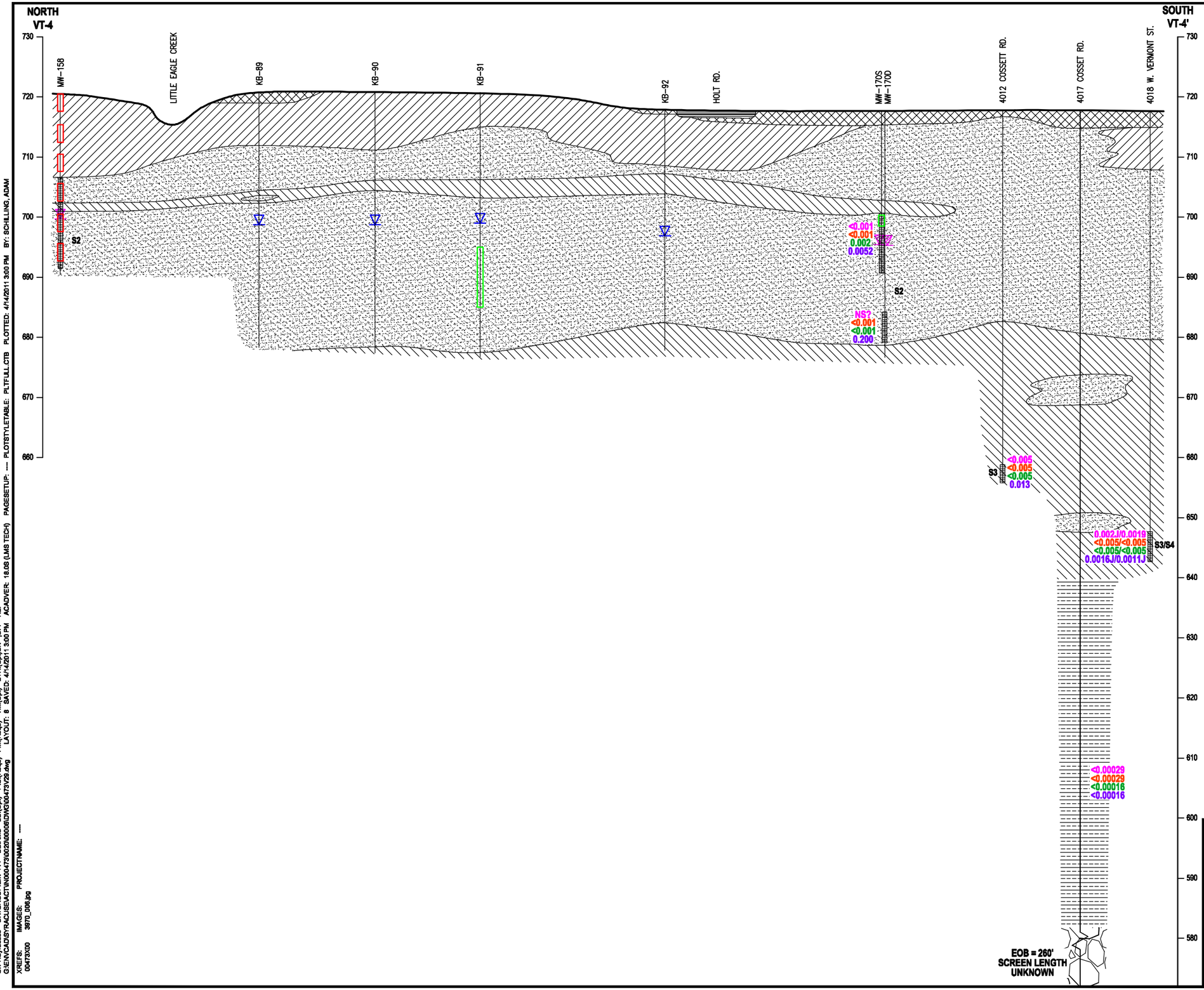
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

CROSS SECTION VT-3 - VT-3'

ARCADIS

DRAWING
7

CITY:Syracuse DIV/GROUP:Env-141 DB:AMS LD:(Opt) PIC:(Reqd) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIN\00047\00020\00006\DWG\00473V28.dwg LAYOUT: 7 SAVED: 8/1/2011 12:45 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---
XREFS: 00473V00 IMAGES: VT-3_1.jpg VT-3_2.jpg PROJECTNAME: ---
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/1/2011 12:45 PM BY: SCHILLING, ADAM



LEGEND:

- ASPHALT/CONCRETE
- FILL/TOPSOIL
- STAINING
- PLASTIC CLAY
- SAND
- TILL
- SHALE
- STONE
- MONITORING WELL SCREENED INTERVAL
- REFUSAL – NO LOGGED LITHOLOGY
- BLANK DRILLED – NO LOGGED LITHOLOGY
- DEPTH TO WATER DATA (10/14/10) BY EPA
- DEPTH TO BOREHOLE WATER DATA (DATE INSTALLED)
- **S2A/S2B/S3** SATURATED SAND UNIT ID
- <0.005 PCE CONCENTRATION (µg/L)
- <0.005 TCE CONCENTRATION (µg/L)
- <0.005 CIS-1,2-DCE CONCENTRATION (µg/L)
- <0.002 VC CONCENTRATION (µg/L)

NOTES:

1. KB-89, KB-90, KB-91 USED SURFACE GROUND ELEVATION OF MW-158.
2. KB-92 USED SURFACE GROUND ELEVATION OF SB-64-1006.

0 16' 32'
VERTICAL SCALE

0 160' 320'
HORIZONTAL SCALE

V.E. 10X

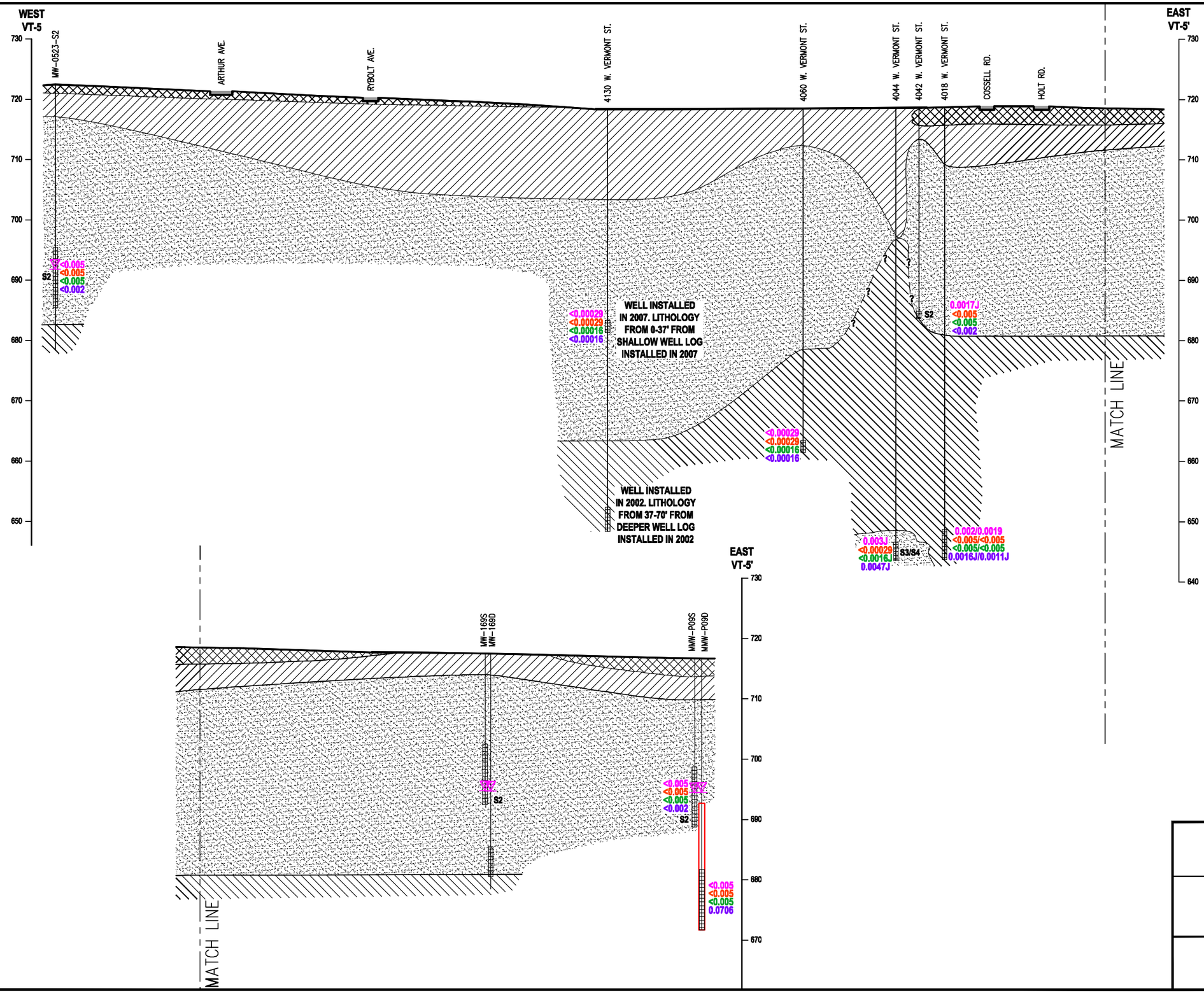
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

CROSS SECTION VT-4 - VT-4'

ARCADIS

DRAWING
8

CITY:Syracuse DIV/GROUP:Env-141 DB:AMS LD:(Opt) PIC:(Reqd) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\N\00047300\20000008\DWG\00473V29.dwg LAYOUT: 8 SAVED: 4/14/2011 3:00 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 4/14/2011 3:00 PM BY: SCHILLING, ADAM
XREFS: 00473X00 IMAGES: 3970_D08.jpg PROJECTNAME: ----



LEGEND:

- ASPHALT/CONCRETE
- FILL/TOPSOIL
- PLASTIC CLAY
- SAND
- TILL
- MONITORING WELL SCREENED INTERVAL
- BLANK DRILLED – NO LOGGED LITHOLOG
- DEPTH TO WATER DATA (10/14/10) BY EPA
- S2A/S2B/S3 — SATURATED SAND UNIT ID
- <0.005 — PCE CONCENTRATION (µg/L)
- <0.005 — TCE CONCENTRATION (µg/L)
- <0.005 — CIS–1,2–DCE CONCENTRATION (µg/L)
- <0.002 — VC CONCENTRATION (µg/L)

NOTES:

1. KB–89, KB–90, KB–91 USED SURFACE GROUND ELEVATION OF MW–158.
2. KB–92 USED SURFACE GROUND ELEVATION OF SB–64–1006.

0 16' 32'
VERTICAL SCALE

0 160' 320'
HORIZONTAL SCALE
V.E. 10X

GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

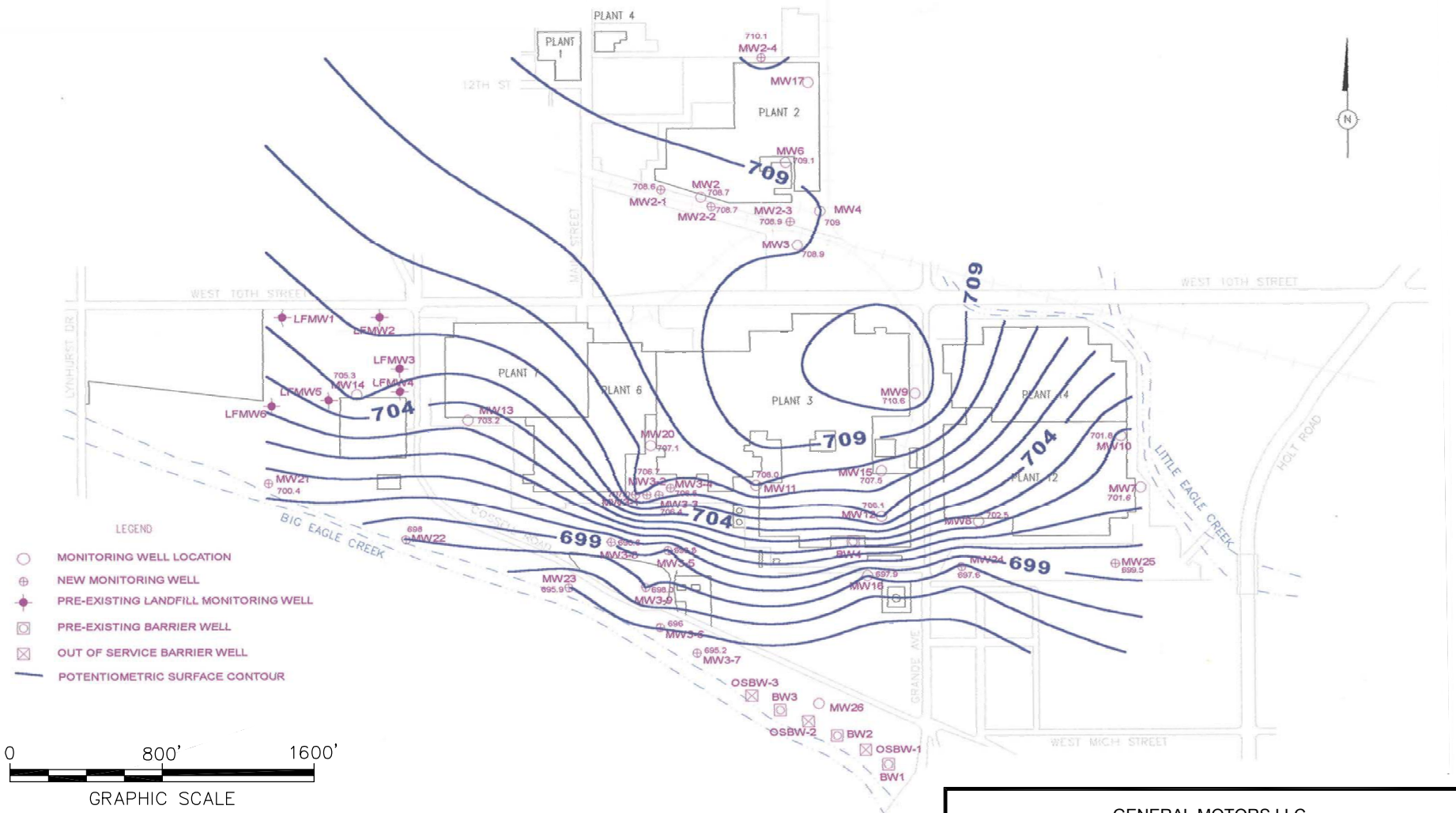
CROSS SECTION VT-5 - VT-5'

ARCADIS

DRAWING
9

CITY:Syracuse DIV/GROUP:Env-141 DB:AMS LD:(Opt) PIC:(Reqd) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\N00473\0020\00005\DWG\00473V30.dwg LAYOUT: 9 SAVED: 4/15/2011 8:32 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 4/15/2011 8:34 AM BY: SCHILLING, ADAM
XREFS: 00473X00 IMAGES: 3970_007.jpg PROJECTNAME: —

CITY:Syracuse DIV/GROUP:EnvCAD DB:A.Schilling LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\IN000473\0020\00006\DWG\00473W01.dwg LAYOUT: 10 SAVED: 4/15/2011 9:58 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 4/15/2011 10:04 AM BY: SCHILLING, ADAM
XREFS: IMAGES: PROJECTNAME: ----

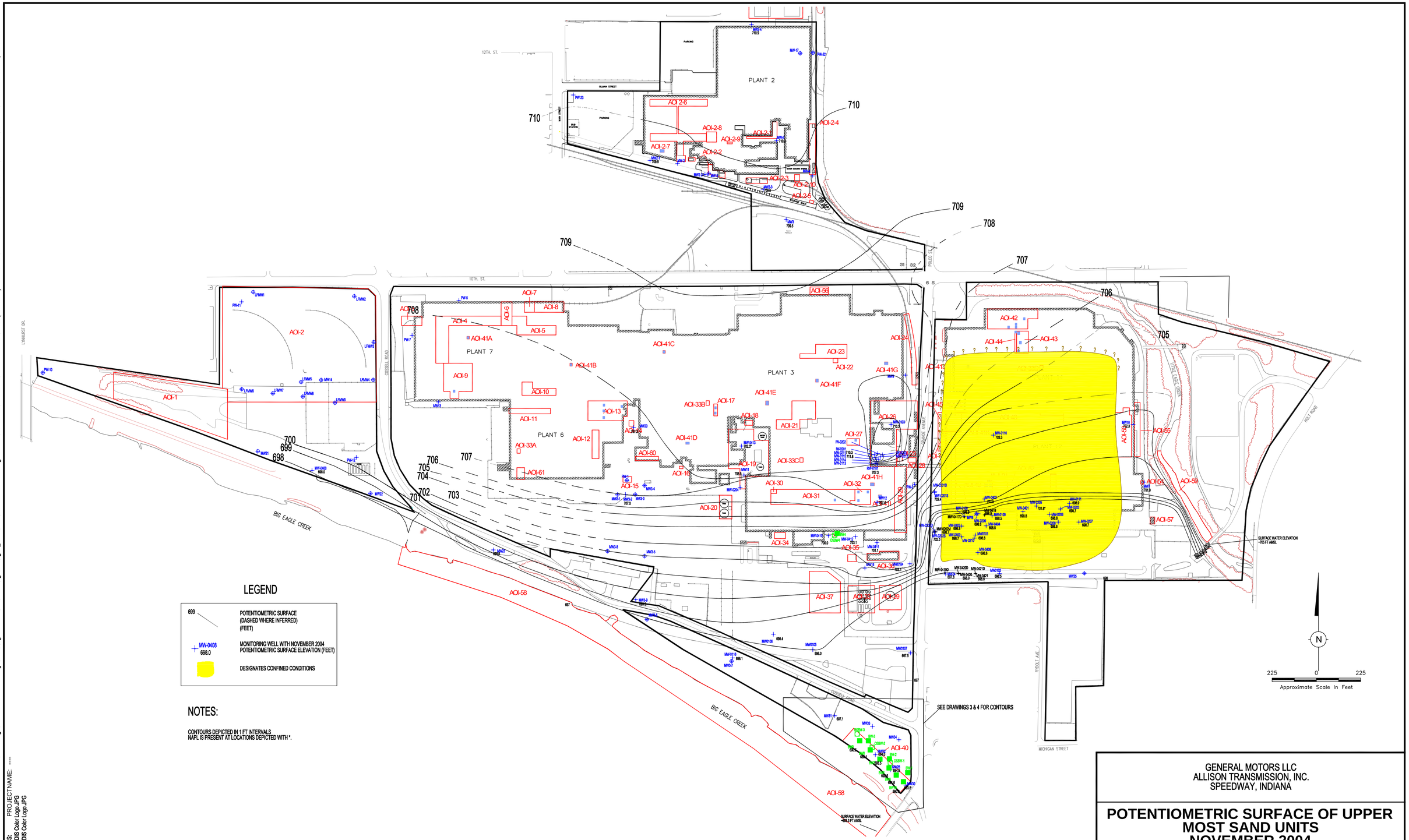


GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

WELL LOCATION & POTENTIOMETRIC SURFACE MAP

ARCADIS

DRAWING
10



LEGEND

699	POTENTIOMETRIC SURFACE (DASHED WHERE INFERRED) (FEET)
MW-0408 698.0	MONITORING WELL WITH NOVEMBER 2004 POTENTIOMETRIC SURFACE ELEVATION (FEET)
	DESIGNATES CONFINED CONDITIONS

NOTES:

CONTOURS DEPICTED IN 1 FT INTERVALS
NAPL IS PRESENT AT LOCATIONS DEPICTED WITH *.

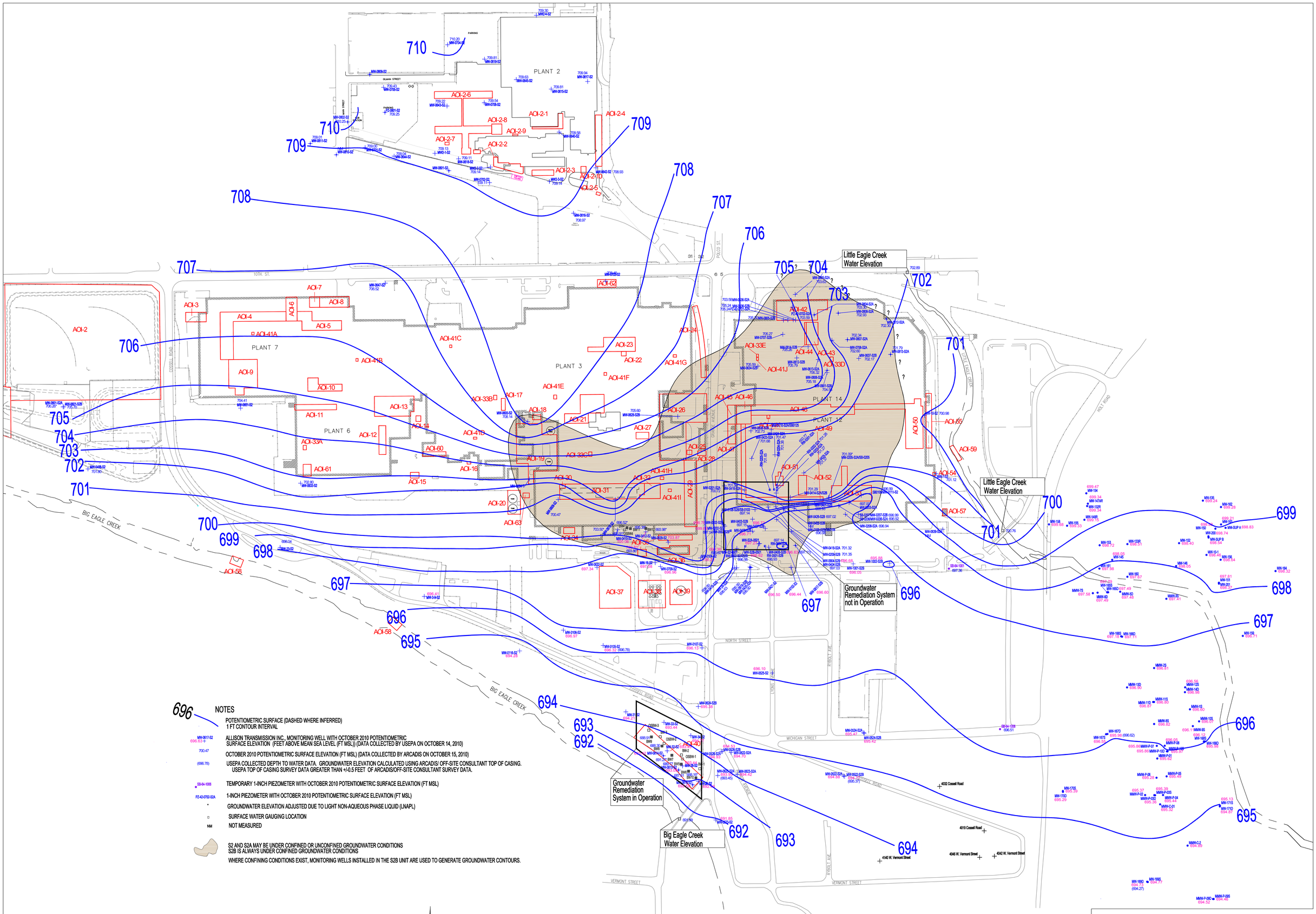
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

POTENTIOMETRIC SURFACE OF UPPER MOST SAND UNITS NOVEMBER 2004

ARCADIS

DRAWING 11

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\APROJECT\ALLISTRN\IN\04730\20-Corrective Measures\Field Investigations\Vermont Street Investigation\Privileged and Confidential\Drawings\Drawing 11_Potentiometric Surface November.dwg LAYOUT: 11 SAVED: 4/15/2011 8:13 AM ACADVER: 17.0S (LMS TECH) PAGESETUP:---- PLOTSTYLETABLE:---- PLOTTED: 4/15/2011 8:14 AM BY: GASTINEAU-LYONS, HEATHER
XREFS: IMAGES: PROJECTNAME: ----
AR-HA-R-04 ARCADIS Color Logo.JPG
04473X02 ARCADIS Color Logo.JPG
IN000473-BASE_2000

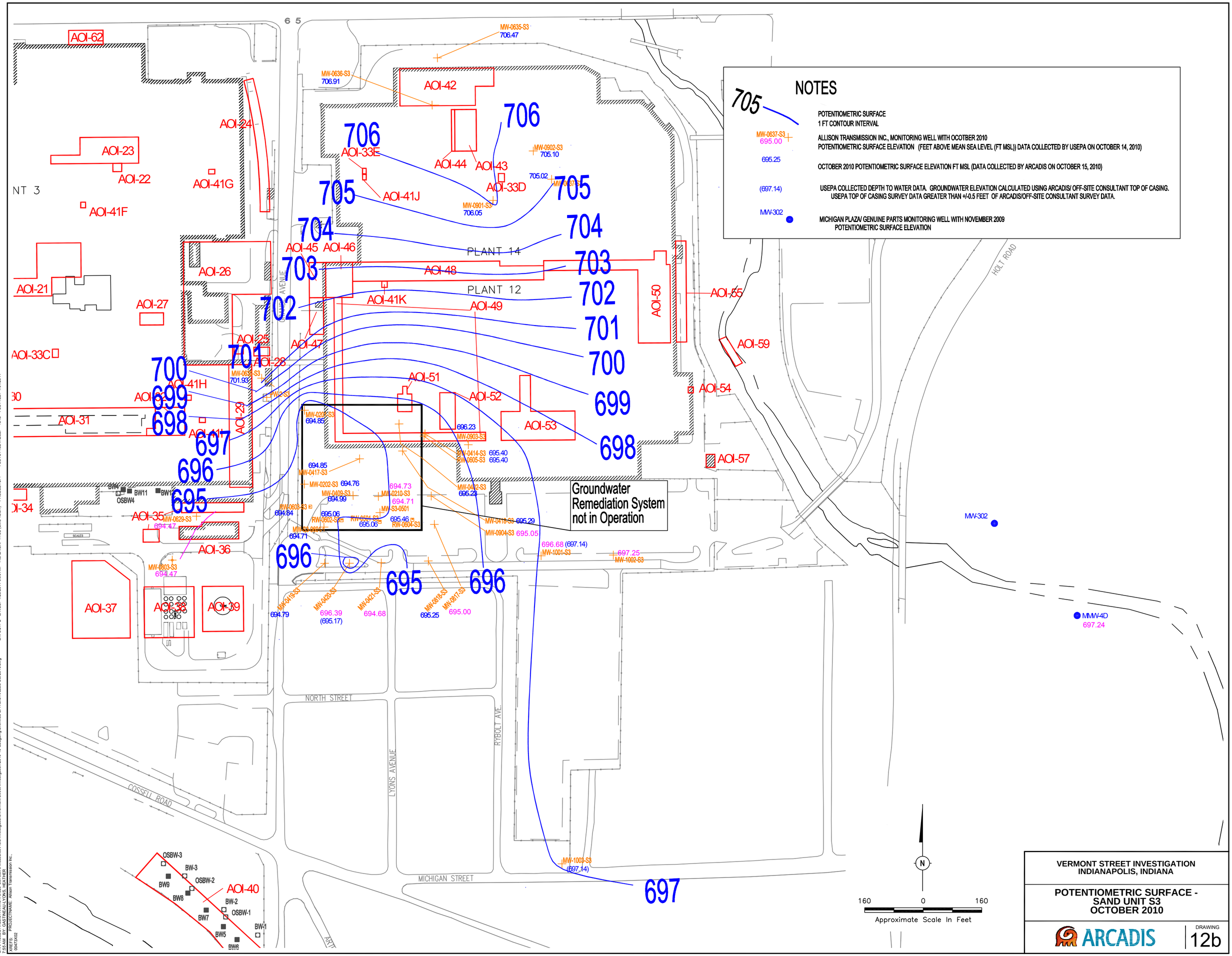


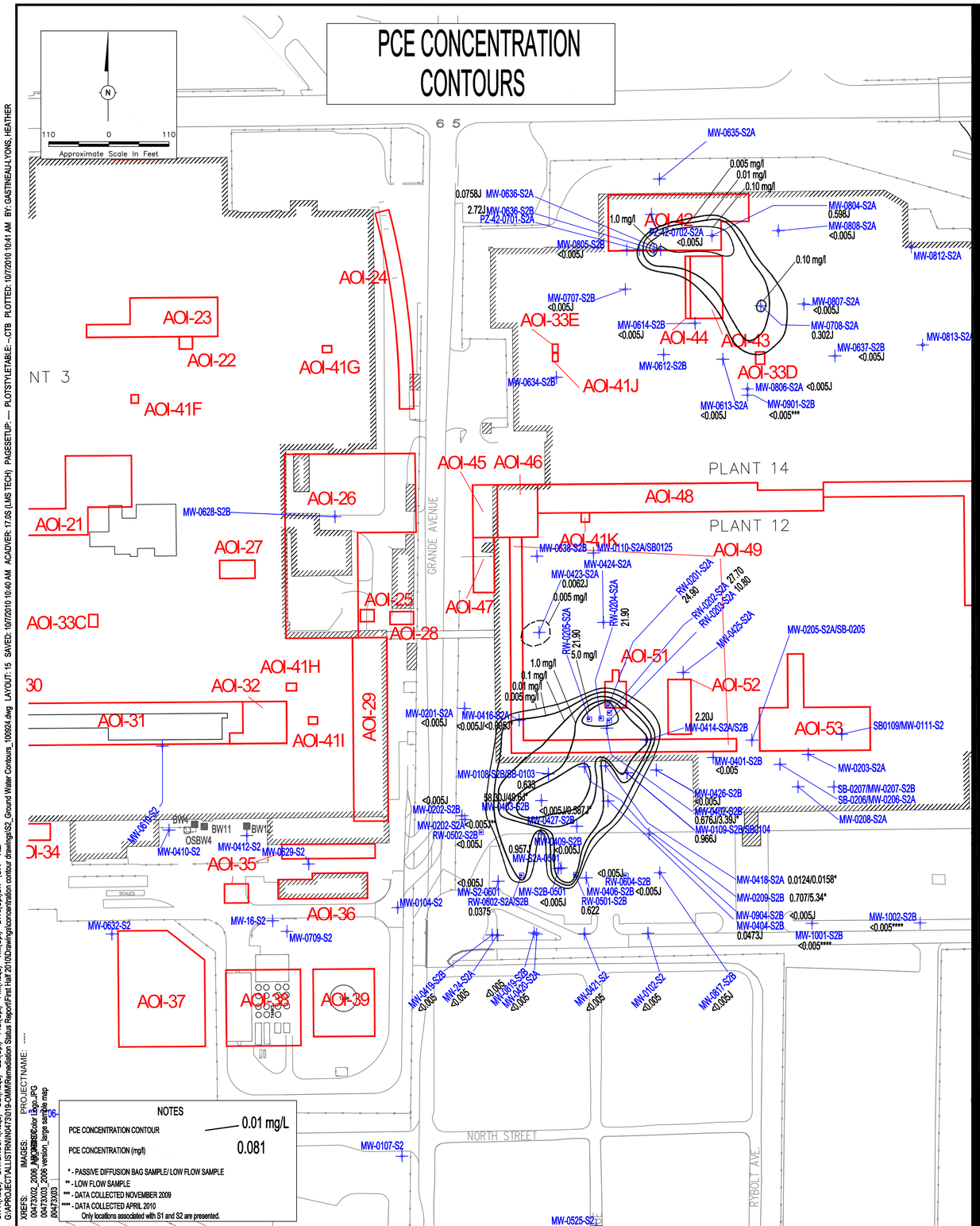
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

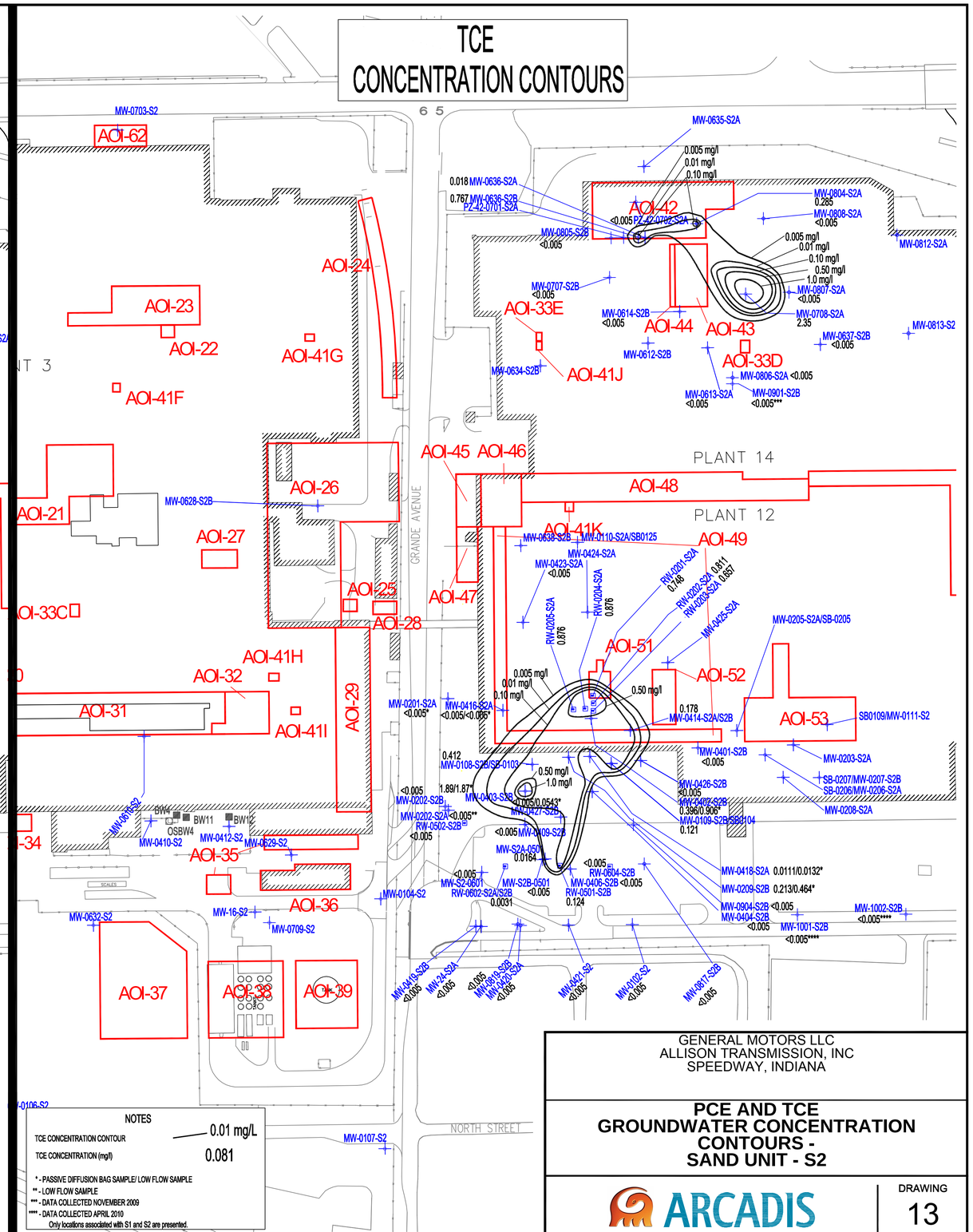
POTENTIOMETRIC SURFACE - SHALLOW SAND UNIT S2 OCTOBER 2010

ARCADIS

DRAWING 12a


NOTES
705
POTENTIOMETRIC SURFACE
1 FT CONTOUR INTERVAL
MW-0637-S3
695.00
ALLISON TRANSMISSION INC., MONITORING WELL WITH OCOTBER 2010
POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL (FT MSL)) DATA COLLECTED BY USEPA ON OCTOBER 14, 2010)
695.25
OCTOBER 2010 POTENTIOMETRIC SURFACE ELEVATION FT MSL (DATA COLLECTED BY ARCADIS ON OCTOBER 15, 2010)
(697.14)
USEPA COLLECTED DEPTH TO WATER DATA. GROUNDWATER ELEVATION CALCULATED USING ARCADIS/ OFF-SITE CONSULTANT TOP OF CASING.
USEPA TOP OF CASING SURVEY DATA GREATER THAN +/-0.5 FEET OF ARCADIS/OFF-SITE CONSULTANT SURVEY DATA.
MW-302
MICHIGAN PLAZA/ GENUINE PARTS MONITORING WELL WITH NOVEMBER 2009
POTENTIOMETRIC SURFACE ELEVATION
Groundwater
Remediation System
not in Operation
PLANT 14
PLANT 12
NORTH STREET
MICHIGAN STREET
LYONS AVENUE
RYBOLT AVE.
COSSELL ROAD
HOLT ROAD
160 0 160
Approximate Scale In Feet
N
VERMONT STREET INVESTIGATION
INDIANAPOLIS, INDIANA
POTENTIOMETRIC SURFACE -
SAND UNIT S3
OCTOBER 2010
ARCADIS
DRAWING
12b





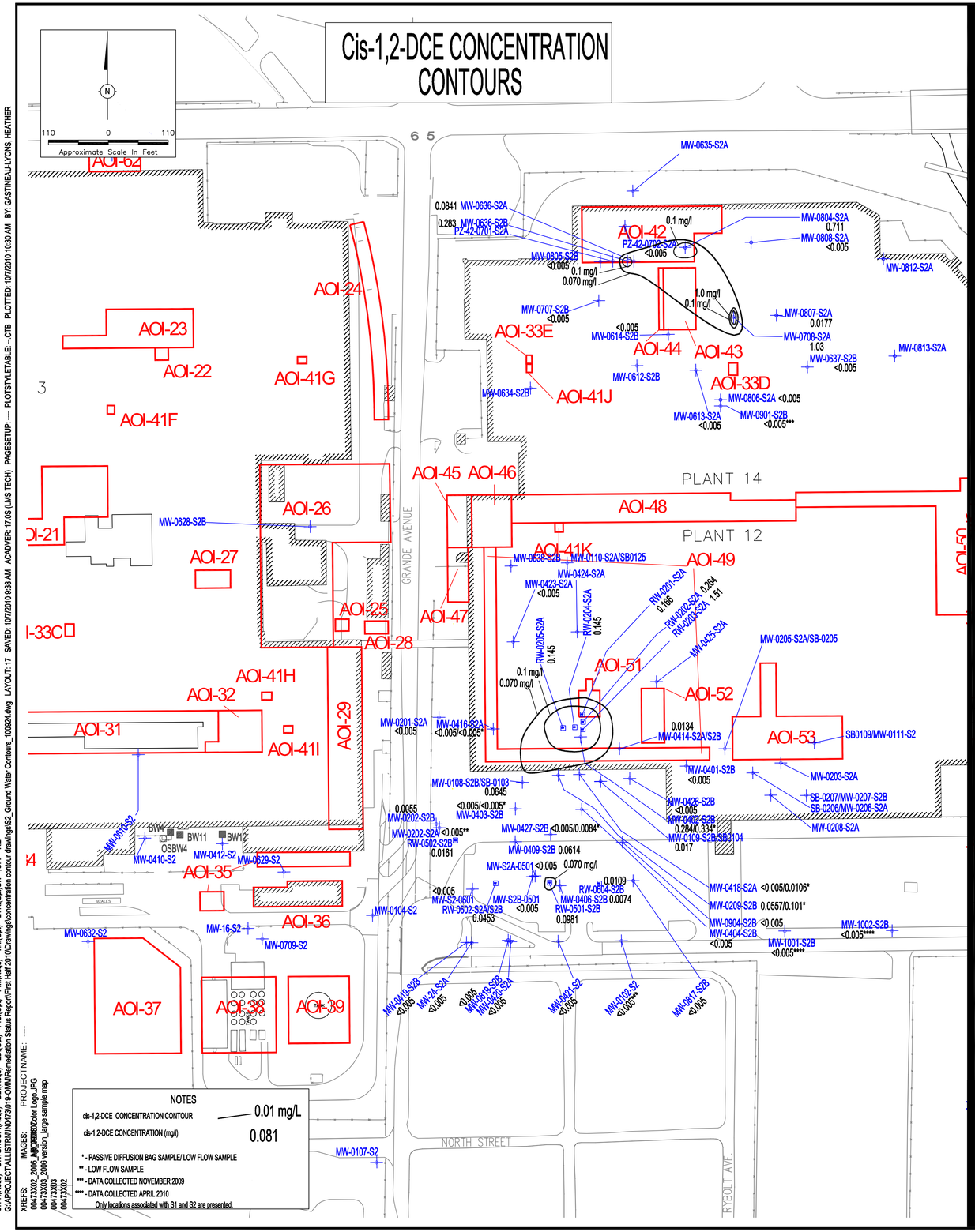
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC
SPEEDWAY, INDIANA

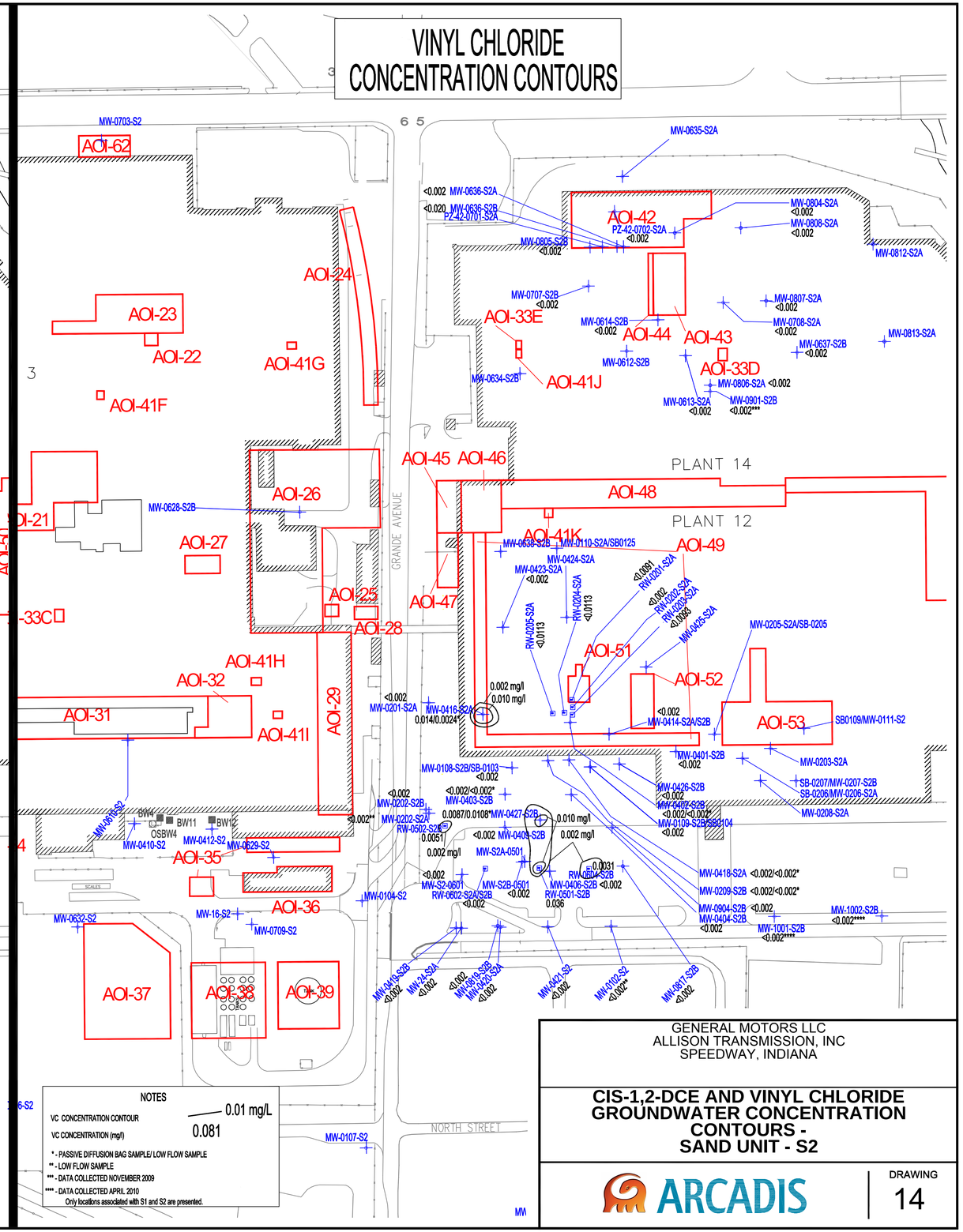
PCE AND TCE GROUNDWATER CONCENTRATION CONTOURS - SAND UNIT - S2

ARCADIS

DRAWING 13

CITY:(Reed) DIV/GROUP:(Reed) DB:(Reed) LD:(Opt) PIC:(Opt) PM:(Reed) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\APROJECT\ALLISTRN\IN\47301\5-OM\Remediation Status Report\First Half 2010\Drawings\concentration contour drawings\S2_Ground Water Contours_100924.dwg LAYOUT: 15 SAVED: 10/7/2010 10:40 AM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: --CTB PLOTTED: 10/7/2010 10:41 AM BY: GASTINEAU-LYONS, HEATHER
XREFS: 00473X02_2006_Aerial 00473X03_2006 version_large sample map 0947X003
IMAGES: Arcadis Color Logo.JPG
PROJECTNAME: ----





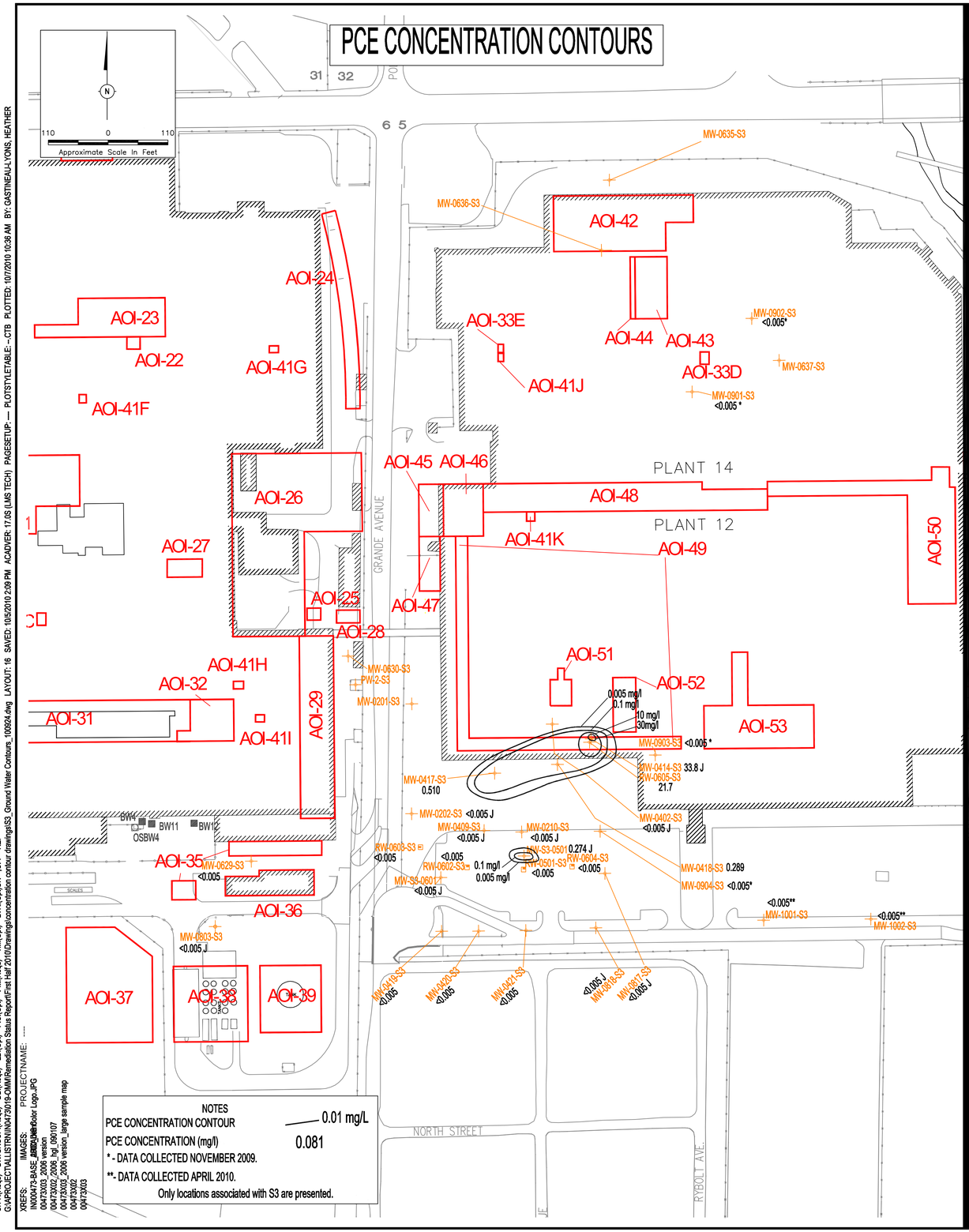
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC
SPEEDWAY, INDIANA

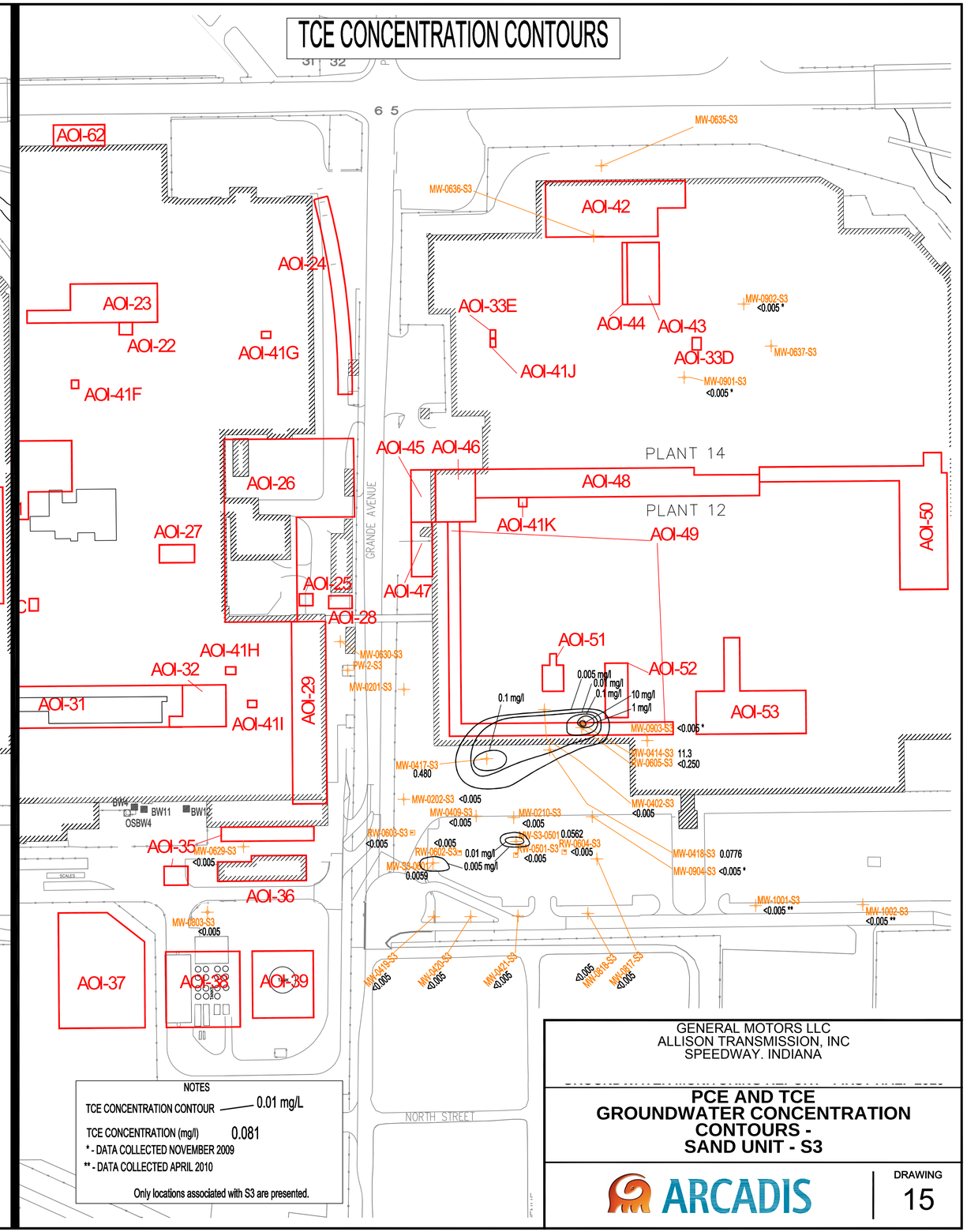
CIS-1,2-DCE AND VINYL CHLORIDE GROUNDWATER CONCENTRATION CONTOURS - SAND UNIT - S2

ARCADIS

DRAWING 14

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\PROJECT\ALLISTRN\IN\473015-O\IM\Remediation Status Report\First Half 2010\Drawings\concentration contour drawings\S2_Ground Water Contours_100924.dwg LAYOUT: 17 SAVED: 10/7/2010 9:38 AM ACADVER: 17.0S (LMS TECH) PAGESETUP:---- PLOTSTYLETABLE:---- CTB PLOTTED: 10/7/2010 10:30 AM BY: GASTINEAU-LYONS, HEATHER
XREFS: 0047SX02_2006_AOI_Outline IMAGES: 0047SX02_2006_AOI_Outline_Color Logo.JPG
0047SX03 0047SX03 version_large sample map
0047SX03 0047SX02 PROJECTNAME: ----





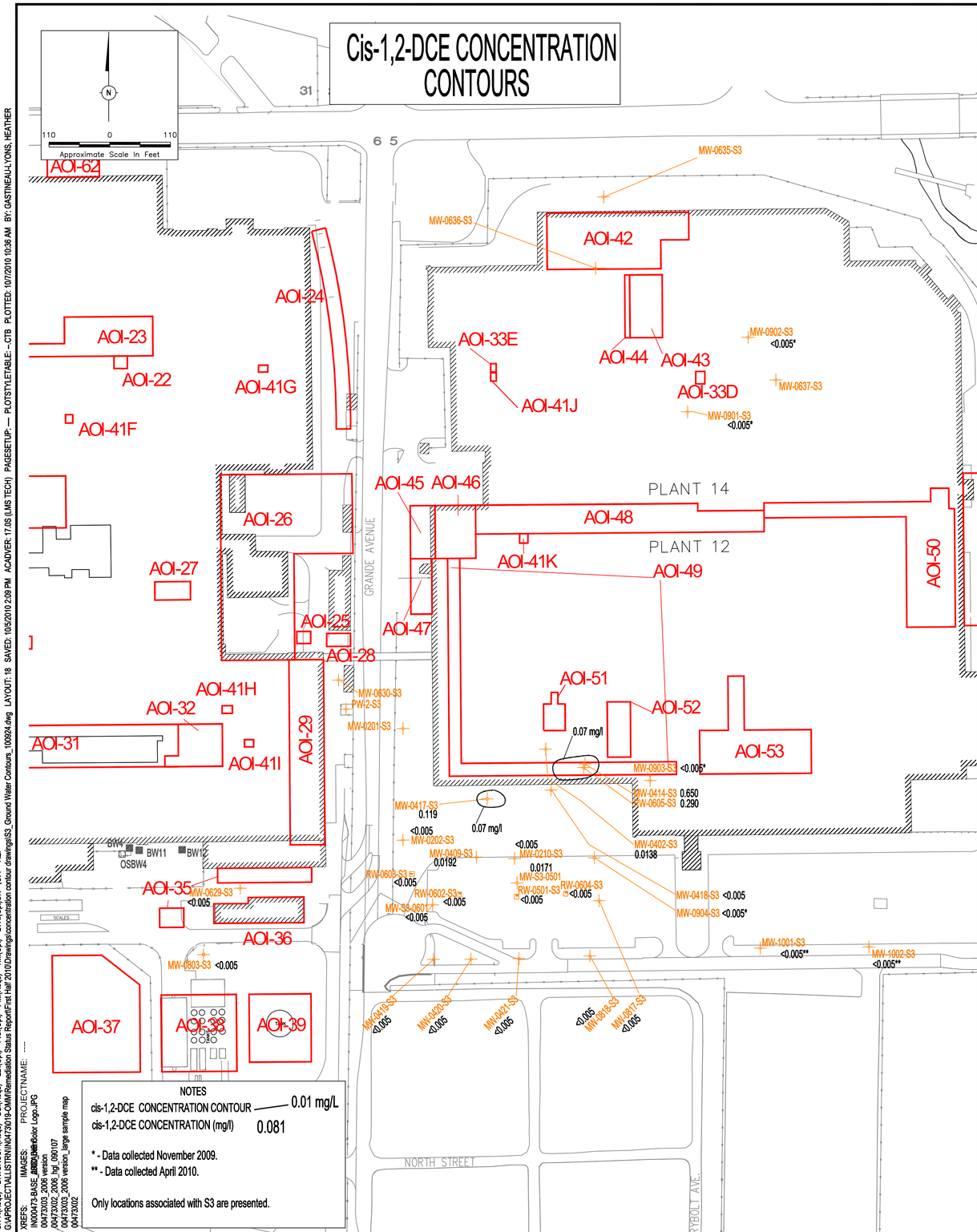
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC
SPEEDWAY. INDIANA

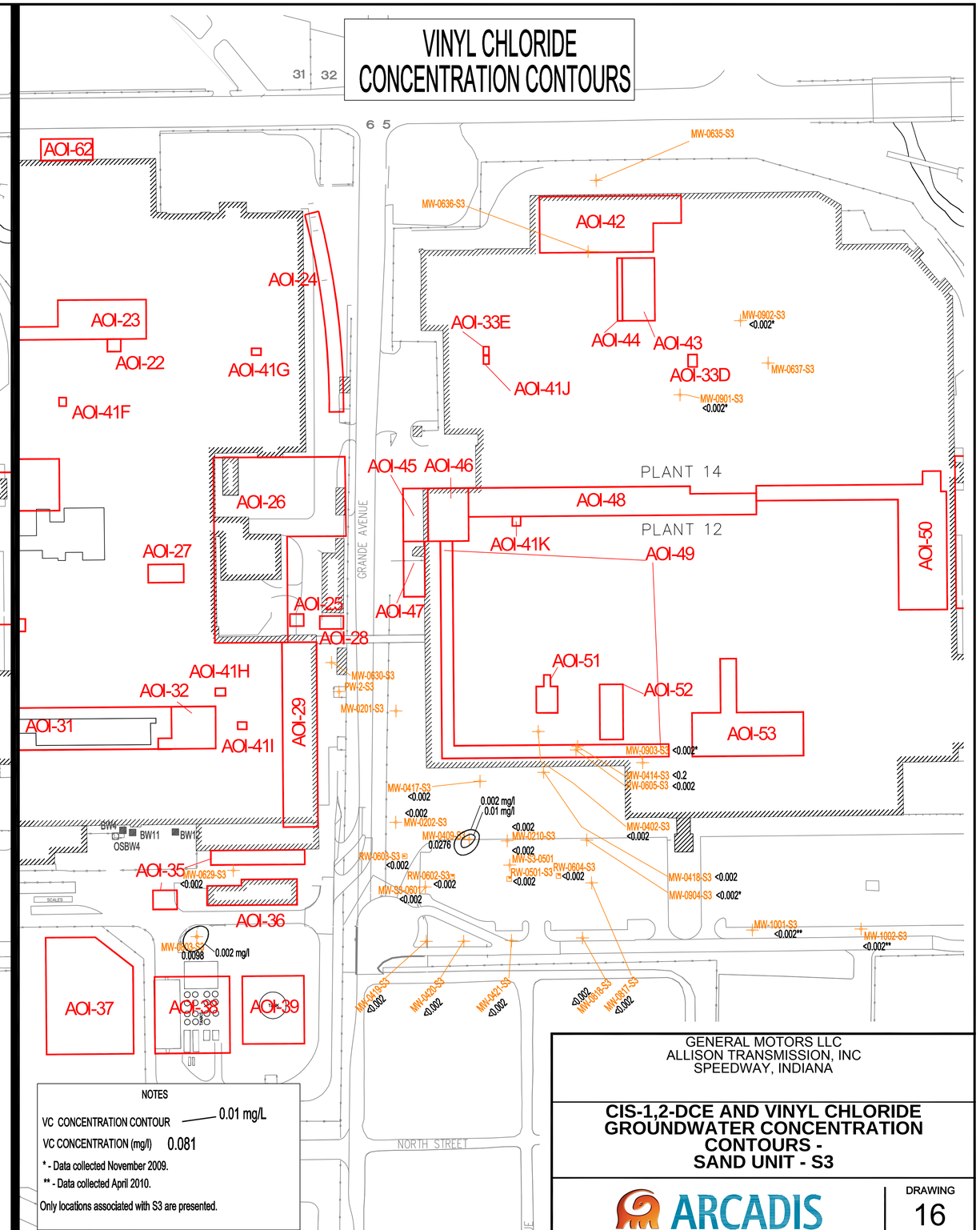
PCE AND TCE GROUNDWATER CONCENTRATION CONTOURS - SAND UNIT - S3

ARCADIS

DRAWING 15

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\APROJECT\ALLISTRN\IN0473\019-OMM\Remediation Status Report\First Half 2010\Drawings\concentration contour drawings\S3_Ground Water Contours_100924.dwg LAYOUT: 16 SAVED: 10/5/2010 2:09 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: --.CTB PLOTTED: 10/7/2010 10:36 AM BY: GASTINEAU-LYONS, HEATHER
XREFS: IN000473-BASE_2006 IN000473-Color Logo.JPG
IMAGES: PROJECTNAME: ----
00473X03_2006 version
00473X02_2006_hgl_090107
00473X03_2006 version_large sample map
00473X02
00473X03





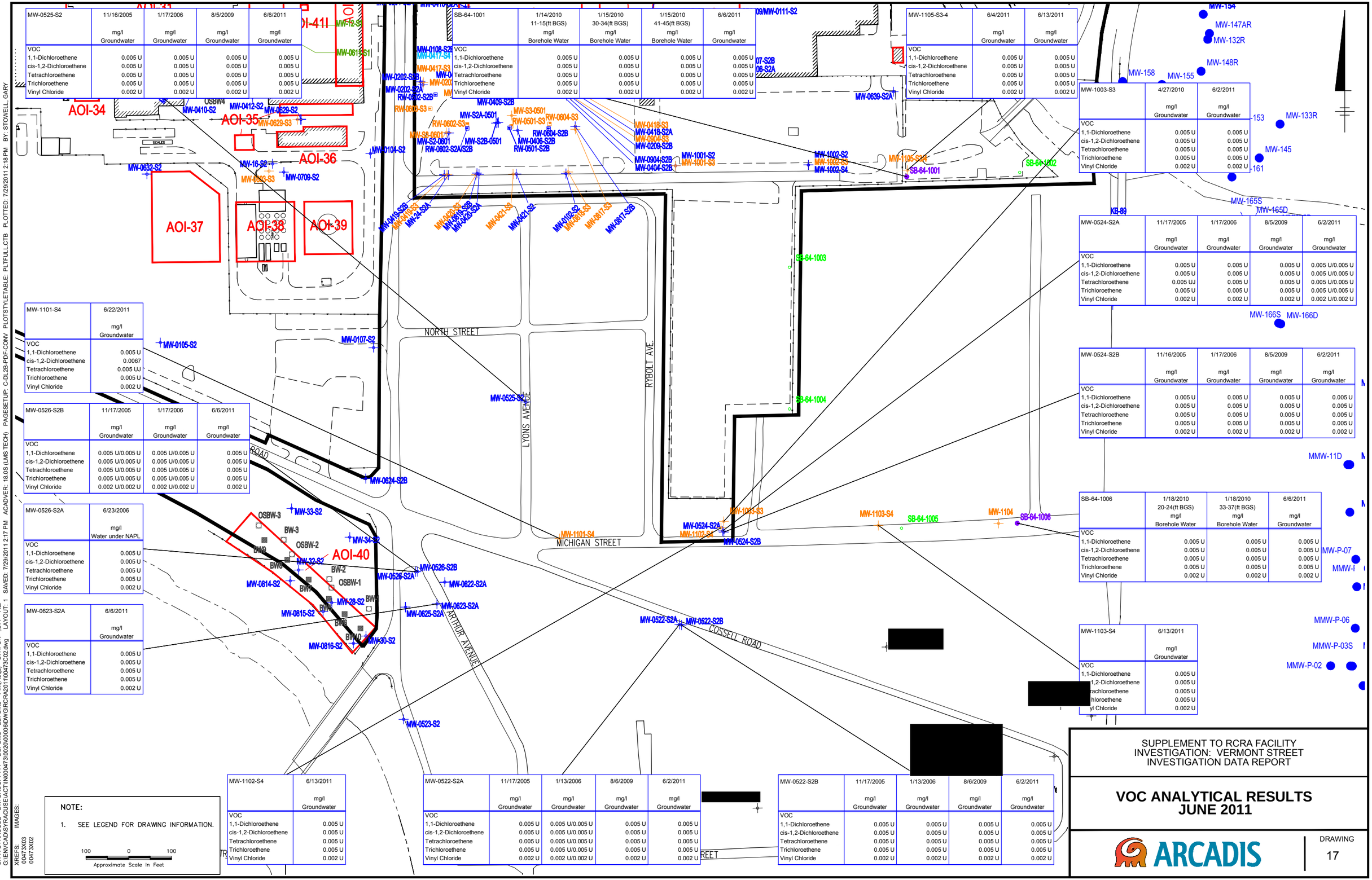
GENERAL MOTORS LLC
ALLISON TRANSMISSION, INC
SPEEDWAY, INDIANA

CIS-1,2-DCE AND VINYL CHLORIDE GROUNDWATER CONCENTRATION CONTOURS - SAND UNIT - S3

ARCADIS

DRAWING
16

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ARPROJECT\ALLISTRN\N0473019-OMM\Remediation Status Report\First Half 2010\Drawings\concentration contour drawings\S3_Ground Water Contours_100924.dwg LAYOUT: 18 SAVED: 10/5/2010 2:09 PM ACADVER: 17.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: --CTB PLOTTED: 10/7/2010 10:38 AM BY: GASTINEAU-LYONS, HEATHER
XREFS: N000473-BASE_2010 Color Logo.JPG 00473X03_2006 version 00473X02_2006_hgl_090107 00473X03_2006 version_large sample map 00473X02
IMAGES: PROJECTNAME: ----



MW-0525-S2	11/16/2005	1/17/2006	8/5/2009	6/6/2011
	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U	0.002 U

SB-64-1001	1/14/2010 11-15(ft BGS)	1/15/2010 30-34(ft BGS)	1/15/2010 41-45(ft BGS)	6/6/2011
	mg/l Borehole Water	mg/l Borehole Water	mg/l Borehole Water	mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U	0.002 U

MW-1105-S3-4	6/4/2011	6/13/2011
	mg/l Groundwater	mg/l Groundwater
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

MW-1003-S3	4/27/2010	6/2/2011
	mg/l Groundwater	mg/l Groundwater
VOC		
1,1-Dichloroethene	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U

MW-0524-S2A	11/17/2005	1/17/2006	8/5/2009	6/2/2011
	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U/0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U/0.005 U
Tetrachloroethene	0.005 UJ	0.005 U	0.005 U	0.005 U/0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U/0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U	0.002 U/0.002 U

MW-0524-S2B	11/16/2005	1/17/2006	8/5/2009	6/2/2011
	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U	0.002 U

SB-64-1006	1/18/2010 20-24(ft BGS)	1/18/2010 33-37(ft BGS)	6/6/2011
	mg/l Borehole Water	mg/l Borehole Water	mg/l Groundwater
VOC			
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U

MW-1103-S4	6/13/2011
	mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-1101-S4	6/22/2011
	mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.0067
Tetrachloroethene	0.005 UJ
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0526-S2B	11/17/2005	1/17/2006	6/6/2011
	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater
VOC			
1,1-Dichloroethene	0.005 U/0.005 U	0.005 U/0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U/0.005 U	0.005 U/0.005 U	0.005 U
Tetrachloroethene	0.005 U/0.005 U	0.005 U/0.005 U	0.005 U
Trichloroethene	0.005 U/0.005 U	0.005 U/0.005 U	0.005 U
Vinyl Chloride	0.002 U/0.002 U	0.002 U/0.002 U	0.002 U

MW-0526-S2A	6/23/2006
	mg/l Water under NAPL
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0623-S2A	6/6/2011
	mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-1102-S4	6/13/2011
	mg/l Groundwater
VOC	
1,1-Dichloroethene	0.005 U
cis-1,2-Dichloroethene	0.005 U
Tetrachloroethene	0.005 U
Trichloroethene	0.005 U
Vinyl Chloride	0.002 U

MW-0522-S2A	11/17/2005	1/13/2006	8/6/2009	6/2/2011
	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	0.005 U/0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U/0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U/0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U/0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U/0.002 U	0.002 U	0.002 U

MW-0522-S2B	11/17/2005	1/13/2006	8/6/2009	6/2/2011
	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater	mg/l Groundwater
VOC				
1,1-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
cis-1,2-Dichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Tetrachloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Trichloroethene	0.005 U	0.005 U	0.005 U	0.005 U
Vinyl Chloride	0.002 U	0.002 U	0.002 U	0.002 U

NOTE:

1. SEE LEGEND FOR DRAWING INFORMATION.

100 0 100
Approximate Scale In Feet

SUPPLEMENT TO RCRA FACILITY INVESTIGATION: VERMONT STREET INVESTIGATION DATA REPORT

VOC ANALYTICAL RESULTS JUNE 2011

ARCADIS

DRAWING 17

CITY: SYRACUSE DIV/GROUP: 141 DB: GMS LD: GMS PM:(Reqd) LYR: ON=*;OFF=*REF
G:\ENVCAD\SYRACUSE\ACT\IN\00473\0020\00006\DWG\RCRA\2011\00473C02.dwg LAYOUT: 1 SAVED: 7/29/2011 2:17 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: C-DL2B-PDF-CONV PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 7/29/2011 2:18 PM BY: STOWELL, GARY
XREFS: 00473X03 00473X02 IMAGES:

Table 1. Marion County Health Department Summary of Qualitatve Analytical Results, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

Address	Well?	Well Depth in Feet	Well Log?	Sample Date	Comments	1st Recheck	Comments	2nd Recheck	Comments
[redacted]									
					Vacant				
	Y	52	Y		Vacant				
	Y			6 23 09	E.coli	7/20/2009			
	Y	40	Y	6 17 09	E. coli/coliform	7/20/2009			
	Y			6 23 09	Bact/Chem OK				
	Y			6 29 09	coliform	7/20/2009			
	Y	40	Y	6 17 09	E. coli/coliform				
	Y	59	Y	6 17 09	coiform				
	Y	51	Y	6 17 09	E. coli/coliform	6 29 09	coliform	7/8/2009	coliform + E. coli
	Y	41	Y						
	Y	54	Y						
	Y	62	Y						
	Y	36	Y						
	Y	37	Y	6 25 09	Chemical only- OK				
	Y	50	Y						
	Y	40	Y						
	Y	57	Y	6 11 09	coliform	7/6/2009	OK, chem & bact		
	Y	70	Y		Vacant				
				7/8/2009	Chemical OK				
	Y	75	Y						
	Y	35	Y	6 11 09	vinyl chl/coliform 2.1 ug/L	6 25 09	vinyl chl 1.5 ug/L	7/20/2009	
	Y	75	Y	6/11/2009	vinyl chl 4.5 ug/L				

Geometric Mean	49.82640563
Average Well Depth	51.41176471

Pink properties are completed.	

Table 2. Summary of Analytical Results, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

			Microbiology		VOCs (ug/L)						Metals (ug/L)							Anions (mg/L)						Wet Chemistry
	Sample Date	Sample Description	Total Coliform	Escherichia coli	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Styrene	Arsenic	Barium	Cadmium	Chromium	Mercury	Iron	Lead	Fluoride	Chloride	Nitrite	Nitrate	Ortho-Phosphate	Sulfate	Turbidity (NTU)
Resident Address - Marion County Health Department																								
	11/20/2009	Outside	Absent	Absent	<0.22	<0.16	<0.29	<0.29	**54.0**	0.97	1.0	<0.47	0.69	<0.27	<0.13	N/A	<0.10	0.22	352	<0.010	0.26	<0.063	68.7	0.030
[redacted]	12/2/2009	Outside	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**62.7**	0.66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2010	NP	N/A	N/A	<5.0	<5.0	<5.0	<5.0	**13.0**	<5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[redacted]	7/27/2009	Outside Spigot	Present	Absent	<0.22	<0.16	<0.29	<0.29	<0.16		<0.29	<0.47	<0.17	<0.27	<0.13	NP	<0.10	2.5	46.5	<0.017	<0.017	<0.045	4.0	0.56
[redacted]	8/5/2009	Kitchen Sink	Present	Absent	<0.22	<0.16	<0.29	<0.29	<0.16		<0.29	68.6	<0.17	<0.27	<0.13	NP	2.0	0.27	143	<0.017	0.70	<0.045	69.1	0.17
[redacted]	7/27/2009	Kitchen	Present	Absent	<0.22	<0.16	<0.29	<0.29	<0.16		<0.29	68.9	<0.17	<0.27	<0.13	**359**	<0.10	<0.012	158	<0.017	<0.017	<0.045	80.7	0.17
	6/17/2009	NP	Present	Present	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
[redacted]	6/29/2009	NP	Present	NP	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	7/8/2009	NP	Present	Present	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
[redacted]	6/17/2009	NP	Present	NP	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
[redacted]	6/17/2009	NP	Present	Present	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	6/29/2009	NP	Present	NP	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
[redacted]	7/20/2009	NP	NP	NP	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	7/7/2010	NP	NA	NA	<5.0	<5.0	1.5J	<5.0	<5.0	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
[redacted]	6/23/2009	Kitchen Sink	Absent	Absent	<0.22	<0.16	<0.29	<0.29	<0.16		<0.29	57.3	<0.17	<0.27	<0.13	N/A	<0.10	<0.012	75.8	<0.017	0.73	<0.045	57.6	0.020
[redacted]	6/17/2009	NP	Present	Present	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	7/20/2009	NP	NP	NP	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
[redacted]	6/23/2009	NP	NP	Present	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	7/20/2009	NP	NP	NP	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	6/11/2009	Kitchen Sink	Absent	Absent	<0.22	<0.16	<0.29	<0.29	**4.5**		<0.29	139	<0.17	<0.27	<0.13	**363**	<0.10	<0.012	203	<0.017	<0.017	<0.045	77.4	0.30
	7/27/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**4.3**		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/5/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**4.6**		<0.29	139	<0.17	<0.27	<0.13	N/A	<0.10	0.22	213	<0.017	<0.017	<0.045	69.1	0.21
	8/12/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**5.6**		<0.29	139	<0.17	<0.27	<0.13	N/A	<0.10	0.22	213	<0.017	<0.017	<0.045	69.1	0.21
	8/20/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**5.2**		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/27/2009	O/S	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**1.3**		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[redacted]	9/3/2009	NP	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**4.5**		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2009	NP	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**3.6**		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/17/2009	Outside-H/S	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**3.6**		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/30/2009	outside	N/A	N/A	<0.22	<0.16	<0.29	<0.29	**2.3**	<0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2010	NP	N/A	N/A	<5.0	<5.0	2.0J	<5.0	1.6J	<5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2010	NP	N/A	N/A	<5.0	<5.0	1.9J	<5.0	1.1J	<5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/11/2009	O/S	Present	Absent	<0.22	<0.16	<0.29	<0.29	**2.1**		<0.29	99.8	<0.17	<0.27	<0.13	N/A	<0.10	<0.012	155	<0.017	0.71	<0.045	73.3	0.21
	6/25/2009	Outside Tap	N/A	N/A	<0.22	<0.16	<0.29	<0.29	1.5		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2009	Outside	N/A	N/A	<0.22	<0.16	<0.29	<0.29	0.77		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/12/2009	Outside Spigot	N/A	N/A	<0.22	<0.16	<0.29	<0.29	1.2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/27/2009	O/S	N/A	N/A	<0.22	<0.16	<0.29	<0.29	1.8		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[redacted]	9/3/2009	Outside	N/A	N/A	<0.22	<0.16	<0.29	<0.29	0.73		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/10/2009	Outside Spigot	N/A	N/A	<0.22	<0.16	<0.29	<0.29	0.85		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/17/2009	Outside-h/s	N/A	N/A	<0.22	<0.16	<0.29	<0.29	0.59		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/30/2009	Outside;FB cap broken	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16	<0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/7/2010	NP	N/A	N/A	<5.0	<5.0	1.7J	<5.0	<5.0	<5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 2. Summary of Analytical Results, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

			Microbiology		VOCs (ug/L)						Metals (ug/L)							Anions (mg/L)						Wet Chemistry
	Sample Date	Sample Description	Total Coliform	Escherichia coli	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Styrene	Arsenic	Barium	Cadmium	Chromium	Mercury	Iron	Lead	Fluoride	Chloride	Nitrite	Nitrate	Ortho-Phosphate	Sulfate	Turbidity (NTU)
[redacted]	7/22/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16		<0.29	78.9	<0.17	<0.27	<0.13	**483**	<0.10	<0.012	168	<0.017	8.5	<0.045	72.4	0.84
[redacted]	7/8/2009	Outside	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[redacted]	6/11/2009	Kitchen Sink	Present	Absent	<0.22	<0.16	<0.29	<0.29	<0.16		<0.29	66.8	<0.17	<0.27	<0.13	N/A	<0.10	<0.012	138	<0.017	4.0	<0.045	71.6	0.070
	7/6/2009	NP	NP	NP	NP	NP	NP	NP	NP		NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
[redacted]	6/25/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[redacted]	7/22/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16		<0.29	100	<0.17	<0.27	<0.13	N/A	<0.10	<0.012	138	<0.017	0.33	<0.045	74	0.58
	7/7/2010	NP	N/A	N/A	<5.0	<5.0	2.2J	<5.0	2.1J	<5.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Monitoring Wells - General Motors Company																								
MW-0102-S2B	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-0522-S2A	8/6/2009		N/A	N/A	<5	<5	<5	<5	<2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-0522-S2B	8/6/2009		N/A	N/A	<5	<5	<5	<5	<2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-0524-S2A	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-0524-S2B	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-0525-S2B	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-0818-S3	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Maximum Contaminant Level (MCL)					**7**	**70**	**5**	**5**	**2**		**10**	**2000**	**5**	**100**	**2**	**300***	**15**	**4**	**250***	**1**	**10**	**NE**	**250***	**5****

Notes:
Residential water samples collected and analyzed by Marion County Health Department.
Residential analytical results shared with General Motors by USEPA Region V.
Monitoring Well samples collected by ARCADIS and analyzed by Pace Analytical Services, Inc.
* - Secondary MCL
** - surface water treatment rule
NP - data not provided by USEPA or MCHD
N/A - not analyzed
Constituents presented on table include all analyzed constituents for the following groups: Microbiology, Metals, Anions and Wet Chemistry. A selected list of VOCs identified as constituents of concern are presented.
Bold and highlighted cells exceed the Maximum Contaminant Level
J - estimated value

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_40	MW-0104-S2	MW-0104 (5/17/01) DUP	5/17/2001	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0104-S2	MW-0104 (5/17/01)	5/17/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0104-S2	MW-0104 DUP (12/13/01)	12/13/2001	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
AOI_40	MW-0104-S2	MW-0104 (12/13/01)	12/13/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U
AOI_40	MW-0104-S2	MW-0104 (031402)	3/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0104-S2	MW-0104 (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0104-S2	MW-0104 (013107)	1/31/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0104-S2	MW-0104-S2(051508)	5/15/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0104-S2	MW-0104-S2 (071910)	7/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 UJ
AOI_40	MW-0105-S2	MW-0105 (05/16/01)	5/16/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0105-S2	MW-0105 (020107)	2/1/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0106-S2	MW-0106 (5/17/01)	5/17/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0106-S2	MW-0106 (020107)	2/1/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0106-S2	MW-0106-S2A(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0107-S2	MW-0107 (05/16/01)	5/16/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0116-S2	MW-0116-S2(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0116-S2	MW-0116-S2 (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0116-S2	MW-0116-S2 (052010)	5/20/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2A	MW-0522-S (111705)	11/17/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2A	FD-1 (011306)	1/13/2006	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2A	MW-0522-S (011306)	1/13/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2A	MW-0522-S2A (080609)	8/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2A	MW-0522-S2A(060211)	6/2/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2B	MW-0522-D (111705)	11/17/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2B	MW-0522-D (011306)	1/13/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2B	MW-0522-S2B (080609)	8/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0522-S2B	MW-0522-S2B(060211)	6/2/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0523-S2	MW-0523-S (111605)	11/16/2005		WG	< 0.005 U	0.0017 J	< 0.005 U	< 0.002 U
AOI_40	MW-0523-S2	MW-0523S (120205)	12/2/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0523-S2	MW-0523-S (011706)	1/17/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2A	MW-0524-S (111705)	11/17/2005		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2A	MW-0524-S (011706)	1/17/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2A	MW-0524-S2A (080509)	8/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2A	FD-1(060211)-TP	6/2/2011	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2A	MW-0524-S2A(060211)	6/2/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2B	MW-0524-D (111605)	11/16/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2B	MW-0524-D (011706)	1/17/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2B	MW-0524-S2B (080509)	8/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0524-S2B	MW-0524-S2B(060211)	6/2/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0525-S2	MW-0525-S (111605)	11/16/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0525-S2	MW-0525-S (011706)	1/17/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0525-S2	MW-0525-S2 (080509)	8/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0525-S2	MW-0525-S2(060611)	6/6/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0526-S2B	DUP-01 (111705)	11/17/2005	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0526-S2B	MW-0526-D (111705)	11/17/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0526-S2B	FD-1 (011706)	1/17/2006	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0526-S2B	MW-0526-D (011706)	1/17/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0526-S2B	MW-0526-S2B(060611)	6/6/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0623-S2A	MW-0623-S2A(060611)	6/6/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-0624-S2B	MW-0624 (020570)	2/5/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-16-S2	MW-16 (6/92)	6/1/1992		WG	< U	< U		
AOI_40	MW-16-S2	DUP1(092800)	9/28/2000	FD	WG	< 0.005 U	< 0.005 U	0.006	< 0.002 U
AOI_40	MW-16-S2	MW-16(092800)	9/28/2000		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-16-S2	MW-16 (5/17/01)	5/17/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	GMATRMW24 (8/30/95)	8/30/1995		WG		< 0.005 U	< 0.005 U	< 0.005 U
AOI_40	MW-24-S2A	MW-24(092800)	9/28/2000		WG	< 0.05 U	< 0.05 U	< 0.05 U	< 0.02 U
AOI_40	MW-24-S2A	MW-24 DUP (7/23/01)	7/23/2001	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24 (07/23/01)	7/23/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	FD-2 (031402)	3/14/2002	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24 (031402)	3/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_40	MW-24-S2A	MW-24 (081402)	8/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24 (052203)	5/22/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24 (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24 (051704)	5/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24 (111204)	11/12/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24 (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24 (011006)	1/10/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24-S2A(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24-S2A (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24-S2A (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_40	MW-24-S2A	MW-24-S2A (071910)	7/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0635-S2A	MW-0635-I (020107)	2/1/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0635-S2A	MW-0635-S2 (100907)	10/9/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0635-S2A	MW-0635-S2B(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0635-S3	MW-0635-D (020107)	2/1/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0635-S3	FD-1 (100907)-TTH	10/9/2007	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0635-S3	MW-0635-S3 (100907)	10/9/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0635-S3	MW-0635-S3(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0636-S2A	MW-0636-S (013007)	1/30/2007		WG	**0.0564**	**0.0141**	**0.169**	< 0.002 U
AOI_42	MW-0636-S2A	MW-0636-S2A (062007)	6/20/2007		WG	**0.0096**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0636-S2A	MW-0636-S2A (101007)	10/10/2007		WG	**0.0331**	< 0.005 U	0.067	< 0.002 U
AOI_42	MW-0636-S2A	MW-0636-S2A(051408)	5/14/2008		WG	**0.0896**	**0.0057**	**0.163**	< 0.002 U
AOI_42	MW-0636-S2A	MW-0636-S2A (052010)	5/20/2010		WG	**0.0758 J**	**0.018**	**0.0841**	< 0.002 U
AOI_42	MW-0636-S2B	MW-0636-I (013007)	1/30/2007		WG	**7.11**	**0.0153**	0.0091	< 0.002 U
AOI_42	MW-0636-S2B	MW-0636-S2B (062007)	6/20/2007		WG	**0.0232**	**0.0054**	0.0149	< 0.002 U
AOI_42	MW-0636-S2B	MW-0636-S2B (100907)	10/9/2007		WG	**2.83**	**0.158**	**0.17**	< 0.002 U
AOI_42	MW-0636-S2B	MW-0636-S2B(051408)	5/14/2008		WG	**4.63**	**0.206**	**0.0755**	< 0.02 U
AOI_42	MW-0636-S2B	MW-0636-S2B (052010)	5/20/2010		WG	**2.72 J**	**0.767**	**0.283**	< 0.02 U
AOI_42	MW-0636-S3	MW-0636-D (013107)	1/31/2007		WG	0.005	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0636-S3	MW-0636-S3 (062007)	6/20/2007		WG	**0.0199**	< 0.005 U	0.0629	< 0.002 U
AOI_42	MW-0636-S3	MW-0636-S3 (100907)	10/9/2007		WG	**0.007**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0636-S3	FD-1(051408)-MAH	5/14/2008	FD	WG	< 0.005 U	< 0.005 U	0.0052	< 0.002 U
AOI_42	MW-0636-S3	MW-0636-S3(051408)	5/14/2008		WG	0.0039 J	< 0.005 U	0.005	< 0.002 U
AOI_42	MW-0804-S2A	FD-1-061908-MAH	6/19/2008	FD	WG	**1.03**	**0.284**	**1.51**	< 0.002 U
AOI_42	MW-0804-S2A	MW-0804-S2 (061908)	6/19/2008		WG	**1**	**0.283**	**1.51**	< 0.002 U
AOI_42	MW-0804-S2A	MW-0804-S2A (103008)	10/30/2008		WG	**0.764**	**0.569**	**2.22**	< 0.002 U
AOI_42	MW-0804-S2A	MW-0804-S2A (052010)	5/20/2010		WG	**0.598 J**	**0.285**	**0.711**	< 0.002 U
AOI_42	MW-0805-S2B	MW-0805-S2 (061908)	6/19/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0805-S2B	MW-0805-S2B (103008)	10/30/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0805-S2B	MW-0805-S2B (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0805-S2B	MW-805-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0808-S2A	MW-0808-S2 (061908)	6/19/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0808-S2A	MW-0808-S2 (103008)	10/30/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0808-S2A	MW-0808-S2 (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	MW-0808-S2A	MW-0808-S2A (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	PZ-42-0702-S2A	PZ-42-0702-S2A (040909)	4/9/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_42	PZ-42-0702-S2A	PZ-42-0702-S2A (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0612-S2B	MW-0612-S (030306)	3/3/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0612-S2B	MW-0612-S2B(051408)	5/14/2008		WG	< 0.005 U	0.0021 J	< 0.005 U	< 0.002 U
AOI_43	MW-0613-S2A	MW-0613-S (030306)	3/3/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0613-S2A	MW-0613-S2A(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0613-S2A	MW-0613-S2A (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0613-S2A	MW-0613-S2A (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0614-S2B	MW-0614-S (030306)	3/3/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0614-S2B	MW-0614-S2B(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0614-S2B	MW-0614-S2B (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0614-S2B	MW-0614-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0637-S2B	MW-0637-S (013107)	1/31/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0637-S2B	MW-0637-S2B (101007)	10/10/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0637-S2B	MW-0637-S2B(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0637-S2B	MW-0637-S2B (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_43	MW-0637-S2B	MW-0637-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0637-S3	MW-0637-D (013107)	1/31/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0637-S3	MW-0637-S3 (101007)	10/10/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0637-S3	MW-0637-S3(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0707-S2B	MW-0707-S2 (102607)	10/26/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0707-S2B	MW-0707-S2B(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0707-S2B	MW-0707-S2B (040909)	4/9/2009		WG	**0.007**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0707-S2B	MW-0707-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0708-S2A	MW-0708-S2 (102607)	10/26/2007		WG	**0.0392**	**2.22**	**1.69**	< 0.002 U
AOI_43	MW-0708-S2A	MW-0708-S2A(051408)	5/14/2008		WG	**0.0562**	**2.7**	**1.53**	< 0.02 U
AOI_43	MW-0708-S2A	NW-0708-S2A (052010)	5/20/2010		WG	**0.302 J**	**2.35**	**1.03**	< 0.002 U
AOI_43	MW-0806-S2A	MW-0806-S2 (061908)	6/19/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0806-S2A	MW-0806-S2A (103008)	10/30/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0806-S2A	MW-0806-S2A (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0807-S2A	MW-0807-S2 (061908)	6/19/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0807-S2A	MW-0807-S2A (103008)	10/30/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0807-S2A	MW-0807-S2A (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0807-S2A	MW-0807-S2A (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	0.0177	< 0.002 U
AOI_43	MW-0812-S2A	FD-1 (040609)RW	4/6/2009	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0812-S2A	MW-0812-S2 (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0812-S2A	FD-1-MAH (011910)	1/19/2010	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0812-S2A	MW-0812-S2A (011910)	1/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0813-S2A	MW-0813-S2 (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0813-S2A	MW-0813-S2A (011910)	1/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0901-S2B	MW-0901-S2B (080609)	8/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0901-S2B	MW-0901-S2B (110909)	11/9/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0901-S3	MW-0901-S3 (080609)	8/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0901-S3	MW-0901-S3 (110909)	11/9/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0902-S3	MW-0902-S3 (080609)	8/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_43	MW-0902-S3	MW-0902-S3 (110909)	11/9/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0101-S2B	MW-0101 (07/23/01)	7/23/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0101-S2B	MW-0101 (11/01/01)	11/1/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0101-S2B	MW-0101 (052203)	5/22/2003		WG	**0.035**	**0.016**	< 0.005 U	< 0.002 U
AOI_51	MW-0101-S2B	MW-0101 (112003)	11/20/2003		WG	**2**	**0.062**	< 0.005 U	< 0.002 U
AOI_51	MW-0101-S2B	MW-0101 (010804)	1/8/2004		WG	< 0.005 U	**0.0051**	0.0069	< 0.002 U
AOI_51	MW-0101-S2B	MW-0101 (022604)	2/26/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0101-S2B	MW-0101 (051704)	5/17/2004		WG	**2.9**	**0.039**	< 0.005 U	< 0.002 U
AOI_51	MW-0101-S2B	MW-0101 (111204)	11/12/2004		WG	**2.2**	**0.038**	0.014	< 0.002 U
AOI_51	MW-0102-S2	MW-0102 (5/17/01)	5/17/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102 (11/02/01)	11/2/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102 (052203)	5/22/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102 (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102 (051704)	5/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102 (111204)	11/12/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102 (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102 (011106)	1/11/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102-S2A(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	FD-1 (102808)-RW	10/28/2008	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102-S2A (102808)	10/28/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102-S2B (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	FD-1 (071910)-TK	7/19/2010	FD	WG	< 0.005 U	< 0.005 U	0.0034 J	< 0.002 U
AOI_51	MW-0102-S2	MW-0102-S2 (071910)	7/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102-S2 (080910)	8/9/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2	MW-0102-S2 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	**0.0027**
AOI_51	MW-0102-S2A	MW-0102-S21A (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	0.024	**0.0436**
AOI_51	MW-0102-S2B	FD-1 (080509)RW	8/5/2009	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0102-S2B	MW-0102-S2B (080509)	8/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0108-S2B	MW-0108 (11/01/01)	11/1/2001		WG	**16**	**0.8**	0.055	**0.0044**
AOI_51	MW-0108-S2B	MW-0108 (031802)	3/18/2002		WG	**14**	**0.63**	**0.075**	**0.0076**
AOI_51	MW-0108-S2B	MW-0108 (081402)	8/14/2002		WG	**8.6**	**0.71**	**0.11**	**0.0058**
AOI_51	MW-0108-S2B	FD-1 (052203)A	5/22/2003	FD	WG	**9.7**	**0.42**	0.043	< 0.002 U

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_51	MW-0108-S2B	MW-0108 (052203)	5/22/2003		WG	7.4	0.43	0.048	< 0.002 U
AOI_51	MW-0108-S2B	MW-0108 (112003)	11/20/2003		WG	2.1	0.85	0.086	< 0.002 U
AOI_51	MW-0108-S2B	FD-1 (051804)	5/18/2004	FD	WG	12	0.25	0.03	0.019
AOI_51	MW-0108-S2B	MW-0108 (051804)	5/18/2004		WG	14	0.22	0.027	0.019
AOI_51	MW-0108-S2B	MW-0108 (111704)	11/17/2004		WG	9	0.47	0.023	0.022
AOI_51	MW-0108-S2B	FD-1 (111804)	11/18/2004	FD	WG	0.011	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0108-S2B	FD-4 (062905)	6/29/2005	FD	WG	8.4	0.58	< 0.25 U	< 0.1 U
AOI_51	MW-0108-S2B	MW-0108 (062905)	6/29/2005		WG	9	0.65	0.12	0.025
AOI_51	MW-0108-S2B	MW-0108 (012306)	1/23/2006		WG	4.7	0.28	0.032	0.019
AOI_51	MW-0108-S2B	MW-0108-S2B (052010)	5/20/2010		WG	0.633	0.412	0.0645	< 0.002 U
AOI_51	MW-0109-S2B	MW-0109 (11/02/01)	11/2/2001		WG	0.0055	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0109-S2B	MW-0109 (031402)	3/14/2002		WG	0.013	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0109-S2B	MW-0109 (081402)	8/14/2002		WG	0.013	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0109-S2B	MW-0109 (052203)	5/22/2003		WG	0.017	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0109-S2B	MW-0109 (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0109-S2B	MW-0109 (051704)	5/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	0.0035
AOI_51	MW-0109-S2B	MW-0109 (111804)	11/18/2004		WG	0.014	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0109-S2B	MW-0109-S2B(051408)	5/14/2008		WG	4.21	0.234	< 0.05 U	< 0.02 U
AOI_51	MW-0109-S2B	MW-0109-S2B (052010)	5/20/2010		WG	0.966 J	0.121	0.017	< 0.002 U
AOI_51	MW-0110-S2A	MW-0110 (11/02/01)	11/2/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	0.0033
AOI_51	MW-0110-S2A	MW-0110 (031802)	3/18/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0110-S2A	MW-0110 (081502)	8/15/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0110-S2A	MW-0110 (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0110-S2A	MW-0110 (051904)	5/19/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0111-S2	MW-0111 (11/02/01)	11/2/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0111-S2	MW-0111 (031502)	3/15/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0111-S2	MW-0111 (5/23/02)	5/23/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 R
AOI_51	MW-0111-S2	FD-1 (081302)	8/13/2002	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0111-S2	MW-0111 (081302)	8/13/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0111-S2	FD-1 (111902)	11/19/2002	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0111-S2	MW-0111 (111902)	11/19/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S2A	MW-0201S (031802)	3/18/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S2A	MW-0201S (081402)	8/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S2A	MW-0201S (111104)	11/11/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S2A	MW-0201S (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S2A	MW-0201-S2A(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S2A	MW-0201-S2A (052110)	5/21/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201D (031402)	3/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201D (081402)	8/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201D052303	5/23/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201D (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201D (051704)	5/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201D (111104)	11/11/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201D (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201-S3 (101007)	10/10/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0201-S3	MW-0201-S3(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202S (031502)	3/15/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202S (081402)	8/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202S (052203)	5/22/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202S (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202S (051704)	5/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202S (111104)	11/11/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-202S (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202S (011106)	1/11/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202-S2A (062107)	6/21/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202-S2A(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202-S2A (102808)	10/28/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202-S2A (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202-S2A (052410)-LF	5/24/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2A	MW-0202-S2A (111810)	11/18/2010		WG	< 0.005	< 0.005	< 0.005	< 0.002
AOI_51	MW-0202-S2B	MW-0202M (111104)	11/11/2004		WG	0.011 J	< 0.005 U	0.015	< 0.002 U
AOI_51	MW-0202-S2B	MW-0202M (013105)	1/31/2005		WG	< 0.005 U	< 0.005 U	0.012	< 0.002 U
AOI_51	MW-0202-S2B	MW-202M (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2B	MW-0202M (011106)	1/11/2006		WG	< 0.005 U	< 0.005 U	0.011	0.0034
AOI_51	MW-0202-S2B	FD-1-TK (062107)	6/21/2007	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2B	MW-0202-S2B (062107)	6/21/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2B	MW-0202-S2B(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_51	MW-0202-S2B	MW-0202-S2B (102808)	10/28/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S2B	MW-0202-S2B (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	0.01	**0.0034**
AOI_51	MW-0202-S2B	MW-0202-S2B (052110)	5/21/2010		WG	< 0.005 UJ	< 0.005 U	0.0055	< 0.002 U
AOI_51	MW-0202-S2B	MW-0202-S2B (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	0.0037 J	< 0.002 U
AOI_51	MW-0202-S3	MW-0202D (031502)	3/15/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202D (081402)	8/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202D (052203)	5/22/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202D (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202D (051704)	5/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202D (111104)	11/11/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202D (011106)	1/11/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202-S3 (062107)	6/21/2007		WG	< 0.005 U	< 0.005 U	0.0104	< 0.002 U
AOI_51	MW-0202-S3	MW-0202-S3(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.0092 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202-S3 (102808)	10/28/2008		WG	< 0.005 U	< 0.005 U	0.0102	< 0.002 U
AOI_51	MW-0202-S3	MW-0202-S3 (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202-S3 (052110)	5/21/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0202-S3	MW-0202-S3 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0209-S2B	MW-0209 (062702)	6/27/2002		WG	**4.3 J**	**0.057**	< 0.005 U	< 0.002 U
AOI_51	MW-0209-S2B	FD-2 (081502)	8/15/2002	FD	WG	**2.8 J**	**0.12**	0.025	< 0.002 U
AOI_51	MW-0209-S2B	MW-0209 (081502)	8/15/2002		WG	**2.6**	**0.11**	0.025	< 0.002 U
AOI_51	MW-0209-S2B	MW-0209 (052203)	5/22/2003		WG	**7.8**	**0.18**	< 0.005 U	< 0.002 U
AOI_51	MW-0209-S2B	FD-2 (112003)	11/20/2003	FD	WG	**8**	**0.18**	0.0065	**0.0074**
AOI_51	MW-0209-S2B	MW-0209 (112003)	11/20/2003		WG	**7.4**	**0.17**	0.0063	**0.0065**
AOI_51	MW-0209-S2B	MW-0209 (051804)	5/18/2004		WG	**0.0083**	< 0.005 U	< 0.005 U	**0.0041**
AOI_51	MW-0209-S2B	MW-0209 (111704)	11/17/2004		WG	**11**	**0.27**	< 0.005 U	< 0.002 U
AOI_51	MW-0209-S2B	MW-0209 (062905)	6/29/2005		WG	**5.5**	< 0.25 U	< 0.25 U	< 0.1 U
AOI_51	MW-0209-S2B	MW-0209-S2B(051408)	5/14/2008		WG	**2.5**	**0.185**	0.0022 J	< 0.002 U
AOI_51	MW-0209-S2B	MW-0209-S2B (052010)	5/20/2010		WG	**0.707**	**0.213**	0.0557	< 0.002 U
AOI_51	MW-0209-S2B	MW-0209-S2B (052410)-LF	5/24/2010		WG	**5.34**	**0.464**	**0.101**	< 0.002 U
AOI_51	MW-0210-S3	MW-0210 (052302)	5/23/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 R
AOI_51	MW-0210-S3	MW-0210 (081502)	8/15/2002		WG	**0.023**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210 (052203)	5/22/2003		WG	**0.014**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210 (112003)	11/20/2003		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210 (051704)	5/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210 (111704)	11/17/2004		WG	**0.018**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210 (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210 (011306)	1/13/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210-S3(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210-S3 (102808)	10/28/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0210-S3	MW-0210-S3 (052110)	5/21/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0401-S2B	MW-0401 (022604)	2/26/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0401-S2B	FD-1(051508)-MAH	5/15/2008	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0401-S2B	MW-0401-S2A(051508)	5/15/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0401-S2B	MW-0401-S2B (052010)	5/20/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0402-S2B	MW-0402 (022604)	2/26/2004		WG	**7.2**	**0.093**	< 0.05 U	< 0.02 U
AOI_51	MW-0402-S2B	MW-0402 (051904)	5/19/2004		WG	**2.5**	**1.2**	**0.1**	< 0.002 U
AOI_51	MW-0402-S2B	MW-0402 (111104)	11/11/2004		WG	< 0.005 U	< 0.005 U	**0.18**	< 0.002 U
AOI_51	MW-0402-S2B	MW-0402 (062905)	6/29/2005		WG	**1.8**	**0.28**	**0.28**	< 0.002 U
AOI_51	MW-0402-S2B	MW-0402 (012506)	1/25/2006		WG	**0.56**	**0.16**	**0.23**	< 0.002 U
AOI_51	MW-0402-S2B	MW-0402	2/24/2006		WG	**2.5**	**0.69**		0.0014 J
AOI_51	MW-0402-S2B	MW-0402-S2B(051508)	5/15/2008		WG	**8.07**	**0.428**	**0.213**	< 0.02 U
AOI_51	MW-0402-S2B	FD-5 (052110)-TK	5/21/2010	FD	WG	**8.14 J**	**0.896**	**0.317**	< 0.02 U
AOI_51	MW-0402-S2B	MW-0402-S2B (052110)-LF	5/21/2010		WG	**3.39 J**	**0.906**	**0.334**	< 0.02 U
AOI_51	MW-0402-S2B	MW-0402-S2B (052110)	5/21/2010		WG	**0.676 J**	**0.396**	**0.284**	< 0.002 U
AOI_51	MW-0402-S3	FD-1 (012105)	1/21/2005	FD	WG	**0.29**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0402-S3	MW-0402D (012105)	1/21/2005		WG	**0.26**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0402-S3	MW-0402D (062905)	6/29/2005		WG	**0.016**	**0.006**	0.022	< 0.002 U
AOI_51	MW-0402-S3	MW-0402D (012506)	1/25/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0402-S3	MW-0402-S3(051508)	5/15/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0402-S3	MW-0402-S3 (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	0.0138	< 0.002 U
AOI_51	MW-0403-S2B	MW-0403 (022604)	2/26/2004		WG	**0.34**	**0.065**	0.039	< 0.002 U
AOI_51	MW-0403-S2B	MW-0403 (051804)	5/18/2004		WG	**5.9**	**0.65**	**0.085**	**0.018**
AOI_51	MW-0403-S2B	MW-0403 (111204)	11/12/2004		WG	**20**	< 0.005 U	0.048	**0.024**
AOI_51	MW-0403-S2B	MW-0403 (062805)	6/28/2005		WG	**30**	**0.7**	< 0.5 U	< 0.2 U
AOI_51	MW-0403-S2B	MW-0403-S2B(051308)	5/13/2008		WG	**48.8**	**1.66**	< 0.181 U	< 0.0368 U
AOI_51	MW-0403-S2B	MW-0403-S2B (052010)-LF	5/20/2010		WG	**49.6 J**	**1.87**	< 0.5 U	< 0.2 U

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_51	MW-0403-S2B	MW-0403-S2B (052010)	5/20/2010		WG	**58.3 J**	**1.89**	< 0.5 U	< 0.2 U
AOI_51	MW-0403-S2B	FD-2 (110110)-SM	11/1/2010	FD	WG	**0.0545 J**	0.0029 J	< 0.005 UJ	< 0.002 U
AOI_51	MW-0403-S2B	MW-0403-S2B (110110)	11/1/2010		WG	**57.5 J**	**3.24 J**	**0.21 J**	**0.0042**
AOI_51	MW-0404-S2B	MW-0404 (022604)	2/26/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0404-S2B	MW-0404 (051704)	5/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0404-S2B	MW-0404 (111204)	11/12/2004		WG	**0.35**	< 0.005 U	0.024	**0.0042**
AOI_51	MW-0404-S2B	MW-0404-S2B(051408)	5/14/2008		WG	**8.53**	**0.266**	< 0.05 U	< 0.02 U
AOI_51	MW-0404-S2B	MW-0404-S2B (052010)	5/20/2010		WG	**0.0473 J**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406 (022604)	2/26/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406 (051804)	5/18/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	**0.0034**
AOI_51	MW-0406-S2B	MW-0406 (111704)	11/17/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406 (062905)	6/29/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406 (011306)	1/13/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406-S2B (062007)	6/20/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406-S2B(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406-S2B (102908)	10/29/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	FD-1 (041009)-TK	4/10/2009	FD	WG	**0.0073**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406-S2B (041009)	4/10/2009		WG	**0.0072**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	0.0074	< 0.002 U
AOI_51	MW-0406-S2B	MW-0406-S2B (110110)	11/1/2010		WG	0.0026 J	< 0.005 U	0.0035 J	< 0.002 U
AOI_51	MW-0409-S2B	MW-0409 (051804)	5/18/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0409-S2B	MW-0409 (111204)	11/12/2004		WG	**0.016**	< 0.005 U	0.012	**0.012**
AOI_51	MW-0409-S2B	MW-0409 (062805)	6/28/2005		WG	**0.011**	< 0.005 U	0.0057	**0.011**
AOI_51	MW-0409-S2B	MW-0409 (011106)	1/11/2006		WG	0.003 J	< 0.005 U	0.016	**0.017**
AOI_51	MW-0409-S2B	FD-1(051408)-CJC	5/14/2008	FD	WG	< 0.005 U	< 0.005 U	0.0558	**0.0144**
AOI_51	MW-0409-S2B	MW-0409-S2B(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	0.0396	**0.0133**
AOI_51	MW-0409-S2B	FD-1-MG (102908)	10/29/2008	FD	WG	< 0.005 U	< 0.005 U	**0.0978**	**0.0484**
AOI_51	MW-0409-S2B	MW-0409-S2B (102908)	10/29/2008		WG	< 0.005 U	< 0.005 U	**0.114**	**0.0564**
AOI_51	MW-0409-S2B	MW-0409-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	0.0614	< 0.002 U
AOI_51	MW-0409-S2B	FD-1 (110110)-SM	11/1/2010	FD	WG	< 0.005 U	0.002 J	0.068	0.0016 J
AOI_51	MW-0409-S2B	MW-0409-S2B (110110)	11/1/2010		WG	< 0.005 U	0.0018 J	0.0674	0.0016 J
AOI_51	MW-0409-S3	MW-0409D (011905)	1/19/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0409-S3	MW-0409D (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0409-S3	MW-0409D (011106)	1/11/2006		WG	< 0.005 U	< 0.005 U	0.0011 J	**0.0055**
AOI_51	MW-0409-S3	MW-0409-S3(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	0.007	**0.0179**
AOI_51	MW-0409-S3	MW-0409-S3 (102908)	10/29/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	**0.0042**
AOI_51	MW-0409-S3	MW-0409-S3 (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	0.0192	**0.0276**
AOI_51	MW-0414-S2A/S2B	MW-0414 (012105)	1/21/2005		WG	**13**	**0.47**	< 0.25 U	< 0.1 U
AOI_51	MW-0414-S2A/S2B	MW-0414 (062905)	6/29/2005		WG	**0.39**	**0.12**	**0.37**	< 0.002 U
AOI_51	MW-0414-S2A/S2B	MW-0414 (012506)	1/25/2006		WG	**0.35**	**0.067**	0.023	< 0.002 U
AOI_51	MW-0414-S2A/S2B	MW-0414-S2A(051508)	5/15/2008		WG	**0.793**	**0.157**	0.0099	< 0.002 U
AOI_51	MW-0414-S2A/S2B	MW-0414-S2A/S2B (052010)	5/20/2010		WG	**2.2 J**	**0.178**	0.0134	< 0.002 U
AOI_51	MW-0414-S3	MW-0414D (012105)	1/21/2005		WG	**92**	**0.48 J**	< 1 U	< 0.4 U
AOI_51	MW-0414-S3	MW-0414D (062905)	6/29/2005		WG	**81**	**2.1**	< 0.5 U	< 0.2 U
AOI_51	MW-0414-S3	MW-0414D (012506)	1/25/2006		WG	**53**	**1.8**	**0.37**	< 0.002 U
AOI_51	MW-0414-S3	MW-0414-S3(051508)	5/15/2008		WG	**44.1**	**14.9**	**7.85**	< 0.1 U
AOI_51	MW-0414-S3	FD-1 (052010)-TK	5/20/2010	FD	WG	**29.4 J**	**10.6**	**0.646**	< 0.04 U
AOI_51	MW-0414-S3	MW-0414-S3 (052010)	5/20/2010		WG	**33.8 J**	**11.3**	**0.65**	< 0.2 U
AOI_51	MW-0416-S2A	MW-0416 (012105)	1/21/2005		WG	**0.025**	**0.0097**	0.045	**0.02**
AOI_51	MW-0416-S2A	MW-0416 (062905)	6/29/2005		WG	**0.011**	< 0.005 U	**0.15**	**0.04**
AOI_51	MW-0416-S2A	MW-0416-S2A(051508)	5/15/2008		WG	**0.0174**	0.004 J	0.0039 J	**0.0055**
AOI_51	MW-0416-S2A	MW-0416-S2A (052110)	5/21/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	**0.014**
AOI_51	MW-0416-S2A	MW-0416-S2A (052110)-LF	5/21/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	**0.0024**
AOI_51	MW-0416-S2A	MW-0416-S2A (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	**0.0058**
AOI_51	MW-0417-S3	MW-0417D (111804)	11/18/2004		WG	**27**	**0.12**	0.0071	< 0.002 U
AOI_51	MW-0417-S3	MW-0417D (013105)	1/31/2005		WG	**1.4**	**0.11**	0.049	< 0.002 U
AOI_51	MW-0417-S3	MW-0417D (062905)	6/29/2005		WG	**0.27**	**0.11**	**0.079**	< 0.002 U
AOI_51	MW-0417-S3	MW-0417D (012306)	1/23/2006		WG	**0.12**	**0.081**	0.045	< 0.002 U
AOI_51	MW-0417-S3	MW-0417-S3(051308)	5/13/2008		WG	**0.636**	**0.632**	< 0.203 U	< 0.002 U
AOI_51	MW-0417-S3	MW-0417-S3 (052010)	5/20/2010		WG	**0.51 J**	**0.48**	**0.119**	< 0.002 U
AOI_51	MW-0417-S3	MW-0417-S3 (110110)	11/1/2010		WG	**0.792**	**0.738**	**0.156**	**0.0031**
AOI_51	MW-0417-S4	MW-0417E (012105)	1/21/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0417-S4	MW-0417E (063005)	6/30/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0417-S4	MW-0417-S4(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_51	MW-0418-S2A	MW-0418 (111804)	11/18/2004		WG	**0.014**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S2A	MW-0418 (062905)	6/29/2005		WG	**0.018**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S2A	MW-0418 (012306)	1/23/2006		WG	**0.018**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S2A	MW-0418-S2A(051408)	5/14/2008		WG	**0.0108**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S2A	FD-1 (052010)-WK	5/20/2010	FD	WG	**0.0127 J**	**0.0106**	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S2A	MW-0418-S2A (052010)	5/20/2010		WG	**0.0124**	**0.0111**	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S2A	FD-1 (052410)-LF	5/21/2010	FD	WG	**0.0163**	**0.0138**	0.0103	< 0.002 U
AOI_51	MW-0418-S2A	MW-0418-S2A (052410)-LF	5/24/2010		WG	**0.0158**	**0.0132**	0.0106	< 0.002 U
AOI_51	MW-0418-S3	MW-0418D (012105)	1/21/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S3	MW-0418D (062905)	6/29/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S3	MW-0418D (012306)	1/23/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S3	MW-0418-S3(051408)	5/14/2008		WG	**0.36**	**0.0118**	< 0.005 U	< 0.002 U
AOI_51	MW-0418-S3	MW-0418-53 (052010)	5/20/2010		WG	**0.289**	**0.0776**	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419M (011905)	1/19/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419M (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	FD-1 (011206)	1/12/2006	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419M (011206)	1/12/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419-S2B(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419-S2B (102808)	10/28/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419-S2B (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419-S2B (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419-S2B (071910)	7/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S2B	MW-0419-S2B (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S3	MW-0419D (111204)	11/12/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S3	MW-0419D (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S3	MW-0419D (011206)	1/12/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S3	MW-0419-S3(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S3	MW-0419-S3 (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S3	MW-0419-S3 (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S3	MW-0419-S3 (071910)	7/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0419-S3	MW-0419-S3 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S2A	MW-0420 (111204)	11/12/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S2A	MW-0420 (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S2A	MW-0420 (011206)	1/12/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S2A	MW-0420-S2A(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S2A	MW-0420-S2A (102808)	10/28/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S2A	MW-0420-S2A (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S2A	MW-0420-S2A (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S3	MW-0420D (111204)	11/12/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S3	MW-0420D (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S3	MW-0420D (011206)	1/12/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S3	MW-0420-S3(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S3	MW-0420-S2 (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S3	MW-0420-S3 (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0420-S3	MW-0420-S3 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S2	MW-0421 (111204)	11/12/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S2	MW-0421 (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S2	MW-0421 (011306)	1/13/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S2	MW-0421-S2(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S2	MW-0421-S2 (102808)	10/28/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S2	MW-0421-S2 (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S2	MW-0421-S2 (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S2	MW-0421-S2 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S3	MW-0421D (111204)	11/12/2004		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S3	MW-0421D (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S3	MW-0421D (011206)	1/12/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S3	MW-0421-S3(051308)	5/13/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S3	MW-0421-S3 (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S3	MW-0421-S3 (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0421-S3	MW-0421-S3 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0423-S2A	MW-0423 (012105)	1/21/2005		WG	**0.11**	< 0.005 U	< 0.005 U	**0.0058**
AOI_51	MW-0423-S2A	MW-0423 (062905)	6/29/2005		WG	**0.04**	< 0.005 U	< 0.005 U	**0.0061**
AOI_51	MW-0423-S2A	FD-1 (012406)	1/24/2006	FD	WG	**0.018**	< 0.005 U	< 0.005 U	**0.0036**
AOI_51	MW-0423-S2A	MW-0423 (012406)	1/24/2006		WG	**0.017**	< 0.005 U	< 0.005 U	**0.0031**
AOI_51	MW-0423-S2A	MW-0423 (020107)	2/1/2007		WG	**0.0092**	0.0019 J	< 0.005 U	**0.0025**

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_51	MW-0423-S2A	MW-0423-S2A(051508)	5/15/2008		WG	**0.0109**	0.0041 J	< 0.005 U	**0.0076**
AOI_51	MW-0423-S2A	MW-0423-S2A (052010)	5/20/2010		WG	**0.0062 J**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0424-S2A	MW-0424 (012105)	1/21/2005		WG	**0.096**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0424-S2A	MW-0424 (062905)	6/29/2005		WG	< 0.005 U	< 0.005 U	0.025	< 0.002 U
AOI_51	MW-0424-S2A	MW-0424 (012406)	1/24/2006		WG	< 0.005 U	< 0.005 U	0.015	< 0.002 U
AOI_51	MW-0424-S2A	MW-0424-S2A(051508)	5/15/2008		WG	< 0.005 U	< 0.005 U	0.0064	< 0.002 U
AOI_51	MW-0425-S2A	MW-0425 (012105)	1/21/2005		WG	**0.068**	< 0.005 U	0.0077	< 0.002 U
AOI_51	MW-0425-S2A	MW-0425 (062905)	6/29/2005		WG	< 0.005 U	< 0.005 U	0.013	< 0.002 U
AOI_51	MW-0425-S2A	MW-0425 (012406)	1/24/2006		WG	< 0.005 U	< 0.005 U	0.0085	< 0.002 U
AOI_51	MW-0425-S2A	MW-0425-S2B(051508)	5/15/2008		WG	< 0.005 U	< 0.005 U	0.0034 J	< 0.002 U
AOI_51	MW-0426-S2B	MW-0426 (012105)	1/21/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0426-S2B	MW-0426 (062805)	6/28/2005		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0426-S2B	MW-0426 (012306)	1/23/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0426-S2B	MW-0426-S2A(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0426-S2B	MW-0426-S2 (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0426-S2B	MW-0426-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0426-S2B	MW-0426-S2B (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0427-S2B	MW-0427 (012005)	1/20/2005		WG	**1.5**	**0.047**	< 0.005 U	0.002
AOI_51	MW-0427-S2B	MW-0427 (062805)	6/28/2005		WG	**0.56**	**0.014**	< 0.005 U	**0.0035**
AOI_51	MW-0427-S2B	MW-0427-S2B (102808)	10/28/2008		WG	**1.12**	**0.0495**	0.0074	**0.0065**
AOI_51	MW-0427-S2B	MW-0427-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	**0.0087**
AOI_51	MW-0427-S2B	MW-0427-S2B (052010)-LF	5/20/2010		WG	**0.587 J**	**0.0543**	0.0084	**0.0108**
AOI_51	MW-0817-S2B	MW-0817-S2B (111208)	11/12/2008		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0817-S2B	MW-0817-S2B (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0817-S2B	MW-0817-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0817-S2B	MW-0817-S2B (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0817-S3	MW-0817-S3 (111208)	11/12/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0817-S3	MW-0817-S3 (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0817-S3	MW-0817-S3 (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0817-S3	MW-0817-S3 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0818-S3	FD-1 (111108)RW	11/11/2008	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0818-S3	MW-0818-S3 (111108)	11/11/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0818-S3	MW-0818-S3 (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0818-S3	MW-0818-S3 (080509)	8/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0818-S3	MW-0818-S3 (052110)	5/21/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0818-S3	MW-0818-S3 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0819-S2B	MW-0819-S2B (111108)	11/11/2008		WG	< 0.005 U	< 0.005 UJ	< 0.005 U	< 0.002 U
AOI_51	MW-0819-S2B	MW-0819-S2B (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0819-S2B	MW-0819-S2B (052110)	5/21/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0819-S2B	MW-0819-S2B (071910)	7/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0819-S2B	MW-0819-S2B (110110)	11/1/2010		WG	< 0.005 U	0.001 J	< 0.005 U	< 0.002 U
AOI_51	MW-0903-S3	MW-0903-S3 (080609)	8/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0903-S3	MW-0903-S3 (110909)	11/9/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0903-S3	MW-0903-S3 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S2B	FD-1 (080609)RW	8/6/2009	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S2B	MW-0904-S2B (080609)	8/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S2B	FD-1 (110509)-MAH	11/5/2009	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S2B	MW-0904-S2B (110509)	11/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S2B	MW-0904-S2B (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S2B	MW-0904-S2B (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S3	MW-0904-S3 (080609)	8/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S3	MW-0904-S3 (110509)	11/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-0904-S3	MW-0904-S3 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-8-S2B	MW-8 (6/92)	6/1/1992		WG	< 0.005 U			
AOI_51	MW-8-S2B	MW-8(092800)	9/28/2000		WG	**2.8**	**0.067**	< 0.005 U	< 0.002 U
AOI_51	MW-8-S2B	MW-8 (5/17/01)	5/17/2001		WG	**1.9**	**0.061**	< 0.005 U	< 0.002 U
AOI_51	MW-8-S2B	MW-8 (11/02/01)	11/2/2001		WG	**1.8**	**0.085**	< 0.005 U	< 0.002 U
AOI_51	MW-8-S2B	MW-8 (031402)	3/14/2002		WG	0.013	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S2-0601	MW-S2-0601 (102706)	10/27/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S2-0601	MW-S2-0601 (041009)	4/10/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S2-0601	MW-S2-0601 (052110)	5/21/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene mg/L	Trichloroethene mg/L	cis-1,2-Dichloroethene mg/L	Vinyl chloride mg/L
AOI_51	MW-S2A-0501	MW-S2A-0501(081908)	8/19/2008		WG	**1.37 J**	**0.0113 J**	< 0.005 UJ	< 0.002 UJ
AOI_51	MW-S2A-0501	MW-S2A-0501 (091608)	9/16/2008		WG	**0.503**	**0.0149**	< 0.005 U	< 0.002 U
AOI_51	MW-S2A-0501	MW-S2A-0501 (041009)	4/10/2009		WG	**1.05**	**0.0067**	< 0.005 U	< 0.002 U
AOI_51	MW-S2A-0501	MW-S2A-0501 (052010)	5/20/2010		WG	**0.957 J**	**0.0164**	< 0.005 U	< 0.002 U
AOI_51	MW-S2B-0501	MW-S2B-0501 (102706)	10/27/2006		WG	< 0.005 U	< 0.005 U	0.0072	**0.0059**
AOI_51	MW-S2B-0501	MW-S2B-0501 (062107)	6/21/2007		WG	< 0.005 U	< 0.005 U	0.0106	**0.0089**
AOI_51	MW-S2B-0501	MW-S2B-0501(051408)	5/14/2008		WG	< 0.005 U	< 0.005 U	0.0122	**0.0149**
AOI_51	MW-S2B-0501	MW-S2B-0501(081908)	8/19/2008		WG	< 0.005 U	< 0.005 U	0.0074	**0.006**
AOI_51	MW-S2B-0501	MW-S2B-0501 (091608)	9/16/2008		WG	< 0.005 U	< 0.005 U	0.0089	**0.0124**
AOI_51	MW-S2B-0501	MW-S2B-0501 (102908)	10/29/2008		WG	< 0.005 U	< 0.005 U	0.0154	**0.0293**
AOI_51	MW-S2B-0501	MW-S2B-0501 (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	**0.0719**	**0.0339**
AOI_51	MW-S2B-0501	MW-S2B-0501 (052010)	5/20/2010		WG	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S2B-0501	MW-S2B-0501 (110110)	11/1/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S3-0501	MW-S3-0501 (102706)	10/27/2006		WG	0.0032 J	0.0013 J	0.0024 J	< 0.002 U
AOI_51	MW-S3-0501	MW-S3-0501 (062007)	6/20/2007		WG	**0.0389**	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S3-0501	MW-S3-0501(051408)	5/14/2008		WG	**0.162**	< 0.005 U	0.003 J	< 0.002 U
AOI_51	MW-S3-0501	MW-S3-0501 (041009)	4/10/2009		WG	**0.0781**	**0.0418**	0.0025 J	**0.0034**
AOI_51	MW-S3-0501	MW-S3-0501 (052010)	5/20/2010		WG	**0.274 J**	**0.0562**	0.0171	< 0.002 U
AOI_51	MW-S3-0501	MW-S3-0501 (110110)	11/1/2010		WG	**2.03**	**0.159**	0.0593	**0.0028**
AOI_51	MW-S3-0601	FD-1 (102706)	10/27/2006	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S3-0601	MW-S3-0601 (102706)	10/27/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S3-0601	MW-S3-0601 (062107)	6/21/2007		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S3-0601	MW-S3-0601(051208)	5/12/2008		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S3-0601	MW-S3-0601 (040609)	4/6/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_51	MW-S3-0601	MW-S3-0601 (052010)	5/20/2010		WG	< 0.005 UJ	**0.0059**	< 0.005 U	< 0.002 U
AOI_51	MW-S3-0601	MW-S3-0601 (110110)	11/1/2010		WG	< 0.005 U	0.0042 J	< 0.005 U	< 0.002 U
AOI_53	MW-0203-S2A	MW-0203 (111902)	11/19/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0205-S2A	MW-0205 (5/23/02)	5/23/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 R
AOI_53	MW-0205-S2A	MW-0205 (081302)	8/13/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0205-S2A	MW-0205 (111902)	11/19/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0206-S2A	FD-2 (5/23/02)	5/23/2002	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 R
AOI_53	MW-0206-S2A	MW-0206 (5/23/02)	5/23/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 R
AOI_53	MW-0206-S2A	MW-0206 (081302)	8/13/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0206-S2A	MW-0206 (111902)	11/19/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0207-S2B	MW-0207 (5/23/02)	5/23/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 R
AOI_53	MW-0207-S2B	MW-0207 (081302)	8/13/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0207-S2B	MW-0207 (111902)	11/19/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0207-S2B	MW-0207-S2B (110909)	11/9/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0208-S2A	MW-0208 (5/23/02)	5/23/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 R
AOI_53	MW-0208-S2A	MW-0208 (081302)	8/13/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0208-S2A	MW-0208 (111902)	11/19/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-0208-S2A	MW-0208-S2A (110509)	11/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-25-S2	GMATRMW25 (8/30/95)	8/30/1995		WG		< 0.005 U	< 0.005 U	< 0.005 U
AOI_53	MW-25-S2	MW-25(092800)	9/28/2000		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-25-S2	MW-25 (5/17/01)	5/17/2001		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_53	MW-25-S2	MW-25 (031302)	3/13/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_54	MW-7-S2	MW-7 (6/92)	6/1/1992		WG	< U			
AOI_54	MW-7-S2	MW-7(092800)	9/28/2000		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_54	MW-7-S2	MW-7 (031402)	3/14/2002		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_54	MW-7-S2	MW-7 (022806)	2/28/2006		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_54	MW-7-S2	MW-7-S2 (011910)	1/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_57	MW-0639-S2A	MW-0639-S2A (110509)	11/5/2009		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_57	SB-57-0601	SB-57-0601 (011106)-19	1/11/2006		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_57	SB-57-0602	SB-57-0602 (011106)-19	1/11/2006		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1001-S2B	MW-1001-S2B (042810)	4/28/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1001-S3	FD-1 (042710)-TP	4/27/2010	FD	WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1001-S3	MW-1001-S3 (042710)	4/27/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1001-S3	MW-1001-S3 (100707)	7/7/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1002-S2B	MW-1002-S2B (042710)	4/27/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U

Table 3. Summary of Select VOC Results for Allison Transmission Monitoring Wells, Evaluation of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, Speedway, Indiana.

AOI	Location ID	Sample ID	Sample Date	Field Duplicate	Sample Matrix	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride
						mg/L	mg/L	mg/L	mg/L
AOI_64	MW-1002-S3	MW-1002-S3 (042710)	4/27/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1002-S3/4	MW-1002-S3/4 (071910)	7/19/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1002-S4	MW-1002-S4 (042710)	4/27/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1003-S3	MW-1003-S3 (042710)	4/27/2010		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	MW-1003-S3	MW-1003-S3(060211)	6/2/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1001	SB-64-1001 (11-15)	1/14/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1001	SB-64-1001 (30-34)	1/15/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1001	SB-64-1001 (41-45)	1/15/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1001	SB-64-1001(060611)	6/6/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1002	SB-64-1002 (24-28)	1/19/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1002	SB-64-1002 (31-35)	1/19/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1002	SB-64-1002 (17-21)	1/19/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1003	SB-64-1003 (18-22)	1/13/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1003	FD-01 (011410)-TP	1/14/2010	FD	WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1003	SB-64-1003 (31-35)	1/14/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1004	SB-64-1004 (22-26)	1/13/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1004	SB-64-1004 (27-31)	1/13/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1004	SB-64-1004 (35-39)	1/14/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1005	SB-64-1005 (22-26)	1/20/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1005	SB-64-1005 (33-37)	1/20/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1005	SB-64-1005 (26.5-30.5)	1/20/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1006	SB-64-1006 (20-24)	1/18/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1006	SB-64-1006 (33-37)	1/18/2010		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
AOI_64	SB-64-1006	SB-64-1006(060611)	6/6/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
Perimeter	MW-1101-S4	MW-1101-S4(062211)	6/22/2011		WG	< 0.005 UJ	< 0.005 U	0.0067	< 0.002 U
Perimeter	MW-1102-S4	MW-1102-S4 (061311)	6/13/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
Perimeter	MW-1103-S3/4	MW-1103-S3/4 (061311)	6/13/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
Perimeter	MW-1105-S3/4	MW-1105(85-90)(060411)	6/4/2011		WB	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
Perimeter	MW-1105-S3/4	MW-1105-S3/4 (061311)	6/13/2011		WG	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U
Drinking Water Criteria (MCL Region 9)						**0.005**	**0.005**	**0.07**	**0.002**

NOTES:

mg/L- milligram per liter
U- Not detected above laboratory reporting limits
J - Estimated value
R - Rejected value
UJ - Not detected above laboratory reporting limits, value is estimated
NA - Not analyzed
MCL - Maximum Contaminant Levels
FD - Field Duplicate
WB - Borehole Water Sample
WG - Groundwater Sample

ARCADIS

Attachment A

Indiana Department of Natural Resources Water Well Records

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
180316		Jan 15, 1981

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]	[redacted]	
Driller	MATLOCK WELL DRILLING	401 W MORRIS ST	
Operator	JERRY OAKLEY	License: null	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:**
	Depth: 75.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 75.0	**Material:**	**Diameter:** 4.0
Screen	**Length:** 5.0	**Material:**	**Diameter:** 4.0 **Slot size:** #6

Well Capacity Test

Type of test: **Test rate:** gpm for hrs. **BailTest rate:** 5.0 gpm for 1.0 hrs.
Drawdown: ft. **Static water level:** 20.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: NW of the SW of Section 5 **Topo map:** INDIANAPOLIS WEST
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: BRUNS **on:** Feb 19, 1981
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	3.0	TOPSOIL
3.0	10.0	OVERBURDEN
10.0	38.0	GRAV
38.0	75.0	OVERBURDEN

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
410206		Oct 10, 2007

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]	[redacted] INDIANAPOLIS, IN	
Driller	C & J WELL DRILLING CO	PO BOX 747 BROWNSBURG, IN	(317) 892-2100
Operator	DON BAUGHMAN	License: 178	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:** Submersible
	Depth: 37.0	**Pump setting depth:** 0.0	**Water quality:** CLEAR
Casing	**Length:** 35.0	**Material:** PVC	**Diameter:** 5.0
Screen	**Length:** 2.0	**Material:** STAINLESS ST	**Diameter:** 5.0 **Slot size:** .050

Well Capacity Test

Type of test: Air **Test rate:** 30.0 gpm for 1.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: 0.0 ft. **Static water level:** 20.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: BENTONITE **Depth:** from 0.0 to 20.0
Installation Method: PRESSURE **Number of bags used:** 5.0

Well Abandonment

Sealing material: HOLEPLUG **Depth:** from 0 to 60
Installation Method: HAND **Number of bags used:** 8.0

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: NE of the NW of the SW of Section 5 **Topo map:** INDIANAPOLIS WEST
Grant Number:
Field located by: DRILLER **on:** Oct 10, 2007
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** 900.0 **Ft S of NL:** 1800.0
Ground elevation: 718.0 **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:** 681.0
UTM Easting: 565893.0 **UTM Northing:** 4402521.0

Well Log

Top	Bottom	Formation
0.0	15.0	CLAY
15.0	37.0	SAND & GRAVEL

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
363476	GASOLINE ALLY TO W VERMONT GO E ON [redacted] WHICH IS ONN N SIDE OF ST; WELL IS LOCATED IN FRONT YARD	Aug 11, 2002

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	JIMMY L PARSONS JR	7214 PARSONS WAY MOORESVILLE IN	(317) 834-9189
Driller	JIMMY L PARSONS JR	7214 PARSONS WAY MOORESVILLE IN	(317) 834-9189
Operator	JIMMY L PARSONS JR	License: 1639	

Construction Details

Well	**Use:** Home	**Drilling method:** Cable Tool	**Pump type:**
	Depth: 70.0	**Pump setting depth:**	**Water quality:** CLEAR
Casing	**Length:** 70.0	**Material:** SS	**Diameter:** 4.0
Screen	**Length:** 4.0	**Material:** SS	**Diameter:** 4.0 **Slot size:** .40

Well Capacity Test

Type of test: Bailing **Test rate:** 5.0 gpm for 2.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** 28.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: BENTONITE **Depth:** from 0.0 to 70.0
Installation Method: POUR IN **Number of bags used:** 1.0

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: of Section 6 **Topo map:** INDIANAPOLIS WEST
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	20.0	BR CLAY
20.0	30.0	S&G
30.0	36.0	GRAY CLAY
36.0	55.0	SAND
55.0	70.0	GREY CLAY

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
180630	SPEEDWAY	Sep 22, 1961

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]	[redacted]	
Driller	MANFORD DILAN	841 W SUMNER AVE	
Operator	NOLES CREED	License: null	

Construction Details

Well	**Use:** Home	**Drilling method:** Cable Tool	**Pump type:**
	Depth: 35.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 35.0	**Material:**	**Diameter:** 4.5
Screen	**Length:** 0.5	**Material:**	**Diameter:** 3.0 **Slot size:** 6

Well Capacity Test

Type of test: Pumping **Test rate:** 10.0 gpm for 1.5 hrs. **BailTest rate:** gpm for hrs.
Drawdown: 0.0 ft. **Static water level:** 20.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: SE of the SW of the NW of Section 5 **Topo map:** INDIANAPOLIS WEST
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	5.0	YEL CLAY
5.0	18.0	SANDY HARDPAN
18.0	25.0	DRY SAND
25.0	35.0	S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
180615		Nov 22, 1973

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]	[redacted]	
Driller	HAMILTON BROS INC.	4025 ROCKVILLE RD	
Operator	JOHN OSBORNE	License: null	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:**
	Depth: 57.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 55.0	**Material:**	**Diameter:** 4.0
Screen	**Length:** 2.0	**Material:**	**Diameter:** 4.0 **Slot size:** .060

Well Capacity Test

Type of test: Pumping **Test rate:** 10.0 gpm for 1.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: SW of the NW of Section 5 **Topo map:** INDIANAPOLIS WEST
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: SL **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	6.0	CLAY
6.0	40.0	S&G
40.0	57.0	CLAY

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
180271	GO W ON MICHIGAN ST FROM HOLT RD TO GASOLINE ALLEY 500 4100 GO S AND STRAIGHT DO NO CROSS RIVER TO [redacted]	Oct 01, 1989

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]	[redacted]	[redacted]
Driller	JOSEPH HUSER SERVICES INC.	5728 S EMERSON INDPLS, IN	(317) 784-4264
Operator	SHAWN R. COREY	License: 436	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:** Submersible
	Depth: 38.0	**Pump setting depth:** 34.0	**Water quality:** OK
Casing	**Length:** 36.0	**Material:** PVC	**Diameter:** 5.0
Screen	**Length:** 3.0	**Material:** SS	**Diameter:** 4.0 **Slot size:** .035

Well Capacity Test

Type of test: Air **Test rate:** 20.0 gpm for 1.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** 13.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: BENTONITE **Depth:** from 4.0 to 30.0
Installation Method: PUMP **Number of bags used:** 1.5

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: NW of the NW of the SW of Section 5 **Topo map:** MAYWOOD
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: 716.0 **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:** 678.0
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	15.0	CLAY
15.0	38.0	S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
180251	[redacted]	

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]		
Driller	HAMILTON BROS INC	4025 ROCKVILLE RD	
Operator	WHEELER	License: null	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:**
	Depth: 40.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:**	**Material:**	**Diameter:** 4.25
Screen	**Length:** 3.0	**Material:**	**Diameter:** 4.25 **Slot size:**

Well Capacity Test	**Type of test:**	**Test rate:** gpm for hrs.	**BailTest rate:** 10.0 gpm for 1.0 hrs.
	Drawdown: ft.	**Static water level:** ft.	**Bailer Drawdown** 23.0 ft.

Grouting Information	**Material:**	**Depth:** from to
	Installation Method:	**Number of bags used:**

Well Abandonment	**Sealing material:**	**Depth:** from to
	Installation Method:	**Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E

Section: NW of Section 5 **Topo map:** MAYWOOD

Grant Number:

Field located by: **on:**

Courthouse location by: **on:**

Location accepted w/o verification by: **on:**

Subdivision name: **Lot number:**

Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**

Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**

UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	11.0	CLAY
11.0	22.0	SAND
22.0	26.0	CLAY
26.0	40.0	SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
180226	[redacted]	Mar 31, 1979

Owner-Contractor	**Name**	**Address**	**Telephone**
Driller	HAMILTON BROS INC	PO BOX24181,4025 ROCKVILLE ROAD,INDIANAPOLIS, IND	
Operator	DESTER HARNESS	License: null	
Company	JEFF LE MAR		

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:**
	Depth: 70.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 67.0	**Material:**	**Diameter:** 4.0
Screen	**Length:** 3.0	**Material:**	**Diameter:** 4.0 **Slot size:** 60

Well Capacity Test

Type of test: **Test rate:** 10.0 gpm for 1.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: 10.0 ft. **Static water level:** 25.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: NW of Section 5 **Topo map:** INDIANAPOLIS WEST
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: SLP SAW 6/14/79 **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	5.0	TOPSOIL & CLAY
5.0	40.0	GRAV
40.0	70.0	CLAY

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
56682	.5 MI W OF GASOLINE ALLEY ON COSSELL RD ON S SIDE (WHERE COSSELL RD DEAD ENDS AT HOLT RD) [redacted]	Oct 05, 1993

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]	[redacted]	[redacted]
Driller	PERRY WELL DRILLING	4946 SR 32 W ANDERSON IN	(000) 642-7105
Operator	JEFF FLEMING	License: 1074	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:** Submersible
	Depth: 260.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:** 139.0	**Material:** PVC	**Diameter:** 5.0
Screen	**Length:**	**Material:**	**Diameter: Slot size:**

Well Capacity Test

Type of test: Air **Test rate:** 15.0 gpm for 1.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** 71.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: BNSL **Depth:** from 25.0 to 80.0
Installation Method: TREM **Number of bags used:** 2.25

Well Abandonment

Sealing material: **Depth:** from to \
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: NW of Section 5 **Topo map:** MAYWOOD
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	3.0	TOP SOIL
3.0	37.0	S & G
37.0	44.0	GRAY CLAY
44.0	49.0	S & G
49.0	67.0	GRAY CLAY
67.0	70.0	S & G
70.0	78.0	GRAY CLAY
78.0	136.0	BLK SHALE
136.0	260.0	STONE

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
54030		Nov 28, 1973

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]	[redacted]	
Driller	HAMILTON BROS INC.	4025 ROCKVILLE RD	
Operator	WARREN HARNESS	License: null	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:**
	Depth: 60.0	**Pump setting depth:**	**Water quality:**
Casing	**Length:**	**Material:**	**Diameter:** 4.0
Screen	**Length:** 2.0	**Material:**	**Diameter:** 4.0 **Slot size:** .060

Well Capacity Test **Type of test:** Pumping **Test rate:** 15.0 gpm for 1.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** ft. **Bailer Drawdown** ft.

Grouting Information **Material:** **Depth:** from to
Installation Method: **Number of bags used:**

Well Abandonment **Sealing material:** **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: SW of the NW of Section 5 **Topo map:** INDIANAPOLIS WEST
Grant Number:
Field located by: **on:**
Courthouse location by: **on:**
Location accepted w/o verification by: SL **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:**
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	7.0	CLAY
7.0	44.0	S&G
44.0	60.0	CLAY

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	**Driving directions to well**	**Date completed**
54029	GO W ON MICHIGAN ST FROM HOLT RD TO GASOLINE ALLEY 500N 6100 GO S AND STRAIGHT DO NOT CROSS RIVER TO [redacted]	Oct 01, 1989

Owner-Contractor	**Name**	**Address**	**Telephone**
Owner	[redacted]	[redacted]	[redacted]
Driller	JOSEPH HUSER SERVICES INC.	5728 S EMERSON INDPLS, IN	(317) 789-4244
Operator	SHAWN R. COREY	License: 436	

Construction Details

Well	**Use:** Home	**Drilling method:** Rotary	**Pump type:** Submersible
	Depth: 38.0	**Pump setting depth:** 34.0	**Water quality:** OK
Casing	**Length:** 36.0	**Material:** PVC	**Diameter:** 5.0
Screen	**Length:** 3.0	**Material:** SS	**Diameter:** 4.0 **Slot size:** .035

Well Capacity Test

Type of test: Air **Test rate:** 20.0 gpm for 1.0 hrs. **BailTest rate:** gpm for hrs.
Drawdown: ft. **Static water level:** 13.0 ft. **Bailer Drawdown** ft.

Grouting Information

Material: BENTONITE **Depth:** from 4.0 to 30.0
Installation Method: PUMP **Number of bags used:** 1.5

Well Abandonment

Sealing material: **Depth:** from to
Installation Method: **Number of bags used:**

Administrative

County: MARION **Township:** 15N **Range:** 3E
Section: NE of the NW of the SW of Section 5 **Topo map:** MAYWOOD
Grant Number:
Field located by: MCBN **on:** Jan 01, 1992
Courthouse location by: **on:**
Location accepted w/o verification by: **on:**
Subdivision name: **Lot number:**
Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**
Ground elevation: 716.0 **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:** 678.0
UTM Easting: **UTM Northing:**

Well Log

Top	Bottom	Formation
0.0	15.0	CLAY
15.0	38.0	S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
180281	S OF EAGLE CREEK PARK.	Jun 15, 1961

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	[redacted]	[redacted]	
Driller	INDPLS PUMP & EQUIP CO.	2720 BRILL RD	
Operator	JOE STOVALL	License: null	

Construction Details

Well	***Use:*** HOME	***Drilling method:*** Cable Tool	***Pump type:***
	Depth: 40.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 37.0	***Material:***	***Diameter:*** 4.5
Screen	***Length:*** 5.4	***Material:***	***Diameter:*** 3.0 ***Slot size:*** #6 GA

Well Capacity Test	***Type of test:***	***Test rate:*** gpm for hrs.	***BailTest rate:*** 15.0 gpm for 3.0 hrs.
	Drawdown: ft.	***Static water level:*** 20.0 ft.	***Bailer Drawdown*** 30.0 ft.

Grouting Information	***Material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Well Abandonment	***Sealing material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Administrative

County: Marion ***Township:*** 15N ***Range:*** 3E

Section: SE of the SWof the NW of Section 5 ***Topo map:*** Indianapolis West

Grant Number:

Field located by: D JORDAN ***on:*** Feb 01, 1962

Courthouse location by: ***on:***

Location accepted w/o verification by: ***on:***

Subdivision name: ***Lot number:***

Ft W of EL: ***Ft N of SL:*** 2750.0 ***Ft E of WL:*** 1000.0 ***Ft S of NL:***

Ground elevation: 715.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 675.0

UTM Easting: 565868.5 ***UTM Northing:*** 4402579.5

Well Log

Top	Bottom	Formation
0.0	18.0	RED CLAY
18.0	28.0	GRAV & SAND
28.0	34.0	BLUE MUD
34.0	36.0	SAND
36.0	40.0	RED GRAV

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
54036	[redacted]	Jan 13, 1977

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	[redacted]		
Driller	HAMILTON BROS INC.	PO BOX 24181, INDPLS IN	
Operator	ED RANDOLPH	License: null	
Company	PEDIGO & YOUNG		

Construction Details

Well	***Use:*** HOME	***Drilling method:*** Cable Tool	***Pump type:***
	Depth: 62.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 59.0	***Material:***	***Diameter:*** 4.0
Screen	***Length:*** 3.0	***Material:***	***Diameter:*** 4.0 ***Slot size:*** .060

Well Capacity Test	***Type of test:*** PUMPING	***Test rate:*** 10.0 gpm for 1.0 hrs.	***BailTest rate:*** gpm for hrs.
	Drawdown: ft.	***Static water level:*** ft.	***Bailer Drawdown*** ft.

Grouting Information	***Material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Well Abandonment	***Sealing material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Administrative

County: Marion ***Township:*** 15N ***Range:*** 3E

Section: SW of the SEof the NW of Section 5 ***Topo map:*** Indianapolis West

Grant Number:

Field located by: MCBN ***on:*** Jan 01, 1992

Courthouse location by: ***on:***

Location accepted w/o verification by: WH ***on:*** Jul 07, 1977

Subdivision name: ***Lot number:***

Ft W of EL: ***Ft N of SL:*** ***Ft E of WL:*** ***Ft S of NL:***

Ground elevation: 717.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 655.0

UTM Easting: 566060.0 ***UTM Northing:*** 4402600.0

Well Log

Top	Bottom	Formation
0.0	1.0	TOPSOIL & CLAY
1.0	35.0	S&G
35.0	62.0	BR CLAY

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
54035	S OF MICHIGAN ST ON ROENA TO VERMONT. E TO [redacted].	Jan 29, 1981

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	[redacted]	[redacted]	
Driller	MILLS PUMP & WELL DRILLING INC	2508 W MICHIGAN ST, INDPLS IN	
Operator	RUSSELL MILLS	License: null	

Construction Details

Well	***Use:*** HOME	***Drilling method:*** Rotary	***Pump type:***
	Depth: 75.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 72.0	***Material:***	***Diameter:*** 4.0
Screen	***Length:*** 3.0	***Material:***	***Diameter:*** 4.0 ***Slot size:*** 40

Well Capacity Test	***Type of test:***	***Test rate:*** gpm for hrs.	***BailTest rate:*** 10.0 gpm for 1.0 hrs.
	Drawdown: ft.	***Static water level:*** 20.0 ft.	***Bailer Drawdown*** 10.0 ft.

Grouting Information	***Material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Well Abandonment	***Sealing material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Administrative	***County:*** Marion		***Township:*** 15N ***Range:*** 3E	
	Section: NW of the NEof the SW of Section 5			***Topo map:*** Indianapolis West
	Grant Number:			
	Field located by: MCBN		***on:*** Jan 01, 1992	
	Courthouse location by:		***on:***	
	Location accepted w/o verification by: BRUNS		***on:*** Dec 21, 1982	
	Subdivision name:		***Lot number:***	
	Ft W of EL:	***Ft N of SL:***	***Ft E of WL:***	***Ft S of NL:***
	Ground elevation: 717.0	***Depth to bedrock:***	***Bedrock elevation:***	***Aquifer elevation:*** 642.0
	UTM Easting: 566010.0		***UTM Northing:*** 4402525.0	

Well Log

Top	Bottom	Formation
0.0	1.0	BLANK
1.0	21.0	CLAY GRAY
21.0	70.0	CLAY BLUE
70.0	75.0	SAND BLUE

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
54034	[redacted]	Mar 23, 1977

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	[redacted]		
Driller	HAMILTON BROS INC	PO BOX 24181 INDPLS, IND 46224	
Operator	WOODIE BURKHART	License: null	

Construction Details

Well	***Use:*** HOME	***Drilling method:*** Cable Tool	***Pump type:***
	Depth: 54.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:***	***Material:***	***Diameter:*** 4.0
Screen	***Length:***	***Material:***	***Diameter:*** 3.0 ***Slot size:***

Well Capacity Test	***Type of test:***	***Test rate:*** 10.0 gpm for 1.0 hrs.	***BailTest rate:*** gpm for hrs.
	Drawdown: ft.	***Static water level:*** ft.	***Bailer Drawdown*** ft.

Grouting Information	***Material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Well Abandonment	***Sealing material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Administrative

County: Marion ***Township:*** 15N ***Range:*** 3E

Section: NW of the NEof the SW of Section 5 ***Topo map:*** Indianapolis West

Grant Number:

Field located by: MCBH ***on:*** Jan 01, 1992

Courthouse location by: ***on:***

Location accepted w/o verification by: WH ***on:*** Jul 07, 1977

Subdivision name: ***Lot number:***

Ft W of EL: ***Ft N of SL:*** ***Ft E of WL:*** ***Ft S of NL:***

Ground elevation: 717.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 663.0

UTM Easting: 566060.0 ***UTM Northing:*** 4402550.0

Well Log

Top	Bottom	Formation
0.0	35.0	TOPSOIL & CLAY
35.0	54.0	S & G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
54028		Nov 07, 1970

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	[redacted]	[redacted]	
Driller	HAMILTON BROS INC.		
Operator	TERRY HAMILTON	License: null	

Construction Details

Well	***Use:*** HOME	***Drilling method:*** Rotary	***Pump type:***
	Depth: 59.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 57.0	***Material:***	***Diameter:*** 4.0
Screen	***Length:*** 2.0	***Material:***	***Diameter:*** 3.0 ***Slot size:*** #6

Well Capacity Test	***Type of test:*** PUMPING	***Test rate:*** 10.0 gpm for 2.0 hrs.	***BailTest rate:*** gpm for hrs.
	Drawdown: ft.	***Static water level:*** ft.	***Bailer Drawdown*** ft.

Grouting Information	***Material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Well Abandonment	***Sealing material:***	***Depth:*** from to
	Installation Method:	***Number of bags used:***

Administrative

County: Marion ***Township:*** 15N ***Range:*** 3E

Section: SE of the SWof the NW of Section 5 ***Topo map:*** Indianapolis West

Grant Number:

Field located by: MCBN ***on:*** Jan 01, 1992

Courthouse location by: ***on:***

Location accepted w/o verification by: ***on:***

Subdivision name: ***Lot number:***

Ft W of EL: ***Ft N of SL:*** ***Ft E of WL:*** ***Ft S of NL:***

Ground elevation: 718.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 658.0

UTM Easting: 565960.0 ***UTM Northing:*** 4402625.0

Well Log

Top	Bottom	Formation
0.0	30.0	CLAY
30.0	40.0	SAND
40.0	57.0	CLAY
57.0	60.0	SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
54027	FROM INDIANAPOLIS, W ON MICHIGAN RD FROM HOLT RD TO GASOLINE ALLEY, S GO STRAIGHT TO [redacted] DO NOT CROSS RIVER	Sep 01, 1989

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	[redacted]	[redacted]	
Driller	JOSEPH HUSER SERVICES INC.	5728 S EMERSON INDPLS, IN	(317) 784-4264
Operator	SHAWN R. COREY	License: 436	

Construction Details

Well	***Use:*** HOME	***Drilling method:*** Rotary	***Pump type:*** SUBMERSIBLE
	Depth: 50.0	***Pump setting depth:*** 45.0	***Water quality:*** OK
Casing	***Length:*** 48.0	***Material:*** PVC	***Diameter:*** 5.0
Screen	***Length:*** 3.0	***Material:*** SS	***Diameter:*** 4.0 ***Slot size:*** .035

Well Capacity Test

Type of test: AIR ***Test rate:*** 20.0 gpm for 1.0 hrs. ***BailTest rate:*** gpm for hrs.
Drawdown: ft. ***Static water level:*** 18.0 ft. ***Bailer Drawdown*** ft.

Grouting Information

Material: BENTONITE ***Depth:*** from 4.0 to 40.0
Installation Method: PUMP ***Number of bags used:*** 1.5

Well Abandonment

Sealing material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: Marion ***Township:*** 15N ***Range:*** 3E
Section: NE of the NWof the SW of Section 5 ***Topo map:*** Indianapolis West
Grant Number:
Field located by: MCBN ***on:*** Jan 01, 1992
Courthouse location by: ***on:***
Location accepted w/o verification by: ***on:***
Subdivision name: ***Lot number:***
Ft W of EL: ***Ft N of SL:*** ***Ft E of WL:*** ***Ft S of NL:***
Ground elevation: 716.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 666.0
UTM Easting: 565841.8 ***UTM Northing:*** 4402515.5

Well Log

Top	Bottom	Formation
0.0	7.0	BR CLAY
7.0	11.0	SANDY CLAY
11.0	39.0	S&G
39.0	45.0	GREY CLAY
45.0	50.0	S&G

Comments MC666

ARCADIS

Attachment B

Laboratory Analytical Report

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

August 11, 2009

Ms. Susan Scrocchi
Conestoga-Rovers and Associates
2055 Niagara Falls Blvd
Suite 2
Niagara Falls, NY 14304

RE: Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Dear Ms. Scrocchi:
Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5029030001	**TB-1(080509)RW**	Water	08/05/09 08:00	08/06/09 17:01
5029030002	**MW-0818-S3(080509)**	Water	08/05/09 11:34	08/06/09 17:01
5029030003	**FD-1(080509)RW**	Water	08/05/09 08:00	08/06/09 17:01
5029030004	**MW-0102-S2B(080509)**	Water	08/05/09 12:43	08/06/09 17:01
5029030005	**MW-0525-S2(080509)**	Water	08/05/09 14:12	08/06/09 17:01
5029030006	**MW-0524-S2A(080509)**	Water	08/05/09 15:19	08/06/09 17:01
5029030007	**MW-0524-S2B(080509)**	Water	08/05/09 16:24	08/06/09 17:01
5029030008	**MW-0522-S2A(080609)**	Water	08/06/09 08:18	08/06/09 17:01
5029030009	**MW-0522-S2B(080609)**	Water	08/06/09 09:24	08/06/09 17:01

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5029030001	**TB-1(080509)RW**	EPA 8260	RSR	51
5029030002	**MW-0818-S3(080509)**	EPA 8260	RSR	51
5029030003	**FD-1(080509)RW**	EPA 8260	RSR	51
5029030004	**MW-0102-S2B(080509)**	EPA 8260	RSR	51
5029030005	**MW-0525-S2(080509)**	EPA 8260	RSR	51
5029030006	**MW-0524-S2A(080509)**	EPA 8260	RSR	51
5029030007	**MW-0524-S2B(080509)**	EPA 8260	RSR	51
5029030008	**MW-0522-S2A(080609)**	EPA 8260	RSR	51
5029030009	**MW-0522-S2B(080609)**	EPA 8260	RSR	51

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: TB-1(080509)RW **Lab ID: 5029030001** Collected: 08/05/09 08:00 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 12:55	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 12:55	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 12:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 12:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 12:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 12:55	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 12:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 12:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 12:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 12:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 12:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 12:55	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 12:55	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 12:55	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 12:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 12:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 12:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 12:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 12:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 12:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 12:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 12:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 12:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 12:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 12:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 12:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 12:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 12:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 12:55	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 12:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 12:55	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 12:55	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 12:55	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 12:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 12:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 12:55	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 12:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 12:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 12:55	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 12:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 12:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 12:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 12:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 12:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 12:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 12:55	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 12:55	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: TB-1(080509)RW **Lab ID: 5029030001** Collected: 08/05/09 08:00 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 12:55	1330-20-7	
Dibromofluoromethane (S)	97	%	80-123	1		08/07/09 12:55	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		08/07/09 12:55	460-00-4	
Toluene-d8 (S)	93	%	80-116	1		08/07/09 12:55	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0818-S3(080509) **Lab ID: 5029030002** Collected: 08/05/09 11:34 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 13:28	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 13:28	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 13:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 13:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 13:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 13:28	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 13:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 13:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 13:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 13:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 13:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 13:28	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 13:28	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 13:28	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 13:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 13:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 13:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 13:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 13:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 13:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 13:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 13:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 13:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 13:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 13:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 13:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 13:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 13:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 13:28	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 13:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 13:28	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 13:28	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 13:28	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 13:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 13:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 13:28	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 13:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 13:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 13:28	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 13:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 13:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 13:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 13:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 13:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 13:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 13:28	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 13:28	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0818-S3(080509) **Lab ID: 5029030002** Collected: 08/05/09 11:34 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 13:28	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		08/07/09 13:28	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		08/07/09 13:28	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		08/07/09 13:28	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: FD-1(080509)RW **Lab ID: 5029030003** Collected: 08/05/09 08:00 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 14:01	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 14:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 14:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 14:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 14:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 14:01	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 14:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 14:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 14:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 14:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 14:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 14:01	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 14:01	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 14:01	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 14:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 14:01	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 14:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 14:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 14:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 14:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 14:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 14:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 14:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 14:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 14:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 14:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 14:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 14:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 14:01	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 14:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 14:01	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 14:01	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 14:01	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 14:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 14:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 14:01	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 14:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 14:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 14:01	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 14:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 14:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 14:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 14:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 14:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 14:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 14:01	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 14:01	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: FD-1(080509)RW **Lab ID: 5029030003** Collected: 08/05/09 08:00 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 14:01	1330-20-7	
Dibromofluoromethane (S)	95	%	80-123	1		08/07/09 14:01	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		08/07/09 14:01	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		08/07/09 14:01	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0102-S2B(080509) **Lab ID: 5029030004** Collected: 08/05/09 12:43 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 14:34	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 14:34	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 14:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 14:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 14:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 14:34	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 14:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 14:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 14:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 14:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 14:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 14:34	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 14:34	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 14:34	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 14:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 14:34	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 14:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 14:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 14:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 14:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 14:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 14:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 14:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 14:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 14:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 14:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 14:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 14:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 14:34	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 14:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 14:34	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 14:34	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 14:34	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 14:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 14:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 14:34	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 14:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 14:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 14:34	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 14:34	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 14:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 14:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 14:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 14:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 14:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 14:34	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 14:34	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0102-S2B(080509) **Lab ID: 5029030004** Collected: 08/05/09 12:43 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 14:34	1330-20-7	
Dibromofluoromethane (S)	98	%	80-123	1		08/07/09 14:34	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		08/07/09 14:34	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		08/07/09 14:34	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0525-S2(080509) **Lab ID: 5029030005** Collected: 08/05/09 14:12 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 16:13	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 16:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 16:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 16:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 16:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 16:13	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 16:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 16:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 16:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 16:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 16:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 16:13	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 16:13	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 16:13	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 16:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 16:13	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 16:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 16:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 16:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 16:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 16:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 16:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 16:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 16:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 16:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 16:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 16:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 16:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 16:13	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 16:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 16:13	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 16:13	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 16:13	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 16:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 16:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 16:13	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 16:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 16:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 16:13	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 16:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 16:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 16:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 16:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 16:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 16:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 16:13	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 16:13	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0525-S2(080509) **Lab ID: 5029030005** Collected: 08/05/09 14:12 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 16:13	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		08/07/09 16:13	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		08/07/09 16:13	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		08/07/09 16:13	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0524-S2A(080509) **Lab ID: 5029030006** Collected: 08/05/09 15:19 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 16:45	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 16:45	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 16:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 16:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 16:45	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 16:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 16:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 16:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 16:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 16:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 16:45	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 16:45	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 16:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 16:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 16:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 16:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 16:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 16:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 16:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 16:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 16:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 16:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 16:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 16:45	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 16:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 16:45	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 16:45	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 16:45	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 16:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 16:45	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 16:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 16:45	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 16:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 16:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 16:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 16:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 16:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 16:45	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 16:45	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0524-S2A(080509) **Lab ID: 5029030006** Collected: 08/05/09 15:19 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 16:45	1330-20-7	
Dibromofluoromethane (S)	100	%	80-123	1		08/07/09 16:45	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		08/07/09 16:45	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		08/07/09 16:45	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0524-S2B(080509) **Lab ID: 5029030007** Collected: 08/05/09 16:24 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 17:18	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 17:18	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 17:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 17:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 17:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 17:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 17:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 17:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 17:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 17:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 17:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 17:18	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 17:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 17:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 17:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 17:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 17:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 17:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 17:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 17:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 17:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 17:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 17:18	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 17:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 17:18	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 17:18	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 17:18	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 17:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 17:18	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 17:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 17:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 17:18	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 17:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 17:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 17:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 17:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 17:18	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 17:18	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0524-S2B(080509) **Lab ID: 5029030007** Collected: 08/05/09 16:24 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 17:18	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		08/07/09 17:18	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		08/07/09 17:18	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		08/07/09 17:18	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0522-S2A(080609) **Lab ID: 5029030008** Collected: 08/06/09 08:18 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 17:51	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 17:51	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 17:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 17:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 17:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 17:51	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 17:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 17:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 17:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 17:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 17:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 17:51	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 17:51	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 17:51	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 17:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 17:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 17:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 17:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 17:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 17:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 17:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 17:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 17:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 17:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 17:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 17:51	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 17:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 17:51	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 17:51	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 17:51	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 17:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 17:51	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 17:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 17:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 17:51	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 17:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 17:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 17:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 17:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 17:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 17:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 17:51	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 17:51	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0522-S2A(080609) **Lab ID: 5029030008** Collected: 08/06/09 08:18 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 17:51	1330-20-7	
Dibromofluoromethane (S)	108	%	80-123	1		08/07/09 17:51	1868-53-7	
4-Bromofluorobenzene (S)	93	%	70-126	1		08/07/09 17:51	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		08/07/09 17:51	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0522-S2B(080609) **Lab ID: 5029030009** Collected: 08/06/09 09:24 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		08/07/09 18:24	67-64-1	
Benzene	ND	ug/L	5.0	1		08/07/09 18:24	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/07/09 18:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/07/09 18:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/07/09 18:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		08/07/09 18:24	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		08/07/09 18:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/07/09 18:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/07/09 18:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/07/09 18:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/07/09 18:24	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/07/09 18:24	74-87-3	
Cyclohexane	ND	ug/L	100	1		08/07/09 18:24	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		08/07/09 18:24	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		08/07/09 18:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		08/07/09 18:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 18:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 18:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/07/09 18:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		08/07/09 18:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/07/09 18:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/07/09 18:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/07/09 18:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 18:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/07/09 18:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/07/09 18:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 18:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/07/09 18:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/07/09 18:24	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		08/07/09 18:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		08/07/09 18:24	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		08/07/09 18:24	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		08/07/09 18:24	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		08/07/09 18:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		08/07/09 18:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		08/07/09 18:24	1634-04-4	
Styrene	ND	ug/L	5.0	1		08/07/09 18:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/07/09 18:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/07/09 18:24	127-18-4	
Toluene	ND	ug/L	5.0	1		08/07/09 18:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		08/07/09 18:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/07/09 18:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/07/09 18:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/07/09 18:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/07/09 18:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		08/07/09 18:24	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		08/07/09 18:24	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0522-S2B(080609) **Lab ID: 5029030009** Collected: 08/06/09 09:24 Received: 08/06/09 17:01 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 18:24	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		08/07/09 18:24	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		08/07/09 18:24	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		08/07/09 18:24	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

QC Batch: MSV/17872 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5029030001, 5029030002, 5029030003, 5029030004, 5029030005, 5029030006, 5029030007, 5029030008, 5029030009

METHOD BLANK: 331288 Matrix: Water
Associated Lab Samples: 5029030001, 5029030002, 5029030003, 5029030004, 5029030005, 5029030006, 5029030007, 5029030008, 5029030009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1-Dichloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1-Dichloroethene	ug/L	ND	5.0	08/07/09 09:06	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dichloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dichloropropane	ug/L	ND	5.0	08/07/09 09:06	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
2-Butanone (MEK)	ug/L	ND	25.0	08/07/09 09:06	
2-Hexanone	ug/L	ND	25.0	08/07/09 09:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	08/07/09 09:06	
Acetone	ug/L	ND	100	08/07/09 09:06	
Benzene	ug/L	ND	5.0	08/07/09 09:06	
Bromodichloromethane	ug/L	ND	5.0	08/07/09 09:06	
Bromoform	ug/L	ND	5.0	08/07/09 09:06	
Bromomethane	ug/L	ND	5.0	08/07/09 09:06	
Carbon disulfide	ug/L	ND	10.0	08/07/09 09:06	
Carbon tetrachloride	ug/L	ND	5.0	08/07/09 09:06	
Chlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
Chloroethane	ug/L	ND	5.0	08/07/09 09:06	
Chloroform	ug/L	ND	5.0	08/07/09 09:06	
Chloromethane	ug/L	ND	5.0	08/07/09 09:06	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/07/09 09:06	
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/07/09 09:06	
Cyclohexane	ug/L	ND	100	08/07/09 09:06	
Dibromochloromethane	ug/L	ND	5.0	08/07/09 09:06	
Dichlorodifluoromethane	ug/L	ND	5.0	08/07/09 09:06	
Ethylbenzene	ug/L	ND	5.0	08/07/09 09:06	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	08/07/09 09:06	
Methyl acetate	ug/L	ND	50.0	08/07/09 09:06	
Methyl-tert-butyl ether	ug/L	ND	4.0	08/07/09 09:06	
Methylcyclohexane	ug/L	ND	50.0	08/07/09 09:06	
Methylene chloride	ug/L	ND	5.0	08/07/09 09:06	
Styrene	ug/L	ND	5.0	08/07/09 09:06	
Tetrachloroethene	ug/L	ND	5.0	08/07/09 09:06	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

METHOD BLANK: 331288 Matrix: Water

Associated Lab Samples: 5029030001, 5029030002, 5029030003, 5029030004, 5029030005, 5029030006, 5029030007, 5029030008, 5029030009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	08/07/09 09:06	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/07/09 09:06	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/07/09 09:06	
Trichloroethene	ug/L	ND	5.0	08/07/09 09:06	
Trichlorofluoromethane	ug/L	ND	5.0	08/07/09 09:06	
Vinyl chloride	ug/L	ND	2.0	08/07/09 09:06	
Xylene (Total)	ug/L	ND	10.0	08/07/09 09:06	
4-Bromofluorobenzene (S)	%	100	70-126	08/07/09 09:06	
Dibromofluoromethane (S)	%	99	80-123	08/07/09 09:06	
Toluene-d8 (S)	%	98	80-116	08/07/09 09:06	

LABORATORY CONTROL SAMPLE: 331289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.7	95	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	44.1	88	69-131	
1,1,2-Trichloroethane	ug/L	50	47.6	95	77-132	
1,1,2-Trichlorotrifluoroethane	ug/L	50	58.4	117	70-130	
1,1-Dichloroethane	ug/L	50	45.1	90	67-133	
1,1-Dichloroethene	ug/L	50	48.3	97	63-128	
1,2,4-Trichlorobenzene	ug/L	50	44.8	90	60-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	75-126	
1,2-Dichlorobenzene	ug/L	50	48.6	97	76-124	
1,2-Dichloroethane	ug/L	50	48.0	96	69-139	
1,2-Dichloropropane	ug/L	50	47.4	95	76-129	
1,3-Dichlorobenzene	ug/L	50	47.8	96	76-125	
1,4-Dichlorobenzene	ug/L	50	48.4	97	75-122	
2-Butanone (MEK)	ug/L	250	357	143	47-189	
2-Hexanone	ug/L	250	334	133	57-167	
4-Methyl-2-pentanone (MIBK)	ug/L	250	244	98	61-135	
Acetone	ug/L	250	496	198	30-170	L3
Benzene	ug/L	50	52.4	105	78-127	
Bromodichloromethane	ug/L	50	48.7	97	69-133	
Bromoform	ug/L	50	48.1	96	60-127	
Bromomethane	ug/L	50	32.9	66	30-170	
Carbon disulfide	ug/L	100	82.6	83	58-152	
Carbon tetrachloride	ug/L	50	54.3	109	62-143	
Chlorobenzene	ug/L	50	49.1	98	75-123	
Chloroethane	ug/L	50	47.3	95	56-153	
Chloroform	ug/L	50	51.8	104	74-131	
Chloromethane	ug/L	50	45.5	91	35-147	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	74-128	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	58-123	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

LABORATORY CONTROL SAMPLE: 331289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	ND	96	63-134	
Dibromochloromethane	ug/L	50	50.8	102	66-131	
Dichlorodifluoromethane	ug/L	50	52.3	105	30-170	
Ethylbenzene	ug/L	50	50.2	100	81-126	
Isopropylbenzene (Cumene)	ug/L	50	49.3	99	80-130	
Methyl acetate	ug/L	50	44.6J	89	30-170	
Methyl-tert-butyl ether	ug/L	100	106	106	66-147	
Methylcyclohexane	ug/L	50	46.4J	93	65-135	
Methylene chloride	ug/L	50	46.5	93	32-164	
Styrene	ug/L	50	49.7	99	74-128	
Tetrachloroethene	ug/L	50	48.1	96	60-119	
Toluene	ug/L	50	51.4	103	75-129	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	71-126	
trans-1,3-Dichloropropene	ug/L	50	46.2	92	54-123	
Trichloroethene	ug/L	50	48.4	97	74-130	
Trichlorofluoromethane	ug/L	50	48.1	96	62-150	
Vinyl chloride	ug/L	50	45.6	91	55-141	
Xylene (Total)	ug/L	150	149	100	76-132	
4-Bromofluorobenzene (S)	%			102	70-126	
Dibromofluoromethane (S)	%			100	80-123	
Toluene-d8 (S)	%			102	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331290 331291

Parameter	Units	5029030004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	43.3	52.4	87	105	64-143	19	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.8	49.7	88	99	64-142	13	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	44.2	51.1	88	102	71-143	14	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	53.1	62.9	106	126	70-130	17	20	
1,1-Dichloroethane	ug/L	ND	50	50	41.9	47.2	84	94	68-139	12	20	
1,1-Dichloroethene	ug/L	ND	50	50	43.8	52.8	88	106	55-140	18	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	35.0	39.2	70	78	28-140	11	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	46.6	51.1	93	102	39-140	9	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	39.7	43.0	79	86	67-134	8	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	42.4	49.6	85	99	48-137	16	20	
1,2-Dichloroethane	ug/L	ND	50	50	45.3	53.8	91	108	63-148	17	20	
1,2-Dichloropropane	ug/L	ND	50	50	42.7	51.1	85	102	70-136	18	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	39.5	45.3	79	91	40-143	14	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	39.7	45.4	79	91	38-142	14	20	
2-Butanone (MEK)	ug/L	ND	250	250	218	257	87	103	62-132	16	20	
2-Hexanone	ug/L	ND	250	250	228	268	91	107	61-141	16	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	235	267	94	107	57-135	13	20	
Acetone	ug/L	ND	250	250	186	232	75	93	30-170	22	20	R1
Benzene	ug/L	ND	50	50	48.4	57.0	97	114	63-141	16	20	
Bromodichloromethane	ug/L	ND	50	50	41.7	52.2	83	104	63-135	22	20	R1
Bromoform	ug/L	ND	50	50	41.1	48.7	82	97	58-124	17	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331290 331291

Parameter	Units	5029030004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromomethane	ug/L	ND	50	50	18.5	29.7	37	59	30-170	46	20	R1
Carbon disulfide	ug/L	ND	100	100	75.1	88.2	75	88	46-162	16	20	
Carbon tetrachloride	ug/L	ND	50	50	44.8	55.3	90	111	54-145	21	20	R1
Chlorobenzene	ug/L	ND	50	50	41.5	47.8	83	96	56-133	14	20	
Chloroethane	ug/L	ND	50	50	44.1	50.7	88	101	54-157	14	20	
Chloroform	ug/L	ND	50	50	47.2	55.8	94	112	67-134	17	20	
Chloromethane	ug/L	ND	50	50	41.8	54.0	84	108	36-137	26	20	R1
cis-1,2-Dichloroethene	ug/L	ND	50	50	43.4	51.2	87	102	65-132	16	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.2	50.8	90	102	46-121	12	20	
Cyclohexane	ug/L	ND	50	50	ND	52.4J	89	105	39-167		20	
Dibromochloromethane	ug/L	ND	50	50	44.3	50.4	89	101	64-124	13	20	
Dichlorodifluoromethane	ug/L	ND	50	50	49.6	59.3	99	119	30-163	18	20	
Ethylbenzene	ug/L	ND	50	50	42.7	46.0	85	92	44-151	7	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	40.4	45.8	81	92	40-148	12	20	
Methyl acetate	ug/L	ND	50	50	40.3J	46.8J	81	94	40-182		20	
Methyl-tert-butyl ether	ug/L	ND	100	100	95.2	105	95	105	52-156	10	20	
Methylcyclohexane	ug/L	ND	50	50	41.3J	50.0	83	100	44-158		20	
Methylene chloride	ug/L	ND	50	50	40.6	48.6	81	97	46-154	18	20	
Styrene	ug/L	ND	50	50	40.2	42.1	80	84	38-141	5	20	
Tetrachloroethene	ug/L	ND	50	50	40.6	45.9	81	92	25-146	12	20	
Toluene	ug/L	ND	50	50	43.6	48.8	87	98	59-142	11	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	47.9	54.1	96	108	60-137	12	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	38.6	45.8	77	92	43-117	17	20	
Trichloroethene	ug/L	ND	50	50	41.5	50.7	83	101	61-137	20	20	
Trichlorofluoromethane	ug/L	ND	50	50	44.3	54.6	89	109	53-162	21	20	R1
Vinyl chloride	ug/L	ND	50	50	41.6	53.1	83	106	51-144	24	20	R1
Xylene (Total)	ug/L	ND	150	150	124	139	82	93	44-152	12	20	
4-Bromofluorobenzene (S)	%						101	98	70-126		20	
Dibromofluoromethane (S)	%						101	104	80-123		20	
Toluene-d8 (S)	%						102	97	80-116		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
R1	RPD value was outside control limits.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

X

Page: 1 of 1

1302985

Section A Required Client Information:

Company:	ARCADIS
Address:	257 E. OHIO ST. STE. 800 INDIANAPOLIS, IN 46204
Email To:	SARAH.FISHER@ARCADIS-US.COM
Phone:	317-231-6500
Fax:	317-231-6514
Requested Due Date/TAT:	48 HR

Section B Required Project Information:

Report To:	SARAH FISHER
Copy To:	HEATHER GASTINEAU - LYONS
Purchase Order No.:	IN000473.0020.00004
Project Name:	AT STAGE III
Project Number:	IN000473.0020.00004

Section C Invoice Information:

Attention:	SARAH FISHER
Company Name:	ARCADIS
Address:	'SAME'
Pace Quote Reference:	
Pace Project Manager:	DONNA SPYLER
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: IN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N N

Analysis Test: VOCs

5029030

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-1 (080509) RW WGQ	WT	G			—	—		3				X					X		LAB SUPPLIED -001
2	MW-0818-S3 (080509) WG	WT	G			8/5/09	1134		3				X					X		-002
3	FD-1 (080509) RW	WT	G			8/5/09	—		3				X					X		FIELD DUPLICATE -003
4	MW-0102-S2B (080509)	WT	G			8/5/09	1243		9				X					X		MS/MSD -004
5	MW-0525-S2 (080509)	WT	G			8/5/09	1412		3				X					X		-005
6	MW-0524-S2A (080509)	WT	G			8/5/09	1519		2				X					X		-006
7	MW-0524-S2B (080509)	WT	G			8/5/09	1624		3				X					X		-007
8	MW-0522-S2A (080609)	WT	G			8/6/09	0818		3				X					X		-008
9	MW-0522-S2B (080609)	WT	G			8/6/09	0924		3				X					X		-009
10																				
11																				
12																				

per Sarah Fisher 8/7/09.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* LEVEL IV QA/QC	[signature] / ARCADIS	8/6/09	501p	M Gehring PACE	8/6	501	2.6°C	Y	N	Y
* SSOW # E027017										

W/I Client

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: RANDALL WOODRUFF

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 8/6/09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Arcadis Project # 5029050

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other foam

Thermometer Used 1 2 3 4 5 6 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 2.6°C **Biological Tissue is Frozen:** Yes (No)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/6/09 mg

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No	☑N/A	6.
Rush Turn Around Time Requested:	☑Yes	☐No	☐N/A	7. 48 hours
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: water				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hurst **Date:** 8/7/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Container Count

CLIENT: Arcadis

COC PAGE 1 of 1
COC ID# 1302985

Project # 5029030

Sample Line Item	DG9H	AG1U	WGFU	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															
2	3															
3	3															
4	9															
5	3															
6	2															
7	3															
8	3															
9	3															
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

July 21, 2010

Ms. Susan Scrocchi
Conestoga-Rovers and Associates
2055 Niagara Falls Blvd
Suite 2
Niagara Falls, NY 14304

RE: Project: Allison IN000473.0020
Pace Project No.: 5039200

Dear Ms. Scrocchi:
Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

July 26, 2010

Case Narrative- Level Project Review
Project 5039200 (Conestoga-Rovers and Associates)

General Reporting Comments

Quality control issues or reported footnotes that require more detailed information will be covered in this case narrative. Dilutions of samples are indicated in the sample results section under the heading 'DF'. The raw sample and calibration data is included following the body of the report. This raw data is separated by analysis and then further separated into categories of information.

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

GC/MS Volatiles- Method 8260

All quality control indicators for this project (method blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the report or documented within the raw data.

Theresa L Sheingold

Theresa Sheingold
Quality Analyst
Pace Analytical Services

The review of this project and the associated case narrative are part of a review process for final reports that require a complete set of data deliverables. This process is completed by a member of the Quality Department as part of Pace Analytical's Indiana state requirements.

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Allison IN000473.0020
Pace Project No.: 5039200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5039200001	**MW-1001-S3(100707)**	Water	07/07/10 11:20	07/08/10 10:15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: Allison IN000473.0020
Pace Project No.: 5039200

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5039200001	**MW-1001-S3(100707)**	EPA 8260	RSR	51

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Allison IN000473.0020
Pace Project No.: 5039200

Sample: MW-1001-S3(100707) **Lab ID: 5039200001** Collected: 07/07/10 11:20 Received: 07/08/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		07/15/10 21:23	67-64-1	
Benzene	ND	ug/L	5.0	1		07/15/10 21:23	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/15/10 21:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/15/10 21:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/15/10 21:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		07/15/10 21:23	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		07/15/10 21:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/15/10 21:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/15/10 21:23	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/15/10 21:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/15/10 21:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/15/10 21:23	74-87-3	
Cyclohexane	ND	ug/L	100	1		07/15/10 21:23	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		07/15/10 21:23	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		07/15/10 21:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		07/15/10 21:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/15/10 21:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/15/10 21:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/15/10 21:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		07/15/10 21:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/15/10 21:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/15/10 21:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/15/10 21:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/15/10 21:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/15/10 21:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/15/10 21:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/15/10 21:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/15/10 21:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/15/10 21:23	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		07/15/10 21:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		07/15/10 21:23	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		07/15/10 21:23	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		07/15/10 21:23	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		07/15/10 21:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		07/15/10 21:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		07/15/10 21:23	1634-04-4	
Styrene	ND	ug/L	5.0	1		07/15/10 21:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/15/10 21:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/15/10 21:23	127-18-4	
Toluene	ND	ug/L	5.0	1		07/15/10 21:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		07/15/10 21:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/15/10 21:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/15/10 21:23	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/15/10 21:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/15/10 21:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		07/15/10 21:23	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		07/15/10 21:23	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Allison IN000473.0020
Pace Project No.: 5039200

Sample: MW-1001-S3(100707) **Lab ID: 5039200001** Collected: 07/07/10 11:20 Received: 07/08/10 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		07/15/10 21:23	1330-20-7	
Dibromofluoromethane (S)	108	%	80-123	1		07/15/10 21:23	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		07/15/10 21:23	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		07/15/10 21:23	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Allison IN000473.0020
Pace Project No.: 5039200

QC Batch: MSV/25359 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5039200001

METHOD BLANK: 456878 | Matrix: Water
Associated Lab Samples: 5039200001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/15/10 16:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/15/10 16:27	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/15/10 16:27	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	07/15/10 16:27	
1,1-Dichloroethane	ug/L	ND	5.0	07/15/10 16:27	
1,1-Dichloroethene	ug/L	ND	5.0	07/15/10 16:27	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/15/10 16:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	07/15/10 16:27	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	07/15/10 16:27	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/15/10 16:27	
1,2-Dichloroethane	ug/L	ND	5.0	07/15/10 16:27	
1,2-Dichloropropane	ug/L	ND	5.0	07/15/10 16:27	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/15/10 16:27	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/15/10 16:27	
2-Butanone (MEK)	ug/L	ND	25.0	07/15/10 16:27	
2-Hexanone	ug/L	ND	25.0	07/15/10 16:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	07/15/10 16:27	
Acetone	ug/L	ND	100	07/15/10 16:27	
Benzene	ug/L	ND	5.0	07/15/10 16:27	
Bromodichloromethane	ug/L	ND	5.0	07/15/10 16:27	
Bromoform	ug/L	ND	5.0	07/15/10 16:27	
Bromomethane	ug/L	ND	5.0	07/15/10 16:27	
Carbon disulfide	ug/L	ND	10.0	07/15/10 16:27	
Carbon tetrachloride	ug/L	ND	5.0	07/15/10 16:27	
Chlorobenzene	ug/L	ND	5.0	07/15/10 16:27	
Chloroethane	ug/L	ND	5.0	07/15/10 16:27	
Chloroform	ug/L	ND	5.0	07/15/10 16:27	
Chloromethane	ug/L	ND	5.0	07/15/10 16:27	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/15/10 16:27	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/15/10 16:27	
Cyclohexane	ug/L	ND	100	07/15/10 16:27	
Dibromochloromethane	ug/L	ND	5.0	07/15/10 16:27	
Dichlorodifluoromethane	ug/L	ND	5.0	07/15/10 16:27	
Ethylbenzene	ug/L	ND	5.0	07/15/10 16:27	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	07/15/10 16:27	
Methyl acetate	ug/L	ND	50.0	07/15/10 16:27	
Methyl-tert-butyl ether	ug/L	ND	4.0	07/15/10 16:27	
Methylcyclohexane	ug/L	ND	50.0	07/15/10 16:27	
Methylene chloride	ug/L	ND	5.0	07/15/10 16:27	
Styrene	ug/L	ND	5.0	07/15/10 16:27	
Tetrachloroethene	ug/L	ND	5.0	07/15/10 16:27	
Toluene	ug/L	ND	5.0	07/15/10 16:27	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/15/10 16:27	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Allison IN000473.0020
Pace Project No.: 5039200

METHOD BLANK: 456878 Matrix: Water

Associated Lab Samples: 5039200001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/15/10 16:27	
Trichloroethene	ug/L	ND	5.0	07/15/10 16:27	
Trichlorofluoromethane	ug/L	ND	5.0	07/15/10 16:27	
Vinyl chloride	ug/L	ND	2.0	07/15/10 16:27	
Xylene (Total)	ug/L	ND	10.0	07/15/10 16:27	
4-Bromofluorobenzene (S)	%	100	70-126	07/15/10 16:27	
Dibromofluoromethane (S)	%	112	80-123	07/15/10 16:27	
Toluene-d8 (S)	%	100	80-116	07/15/10 16:27	

LABORATORY CONTROL SAMPLE: 456879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.7	95	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	41.2	82	69-131	
1,1,2-Trichloroethane	ug/L	50	43.3	87	77-132	
1,1,2-Trichlorotrifluoroethane	ug/L	50	45.7	91	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	67-133	
1,1-Dichloroethene	ug/L	50	49.9	100	63-128	
1,2,4-Trichlorobenzene	ug/L	50	43.9	88	60-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.5	89	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	45.4	91	75-126	
1,2-Dichlorobenzene	ug/L	50	41.7	83	76-124	
1,2-Dichloroethane	ug/L	50	52.2	104	69-139	
1,2-Dichloropropane	ug/L	50	42.8	86	76-129	
1,3-Dichlorobenzene	ug/L	50	42.9	86	76-125	
1,4-Dichlorobenzene	ug/L	50	41.8	84	75-122	
2-Butanone (MEK)	ug/L	250	289	115	47-189	
2-Hexanone	ug/L	250	274	110	57-167	
4-Methyl-2-pentanone (MIBK)	ug/L	250	211	85	61-135	
Acetone	ug/L	250	324	129	30-170	
Benzene	ug/L	50	43.8	88	78-127	
Bromodichloromethane	ug/L	50	46.4	93	69-133	
Bromoform	ug/L	50	39.6	79	60-127	
Bromomethane	ug/L	50	43.5	87	30-170	
Carbon disulfide	ug/L	100	91.9	92	58-152	
Carbon tetrachloride	ug/L	50	48.2	96	62-143	
Chlorobenzene	ug/L	50	41.4	83	75-123	
Chloroethane	ug/L	50	44.9	90	56-153	
Chloroform	ug/L	50	49.5	99	74-131	
Chloromethane	ug/L	50	38.2	76	35-147	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	74-128	
cis-1,3-Dichloropropene	ug/L	50	43.3	87	58-123	
Cyclohexane	ug/L	50	ND	91	63-134	
Dibromochloromethane	ug/L	50	43.2	86	66-131	
Dichlorodifluoromethane	ug/L	50	32.1	64	30-170	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Allison IN000473.0020
Pace Project No.: 5039200

LABORATORY CONTROL SAMPLE: 456879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	50	41.7	83	81-126	
Isopropylbenzene (Cumene)	ug/L	50	42.8	86	80-130	
Methyl acetate	ug/L	50	64.1	128	30-170	
Methyl-tert-butyl ether	ug/L	100	98.2	98	66-147	
Methylcyclohexane	ug/L	50	ND	89	65-135	
Methylene chloride	ug/L	50	45.8	92	32-164	
Styrene	ug/L	50	43.1	86	74-128	
Tetrachloroethene	ug/L	50	37.4	75	60-119	
Toluene	ug/L	50	42.2	84	75-129	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	71-126	
trans-1,3-Dichloropropene	ug/L	50	43.5	87	54-123	
Trichloroethene	ug/L	50	46.4	93	74-130	
Trichlorofluoromethane	ug/L	50	46.9	94	62-150	
Vinyl chloride	ug/L	50	40.9	82	55-141	
Xylene (Total)	ug/L	150	128	85	76-132	
4-Bromofluorobenzene (S)	%			105	70-126	
Dibromofluoromethane (S)	%			110	80-123	
Toluene-d8 (S)	%			99	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 456880 456881

Parameter	Units	5039231008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	56.8	60.7	114	121	64-143	7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.6	55.4	99	111	64-142	11	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.9	58.8	104	118	71-143	12	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	54.9	59.8	110	120	70-130	9	20	
1,1-Dichloroethane	ug/L	ND	50	50	57.5	63.0	115	126	68-139	9	20	
1,1-Dichloroethene	ug/L	ND	50	50	63.1	65.6	126	131	55-140	4	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	52.1	56.4	104	113	28-140	8	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	46.1	56.7	92	113	39-140	20	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	53.8	60.4	108	121	67-134	12	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	50.3	55.3	101	111	48-137	10	20	
1,2-Dichloroethane	ug/L	ND	50	50	60.5	67.9	121	136	63-148	12	20	
1,2-Dichloropropane	ug/L	ND	50	50	54.2	58.6	108	117	70-136	8	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	51.5	55.2	103	110	40-143	7	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	49.4	54.3	99	109	38-142	9	20	
2-Butanone (MEK)	ug/L	ND	250	250	271	298	109	119	62-132	9	20	
2-Hexanone	ug/L	ND	250	250	253	286	101	114	61-141	12	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	247	278	99	111	57-135	12	20	
Acetone	ug/L	ND	250	250	269	305	107	122	30-170	13	20	
Benzene	ug/L	ND	50	50	56.9	60.2	114	120	63-141	6	20	
Bromodichloromethane	ug/L	ND	50	50	57.6	60.7	115	121	63-135	5	20	
Bromoform	ug/L	ND	50	50	44.1	49.4	88	99	58-124	11	20	
Bromomethane	ug/L	ND	50	50	52.5	58.8	105	118	30-170	11	20	
Carbon disulfide	ug/L	ND	100	100	113	121	113	121	46-162	7	20	
Carbon tetrachloride	ug/L	ND	50	50	55.3	58.9	111	118	54-145	6	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Allison IN000473.0020
Pace Project No.: 5039200

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 456880 456881

Parameter	Units	5039231008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	50	50	50.7	55.8	101	112	56-133	9	20	
Chloroethane	ug/L	ND	50	50	54.1	57.5	108	115	54-157	6	20	
Chloroform	ug/L	ND	50	50	61.7	67.4	117	128	67-134	9	20	
Chloromethane	ug/L	ND	50	50	45.2	49.2	90	98	36-137	8	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	61.7	65.1	123	130	65-132	5	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	51.9	57.6	104	115	46-121	10	20	
Cyclohexane	ug/L	ND	50	50	58.6J	63.3J	117	127	39-167		20	
Dibromochloromethane	ug/L	ND	50	50	51.1	56.1	102	112	64-124	9	20	
Dichlorodifluoromethane	ug/L	ND	50	50	37.8	41.2	76	82	30-163	9	20	
Ethylbenzene	ug/L	ND	50	50	51.0	55.8	102	112	44-151	9	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	50.8	54.5	102	109	40-148	7	20	
Methyl acetate	ug/L	ND	50	50	75.4	83.0	151	166	40-182	10	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	118	128	118	128	52-156	8	20	
Methylcyclohexane	ug/L	ND	50	50	57.5	61.5	115	123	44-158	7	20	
Methylene chloride	ug/L	ND	50	50	56.7	61.4	113	123	46-154	8	20	
Styrene	ug/L	ND	50	50	51.9	56.8	104	114	38-141	9	20	
Tetrachloroethene	ug/L	ND	50	50	45.8	49.5	92	99	25-146	8	20	
Toluene	ug/L	ND	50	50	53.4	57.4	102	110	59-142	7	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	63.8	67.2	128	134	60-137	5	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	50.4	55.3	101	111	43-117	9	20	
Trichloroethene	ug/L	ND	50	50	59.1	61.5	118	123	61-137	4	20	
Trichlorofluoromethane	ug/L	ND	50	50	53.0	57.7	106	115	53-162	9	20	
Vinyl chloride	ug/L	ND	50	50	51.0	54.8	102	110	51-144	7	20	
Xylene (Total)	ug/L	ND	150	150	158	169	106	113	44-152	6	20	
4-Bromofluorobenzene (S)	%						102	102	70-126		20	
Dibromofluoromethane (S)	%						108	105	80-123		20	
Toluene-d8 (S)	%						100	99	80-116		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: Allison IN000473.0020
Pace Project No.: 5039200

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

GM REALM ENCORE

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 1

ID # № 03998

SSOW Ref. Code: E027026

Required Client Information:

Company: ARCADIS	Report To: H. Gastineau-Lyons	Laboratory: Pace	
Address: 251 E. Ohio St. Ste 800	Copy To: S. Fisher	Laboratory Location: Indianapolis, IN	
	Invoice To: Corporate	Laboratory Contact: D. Spyker	
Indianapolis, IN	P.O.: IN000473.20.0004	Requested Due Date: Normal	TAT:
Phone: 317 236 5214	Project Name: Allison	QA/QC Requirements: Level IV	
Fax: 317 231 6514	Project Number: IN000473.0020.0004		
E-mail: hgastineau@arcadis-us.com Lyons			

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Analysis and Method: VOCs 8260

Preservative

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	VOCs 8260	Remarks/Lab ID
1. MW-1001-S3(100707)	WG	07-07-10	11:20	3		X					X	001
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												
11.												
12.												
13.												
14.												
15.												
		TOTAL NUMBER OF CONTAINERS										

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
Pickup	1	H. Gastineau-Lyons / ARCADIS	7/8/10	10:15	Zekam Tekam	7/8/10	10:15
AIRBILL NO.							

Sample Condition

Temp in °C	6.1°C
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments: 7/8/10 11:32 Pace

Sampler Name: Heather Gastineau-Lyons

Sampler Signature: H. Gastineau-Lyons Date: 7-8-10

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

Sample Condition Upon Receipt

Pace Analytical

Client Name: Arcadis Project # 5039200

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Foam

Thermometer Used 1 2 3 4 5 6 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 6.1°C **Ice Visible in Sample Containers:** ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/8/10

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A Water	8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No ☑N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	10.
Trip Blank Present:	☐Yes ☐No ☑N/A	11.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: out of temp 7/8/10

V.M. Heather 12:20 7/8/10

ok to run per Heather

Project Manager Review: _____ **Date:** 7/8/10

Form F-IN-Q290-rev.0, 02Mar2010

Sample Container Count

CLIENT: Arcadis

COC PAGE 1 of 1
COC ID# 03998

Project # 5039200

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Project Number 5D39200

Initials/ Date Compiled RSR 7/26/10

Section 1: Prep and Analytical Information

** Sample Preparation Logs*
** Sample Analysis Logs*
** QC Summary Sheets*

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Allison IN000473.0020
Pace Project No.: 5039200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5039200001	**MW-1001-S3(100707)**	Water	07/07/10 11:20	07/08/10 10:15

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: Allison IN000473.0020
Pace Project No.: 5039200

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5039200001	**MW-1001-S3(100707)**	EPA 8260	RSR	51

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Allison IN000473.0020
Pace Project No.: 5039200

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1001-S3(100707)
Lab ID: 5039200001
Collected: 07/07/10 11:20
Received: 07/08/10 10:15

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	50.0	1		07/15/10 21:23	
71-43-2	Benzene	ND	ug/L	5.0	1.0	1		07/15/10 21:23	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
75-25-2	Bromoform	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
74-83-9	Bromomethane	ND	ug/L	5.0	3.9	1		07/15/10 21:23	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	12.0	1		07/15/10 21:23	
75-15-0	Carbon disulfide	ND	ug/L	10.0	5.0	1		07/15/10 21:23	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
108-90-7	Chlorobenzene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
75-00-3	Chloroethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
67-66-3	Chloroform	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
74-87-3	Chloromethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
110-82-7	Cyclohexane	ND	ug/L	100	50.0	1		07/15/10 21:23	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5.0	1		07/15/10 21:23	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
100-41-4	Ethylbenzene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
591-78-6	2-Hexanone	ND	ug/L	25.0	12.0	1		07/15/10 21:23	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
79-20-9	Methyl acetate	ND	ug/L	50.0		1		07/15/10 21:23	
108-87-2	Methylcyclohexane	ND	ug/L	50.0		1		07/15/10 21:23	
75-09-2	Methylene chloride	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	12.0	1		07/15/10 21:23	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	2.0	1		07/15/10 21:23	
100-42-5	Styrene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1.0	1		07/15/10 21:23	
108-88-3	Toluene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	

Date: 07/26/2010 03:05 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Allison IN000473.0020
Pace Project No.: 5039200

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1001-S3(100707)
Lab ID: 5039200001
Collected: 07/07/10 11:20
Received: 07/08/10 10:15

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1.0	1		07/15/10 21:23	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	2.5	1		07/15/10 21:23	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1.0	1		07/15/10 21:23	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	5.0	1		07/15/10 21:23	
1868-53-7	Dibromofluoromethane (S)	**108**	%	80-123		1		07/15/10 21:23	
460-00-4	4-Bromofluorobenzene (S)	**99**	%	70-126		1		07/15/10 21:23	
2037-26-5	Toluene-d8 (S)	**102**	%	80-116		1		07/15/10 21:23	

Date: 07/26/2010 03:05 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SURROGATE RECOVERY SUMMARY

Project: Allison IN000473.0020
Pace Project No.: 5039200

QB Batch: MSV / 25359
Method(s): EPA 8260 / EPA 8260

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec	Sur1 Qual	Sur2 % Rec	Sur2 Qual	Sur3 % Rec	Sur3 Qual	Sur4 % Rec	Sur4 Qual	Sur5 % Rec	Sur5 Qual	Sur6 % Rec	Sur6 Qual
456878	BLANK		1	100		112		100							
5039200001		MW-1001-S3(100707)	1	99		108		102							
456879	LCS		1	105		110		99							
456880	MS		1	102		108		100							
456881	MSD		1	102		105		99							
			QC Limits:	70-126		80-123		80-116							

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV5.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:
Surr. lot:
Cal. std: _____

Path/File	~~Lab ID~~	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/B00BFB.D	bfb050 34B-199	L/	BFB	1	-bfb	7/07/10	13:05	rsr	VC↓ in CCVs - New gas
1/B01.D	1ppb	L/	CALIB_1	1	-B8260	7/07/10	13:42	rsr	mix made and curve
1/B02.D	5ppb	L/	CALIB_2	1	-B8260	7/07/10	14:20	rsr	
1/B03.D	10ppb	L/	CALIB_3	1	-B8260	7/07/10	14:57	rsr	
1/B04.D	50ppb 34B-158/204	L/	CALIB_4	1	-B8260	7/07/10	15:34	rsr	
1/B04CCV.D	ccv 34B-158/204	L/	CCALIB_4	1	-B8260	7/07/10	15:34	rsr	✓
1/B05.D	100ppb	L/	CALIB_5	1	-B8260	7/07/10	16:11	rsr	
1/B06.D	150ppb	L/	CALIB_6	1	-B8260	7/07/10	16:49	rsr	
1/B07.D	200ppb	L/	CALIB_7	1	-B8260	7/07/10	17:26	rsr	
1/B08.D	300ppb	L/	CALIB_8	1	-B8260	7/07/10	18:03	rsr	
1/B09ICV.D	icv 34B-165	L/	ICV	1	-B8260	7/07/10	18:40	rsr	Curve passes hell
1/B10MB.D	mb	L/	BLANK	1	-B8260	7/07/10	19:17	rsr	
1/D00BFB.D	bfb050 34B-199	L/	BFB	1	-bfb	7/07/10	19:54	rsr	
1/D01CCV.D	ccv	L/	CCALIB_4	1	-B8260	7/07/10	20:31	rsr	↑VC
1/D02CCV.D	ccv	L/	CCALIB_4	1	-B8260	7/07/10	21:08	rsr	LCS used as CCV
1/D02LCS.D	lcs	L/	LCS	1	-B8260	7/07/10	21:08	rsr	OC passes hell
1/D03MB.D	mb	L/	BLANK	1	-B8260	7/07/10	21:45	rsr	
1/D04.D	5038935009 W	L/	SAMPLE	1	-B8260	7/07/10	22:22	rsr	
1/D05.D	5038935009	L/	SAMPLE	10	-B8260	7/07/10	22:59	rsr	
1/D06.D	5038935010	L/	SAMPLE	1	-B8260	7/07/10	23:36	rsr	
1/D07.D	5038935010	L/	SAMPLE	10	-B8260	7/08/10	00:13	rsr	
1/D08.D	5038935011	L/	SAMPLE	1	-B8260	7/08/10	00:50	rsr	
1/D09.D	ms5038935011	L/	MS	1	-B8260	7/08/10	01:27	rsr	
1/D10.D	msd5038935011	L/	MSD	1	-B8260	7/08/10	02:04	rsr	
1/D11.D	5038935012	L/	SAMPLE	1	-B8260	7/08/10	02:41	rsr	
1/D12.D	5038935012	L/	SAMPLE	10	-B8260	7/08/10	03:17	rsr	
1/D13.D	5038935013	L/	SAMPLE	1	-B8260	7/08/10	03:54	rsr	
1/D14.D	5038935014	L/	SAMPLE	1	-B8260	7/08/10	04:31	rsr	
1/D15.D	5038935015	L/	SAMPLE	1	-B8260	7/08/10	05:08	rsr	
1/D16.D	5038935016	L/	SAMPLE	1	-B8260	7/08/10	05:45	rsr	
1/D17.D	5038935017	L/	SAMPLE	1	-B8260	7/08/10	06:22	rsr	
1/D18.D	5038935017	L/	SAMPLE	10	-B8260	7/08/10	06:58	rsr	
1/D19.D	5038935018	L/	SAMPLE	1	-B8260	7/08/10	07:35	rsr	

MSV 85170

File Path 1: \\50wintarget\chem\50MSV5.i\b070710.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:30 07/08/2010

Page: 1

RSR 7/8/10

All water samples have a pH below 2 unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV5.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]:
ISTD lot: Surr. lot:
Tune std: _____ Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/B00BFB.D	bfb050 34B-199	L/	BFB	1	-bfb	7/15/10	14:35	rsr	QC passes shell
1/B01CCV.D	ccv 34B-158/243	L/	CCALIB_4	1	-B8260	7/15/10	15:12	rsr	
1/B02LCS.D	lcs 34B-165	L/	LCS	1	-B8260	7/15/10	15:49	rsr	
1/B03MB.D	mb MeOH 096181	L/	BLANK	1	-B8260	7/15/10	16:27	rsr	
1/B04.D	5039111007 USTW	L/	SAMPLE	25	-B8260	7/15/10	17:04	rsr	25296
1/B05.D	5039238014	L/	SAMPLE	10	-B8260	7/15/10	17:41	rsr	bad purge
1/B06.D	5039238015	L/ MSV 25358	SAMPLE	1	-B8260	7/15/10	18:18	rsr	
1/B07.D	5039367002	L/	SAMPLE	1	-B8260	7/15/10	18:55	rsr	
1/B08.D	5039367001	L/	SAMPLE	50	-B8260	7/15/10	19:31	rsr	
1/B09.D	5039263001 W	L/	SAMPLE	1	-B8260	7/15/10	20:08	rsr	
1/B10.D	5039263011	L/	SAMPLE	1	-B8260	7/15/10	20:46	rsr	
1/B11.D	5039200001	L/	SAMPLE	1	-B8260	7/15/10	21:23	rsr	
1/B12.D	5039231008	L/	SAMPLE	1	-B8260	7/15/10	21:59	rsr	
1/B13.D	ms5039231008	L/	MS	1	-B8260	7/15/10	22:37	rsr	
1/B14.D	msd5039231008	L/ MSV 25359	MSD	1	-B8260	7/15/10	23:14	rsr	
1/B15.D	5039231009	L/	SAMPLE	1	-B8260	7/15/10	23:51	rsr	
1/B16.D	5039231010	L/	SAMPLE	1	-B8260	7/16/10	00:28	rsr	
1/B17.D	5039231011	L/	SAMPLE	1	-B8260	7/16/10	01:05	rsr	
1/B18.D	5039231012	L/	SAMPLE	1	-B8260	7/16/10	01:42	rsr	
1/B19.D	5039299002 SOil	S/ MSV 25360	SAMPLE	1	-B8260	7/16/10	02:19	rsr	
1/D00BFB.D	bfb050 34B-199	L/	BFB	1	-bfb	7/16/10	02:56	rsr	
1/D01CCV.D	ccv	L/	CCALIB_4	1	-B8260	7/16/10	03:33	rsr	QC passes shell
1/D02LCS.D	lcs	L/	LCS	1	-B8260	7/16/10	04:10	rsr	
1/D03MB.D	mb	L/	BLANK	1	-B8260	7/16/10	04:47	rsr	
1/D04.D	5039299001 SOil	S/	SAMPLE	1	-B8260	7/16/10	05:24	rsr	
1/D05.D	ms5039299001	S/	MS	1	-B8260	7/16/10	06:01	rsr	
1/D06.D	msd5039299001	S/	MSD	1	-B8260	7/16/10	06:38	rsr	
1/D07.D	5039299003	S/ MSV 25361	SAMPLE	1	-B8260	7/16/10	07:15	rsr	
1/D08.D	5039299004	S/	SAMPLE	1	-B8260	7/16/10	07:52	rsr	
1/D09.D	5039299005	S/	SAMPLE	1	-B8260	7/16/10	08:28	rsr	
1/D10.D	5039299006	S/	SAMPLE	1	-B8260	7/16/10	09:05	rsr	

File Path 1: \\50wintarget\chem\50MSV5.i\b071510.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:17 07/16/2010 Page: 1

- Run stopped by PC error 7/16/10 RSR

RSR 7/16/10

All water samples have a pH below 2 unless otherwise noted

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B071510.B

Lab File ID (Standard): B01CCV Date Analyzed: 07/15/10

Instrument ID: 50MSV5 Time Analyzed: 1512

GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(CBZ) AREA #	RT #	IS2(DCB) AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	115714	7.22	74752	8.72	126863	4.01
	UPPER LIMIT	231428	7.72	149504	9.22	253726	4.51
	LOWER LIMIT	57857	6.72	37376	8.22	63432	3.51
	EPA SAMPLE NO.						
01	LCS	116536	7.22	75796	8.72	129592	4.01
02	MB	105291	7.22	65375	8.72	119622	4.01
03	5039111007	116021	7.22	73188	8.72	123191	4.01
04	5039238014						
05	5039238015	91022	7.22	57241	8.72	105999	4.01
06	5039367002	96455	7.22	58608	8.72	113888	4.02
07	5039367001	107826	7.22	74427	8.72	109352	4.02
08	5039263001	109656	7.22	66378	8.72	131221	4.01
09	5039263011	153206	7.22	97953	8.72	178010	4.02
10	5039200001	135778	7.22	86126	8.72	158506	4.02
11	5039231008	139824	7.22	87285	8.72	166650	4.01
12	MS5039231008	145892	7.22	91921	8.72	158044	4.01
13	MSD503923100	139017	7.22	87088	8.72	153913	4.01
14	5039231009	139172	7.22	87551	8.72	166370	4.02
15	5039231010	149759	7.22	93867	8.72	174036	4.01
16	5039231011	138039	7.22	85782	8.72	157796	4.01
17	5039231012	142571	7.22	84351	8.72	159322	4.01
18	5039299002	135970	7.22	80801	8.72	156222	4.01
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

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

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

Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 2: Initial Calibration Data

** Initial Calibration Summary Table*
** BFB Tune Information*
** Initial Calibration Standards*
** ICV Standard*

Initial Calibrations included:
(Instrument name and calibration date)

ICAL 1: 50msv5 C-2 07/07/10

ICAL 2: _____

ICAL 3: _____

ICAL 4: _____

Report Date : 08-Jul-2010 11:08

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Reviewed amv 7/8/10

Calibration File Names:
Level 1: \\50wintarget\chem\50MSV5.i\b070710.b\B01.D
Level 2: \\50wintarget\chem\50MSV5.i\b070710.b\B02.D
Level 3: \\50wintarget\chem\50MSV5.i\b070710.b\B03.D
Level 4: \\50wintarget\chem\50MSV5.i\b070710.b\B04.D
Level 5: \\50wintarget\chem\50MSV5.i\b070710.b\B05.D
Level 6: \\50wintarget\chem\50MSV5.i\b070710.b\B06.D
Level 7: \\50wintarget\chem\50MSV5.i\b070710.b\B07.D
Level 8: \\50wintarget\chem\50MSV5.i\b070710.b\B08.D

All CCIs below 30% RSD RSR 7/8/10

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
1 Dichlorodifluoromethane	0.28131	0.35065	0.48196	0.42846	0.39509	0.39646					
	0.38357	0.36756					AVRG		0.38563		15.10675
2 Chloromethane	0.42319	0.49500	0.66071	0.57262	0.54620	0.58668					
	0.58051	0.58363					AVRG		0.55607		12.71654
3 Vinyl Chloride	0.25975	0.32179	0.43165	0.39327	0.35799	0.37360					
	0.36840	0.35446					AVRG		0.35761		14.17769

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
4 Bromomethane	+++++	0.15951	0.22963	0.23407	0.22071	0.22809					
	0.21728	0.16926					AVRG		0.20836		14.72811
139 Methyl Acetate	0.20958	0.18129	0.17239	0.20152	0.18095	0.18030					
	0.16347	0.16623					AVRG		0.18197		8.88736
5 Chloroethane	0.13886	0.16878	0.22864	0.19250	0.17740	0.18167					
	0.17390	0.16582					AVRG		0.17844		14.31662
6 Trichlorofluoromethane	2312	7133	21255	90116	180744	268242					
	357399	527862					LINR	-0.06871	0.46486		0.99795
7 Diethyl ether	+++++	0.07430	0.07619	0.08853	0.08178	0.08877					
	0.08384	0.08449					AVRG		0.08256		6.79642
8 Acrolein	0.01892	0.02304	0.02770	0.02605	0.02419	0.02364					
	0.02128	0.01813					AVRG		0.02287		14.44276
9 1,1-Dichloroethene	+++++	0.18459	0.19247	0.21917	0.20680	0.21971					
	0.21492	0.20552					AVRG		0.20617		6.51649

5-300ppb

5-300ppb

5-300 ppb

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
10 1,1,2trichlorotrifluoroethane	+++++	0.22023	0.23222	0.25738	0.23781	0.25290					
	0.24934	0.24418					AVRG		0.24201		5.33738
11 Acetone	2433	4781	7947	35653	71254	105684					
	133901	189861					LINR	-0.81798	0.03382		0.99241
12 Iodomethane	367	6099	20581	145523	303007	470082					
	626321	939865					LINR	0.02147	0.41687		0.99866
13 Carbon Disulfide	0.52885	0.56490	0.59767	0.66035	0.61640	0.65840					
	0.65098	0.63300					AVRG		0.61382		7.73551
142 Acetonitrile	0.02396	0.02801	0.02889	0.03238	0.02931	0.03021					
	0.02874	0.02826					AVRG		0.02872		8.25828
14 allyl chloride	0.39257	0.45811	0.47304	0.52001	0.47357	0.48848					
	0.48817	0.47948					AVRG		0.47168		7.76822
15 Methylene Chloride	4455	7630	10804	40431	75263	115650					
	150520	228058					LINR	-0.14616	0.19551		0.99892

5-300904

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
16 Acrylonitrile	0.05977	0.05562	0.05390	0.05931	0.05573	0.05641					
	0.05165	0.04855					AVRG		0.05512		6.79653
17 tert-Butyl Alcohol	+++++	0.01154	0.01026	0.01366	0.01299	0.01292					
	0.01157	0.01041					AVRG		0.01191		11.09759
18 1,2-Dichloroethene (trans)	0.16502	0.20654	0.22287	0.24124	0.22701	0.23830					
	0.22992	0.23697					AVRG		0.22098		11.37834
19 Methyl-tert-butyl ether	0.40163	0.41734	0.40865	0.45935	0.42947	0.45496					
	0.44461	0.45540					AVRG		0.43393		5.25545
20 n-Hexane	0.39732	0.41840	0.44375	0.48750	0.44447	0.47902					
	0.47265	0.48983					AVRG		0.45412		7.47056
21 1,1-Dichloroethane	0.37029	0.44348	0.44597	0.49971	0.46046	0.49551					
	0.47553	0.48972					AVRG		0.46008		9.17721
23 Vinyl Acetate	0.38826	0.40463	0.38009	0.44548	0.39931	0.42665					
	0.38636	0.39707					AVRG		0.40348		5.48824

10-0.00ppb

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1 / 200.0000 Level 7	5.0000 Level 2 / 300.0000 Level 8	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
143 Chloroprene	0.35448	0.44755	0.47742	0.52116	0.48217	0.52102					
	0.50873	0.51666					AVRG		0.47865		11.80529
24 2,2-Dichloropropane	0.23172	0.31005	0.32705	0.36563	0.33749	0.36440					
	0.36080	0.36746					AVRG		0.33307		13.82877
25 1,2-Dichloroethene (cis)	+++++	0.23316	0.23815	0.26536	0.24275	0.25734					
	0.24871	0.25536					AVRG		0.24869		4.59869
26 2-Butanone	0.10862	0.08272	0.07590	0.08539	0.07826	0.08285					
	0.07796	0.07367					AVRG		0.08317		13.22542
27 Propionitrile	+++++	+++++	0.01284	0.02133	0.02136	0.02309					
	0.02185	0.02172					AVRG		0.02036		18.37141
144 Methacrylonitrile	+++++	0.02326	0.02149	0.02434	0.02935	0.03003					
	0.02804	0.02621					AVRG		0.02610		12.32393
28 1,2-dichlorotrifluoroethane	0.19147	0.25198	0.25918	0.28753	0.26898	0.29552					
	0.28549	0.29890					AVRG		0.26738		13.10006

5-300ppb

<-NTC

5300 ppb

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1 / 200.0000 Level 7	5.0000 Level 2 / 300.0000 Level 8	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Bromochloromethane	0.17738	0.24803	0.24923	0.27098	0.24548	0.25500					
	0.24643	0.24251					AVRG		0.24188		11.38104
30 Tetrahydrofuran	1.04131	0.25275	0.14622	0.07421	0.05940	0.05636					
	0.05037	0.04677					AVRG		0.21592		158 <-
31 Chloroform	0.27140	0.39892	0.41554	0.44697	0.41867	0.44359					
	0.42683	0.43191					AVRG		0.40673		13.97396
33 1,1,1-Trichloroethane	+++++	0.35602	0.38977	0.43844	0.39912	0.43110					
	0.42215	0.43317					AVRG		0.40997		7.30408
35 Carbon Tetrachloride	+++++	0.32829	0.33955	0.40446	0.37799	0.41121					
	0.40828	0.41552					AVRG		0.38361		9.43326
36 1,1-Dichloropropene	+++++	0.28308	0.29392	0.33809	0.31728	0.34044					
	0.33968	0.34165					AVRG		0.32202		7.63057
37 Isobutyl alcohol	+++++	0.23570	0.24244	0.26260	0.25523	0.27167					
	0.25696	0.27795					AVRG		0.25751		5.83032

5-300ppb

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
140 Cyclohexane	0.40249	0.45988	0.49554	0.54179	0.49456	0.53826					
	0.52518	0.53777					AVRG		0.49943		9.70164
38 Benzene	0.78400	0.84966	0.80412	0.88915	0.85669	0.89887					
	0.86895	0.89720					AVRG		0.85608		4.97911
39 1,2-Dichloroethane	0.21965	0.28686	0.28193	0.32520	0.30554	0.32145					
	0.30613	0.30466					AVRG		0.29393		11.39002
138 2,2,4-Trimethylpentane	1.02693	1.12489	1.17322	1.32119	1.29929	1.37555					
	1.29434	1.40376					AVRG		1.25240		10.46009
141 Methylcyclohexane	0.35966	0.41580	0.46591	0.52119	0.48633	0.52845					
	0.52286	0.53990					AVRG		0.48001		13.24892
41 Trichloroethene	0.19233	0.24561	0.26458	0.29835	0.28125	0.30553					
	0.30346	0.30885					AVRG		0.27499		14.59650
42 1,2-Dichloropropane	+++++	0.25836	0.26844	0.30603	0.29473	0.31667					
	0.30928	0.32504					AVRG		0.29694		8.38548

5.500ppb

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:18 rrenbarger

Compound	1.0000 Level 1 / 200.0000 Level 7	5.0000 Level 2 / 300.0000 Level 8	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
43 Dibromomethane	+++++ / 0.13668	0.12033 / 0.13590	0.11608	0.14346	0.13414	0.14371	AVRG		0.13290		8.09431
44 Methyl methacrylate	+++++ / 84592	1384 / 137841	2759	18270	38433	62330	LINR	0.11715	0.12014		0.99825
45 Bromodichloromethane	0.23747 / 0.35515	0.28403 / 0.37086	0.28054	0.35424	0.32231	0.36100	AVRG		0.32070		15.06504
46 2-Chloroethyl vinyl ether	+++++ / 158108	1743 / 262284	4782	31696	66869	111537	LINR	0.31945	0.12566		0.99730
145 1,4-Dioxane	+++++ / 0.00009	+++++ / 0.00009	+++++	+++++	+++++	+++++	AVRG		0.00009		3.69812
47 cis-1,3-Dichloropropene	0.33924 / 0.44593	0.36586 / 0.46007	0.38633	0.43291	0.42522	0.44824	AVRG		0.41297		10.61888
48 4-Methyl-2-Pentanone	0.28682 / 0.26119	0.23294 / 0.26604	0.22813	0.25458	0.24939	0.26073	AVRG		0.25498		7.33101

5-300ppb

5-300ppb

NTC

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1 / 200.0000 Level 7	5.0000 Level 2 / 300.0000 Level 8	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
50 Toluene	1.35834 1.36278	1.27104 1.37851	1.29511	1.35313	1.30399	1.36601	AVRG		1.33611		2.98482
51 trans-1,3-Dichloropropene	0.26485 0.38653	0.30260 0.40058	0.30975	0.36825	0.36713	0.38857	AVRG		0.34853		14.18414
52 Ethyl Methacrylate	0.18426 0.28445	0.22668 0.29130	0.23225	0.26850	0.27015	0.28430	AVRG		0.25524		14.64373
53 1,1,2-Trichloroethane	274 131063	2360 211231	5321	28871	60453	94822	LINR	0.04161	0.20069		0.99963
54 Tetrachloroethene	0.41191 0.51936	0.41520 0.50613	0.45385	0.44926	0.46103	0.46715	AVRG		0.46049		8.27913
55 1,3-Dichloropropane	0.37162 0.38769	0.36185 0.39681	0.36357	0.38533	0.37256	0.39426	AVRG		0.37921		3.58447
56 2-Hexanone	0.19073 0.18795	0.15323 0.18875	0.15508	0.17829	0.16867	0.18861	AVRG		0.17641		8.82134

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
57 Dibromochloromethane	0.30997	0.26162	0.28468	0.32392	0.32810	0.34343	AVRG		0.32073		10.77610
	0.34624	0.36786									
58 1,2-Dibromoethane	0.20733	0.22626	0.23995	0.25965	0.25409	0.26847	AVRG		0.24919		9.19340
	0.26490	0.27282									
60 Chlorobenzene	1.06422	0.95488	0.97201	1.05471	1.02711	1.08801	AVRG		1.04563		5.48530
	1.08733	1.11681									
61 1,1,1,2-Tetrachloroethane	0.37713	0.34730	0.35754	0.39871	0.38689	0.41604	AVRG		0.39251		8.04000
	0.41612	0.44033									
62 Ethylbenzene	0.49939	0.51466	0.53352	0.58758	0.56238	0.61102	AVRG		0.56726		8.30756
	0.60556	0.62397									
63 m&p-Xylene	0.64800	0.62828	0.64192	0.71097	0.67550	0.73062	AVRG		0.68652		6.35592
	0.71652	0.74037									
65 o-Xylene	0.60512	0.63668	0.64362	0.68784	0.66893	0.72759	AVRG		0.67702		6.84341
	0.71563	0.73072									

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
66 Styrene	1.05010	1.00029	1.01081	1.11002	1.06346	1.17046	AVRG		1.08955		6.25530
	1.14126	1.16999									
67 Bromoform	420	2156	4640	28431	65354	106178	LINR	0.13236	0.38705		0.99660
	147965	244114									
68 Isopropylbenzene	1.75028	1.65813	1.67711	1.87924	1.80149	1.93369	AVRG		1.82019		6.33792
	1.91752	1.94406									
69 trans-1,4-Dichloro-2-butene	0.07715	0.07943	0.08308	0.10701	0.10548	0.11184	AVRG		0.09795		15.47903
	0.10973	0.10984									
71 Bromobenzene	0.64611	0.58277	0.54252	0.59514	0.58407	0.63301	AVRG		0.60483		5.75930
	0.62151	0.63352									
72 1,1,2,2-Tetrachloroethane	0.54650	0.46644	0.43117	0.49811	0.48344	0.52216	AVRG		0.50081		7.78273
	0.52152	0.53718									
73 1,2,3-Trichloropropane	0.56955	0.44045	0.48453	0.51349	0.52683	0.55460	AVRG		0.52749		8.83337
	0.55464	0.57585									

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
74 n-Propylbenzene	3.45328	3.16802	3.35398	3.55838	3.35907	3.63015					
	3.46612	3.63458					AVRG		3.45295		4.58528
75 2-Chlorotoluene	2.07635	1.81299	1.89812	2.03282	1.89737	2.03605					
	2.00029	2.03487					AVRG		1.97361		4.68053
76 4-Chlorotoluene	0.85179	0.71747	0.75428	0.83927	0.77951	0.85587					
	0.84889	0.87044					AVRG		0.81469		6.92702
77 1,3,5-Trimethylbenzene	2.32318	2.23118	2.32665	2.55079	2.40622	2.61310					
	2.58800	2.61148					AVRG		2.45632		6.20593
78 tert-Butylbenzene	3.25818	2.88558	2.90270	3.27617	3.08345	3.31339					
	3.22875	3.40316					AVRG		3.16892		6.04948
79 1,2,4-Trimethylbenzene	2.64646	2.47576	2.44575	2.67742	2.46200	2.67732					
	2.59518	2.65762					AVRG		2.57969		3.94359
80 sec-Butylbenzene	3.38468	3.19661	3.29896	3.63261	3.34800	3.63063					
	3.56479	3.65459					AVRG		3.46386		5.13144

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
81 1,3-Dichlorobenzene	1.70809	1.50139	1.46542	1.57835	1.47390	1.59197					
	1.54577	1.60792					AVRG		1.55910		5.17529
83 p-Isopropyltoluene	3.07377	2.95475	3.07731	3.36110	3.12940	3.37276					
	3.28936	3.38919					AVRG		3.20595		5.21166
84 1,4-Dichlorobenzene	1.90150	1.55575	1.48218	1.62945	1.50593	1.61720					
	1.58852	1.61630					AVRG		1.61210		7.98442
85 1,2-Dichlorobenzene	1.67041	1.35876	1.33285	1.46046	1.35703	1.45581					
	1.42731	1.47292					AVRG		1.44194		7.41109
86 n-Butylbenzene	2.37321	2.42546	2.52380	2.83994	2.56630	2.78381					
	2.71855	2.70869					AVRG		2.61747		6.51599
87 1,2-Dibromo-3-chloropropane	+++++	0.07143	0.06392	0.08068	0.08131	0.08706					
	0.08873	0.09278					AVRG		0.08084		12.56011
88 1,2,4-Trichlorobenzene	0.84786	0.88937	0.86019	1.05796	0.95858	0.94529					
	1.05197	1.04983					AVRG		0.95763		9.15681

5-30ppb

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Compound	1.0000 Level 1	5.0000 Level 2	10.0000 Level 3	50.0000 Level 4	100.0000 Level 5	150.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	200.0000 Level 7	300.0000 Level 8									
89 Hexachlorobutadiene	0.56280	0.59077	0.61748	0.67740	0.60888	0.65212	AVRG		0.63019		6.60847
	0.65736	0.67471									
90 Naphthalene	1.57259	1.57101	1.55544	1.96939	1.85463	1.95961	AVRG		1.81676		11.79881
	2.00473	2.04670									
91 1,2,3-Trichlorobenzene	0.75340	0.75815	0.76033	0.92917	0.84996	0.94090	AVRG		0.86110		10.66690
	0.93574	0.96115									
92 2,methyl-naphthalene	+++++	3788	10009	102849	229078	389733	LINR	0.21353	1.45092		0.99650
	548569	897204									
$ 32 Dibromofluoromethane (S)	0.25705	0.25785	0.25535	0.25814	0.24741	0.24650	AVRG		0.24874		4.14369
	0.23568	0.23194									
$ 49 Toluene-d8	1.20207	1.21348	1.19800	1.18254	1.18555	1.16552	AVRG		1.18897		1.26735
	1.18703	1.17761									
$ 70 4-Bromofluorobenzene	0.45514	0.46468	0.46956	0.46339	0.47202	0.46902	AVRG		0.46398		1.41140
	0.46409	0.45398									

5-300ppb

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-JUL-2010 13:42
End Cal Date : 07-JUL-2010 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Last Edit : 08-Jul-2010 11:07 50MSV5.i

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B00BFB.D

Date : 07-JUL-2010 13:05

Page 1

Client ID: bfb050

Instrument: 50MSV5.i

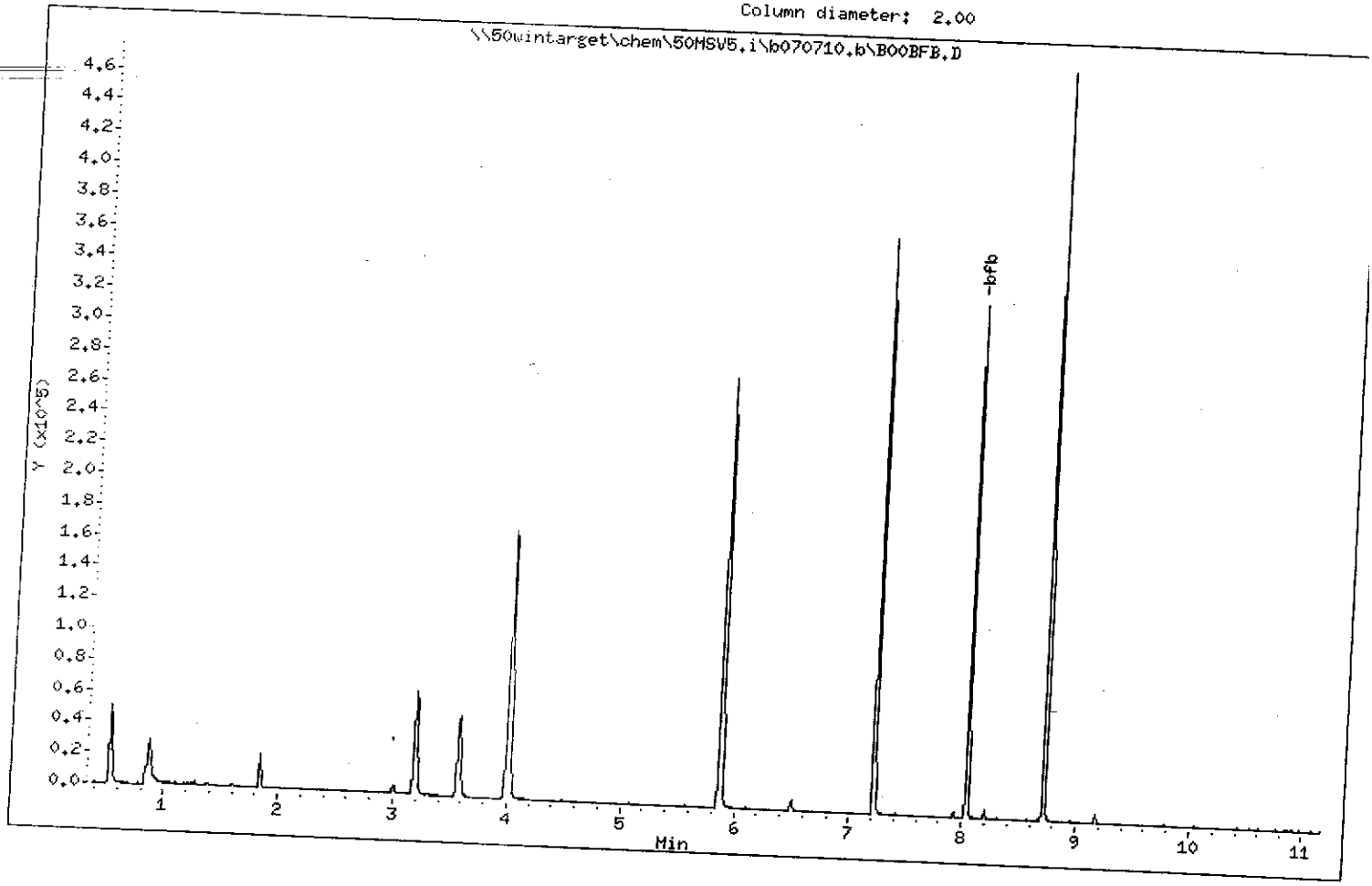
Sample Info: bfb 34B-199

Volume Injected (uL): 1.0

Operator: rsr

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B00BFB.D

Date : 07-JUL-2010 13:05

Client ID: bfb050

Instrument: 50MSV5.i

Sample Info: bfb 34B-199

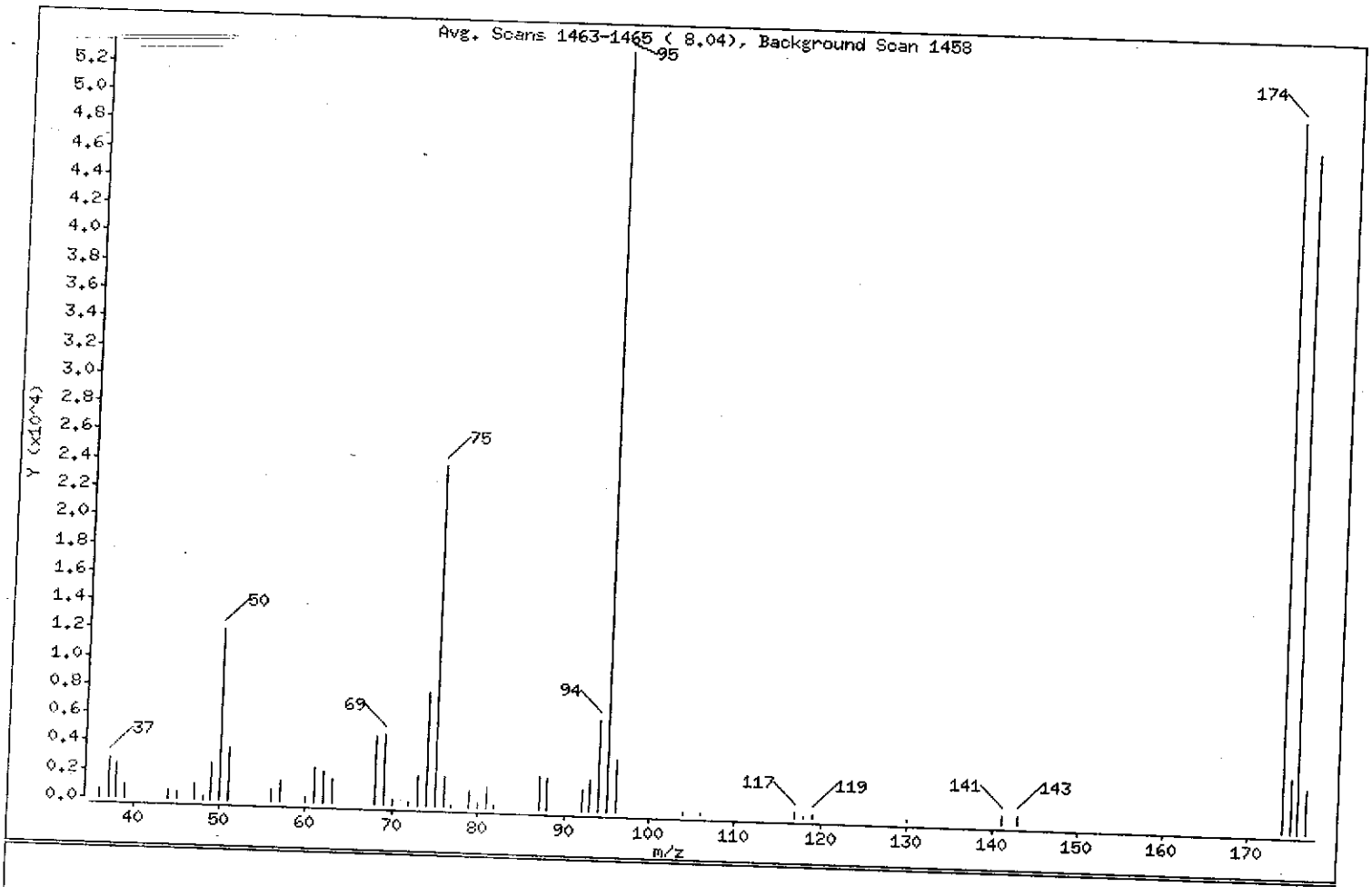
Volume Injected (uL): 1.0

Operator: rsr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.60
75	30.00 - 60.00% of mass 95	44.86
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	93.25
175	5.00 - 9.00% of mass 174	7.09 (7.61)
176	95.00 - 101.00% of mass 174	89.16 (95.62)
177	5.00 - 9.00% of mass 176	5.79 (6.49)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B00BFB.D

Date : 07-JUL-2010 13:05

Client ID: bfb050

Instrument: 50MSV5.i

Sample Info: bfb 34B-199

Volume Injected (uL): 1.0

Operator: rsr

Column phase:

Column diameter: 2.00

Data File: B00BFB.D

Spectrum: Avg. Scans 1463-1465 (8.04), Background Scan 1458

Location of Maximum: 95.00

Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	593	60.00	399	79.00	1253	117.00	379
37.00	2879	61.00	2493	80.00	417	118.00	108
38.00	2458	62.00	2258	81.00	1459	119.00	277
39.00	936	63.00	1686	82.00	239	130.00	110
44.00	603	68.00	4834	87.00	2318	141.00	658
45.00	545	69.00	4914	88.00	2156	143.00	651
47.00	1091	70.00	329	92.00	1458	174.00	49840
48.00	261	72.00	227	93.00	2249	175.00	3791
49.00	2626	73.00	2146	94.00	6368	176.00	47656
50.00	12077	74.00	7996	95.00	53448	177.00	3095
51.00	3747	75.00	23976	96.00	3686		
56.00	910	76.00	2067	104.00	134		
57.00	1495	77.00	126	106.00	103		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B01.D
Lab Smp Id: 1ppb
Client Smp ID: 1ppb
Inj Date : 07-JUL-2010 13:42
Operator : rsr
Inst ID: 50MSV5.i
Smp Info : 1ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51
Cal File: B08.D
Als bottle: 4
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	1957	2.00000	1.46 (M)
2 Chloromethane	50	1.033	1.033	(0.258)	2944	2.00000	1.52 (M)
3 Vinyl Chloride	62	1.059	1.059	(0.264)	1807	2.00000	1.45 (M)
4 Bromomethane	94	1.200	1.200	(0.300)	760	2.00000	1.05 (M)
139 Methyl Acetate	43	1.771	1.776	(0.442)	729	1.00000	1.15 (M)
5 Chloroethane	64	1.242	1.242	(0.310)	966	2.00000	1.56 (M)
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	2312	2.00000	(M)
8 Acrolein	56	1.535	1.535	(0.383)	2632	40.0000	33.1 (M)
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	385	1.00000	0.537 (QM)
10 1,1,2trichlorotrifluoroethane	101	1.588	1.587	(0.396)	470	1.00000	0.558 (M)
11 Acetone	43	1.608	1.608	(0.401)	2433	5.00000	(M)
12 Iodomethane	142	1.676	1.676	(0.418)	367	2.00000	1.33 (QM)
13 Carbon Disulfide	76	1.713	1.713	(0.427)	3679	2.00000	1.72 (M)
142 Acetonitrile	39	1.771	1.770	(0.442)	1667	20.0000	16.7 (M)
14 allyl chloride	41	1.771	1.770	(0.442)	2731	2.00000	1.66 (M)
15 Methylene Chloride	84	1.839	1.838	(0.459)	4455	1.00000	(M)
16 Acrylonitrile	53	1.980	1.974	(0.494)	4158	20.0000	21.7
18 1,2-Dichloroethene (trans)	96	1.995	1.995	(0.498)	574	1.00000	0.747 (M)
19 Methyl-tert-butyl ether	73	1.995	1.995	(0.498)	2794	2.00000	1.85 (M)
20 n-Hexane	57	2.168	2.168	(0.541)	1382	1.00000	0.875 (M)
21 1,1-Dichloroethane	63	2.273	2.273	(0.567)	1288	1.00000	0.805 (M)
23 Vinyl Acetate	43	2.304	2.304	(0.575)	5402	4.00000	3.85 (M)
143 Chloroprene	53	2.341	2.341	(0.584)	1233	1.00000	0.740 (M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	806	1.00000	0.696 (M)
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	393	1.00000	0.454 (QM)
	26 2-Butanone	43	2.749	2.743	(0.686)	1889	5.00000	6.53 (M)
	144 Methacrylonitrile	41	2.644	2.942	(0.660)	0	5.00000	(TQM)
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	666	1.00000	0.716 (M)
	29 Bromochloromethane	49	2.942	2.947	(0.734)	617	1.00000	0.733 (QM)
	30 Tetrahydrofuran	42	3.000	3.000	(0.748)	3622	1.00000	4.82 (M)
	31 Chloroform	83	3.026	3.026	(0.755)	944	1.00000	0.667 (M)
$	32 Dibromofluoromethane (S)	113	3.193	3.193	(0.796)	44705	50.0000	51.7 (M)
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.802)	841	1.00000	0.590 (QM)
	35 Carbon Tetrachloride	117	3.397	3.397	(0.847)	694	1.00000	0.520 (QM)
	36 1,1-Dichloropropene	75	3.397	3.397	(0.847)	575	1.00000	0.513 (QM)
	37 Isobutyl alcohol	43	3.497	3.763	(0.872)	0	1.00000	(TQM)
	140 Cyclohexane	56	3.277	3.272	(0.817)	1400	1.00000	0.806 (M)
	38 Benzene	78	3.638	3.643	(0.907)	2727	1.00000	0.916 (M)
	39 1,2-Dichloroethane	62	3.669	3.669	(0.915)	764	1.00000	0.747 (QM)
	138 2,2,4-Trimethylpentane	57	3.763	3.758	(0.939)	3572	1.00000	0.820 (M)
	141 Methylcyclohexane	55	4.679	4.684	(1.167)	1251	1.00000	0.749 (QM)
*	40 Fluorobenzene	96	4.009	4.009	(1.000)	173916	50.0000	
	41 Trichloroethene	95	4.459	4.464	(1.112)	669	1.00000	0.699 (M)
	42 1,2-Dichloropropane	63	4.736	4.736	(1.181)	623	1.00000	0.603 (QM)
	45 Bromodichloromethane	83	5.066	5.071	(1.263)	826	1.00000	0.740 (M)
	47 cis-1,3-Dichloropropene	75	5.583	5.589	(0.774)	985	1.00000	0.821 (QM)
	48 4-Methyl-2-Pentanone	43	5.793	5.793	(0.803)	4164	5.00000	5.62 (M)
$	49 Toluene-d8	98	5.871	5.871	(0.814)	174513	50.0000	50.6
	50 Toluene	91	5.944	5.944	(0.824)	3944	1.00000	1.02
	51 trans-1,3-Dichloropropene	75	6.216	6.211	(0.862)	769	1.00000	0.760 (QM)
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	535	1.00000	0.722 (M)
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	274	1.00000	2.55 (QM)
	54 Tetrachloroethene	166	6.504	6.509	(0.901)	1196	1.00000	0.894 (QM)
	55 1,3-Dichloropropane	76	6.551	6.551	(0.908)	1079	1.00000	0.980 (QM)
	56 2-Hexanone	43	6.666	6.666	(0.924)	2769	5.00000	5.40 (M)
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	900	1.00000	0.966 (M)
	58 1,2-Dibromoethane	107	6.833	6.833	(0.947)	602	1.00000	0.832 (M)
*	59 Chlorobenzene-d5	117	7.215	7.215	(1.000)	145177	50.0000	(M)
	60 Chlorobenzene	112	7.236	7.236	(1.003)	3090	1.00000	1.02 (QM)
	61 1,1,1,2-Tetrachloroethane	131	7.309	7.309	(1.013)	1095	1.00000	0.961 (M)
	62 Ethylbenzene	106	7.336	7.335	(1.017)	1450	1.00000	0.880 (Q)
	63 m&p-Xylene	106	7.419	7.424	(1.028)	3763	2.00000	1.89
	65 o-Xylene	106	7.696	7.696	(1.067)	1757	1.00000	0.894 (QM)
	66 Styrene	104	7.707	7.707	(1.068)	3049	1.00000	0.964
	67 Bromoform	173	7.827	7.827	(0.898)	420	1.00000	7.23 (M)
	68 Isopropylbenzene	105	7.942	7.942	(1.101)	5082	1.00000	0.962
	69 trans-1,4-Dichloro-2-butene	53	8.172	8.172	(1.133)	224	1.00000	0.788 (QM)
$	70 4-Bromofluorobenzene	95	8.036	8.036	(1.114)	66076	50.0000	49.0
	71 Bromobenzene	77	8.125	8.125	(1.126)	1876	1.00000	1.07
	72 1,1,2,2-Tetrachloroethane	83	8.136	8.141	(0.933)	972	1.00000	1.09 (M)
	73 1,2,3-Trichloropropane	75	8.157	8.162	(0.936)	1013	1.00000	1.08 (QM)
	74 n-Propylbenzene	91	8.204	8.198	(0.941)	6142	1.00000	1.00
	75 2-Chlorotoluene	91	8.246	8.246	(0.946)	3693	1.00000	1.05
	76 4-Chlorotoluene	126	8.314	8.314	(0.954)	1515	1.00000	1.04
	77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	4132	1.00000	0.946
	78 tert-Butylbenzene	119	8.497	8.497	(0.975)	5795	1.00000	1.03
	79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	4707	1.00000	1.02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
80 sec-Butylbenzene	105	8.617	8.617	(0.989)	6020	1.00000	0.977
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	3038	1.00000	1.10
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	88930	50.0000	(Q)
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	5467	1.00000	0.959
84 1,4-Dichlorobenzene	146	8.727	8.727	(1.001)	3382	1.00000	1.18
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	2971	1.00000	1.16
86 n-Butylbenzene	91	8.920	8.920	(1.023)	4221	1.00000	0.907
88 1,2,4-Trichlorobenzene	180	9.757	9.752	(1.119)	1508	1.00000	0.885 (M)
89 Hexachlorobutadiene	225	9.836	9.830	(1.128)	1001	1.00000	0.893 (M)
90 Naphthalene	128	9.883	9.877	(1.134)	2797	1.00000	0.866 (M)
91 1,2,3-Trichlorobenzene	180	10.008	10.003	(1.148)	1340	1.00000	0.875 (M)

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B01.D
Lab Smp Id: 1ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: 1ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	173916	2.95
59 Chlorobenzene-d5	150139	75070	300278	145177	-3.30
82 1,4-Dichlorobenze	91936	45968	183872	88930	-3.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.00
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	1.46	
74-87-3	Chloromethane	1.52	
75-01-4	Vinyl Chloride	1.45	
74-83-9	Bromomethane	1.05	
79-20-9	Methyl Acetate	1.15	
75-00-3	Chloroethane	1.56	
75-69-4	Trichlorofluoromethane	0.000	
107-02-8	Acrolein	33.1	
75-35-4	1,1-Dichloroethene	0.537	
76-13-1	1,1,2trichlorotrifluoroethan	0.558	
67-64-1	Acetone	0.000	
	Iodomethane	1.33	
75-15-0	Carbon Disulfide	1.72	
75-05-8	Acetonitrile	16.7	
107-05-1	allyl chloride	1.66	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	21.7	
156-60-5	1,2-Dichloroethene (trans)	0.747	
1634-04-4	Methyl-tert-butyl ether	1.85	
	n-Hexane	0.875	
75-34-3	1,1-Dichloroethane	0.805	
108-05-4	Vinyl Acetate	3.85	
126-99-8	Chloroprene	0.740	
594-20-7	2,2-Dichloropropane	0.696	
156-59-2	1,2-Dichloroethene (cis)	0.454	
78-93-3	2-Butanone	6.53	
126-98-7	Methacrylonitrile	0.000	
354-23-4	1,2-dichlorotrifluoroethane	0.716	
74-97-5	Bromochloromethane	0.733	
	Tetrahydrofuran	4.82	
67-66-3	Chloroform	0.667	
71-55-6	1,1,1-Trichloroethane	0.590	
56-23-5	Carbon Tetrachloride	0.520	
563-58-6	1,1-Dichloropropene	0.513	
78-83-1	Isobutyl alcohol	0.000	
110-82-7	Cyclohexane	0.806	
71-43-2	Benzene	0.916	
107-06-2	1,2-Dichloroethane	0.747	
540-84-1	2,2,4-Trimethylpentane	0.820	
108-82-7	Methylcyclohexane	0.749	
79-01-6	Trichloroethene	0.699	
78-87-5	1,2-Dichloropropane	0.603	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-27-4	Bromodichloromethane	0.740	
10061-01-5	cis-1,3-Dichloropropene	0.821	
108-10-1	4-Methyl-2-Pentanone	5.62	
108-88-3	Toluene	1.02	
10061-02-6	trans-1,3-Dichloropropene	0.760	
	Ethyl Methacrylate	0.722	
79-00-5	1,1,2-Trichloroethane	2.55	
127-18-4	Tetrachloroethene	0.894	
142-28-9	1,3-Dichloropropane	0.980	
591-78-6	2-Hexanone	5.40	
124-48-1	Dibromochloromethane	0.966	
106-93-4	1,2-Dibromoethane	0.832	
108-90-7	Chlorobenzene	1.02	
630-20-6	1,1,1,2-Tetrachloroethane	0.961	
100-41-4	Ethylbenzene	0.880	
7816-60-0	m&p-Xylene	1.89	
95-47-6	o-Xylene	0.894	
100-42-5	Styrene	0.964	
75-25-2	Bromoform	7.23	
98-82-8	Isopropylbenzene	0.962	
	trans-1,4-Dichloro-2-butene	0.788	
108-86-1	Bromobenzene	1.07	
79-34-5	1,1,2,2-Tetrachloroethane	1.09	
96-18-4	1,2,3-Trichloropropane	1.08	
103-65-1	n-Propylbenzene	1.00	
95-49-8	2-Chlorotoluene	1.05	
106-43-4	4-Chlorotoluene	1.04	
108-67-8	1,3,5-Trimethylbenzene	0.946	
98-06-6	tert-Butylbenzene	1.03	
95-63-6	1,2,4-Trimethylbenzene	1.02	
135-98-8	sec-Butylbenzene	0.977	
541-73-1	1,3-Dichlorobenzene	1.10	
99-87-6	p-Isopropyltoluene	0.959	
106-46-7	1,4-Dichlorobenzene	1.18	
95-50-1	1,2-Dichlorobenzene	1.16	
104-51-8	n-Butylbenzene	0.907	
120-82-1	1,2,4-Trichlorobenzene	0.885	
87-68-3	Hexachlorobutadiene	0.893	
91-20-3	Naphthalene	0.866	
87-61-6	1,2,3-Trichlorobenzene	0.875	
1868-53-7	Dibromofluoromethane (S)	51.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

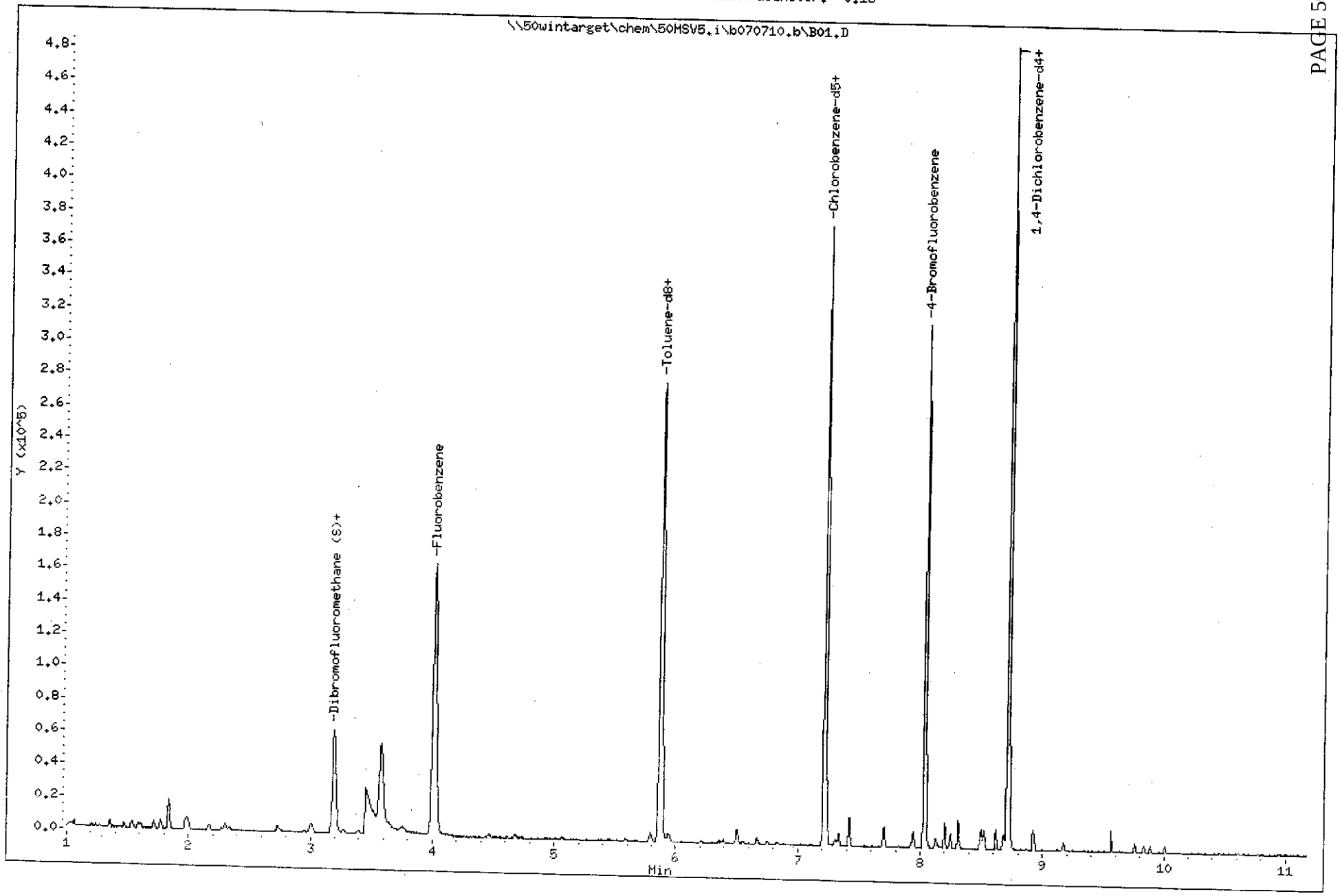
Client SDG: b070710.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
2037-26-5	Toluene-d8	50.6	
460-00-4	4-Bromofluorobenzene	49.0	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B01.D
Date : 07-JUL-2010 13:42
Client ID: 1ppb
Sample Info: 1ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B01.D

Date : 07-JUL-2010 13:42

Client ID: 1ppb

Instrument: 50MSV5.i

Sample Info: 1ppb

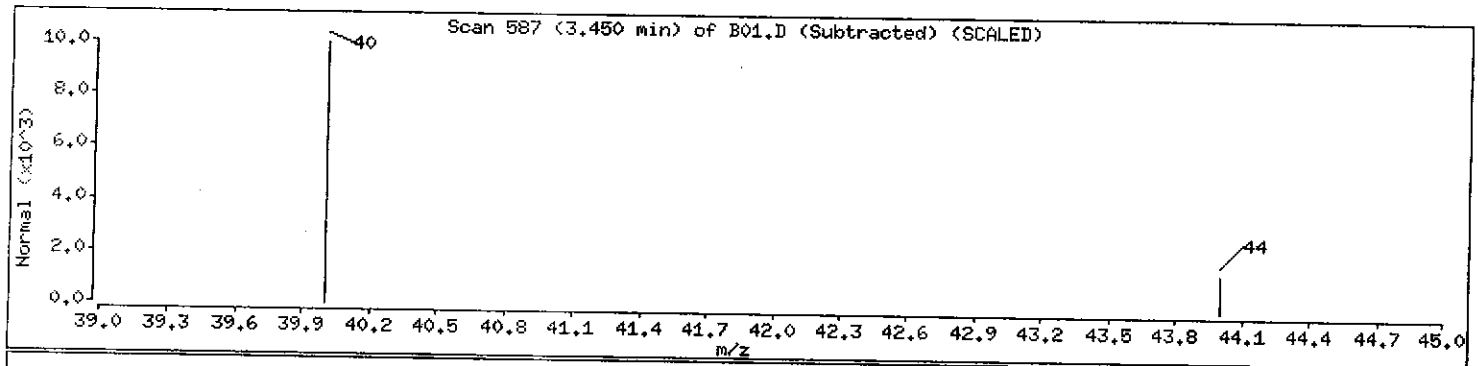
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B02.D
Lab Smp Id: 5ppb
Client Smp ID: 5ppb
Inj Date : 07-JUL-2010 14:20
Operator : rsr
Inst ID: 50MSV5.i
Smp Info : 5ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51
Cal File: B08.D
Als bottle: 6
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	5942	5.00000	4.55 (M)
2 Chloromethane	50	1.033	1.033	(0.258)	8388	5.00000	4.45
3 Vinyl Chloride	62	1.059	1.059	(0.264)	5453	5.00000	4.50
4 Bromomethane	94	1.200	1.200	(0.299)	2703	5.00000	3.83
139 Methyl Acetate	43	1.776	1.776	(0.443)	3072	5.00000	4.98 (M)
5 Chloroethane	64	1.242	1.242	(0.310)	2860	5.00000	4.73 (M)
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	7133	5.00000	1.09
7 Diethyl ether	74	1.472	1.472	(0.367)	1259	5.00000	4.50
8 Acrolein	56	1.535	1.535	(0.383)	7809	100.000	101
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	3128	5.00000	4.48 (Q)
10 1,1,2trichlorotrifluoroethane	101	1.582	1.587	(0.395)	3732	5.00000	4.55
11 Acetone	43	1.608	1.608	(0.401)	4781	25.0000	0.817
12 Iodomethane	142	1.676	1.676	(0.418)	6099	10.0000	5.39 (Q)
13 Carbon Disulfide	76	1.713	1.713	(0.427)	19145	10.0000	9.20
142 Acetonitrile	39	1.770	1.770	(0.442)	9492	100.000	97.5
14 allyl chloride	41	1.770	1.770	(0.442)	15526	10.0000	9.71
15 Methylene Chloride	84	1.838	1.838	(0.459)	7630	5.00000	4.21
16 Acrylonitrile	53	1.974	1.974	(0.493)	18849	100.000	101
17 tert-Butyl Alcohol	59	1.886	1.880	(0.470)	391	10.0000	9.69 (QM)
18 1,2-Dichloroethene (trans)	96	2.001	1.995	(0.499)	3500	5.00000	4.67
19 Methyl-tert-butyl ether	73	1.995	1.995	(0.498)	14144	10.0000	9.62
20 n-Hexane	57	2.168	2.168	(0.541)	7090	5.00000	4.61 (M)
21 1,1-Dichloroethane	63	2.273	2.273	(0.567)	7515	5.00000	4.82 (M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.304	2.304	(0.575)	27427	20.0000	20.0
	143 Chloroprene	53	2.341	2.341	(0.584)	7584	5.00000	4.68 (M)
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	5254	5.00000	4.65 (M)
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	3951	5.00000	4.69 (Q)
	26 2-Butanone	43	2.749	2.743	(0.686)	7009	25.0000	24.9 (M)
	144 Methacrylonitrile	41	2.947	2.942	(0.735)	1971	25.0000	22.3 (TQM)
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	4270	5.00000	4.71
	29 Bromochloromethane	49	2.947	2.947	(0.735)	4203	5.00000	5.13 (Q)
	30 Tetrahydrofuran	42	3.005	3.000	(0.750)	4283	5.00000	5.85 (M)
	31 Chloroform	83	3.031	3.026	(0.756)	6760	5.00000	4.90
$	32 Dibromofluoromethane (S)	113	3.188	3.193	(0.795)	43695	50.0000	51.8
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.802)	6033	5.00000	4.34 (Q)
	35 Carbon Tetrachloride	117	3.392	3.397	(0.846)	5563	5.00000	4.28 (Q)
	36 1,1-Dichloropropene	75	3.397	3.397	(0.847)	4797	5.00000	4.40 (Q)
	37 Isobutyl alcohol	43	3.758	3.763	(0.937)	3994	5.00000	4.58 (TQM)
	140 Cyclohexane	56	3.272	3.272	(0.816)	7793	5.00000	4.60
	38 Benzene	78	3.643	3.643	(0.909)	14398	5.00000	4.96
	39 1,2-Dichloroethane	62	3.674	3.669	(0.917)	4861	5.00000	4.88 (M)
	138 2,2,4-Trimethylpentane	57	3.753	3.758	(0.936)	19062	5.00000	4.49
	141 Methylcyclohexane	55	4.678	4.684	(1.167)	7046	5.00000	4.33 (QM)
*	40 Fluorobenzene	96	4.009	4.009	(1.000)	169456	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.113)	4162	5.00000	4.46
	42 1,2-Dichloropropane	63	4.736	4.736	(1.181)	4378	5.00000	4.35 (QM)
	43 Dibromomethane	93	4.867	4.867	(1.214)	2039	5.00000	4.53
	44 Methyl methacrylate	69	4.930	4.930	(1.230)	1384	5.00000	3.96 (QM)
	45 Bromodichloromethane	83	5.071	5.071	(1.265)	4813	5.00000	4.43 (M)
	46 2-Chloroethyl vinyl ether	63	5.453	5.458	(0.756)	1743	10.0000	20.8 (M)
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.775)	5205	5.00000	4.43
	48 4-Methyl-2-Pentanone	43	5.793	5.793	(0.803)	16570	25.0000	22.8
$	49 Toluene-d8	98	5.871	5.871	(0.814)	172640	50.0000	51.0
	50 Toluene	91	5.939	5.944	(0.823)	18083	5.00000	4.76
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.861)	4305	5.00000	4.34
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	3225	5.00000	4.44 (M)
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	2360	5.00000	6.21 (Q)
	54 Tetrachloroethene	166	6.509	6.509	(0.902)	5907	5.00000	4.51 (Q)
	55 1,3-Dichloropropane	76	6.551	6.551	(0.908)	5148	5.00000	4.77 (Q)
	56 2-Hexanone	43	6.666	6.666	(0.924)	10900	25.0000	21.7 (M)
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	3722	5.00000	4.08
	58 1,2-Dibromoethane	107	6.833	6.833	(0.947)	3219	5.00000	4.54
*	59 Chlorobenzene-d5	117	7.215	7.215	(1.000)	142269	50.0000	
	60 Chlorobenzene	112	7.236	7.236	(1.003)	13585	5.00000	4.57
	61 1,1,1,2-Tetrachloroethane	131	7.309	7.309	(1.013)	4941	5.00000	4.42
	62 Ethylbenzene	106	7.330	7.335	(1.016)	7322	5.00000	4.54
	63 m&p-Xylene	106	7.424	7.424	(1.029)	17877	10.0000	9.15
	65 o-Xylene	106	7.696	7.696	(1.067)	9058	5.00000	4.70
	66 Styrene	104	7.707	7.707	(1.068)	14231	5.00000	4.59
	67 Bromoform	173	7.822	7.827	(0.897)	2156	5.00000	9.76 (M)
	68 Isopropylbenzene	105	7.942	7.942	(1.101)	23590	5.00000	4.55
	69 trans-1,4-Dichloro-2-butene	53	8.172	8.172	(1.133)	1130	5.00000	4.05 (QM)
$	70 4-Bromofluorobenzene	95	8.036	8.036	(1.114)	66109	50.0000	50.1
	71 Bromobenzene	77	8.125	8.125	(1.126)	8291	5.00000	4.82
	72 1,1,2,2 Tetrachloroethane	83	8.141	8.141	(0.934)	4127	5.00000	4.66 (M)
	73 1,2,3-Trichloropropane	75	8.162	8.162	(0.936)	3897	5.00000	4.17 (Q)
	74 n-Propylbenzene	91	8.198	8.198	(0.941)	28030	5.00000	4.59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
75 2-Chlorotoluene	91	8.245	8.246	(0.946)	16041	5.00000	4.59
76 4-Chlorotoluene	126	8.313	8.314	(0.954)	6348	5.00000	4.40
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	19741	5.00000	4.54
78 tert-Butylbenzene	119	8.497	8.497	(0.975)	25531	5.00000	4.55
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	21905	5.00000	4.80
80 sec-Butylbenzene	105	8.617	8.617	(0.989)	28283	5.00000	4.61
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	13284	5.00000	4.81
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	88478	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	26143	5.00000	4.61
84 1,4-Dichlorobenzene	146	8.727	8.727	(1.001)	13765	5.00000	4.82
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	12022	5.00000	4.71
86 n-Butylbenzene	91	8.920	8.920	(1.023)	21460	5.00000	4.63
87 1,2-Dibromo-3-chloropropane	155	9.344	9.339	(1.072)	632	5.00000	4.42(M)
88 1,2,4-Trichlorobenzene	180	9.757	9.752	(1.119)	7869	5.00000	4.64
89 Hexachlorobutadiene	225	9.835	9.830	(1.128)	5227	5.00000	4.69
90 Naphthalene	128	9.888	9.877	(1.134)	13900	5.00000	4.32
91 1,2,3-Trichlorobenzene	180	10.008	10.003	(1.148)	6708	5.00000	4.40
92 2,methyl-naphthalene	142	10.495	10.489	(1.204)	3788	5.00000	12.2(M)

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B02.D
Lab Smp Id: 5ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: 5ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	169456	0.31
59 Chlorobenzene-d5	150139	75070	300278	142269	-5.24
82 1,4-Dichlorobenze	91936	45968	183872	88478	-3.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	-0.00
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	-0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	-0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	4.55	
74-87-3	Chloromethane	4.45	
75-01-4	Vinyl Chloride	4.50	
74-83-9	Bromomethane	3.83	
79-20-9	Methyl Acetate	4.98	
75-00-3	Chloroethane	4.73	
75-69-4	Trichlorofluoromethane	1.09	
60-29-7	Diethyl ether	4.50	
107-02-8	Acrolein	101	
75-35-4	1,1-Dichloroethene	4.48	
76-13-1	1,1,2trichlorotrifluoroethan	4.55	
67-64-1	Acetone	0.817	
	Iodomethane	5.39	
75-15-0	Carbon Disulfide	9.20	
75-05-8	Acetonitrile	97.5	
107-05-1	allyl chloride	9.71	
75-09-2	Methylene Chloride	4.21	
107-13-1	Acrylonitrile	101	
75-65-0	tert-Butyl Alcohol	9.69	
156-60-5	1,2-Dichloroethene (trans)	4.67	
1634-04-4	Methyl-tert-butyl ether	9.62	
	n-Hexane	4.61	
75-34-3	1,1-Dichloroethane	4.82	
108-05-4	Vinyl Acetate	20.0	
126-99-8	Chloroprene	4.68	
594-20-7	2,2-Dichloropropane	4.65	
156-59-2	1,2-Dichloroethene (cis)	4.69	
78-93-3	2-Butanone	24.9	
126-98-7	Methacrylonitrile	22.3	
354-23-4	1,2-dichlorotrifluoroethane	4.71	
74-97-5	Bromochloromethane	5.13	
	Tetrahydrofuran	5.85	
67-66-3	Chloroform	4.90	
71-55-6	1,1,1-Trichloroethane	4.34	
56-23-5	Carbon Tetrachloride	4.28	
563-58-6	1,1-Dichloropropene	4.40	
78-83-1	Isobutyl alcohol	4.58	
110-82-7	Cyclohexane	4.60	
71-43-2	Benzene	4.96	
107-06-2	1,2-Dichloroethane	4.88	
540-84-1	2,2,4-Trimethylpentane	4.49	
108-82-7	Methylcyclohexane	4.33	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	4.46	
78-87-5	1,2-Dichloropropane	4.35	
74-95-3	Dibromomethane	4.53	
80-62-6	Methyl methacrylate	3.96	
75-27-4	Bromodichloromethane	4.43	
110-75-8	2-Chloroethyl vinyl ether	20.8	
10061-01-5	cis-1,3-Dichloropropene	4.43	
108-10-1	4-Methyl-2-Pentanone	22.8	
108-88-3	Toluene	4.76	
10061-02-6	trans-1,3-Dichloropropene	4.34	
	Ethyl Methacrylate	4.44	
79-00-5	1,1,2-Trichloroethane	6.21	
127-18-4	Tetrachloroethene	4.51	
142-28-9	1,3-Dichloropropane	4.77	
591-78-6	2-Hexanone	21.7	
124-48-1	Dibromochloromethane	4.08	
106-93-4	1,2-Dibromoethane	4.54	
108-90-7	Chlorobenzene	4.57	
630-20-6	1,1,1,2-Tetrachloroethane	4.42	
100-41-4	Ethylbenzene	4.54	
7816-60-0	m&p-Xylene	9.15	
95-47-6	o-Xylene	4.70	
100-42-5	Styrene	4.59	
75-25-2	Bromoform	9.76	
98-82-8	Isopropylbenzene	4.55	
	trans-1,4-Dichloro-2-butene	4.05	
108-86-1	Bromobenzene	4.82	
79-34-5	1,1,2,2-Tetrachloroethane	4.66	
96-18-4	1,2,3-Trichloropropane	4.17	
103-65-1	n-Propylbenzene	4.59	
95-49-8	2-Chlorotoluene	4.59	
106-43-4	4-Chlorotoluene	4.40	
108-67-8	1,3,5-Trimethylbenzene	4.54	
98-06-6	tert-Butylbenzene	4.55	
95-63-6	1,2,4-Trimethylbenzene	4.80	
135-98-8	sec-Butylbenzene	4.61	
541-73-1	1,3-Dichlorobenzene	4.81	
99-87-6	p-Isopropyltoluene	4.61	
106-46-7	1,4-Dichlorobenzene	4.82	
95-50-1	1,2-Dichlorobenzene	4.71	
104-51-8	n-Butylbenzene	4.63	
96-12-8	1,2-Dibromo-3-chloropropane	4.42	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

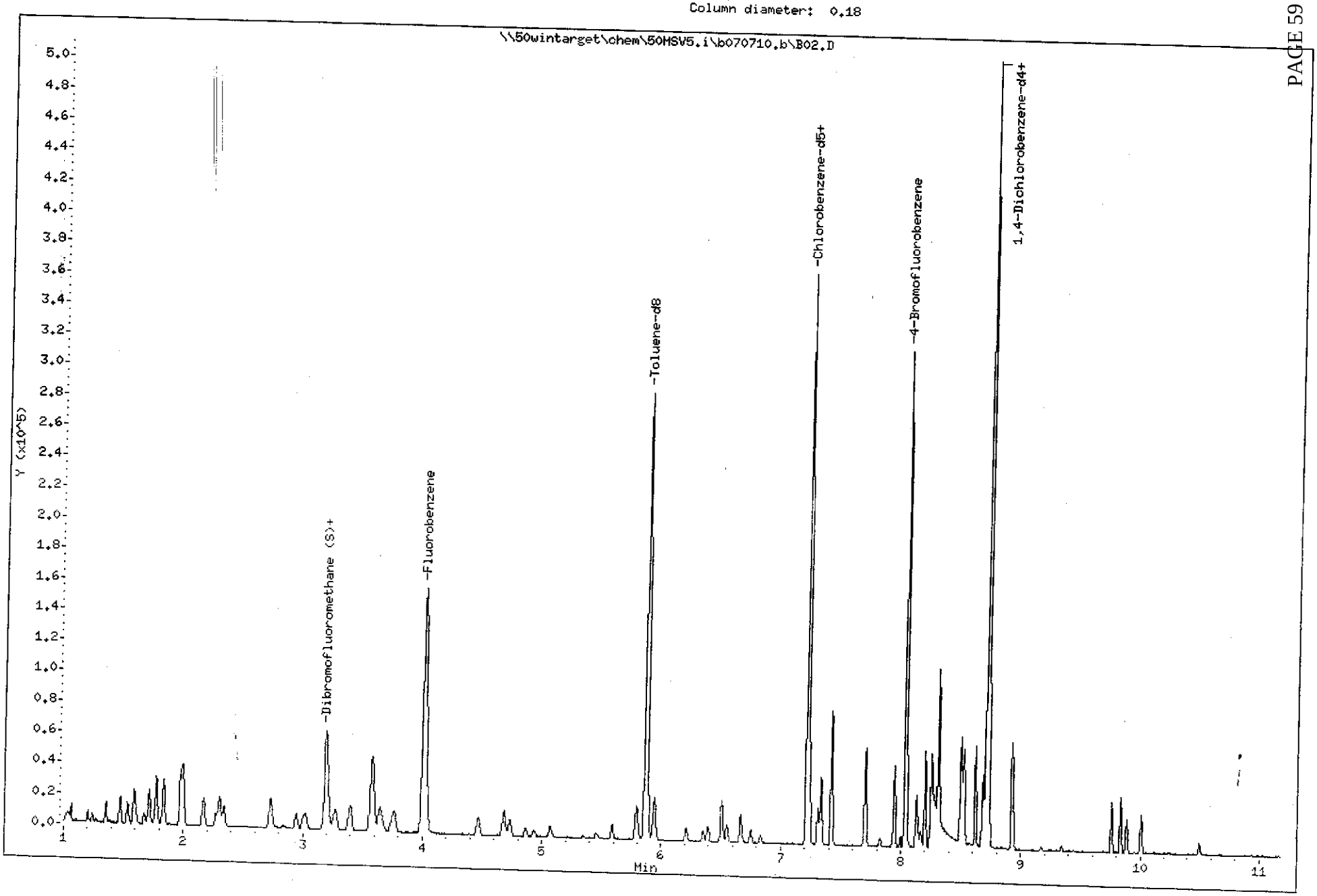
Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	4.64	
87-68-3	Hexachlorobutadiene	4.69	
91-20-3	Naphthalene	4.32	
87-61-6	1,2,3-Trichlorobenzene	4.40	
	2,methyl-naphthalene	12.2	
1868-53-7	Dibromofluoromethane (S)	51.8	
2037-26-5	Toluene-d8	51.0	
460-00-4	4-Bromofluorobenzene	50.1	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B02.D
Date : 07-JUL-2010 14:20
Client ID: 5ppb
Sample Info: 5ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B02.D

Date : 07-JUL-2010 14:20

Client ID: 5ppb

Instrument: 50MSV5.i

Sample Info: 5ppb

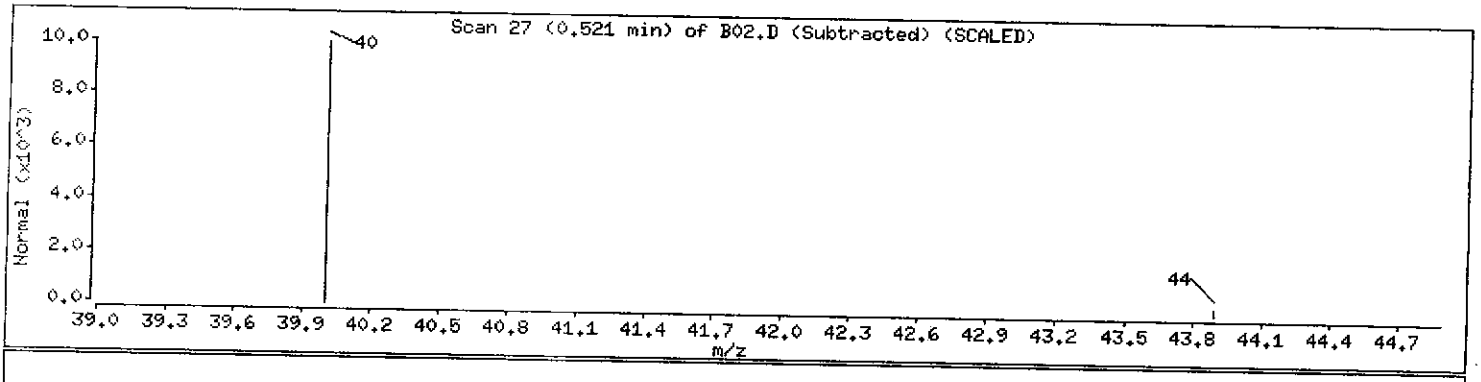
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B03.D
Lab Smp Id: 10ppb Client Smp ID: 10ppb
Inj Date : 07-JUL-2010 14:57
Operator : rsr Inst ID: 50MSV5.i
Smp Info : 10ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51 Cal File: B08.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	16965	10.0000	12.5
2 Chloromethane	50	1.028	1.033	(0.257)	23257	10.0000	11.9
3 Vinyl Chloride	62	1.059	1.059	(0.264)	15194	10.0000	12.1
4 Bromomethane	94	1.201	1.200	(0.300)	8083	10.0000	11.0
139 Methyl Acetate	43	1.776	1.776	(0.443)	6068	10.0000	9.47(M)
5 Chloroethane	64	1.242	1.242	(0.310)	8048	10.0000	12.8
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	21255	10.0000	9.55
7 Diethyl ether	74	1.473	1.472	(0.367)	2682	10.0000	9.23
8 Acrolein	56	1.535	1.535	(0.383)	19499	200.000	242
9 1,1-Dichloroethene	96	1.588	1.593	(0.396)	6775	10.0000	9.34
10 1,1,2trichlorotrifluoroethane	101	1.588	1.587	(0.396)	8174	10.0000	9.60
11 Acetone	43	1.609	1.608	(0.401)	7947	50.0000	25.9
12 Iodomethane	142	1.677	1.676	(0.418)	20581	20.0000	15.1
13 Carbon Disulfide	76	1.713	1.713	(0.427)	42076	20.0000	19.5
142 Acetonitrile	39	1.771	1.770	(0.442)	20338	200.000	201
14 allyl chloride	41	1.771	1.770	(0.442)	33302	20.0000	20.0
15 Methylene Chloride	84	1.839	1.838	(0.459)	10804	10.0000	8.39
16 Acrylonitrile	53	1.975	1.974	(0.493)	37945	200.000	196
17 tert-Butyl Alcohol	59	1.881	1.880	(0.469)	722	20.0000	17.2(M)
18 1,2-Dichloroethene (trans)	96	2.001	1.995	(0.499)	7845	10.0000	10.1
19 Methyl-tert-butyl ether	73	1.996	1.995	(0.498)	28769	20.0000	18.8
20 n-Hexane	57	2.168	2.168	(0.541)	15620	10.0000	9.77
21 1,1-Dichloroethane	63	2.273	2.273	(0.567)	15698	10.0000	9.69

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.304	2.304	(0.575)	53517	40.0000	37.7
	143 Chloroprene	53	2.336	2.341	(0.583)	16805	10.0000	9.97
	24 2,2-Dichloropropane	77	2.733	2.728	(0.682)	11512	10.0000	9.82
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	8383	10.0000	9.58
	26 2-Butanone	43	2.744	2.743	(0.684)	13359	50.0000	45.6(M)
	27 Propionitrile	54	2.806	2.801	(0.700)	452	10.0000	6.30(QM)
	144 Methacrylonitrile	41	2.942	2.942	(0.734)	3783	50.0000	41.2
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	9123	10.0000	9.69
	29 Bromochloromethane	49	2.948	2.947	(0.735)	8773	10.0000	10.3
	30 Tetrahydrofuran	42	3.000	3.000	(0.748)	5147	10.0000	6.77
	31 Chloroform	83	3.021	3.026	(0.753)	14627	10.0000	10.2
$	32 Dibromofluoromethane (S)	113	3.188	3.193	(0.795)	44941	50.0000	51.3
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.802)	13720	10.0000	9.51
	35 Carbon Tetrachloride	117	3.392	3.397	(0.846)	11952	10.0000	8.85
	36 1,1-Dichloropropene	75	3.392	3.397	(0.846)	10346	10.0000	9.13
	37 Isobutyl alcohol	43	3.753	3.763	(0.936)	8534	10.0000	9.42(M)
	140 Cyclohexane	56	3.267	3.272	(0.815)	17443	10.0000	9.92
	38 Benzene	78	3.643	3.643	(0.909)	28305	10.0000	9.39
	39 1,2-Dichloroethane	62	3.675	3.669	(0.917)	9924	10.0000	9.59(M)
	138 2,2,4-Trimethylpentane	57	3.753	3.758	(0.936)	41297	10.0000	9.37
	141 Methylcyclohexane	55	4.679	4.684	(1.167)	16400	10.0000	9.71
*	40 Fluorobenzene	96	4.009	4.009	(1.000)	175999	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.113)	9313	10.0000	9.62
	42 1,2-Dichloropropane	63	4.731	4.736	(1.180)	9449	10.0000	9.04(M)
	43 Dibromomethane	93	4.867	4.867	(1.214)	4086	10.0000	8.73(M)
	44 Methyl methacrylate	69	4.930	4.930	(1.230)	2759	10.0000	7.61
	45 Bromodichloromethane	83	5.071	5.071	(1.265)	9875	10.0000	8.75(M)
	46 2-Chloroethyl vinyl ether	63	5.458	5.458	(0.756)	4782	20.0000	28.9
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.775)	11341	10.0000	9.35
	48 4-Methyl-2-Pentanone	43	5.793	5.793	(0.803)	33485	50.0000	44.7
$	49 Toluene-d8	98	5.871	5.871	(0.814)	175841	50.0000	50.4
	50 Toluene	91	5.944	5.944	(0.824)	38019	10.0000	9.69
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.861)	9093	10.0000	8.89
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	6818	10.0000	9.10(M)
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	5321	10.0000	11.1
	54 Tetrachloroethene	166	6.509	6.509	(0.902)	13323	10.0000	9.86
	55 1,3-Dichloropropane	76	6.551	6.551	(0.908)	10673	10.0000	9.59
	56 2-Hexanone	43	6.666	6.666	(0.924)	22762	50.0000	44.0
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	8357	10.0000	8.88
	58 1,2-Dibromoethane	107	6.834	6.833	(0.947)	7044	10.0000	9.63
*	59 Chlorobenzene-d5	117	7.215	7.215	(1.000)	146779	50.0000	
	60 Chlorobenzene	112	7.236	7.236	(1.003)	28534	10.0000	9.30
	61 1,1,1,2-Tetrachloroethane	131	7.310	7.309	(1.013)	10496	10.0000	9.11
	62 Ethylbenzene	106	7.330	7.335	(1.016)	15662	10.0000	9.40
	63 m&p-Xylene	106	7.419	7.424	(1.028)	37688	20.0000	18.7
	65 o-Xylene	106	7.697	7.696	(1.067)	18894	10.0000	9.51
	66 Styrene	104	7.707	7.707	(1.068)	29673	10.0000	9.28
	67 Bromoform	173	7.822	7.827	(0.897)	4640	10.0000	13.2
	68 Isopropylbenzene	105	7.942	7.942	(1.101)	49233	10.0000	9.21
	69 trans-1,4-Dichloro-2-butene	53	8.173	8.172	(1.133)	2439	10.0000	8.48(M)
$	70 4-Bromofluorobenzene	95	8.037	8.036	(1.114)	68921	50.0000	50.6
	71 Bromobenzene	77	8.125	8.125	(1.126)	15926	10.0000	8.97
	72 1,1,2,2-Tetrachloroethane	83	8.136	8.141	(0.933)	7845	10.0000	8.61(M)
	73 1,2,3-Trichloropropane	75	8.157	8.162	(0.936)	8816	10.0000	9.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.199	8.198	(0.941)	61025	10.0000	9.71
75 2-Chlorotoluene	91	8.246	8.246	(0.946)	34536	10.0000	9.62
76 4-Chlorotoluene	126	8.314	8.314	(0.954)	13724	10.0000	9.26
77 1,3,5-Trimethylbenzene	105	8.309	8.308	(0.953)	42333	10.0000	9.47
78 tert-Butylbenzene	119	8.497	8.497	(0.975)	52814	10.0000	9.16
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	44500	10.0000	9.48
80 sec-Butylbenzene	105	8.617	8.617	(0.989)	60024	10.0000	9.52
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	26663	10.0000	9.40
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	90974	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	55991	10.0000	9.60
84 1,4-Dichlorobenzene	146	8.727	8.727	(1.001)	26968	10.0000	9.19
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	24251	10.0000	9.24
86 n-Butylbenzene	91	8.920	8.920	(1.023)	45920	10.0000	9.64
87 1,2-Dibromo-3-chloropropane	155	9.344	9.339	(1.072)	1163	10.0000	7.91
88 1,2,4-Trichlorobenzene	180	9.757	9.752	(1.119)	15651	10.0000	8.98
89 Hexachlorobutadiene	225	9.836	9.830	(1.128)	11235	10.0000	9.80
90 Naphthalene	128	9.883	9.877	(1.134)	28301	10.0000	8.56
91 1,2,3-Trichlorobenzene	180	10.003	10.003	(1.148)	13834	10.0000	8.83
92 2,methyl-naphthalene	142	10.495	10.489	(1.204)	10009	10.0000	14.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B03.D
Lab Smp Id: 10ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: 10ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	175999	4.18
59 Chlorobenzene-d5	150139	75070	300278	146779	-2.24
82 1,4-Dichlorobenze	91936	45968	183872	90974	-1.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.01
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	12.5	
74-87-3	Chloromethane	11.9	
75-01-4	Vinyl Chloride	12.1	
74-83-9	Bromomethane	11.0	
79-20-9	Methyl Acetate	9.47	
75-00-3	Chloroethane	12.8	
75-69-4	Trichlorofluoromethane	9.55	
60-29-7	Diethyl ether	9.23	
107-02-8	Acrolein	242	
75-35-4	1,1-Dichloroethene	9.34	
76-13-1	1,1,2trichlorotrifluoroethan	9.60	
67-64-1	Acetone	25.9	
	Iodomethane	15.1	
75-15-0	Carbon Disulfide	19.5	
75-05-8	Acetonitrile	201	
107-05-1	allyl chloride	20.0	
75-09-2	Methylene Chloride	8.39	
107-13-1	Acrylonitrile	196	
75-65-0	tert-Butyl Alcohol	17.2	
156-60-5	1,2-Dichloroethene (trans)	10.1	
1634-04-4	Methyl-tert-butyl ether	18.8	
	n-Hexane	9.77	
75-34-3	1,1-Dichloroethane	9.69	
108-05-4	Vinyl Acetate	37.7	
126-99-8	Chloroprene	9.97	
594-20-7	2,2-Dichloropropane	9.82	
156-59-2	1,2-Dichloroethene (cis)	9.58	
78-93-3	2-Butanone	45.6	
107-12-0	Propionitrile	6.30	
126-98-7	Methacrylonitrile	41.2	
354-23-4	1,2-dichlorotrifluoroethane	9.69	
74-97-5	Bromochloromethane	10.3	
	Tetrahydrofuran	6.77	
67-66-3	Chloroform	10.2	
71-55-6	1,1,1-Trichloroethane	9.51	
56-23-5	Carbon Tetrachloride	8.85	
563-58-6	1,1-Dichloropropene	9.13	
78-83-1	Isobutyl alcohol	9.42	
110-82-7	Cyclohexane	9.92	
71-43-2	Benzene	9.39	
107-06-2	1,2-Dichloroethane	9.59	
540-84-1	2,2,4-Trimethylpentane	9.37	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	9.71	
79-01-6	Trichloroethene	9.62	
78-87-5	1,2-Dichloropropane	9.04	
74-95-3	Dibromomethane	8.73	
80-62-6	Methyl methacrylate	7.61	
75-27-4	Bromodichloromethane	8.75	
110-75-8	2-Chloroethyl vinyl ether	28.9	
10061-01-5	cis-1,3-Dichloropropene	9.35	
108-10-1	4-Methyl-2-Pentanone	44.7	
108-88-3	Toluene	9.69	
10061-02-6	trans-1,3-Dichloropropene	8.89	
	Ethyl Methacrylate	9.10	
79-00-5	1,1,2-Trichloroethane	11.1	
127-18-4	Tetrachloroethene	9.86	
142-28-9	1,3-Dichloropropane	9.59	
591-78-6	2-Hexanone	44.0	
124-48-1	Dibromochloromethane	8.88	
106-93-4	1,2-Dibromoethane	9.63	
108-90-7	Chlorobenzene	9.30	
630-20-6	1,1,1,2-Tetrachloroethane	9.11	
100-41-4	Ethylbenzene	9.40	
7816-60-0	m&p-Xylene	18.7	
95-47-6	o-Xylene	9.51	
100-42-5	Styrene	9.28	
75-25-2	Bromoform	13.2	
98-82-8	Isopropylbenzene	9.21	
	trans-1,4-Dichloro-2-butene	8.48	
108-86-1	Bromobenzene	8.97	
79-34-5	1,1,2,2-Tetrachloroethane	8.61	
96-18-4	1,2,3-Trichloropropane	9.18	
103-65-1	n-Propylbenzene	9.71	
95-49-8	2-Chlorotoluene	9.62	
106-43-4	4-Chlorotoluene	9.26	
108-67-8	1,3,5-Trimethylbenzene	9.47	
98-06-6	tert-Butylbenzene	9.16	
95-63-6	1,2,4-Trimethylbenzene	9.48	
135-98-8	sec-Butylbenzene	9.52	
541-73-1	1,3-Dichlorobenzene	9.40	
99-87-6	p-Isopropyltoluene	9.60	
106-46-7	1,4-Dichlorobenzene	9.19	
95-50-1	1,2-Dichlorobenzene	9.24	
104-51-8	n-Butylbenzene	9.64	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

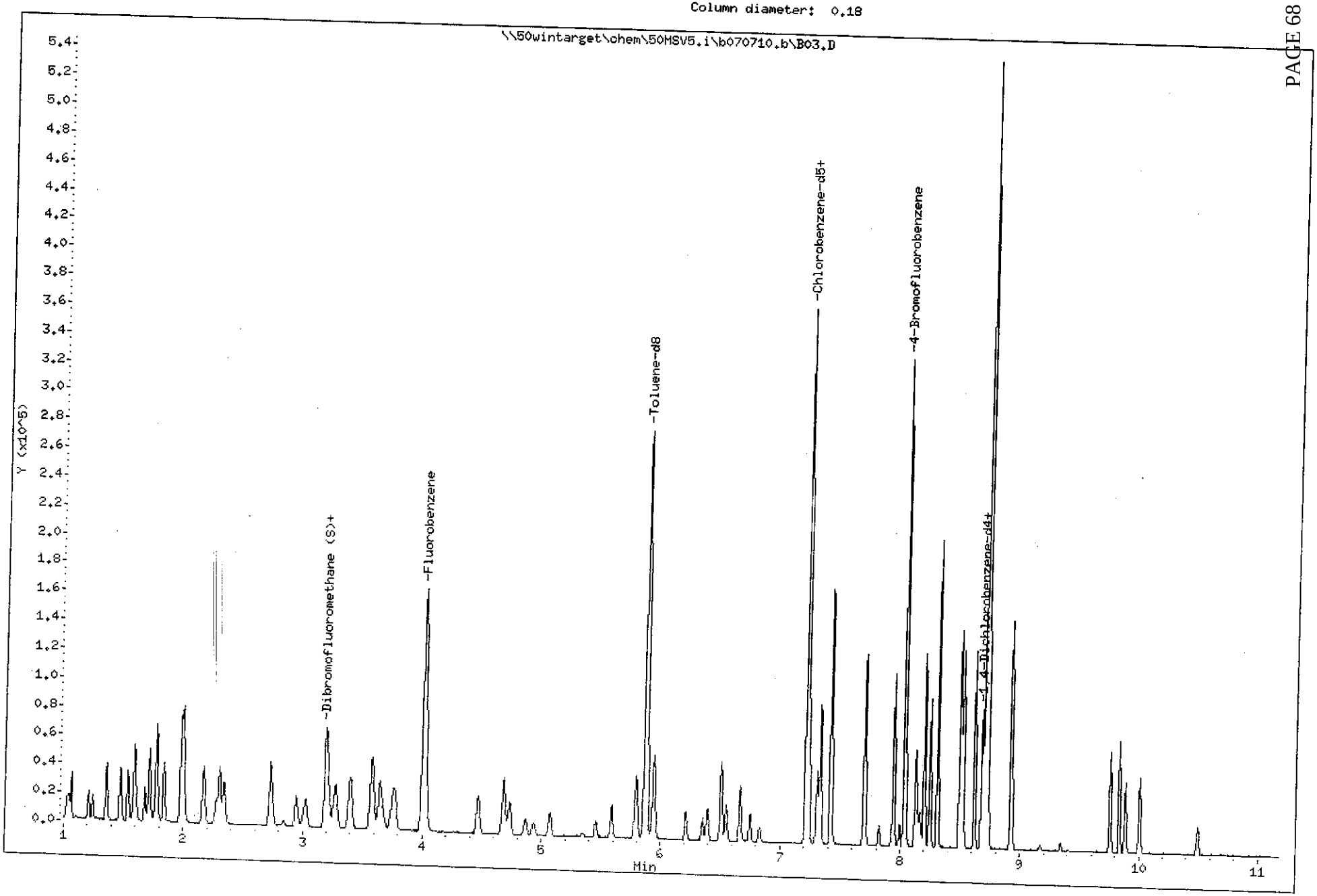
Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	7.91	
120-82-1	1,2,4-Trichlorobenzene	8.98	
87-68-3	Hexachlorobutadiene	9.80	
91-20-3	Naphthalene	8.56	
87-61-6	1,2,3-Trichlorobenzene	8.83	
	2,methyl-naphthalene	14.5	
1868-53-7	Dibromofluoromethane (S)	51.3	
2037-26-5	Toluene-d8	50.4	
460-00-4	4-Bromofluorobenzene	50.6	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B03.D
Date : 07-JUL-2010 14:57
Client ID: 10ppb
Sample Info: 10ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B03.D

Date : 07-JUL-2010 14:57

Client ID: 10ppb

Instrument: 50MSV5.i

Sample Info: 10ppb

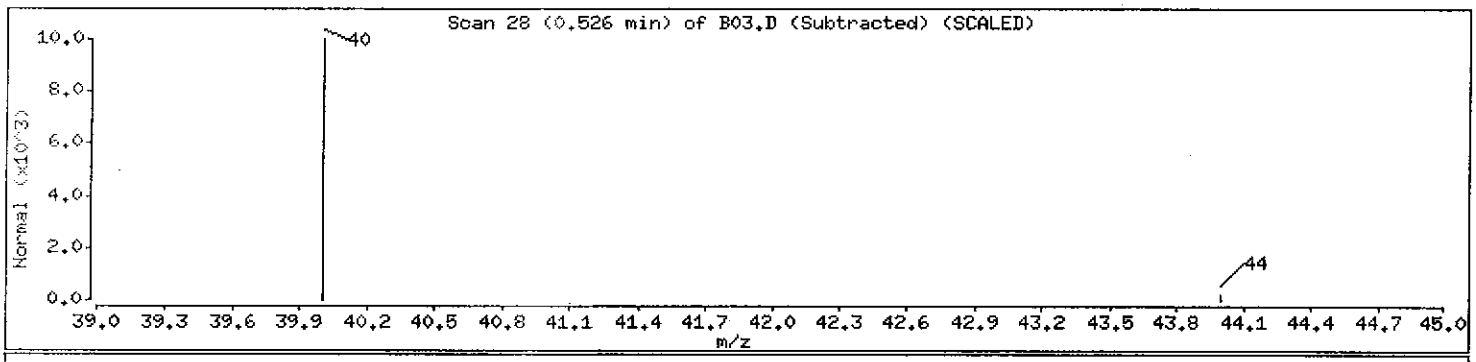
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B04.D
Lab Smp Id: 50ppb 34B-158/204 Client Smp ID: 50ppb
Inj Date : 07-JUL-2010 15:34
Operator : rsr Inst ID: 50MSV5.i
Smp Info : 50ppb 34B-158/204
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51 Cal File: B08.D
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	72381	50.0000	55.6
2 Chloromethane	50	1.033	1.033	(0.258)	96735	50.0000	51.5
3 Vinyl Chloride	62	1.059	1.059	(0.264)	66436	50.0000	55.0
4 Bromomethane	94	1.200	1.200	(0.299)	39543	50.0000	56.2
139 Methyl Acetate	43	1.776	1.776	(0.443)	34044	50.0000	55.4
5 Chloroethane	64	1.242	1.242	(0.310)	32519	50.0000	53.9
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	90116	50.0000	53.9
7 Diethyl ether	74	1.472	1.472	(0.367)	14955	50.0000	53.6
8 Acrolein	56	1.535	1.535	(0.383)	88018	1000.00	1140
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	37025	50.0000	53.2
10 1,1,2trichlorotrifluoroethane	101	1.587	1.587	(0.396)	43480	50.0000	53.2
11 Acetone	43	1.608	1.608	(0.401)	35653	250.000	271
12 Iodomethane	142	1.676	1.676	(0.418)	145523	100.000	104
13 Carbon Disulfide	76	1.713	1.713	(0.427)	223110	100.000	108
142 Acetonitrile	39	1.770	1.770	(0.442)	109418	1000.00	1130
14 allyl chloride	41	1.770	1.770	(0.442)	175695	100.000	110
15 Methylene Chloride	84	1.838	1.838	(0.459)	40431	50.0000	53.9
16 Acrylonitrile	53	1.974	1.974	(0.493)	200400	1000.00	1080
17 tert-Butyl Alcohol	59	1.880	1.880	(0.469)	4614	100.000	115(Q)
18 1,2-Dichloroethene (trans)	96	1.995	1.995	(0.498)	40754	50.0000	54.6
19 Methyl-tert-butyl ether	73	1.995	1.995	(0.498)	155198	100.000	106
20 n-Hexane	57	2.168	2.168	(0.541)	82356	50.0000	53.7
21 1,1-Dichloroethane	63	2.273	2.273	(0.567)	84418	50.0000	54.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.304	2.304	(0.575)	301029	200.000	221
	143 Chloroprene	53	2.341	2.341	(0.584)	88042	50.0000	54.4
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	61768	50.0000	54.9
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	44829	50.0000	53.4
	26 2-Butanone	43	2.743	2.743	(0.684)	72129	250.000	257
	27 Propionitrile	54	2.801	2.801	(0.699)	3603	50.0000	52.4(Q)
	144 Methacrylonitrile	41	2.942	2.942	(0.734)	20560	250.000	233
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	48574	50.0000	53.8
	29 Bromochloromethane	49	2.947	2.947	(0.735)	45778	50.0000	56.0
	30 Tetrahydrofuran	42	3.000	3.000	(0.748)	12537	50.0000	17.2
	31 Chloroform	83	3.026	3.026	(0.755)	75508	50.0000	54.9
$	32 Dibromofluoromethane (S)	113	3.193	3.193	(0.796)	43609	50.0000	51.9
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.802)	74068	50.0000	53.5
	35 Carbon Tetrachloride	117	3.397	3.397	(0.847)	68327	50.0000	52.7
	36 1,1-Dichloropropene	75	3.397	3.397	(0.847)	57115	50.0000	52.5
	37 Isobutyl alcohol	43	3.763	3.763	(0.939)	44362	50.0000	51.0
	140 Cyclohexane	56	3.272	3.272	(0.816)	91526	50.0000	54.2
	38 Benzene	78	3.643	3.643	(0.909)	150208	50.0000	51.9
	39 1,2-Dichloroethane	62	3.669	3.669	(0.915)	54937	50.0000	55.3
	138 2,2,4-Trimethylpentane	57	3.758	3.758	(0.937)	223194	50.0000	52.7
	141 Methylcyclohexane	55	4.684	4.684	(1.168)	88046	50.0000	54.3
*	40 Fluorobenzene	96	4.009	4.009	(1.000)	168934	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.113)	50402	50.0000	54.2
	42 1,2-Dichloropropane	63	4.736	4.736	(1.181)	51699	50.0000	51.5
	43 Dibromomethane	93	4.867	4.867	(1.214)	24236	50.0000	54.0
	44 Methyl methacrylate	69	4.930	4.930	(1.230)	18270	50.0000	52.5
	45 Bromodichloromethane	83	5.071	5.071	(1.265)	59844	50.0000	55.2
	46 2-Chloroethyl vinyl ether	63	5.458	5.458	(0.756)	31696	100.000	100
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.775)	64997	50.0000	52.4
	48 4-Methyl-2-Pentanone	43	5.793	5.793	(0.803)	191111	250.000	250
$	49 Toluene-d8	98	5.871	5.871	(0.814)	177545	50.0000	49.7
	50 Toluene	91	5.944	5.944	(0.824)	203157	50.0000	50.6
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.861)	55288	50.0000	52.8
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	40313	50.0000	52.6
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	28871	50.0000	50.0
	54 Tetrachloroethene	166	6.509	6.509	(0.902)	67452	50.0000	48.8
	55 1,3-Dichloropropane	76	6.551	6.551	(0.908)	57853	50.0000	50.8
	56 2-Hexanone	43	6.666	6.666	(0.924)	133844	250.000	253
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	48633	50.0000	50.5
	58 1,2-Dibromoethane	107	6.833	6.833	(0.947)	38984	50.0000	52.1
*	59 Chlorobenzene-d5	117	7.215	7.215	(1.000)	150139	50.0000	
	60 Chlorobenzene	112	7.236	7.236	(1.003)	158353	50.0000	50.4
	61 1,1,1,2-Tetrachloroethane	131	7.309	7.309	(1.013)	59862	50.0000	50.8
	62 Ethylbenzene	106	7.335	7.335	(1.017)	88219	50.0000	51.8
	63 m&p-Xylene	106	7.424	7.424	(1.029)	213489	100.000	104
	65 o-Xylene	106	7.696	7.696	(1.067)	103271	50.0000	50.8
	66 Styrene	104	7.707	7.707	(1.068)	166658	50.0000	50.9
	67 Bromoform	173	7.827	7.827	(0.898)	28431	50.0000	46.6
	68 Isopropylbenzene	105	7.942	7.942	(1.101)	282147	50.0000	51.6
	69 trans-1,4-Dichloro-2-butene	53	8.172	8.172	(1.133)	16067	50.0000	54.6(Q)
$	70 4-Bromofluorobenzene	95	8.036	8.036	(1.114)	69573	50.0000	49.9
	71 Bromobenzene	77	8.125	8.125	(1.126)	89353	50.0000	49.2
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.934)	45794	50.0000	49.7
	73 1,2,3-Trichloropropane	75	8.162	8.162	(0.936)	47208	50.0000	48.7

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.198	8.198	(0.941)	327143	50.0000	51.5
75 2-Chlorotoluene	91	8.246	8.246	(0.946)	186889	50.0000	51.5
76 4-Chlorotoluene	126	8.314	8.314	(0.954)	77159	50.0000	51.5
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	234509	50.0000	51.9
78 tert-Butylbenzene	119	8.497	8.497	(0.975)	301198	50.0000	51.7
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	246151	50.0000	51.9
80 sec-Butylbenzene	105	8.617	8.617	(0.989)	333968	50.0000	52.4
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	145107	50.0000	50.6
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	91936	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	309006	50.0000	52.4
84 1,4-Dichlorobenzene	146	8.727	8.727	(1.001)	149805	50.0000	50.5
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	134269	50.0000	50.6
86 n-Butylbenzene	91	8.920	8.920	(1.023)	261093	50.0000	54.2
87 1,2-Dibromo-3-chloropropane	155	9.339	9.339	(1.071)	7417	50.0000	49.9
88 1,2,4-Trichlorobenzene	180	9.752	9.752	(1.119)	97265	50.0000	55.2
89 Hexachlorobutadiene	225	9.830	9.830	(1.128)	62277	50.0000	53.7
90 Naphthalene	128	9.877	9.877	(1.133)	181058	50.0000	54.2
91 1,2,3-Trichlorobenzene	180	10.003	10.003	(1.148)	85424	50.0000	54.0
92 2,methyl-naphthalene	142	10.489	10.489	(1.203)	102849	50.0000	49.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B04.D
Lab Smp Id: 50ppb 34B-158/204
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: ~~15:34~~
Client Smp ID: 50ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	168934	0.00
59 Chlorobenzene-d5	150139	75070	300278	150139	0.00
82 1,4-Dichlorobenze	91936	45968	183872	91936	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.00
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb 34B-158/204
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	55.6	
74-87-3	Chloromethane	51.5	
75-01-4	Vinyl Chloride	55.0	
74-83-9	Bromomethane	56.2	
79-20-9	Methyl Acetate	55.4	
75-00-3	Chloroethane	53.9	
75-69-4	Trichlorofluoromethane	53.9	
60-29-7	Diethyl ether	53.6	
107-02-8	Acrolein	1140	
75-35-4	1,1-Dichloroethene	53.2	
76-13-1	1,1,2trichlorotrifluoroethan	53.2	
67-64-1	Acetone	271	
	Iodomethane	104	
75-15-0	Carbon Disulfide	108	
75-05-8	Acetonitrile	1130	
107-05-1	allyl chloride	110	
75-09-2	Methylene Chloride	53.9	
107-13-1	Acrylonitrile	1080	
75-65-0	tert-Butyl Alcohol	115	
156-60-5	1,2-Dichloroethene (trans)	54.6	
1634-04-4	Methyl-tert-butyl ether	106	
	n-Hexane	53.7	
75-34-3	1,1-Dichloroethane	54.3	
108-05-4	Vinyl Acetate	221	
126-99-8	Chloroprene	54.4	
594-20-7	2,2-Dichloropropane	54.9	
156-59-2	1,2-Dichloroethene (cis)	53.4	
78-93-3	2-Butanone	257	
107-12-0	Propionitrile	52.4	
126-98-7	Methacrylonitrile	233	
354-23-4	1,2-dichlorotrifluoroethane	53.8	
74-97-5	Bromochloromethane	56.0	
	Tetrahydrofuran	17.2	
67-66-3	Chloroform	54.9	
71-55-6	1,1,1-Trichloroethane	53.5	
56-23-5	Carbon Tetrachloride	52.7	
563-58-6	1,1-Dichloropropene	52.5	
78-83-1	Isobutyl alcohol	51.0	
110-82-7	Cyclohexane	54.2	
71-43-2	Benzene	51.9	
107-06-2	1,2-Dichloroethane	55.3	
540-84-1	2,2,4-Trimethylpentane	52.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb 34B-158/204
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	54.3	
79-01-6	Trichloroethene	54.2	
78-87-5	1,2-Dichloropropane	51.5	
74-95-3	Dibromomethane	54.0	
80-62-6	Methyl methacrylate	52.5	
75-27-4	Bromodichloromethane	55.2	
110-75-8	2-Chloroethyl vinyl ether	100	
10061-01-5	cis-1,3-Dichloropropene	52.4	
108-10-1	4-Methyl-2-Pentanone	250	
108-88-3	Toluene	50.6	
10061-02-6	trans-1,3-Dichloropropene	52.8	
	Ethyl Methacrylate	52.6	
79-00-5	1,1,2-Trichloroethane	50.0	
127-18-4	Tetrachloroethene	48.8	
142-28-9	1,3-Dichloropropane	50.8	
591-78-6	2-Hexanone	253	
124-48-1	Dibromochloromethane	50.5	
106-93-4	1,2-Dibromoethane	52.1	
108-90-7	Chlorobenzene	50.4	
630-20-6	1,1,1,2-Tetrachloroethane	50.8	
100-41-4	Ethylbenzene	51.8	
7816-60-0	m&p-Xylene	104	
95-47-6	o-Xylene	50.8	
100-42-5	Styrene	50.9	
75-25-2	Bromoform	46.6	
98-82-8	Isopropylbenzene	51.6	
	trans-1,4-Dichloro-2-butene	54.6	
108-86-1	Bromobenzene	49.2	
79-34-5	1,1,2,2-Tetrachloroethane	49.7	
96-18-4	1,2,3-Trichloropropane	48.7	
103-65-1	n-Propylbenzene	51.5	
95-49-8	2-Chlorotoluene	51.5	
106-43-4	4-Chlorotoluene	51.5	
108-67-8	1,3,5-Trimethylbenzene	51.9	
98-06-6	tert-Butylbenzene	51.7	
95-63-6	1,2,4-Trimethylbenzene	51.9	
135-98-8	sec-Butylbenzene	52.4	
541-73-1	1,3-Dichlorobenzene	50.6	
99-87-6	p-Isopropyltoluene	52.4	
106-46-7	1,4-Dichlorobenzene	50.5	
95-50-1	1,2-Dichlorobenzene	50.6	
104-51-8	n-Butylbenzene	54.2	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb 34B-158/204
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

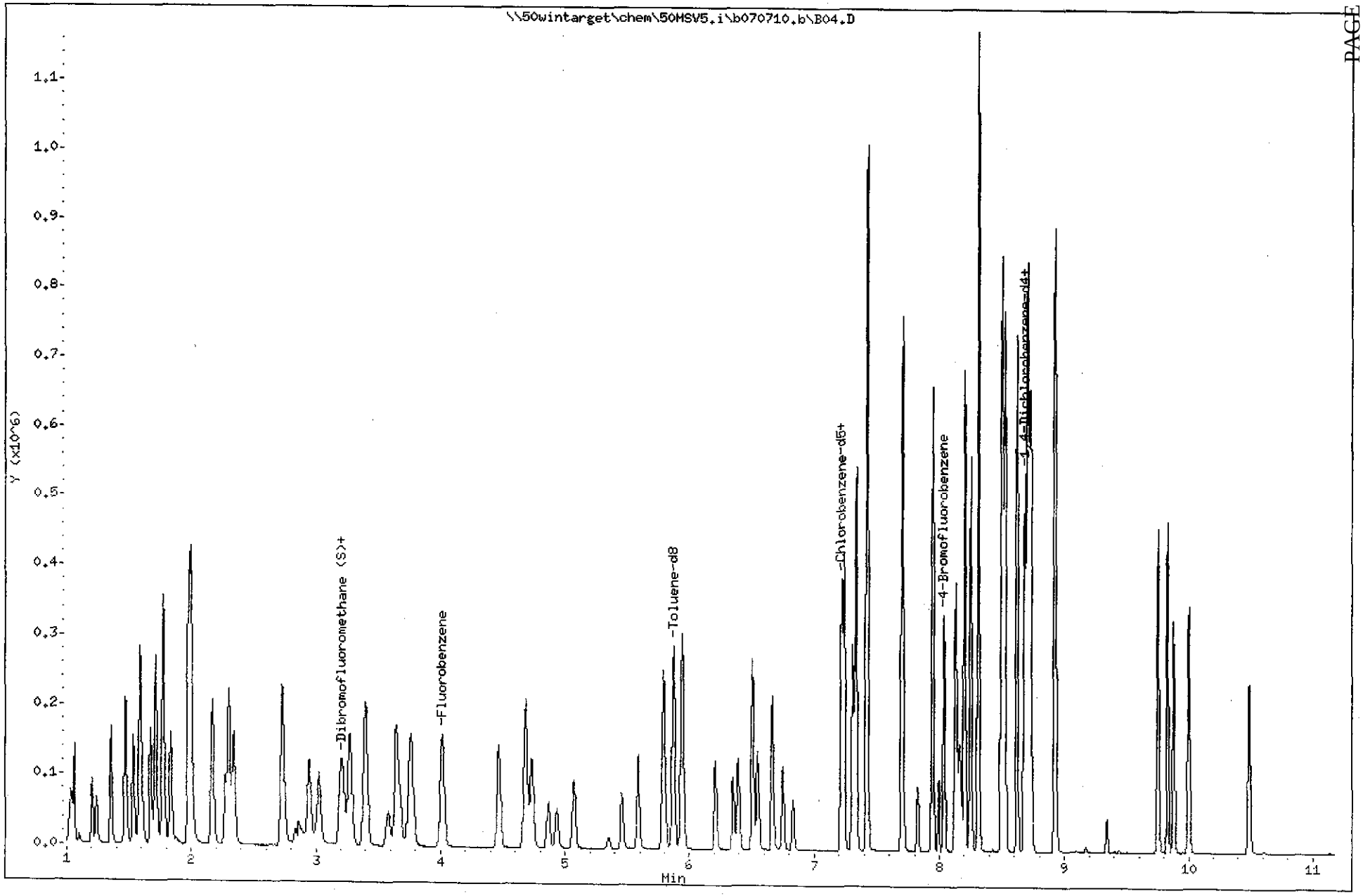
Client SDG: b070710.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	49.9	
120-82-1	1,2,4-Trichlorobenzene	55.2	
87-68-3	Hexachlorobutadiene	53.7	
91-20-3	Naphthalene	54.2	
87-61-6	1,2,3-Trichlorobenzene	54.0	
	2,methyl-naphthalene	49.2	
1868-53-7	Dibromofluoromethane (S)	51.9	
2037-26-5	Toluene-d8	49.7	
460-00-4	4-Bromofluorobenzene	49.9	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B04.D
Date : 07-JUL-2010 15:34
Client ID: 50ppb
Sample Info: 50ppb 34B-158/204
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B04.D

Date : 07-JUL-2010 15:34

Client ID: 50ppb

Instrument: 50MSV5.i

Sample Info: 50ppb 34B-158/204

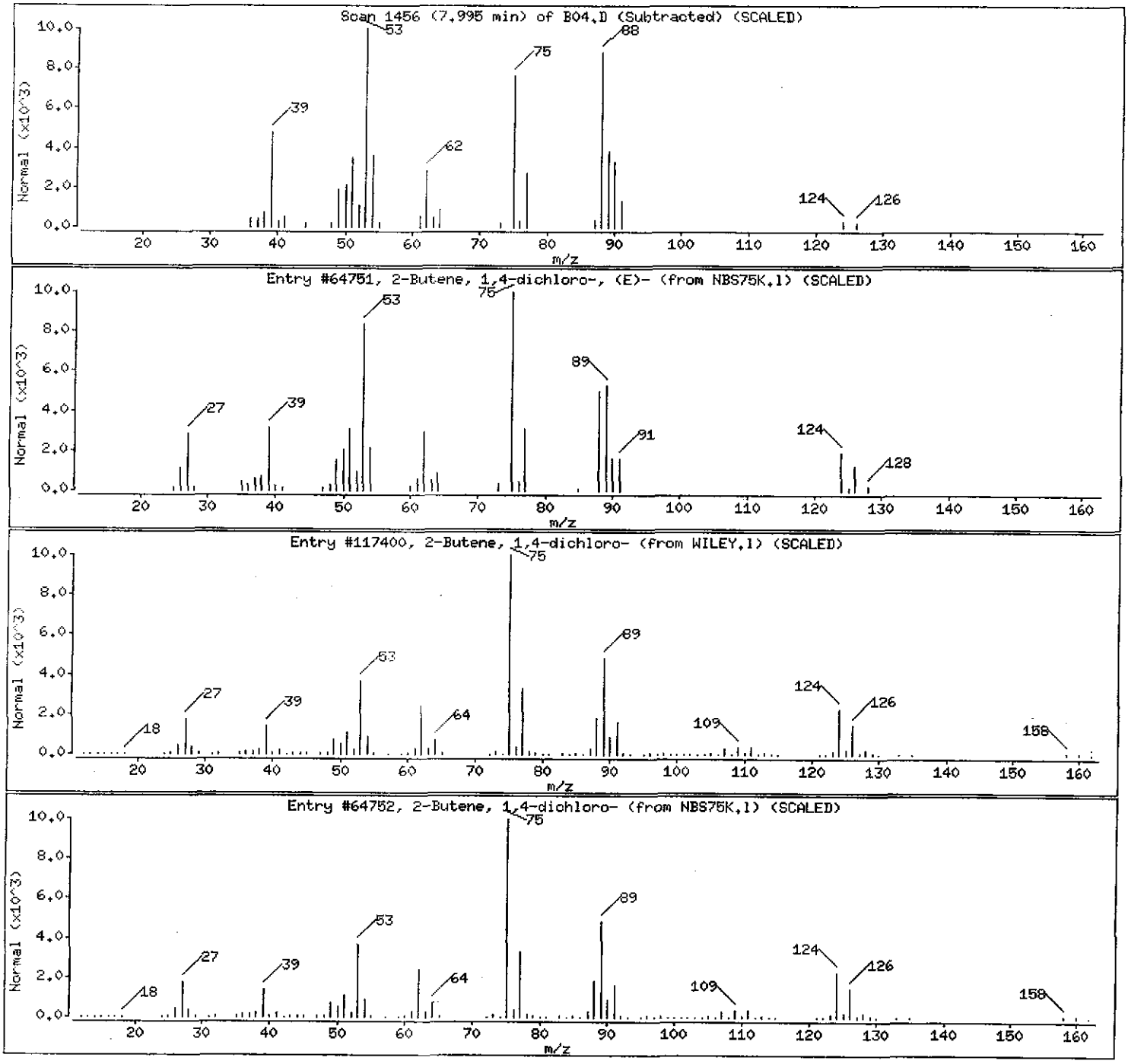
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 1,4-dichloro-, (E)-	110-57-6	NBS75K.l	64751	81	C4H6Cl2	124
2-Butene, 1,4-dichloro-	764-41-0	WILEY.l	117400	72	C4H6Cl2	124
2-Butene, 1,4-dichloro-	764-41-0	NBS75K.l	64752	72	C4H6Cl2	124



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B04CCV.D
Lab Smp Id: ccv 34B-158/204 Client Smp ID: ccv
Inj Date : 07-JUL-2010 15:34
Operator : rsr Inst ID: 50MSV5.i
Smp Info : ccv 34B-158/204
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51 Cal File: B08.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	72381	50.0000	55.6
2 Chloromethane	50	1.033	1.033	(0.258)	96735	50.0000	51.5
3 Vinyl Chloride	62	1.059	1.059	(0.264)	66436	50.0000	55.0
4 Bromomethane	94	1.200	1.200	(0.299)	39543	50.0000	56.2
139 Methyl Acetate	43	1.776	1.776	(0.443)	34044	50.0000	55.4
5 Chloroethane	64	1.242	1.242	(0.310)	32519	50.0000	53.9
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	90116	50.0000	53.9
7 Diethyl ether	74	1.472	1.472	(0.367)	14955	50.0000	53.6
8 Acrolein	56	1.535	1.535	(0.383)	88018	1000.00	1140
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	37025	50.0000	53.2
10 1,1,2trichlorotrifluoroethane	101	1.587	1.587	(0.396)	43480	50.0000	53.2
11 Acetone	43	1.608	1.608	(0.401)	35653	250.000	271
12 Iodomethane	142	1.676	1.676	(0.418)	145523	100.000	104
13 Carbon Disulfide	76	1.713	1.713	(0.427)	223110	100.000	108
142 Acetonitrile	39	1.770	1.770	(0.442)	109418	1000.00	1130
14 allyl chloride	41	1.770	1.770	(0.442)	175695	100.000	110
15 Methylene Chloride	84	1.838	1.838	(0.459)	40431	50.0000	53.9
16 Acrylonitrile	53	1.974	1.974	(0.493)	200400	1000.00	1080
17 tert-Butyl Alcohol	59	1.880	1.880	(0.469)	4614	100.000	115(Q)
18 1,2-Dichloroethene (trans)	96	1.995	1.995	(0.498)	40754	50.0000	54.6
19 Methyl-tert-butyl ether	73	1.995	1.995	(0.498)	155198	100.000	106
20 n-Hexane	57	2.168	2.168	(0.541)	82356	50.0000	53.7
21 1,1-Dichloroethane	63	2.273	2.273	(0.567)	84418	50.0000	54.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.304	2.304	(0.575)	301029	200.000	221
	143 Chloroprene	53	2.341	2.341	(0.584)	88042	50.0000	54.4
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	61768	50.0000	54.9
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	44829	50.0000	53.4
	26 2-Butanone	43	2.743	2.743	(0.684)	72129	250.000	257
	27 Propionitrile	54	2.801	2.801	(0.699)	3603	50.0000	52.4
	144 Methacrylonitrile	41	2.942	2.942	(0.734)	20560	250.000	233
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	48574	50.0000	53.8
	29 Bromochloromethane	49	2.947	2.947	(0.735)	45778	50.0000	56.0
	30 Tetrahydrofuran	42	3.000	3.000	(0.748)	12537	50.0000	17.2
	31 Chloroform	83	3.026	3.026	(0.755)	75508	50.0000	54.9
$	32 Dibromofluoromethane (S)	113	3.193	3.193	(0.796)	43609	50.0000	51.9
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.802)	74068	50.0000	53.5
	35 Carbon Tetrachloride	117	3.397	3.397	(0.847)	68327	50.0000	52.7
	36 1,1-Dichloropropene	75	3.397	3.397	(0.847)	57115	50.0000	52.5
	37 Isobutyl alcohol	43	3.763	3.763	(0.939)	44362	50.0000	51.0
	140 Cyclohexane	56	3.272	3.272	(0.816)	91526	50.0000	54.2
	38 Benzene	78	3.643	3.643	(0.909)	150208	50.0000	51.9
	39 1,2-Dichloroethane	62	3.669	3.669	(0.915)	54937	50.0000	55.3
	138 2,2,4-Trimethylpentane	57	3.758	3.758	(0.937)	223194	50.0000	52.7
	141 Methylcyclohexane	55	4.684	4.684	(1.168)	88046	50.0000	54.3
*	40 Fluorobenzene	96	4.009	4.009	(1.000)	168934	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.113)	50402	50.0000	54.2
	42 1,2-Dichloropropane	63	4.736	4.736	(1.181)	51699	50.0000	51.5
	43 Dibromomethane	93	4.867	4.867	(1.214)	24236	50.0000	54.0
	44 Methyl methacrylate	69	4.930	4.930	(1.230)	18270	50.0000	52.5
	45 Bromodichloromethane	83	5.071	5.071	(1.265)	59844	50.0000	55.2
	46 2-Chloroethyl vinyl ether	63	5.458	5.458	(0.756)	31696	100.000	100
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.775)	64997	50.0000	52.4
	48 4-Methyl-2-Pentanone	43	5.793	5.793	(0.803)	191111	250.000	250
$	49 Toluene-d8	98	5.871	5.871	(0.814)	177545	50.0000	49.7
	50 Toluene	91	5.944	5.944	(0.824)	203157	50.0000	50.6
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.861)	55288	50.0000	52.8
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	40313	50.0000	52.6
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	28871	50.0000	50.0
	54 Tetrachloroethene	166	6.509	6.509	(0.902)	67452	50.0000	48.8
	55 1,3-Dichloropropane	76	6.551	6.551	(0.908)	57853	50.0000	50.8
	56 2-Hexanone	43	6.666	6.666	(0.924)	133844	250.000	253
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	48633	50.0000	50.5
	58 1,2-Dibromoethane	107	6.833	6.833	(0.947)	38984	50.0000	52.1
*	59 Chlorobenzene-d5	117	7.215	7.215	(1.000)	150139	50.0000	
	60 Chlorobenzene	112	7.236	7.236	(1.003)	158353	50.0000	50.4
	61 1,1,1,2-Tetrachloroethane	131	7.309	7.309	(1.013)	59862	50.0000	50.8
	62 Ethylbenzene	106	7.335	7.335	(1.017)	88219	50.0000	51.8
	63 m&p-Xylene	106	7.424	7.424	(1.029)	213489	100.000	104
	65 o-Xylene	106	7.696	7.696	(1.067)	103271	50.0000	50.8
	66 Styrene	104	7.707	7.707	(1.068)	166658	50.0000	50.9
	67 Bromoform	173	7.827	7.827	(0.898)	28431	50.0000	46.6
	68 Isopropylbenzene	105	7.942	7.942	(1.101)	282147	50.0000	51.6
	69 trans-1,4-Dichloro-2-butene	53	8.172	8.172	(1.133)	16067	50.0000	54.6
$	70 4-Bromofluorobenzene	95	8.036	8.036	(1.114)	69573	50.0000	49.9
	71 Bromobenzene	77	8.125	8.125	(1.126)	89353	50.0000	49.2
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.934)	45794	50.0000	49.7
	73 1,2,3-Trichloropropane	75	8.162	8.162	(0.936)	47208	50.0000	48.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.198	8.198	(0.941)	327143	50.0000	51.5
75 2-Chlorotoluene	91	8.246	8.246	(0.946)	186889	50.0000	51.5
76 4-Chlorotoluene	126	8.314	8.314	(0.954)	77159	50.0000	51.5
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	234509	50.0000	51.9
78 tert-Butylbenzene	119	8.497	8.497	(0.975)	301198	50.0000	51.7
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	246151	50.0000	51.9
80 sec-Butylbenzene	105	8.617	8.617	(0.989)	333968	50.0000	52.4
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	145107	50.0000	50.6
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	91936	50.0000	(Q)
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	309006	50.0000	52.4
84 1,4-Dichlorobenzene	146	8.727	8.727	(1.001)	149805	50.0000	50.5
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	134269	50.0000	50.6
86 n-Butylbenzene	91	8.920	8.920	(1.023)	261093	50.0000	54.2
87 1,2-Dibromo-3-chloropropane	155	9.339	9.339	(1.071)	7417	50.0000	49.9
88 1,2,4-Trichlorobenzene	180	9.752	9.752	(1.119)	97265	50.0000	55.2
89 Hexachlorobutadiene	225	9.830	9.830	(1.128)	62277	50.0000	53.7
90 Naphthalene	128	9.877	9.877	(1.133)	181058	50.0000	54.2
91 1,2,3-Trichlorobenzene	180	10.003	10.003	(1.148)	85424	50.0000	54.0
92 2,methyl-naphthalene	142	10.489	10.489	(1.203)	102849	50.0000	49.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B04CCV.D
Lab Smp Id: ccv 34B-158/204
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	168934	0.00
59 Chlorobenzene-d5	150139	75070	300278	150139	0.00
82 1,4-Dichlorobenze	91936	45968	183872	91936	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.00
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i Injection Date: 07-JUL-2010 15:34
Lab File ID: B04CCV.D Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 13:42 18:03
Lab Sample ID: ccv 34B-158/204 Quant ~~Type:~~ ISTD
Method: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.38563	0.42846	0.42846	0.100	11.10449	20.00000	Averaged	
2 Chloromethane	0.55607	0.57262	0.57262	0.100	2.97650	20.00000	Averaged	
3 Vinyl Chloride	0.35761	0.39327	0.39327	0.100	9.96913	20.00000	Averaged	
4 Bromomethane	0.20836	0.23407	0.23407	0.100	12.33834	20.00000	Averaged	
139 Methyl Acetate	0.18197	0.20152	0.20152	0.100	10.74650	20.00000	Averaged	
5 Chloroethane	0.17844	0.19250	0.19250	0.100	7.87375	20.00000	Averaged	
6 Trichlorofluoromethane	50.00000	53.94058	0.53344	0.100	7.88116	0.000e+000	Linear	
7 Diethyl ether	0.08256	0.08853	0.08853	0.100	7.23225	20.00000	Averaged	
8 Acrolein	0.02287	0.02605	0.02605	0.100	13.91294	20.00000	Averaged	
9 1,1-Dichloroethene	0.20617	0.21917	0.21917	0.100	6.30541	20.00000	Averaged	
10 1,1,2trichlorotrifluoroetha	0.24201	0.25738	0.25738	0.100	6.35107	20.00000	Averaged	
11 Acetone	250	271	0.04221	0.100	8.46009	0.000e+000	Linear	
12 Iodomethane	100	104	0.43071	0.100	4.39211	0.000e+000	Linear	
13 Carbon Disulfide	0.61382	0.66035	0.66035	0.100	7.58036	20.00000	Averaged	
142 Acetonitrile	0.02872	0.03238	0.03238	0.100	12.75550	20.00000	Averaged	
14 allyl chloride	0.47168	0.52001	0.52001	0.100	10.24661	20.00000	Averaged	
15 Methylene Chloride	50.00000	53.89947	0.23933	0.100	7.79894	0.000e+000	Linear	
16 Acrylonitrile	0.05512	0.05931	0.05931	0.100	7.61134	20.00000	Averaged	
17 tert-Butyl Alcohol	0.01191	0.01366	0.01366	0.100	14.69676	20.00000	Averaged	
18 1,2-Dichloroethene (trans)	0.22098	0.24124	0.24124	0.100	9.16689	20.00000	Averaged	
19 Methyl-tert-butyl ether	0.43393	0.45935	0.45935	0.100	5.85816	20.00000	Averaged	
20 n-Hexane	0.45412	0.48750	0.48750	0.100	7.35184	20.00000	Averaged	
21 1,1-Dichloroethane	0.46008	0.49971	0.49971	0.100	8.61297	20.00000	Averaged	
23 Vinyl Acetate	0.40348	0.44548	0.44548	0.100	10.40986	20.00000	Averaged	
143 Chloroprene	0.47865	0.52116	0.52116	0.100	8.88209	20.00000	Averaged	
24 2,2-Dichloropropane	0.33307	0.36563	0.36563	0.100	9.77528	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	0.24869	0.26536	0.26536	0.100	6.70430	20.00000	Averaged	
26 2-Butanone	0.08317	0.08539	0.08539	0.100	2.66951	20.00000	Averaged	
27 Propionitrile	0.02036	0.02133	0.02133	0.100	4.72975	20.00000	Averaged	
144 Methacrylonitrile	0.02610	0.02434	0.02434	0.100	-6.75221	20.00000	Averaged	
28 1,2-dichlorotrifluoroethane	0.26738	0.28753	0.28753	0.100	7.53653	20.00000	Averaged	
29 Bromochloromethane	0.24188	0.27098	0.27098	0.100	12.03045	20.00000	Averaged	
30 Tetrahydrofuran	0.21592	0.07421	0.07421	0.100	-65.63026	20.00000	Averaged	<-
31 Chloroform	0.40673	0.44697	0.44697	0.100	9.89324	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.24874	0.25814	0.25814	0.100	3.77948	20.00000	Averaged	
33 1,1,1-Trichloroethane	0.40997	0.43844	0.43844	0.100	6.94564	20.00000	Averaged	
35 Carbon Tetrachloride	0.38361	0.40446	0.40446	0.100	5.43447	20.00000	Averaged	
36 1,1-Dichloropropene	0.32202	0.33809	0.33809	0.100	4.99037	20.00000	Averaged	
37 Isobutyl alcohol	0.25751	0.26260	0.26260	0.100	1.97780	20.00000	Averaged	
140 Cyclohexane	0.49943	0.54179	0.54179	0.100	8.47976	20.00000	Averaged	
38 Benzene	0.85608	0.88915	0.88915	0.100	3.86294	20.00000	Averaged	
39 1,2-Dichloroethane	0.29393	0.32520	0.32520	0.100	10.63920	20.00000	Averaged	
138 2,2,4-Trimethylpentane	1.25240	1.32119	1.32119	0.100	5.49288	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i
Lab File ID: B04CCV.D
Analysis Type: WATER
Lab Sample ID: ccv 34B-158/204 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m

Injection Date: 07-JUL-2010 15:34
Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Init. Cal. Times: 13:42 18:03

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 Methylcyclohexane	0.48001	0.52119	0.52119	0.100	8.57744	20.00000	Averaged
41 Trichloroethene	0.27499	0.29835	0.29835	0.100	8.49407	20.00000	Averaged
42 1,2-Dichloropropane	0.29694	0.30603	0.30603	0.100	3.06272	20.00000	Averaged
43 Dibromomethane	0.13290	0.14346	0.14346	0.100	7.94910	20.00000	Averaged
44 Methyl methacrylate	0.10298	0.10815	0.10815	0.100	5.02266	20.00000	Averaged
45 Bromodichloromethane	0.32070	0.35424	0.35424	0.100	10.45996	20.00000	Averaged
46 2-Chloroethyl vinyl ether	100	100	0.10556	0.100	-0.02845	0.000e+000	Linear
145 1,4-Dioxane	0.00009	++++	++++	0.100	++++	20.00000	Averaged <-
47 cis-1,3-Dichloropropene	0.41297	0.43291	0.43291	0.100	4.82770	20.00000	Averaged
48 4-Methyl-2-Pentanone	0.25498	0.25458	0.25458	0.100	-0.15687	20.00000	Averaged
$ 49 Toluene-d8	1.18897	1.18254	1.18254	0.100	-0.54136	20.00000	Averaged
50 Toluene	1.33611	1.35313	1.35313	0.100	1.27330	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.34853	0.36825	0.36825	0.100	5.65626	20.00000	Averaged
52 Ethyl Methacrylate	0.25524	0.26850	0.26850	0.100	5.19751	20.00000	Averaged
53 1,1,2-Trichloroethane	50.00000	49.98960	0.19230	0.100	-0.02081	0.000e+000	Linear
54 Tetrachloroethene	0.46049	0.44926	0.44926	0.100	-2.43708	20.00000	Averaged
55 1,3-Dichloropropane	0.37921	0.38533	0.38533	0.100	1.61368	20.00000	Averaged
56 2-Hexanone	0.17641	0.17829	0.17829	0.100	1.06479	20.00000	Averaged
57 Dibromochloromethane	0.32073	0.32392	0.32392	0.100	0.99560	20.00000	Averaged
58 1,2-Dibromoethane	0.24919	0.25965	0.25965	0.100	4.20039	20.00000	Averaged
60 Chlorobenzene	1.04563	1.05471	1.05471	0.300	0.86790	20.00000	Averaged
61 1,1,1,2-Tetrachloroethane	0.39251	0.39871	0.39871	0.100	1.58044	20.00000	Averaged
62 Ethylbenzene	0.56726	0.58758	0.58758	0.100	3.58253	20.00000	Averaged
63 m&p-Xylene	0.68652	0.71097	0.71097	0.100	3.56136	20.00000	Averaged
65 o-Xylene	0.67702	0.68784	0.68784	0.100	1.59811	20.00000	Averaged
66 Styrene	1.08955	1.11002	1.11002	0.100	1.87942	20.00000	Averaged
67 Bromoform	50.00000	46.56757	0.30925	0.100	-6.86487	0.000e+000	Linear
68 Isopropylbenzene	1.82019	1.87924	1.87924	0.100	3.24407	20.00000	Averaged
69 trans 1,4-Dichloro-2-butene	0.09795	0.10701	0.10701	0.100	9.25779	20.00000	Averaged
$ 70 4-Bromofluorobenzene	0.46398	0.46339	0.46339	0.100	-0.12795	20.00000	Averaged
71 Bromobenzene	0.60483	0.59514	0.59514	0.100	-1.60279	20.00000	Averaged
72 1,1,2,2-Tetrachloroethane	0.50081	0.49811	0.49811	0.300	-0.54034	20.00000	Averaged
73 1,2,3-Trichloropropane	0.52749	0.51349	0.51349	0.100	-2.65512	20.00000	Averaged
74 n-Propylbenzene	3.45295	3.55838	3.55838	0.100	3.05337	20.00000	Averaged
75 2-Chlorotoluene	1.97361	2.03282	2.03282	0.100	3.00005	20.00000	Averaged
76 4-Chlorotoluene	0.81469	0.83927	0.83927	0.100	3.01689	20.00000	Averaged
77 1,3,5-Trimethylbenzene	2.45632	2.55079	2.55079	0.100	3.84563	20.00000	Averaged
78 tert-Butylbenzene	3.16892	3.27617	3.27617	0.100	3.38441	20.00000	Averaged
79 1,2,4-Trimethylbenzene	2.57969	2.67742	2.67742	0.100	3.78834	20.00000	Averaged
80 sec-Butylbenzene	3.46386	3.63261	3.63261	0.100	4.87183	20.00000	Averaged
81 1,3-Dichlorobenzene	1.55910	1.57835	1.57835	0.100	1.23447	20.00000	Averaged
83 p-Isopropyltoluene	3.20595	3.36110	3.36110	0.100	4.83928	20.00000	Averaged

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

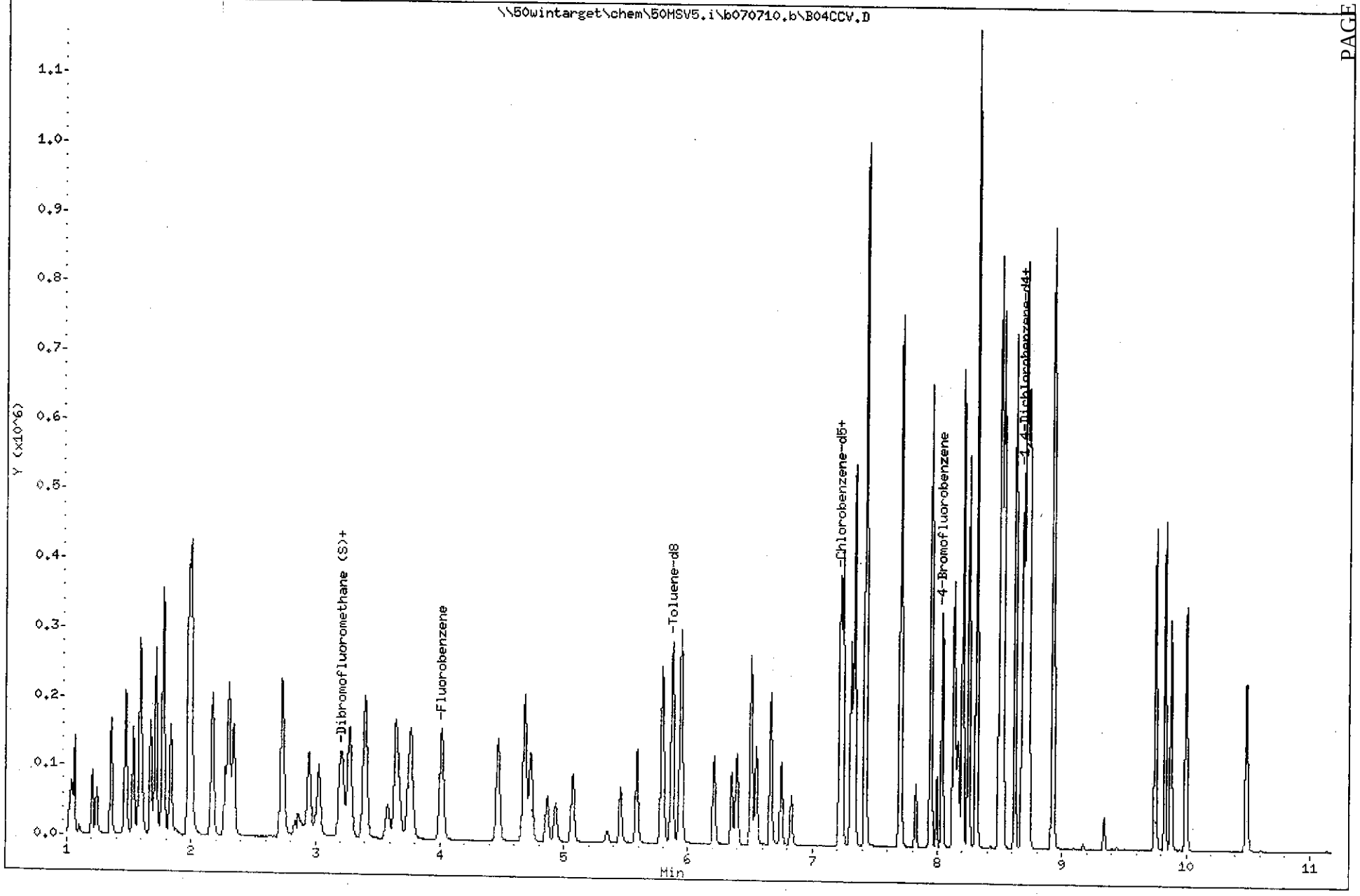
Instrument ID: 50MSV5.i Injection Date: 07-JUL-2010 15:34
Lab File ID: B04CCV.D Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 13:42 18:03
Lab Sample ID: ccv 34B-158/204 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
84 1,4-Dichlorobenzene	1.61210	1.62945	1.62945	0.100	1.07597	20.00000	Averaged
85 1,2-Dichlorobenzene	1.44194	1.46046	1.46046	0.100	1.28416	20.00000	Averaged
86 n-Butylbenzene	2.61747	2.83994	2.83994	0.100	8.49955	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	0.08084	0.08068	0.08068	0.100	-0.20741	20.00000	Averaged
88 1,2,4-Trichlorobenzene	0.95763	1.05796	1.05796	0.100	10.47692	20.00000	Averaged
89 Hexachlorobutadiene	0.63019	0.67740	0.67740	0.100	7.49059	20.00000	Averaged
90 Naphthalene	1.81676	1.96939	1.96939	0.100	8.40117	20.00000	Averaged
91 1,2,3-Trichlorobenzene	0.86110	0.92917	0.92917	0.100	7.90486	20.00000	Averaged
92 2,methyl-naphthalene	50.00000	49.22784	1.11870	0.100	-1.54432	0.000e+000	Linear

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B04CCV.D
Date : 07-JUL-2010 15:34
Client ID: ccv
Sample Info: ccv 34B-158/204
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B04CCV.D

Date : 07-JUL-2010 15:34

Client ID: ccv

Instrument: 50MSV5.i

Sample Info: ccv 34B-158/204

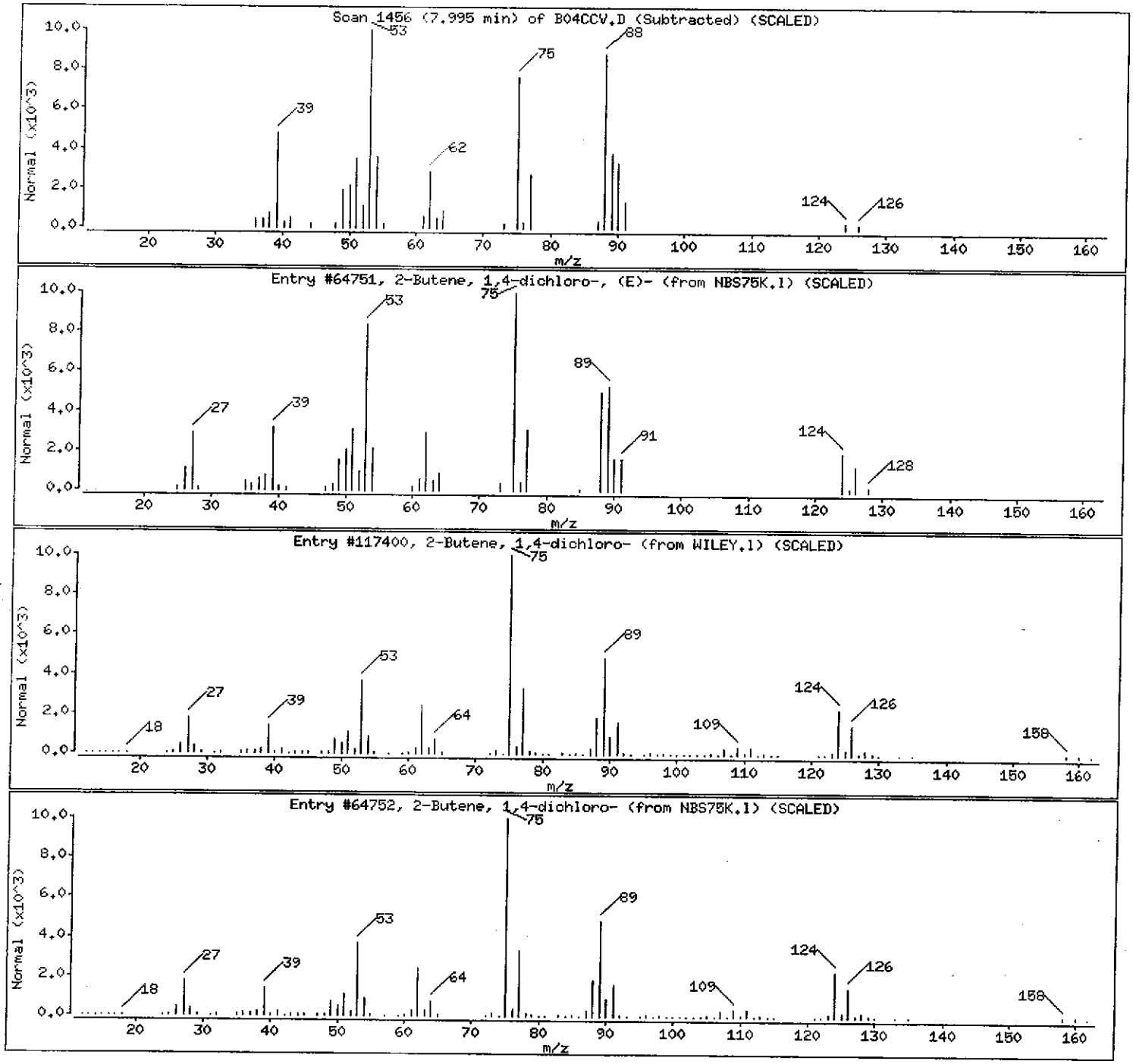
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 1,4-dichloro-, (E)-	110-57-6	NBS75K.l	64751	81	C4H6Cl2	124
2-Butene, 1,4-dichloro-	764-41-0	WILEY.l	117400	72	C4H6Cl2	124
2-Butene, 1,4-dichloro-	764-41-0	NBS75K.l	64752	72	C4H6Cl2	124



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B05.D
Lab Smp Id: 100ppb Client Smp ID: 100ppb
Inj Date : 07-JUL-2010 16:11
Operator : rsr Inst ID: 50MSV5.i
Smp Info : 100ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51 Cal File: B08.D
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	146615	100.000	102
2 Chloromethane	50	1.033	1.033	(0.258)	202692	100.000	98.2
3 Vinyl Chloride	62	1.059	1.059	(0.264)	132847	100.000	100
4 Bromomethane	94	1.195	1.200	(0.298)	81904	100.000	106
139 Methyl Acetate	43	1.776	1.776	(0.443)	67150	100.000	99.4
5 Chloroethane	64	1.237	1.242	(0.309)	65831	100.000	99.4
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	180744	100.000	101
7 Diethyl ether	74	1.472	1.472	(0.367)	30347	100.000	99.0
8 Acrolein	56	1.535	1.535	(0.383)	179518	2000.00	2120
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	76740	100.000	100
10 1,1,2trichlorotrifluoroethane	101	1.582	1.587	(0.395)	88248	100.000	98.3
11 Acetone	43	1.608	1.608	(0.401)	71254	500.000	527
12 Iodomethane	142	1.671	1.676	(0.417)	303007	200.000	197
13 Carbon Disulfide	76	1.713	1.713	(0.427)	457482	200.000	201
142 Acetonitrile	39	1.770	1.770	(0.442)	217568	2000.00	2040
14 allyl chloride	41	1.770	1.770	(0.442)	351473	200.000	201
15 Methylene Chloride	84	1.833	1.838	(0.457)	75263	100.000	96.4
16 Acrylonitrile	53	1.974	1.974	(0.493)	413638	2000.00	2020
17 tert-Butyl Alcohol	59	1.886	1.880	(0.470)	9642	200.000	218 (QM)
18 1,2-Dichloroethene (trans)	96	1.995	1.995	(0.498)	84243	100.000	103
19 Methyl-tert-butyl ether	73	1.995	1.995	(0.498)	318747	200.000	198
20 n-Hexane	57	2.168	2.168	(0.541)	164939	100.000	97.9
21 1,1-Dichloroethane	63	2.273	2.273	(0.567)	170873	100.000	100

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.304	2.304	(0.575)	592716	400.000	396
	143 Chloroprene	53	2.341	2.341	(0.584)	178931	100.000	101
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	125239	100.000	101
	25 1,2 Dichloroethene (cis)	96	2.728	2.728	(0.680)	90084	100.000	97.6
	26 2-Butanone	43	2.743	2.743	(0.684)	145210	500.000	470
	27 Propionitrile	54	2.801	2.801	(0.699)	7926	100.000	105(QM)
	144 Methacrylonitrile	41	2.942	2.942	(0.734)	54453	500.000	562
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	99815	100.000	100
	29 Bromochloromethane	49	2.947	2.947	(0.735)	91096	100.000	101
	30 Tetrahydrofuran	42	3.000	3.000	(0.748)	22042	100.000	27.5
	31 Chloroform	83	3.026	3.026	(0.755)	155365	100.000	103
$	32 Dibromofluoromethane (S)	113	3.193	3.193	(0.796)	45906	50.0000	49.7
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.802)	148109	100.000	97.4
	35 Carbon Tetrachloride	117	3.397	3.397	(0.847)	140268	100.000	98.5
	36 1,1-Dichloropropene	75	3.397	3.397	(0.847)	117741	100.000	98.5
	37 Isobutyl alcohol	43	3.758	3.763	(0.937)	94715	100.000	99.1
	140 Cyclohexane	56	3.272	3.272	(0.816)	183529	100.000	99.0
	38 Benzene	78	3.643	3.643	(0.909)	317912	100.000	100
	39 1,2-Dichloroethane	62	3.674	3.669	(0.917)	113383	100.000	104
	138 2,2,4-Trimethylpentane	57	3.758	3.758	(0.937)	482156	100.000	104
	141 Methylcyclohexane	55	4.684	4.684	(1.168)	180475	100.000	101
*	40 Fluorobenzene	96	4.009	4.009	(1.000)	185546	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.113)	104369	100.000	102
	42 1,2-Dichloropropane	63	4.731	4.736	(1.180)	109373	100.000	99.2
	43 Dibromomethane	93	4.867	4.867	(1.214)	49777	100.000	101
	44 Methyl methacrylate	69	4.935	4.930	(1.231)	38433	100.000	100
	45 Bromodichloromethane	83	5.071	5.071	(1.265)	119605	100.000	100
	46 2-Chloroethyl vinyl ether	63	5.458	5.458	(0.756)	66869	200.000	182
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.775)	136440	100.000	103
	48 4-Methyl-2-Pentanone	43	5.793	5.793	(0.803)	400112	500.000	489
$	49 Toluene-d8	98	5.871	5.871	(0.814)	190202	50.0000	49.8
	50 Toluene	91	5.944	5.944	(0.824)	418408	100.000	97.6
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.861)	117799	100.000	105
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	86684	100.000	106
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	60453	100.000	96.0
	54 Tetrachloroethene	166	6.509	6.509	(0.902)	147931	100.000	100
	55 1,3-Dichloropropane	76	6.551	6.551	(0.908)	119542	100.000	98.2
	56 2-Hexanone	43	6.666	6.666	(0.924)	270610	500.000	478
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	105278	100.000	102
	58 1,2-Dibromoethane	107	6.833	6.833	(0.947)	81530	100.000	102
*	59 Chlorobenzene-d5	117	7.215	7.215	(1.000)	160434	50.0000	
	60 Chlorobenzene	112	7.236	7.236	(1.003)	329567	100.000	98.2
	61 1,1,1,2-Tetrachloroethane	131	7.309	7.309	(1.013)	124140	100.000	98.6
	62 Ethylbenzene	106	7.335	7.335	(1.017)	180449	100.000	99.1
	63 m&p-Xylene	106	7.424	7.424	(1.029)	433492	200.000	197
	65 o-Xylene	106	7.696	7.696	(1.067)	214639	100.000	98.8
	66 Styrene	104	7.707	7.707	(1.068)	341230	100.000	97.6
	67 Bromoform	173	7.822	7.827	(0.897)	65354	100.000	90.5
	68 Isopropylbenzene	105	7.947	7.942	(1.101)	578042	100.000	99.0
	69 trans-1,4-Dichloro-2-butene	53	8.172	8.172	(1.133)	33845	100.000	108
S	70 4-Bromofluorobenzene	95	8.036	8.036	(1.114)	75728	50.0000	50.9
	71 Bromobenzene	77	8.125	8.125	(1.126)	187409	100.000	96.6
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.934)	97314	100.000	96.5
	73 1,2,3-Trichloropropane	75	8.162	8.162	(0.936)	106048	100.000	99.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.198	8.198	(0.941)	676160	100.000	97.3
75 2-Chlorotoluene	91	8.246	8.246	(0.946)	381929	100.000	96.1
76 4-Chlorotoluene	126	8.314	8.314	(0.954)	156911	100.000	95.7
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	484357	100.000	98.0
78 tert-Butylbenzene	119	8.497	8.497	(0.975)	620680	100.000	97.3
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	495586	100.000	95.4
80 sec-Butylbenzene	105	8.622	8.617	(0.989)	673933	100.000	96.6
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	296688	100.000	94.5
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	100647	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	629929	100.000	97.6
84 1,4-Dichlorobenzene	146	8.727	8.727	(1.001)	303134	100.000	93.4
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	273162	100.000	94.1
86 n-Butylbenzene	91	8.920	8.920	(1.023)	516580	100.000	98.0
87 1,2 Dibromo-3-chloropropane	155	9.339	9.339	(1.071)	16367	100.000	100
88 1,2,4-Trichlorobenzene	180	9.752	9.752	(1.119)	192957	100.000	100
89 Hexachlorobutadiene	225	9.830	9.830	(1.128)	122563	100.000	96.6
90 Naphthalene	128	9.883	9.877	(1.134)	373325	100.000	102
91 1,2,3-Trichlorobenzene	180	10.003	10.003	(1.148)	171091	100.000	98.7
92 2.methyl-naphthalene	142	10.489	10.489	(1.203)	229078	100.000	89.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B05.D
Lab Smp Id: 100ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: 100ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	185546	9.83
59 Chlorobenzene-d5	150139	75070	300278	160434	6.86
82 1,4-Dichlorobenze	91936	45968	183872	100647	9.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.00
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 100ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 100ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	102	
74-87-3	Chloromethane	98.2	
75-01-4	Vinyl Chloride	100	
74-83-9	Bromomethane	106	
79-20-9	Methyl Acetate	99.4	
75-00-3	Chloroethane	99.4	
75-69-4	Trichlorofluoromethane	101	
60-29-7	Diethyl ether	99.0	
107-02-8	Acrolein	2120	
75-35-4	1,1-Dichloroethene	100	
76-13-1	1,1,2trichlorotrifluoroethan	98.3	
67-64-1	Acetone	527	
	Iodomethane	197	
75-15-0	Carbon Disulfide	201	
75-05-8	Acetonitrile	2040	
107-05-1	allyl chloride	201	
75-09-2	Methylene Chloride	96.4	
107-13-1	Acrylonitrile	2020	
75-65-0	tert-Butyl Alcohol	218	
156-60-5	1,2-Dichloroethene (trans)	103	
1634-04-4	Methyl-tert-butyl ether	198	
	n-Hexane	97.9	
75-34-3	1,1-Dichloroethane	100	
108-05-4	Vinyl Acetate	396	
126-99-8	Chloroprene	101	
594-20-7	2,2-Dichloropropane	101	
156-59-2	1,2-Dichloroethene (cis)	97.6	
78-93-3	2-Butanone	470	
107-12-0	Propionitrile	105	
126-98-7	Methacrylonitrile	562	
354-23-4	1,2-dichlorotrifluoroethane	100	
74-97-5	Bromochloromethane	101	
	Tetrahydrofuran	27.5	
67-66-3	Chloroform	103	
71-55-6	1,1,1-Trichloroethane	97.4	
56-23-5	Carbon Tetrachloride	98.5	
563-58-6	1,1-Dichloropropene	98.5	
78-83-1	Isobutyl alcohol	99.1	
110-82-7	Cyclohexane	99.0	
71-43-2	Benzene	100	
107-06-2	1,2-Dichloroethane	104	
540-84-1	2,2,4-Trimethylpentane	104	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 100ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 100ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	101	
79-01-6	Trichloroethene	102	
78-87-5	1,2-Dichloropropane	99.2	
74-95-3	Dibromomethane	101	
80-62-6	Methyl methacrylate	100	
75-27-4	Bromodichloromethane	100	
110-75-8	2-Chloroethyl vinyl ether	182	
10061-01-5	cis-1,3-Dichloropropene	103	
108-10-1	4-Methyl-2-Pentanone	489	
108-88-3	Toluene	97.6	
10061-02-6	trans-1,3-Dichloropropene	105	
	Ethyl Methacrylate	106	
79-00-5	1,1,2-Trichloroethane	96.0	
127-18-4	Tetrachloroethene	100	
142-28-9	1,3-Dichloropropane	98.2	
591-78-6	2-Hexanone	478	
124-48-1	Dibromochloromethane	102	
106-93-4	1,2-Dibromoethane	102	
108-90-7	Chlorobenzene	98.2	
630-20-6	1,1,1,2-Tetrachloroethane	98.6	
100-41-4	Ethylbenzene	99.1	
7816-60-0	m&p-Xylene	197	
95-47-6	o-Xylene	98.8	
100-42-5	Styrene	97.6	
75-25-2	Bromoform	90.5	
98-82-8	Isopropylbenzene	99.0	
	trans-1,4-Dichloro-2-butene	108	
108-86-1	Bromobenzene	96.6	
79-34-5	1,1,2,2-Tetrachloroethane	96.5	
96-18-4	1,2,3-Trichloropropane	99.9	
103-65-1	n-Propylbenzene	97.3	
95-49-8	2-Chlorotoluene	96.1	
106-43-4	4-Chlorotoluene	95.7	
108-67-8	1,3,5-Trimethylbenzene	98.0	
98-06-6	tert-Butylbenzene	97.3	
95-63-6	1,2,4-Trimethylbenzene	95.4	
135-98-8	sec-Butylbenzene	96.6	
541-73-1	1,3-Dichlorobenzene	94.5	
99-87-6	p-Isopropyltoluene	97.6	
106-46-7	1,4-Dichlorobenzene	93.4	
95-50-1	1,2-Dichlorobenzene	94.1	
104-51-8	n-Butylbenzene	98.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 100ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

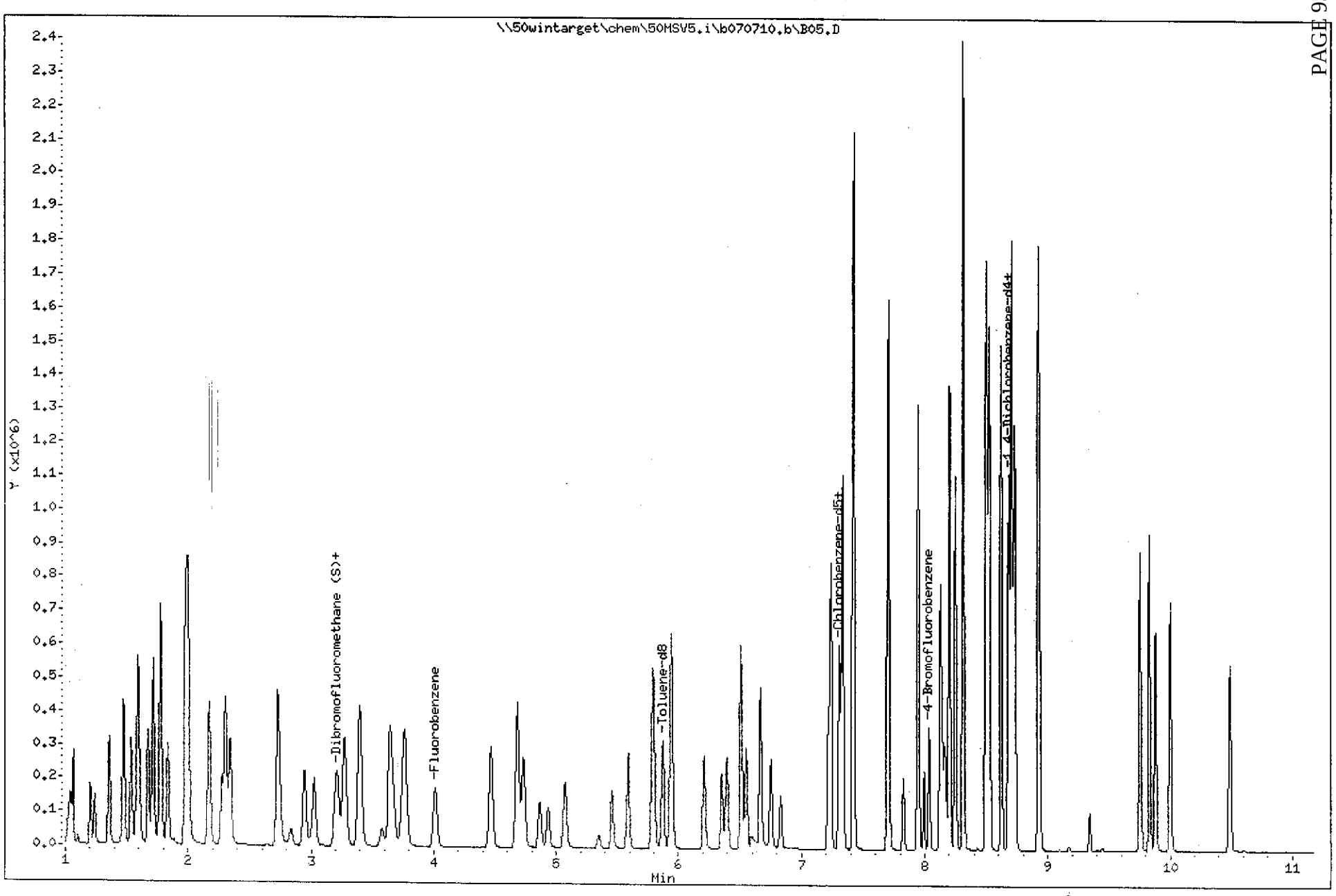
Client SDG: b070710.b
Client Smp ID: 100ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	100	
120-82-1	1,2,4-Trichlorobenzene	100	
87-68-3	Hexachlorobutadiene	96.6	
91-20-3	Naphthalene	102	
87-61-6	1,2,3-Trichlorobenzene	98.7	
	2,methyl-naphthalene	89.1	
1868-53-7	Dibromofluoromethane (S)	49.7	
2037-26-5	Toluene-d8	49.8	
460-00-4	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B05.D
Date : 07-JUL-2010 16:11
Client ID: 100ppb
Sample Info: 100ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B05.D

Date : 07-JUL-2010 16:11

Client ID: 100ppb

Instrument: 50MSV5.i

Sample Info: 100ppb

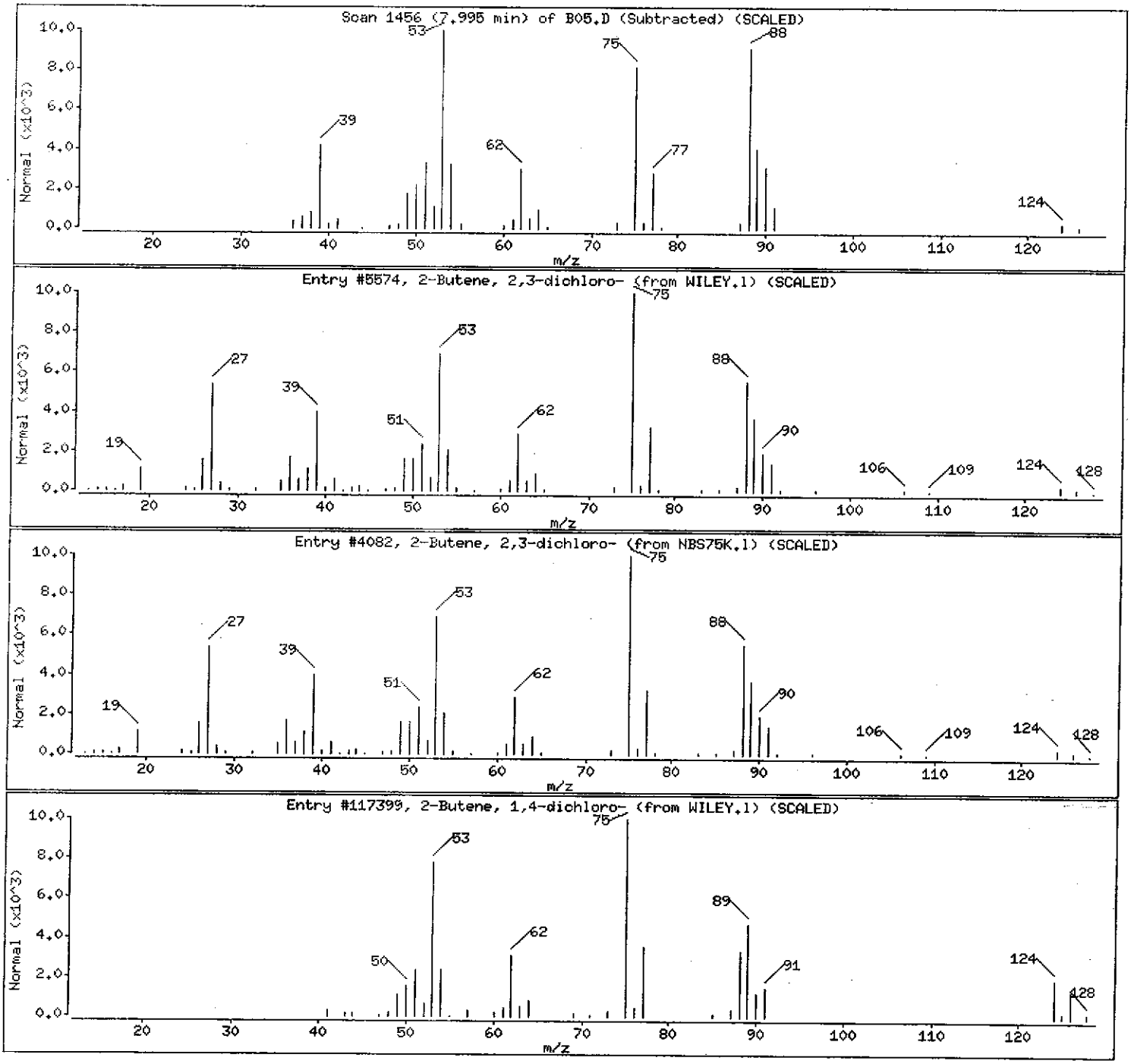
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	64	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	NBS75K.l	4082	64	C4H6Cl2	124
2-Butene, 1,4-dichloro-	764-41-0	WILEY.l	117399	56	C4H6Cl2	124



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B06.D
Lab Smp Id: 150ppb Client Smp ID: 150ppb
Inj Date : 07-JUL-2010 16:49
Operator : rsr Inst ID: 50MSV5.i
Smp Info : 150ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51 Cal File: B08.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	214896	150.000	154
2 Chloromethane	50	1.033	1.033	(0.257)	317999	150.000	158
3 Vinyl Chloride	62	1.059	1.059	(0.264)	202503	150.000	157
4 Bromomethane	94	1.195	1.200	(0.298)	123633	150.000	164
139 Methyl Acetate	43	1.776	1.776	(0.442)	97729	150.000	149
5 Chloroethane	64	1.237	1.242	(0.308)	98470	150.000	153
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	268242	150.000	156
7 Diethyl ether	74	1.467	1.472	(0.366)	48114	150.000	161
8 Acrolein	56	1.535	1.535	(0.382)	256304	3000.00	3100
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	119092	150.000	160
10 1,1,2trichlorotrifluoroethane	101	1.582	1.587	(0.394)	137081	150.000	157
11 Acetone	43	1.608	1.608	(0.401)	105684	750.000	824
12 Iodomethane	142	1.671	1.676	(0.416)	470082	300.000	313
13 Carbon Disulfide	76	1.713	1.713	(0.427)	713742	300.000	322
142 Acetonitrile	39	1.770	1.770	(0.441)	327487	3000.00	3160
14 allyl chloride	41	1.770	1.770	(0.441)	529547	300.000	311
15 Methylene Chloride	84	1.833	1.838	(0.457)	115650	150.000	156
16 Acrylonitrile	53	1.974	1.974	(0.492)	611550	3000.00	3070
17 tert-Butyl Alcohol	59	1.886	1.880	(0.470)	14006	300.000	326(Q)
18 1,2-Dichloroethene (trans)	96	1.995	1.995	(0.497)	129166	150.000	162
19 Methyl-tert-butyl ether	73	1.995	1.995	(0.497)	493201	300.000	314
20 n-Hexane	57	2.168	2.168	(0.540)	259643	150.000	158
21 1,1-Dichloroethane	63	2.273	2.273	(0.566)	268582	150.000	162

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.304	2.304	(0.574)	925024	600.000	634
	143 Chloroprene	53	2.341	2.341	(0.583)	282407	150.000	163
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	197514	150.000	164
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	139486	150.000	155
	26 2-Butanone	43	2.743	2.743	(0.683)	224543	750.000	747
	27 Propionitrile	54	2.806	2.801	(0.699)	12514	150.000	170(M)
	144 Methacrylonitrile	41	2.942	2.942	(0.733)	81377	750.000	863
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	160181	150.000	166
	29 Bromochloromethane	49	2.947	2.947	(0.734)	138220	150.000	158
	30 Tetrahydrofuran	42	3.000	3.000	(0.747)	30547	150.000	39.2
	31 Chloroform	83	3.026	3.026	(0.754)	240439	150.000	164
$	32 Dibromofluoromethane (S)	113	3.188	3.193	(0.794)	44537	50.0000	49.5
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.801)	233672	150.000	158
	35 Carbon Tetrachloride	117	3.397	3.397	(0.846)	222887	150.000	161
	36 1,1-Dichloropropene	75	3.397	3.397	(0.846)	184527	150.000	158
	37 Isobutyl alcohol	43	3.758	3.763	(0.936)	147255	150.000	158
	140 Cyclohexane	56	3.272	3.272	(0.815)	291752	150.000	162
	38 Benzene	78	3.643	3.643	(0.908)	487216	150.000	157
	39 1,2-Dichloroethane	62	3.669	3.669	(0.914)	174234	150.000	164
	138 2,2,4-Trimethylpentane	57	3.758	3.758	(0.936)	745592	150.000	165
	141 Methylcyclohexane	55	4.684	4.684	(1.167)	286436	150.000	165
*	40 Fluorobenzene	96	4.014	4.009	(1.000)	180677	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.112)	165606	150.000	167
	42 1,2-Dichloropropane	63	4.731	4.736	(1.178)	171646	150.000	160
	43 Dibromomethane	93	4.867	4.867	(1.212)	77896	150.000	162
	44 Methyl methacrylate	69	4.935	4.930	(1.229)	62330	150.000	168
	45 Bromodichloromethane	83	5.071	5.071	(1.263)	195673	150.000	169
	46 2-Chloroethyl vinyl ether	63	5.458	5.458	(0.756)	111537	300.000	291
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.774)	217297	150.000	163
	48 4-Methyl-2-Pentanone	43	5.793	5.793	(0.802)	631990	750.000	767
$	49 Toluene-d8	98	5.871	5.871	(0.813)	188339	50.0000	49.0
	50 Toluene	91	5.944	5.944	(0.823)	662209	150.000	153
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.860)	188368	150.000	167
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	137824	150.000	167
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	94822	150.000	148
	54 Tetrachloroethene	166	6.509	6.509	(0.901)	226463	150.000	152
	55 1,3-Dichloropropane	76	6.551	6.551	(0.907)	191130	150.000	156
	56 2-Hexanone	43	6.666	6.666	(0.923)	457165	750.000	802
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	166485	150.000	161
	58 1,2-Dibromoethane	107	6.833	6.833	(0.946)	130149	150.000	162
*	59 Chlorobenzene-d5	117	7.220	7.215	(1.000)	161592	50.0000	
	60 Chlorobenzene	112	7.241	7.236	(1.003)	527443	150.000	156
	61 1,1,1,2-Tetrachloroethane	131	7.309	7.309	(1.012)	201684	150.000	159
	62 Ethylbenzene	106	7.335	7.335	(1.016)	296209	150.000	162
	63 m&p-Xylene	106	7.424	7.424	(1.028)	708371	300.000	319
	65 o-Xylene	106	7.696	7.696	(1.066)	352718	150.000	161
	66 Styrene	104	7.712	7.707	(1.068)	567409	150.000	161
	67 Bromoform	173	7.827	7.827	(0.898)	106178	150.000	145
	68 Isopropylbenzene	105	7.947	7.942	(1.101)	937405	150.000	159
	69 trans-1,4-Dichloro-2-butene	53	8.172	8.172	(1.132)	54219	150.000	171
$	70 4-Bromofluorobenzene	95	8.036	8.036	(1.113)	75790	50.0000	50.5
	71 Bromobenzene	77	8.125	8.125	(1.125)	306868	150.000	157
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.934)	155162	150.000	156
	73 1,2,3-Trichloropropane	75	8.157	8.162	(0.936)	164803	150.000	158

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.204	8.198	(0.941)	1078720	150.000	158
75 2-Chlorotoluene	91	8.246	8.246	(0.946)	605023	150.000	155
76 4-Chlorotoluene	126	8.314	8.314	(0.954)	254328	150.000	158
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	776499	150.000	160
78 tert-Butylbenzene	119	8.497	8.497	(0.975)	984593	150.000	157
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	795582	150.000	156
80 sec-Butylbenzene	105	8.622	8.617	(0.989)	1078863	150.000	157
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	473064	150.000	153
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	99052	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	1002236	150.000	158
84 1,4-Dichlorobenzene	146	8.732	8.727	(1.002)	480560	150.000	150
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	432603	150.000	151
86 n-Butylbenzene	91	8.920	8.920	(1.023)	827225	150.000	160
87 1,2-Dibromo-3-chloropropane	155	9.339	9.339	(1.071)	25869	150.000	162
88 1,2,4-Trichlorobenzene	180	9.757	9.752	(1.119)	280900	150.000	148
89 Hexachlorobutadiene	225	9.836	9.830	(1.128)	193782	150.000	155
90 Naphthalene	128	9.883	9.877	(1.134)	582311	150.000	162
91 1,2,3-Trichlorobenzene	180	10.008	10.003	(1.148)	279593	150.000	164
92 2,methyl-naphthalene	142	10.495	10.489	(1.204)	389733	150.000	146

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B06.D
Lab Smp Id: 150ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: 150ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	180677	6.95
59 Chlorobenzene-d5	150139	75070	300278	161592	7.63
82 1,4-Dichlorobenze	91936	45968	183872	99052	7.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.13
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.07
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	154	
74-87-3	Chloromethane	158	
75-01-4	Vinyl Chloride	157	
74-83-9	Bromomethane	164	
79-20-9	Methyl Acetate	149	
75-00-3	Chloroethane	153	
75-69-4	Trichlorofluoromethane	156	
60-29-7	Diethyl ether	161	
107-02-8	Acrolein	3100	
75-35-4	1,1-Dichloroethene	160	
76-13-1	1,1,2trichlorotrifluoroethan	157	
67-64-1	Acetone	824	
	Iodomethane	313	
75-15-0	Carbon Disulfide	322	
75-05-8	Acetonitrile	3160	
107-05-1	allyl chloride	311	
75-09-2	Methylene Chloride	156	
107-13-1	Acrylonitrile	3070	
75-65-0	tert-Butyl Alcohol	326	
156-60-5	1,2-Dichloroethene (trans)	162	
1634-04-4	Methyl-tert-butyl ether	314	
	n-Hexane	158	
75-34-3	1,1-Dichloroethane	162	
108-05-4	Vinyl Acetate	634	
126-99-8	Chloroprene	163	
594-20-7	2,2-Dichloropropane	164	
156-59-2	1,2-Dichloroethene (cis)	155	
78-93-3	2-Butanone	747	
107-12-0	Propionitrile	170	
126-98-7	Methacrylonitrile	863	
354-23-4	1,2-dichlorotrifluoroethane	166	
74-97-5	Bromochloromethane	158	
	Tetrahydrofuran	39.2	
67-66-3	Chloroform	164	
71-55-6	1,1,1-Trichloroethane	158	
56-23-5	Carbon Tetrachloride	161	
563-58-6	1,1-Dichloropropene	158	
78-83-1	Isobutyl alcohol	158	
110-82-7	Cyclohexane	162	
71-43-2	Benzene	157	
107-06-2	1,2-Dichloroethane	164	
540-84-1	2,2,4-Trimethylpentane	165	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	165	
79-01-6	Trichloroethene	167	
78-87-5	1,2-Dichloropropane	160	
74-95-3	Dibromomethane	162	
80-62-6	Methyl methacrylate	168	
75-27-4	Bromodichloromethane	169	
110-75-8	2-Chloroethyl vinyl ether	291	
10061-01-5	cis-1,3-Dichloropropene	163	
108-10-1	4-Methyl-2-Pentanone	767	
108-88-3	Toluene	153	
10061-02-6	trans-1,3-Dichloropropene	167	
	Ethyl Methacrylate	167	
79-00-5	1,1,2-Trichloroethane	148	
127-18-4	Tetrachloroethene	152	
142-28-9	1,3-Dichloropropane	156	
591-78-6	2-Hexanone	802	
124-48-1	Dibromochloromethane	161	
106-93-4	1,2-Dibromoethane	162	
108-90-7	Chlorobenzene	156	
630-20-6	1,1,1,2-Tetrachloroethane	159	
100-41-4	Ethylbenzene	162	
7816-60-0	m&p-Xylene	319	
95-47-6	o-Xylene	161	
100-42-5	Styrene	161	
75-25-2	Bromoform	145	
98-82-8	Isopropylbenzene	159	
	trans-1,4-Dichloro-2-butene	171	
108-86-1	Bromobenzene	157	
79-34-5	1,1,2,2-Tetrachloroethane	156	
96-18-4	1,2,3-Trichloropropane	158	
103-65-1	n-Propylbenzene	158	
95-49-8	2-Chlorotoluene	155	
106-43-4	4-Chlorotoluene	158	
108-67-8	1,3,5-Trimethylbenzene	160	
98-06-6	tert-Butylbenzene	157	
95-63-6	1,2,4-Trimethylbenzene	156	
135-98-8	sec-Butylbenzene	157	
541-73-1	1,3-Dichlorobenzene	153	
99-87-6	p-Isopropyltoluene	158	
106-46-7	1,4-Dichlorobenzene	150	
95-50-1	1,2-Dichlorobenzene	151	
104-51-8	n-Butylbenzene	160	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

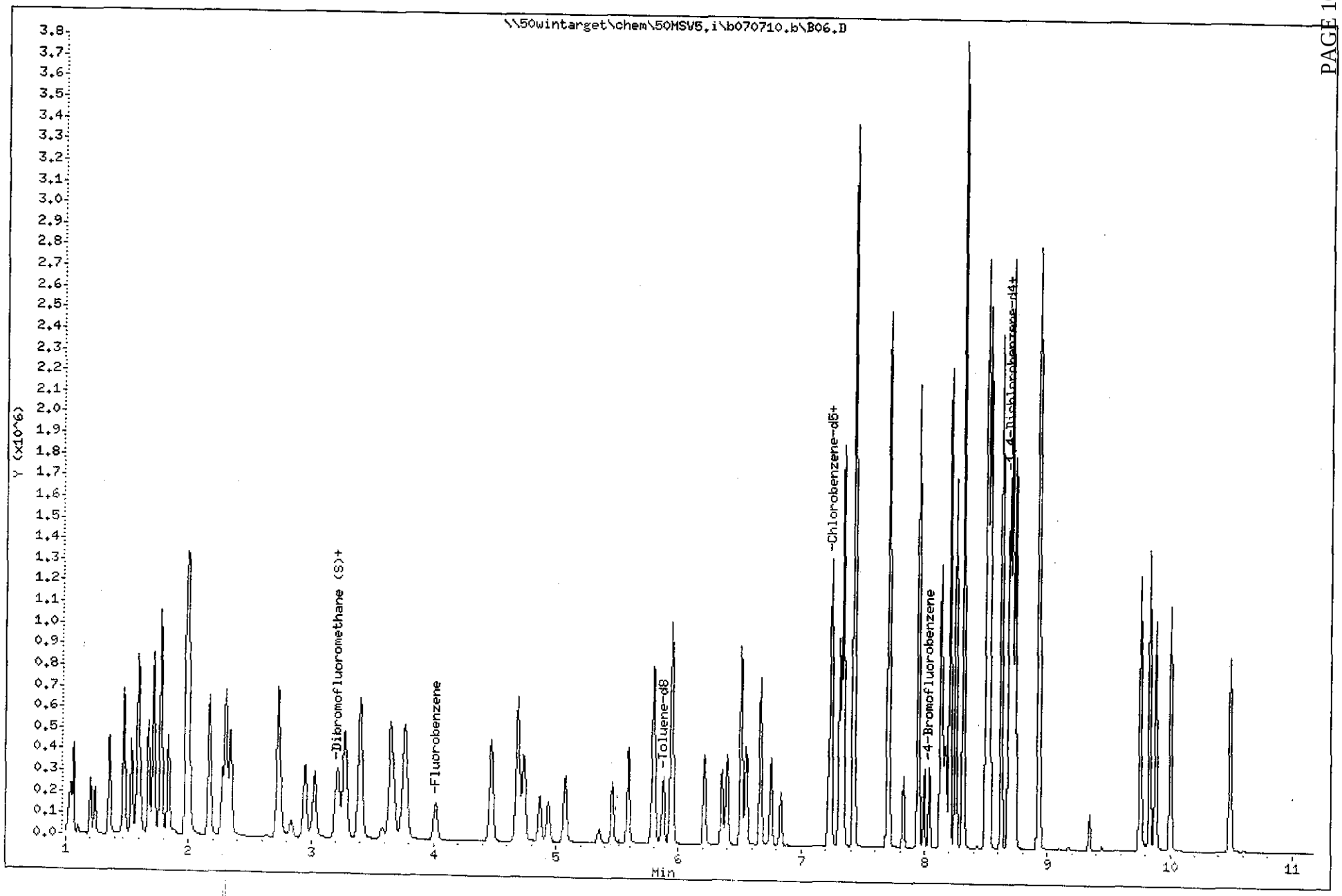
Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	162	
120-82-1	1,2,4-Trichlorobenzene	148	
87-68-3	Hexachlorobutadiene	155	
91-20-3	Naphthalene	162	
87-61-6	1,2,3-Trichlorobenzene	164	
	2,methyl-naphthalene	146	
1868-53-7	Dibromofluoromethane (S)	49.5	
2037-26-5	Toluene-d8	49.0	
460-00-4	4-Bromofluorobenzene	50.5	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B06.D
Date : 07-JUL-2010 16:49
Client ID: 150ppb
Sample Info: 150ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B06.D

Date : 07-JUL-2010 16:49

Client ID: 150ppb

Instrument: 50MSV5.i

Sample Info: 150ppb

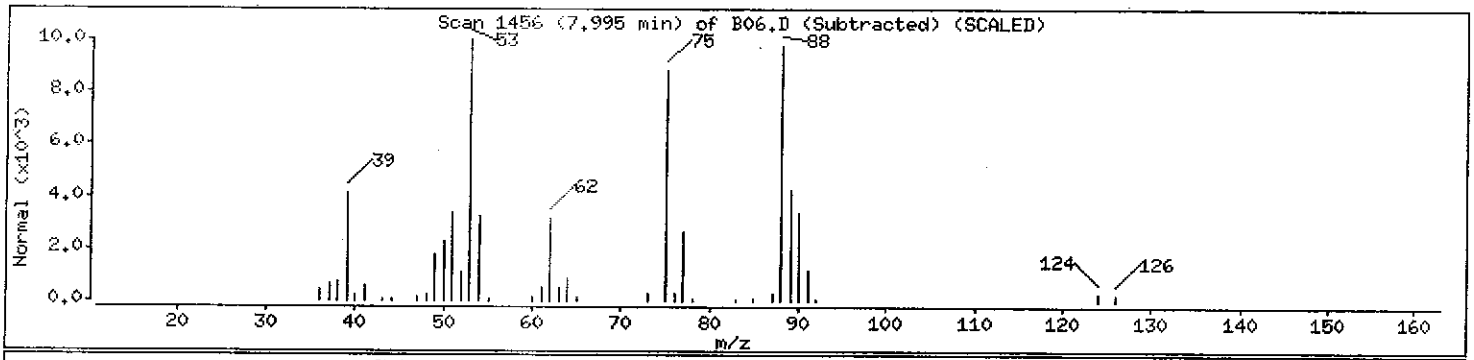
Purge Volume: 5.0

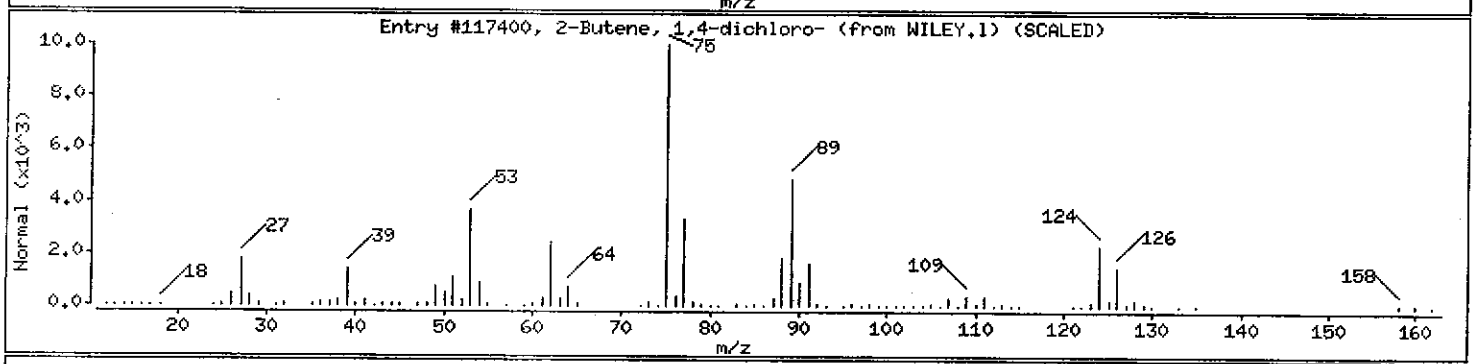
Operator: rsr

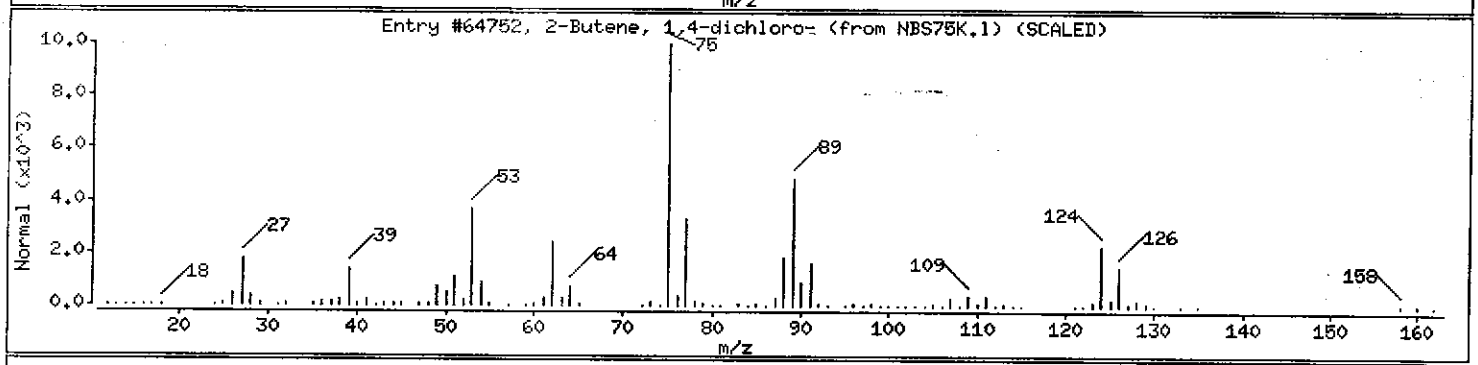
Column phase: DB-624

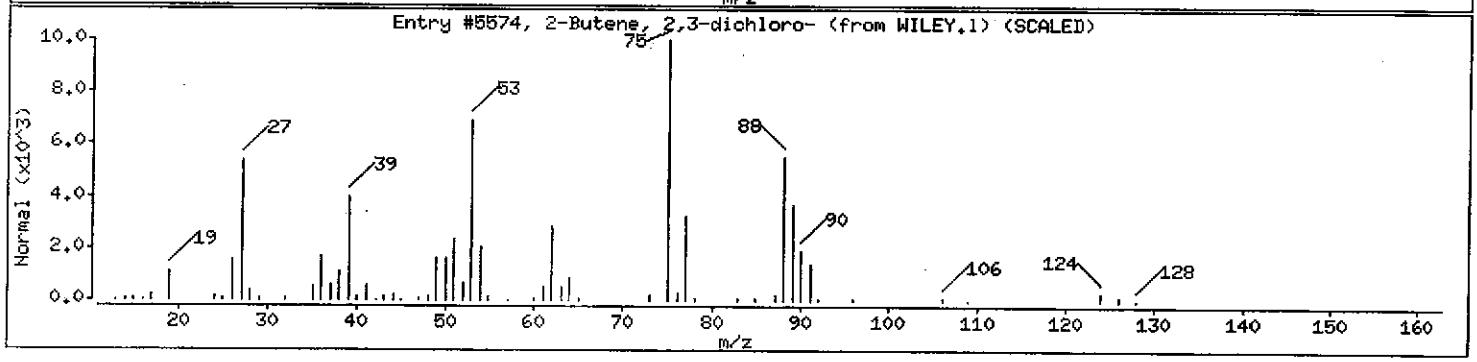
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 1,4-dichloro-	764-41-0	WILEY.l	117400	72	C4H6Cl2	124
2-Butene, 1,4-dichloro-	764-41-0	NBS75K.l	64752	72	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	64	C4H6Cl2	124









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B07.D
Lab Smp Id: 200ppb
Client Smp ID: 200ppb
Inj Date : 07-JUL-2010 17:26
Operator : rsr
Inst ID: 50MSV5.i
Smp Info : 200ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger
Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51
Cal File: B08.D
Als bottle: 16
Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	283609	200.000	199
2 Chloromethane	50	1.038	1.033	(0.259)	429224	200.000	209
3 Vinyl Chloride	62	1.059	1.059	(0.264)	272395	200.000	206
4 Bromomethane	94	1.190	1.200	(0.297)	160655	200.000	208
139 Methyl Acetate	43	1.776	1.776	(0.442)	120871	200.000	180
5 Chloroethane	64	1.232	1.242	(0.307)	128583	200.000	195
6 Trichlorofluoromethane	101	1.347	1.352	(0.336)	357399	200.000	204
7 Diethyl ether	74	1.467	1.472	(0.366)	61988	200.000	203
8 Acrolein	56	1.535	1.535	(0.383)	314717	4000.00	3720
9 1,1-Dichloroethene	96	1.588	1.593	(0.396)	158907	200.000	208
10 1,1,2trichlorotrifluoroethane	101	1.582	1.587	(0.394)	184363	200.000	206
11 Acetone	43	1.609	1.608	(0.401)	133901	1000.00	1030
12 Iodomethane	142	1.671	1.676	(0.416)	626321	400.000	407
13 Carbon Disulfide	76	1.713	1.713	(0.427)	962661	400.000	424
142 Acetonitrile	39	1.771	1.770	(0.441)	425005	4000.00	4000
14 allyl chloride	41	1.771	1.770	(0.441)	721891	400.000	414
15 Methylene Chloride	84	1.833	1.838	(0.457)	150520	200.000	201
16 Acrylonitrile	53	1.975	1.974	(0.492)	763845	4000.00	3750
17 tert-Butyl Alcohol	59	1.891	1.880	(0.471)	17115	400.000	389 (QM)
18 1,2-Dichloroethene (trans)	96	1.996	1.995	(0.497)	170001	200.000	208
19 Methyl-tert-butyl ether	73	1.996	1.995	(0.497)	657484	400.000	410
20 n-Hexane	57	2.168	2.168	(0.540)	349473	200.000	208
21 1,1-Dichloroethane	63	2.273	2.273	(0.566)	351600	200.000	207

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.304	2.304	(0.574)	1142678	800.000	766
	143 Chloroprene	53	2.341	2.341	(0.583)	376148	200.000	212
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	266773	200.000	217
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	183894	200.000	200
	26 2-Butanone	43	2.744	2.743	(0.683)	288230	1000.00	937
	27 Propionitrile	54	2.801	2.801	(0.698)	16155	200.000	214 (QM)
	144 Methacrylonitrile	41	2.942	2.942	(0.733)	103659	1000.00	1070
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	211090	200.000	214
	29 Bromochloromethane	49	2.948	2.947	(0.734)	182211	200.000	204
	30 Tetrahydrofuran	42	3.000	3.000	(0.747)	37245	200.000	46.6
	31 Chloroform	83	3.026	3.026	(0.754)	315598	200.000	210
$	32 Dibromofluoromethane (S)	113	3.188	3.193	(0.794)	43565	50.0000	47.4
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.801)	312133	200.000	206
	35 Carbon Tetrachloride	117	3.397	3.397	(0.846)	301879	200.000	213
	36 1,1-Dichloropropene	75	3.397	3.397	(0.846)	251160	200.000	211
	37 Isobutyl alcohol	43	3.763	3.763	(0.937)	189991	200.000	200
	140 Cyclohexane	56	3.272	3.272	(0.815)	388314	200.000	210
	38 Benzene	78	3.643	3.643	(0.908)	642497	200.000	203
	39 1,2-Dichloroethane	62	3.675	3.669	(0.915)	226348	200.000	208
	138 2,2,4-Trimethylpentane	57	3.758	3.758	(0.936)	957028	200.000	207
	141 Methylcyclohexane	55	4.684	4.684	(1.167)	386602	200.000	218
*	40 Fluorobenzene	96	4.014	4.009	(1.000)	184848	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.112)	224376	200.000	221
	42 1,2-Dichloropropane	63	4.736	4.736	(1.180)	228681	200.000	208
	43 Dibromomethane	93	4.862	4.867	(1.211)	101061	200.000	206
	44 Methyl methacrylate	69	4.935	4.930	(1.229)	84592	200.000	222
	45 Bromodichloromethane	83	5.071	5.071	(1.263)	262595	200.000	221
	46 2-Chloroethyl vinyl ether	63	5.458	5.458	(0.756)	158108	400.000	396
	145 1,4-Dioxane	88	4.925	4.940	(1.227)	1325	4000.00	4100
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.774)	294959	200.000	216
	48 4-Methyl-2-Pentanone	43	5.798	5.793	(0.803)	863826	1000.00	1020
$	49 Toluene-d8	98	5.871	5.871	(0.813)	196289	50.0000	49.9
	50 Toluene	91	5.944	5.944	(0.823)	901403	200.000	204
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.860)	255671	200.000	222
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	188145	200.000	223
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	131063	200.000	200
	54 Tetrachloroethene	166	6.509	6.509	(0.901)	343526	200.000	226
	55 1,3-Dichloropropane	76	6.551	6.551	(0.907)	256433	200.000	204
	56 2-Hexanone	43	6.671	6.666	(0.924)	621603	1000.00	1060
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	229016	200.000	216
	58 1,2-Dibromoethane	107	6.834	6.833	(0.946)	175218	200.000	213
*	59 Chlorobenzene-d5	117	7.221	7.215	(1.000)	165361	50.0000	
	60 Chlorobenzene	112	7.242	7.236	(1.003)	719206	200.000	208
	61 1,1,1,2-Tetrachloroethane	131	7.310	7.309	(1.012)	275241	200.000	212
	62 Ethylbenzene	106	7.336	7.335	(1.016)	400543	200.000	214
	63 m&p-Xylene	106	7.425	7.424	(1.028)	947874	400.000	417
	65 o-Xylene	106	7.697	7.696	(1.066)	473346	200.000	211
	66 Styrene	104	7.712	7.707	(1.068)	754877	200.000	209
	67 Bromoform	173	7.827	7.827	(0.898)	147965	200.000	196
	68 Isopropylbenzene	105	7.948	7.942	(1.101)	1268335	200.000	211
	69 trans-1,4-Dichloro-2-butene	53	8.173	8.172	(1.132)	72582	200.000	224
$	70 4 Bromofluorobenzene	95	8.037	8.036	(1.113)	76743	50.0000	50.0
	71 Bromobenzene	77	8.125	8.125	(1.125)	411094	200.000	206
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.934)	210841	200.000	208

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.162	8.162	(0.936)	224234	200.000	210
74 n-Propylbenzene	91	8.204	8.198	(0.941)	1401297	200.000	201
75 2-Chlorotoluene	91	8.251	8.246	(0.947)	808684	200.000	203
76 4-Chlorotoluene	126	8.314	8.314	(0.954)	343193	200.000	208
77 1,3,5-Trimethylbenzene	105	8.309	8.308	(0.953)	1046288	200.000	211
78 tert-Butylbenzene	119	8.497	8.497	(0.975)	1305332	200.000	204
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	1049189	200.000	201
80 sec-Butylbenzene	105	8.622	8.617	(0.989)	1441188	200.000	206
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	624930	200.000	198
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	101071	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	1329836	200.000	205
84 1,4-Dichlorobenzene	146	8.732	8.727	(1.002)	642215	200.000	197
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	577039	200.000	198
86 n-Butylbenzene	91	8.920	8.920	(1.023)	1099066	200.000	208
87 1,2-Dibromo-3-chloropropane	155	9.339	9.339	(1.071)	35873	200.000	220
88 1,2,4-Trichlorobenzene	180	9.752	9.752	(1.119)	425296	200.000	220
89 Hexachlorobutadiene	225	9.825	9.830	(1.127)	265762	200.000	209
90 Naphthalene	128	9.878	9.877	(1.133)	810479	200.000	221
91 1,2,3-Trichlorobenzene	180	9.998	10.003	(1.147)	378304	200.000	217
92 2,methyl-naphthalene	142	10.484	10.489	(1.203)	548569	200.000	198

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B07.D
Lab Smp Id: 200ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: 200ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	184848	9.42
59 Chlorobenzene-d5	150139	75070	300278	165361	10.14
82 1,4-Dichlorobenze	91936	45968	183872	101071	9.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.14
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.08
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 200ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 200ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	199	
74-87-3	Chloromethane	209	
75-01-4	Vinyl Chloride	206	
74-83-9	Bromomethane	208	
79-20-9	Methyl Acetate	180	
75-00-3	Chloroethane	195	
75-69-4	Trichlorofluoromethane	204	
60-29-7	Diethyl ether	203	
107-02-8	Acrolein	3720	
75-35-4	1,1-Dichloroethene	208	
76-13-1	1,1,2trichlorotrifluoroethan	206	
67-64-1	Acetone	1030	
	Iodomethane	407	
75-15-0	Carbon Disulfide	424	
75-05-8	Acetonitrile	4000	
107-05-1	allyl chloride	414	
75-09-2	Methylene Chloride	201	
107-13-1	Acrylonitrile	3750	
75-65-0	tert-Butyl Alcohol	389	
156-60-5	1,2-Dichloroethene (trans)	208	
1634-04-4	Methyl-tert-butyl ether	410	
	n-Hexane	208	
75-34-3	1,1-Dichloroethane	207	
108-05-4	Vinyl Acetate	766	
126-99-8	Chloroprene	212	
594-20-7	2,2-Dichloropropane	217	
156-59-2	1,2-Dichloroethene (cis)	200	
78-93-3	2-Butanone	937	
107-12-0	Propionitrile	214	
126-98-7	Methacrylonitrile	1070	
354-23-4	1,2-dichlorotrifluoroethane	214	
74-97-5	Bromochloromethane	204	
	Tetrahydrofuran	46.6	
67-66-3	Chloroform	210	
71-55-6	1,1,1-Trichloroethane	206	
56-23-5	Carbon Tetrachloride	213	
563-58-6	1,1-Dichloropropene	211	
78-83-1	Isobutyl alcohol	200	
110-82-7	Cyclohexane	210	
71-43-2	Benzene	203	
107-06-2	1,2-Dichloroethane	208	
540-84-1	2,2,4-Trimethylpentane	207	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 200ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 200ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	218	
79-01-6	Trichloroethene	221	
78-87-5	1,2-Dichloropropane	208	
74-95-3	Dibromomethane	206	
80-62-6	Methyl methacrylate	222	
75-27-4	Bromodichloromethane	221	
110-75-8	2-Chloroethyl vinyl ether	396	
	1,4-Dioxane	4100	
10061-01-5	cis-1,3-Dichloropropene	216	
108-10-1	4-Methyl-2-Pentanone	1020	
108-88-3	Toluene	204	
10061-02-6	trans-1,3-Dichloropropene	222	
	Ethyl Methacrylate	223	
79-00-5	1,1,2-Trichloroethane	200	
127-18-4	Tetrachloroethene	226	
142-28-9	1,3-Dichloropropane	204	
591-78-6	2-Hexanone	1060	
124-48-1	Dibromochloromethane	216	
106-93-4	1,2-Dibromoethane	213	
108-90-7	Chlorobenzene	208	
630-20-6	1,1,1,2-Tetrachloroethane	212	
100-41-4	Ethylbenzene	214	
7816-60-0	m&p-Xylene	417	
95-47-6	o-Xylene	211	
100-42-5	Styrene	209	
75-25-2	Bromoform	196	
98-82-8	Isopropylbenzene	211	
	trans-1,4-Dichloro-2-butene	224	
108-86-1	Bromobenzene	206	
79-34-5	1,1,2,2-Tetrachloroethane	208	
96-18-4	1,2,3-Trichloropropane	210	
103-65-1	n-Propylbenzene	201	
95-49-8	2-Chlorotoluene	203	
106-43-4	4-Chlorotoluene	208	
108-67-8	1,3,5-Trimethylbenzene	211	
98-06-6	tert-Butylbenzene	204	
95-63-6	1,2,4-Trimethylbenzene	201	
135-98-8	sec-Butylbenzene	206	
541-73-1	1,3-Dichlorobenzene	198	
99-87-6	p-Isopropyltoluene	205	
106-46-7	1,4-Dichlorobenzene	197	
95-50-1	1,2-Dichlorobenzene	198	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 200ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

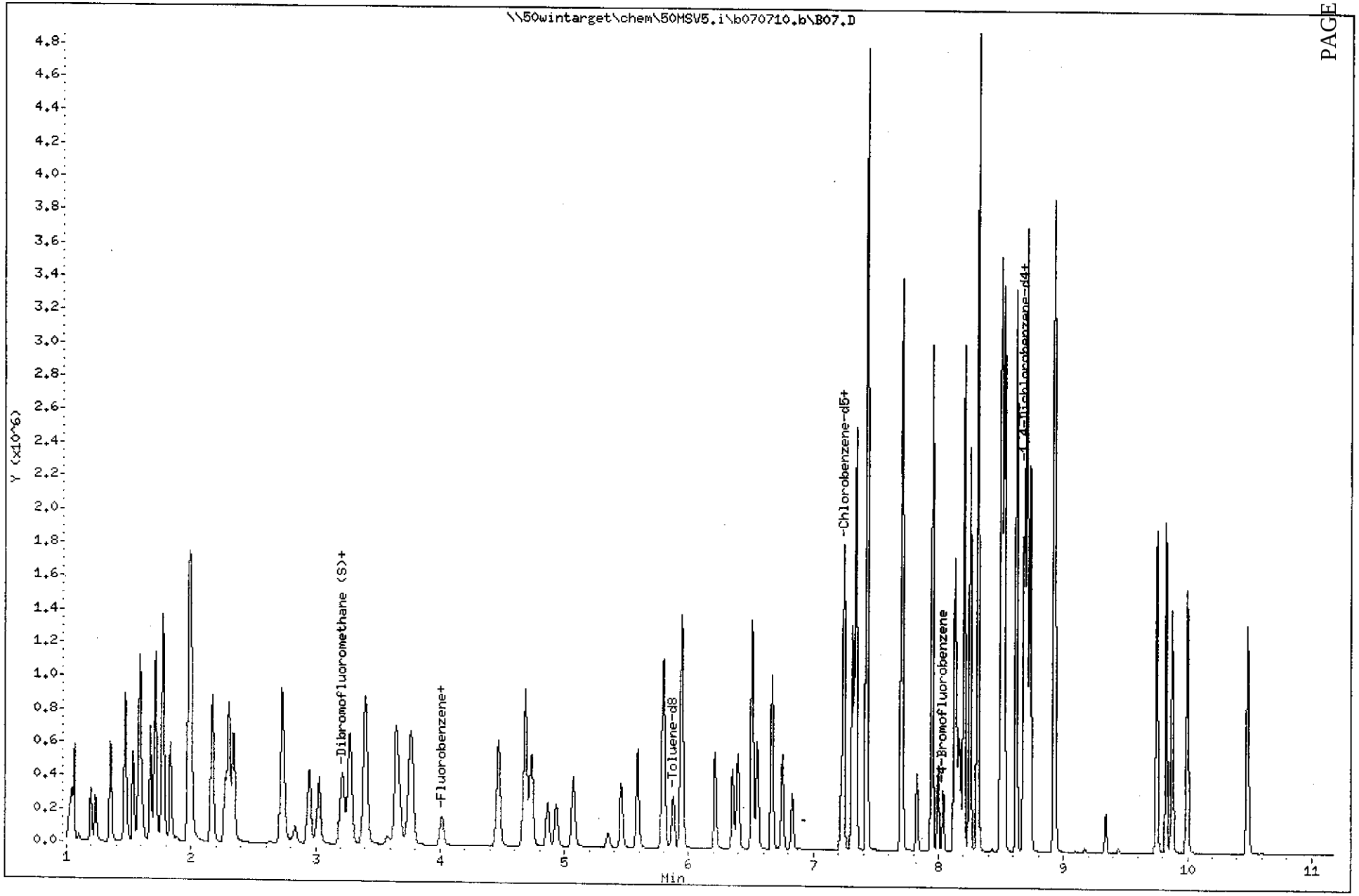
Client SDG: b070710.b
Client Smp ID: 200ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	208	
96-12-8	1,2-Dibromo-3-chloropropane	220	
120-82-1	1,2,4-Trichlorobenzene	220	
87-68-3	Hexachlorobutadiene	209	
91-20-3	Naphthalene	221	
87-61-6	1,2,3-Trichlorobenzene	217	
	2,methyl-naphthalene	198	
1868-53-7	Dibromofluoromethane (S)	47.4	
2037-26-5	Toluene-d8	49.9	
460-00-4	4-Bromofluorobenzene	50.0	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B07.D
Date : 07-JUL-2010 17:26
Client ID: 200ppb
Sample Info: 200ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B07.D

Date : 07-JUL-2010 17:26

Client ID: 200ppb

Instrument: 50MSV5.i

Sample Info: 200ppb

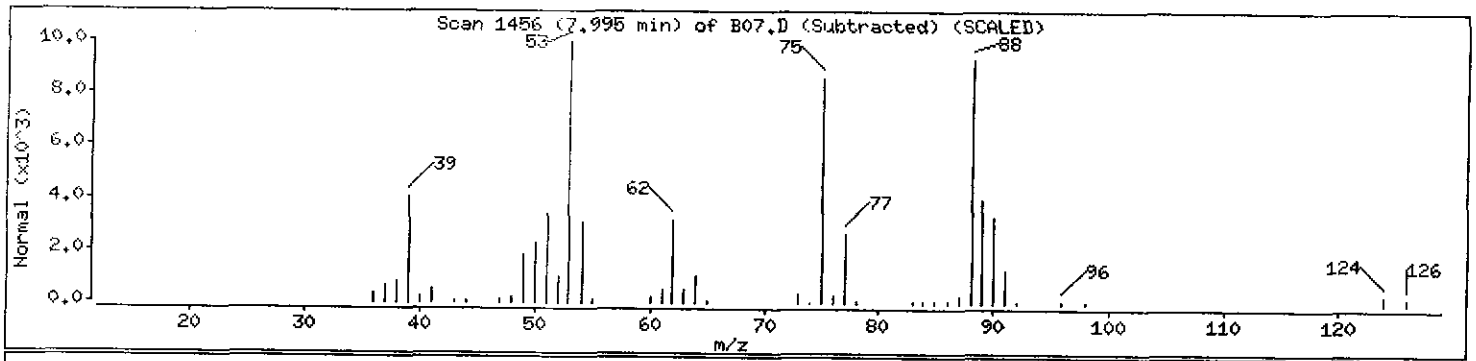
Purge Volume: 5.0

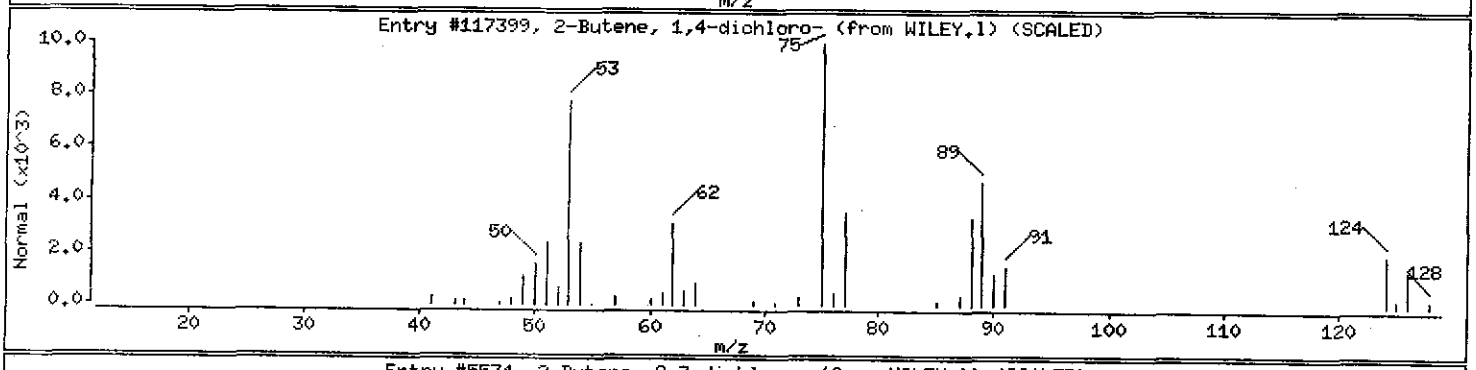
Operator: rsr

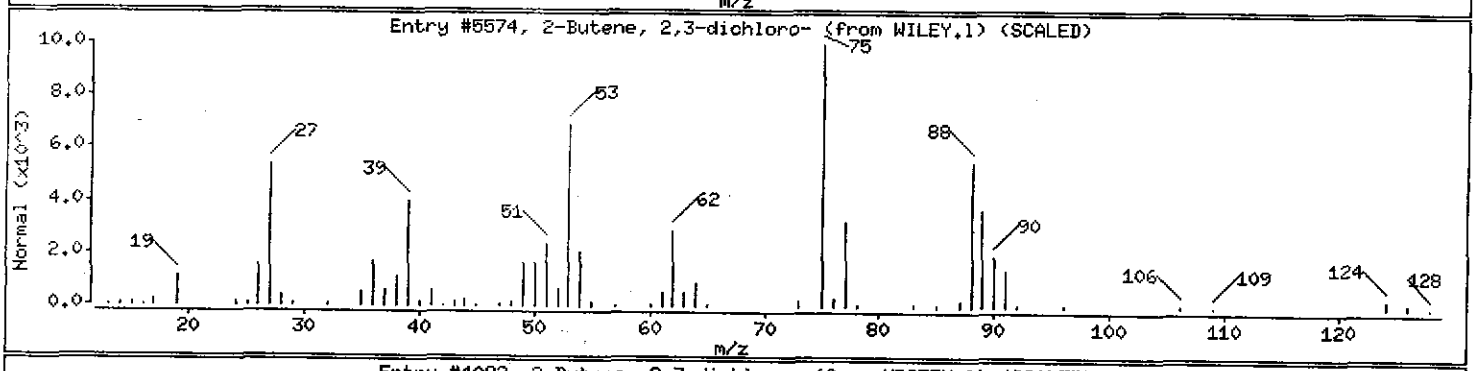
Column phase: DB-624

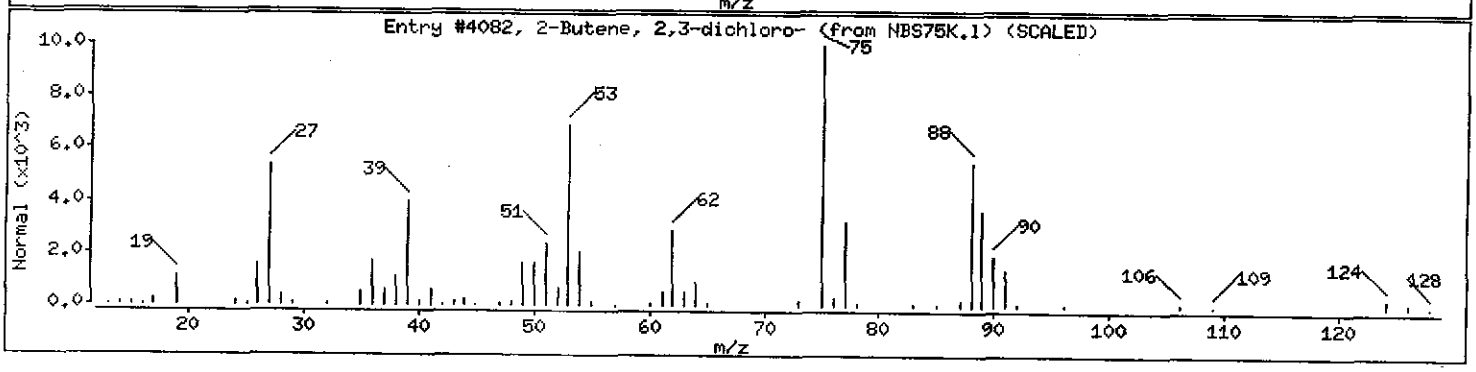
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 1,4-dichloro-	764-41-0	WILEY.l	117399	72	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	64	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	NBS75K.l	4082	64	C4H6Cl2	124









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B08.D
Lab Smp Id: 300ppb
Client Smp ID: 300ppb
Inj Date : 07-JUL-2010 18:03
Operator : rsr
Inst ID: 50MSV5.i
Smp Info : 300ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger
Quant Type: ISTD
Cal Date : 01-JUL-2010 20:51
Cal File: B08.D
Als bottle: 18
Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	423395	300.000	286
2 Chloromethane	50	1.038	1.033	(0.259)	672282	300.000	315
3 Vinyl Chloride	62	1.059	1.059	(0.264)	408303	300.000	297
4 Bromomethane	94	1.185	1.200	(0.296)	194964	300.000	244
139 Methyl Acetate	43	1.776	1.776	(0.443)	191481	300.000	274
5 Chloroethane	64	1.232	1.242	(0.307)	191008	300.000	279
6 Trichlorofluoromethane	101	1.347	1.352	(0.336)	527862	300.000	292
7 Diethyl ether	74	1.467	1.472	(0.366)	97323	300.000	307
8 Acrolein	56	1.535	1.535	(0.383)	417762	6000.00	4760
9 1,1-Dichloroethene	96	1.587	1.593	(0.396)	236741	300.000	299
10 1,1,2trichlorotrifluoroethane	101	1.577	1.587	(0.393)	281265	300.000	303
11 Acetone	43	1.608	1.608	(0.401)	189861	1500.00	1420
12 Iodomethane	142	1.671	1.676	(0.417)	939865	600.000	588
13 Carbon Disulfide	76	1.713	1.713	(0.427)	1458286	600.000	619
142 Acetonitrile	39	1.771	1.770	(0.442)	651099	6000.00	5900
14 allyl chloride	41	1.771	1.770	(0.442)	1104620	600.000	610
15 Methylene Chloride	84	1.833	1.838	(0.457)	228058	300.000	296
16 Acrylonitrile	53	1.980	1.974	(0.494)	1118377	6000.00	5280
17 tert-Butyl Alcohol	59	1.891	1.880	(0.472)	23984	600.000	525(M)
18 1,2-Dichloroethene (trans)	96	1.995	1.995	(0.498)	272959	300.000	322
19 Methyl-tert-butyl ether	73	1.995	1.995	(0.498)	1049136	600.000	630
20 n-Hexane	57	2.168	2.168	(0.541)	564236	300.000	324
21 1,1-Dichloroethane	63	2.273	2.273	(0.567)	564103	300.000	319

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.299	2.304	(0.573)	1829517	1200.00	1180
	143 Chloroprene	53	2.335	2.341	(0.583)	595134	300.000	324
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	423276	300.000	331
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	294144	300.000	308
	26 2-Butanone	43	2.749	2.743	(0.686)	424293	1500.00	1330
	27 Propionitrile	54	2.806	2.801	(0.700)	25024	300.000	320(M)
	144 Methacrylonitrile	41	2.942	2.942	(0.734)	150972	1500.00	1510
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	344297	300.000	335
	29 Bromochloromethane	49	2.947	2.947	(0.735)	279344	300.000	301
	30 Tetrahydrofuran	42	3.005	3.000	(0.750)	53875	300.000	65.0
	31 Chloroform	83	3.026	3.026	(0.755)	497512	300.000	318
$	32 Dibromofluoromethane (S)	113	3.193	3.193	(0.796)	44529	50.0000	46.6
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.802)	498965	300.000	317
	35 Carbon Tetrachloride	117	3.392	3.397	(0.846)	478634	300.000	325
	36 1,1-Dichloropropene	75	3.397	3.397	(0.847)	393539	300.000	318
	37 Isobutyl alcohol	43	3.763	3.763	(0.939)	320163	300.000	324
	140 Cyclohexane	56	3.272	3.272	(0.816)	619454	300.000	323
	38 Benzene	78	3.643	3.643	(0.909)	1033482	300.000	314
	39 1,2-Dichloroethane	62	3.674	3.669	(0.917)	350939	300.000	311
	138 2,2,4-Trimethylpentane	57	3.758	3.758	(0.937)	1616983	300.000	336
	141 Methylcyclohexane	55	4.684	4.684	(1.168)	621906	300.000	337
*	40 Fluorobenzene	96	4.009	4.009	(1.000)	191982	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.113)	355762	300.000	337
	42 1,2-Dichloropropane	63	4.736	4.736	(1.181)	374413	300.000	328
	43 Dibromomethane	93	4.867	4.867	(1.214)	156542	300.000	307
	44 Methyl methacrylate	69	4.935	4.930	(1.231)	137841	300.000	349
	45 Bromodichloromethane	83	5.071	5.071	(1.265)	427190	300.000	347
	46 2-Chloroethyl vinyl ether	63	5.458	5.458	(0.756)	262284	600.000	611
	145 1,4-Dioxane	88	4.940	4.940	(1.232)	1959	6000.00	5840
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.774)	483806	300.000	334
	48 4-Methyl-2-Pentanone	43	5.798	5.793	(0.803)	1398817	1500.00	1560
$	49 Toluene-d8	98	5.876	5.871	(0.814)	206396	50.0000	49.5
	50 Toluene	91	5.944	5.944	(0.823)	1449641	300.000	310
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.860)	421254	300.000	345
	52 Ethyl Methacrylate	69	6.357	6.352	(0.880)	306335	300.000	342
	53 1,1,2-Trichloroethane	83	6.399	6.394	(0.886)	211231	300.000	302
	54 Tetrachloroethene	166	6.514	6.509	(0.902)	532245	300.000	330
	55 1,3-Dichloropropane	76	6.551	6.551	(0.907)	417281	300.000	314
	56 2-Hexanone	43	6.671	6.666	(0.924)	992452	1500.00	1600
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	386846	300.000	344
	58 1,2-Dibromoethane	107	6.833	6.833	(0.946)	286899	300.000	328
*	59 Chlorobenzene-d5	117	7.220	7.215	(1.000)	175267	50.0000	
	60 Chlorobenzene	112	7.241	7.236	(1.003)	1174437	300.000	320
	61 1,1,1,2-Tetrachloroethane	131	7.309	7.309	(1.012)	463054	300.000	336
	62 Ethylbenzene	106	7.335	7.335	(1.016)	656164	300.000	330
	63 m&p-Xylene	106	7.430	7.424	(1.029)	1557142	600.000	647
	65 o-Xylene	106	7.702	7.696	(1.067)	768430	300.000	324
	66 Styrene	104	7.712	7.707	(1.068)	1230367	300.000	322
	67 Bromoform	173	7.827	7.827	(0.897)	244114	300.000	308
	68 Isopropylbenzene	105	7.947	7.942	(1.101)	2044378	300.000	320
	69 trans-1,4-Dichloro-2-butene	53	8.178	8.172	(1.133)	115512	300.000	336
$	70 4-Bromofluorobenzene	95	8.042	8.036	(1.114)	79567	50.0000	48.9
	71 Bromobenzene	77	8.125	8.125	(1.125)	666208	300.000	314
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.933)	337364	300.000	322

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.162	8.162	(0.936)	361652	300.000	328
74 n-Propylbenzene	91	8.204	8.198	(0.941)	2282634	300.000	316
75 2-Chlorotoluene	91	8.251	8.246	(0.946)	1277963	300.000	309
76 4-Chlorotoluene	126	8.319	8.314	(0.954)	546662	300.000	320
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	1640094	300.000	319
78 tert-Butylbenzene	119	8.502	8.497	(0.975)	2137291	300.000	322
79 1,2,4-Trimethylbenzene	105	8.528	8.523	(0.978)	1669073	300.000	309
80 sec-Butylbenzene	105	8.622	8.617	(0.989)	2295197	300.000	316
81 1,3-Dichlorobenzene	146	8.685	8.680	(0.996)	1009827	300.000	309
* 82 1,4-Dichlorobenzene-d4	152	8.722	8.716	(1.000)	104672	50.0000	(Q)
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	2128522	300.000	317
84 1,4-Dichlorobenzene	146	8.732	8.727	(1.001)	1015085	300.000	301
85 1,2-Dichlorobenzene	146	8.936	8.931	(1.025)	925041	300.000	306
86 n-Butylbenzene	91	8.920	8.920	(1.023)	1701143	300.000	310
87 1,2-Dibromo-3-chloropropane	155	9.339	9.339	(1.071)	58270	300.000	344
88 1,2,4-Trichlorobenzene	180	9.752	9.752	(1.118)	659328	300.000	329
89 Hexachlorobutadiene	225	9.830	9.830	(1.127)	423739	300.000	321
90 Naphthalene	128	9.877	9.877	(1.133)	1285393	300.000	338
91 1,2,3-Trichlorobenzene	180	10.003	10.003	(1.147)	603635	300.000	335
92 2,methyl-naphthalene	142	10.484	10.489	(1.202)	897204	300.000	306

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B08.D
Lab Smp Id: 300ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: 300ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	191982	13.64
59 Chlorobenzene-d5	150139	75070	300278	175267	16.74
82 1,4-Dichlorobenze	91936	45968	183872	104672	13.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.00
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.07
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.06

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	286	
74-87-3	Chloromethane	315	
75-01-4	Vinyl Chloride	297	
74-83-9	Bromomethane	244	
79-20-9	Methyl Acetate	274	
75-00-3	Chloroethane	279	
75-69-4	Trichlorofluoromethane	292	
60-29-7	Diethyl ether	307	
107-02-8	Acrolein	4760	
75-35-4	1,1-Dichloroethene	299	
76-13-1	1,1,2trichlorotrifluoroethan	303	
67-64-1	Acetone	1420	
	Iodomethane	588	
75-15-0	Carbon Disulfide	619	
75-05-8	Acetonitrile	5900	
107-05-1	allyl chloride	610	
75-09-2	Methylene Chloride	296	
107-13-1	Acrylonitrile	5280	
75-65-0	tert-Butyl Alcohol	525	
156-60-5	1,2-Dichloroethene (trans)	322	
1634-04-4	Methyl-tert-butyl ether	630	
	n-Hexane	324	
75-34-3	1,1-Dichloroethane	319	
108-05-4	Vinyl Acetate	1180	
126-99-8	Chloroprene	324	
594-20-7	2,2-Dichloropropane	331	
156-59-2	1,2-Dichloroethene (cis)	308	
78-93-3	2-Butanone	1330	
107-12-0	Propionitrile	320	
126-98-7	Methacrylonitrile	1510	
354-23-4	1,2-dichlorotrifluoroethane	335	
74-97-5	Bromochloromethane	301	
	Tetrahydrofuran	65.0	
67-66-3	Chloroform	318	
71-55-6	1,1,1-Trichloroethane	317	
56-23-5	Carbon Tetrachloride	325	
563-58-6	1,1-Dichloropropene	318	
78-83-1	Isobutyl alcohol	324	
110-82-7	Cyclohexane	323	
71-43-2	Benzene	314	
107-06-2	1,2-Dichloroethane	311	
540-84-1	2,2,4-Trimethylpentane	336	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	337	
79-01-6	Trichloroethene	337	
78-87-5	1,2-Dichloropropane	328	
74-95-3	Dibromomethane	307	
80-62-6	Methyl methacrylate	349	
75-27-4	Bromodichloromethane	347	
110-75-8	2-Chloroethyl vinyl ether	611	
	1,4-Dioxane	5840	
10061-01-5	cis-1,3-Dichloropropene	334	
108-10-1	4-Methyl-2-Pentanone	1560	
108-88-3	Toluene	310	
10061-02-6	trans-1,3-Dichloropropene	345	
	Ethyl Methacrylate	342	
79-00-5	1,1,2-Trichloroethane	302	
127-18-4	Tetrachloroethene	330	
142-28-9	1,3-Dichloropropane	314	
591-78-6	2-Hexanone	1600	
124-48-1	Dibromochloromethane	344	
106-93-4	1,2-Dibromoethane	328	
108-90-7	Chlorobenzene	320	
630-20-6	1,1,1,2-Tetrachloroethane	336	
100-41-4	Ethylbenzene	330	
7816-60-0	m&p-Xylene	647	
95-47-6	o-Xylene	324	
100-42-5	Styrene	322	
75-25-2	Bromoform	308	
98-82-8	Isopropylbenzene	320	
	trans-1,4-Dichloro-2-butene	336	
108-86-1	Bromobenzene	314	
79-34-5	1,1,2,2-Tetrachloroethane	322	
96-18-4	1,2,3-Trichloropropane	328	
103-65-1	n-Propylbenzene	316	
95-49-8	2-Chlorotoluene	309	
106-43-4	4-Chlorotoluene	320	
108-67-8	1,3,5-Trimethylbenzene	319	
98-06-6	tert-Butylbenzene	322	
95-63-6	1,2,4-Trimethylbenzene	309	
135-98-8	sec-Butylbenzene	316	
541-73-1	1,3-Dichlorobenzene	309	
99-87-6	p-Isopropyltoluene	317	
106-46-7	1,4-Dichlorobenzene	301	
95-50-1	1,2-Dichlorobenzene	306	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

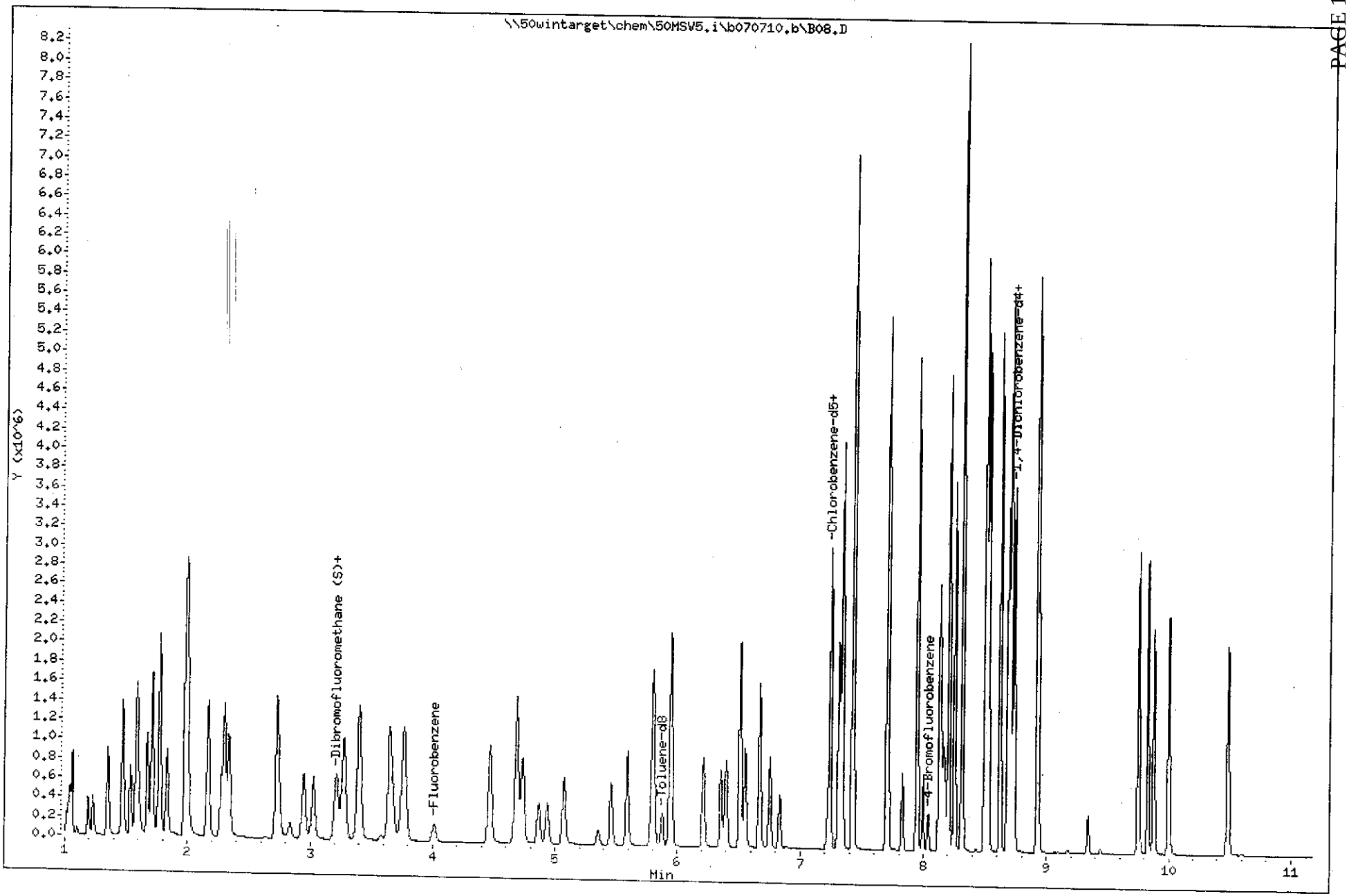
Client SDG: b070710.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	310	
96-12-8	1,2-Dibromo-3-chloropropane	344	
120-82-1	1,2,4-Trichlorobenzene	329	
87-68-3	Hexachlorobutadiene	321	
91-20-3	Naphthalene	338	
87-61-6	1,2,3-Trichlorobenzene	335	
	2,methyl-naphthalene	306	
1868-53-7	Dibromofluoromethane (S)	46.6	
2037-26-5	Toluene-d8	49.5	
460-00-4	4-Bromofluorobenzene	48.9	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B08.D
Date : 07-JUL-2010 18:03
Client ID: 300ppb
Sample Info: 300ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B08.D

Date : 07-JUL-2010 18:03

Client ID: 300ppb

Instrument: 50MSV5.i

Sample Info: 300ppb

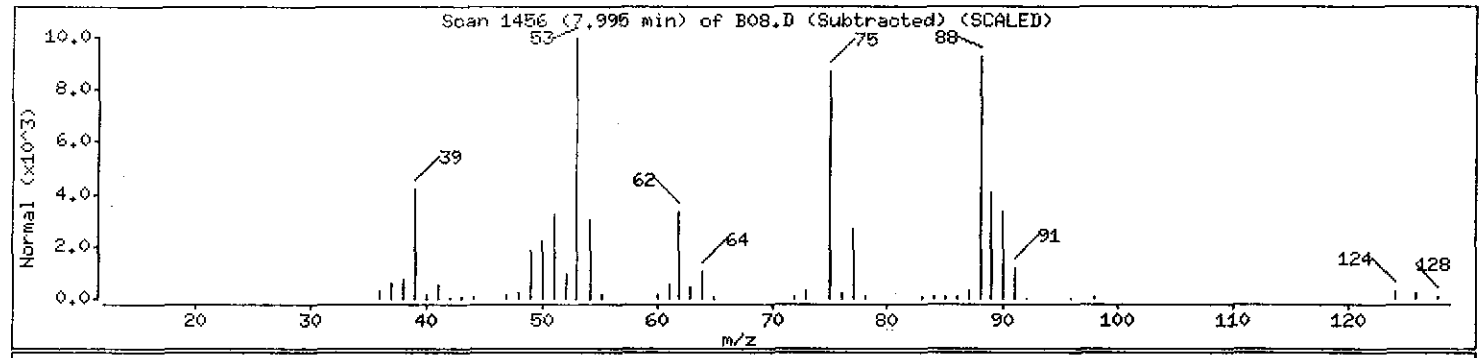
Purge Volume: 5.0

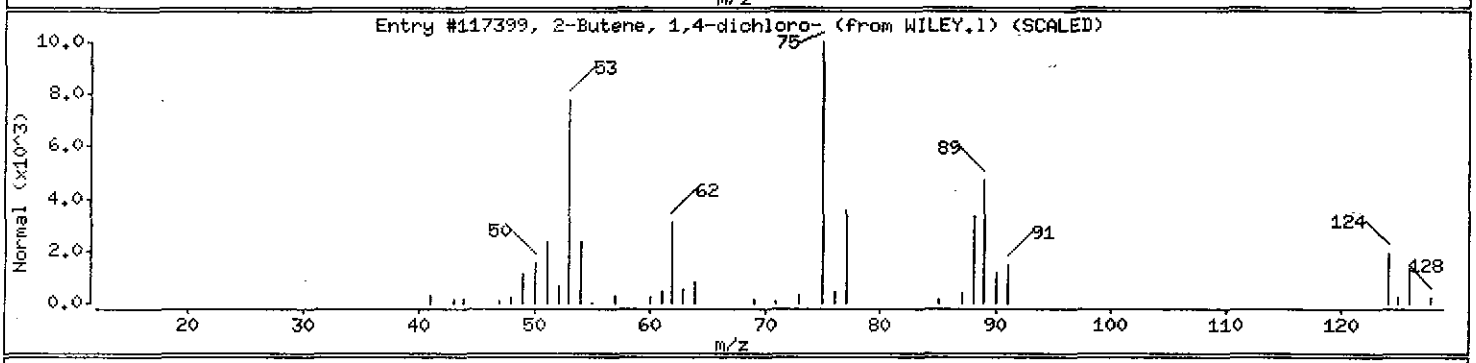
Operator: rsr

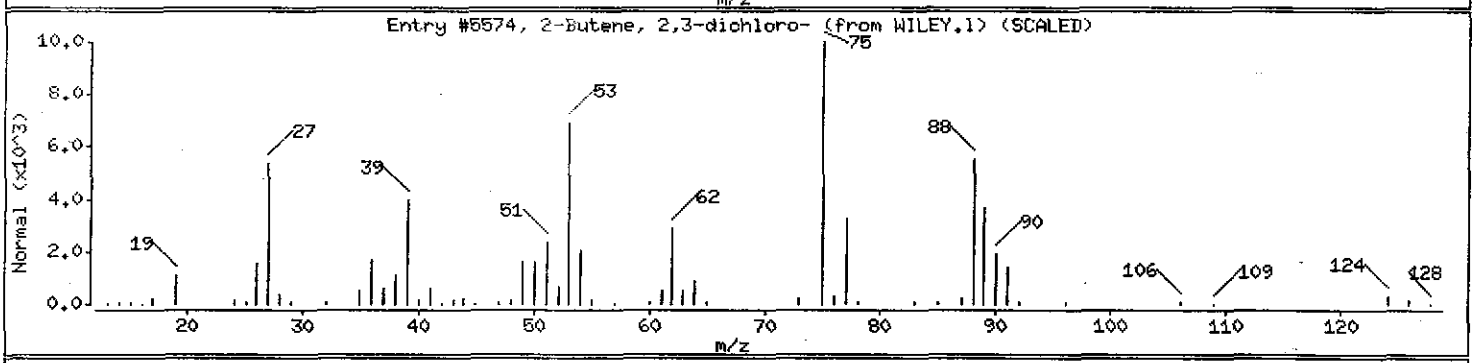
Column phase: DB-624

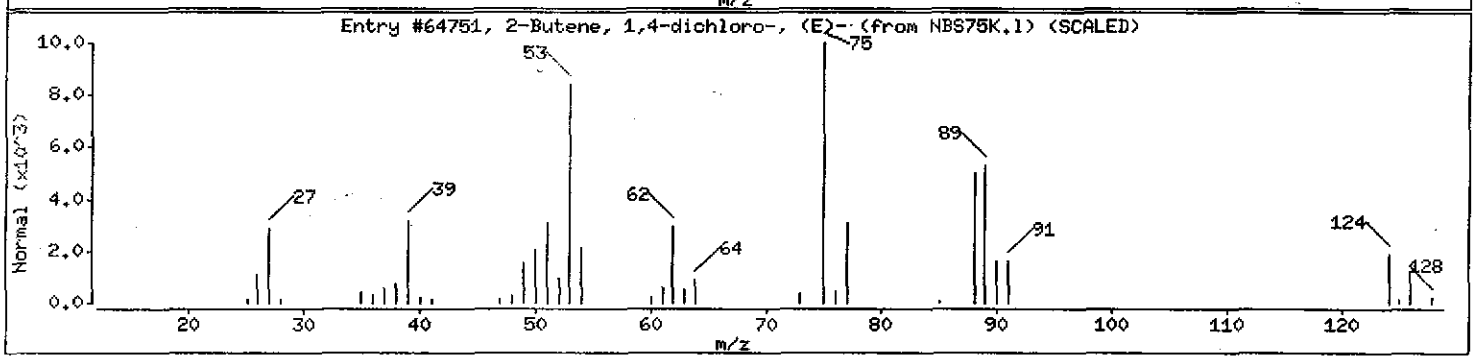
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 1,4-dichloro-	764-41-0	WILEY.l	117399	80	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	64	C4H6Cl2	124
2-Butene, 1,4-dichloro-, (E)-	110-57-6	NBS75K.l	64751	64	C4H6Cl2	124









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b070710.b\B09ICV.D
Lab Smp Id: icv 34B-165 Client Smp ID: icv
Inj Date : 07-JUL-2010 18:40
Operator : rsr Inst ID: 50MSV5.i
Smp Info : icv 34B-165
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Meth Date : 08-Jul-2010 11:08 rrenbarger Quant Type: ISTD
Cal Date : 07-JUL-2010 18:03 Cal File: B08.D
Als bottle: 20 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	73857	51.5206	51.5
2 Chloromethane	50	1.033	1.033	(0.257)	96370	46.6207	46.6
3 Vinyl Chloride	62	1.059	1.059	(0.264)	64423	48.4608	48.5
4 Bromomethane	94	1.200	1.200	(0.299)	40015	51.6611	51.7
139 Methyl Acetate	43	1.776	1.776	(0.442)	42092	62.2259	62.2
5 Chloroethane	64	1.242	1.242	(0.310)	31362	47.2786	47.3
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	80248	43.0027	43.0
7 Diethyl ether	74	1.472	1.472	(0.367)	13664	44.5245	44.5
8 Acrolein	56	1.535	1.535	(0.382)	83061	977.037	977
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	40102	52.3249	52.3
10 1,1,2trichlorotrifluoroethane	101	1.587	1.587	(0.396)	41015	45.5908	45.6
11 Acetone	43	1.608	1.608	(0.401)	42247	295.175	295
12 Iodomethane	142	1.676	1.676	(0.418)	136870	89.3952	89.4
13 Carbon Disulfide	76	1.713	1.713	(0.427)	226259	99.1590	99.2
142 Acetonitrile	39	1.770	1.770	(0.441)	90536	847.974	848
14 allyl chloride	41	1.770	1.770	(0.441)	155324	88.5843	88.6
15 Methylene Chloride	84	1.838	1.838	(0.458)	38669	45.8986	45.9
16 Acrylonitrile	53	1.974	1.974	(0.492)	193814	945.928	946
17 tert-Butyl Alcohol	59	1.880	1.880	(0.468)	4422	99.9090	99.9(Q)
18 1,2-Dichloroethene (trans)	96	2.001	1.995	(0.498)	42130	51.2855	51.3
19 Methyl-tert-butyl ether	73	1.995	1.995	(0.497)	153497	95.1592	95.2
20 n-Hexane	57	2.168	2.168	(0.540)	85374	50.5734	50.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	21 1,1-Dichloroethane	63	2.273	2.273	(0.566)	81107	47.4228	47.4
	23 Vinyl Acetate	43	2.304	2.304	(0.574)	210815	140.554	140
	143 Chloroprene	53	2.341	2.341	(0.583)	85176	47.8703	47.9
	24 2,2-Dichloropropane	77	2.728	2.728	(0.680)	58347	47.1240	47.1
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	46403	50.1939	50.2
	26 2-Butanone	43	2.743	2.743	(0.683)	83403	269.753	270
	144 Methacrylonitrile	41	2.942	2.942	(0.733)	20038	206.501	206
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	50615	50.9230	50.9
	29 Bromochloromethane	49	2.947	2.947	(0.734)	42516	47.2840	47.3
	30 Tetrahydrofuran	42	3.005	3.000	(0.749)	12389	15.4348	15.4
	31 Chloroform	83	3.026	3.026	(0.754)	69096	45.6997	45.7
$	32 Dibromofluoromethane (S)	113	3.193	3.193	(0.795)	47975	51.8839	51.9
	33 1,1,1-Trichloroethane	97	3.214	3.214	(0.801)	69069	45.3209	45.3
	35 Carbon Tetrachloride	117	3.397	3.397	(0.846)	64823	45.4571	45.4
	36 1,1-Dichloropropene	75	3.397	3.397	(0.846)	55697	46.5279	46.5
	37 Isobutyl alcohol	43	3.795	3.763	(0.945)	373459	390.139	390(Q)
	140 Cyclohexane	56	3.272	3.272	(0.815)	90566	48.7811	48.8
	38 Benzene	78	3.643	3.643	(0.908)	144648	45.4530	45.4
	39 1,2-Dichloroethane	62	3.674	3.669	(0.915)	51634	47.2566	47.2
	138 2,2,4-Trimethylpentane	57	3.763	3.758	(0.937)	206614	44.3795	44.4
	141 Methylcyclohexane	55	4.684	4.684	(1.167)	84047	47.1015	47.1
*	40 Fluorobenzene	96	4.014	4.009	(1.000)	185868	50.0000	
	41 Trichloroethene	95	4.464	4.464	(1.112)	48541	47.4842	47.5
	42 1,2-Dichloropropane	63	4.736	4.736	(1.180)	49665	44.9938	45.0
	43 Dibromomethane	93	4.867	4.867	(1.212)	22709	45.9662	46.0
	44 Methyl methacrylate	69	4.935	4.930	(1.229)	73598	192.262	192
	45 Bromodichloromethane	83	5.071	5.071	(1.263)	54283	45.5335	45.5
	46 2-Chloroethyl vinyl ether	63	5.458	5.458	(0.756)	13951	49.7106	49.7
	145 1,4-Dioxane	88	4.930	4.940	(1.228)	5778	17800.9	17800(Q)
	47 cis-1,3-Dichloropropene	75	5.589	5.589	(0.774)	60634	44.6185	44.6
	48 4-Methyl-2-Pentanone	43	5.793	5.793	(0.802)	178813	213.117	213
$	49 Toluene-d8	98	5.871	5.871	(0.813)	200919	51.3536	51.4
	50 Toluene	91	5.944	5.944	(0.823)	193932	44.1091	44.1
	51 trans-1,3-Dichloropropene	75	6.211	6.211	(0.860)	51787	45.1545	45.2
	52 Ethyl Methacrylate	69	6.352	6.352	(0.880)	158418	188.617	189
	53 1,1,2-Trichloroethane	83	6.394	6.394	(0.886)	28928	45.8852	45.9
	54 Tetrachloroethene	166	6.509	6.509	(0.901)	60033	39.6183	39.6
	55 1,3-Dichloropropane	76	6.551	6.551	(0.907)	55640	44.5891	44.6
	56 2-Hexanone	43	6.666	6.666	(0.923)	153202	263.907	264
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	46134	43.7128	43.7
	58 1,2-Dibromoethane	107	6.833	6.833	(0.946)	37528	45.7672	45.8
*	59 Chlorobenzene-d5	117	7.220	7.215	(1.000)	164531	50.0000	
	60 Chlorobenzene	112	7.241	7.236	(1.003)	150026	43.6023	43.6
	61 1,1,1,2-Tetrachloroethane	131	7.309	7.309	(1.012)	54912	42.5150	42.5
	62 Ethylbenzene	106	7.335	7.335	(1.016)	82414	44.1511	44.2
	63 m&p-Xylene	106	7.424	7.424	(1.028)	202132	89.4753	89.5
	65 o-Xylene	106	7.696	7.696	(1.066)	99080	44.4743	44.5
	66 Styrene	104	7.707	7.707	(1.067)	159888	44.5956	44.6
	67 Bromoform	173	7.827	7.827	(0.898)	26926	39.9553	40.0
	68 Isopropylbenzene	105	7.947	7.942	(1.101)	258685	43.1894	43.2
	69 trans-1,4-Dichloro-2-butene	53	8.172	8.172	(1.132)	57225	177.549	178(Q)
$	70 4-Bromofluorobenzene	95	8.036	8.036	(1.113)	78393	51.3448	51.3
	71 Bromobenzene	77	8.125	8.125	(1.125)	85957	43.1888	43.2
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.934)	44410	42.4940	42.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
73 1,2,3-Trichloropropane	75	8.172	8.162	(0.938)	89538	81.3418	81.3
74 n-Propylbenzene	91	8.204	8.198	(0.941)	318487	44.2003	44.2
75 2-Chlorotoluene	91	8.246	8.246	(0.946)	180532	43.8346	43.8
76 4-Chlorotoluene	126	8.313	8.314	(0.954)	73068	42.9792	43.0
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	223104	43.5256	43.5
78 tert-Butylbenzene	119	8.497	8.497	(0.975)	218589	33.0552	33.0(R)
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.978)	222300	41.2948	41.3
80 sec-Butylbenzene	105	8.622	8.617	(0.989)	315442	43.6398	43.6
81 1,3-Dichlorobenzene	146	8.680	8.680	(0.996)	140525	43.1919	43.2
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.716	(1.000)	104339	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	289213	43.2299	43.2
84 1,4-Dichlorobenzene	146	8.732	8.727	(1.002)	143994	42.8031	42.8
85 1,2-Dichlorobenzene	146	8.931	8.931	(1.025)	129848	43.1529	43.2
86 n-Butylbenzene	91	8.920	8.920	(1.023)	245854	45.0110	45.0
87 1,2-Dibromo-3-chloropropane	155	9.344	9.339	(1.072)	7557	44.7949	44.8
88 1,2,4-Trichlorobenzene	180	9.757	9.752	(1.119)	89222	44.6474	44.6
89 Hexachlorobutadiene	225	9.835	9.830	(1.128)	58284	44.3201	44.3
90 Naphthalene	128	9.883	9.877	(1.134)	170605	45.0005	45.0
91 1,2,3-Trichlorobenzene	180	10.008	10.003	(1.148)	81607	45.4148	45.4
92 2,methyl-naphthalene	142	10.495	10.489	(1.204)	97526	42.8871	42.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B09ICV.D
Lab Smp Id: icv 34B-165
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Calibration Date: 07-JUL-2010
Calibration Time: 15:34
Client Smp ID: icv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	185868	10.02
59 Chlorobenzene-d5	150139	75070	300278	164531	9.59
82 1,4-Dichlorobenze	91936	45968	183872	104339	13.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.13
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.07
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	-0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: icv 34B-165
Level: LOW
Data Type: MS DATA
SpikeList File: 8260ICV.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b070710.b\-B8260.m
Misc Info:

Client SDG: b070710.b
Fraction: VOA
Client Smp ID: icv
Operator: rsr
SampleType: ICV
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	51.5	103.04	70-130
2 Chloromethane	50.0	46.6	93.24	70-130
3 Vinyl Chloride	50.0	48.5	96.92	70-130
4 Bromomethane	50.0	51.7	103.32	70-130
5 Chloroethane	50.0	47.3	94.56	70-130
6 Trichlorofluoromet	50.0	43.0	86.01	70-130
28 1,2-dichlorotriflu	50.0	50.9	101.85	70-130
7 Diethyl ether	50.0	44.5	89.05	70-130
8 Acrolein	1000	977	97.70	70-130
9 1,1-Dichloroethene	50.0	52.3	104.65	70-130
10 1,1,2trichlorotrif	50.0	45.6	91.18	70-130
11 Acetone	250	295	118.07	70-130
12 Iodomethane	100	89.4	89.40	70-130
13 Carbon Disulfide	100	99.2	99.16	70-130
139 Methyl Acetate	50.0	62.2	124.45	70-130
14 allyl chloride	100	88.6	88.58	70-130
15 Methylene Chloride	50.0	45.9	91.80	70-130
16 Acrylonitrile	1000	946	94.59	70-130
17 tert-Butyl Alcohol	100	99.9	99.91	70-130
18 1,2-Dichloroethene	50.0	51.3	102.57	70-130
19 Methyl-tert-butyl	100	95.2	95.16	70-130
20 n-Hexane	50.0	50.6	101.15	70-130
21 1,1-Dichloroethane	50.0	47.4	94.85	70-130
23 Vinyl Acetate	200	140	70.28	70-130
25 1,2-Dichloroethene	50.0	50.2	100.39	70-130
24 2,2-Dichloropropan	50.0	47.1	94.25	70-130
26 2-Butanone	250	270	107.90	70-130
29 Bromochloromethane	50.0	47.3	94.57	70-130
31 Chloroform	50.0	45.7	91.40	70-130
33 1,1,1-Trichloroeth	50.0	45.3	90.64	70-130
140 Cyclohexane	50.0	48.8	97.56	70-130
36 1,1-Dichloropropen	50.0	46.5	93.06	70-130
35 Carbon Tetrachlori	50.0	45.4	90.91	70-130
38 Benzene	50.0	45.4	90.91	70-130
39 1,2-Dichloroethane	50.0	47.2	94.51	70-130
41 Trichloroethene	50.0	47.5	94.97	70-130
141 Methylcyclohexane	50.0	47.1	94.20	70-130
42 1,2-Dichloropropan	50.0	45.0	89.99	70-130
43 Dibromomethane	50.0	46.0	91.93	70-130
44 Methyl methacrylat	200	192	96.13	70-130

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
45 Bromodichlorometha	50.0	45.5	91.07	70-130
47 cis-1,3-Dichloropr	50.0	44.6	89.24	70-130
48 4-Methyl-2-Pentano	250	213	85.25	70-130
50 Toluene	50.0	44.1	88.22	70-130
51 trans-1,3-Dichloro	50.0	45.2	90.31	70-130
52 Ethyl Methacrylate	200	189	94.31	70-130
53 1,1,2-Trichloroeth	50.0	45.9	91.77	70-130
54 Tetrachloroethene	50.0	39.6	79.24	70-130
55 1,3-Dichloropropan	50.0	44.6	89.18	70-130
56 2-Hexanone	250	264	105.56	70-130
57 Dibromochlorometha	50.0	43.7	87.43	70-130
58 1,2-Dibromoethane	50.0	45.8	91.53	70-130
60 Chlorobenzene	50.0	43.6	87.20	70-130
61 1,1,1,2-Tetrachlor	50.0	42.5	85.03	70-130
62 Ethylbenzene	50.0	44.2	88.30	70-130
63 m&p-Xylene	100	89.5	89.48	70-130
65 o-Xylene	50.0	44.5	88.95	70-130
66 Styrene	50.0	44.6	89.19	70-130
67 Bromoform	50.0	40.0	79.91	70-130
68 Isopropylbenzene	50.0	43.2	86.38	70-130
69 trans-1,4-Dichloro	200	178	88.77	70-130
72 1,1,2,2-Tetrachlor	50.0	42.5	84.99	70-130
71 Bromobenzene	50.0	43.2	86.38	70-130
73 1,2,3-Trichloropro	100	81.3	81.34	70-130
74 n-Propylbenzene	50.0	44.2	88.40	70-130
75 2-Chlorotoluene	50.0	43.8	87.67	70-130
76 4-Chlorotoluene	50.0	43.0	85.96	70-130
77 1,3,5-Trimethylben	50.0	43.5	87.05	70-130
78 tert-Butylbenzene	50.0	33.0	66.11*	70-130
79 1,2,4-Trimethylben	50.0	41.3	82.59	70-130
80 sec-Butylbenzene	50.0	43.6	87.28	70-130
81 1,3-Dichlorobenzen	50.0	43.2	86.38	70-130
83 p-Isopropyltoluene	50.0	43.2	86.46	70-130
84 1,4-Dichlorobenzen	50.0	42.8	85.61	70-130
86 n-Butylbenzene	50.0	45.0	90.02	70-130
85 1,2-Dichlorobenzen	50.0	43.2	86.31	70-130
88 1,2,4-Trichloroben	50.0	44.6	89.29	70-130
91 1,2,3-Trichloroben	50.0	45.4	90.83	70-130
87 1,2-Dibromo-3-chlo	50.0	44.8	89.59	70-130
89 Hexachlorobutadien	50.0	44.3	88.64	70-130
90 Naphthalene	50.0	45.0	90.00	70-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.9	103.77	80-123
$ 49 Toluene-d8	50.0	51.4	102.71	80-116
$ 70 4-Bromofluorobenze	50.0	51.3	102.69	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34B-165
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	51.5	
74-87-3	Chloromethane	46.6	
75-01-4	Vinyl Chloride	48.5	
74-83-9	Bromomethane	51.7	
79-20-9	Methyl Acetate	62.2	
75-00-3	Chloroethane	47.3	
75-69-4	Trichlorofluoromethane	43.0	
60-29-7	Diethyl ether	44.5	
107-02-8	Acrolein	977	
75-35-4	1,1-Dichloroethene	52.3	
76-13-1	1,1,2trichlorotrifluoroethan	45.6	
67-64-1	Acetone	295	
	Iodomethane	89.4	
75-15-0	Carbon Disulfide	99.2	
75-05-8	Acetonitrile	848	
107-05-1	allyl chloride	88.6	
75-09-2	Methylene Chloride	45.9	
107-13-1	Acrylonitrile	946	
75-65-0	tert-Butyl Alcohol	99.9	
156-60-5	1,2-Dichloroethene (trans)	51.3	
1634-04-4	Methyl-tert-butyl ether	95.2	
	n-Hexane	50.6	
75-34-3	1,1-Dichloroethane	47.4	
108-05-4	Vinyl Acetate	140	
126-99-8	Chloroprene	47.9	
594-20-7	2,2-Dichloropropane	47.1	
156-59-2	1,2-Dichloroethene (cis)	50.2	
78-93-3	2-Butanone	270	
126-98-7	Methacrylonitrile	206	
354-23-4	1,2-dichlorotrifluoroethane	50.9	
74-97-5	Bromochloromethane	47.3	
	Tetrahydrofuran	15.4	
67-66-3	Chloroform	45.7	
71-55-6	1,1,1-Trichloroethane	45.3	
56-23-5	Carbon Tetrachloride	45.4	
563-58-6	1,1-Dichloropropene	46.5	
78-83-1	Isobutyl alcohol	390	
110-82-7	Cyclohexane	48.8	
71-43-2	Benzene	45.4	
107-06-2	1,2-Dichloroethane	47.2	
540-84-1	2,2,4-Trimethylpentane	44.4	
108-82-7	Methylcyclohexane	47.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34B-165
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b070710.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	47.5	
78-87-5	1,2-Dichloropropane	45.0	
74-95-3	Dibromomethane	46.0	
80-62-6	Methyl methacrylate	192	
75-27-4	Bromodichloromethane	45.5	
110-75-8	2-Chloroethyl vinyl ether	49.7	
	1,4-Dioxane	17800	
10061-01-5	cis-1,3-Dichloropropene	44.6	
108-10-1	4-Methyl-2-Pentanone	213	
108-88-3	Toluene	44.1	
10061-02-6	trans-1,3-Dichloropropene	45.2	
	Ethyl Methacrylate	189	
79-00-5	1,1,2-Trichloroethane	45.9	
127-18-4	Tetrachloroethene	39.6	
142-28-9	1,3-Dichloropropane	44.6	
591-78-6	2-Hexanone	264	
124-48-1	Dibromochloromethane	43.7	
106-93-4	1,2-Dibromoethane	45.8	
108-90-7	Chlorobenzene	43.6	
630-20-6	1,1,1,2-Tetrachloroethane	42.5	
100-41-4	Ethylbenzene	44.2	
7816-60-0	m&p-Xylene	89.5	
95-47-6	o-Xylene	44.5	
100-42-5	Styrene	44.6	
75-25-2	Bromoform	40.0	
98-82-8	Isopropylbenzene	43.2	
	trans-1,4-Dichloro-2-butene	178	
108-86-1	Bromobenzene	43.2	
79-34-5	1,1,2,2-Tetrachloroethane	42.5	
96-18-4	1,2,3-Trichloropropane	81.3	
103-65-1	n-Propylbenzene	44.2	
95-49-8	2-Chlorotoluene	43.8	
106-43-4	4-Chlorotoluene	43.0	
108-67-8	1,3,5-Trimethylbenzene	43.5	
98-06-6	tert-Butylbenzene	33.0	
95-63-6	1,2,4-Trimethylbenzene	41.3	
135-98-8	sec-Butylbenzene	43.6	
541-73-1	1,3-Dichlorobenzene	43.2	
99-87-6	p-Isopropyltoluene	43.2	
106-46-7	1,4-Dichlorobenzene	42.8	
95-50-1	1,2-Dichlorobenzene	43.2	
104-51-8	n-Butylbenzene	45.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34B-165
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

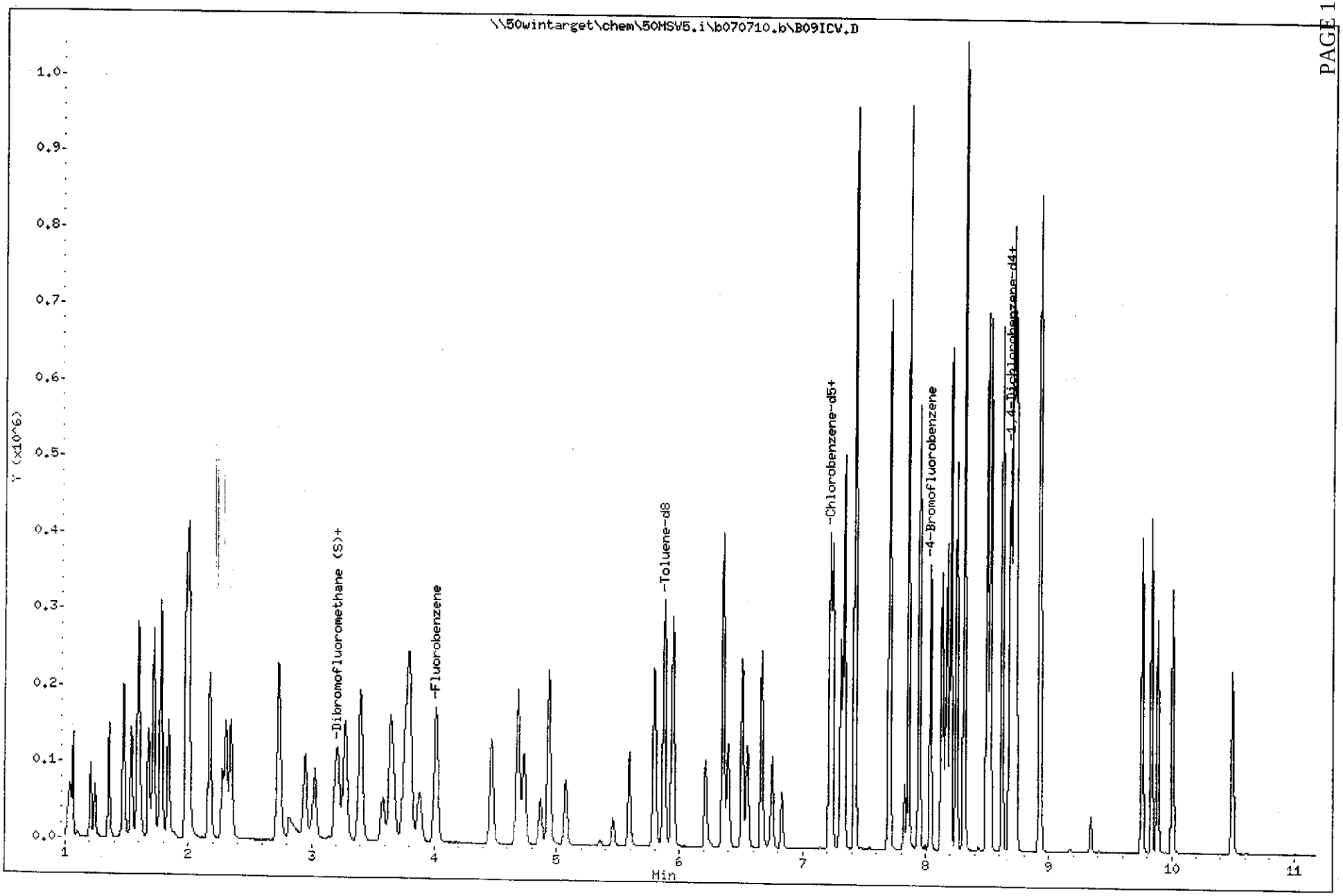
Client SDG: b070710.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	44.8	
120-82-1	1,2,4-Trichlorobenzene	44.6	
87-68-3	Hexachlorobutadiene	44.3	
91-20-3	Naphthalene	45.0	
87-61-6	1,2,3-Trichlorobenzene	45.4	
	2,methyl-naphthalene	42.9	
1868-53-7	Dibromofluoromethane (S)	51.9	
2037-26-5	Toluene-d8	51.4	
460-00-4	4-Bromofluorobenzene	51.3	

Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B09ICV.D
Date : 07-JUL-2010 18:40
Client ID: icv
Sample Info: icv 34B-165
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b070710.b\B09ICV.D

Date : 07-JUL-2010 18:40

Client ID: icv

Instrument: 50MSV5.i

Sample Info: icv 34B-165

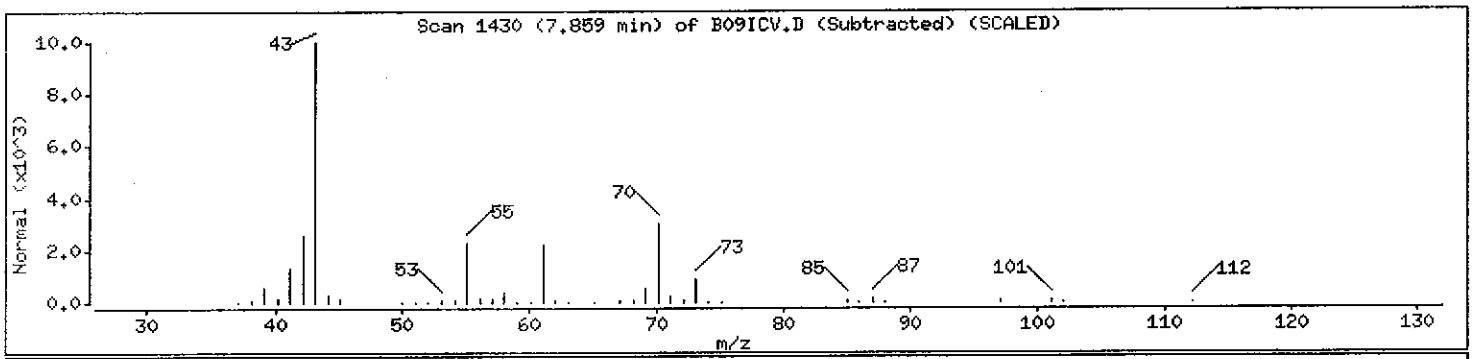
Purge Volume: 5.0

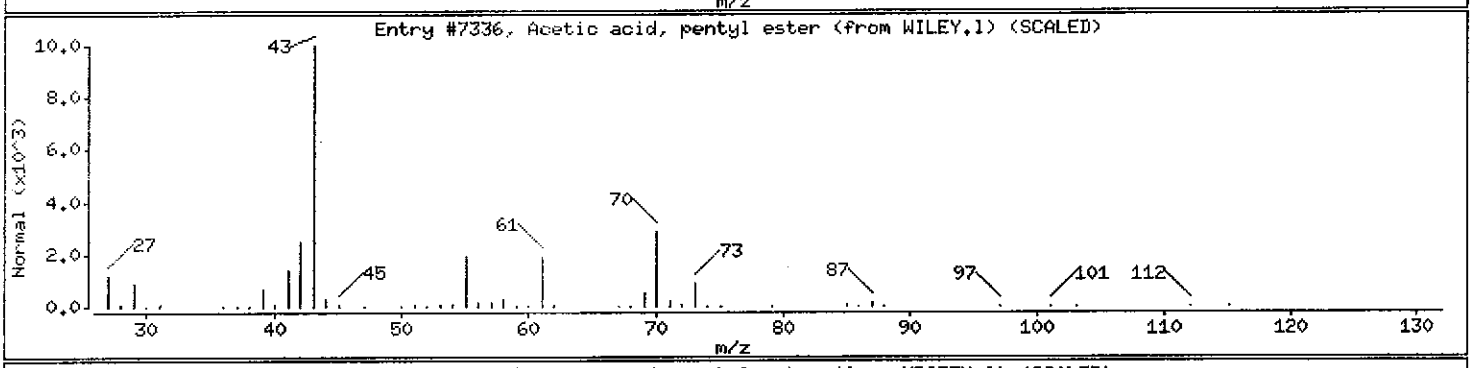
Operator: rsr

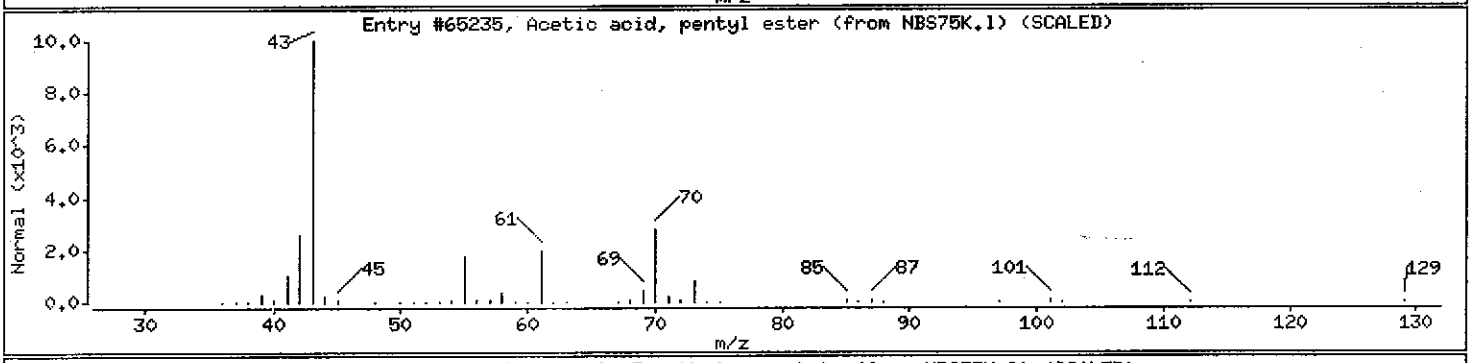
Column phase: DB-624

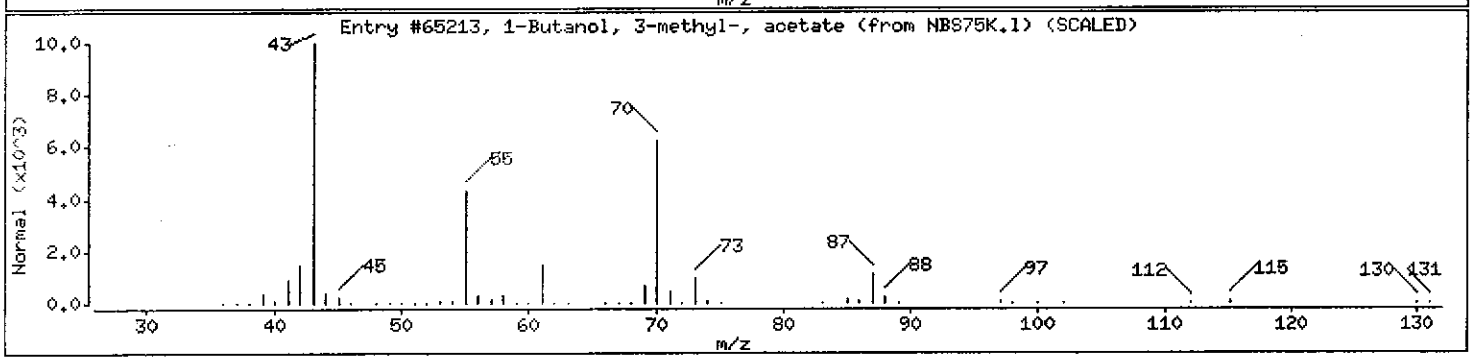
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY.1	7336	90	C7H1402	130
Acetic acid, pentyl ester	628-63-7	NBS75K.1	65235	90	C7H1402	130
1-Butanol, 3-methyl-, acetate	123-92-2	NBS75K.1	65213	40	C7H1402	130









Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 3: Calibration Verification Data

** Calibration Verification Summary Table*
** BFB Tune Information*
** Calibration Verification Standards*

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B071510.B

Lab File ID: B00BFB BFB Injection Date: 07/15/10

Instrument ID: 50MSV5 BFB Injection Time: 1435

GC Column: ID: 2.00 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.1
75	30.0 - 60.0% of mass 95	47.7
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	86.8
175	5.0 - 9.0% of mass 174	6.8 (7.8)1
176	95.0 - 101.0% of mass 174	82.6 (95.2)1
177	5.0 - 9.0% of mass 176	6.0 (7.3)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	CCV	CCV 34B-158/24	B01CCV	07/15/10	1512
02	LCS	456884	B02LCS	07/15/10	1549
03	MB	456883	B03MB	07/15/10	1627
04	5039111007	5039111007	B04	07/15/10	1704
05	5039238014	5039238014	B05	07/15/10	1741
06	5039238015	5039238015	B06	07/15/10	1818
07	5039367002	5039367002	B07	07/15/10	1855
08	5039367001	5039367001	B08	07/15/10	1931
09	5039263001	5039263001	B09	07/15/10	2008
10	5039263011	5039263011	B10	07/15/10	2046
11	5039200001	5039200001	B11	07/15/10	2123
12	5039231008	5039231008	B12	07/15/10	2159
13	MS5039231008	456880	B13	07/15/10	2237
14	MSD503923100	456881	B14	07/15/10	2314
15	5039231009	5039231009	B15	07/15/10	2351
16	5039231010	5039231010	B16	07/16/10	0028
17	5039231011	5039231011	B17	07/16/10	0105
18	5039231012	5039231012	B18	07/16/10	0142
19	5039299002	5039299002	B19	07/16/10	0219
20					
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B071510.B

Instrument ID: 50MSV5 Calibration Date: 07/15/10 Time: 1512

Lab File ID: B01CCV Init. Calib. Date(s): 07/07/10 07/07/10

Heated Purge: (Y/N) N Init. Calib. Times: 1342 1803

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Bromochloromethane	53.0	50.0	AVRG	-6.0	20.0
Chloromethane	53.2	50.0	AVRG	-6.4	20.0
Bromomethane	55.1	50.0	AVRG	-10.2	20.0
Vinyl Chloride	54.0	50.0	AVRG	-8.0	20.0
Chloroethane	53.8	50.0	AVRG	-7.6	20.0
Methylene Chloride	47.9	50.0	LINR	4.2	20.0
1,1-Dichloroethene	49.7	50.0	AVRG	0.6	20.0
1,1-Dichloroethane	49.9	50.0	AVRG	0.2	20.0
1,2-Dichloroethene (trans)	51.2	50.0	AVRG	-2.4	20.0
Chloroform	53.7	50.0	AVRG	-7.4	20.0
1,2-Dichloroethane	57.2	50.0	AVRG	-14.4	20.0
1,1,1-Trichloroethane	51.2	50.0	AVRG	-2.4	20.0
Carbon Tetrachloride	52.1	50.0	AVRG	-4.2	20.0
Bromodichloromethane	51.7	50.0	AVRG	-3.4	20.0
1,2-Dichloropropane	45.7	50.0	AVRG	8.6	20.0
trans-1,3-Dichloropropene	48.1	50.0	AVRG	3.8	20.0
Trichloroethene	49.7	50.0	AVRG	0.6	20.0
Dibromochloromethane	47.3	50.0	AVRG	5.4	20.0
1,1,2-Trichloroethane	47.5	50.0	LINR	5.0	20.0
Benzene	47.2	50.0	AVRG	5.6	20.0
cis-1,3-Dichloropropene	46.8	50.0	AVRG	6.4	20.0
Bromoform	43.5	50.0	LINR	13.0	20.0
Tetrachloroethene	42.6	50.0	AVRG	14.8	20.0
1,1,2,2-Tetrachloroethane	47.2	50.0	AVRG	5.6	20.0
Toluene	44.7	50.0	AVRG	10.6	20.0
Chlorobenzene	45.6	50.0	AVRG	8.8	20.0
Ethylbenzene	46.1	50.0	AVRG	7.8	20.0
Styrene	46.9	50.0	AVRG	6.2	20.0
Trichlorofluoromethane	59.4	50.0	LINR	-18.8	20.0
m&p-Xylene	91.8	100	AVRG	8.2	20.0
1,2-Dichloroethene (cis)	48.6	50.0	AVRG	2.8	20.0
o-Xylene	46.5	50.0	AVRG	7.0	20.0
1,2,3-Trichloropropane	45.7	50.0	AVRG	8.6	20.0
1,3-Dichlorobenzene	45.5	50.0	AVRG	9.0	20.0
1,4-Dichlorobenzene	45.5	50.0	AVRG	9.0	20.0
Dibromomethane	50.1	50.0	AVRG	-0.2	20.0
1,2-Dichlorobenzene	46.1	50.0	AVRG	7.8	20.0

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B071510.B

Instrument ID: 50MSV5 Calibration Date: 07/15/10 Time: 1512

Lab File ID: B01CCV Init. Calib. Date(s): 07/07/10 07/07/10

Heated Purge: (Y/N) N Init. Calib. Times: 1342 1803

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d
Dichlorodifluoromethane	53.0	50.0	AVRG	-6.0	20.0
2,2-Dichloropropane	53.3	50.0	AVRG	-6.6	20.0
1,1-Dichloropropene	49.6	50.0	AVRG	0.8	20.0
1,3-Dichloropropane	45.1	50.0	AVRG	9.8	20.0
1,2-Dibromoethane	47.4	50.0	AVRG	5.2	20.0
1,1,1,2-Tetrachloroethane	46.2	50.0	AVRG	7.6	20.0
Isopropylbenzene	46.4	50.0	AVRG	7.2	20.0
Bromobenzene	46.3	50.0	AVRG	7.4	20.0
n-Propylbenzene	45.3	50.0	AVRG	9.4	20.0
2-Chlorotoluene	44.3	50.0	AVRG	11.4	20.0
4-Chlorotoluene	45.6	50.0	AVRG	8.8	20.0
1,3,5-Trimethylbenzene	45.9	50.0	AVRG	8.2	20.0
tert-Butylbenzene	45.1	50.0	AVRG	9.8	20.0
1,2,4-Trimethylbenzene	46.1	50.0	AVRG	7.8	20.0
sec-Butylbenzene	46.2	50.0	AVRG	7.6	20.0
p-Isopropyltoluene	46.0	50.0	AVRG	8.0	20.0
n-Butylbenzene	48.6	50.0	AVRG	2.8	20.0
1,2-Dibromo-3-chloropropane	49.6	50.0	AVRG	0.8	20.0
1,2,4-Trichlorobenzene	51.7	50.0	AVRG	-3.4	20.0
Hexachlorobutadiene	48.8	50.0	AVRG	2.4	20.0
Naphthalene	50.2	50.0	AVRG	-0.4	20.0
1,2,3-Trichlorobenzene	49.7	50.0	AVRG	0.6	20.0
Acrolein	1080	1000	AVRG	-8.0	20.0
Carbon Disulfide	98.7	100	AVRG	1.3	20.0
Acetone	265	250	LINR	-6.0	20.0
Acrylonitrile	991	1000	AVRG	0.9	20.0
Vinyl Acetate	202	200	AVRG	-1.0	20.0
2-Butanone	252	250	AVRG	-0.8	20.0
2-Chloroethyl vinyl ether	93.3	100	LINR	6.7	20.0
4-Methyl-2-Pentanone	245	250	AVRG	2.0	20.0
2-Hexanone	249	250	AVRG	0.4	20.0
Methyl-tert-butyl ether	100	100	AVRG	0.0	20.0
Iodomethane	91.2	100	LINR	8.8	20.0
trans-1,4-Dichloro-2-butene	57.8	50.0	AVRG	-15.6	20.0
Ethyl Methacrylate	46.3	50.0	AVRG	7.4	20.0
2,methyl-naphthalene	45.1	50.0	LINR	9.8	20.0
n-Hexane	48.3	50.0	AVRG	3.4	20.0

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B071510.B

Instrument ID: 50MSV5 Calibration Date: 07/15/10 Time: 1512

Lab File ID: B01CCV Init. Calib. Date(s): 07/07/10 07/07/10

Heated Purge: (Y/N) N Init. Calib. Times: 1342 1803

GC Column: DB-624 ID: 0.18 (mm)

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	MAX %d	
1,1,2trichlorotrifluoroethan	50.7	50.0	AVRG	-1.4	20.0	
1,2-dichlorotrifluoroethane	51.2	50.0	AVRG	-2.4	20.0	
Tetrahydrofuran	16.8	50.0	AVRG	66.4	20.0	<-
allyl chloride	104	100	AVRG	-4.0	20.0	
Diethyl ether	49.1	50.0	AVRG	1.8	20.0	
Isobutyl alcohol	48.9	50.0	AVRG	2.2	20.0	
Methyl methacrylate	44.7	50.0	LINR	10.6	20.0	
Propionitrile	48.8	50.0	AVRG	2.4	20.0	
tert-Butyl Alcohol	125	100	AVRG	-25.0	20.0	<-
2,2,4-Trimethylpentane	46.9	50.0	AVRG	6.2	20.0	
Methyl Acetate	52.3	50.0	AVRG	-4.6	20.0	
Cyclohexane	48.9	50.0	AVRG	2.2	20.0	
Methylcyclohexane	47.9	50.0	AVRG	4.2	20.0	
Acetonitrile	1140	1000	AVRG	-14.0	20.0	
Chloroprene	53.2	50.0	AVRG	-6.4	20.0	
Methacrylonitrile	311	250	AVRG	-24.4	20.0	<-
1,4-Dioxane	0.000	1000	AVRG	100.0	20.0	<-
Toluene-d8	48.5	50.0	AVRG	3.0	20.0	
4-Bromofluorobenzene	50.2	50.0	AVRG	-0.4	20.0	
Dibromofluoromethane (S)	55.5	50.0	AVRG	-11.0	20.0	

Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B00BFB.D

Date : 15-JUL-2010 14:35

Client ID: bfb050

Instrument: 50MSV5.i

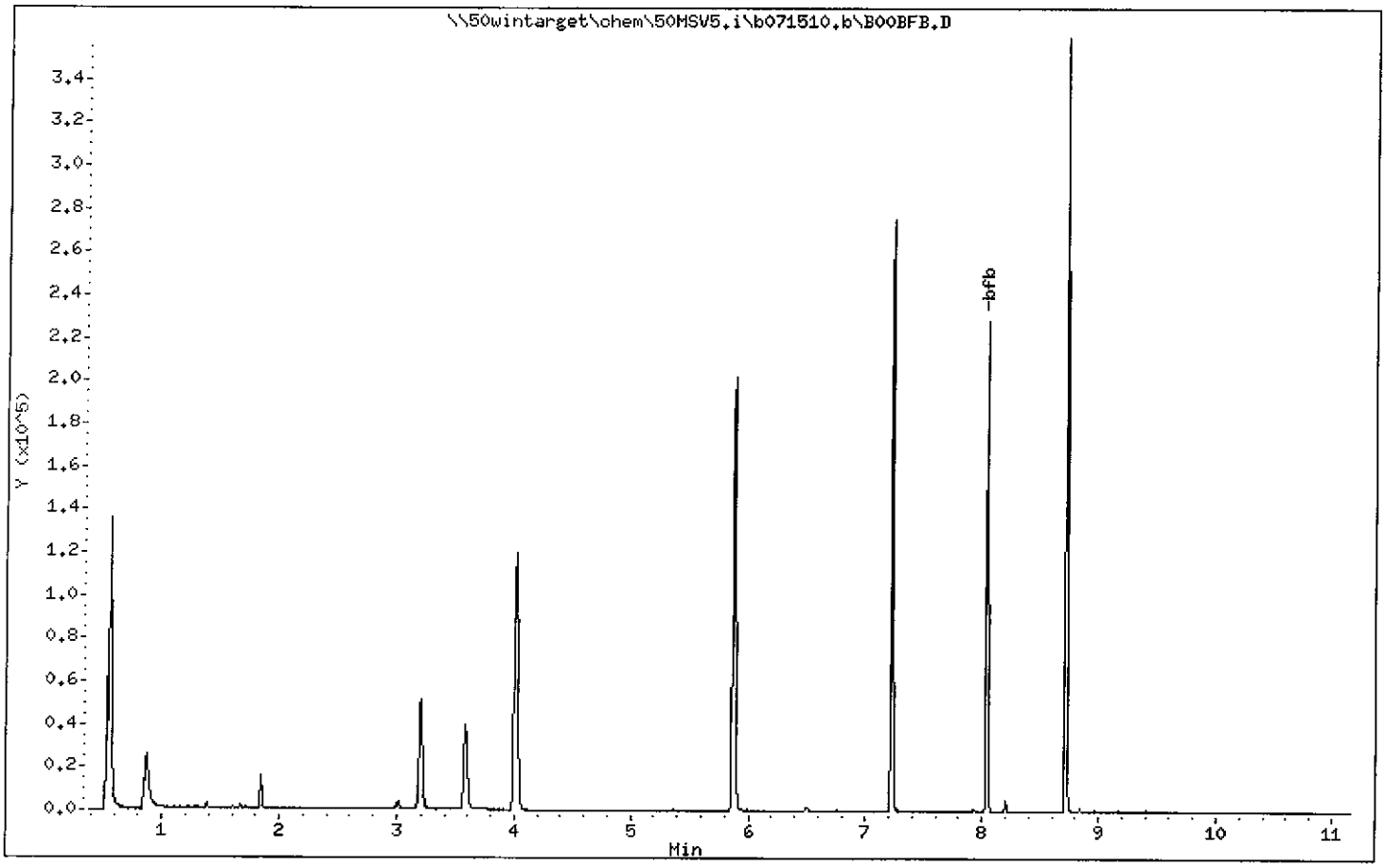
Sample Info: bfb 34B-199

Volume Injected (uL): 1.0

Operator: rsr

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B00BFB.D

Date : 15-JUL-2010 14:35

Client ID: bfb050

Instrument: 50MSV5.i

Sample Info: bfb 34B-199

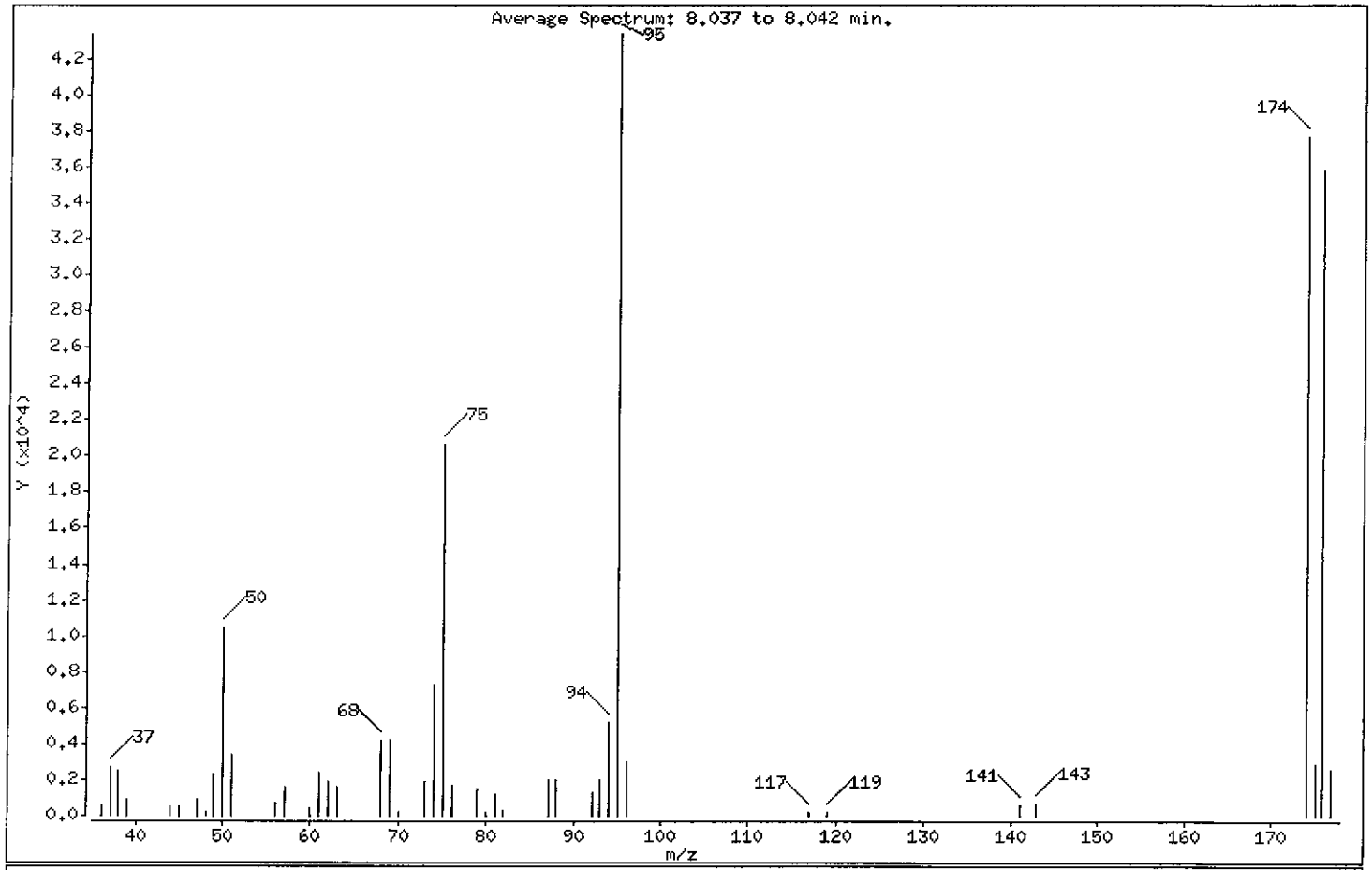
Volume Injected (uL): 1.0

Operator: rsr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.12
75	30.00 - 60.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	6.82
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	86.81
175	5.00 - 9.00% of mass 174	6.76 (7.79)
176	95.00 - 101.00% of mass 174	82.64 (95.20)
177	5.00 - 9.00% of mass 176	6.05 (7.32)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B00BFB.D

Date : 15-JUL-2010 14:35

Client ID: bfb050 Instrument: 50MSV5.i

Sample Info: bfb 34B-199

Volume Injected (uL): 1.0 Operator: rsr

Column phase: Column diameter: 2.00

Data File: B00BFB.D
Spectrum: Average Spectrum: 8.037 to 8.042 min.
Location of Maximum: 95.00
Number of points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	566	56.00	688	75.00	20664	95.00	43360
37.00	2715	57.00	1568	76.00	1723	96.00	2956
38.00	2445	60.00	411	79.00	1499	117.00	153
39.00	928	61.00	2433	80.00	203	119.00	156
44.00	467	62.00	1920	81.00	1220	141.00	604
45.00	467	63.00	1614	82.00	343	143.00	657
47.00	935	68.00	4200	87.00	2011	174.00	37640
48.00	186	69.00	4160	88.00	2030	175.00	2931
49.00	2307	70.00	157	92.00	1318	176.00	35832
50.00	10460	73.00	1877	93.00	1971	177.00	2622
51.00	3410	74.00	7233	94.00	5220		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b071510.b\B01CCV.D
Lab Smp Id: ccv 34B-158/243 Client Smp ID: ccv
Inj Date : 15-JUL-2010 15:12
Operator : rsr Inst ID: 50MSV5.i
Smp Info : ccv 34B-158/243
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Meth Date : 26-Jul-2010 14:36 rrenbarger Quant Type: ISTD
Cal Date : 07-JUL-2010 18:03 Cal File: B08.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	51837	50.0000	53.0
2 Chloromethane	50	1.038	1.033	(0.259)	75136	50.0000	53.2
3 Vinyl Chloride	62	1.059	1.059	(0.264)	49010	50.0000	54.0
4 Bromomethane	94	1.200	1.200	(0.299)	29138	50.0000	55.1
139 Methyl Acetate	43	1.776	1.776	(0.442)	24144	50.0000	52.3
5 Chloroethane	64	1.242	1.242	(0.310)	24348	50.0000	53.8
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	74144	50.0000	59.4
7 Diethyl ether	74	1.472	1.472	(0.367)	10277	50.0000	49.1
8 Acrolein	56	1.535	1.535	(0.382)	62536	1000.00	1080
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	26023	50.0000	49.7
10 1,1,2trichlorotrifluoroethane	101	1.587	1.587	(0.396)	31121	50.0000	50.7
11 Acetone	43	1.608	1.608	(0.401)	26227	250.000	265
12 Iodomethane	142	1.676	1.676	(0.418)	95327	100.000	91.2
13 Carbon Disulfide	76	1.718	1.718	(0.428)	153748	100.000	98.7
142 Acetonitrile	39	1.770	1.770	(0.441)	83062	1000.00	1140
14 allyl chloride	41	1.776	1.770	(0.442)	123907	100.000	104
15 Methylene Chloride	84	1.838	1.838	(0.458)	27381	50.0000	47.9
16 Acrylonitrile	53	1.980	1.980	(0.493)	138613	1000.00	991
17 tert-Butyl Alcohol	59	1.886	1.886	(0.470)	3766	100.000	125
18 1,2-Dichloroethene (trans)	96	2.001	2.001	(0.498)	28697	50.0000	51.2
19 Methyl-tert-butyl ether	73	1.995	2.001	(0.497)	110614	100.000	100
20 n-Hexane	57	2.173	2.173	(0.541)	55659	50.0000	48.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.278	2.273	(0.567)	58233	50.0000	49.9
	23 Vinyl Acetate	43	2.304	2.304	(0.574)	206941	200.000	202
	143 Chloroprene	53	2.341	2.341	(0.583)	64651	50.0000	53.2
	24 2,2-Dichloropropane	77	2.733	2.733	(0.681)	45061	50.0000	53.3
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	30652	50.0000	48.6
	26 2-Butanone	43	2.749	2.749	(0.685)	53273	250.000	252
	27 Propionitrile	54	2.801	2.811	(0.698)	2519	50.0000	48.8
	144 Methacrylonitrile	41	2.947	2.942	(0.734)	20607	250.000	311
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	34761	50.0000	51.2
	29 Bromochloromethane	49	2.947	2.947	(0.734)	32499	50.0000	53.0
	30 Tetrahydrofuran	42	3.010	3.005	(0.750)	9213	50.0000	16.8
	31 Chloroform	83	3.031	3.031	(0.755)	55461	50.0000	53.7
$	32 Dibromofluoromethane (S)	113	3.193	3.193	(0.795)	35055	50.0000	55.5
	33 1,1,1-Trichloroethane	97	3.214	3.219	(0.801)	53223	50.0000	51.2
	35 Carbon Tetrachloride	117	3.397	3.402	(0.846)	50732	50.0000	52.1
	36 1,1-Dichloropropene	75	3.397	3.402	(0.846)	40541	50.0000	49.6
	37 Isobutyl alcohol	43	3.763	3.763	(0.937)	31949	50.0000	48.9
	140 Cyclohexane	56	3.277	3.272	(0.816)	61933	50.0000	48.9
	38 Benzene	78	3.648	3.648	(0.909)	102530	50.0000	47.2
	39 1,2-Dichloroethane	62	3.680	3.674	(0.917)	42693	50.0000	57.2
	138 2,2,4-Trimethylpentane	57	3.763	3.763	(0.937)	148944	50.0000	46.9
	141 Methylcyclohexane	55	4.684	4.689	(1.167)	58300	50.0000	47.9
*	40 Fluorobenzene	96	4.014	4.014	(1.000)	126863	50.0000	
	41 Trichloroethene	95	4.469	4.469	(1.113)	34690	50.0000	49.7
	42 1,2-Dichloropropane	63	4.736	4.736	(1.180)	34439	50.0000	45.7
	43 Dibromomethane	93	4.872	4.872	(1.214)	16904	50.0000	50.1
	44 Methyl methacrylate	69	4.935	4.940	(1.229)	11838	50.0000	44.7
	45 Bromodichloromethane	83	5.076	5.076	(1.264)	42101	50.0000	51.7
	46 2-Chloroethyl vinyl ether	63	5.463	5.458	(0.757)	22494	100.000	93.3
	47 cis-1,3-Dichloropropene	75	5.589	5.594	(0.774)	44734	50.0000	46.8
	48 4-Methyl-2-Pentanone	43	5.798	5.798	(0.803)	144664	250.000	245
$	49 Toluene-d8	98	5.876	5.876	(0.814)	133450	50.0000	48.5
	50 Toluene	91	5.944	5.944	(0.823)	138106	50.0000	44.7
	51 trans-1,3-Dichloropropene	75	6.216	6.216	(0.861)	38792	50.0000	48.1
	52 Ethyl Methacrylate	69	6.357	6.357	(0.880)	27356	50.0000	46.3
	53 1,1,2-Trichloroethane	83	6.399	6.399	(0.886)	21087	50.0000	47.5
	54 Tetrachloroethene	166	6.514	6.514	(0.902)	45394	50.0000	42.6
	55 1,3-Dichloropropane	76	6.556	6.556	(0.908)	39613	50.0000	45.1
	56 2-Hexanone	43	6.671	6.671	(0.924)	101850	250.000	249
	57 Dibromochloromethane	129	6.755	6.750	(0.936)	35084	50.0000	47.3
	58 1,2-Dibromoethane	107	6.833	6.833	(0.946)	27362	50.0000	47.4
*	59 Chlorobenzene-d5	117	7.220	7.220	(1.000)	115714	50.0000	
	60 Chlorobenzene	112	7.241	7.241	(1.003)	110327	50.0000	45.6
	61 1,1,1,2-Tetrachloroethane	131	7.315	7.315	(1.013)	41935	50.0000	46.2
	62 Ethylbenzene	106	7.335	7.335	(1.016)	60532	50.0000	46.1
	63 m&p-Xylene	106	7.424	7.424	(1.028)	145779	100.000	91.8
	65 o-Xylene	106	7.702	7.702	(1.067)	72795	50.0000	46.5
	66 Styrene	104	7.712	7.712	(1.068)	118354	50.0000	46.9
	67 Bromoform	173	7.827	7.827	(0.897)	21346	50.0000	43.5
	68 Isopropylbenzene	105	7.947	7.947	(1.101)	195301	50.0000	46.4
	69 trans-1,4-Dichloro-2-butene	53	8.178	8.178	(1.133)	13112	50.0000	57.8
$	70 4-Bromofluorobenzene	95	8.042	8.042	(1.114)	53942	50.0000	50.2
	71 Bromobenzene	77	8.125	8.125	(1.125)	64844	50.0000	46.3
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.933)	35320	50.0000	47.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.162	8.162	(0.936)	36013	50.0000	45.7
74 n-Propylbenzene	91	8.204	8.204	(0.941)	233965	50.0000	45.3
75 2-Chlorotoluene	91	8.251	8.251	(0.946)	130635	50.0000	44.3
76 4-Chlorotoluene	126	8.319	8.319	(0.954)	55518	50.0000	45.6
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	168539	50.0000	45.9
78 tert-Butylbenzene	119	8.502	8.502	(0.975)	213503	50.0000	45.1
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.977)	177692	50.0000	46.1
80 sec-Butylbenzene	105	8.622	8.622	(0.989)	239273	50.0000	46.2
81 1,3-Dichlorobenzene	146	8.685	8.680	(0.996)	105990	50.0000	45.5
* 82 1,4-Dichlorobenzene-d4	152	8.721	8.721	(1.000)	74752	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	220413	50.0000	46.0
84 1,4-Dichlorobenzene	146	8.732	8.732	(1.001)	109693	50.0000	45.5
85 1,2-Dichlorobenzene	146	8.936	8.936	(1.025)	99473	50.0000	46.1
86 n-Butylbenzene	91	8.920	8.920	(1.023)	190142	50.0000	48.6
87 1,2-Dibromo-3-chloropropane	155	9.344	9.339	(1.071)	5991	50.0000	49.6
88 1,2,4-Trichlorobenzene	180	9.762	9.752	(1.119)	74061	50.0000	51.7
89 Hexachlorobutadiene	225	9.841	9.830	(1.128)	46033	50.0000	48.8
90 Naphthalene	128	9.893	9.877	(1.134)	136276	50.0000	50.2
91 1,2,3-Trichlorobenzene	180	10.013	10.003	(1.148)	64034	50.0000	49.7
92 2,methyl-naphthalene	142	10.500	10.489	(1.204)	74733	50.0000	45.1

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B01CCV.D
Lab Smp Id: ccv 34B-158/243
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Misc Info:

Calibration Date: 15-JUL-2010
Calibration Time: 02:29
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	168934	84467	337868	126863	-24.90
59 Chlorobenzene-d5	150139	75070	300278	115714	-22.93
82 1,4-Dichlorobenze	91936	45968	183872	74752	-18.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.13
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.07
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.06

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

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i Injection Date: 15-JUL-2010 15:12
Lab File ID: B01CCV.D Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 13:42 18:03
Lab Sample ID: ccv 34B-158/243 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.38563	0.40861	0.40861	0.100	5.95683	20.00000	Averaged	
2 Chloromethane	0.55607	0.59226	0.59226	0.100	6.50859	20.00000	Averaged	
3 Vinyl Chloride	0.35761	0.38632	0.38632	0.100	8.02745	20.00000	Averaged	
4 Bromomethane	0.20836	0.22968	0.22968	0.100	10.23010	20.00000	Averaged	
139 Methyl Acetate	0.18197	0.19032	0.19032	0.100	4.58773	20.00000	Averaged	
5 Chloroethane	0.17844	0.19192	0.19192	0.100	7.55336	20.00000	Averaged	
6 Trichlorofluoromethane	50.00000	59.42632	0.58444	0.100	18.85264	0.000e+000	Linear	
7 Diethyl ether	0.08256	0.08101	0.08101	0.100	-1.87324	20.00000	Averaged	
8 Acrolein	0.02287	0.02465	0.02465	0.100	7.77394	20.00000	Averaged	
9 1,1-Dichloroethene	0.20617	0.20513	0.20513	0.100	-0.50535	20.00000	Averaged	
10 1,1,2trichlorotrifluoroetha	0.24201	0.24531	0.24531	0.100	1.36499	20.00000	Averaged	
11 Acetone	250	265	0.04135	0.100	5.90979	0.000e+000	Linear	
12 Iodomethane	100	91.19840	0.37571	0.100	-8.80160	0.000e+000	Linear	
13 Carbon Disulfide	0.61382	0.60596	0.60596	0.100	-1.27991	20.00000	Averaged	
142 Acetonitrile	0.02872	0.03274	0.03274	0.100	13.98126	20.00000	Averaged	
14 allyl chloride	0.47168	0.48835	0.48835	0.100	3.53419	20.00000	Averaged	
15 Methylene Chloride	50.00000	47.88976	0.21583	0.100	-4.22048	0.000e+000	Linear	
16 Acrylonitrile	0.05512	0.05463	0.05463	0.100	-0.88341	20.00000	Averaged	
17 tert-Butyl Alcohol	0.01191	0.01484	0.01484	0.100	24.66254	20.00000	Averaged	<-
18 1,2-Dichloroethene (trans)	0.22098	0.22620	0.22620	0.100	2.36212	20.00000	Averaged	
19 Methyl-tert-butyl ether	0.43393	0.43596	0.43596	0.100	0.46861	20.00000	Averaged	
20 n-Hexane	0.45412	0.43873	0.43873	0.100	-3.38785	20.00000	Averaged	
21 1,1-Dichloroethane	0.46008	0.45902	0.45902	0.100	-0.23048	20.00000	Averaged	
23 Vinyl Acetate	0.40348	0.40780	0.40780	0.100	1.07137	20.00000	Averaged	
143 Chloroprene	0.47865	0.50961	0.50961	0.100	6.46917	20.00000	Averaged	
24 2,2-Dichloropropane	0.33307	0.35519	0.35519	0.100	6.64094	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	0.24869	0.24161	0.24161	0.100	-2.84531	20.00000	Averaged	
26 2-Butanone	0.08317	0.08399	0.08399	0.100	0.97662	20.00000	Averaged	
27 Propionitrile	0.02036	0.01986	0.01986	0.100	-2.49743	20.00000	Averaged	
144 Methacrylonitrile	0.02610	0.03249	0.03249	0.100	24.45498	20.00000	Averaged	<-
28 1,2-dichlorotrifluoroethane	0.26738	0.27400	0.27400	0.100	2.47702	20.00000	Averaged	
29 Bromochloromethane	0.24188	0.25617	0.25617	0.100	5.90863	20.00000	Averaged	
30 Tetrahydrofuran	0.21592	0.07262	0.07262	0.100	-66.36699	20.00000	Averaged	<-
31 Chloroform	0.40673	0.43717	0.43717	0.100	7.48498	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.24874	0.27632	0.27632	0.100	11.08807	20.00000	Averaged	
33 1,1,1-Trichloroethane	0.40997	0.41953	0.41953	0.100	2.33258	20.00000	Averaged	
35 Carbon Tetrachloride	0.38361	0.39990	0.39990	0.100	4.24478	20.00000	Averaged	
36 1,1-Dichloropropene	0.32202	0.31957	0.31957	0.100	-0.76249	20.00000	Averaged	
37 Isobutyl alcohol	0.25751	0.25184	0.25184	0.100	-2.20112	20.00000	Averaged	
140 Cyclohexane	0.49943	0.48819	0.48819	0.100	-2.25187	20.00000	Averaged	
38 Benzene	0.85608	0.80819	0.80819	0.100	-5.59379	20.00000	Averaged	
39 1,2-Dichloroethane	0.29393	0.33653	0.33653	0.100	14.49404	20.00000	Averaged	
138 2,2,4-Trimethylpentane	1.25240	1.17405	1.17405	0.100	-6.25552	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i Injection Date: 15-JUL-2010 15:12
Lab File ID: B01CCV.D Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 13:42 18:03
Lab Sample ID: ccv 34B-158/243 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 Methylcyclohexane	0.48001	0.45955	0.45955	0.100	-4.26283	20.00000	Averaged
41 Trichloroethene	0.27499	0.27344	0.27344	0.100	-0.56378	20.00000	Averaged
42 1,2-Dichloropropane	0.29694	0.27147	0.27147	0.100	-8.57771	20.00000	Averaged
43 Dibromomethane	0.13290	0.13325	0.13325	0.100	0.26045	20.00000	Averaged
44 Methyl methacrylate	50.00000	44.69343	0.09331	0.100	-10.61314	0.000e+000	Linear
45 Bromodichloromethane	0.32070	0.33186	0.33186	0.100	3.48056	20.00000	Averaged
46 2-Chloroethyl vinyl ether	100	93.31963	0.09720	0.100	-6.68037	0.000e+000	Linear
145 1,4-Dioxane	0.00009	++++	++++	0.100	++++	20.00000	Averaged <-
47 cis-1,3-Dichloropropene	0.41297	0.38659	0.38659	0.100	-6.38874	20.00000	Averaged
48 4-Methyl-2-Pentanone	0.25498	0.25004	0.25004	0.100	-1.93804	20.00000	Averaged
$ 49 Toluene-d8	1.18897	1.15327	1.15327	0.100	-3.00256	20.00000	Averaged
50 Toluene	1.33611	1.19351	1.19351	0.100	-10.67288	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.34853	0.33524	0.33524	0.100	-3.81350	20.00000	Averaged
52 Ethyl Methacrylate	0.25524	0.23641	0.23641	0.100	-7.37664	20.00000	Averaged
53 1,1,2-Trichloroethane	50.00000	47.48287	0.18223	0.100	-5.03426	0.000e+000	Linear
54 Tetrachloroethene	0.46049	0.39229	0.39229	0.100	-14.80854	20.00000	Averaged
55 1,3-Dichloropropane	0.37921	0.34234	0.34234	0.100	-9.72414	20.00000	Averaged
56 2-Hexanone	0.17641	0.17604	0.17604	0.100	-0.21400	20.00000	Averaged
57 Dibromochloromethane	0.32073	0.30320	0.30320	0.100	-5.46598	20.00000	Averaged
58 1,2-Dibromoethane	0.24919	0.23646	0.23646	0.100	-5.10608	20.00000	Averaged
60 Chlorobenzene	1.04563	0.95345	0.95345	0.300	-8.81653	20.00000	Averaged
61 1,1,1,2-Tetrachloroethane	0.39251	0.36240	0.36240	0.100	-7.66994	20.00000	Averaged
62 Ethylbenzene	0.56726	0.52312	0.52312	0.100	-7.78172	20.00000	Averaged
63 m&p-Xylene	0.68652	0.62991	0.62991	0.100	-8.24604	20.00000	Averaged
65 o-Xylene	0.67702	0.62909	0.62909	0.100	-7.07846	20.00000	Averaged
66 Styrene	1.08955	1.02281	1.02281	0.100	-6.12480	20.00000	Averaged
67 Bromoform	50.00000	43.50719	0.28556	0.100	-12.98561	0.000e+000	Linear
68 Isopropylbenzene	1.82019	1.68779	1.68779	0.100	-7.27395	20.00000	Averaged
69 trans-1,4-Dichloro-2-butene	0.09795	0.11331	0.11331	0.100	15.68956	20.00000	Averaged
$ 70 4-Bromofluorobenzene	0.46398	0.46617	0.46617	0.100	0.47035	20.00000	Averaged
71 Bromobenzene	0.60483	0.56038	0.56038	0.100	-7.34880	20.00000	Averaged
72 1,1,2,2-Tetrachloroethane	0.50081	0.47250	0.47250	0.300	-5.65435	20.00000	Averaged
73 1,2,3-Trichloropropane	0.52749	0.48177	0.48177	0.100	-8.66871	20.00000	Averaged
74 n-Propylbenzene	3.45295	3.12988	3.12988	0.100	-9.35617	20.00000	Averaged
75 2-Chlorotoluene	1.97361	1.74758	1.74758	0.100	-11.45255	20.00000	Averaged
76 4-Chlorotoluene	0.81469	0.74270	0.74270	0.100	-8.83704	20.00000	Averaged
77 1,3,5-Trimethylbenzene	2.45632	2.25464	2.25464	0.100	-8.21073	20.00000	Averaged
78 tert-Butylbenzene	3.16892	2.85615	2.85615	0.100	-9.86992	20.00000	Averaged
79 1,2,4-Trimethylbenzene	2.57969	2.37709	2.37709	0.100	-7.85375	20.00000	Averaged
80 sec-Butylbenzene	3.46386	3.20089	3.20089	0.100	-7.59181	20.00000	Averaged
81 1,3-Dichlorobenzene	1.55910	1.41789	1.41789	0.100	-9.05732	20.00000	Averaged
83 p-Isopropyltoluene	3.20595	2.94859	2.94859	0.100	-8.02769	20.00000	Averaged

Pace Analytical Services, Inc.

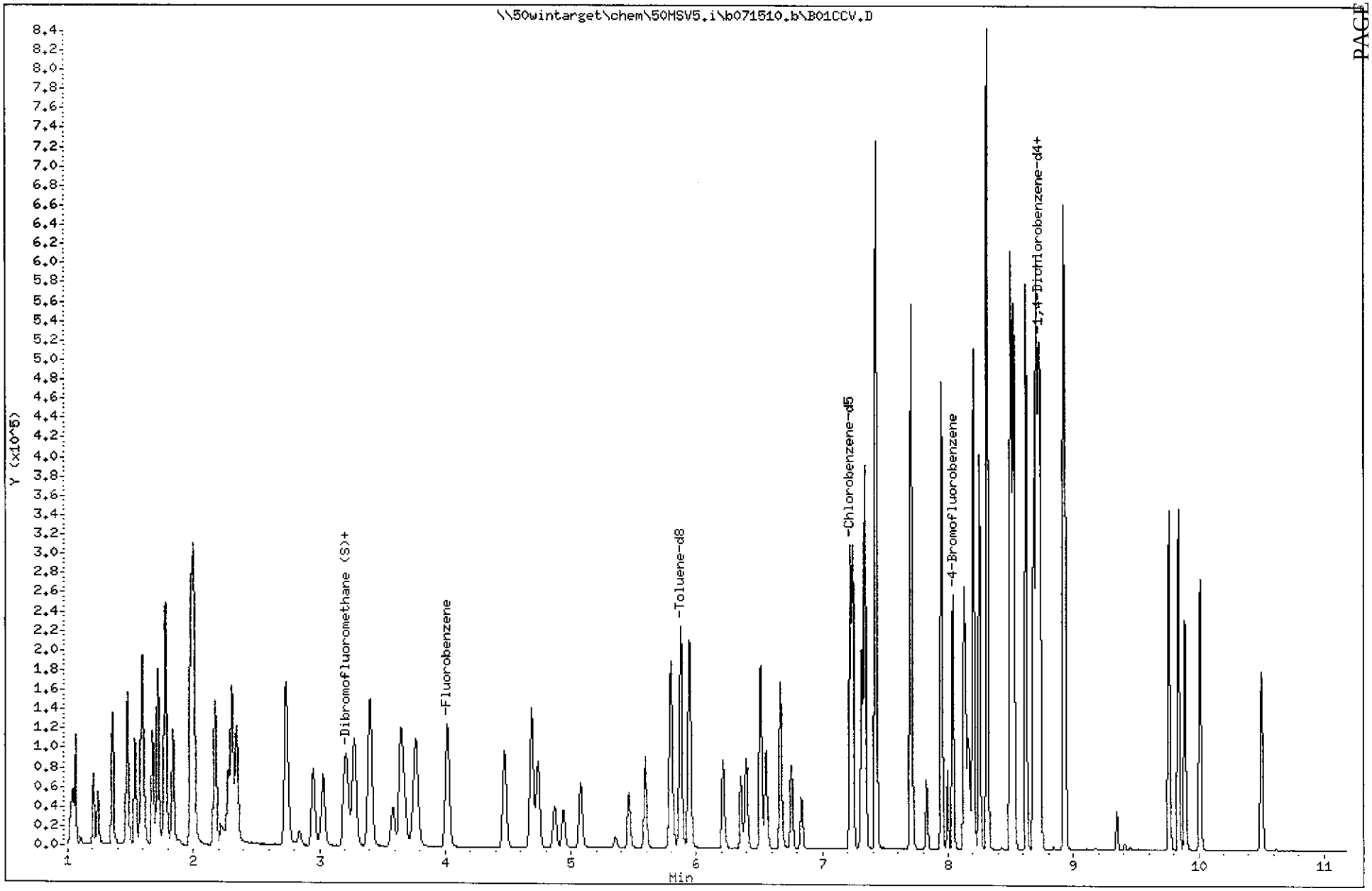
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i Injection Date: 15-JUL-2010 15:12
Lab File ID: B01CCV.D Init. Cal. Date(s): 07-JUL-2010 07-JUL-2010
Analysis Type: WATER Init. Cal. Times: 13:42 18:03
Lab Sample ID: ccv 34B-158/243 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
84 1,4-Dichlorobenzene	1.61210	1.46743	1.46743	0.100	-8.97445	20.00000	Averaged
85 1,2-Dichlorobenzene	1.44194	1.33071	1.33071	0.100	-7.71443	20.00000	Averaged
86 n-Butylbenzene	2.61747	2.54364	2.54364	0.100	-2.82075	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	0.08084	0.08015	0.08015	0.100	-0.86383	20.00000	Averaged
88 1,2,4-Trichlorobenzene	0.95763	0.99076	0.99076	0.100	3.45878	20.00000	Averaged
89 Hexachlorobutadiene	0.63019	0.61581	0.61581	0.100	-2.28194	20.00000	Averaged
90 Naphthalene	1.81676	1.82304	1.82304	0.100	0.34562	20.00000	Averaged
91 1,2,3-Trichlorobenzene	0.86110	0.85662	0.85662	0.100	-0.52028	20.00000	Averaged
92 2,methyl-naphthalene	50.00000	45.12851	0.99975	0.100	-9.74298	0.000e+000	Linear

Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B01CCV.D
Date : 15-JUL-2010 15:12
Client ID: ccv
Sample Info: ccv 34B-158/243
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsr
Column diameter: 0.18



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 4: Quality Control Data

**** Laboratory Control Samples (LCS)***
**** Matrix Spike and Spike Duplicate Samples (MS/MSD)***

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: Allison IN000473.0020
Pace Project No.: 5039200

QB Batch: MSV/25359 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	95			69-136		50	47.7		ug/L	07/15/10			
1,1,2,2-Tetrachloroethane	82			69-131		50	41.2		ug/L	07/15/10			
1,1,2-Trichloroethane	87			77-132		50	43.3		ug/L	07/15/10			
1,1,2-Trichlorotrifluoroethane	91			70-130		50	45.7		ug/L	07/15/10			
1,1-Dichloroethane	92			67-133		50	46.0		ug/L	07/15/10			
1,1-Dichloroethene	100			63-128		50	49.9		ug/L	07/15/10			
1,2,4-Trichlorobenzene	88			60-130		50	43.9		ug/L	07/15/10			
1,2-Dibromo-3-chloropropane	89			61-125		50	44.5		ug/L	07/15/10			
1,2-Dibromoethane (EDB)	91			75-126		50	45.4		ug/L	07/15/10			
1,2-Dichlorobenzene	83			76-124		50	41.7		ug/L	07/15/10			
1,2-Dichloroethane	104			69-139		50	52.2		ug/L	07/15/10			
1,2-Dichloropropane	86			76-129		50	42.8		ug/L	07/15/10			
1,3-Dichlorobenzene	86			76-125		50	42.9		ug/L	07/15/10			
1,4-Dichlorobenzene	84			75-122		50	41.8		ug/L	07/15/10			
2-Butanone (MEK)	115			47-189		250	289		ug/L	07/15/10			
2-Hexanone	110			57-167		250	274		ug/L	07/15/10			
4-Methyl-2-pentanone (MIBK)	85			61-135		250	211		ug/L	07/15/10			
Acetone	129			30-170		250	324		ug/L	07/15/10			
Benzene	88			78-127		50	43.8		ug/L	07/15/10			
Bromodichloromethane	93			69-133		50	46.4		ug/L	07/15/10			
Bromoform	79			60-127		50	39.6		ug/L	07/15/10			
Bromomethane	87			30-170		50	43.5		ug/L	07/15/10			
Carbon disulfide	92			58-152		100	91.9		ug/L	07/15/10			
Carbon tetrachloride	96			62-143		50	48.2		ug/L	07/15/10			
Chlorobenzene	83			75-123		50	41.4		ug/L	07/15/10			
Chloroethane	90			56-153		50	44.9		ug/L	07/15/10			
Chloroform	99			74-131		50	49.5		ug/L	07/15/10			
Chloromethane	76			35-147		50	38.2		ug/L	07/15/10			
cis-1,2-Dichloroethene	96			74-128		50	47.9		ug/L	07/15/10			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: Allison IN000473.0020
Pace Project No.: 5039200

QB Batch: MSV/25359 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
cis-1,3-Dichloropropene	87			58-123		50	43.3		ug/L	07/15/10			
Cyclohexane	91			63-134		50	ND		ug/L	07/15/10			
Dibromochloromethane	86			66-131		50	43.2		ug/L	07/15/10			
Dichlorodifluoromethane	64			30-170		50	32.1		ug/L	07/15/10			
Ethylbenzene	83			81-126		50	41.7		ug/L	07/15/10			
Isopropylbenzene (Cumene)	86			80-130		50	42.8		ug/L	07/15/10			
Methyl acetate	128			30-170		50	64.1		ug/L	07/15/10			
Methyl-tert-butyl ether	98			66-147		100	98.2		ug/L	07/15/10			
Methylcyclohexane	89			65-135		50	ND		ug/L	07/15/10			
Methylene chloride	92			32-164		50	45.8		ug/L	07/15/10			
Styrene	86			74-128		50	43.1		ug/L	07/15/10			
Tetrachloroethene	75			60-119		50	37.4		ug/L	07/15/10			
Toluene	84			75-129		50	42.2		ug/L	07/15/10			
trans-1,2-Dichloroethene	102			71-126		50	51.0		ug/L	07/15/10			
trans-1,3-Dichloropropene	87			54-123		50	43.5		ug/L	07/15/10			
Trichloroethene	93			74-130		50	46.4		ug/L	07/15/10			
Trichlorofluoromethane	94			62-150		50	46.9		ug/L	07/15/10			
Vinyl chloride	82			55-141		50	40.9		ug/L	07/15/10			
Xylene (Total)	85			76-132		150	128		ug/L	07/15/10			

Type	Sample
LCS	456879

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b071510.b\B02LCS.D
Lab Smp Id: 456884 Client Smp ID: lcs
Inj Date : 15-JUL-2010 15:49
Operator : rsr Inst ID: 50MSV5.i
Smp Info : lcs 34B-165
Misc Info : 25360
Comment :
Method : \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Meth Date : 26-Jul-2010 14:36 rrenbarger Quant Type: ISTD
Cal Date : 07-JUL-2010 18:03 Cal File: B08.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.934	0.934	(0.233)	32132	32.1480	32.1
2 Chloromethane	50	1.033	1.033	(0.257)	55049	38.1956	38.2
3 Vinyl Chloride	62	1.059	1.059	(0.264)	37952	40.9459	40.9
4 Bromomethane	94	1.201	1.200	(0.299)	23501	43.5165	43.5
139 Methyl Acetate	43	1.776	1.776	(0.442)	30238	64.1138	64.1
5 Chloroethane	64	1.242	1.242	(0.310)	20754	44.8734	44.9
6 Trichlorofluoromethane	101	1.352	1.352	(0.337)	60702	46.9460	46.9
7 Diethyl ether	74	1.473	1.472	(0.367)	9187	42.9360	42.9
8 Acrolein	56	1.535	1.535	(0.383)	54088	912.518	912
9 1,1-Dichloroethene	96	1.593	1.593	(0.397)	26649	49.8712	49.9
10 1,1,2trichlorotrifluoroethane	101	1.588	1.587	(0.396)	28696	45.7491	45.7
11 Acetone	43	1.609	1.608	(0.401)	31951	323.645	324
12 Iodomethane	142	1.677	1.676	(0.418)	90158	84.5165	84.5
13 Carbon Disulfide	76	1.718	1.718	(0.428)	146280	91.9470	91.9
142 Acetonitrile	39	1.771	1.770	(0.441)	70967	953.332	953
14 allyl chloride	41	1.771	1.770	(0.441)	108555	88.7962	88.8
15 Methylene Chloride	84	1.839	1.838	(0.458)	26924	45.8255	45.8
16 Acrylonitrile	53	1.980	1.980	(0.493)	137611	963.280	963
17 tert-Butyl Alcohol	59	1.886	1.886	(0.470)	3291	106.645	107(Q)
18 1,2-Dichloroethene (trans)	96	2.001	2.001	(0.498)	29191	50.9658	51.0
19 Methyl-tert-butyl ether	73	2.001	2.001	(0.498)	110472	98.2266	98.2
20 n-Hexane	57	2.173	2.173	(0.541)	56775	48.2370	48.2
21 1,1-Dichloroethane	63	2.278	2.273	(0.568)	54909	46.0468	46.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	23 Vinyl Acetate	43	2.304	2.304	(0.574)	162948	155.818	156
	143 Chloroprene	53	2.341	2.341	(0.583)	62906	50.7069	50.7
	24 2,2-Dichloropropane	77	2.733	2.733	(0.681)	43617	50.5249	50.5
	25 1,2-Dichloroethene (cis)	96	2.728	2.728	(0.680)	30859	47.8755	47.9
	26 2-Butanone	43	2.749	2.749	(0.685)	62208	288.574	288
	144 Methacrylonitrile	41	2.947	2.942	(0.734)	14391	212.709	213
	28 1,2-dichlorotrifluoroethane	67	1.467	1.467	(0.366)	34246	49.4164	49.4
	29 Bromochloromethane	49	2.947	2.947	(0.734)	31365	50.0303	50.0
	30 Tetrahydrofuran	42	3.005	3.005	(0.749)	9065	16.1979	16.2(R)
	31 Chloroform	83	3.031	3.031	(0.755)	52224	49.5401	49.5
$	32 Dibromofluoromethane (S)	113	3.193	3.193	(0.795)	35618	55.2476	55.2
	33 1,1,1-Trichloroethane	97	3.219	3.219	(0.802)	50652	47.6692	47.7
	35 Carbon Tetrachloride	117	3.397	3.402	(0.846)	47955	48.2318	48.2
	36 1,1-Dichloropropene	75	3.403	3.402	(0.848)	38555	46.1944	46.2
	37 Isobutyl alcohol	43	3.800	3.763	(0.947)	274914	411.908	412(QR)
	140 Cyclohexane	56	3.277	3.272	(0.816)	58881	45.4871	45.5
	38 Benzene	78	3.648	3.648	(0.909)	97078	43.7519	43.8
	39 1,2-Dichloroethane	62	3.680	3.674	(0.917)	39762	52.1941	52.2
	138 2,2,4-Trimethylpentane	57	3.763	3.763	(0.937)	139342	42.9271	42.9
	141 Methylcyclohexane	55	4.684	4.689	(1.167)	55616	44.7032	44.7
*	40 Fluorobenzene	96	4.014	4.014	(1.000)	129592	50.0000	
	41 Trichloroethene	95	4.469	4.469	(1.113)	33042	46.3589	46.4
	42 1,2-Dichloropropane	63	4.736	4.736	(1.180)	32923	42.7787	42.8
	43 Dibromomethane	93	4.872	4.872	(1.214)	15660	45.4631	45.5
	44 Methyl methacrylate	69	4.935	4.940	(1.229)	49342	164.321	164
	45 Bromodichloromethane	83	5.076	5.076	(1.264)	38561	46.3918	46.4
	46 2-Chloroethyl vinyl ether	63	5.463	5.458	(0.757)	8787	45.9740	46.0
	145 1,4-Dioxane	88	4.930	4.925	(1.228)	3680	16260.7	16300
	47 cis-1,3-Dichloropropene	75	5.594	5.594	(0.775)	41706	43.3296	43.3
	48 4-Methyl-2-Pentanone	43	5.798	5.798	(0.803)	125651	211.433	211
$	49 Toluene-d8	98	5.876	5.876	(0.814)	137237	49.5232	49.5
	50 Toluene	91	5.944	5.944	(0.823)	131342	42.1765	42.2
	51 trans-1,3-Dichloropropene	75	6.216	6.216	(0.861)	35366	43.5365	43.5
	52 Ethyl Methacrylate	69	6.358	6.357	(0.880)	105969	178.132	178
	53 1,1,2-Trichloroethane	83	6.399	6.399	(0.886)	19290	43.3208	43.3
	54 Tetrachloroethene	166	6.515	6.514	(0.902)	40111	37.3729	37.4
	55 1,3-Dichloropropane	76	6.556	6.556	(0.908)	38233	43.2582	43.2
	56 2-Hexanone	43	6.671	6.671	(0.924)	112621	273.901	274
	57 Dibromochloromethane	129	6.750	6.750	(0.935)	32330	43.2494	43.2
	58 1,2-Dibromoethane	107	6.834	6.833	(0.946)	26390	45.4387	45.4
*	59 Chlorobenzene-d5	117	7.221	7.220	(1.000)	116536	50.0000	
	60 Chlorobenzene	112	7.242	7.241	(1.003)	100853	41.3827	41.4
	61 1,1,1,2-Tetrachloroethane	131	7.310	7.315	(1.012)	38142	41.6933	41.7
	62 Ethylbenzene	106	7.336	7.335	(1.016)	55125	41.6943	41.7
	63 m&p-Xylene	106	7.425	7.424	(1.028)	137882	86.1714	86.2
	65 o-Xylene	106	7.702	7.702	(1.067)	66261	41.9922	42.0
	66 Styrene	104	7.712	7.712	(1.068)	109438	43.0955	43.1
	67 Bromoform	173	7.827	7.827	(0.897)	19345	39.5887	39.6
	68 Isopropylbenzene	105	7.948	7.947	(1.101)	181722	42.8352	42.8
	69 trans-1,4-Dichloro-2-butene	53	8.172	8.178	(1.132)	44547	195.137	195(Q)
$	70 4-Bromofluorobenzene	95	8.042	8.042	(1.114)	56915	52.6300	52.6
	71 Bromobenzene	77	8.125	8.125	(1.125)	59829	42.4413	42.4
	72 1,1,2,2-Tetrachloroethane	83	8.141	8.141	(0.933)	31313	41.2451	41.2
	73 1,2,3-Trichloropropane	75	8.172	8.162	(0.937)	62622	78.3130	78.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
74 n-Propylbenzene	91	8.204	8.204	(0.941)	224069	42.8071	42.8
75 2-Chlorotoluene	91	8.251	8.251	(0.946)	123996	41.4449	41.4
76 4-Chlorotoluene	126	8.314	8.319	(0.953)	50050	40.5261	40.5
77 1,3,5-Trimethylbenzene	105	8.308	8.308	(0.953)	156153	41.9361	41.9
78 tert-Butylbenzene	119	8.497	8.502	(0.974)	173405	36.0972	36.1
79 1,2,4-Trimethylbenzene	105	8.523	8.523	(0.977)	159377	40.7551	40.8
80 sec-Butylbenzene	105	8.622	8.622	(0.989)	220748	42.0397	42.0
81 1,3-Dichlorobenzene	146	8.685	8.680	(0.996)	101300	42.8607	42.9
* 82 1,4-Dichlorobenzene-d4	152	8.722	8.721	(1.000)	75796	50.0000	
83 p-Isopropyltoluene	119	8.701	8.701	(0.998)	205897	42.3659	42.4
84 1,4-Dichlorobenzene	146	8.732	8.732	(1.001)	102118	41.7862	41.8
85 1,2-Dichlorobenzene	146	8.936	8.936	(1.025)	91202	41.7234	41.7
86 n-Butylbenzene	91	8.920	8.920	(1.023)	174180	43.8976	43.9
87 1,2-Dibromo-3-chloropropane	155	9.344	9.339	(1.071)	5456	44.5199	44.5
88 1,2,4-Trichlorobenzene	180	9.762	9.752	(1.119)	63797	43.9465	43.9
89 Hexachlorobutadiene	225	9.841	9.830	(1.128)	42661	44.6563	44.6
90 Naphthalene	128	9.888	9.877	(1.134)	119521	43.3980	43.4
91 1,2,3-Trichlorobenzene	180	10.008	10.003	(1.148)	58974	45.1784	45.2
92 2,methyl-naphthalene	142	10.500	10.489	(1.204)	63110	39.3696	39.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B02LCS.D
Lab Smp Id: 456884
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Misc Info: 25360

Calibration Date: 16-JUL-2010
Calibration Time: 03:33
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	172063	86032	344126	129592	-24.68
59 Chlorobenzene-d5	140967	70484	281934	116536	-17.33
82 1,4-Dichlorobenze	92768	46384	185536	75796	-18.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.00
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 456884
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS-s.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Misc Info: 25360

Client SDG: b071510.b
Fraction: VOA
Client Smp ID: lcs
Operator: rsr
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	32.1	64.30	30-170
2 Chloromethane	50.0	38.2	76.39	31-155
3 Vinyl Chloride	50.0	40.9	81.89	50-146
4 Bromomethane	50.0	43.5	87.03	47-147
5 Chloroethane	50.0	44.9	89.75	57-147
6 Trichlorofluoromet	50.0	46.9	93.89	55-156
7 Diethyl ether	50.0	42.9	85.87	70-130
8 Acrolein	1000	912	91.25	30-190
9 1,1-Dichloroethene	50.0	49.9	99.74	61-123
10 1,1,2trichlorotrif	50.0	45.7	91.50	70-130
11 Acetone	250	324	129.46	30-190
12 Iodomethane	100	84.5	84.52	38-173
13 Carbon Disulfide	100	91.9	91.95	56-141
14 allyl chloride	100	88.8	88.80	70-130
15 Methylene Chloride	50.0	45.8	91.65	30-170
16 Acrylonitrile	1000	963	96.33	65-129
17 tert-Butyl Alcohol	100	107	106.64	50-150
18 1,2-Dichloroethene	50.0	51.0	101.93	70-122
19 Methyl-tert-butyl	100	98.2	98.23	59-142
20 n-Hexane	50.0	48.2	96.47	76-143
21 1,1-Dichloroethane	50.0	46.0	92.09	62-132
23 Vinyl Acetate	200	156	77.91	46-127
24 2,2-Dichloropropan	50.0	50.5	101.05	53-136
25 1,2-Dichloroethene	50.0	47.9	95.75	76-119
26 2-Butanone	250	288	115.43	33-190
28 1,2-dichlorotriflu	50.0	49.4	98.83	50-150
29 Bromochloromethane	50.0	50.0	100.06	56-143
30 Tetrahydrofuran	50.0	16.2	32.40*	50-150
31 Chloroform	50.0	49.5	99.08	74-123
33 1,1,1-Trichloroeth	50.0	47.7	95.34	61-135
35 Carbon Tetrachlori	50.0	48.2	96.46	54-136
36 1,1-Dichloropropen	50.0	46.2	92.39	74-128
37 Isobutyl alcohol	50.0	412	823.82*	50-150
38 Benzene	50.0	43.8	87.50	76-123
39 1,2-Dichloroethane	50.0	52.2	104.39	62-135
41 Trichloroethene	50.0	46.4	92.72	74-121
42 1,2-Dichloropropan	50.0	42.8	85.56	74-124
43 Dibromomethane	50.0	45.5	90.93	70-127
44 Methyl methacrylat	200	164	82.16	70-130
45 Bromodichlorometha	50.0	46.4	92.78	67-123

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
47 cis-1,3-Dichloropr	50.0	43.3	86.66	56-110
48 4-Methyl-2-Pentano	250	211	84.57	58-126
50 Toluene	50.0	42.2	84.35	72-123
51 trans-1,3-Dichloro	50.0	43.5	87.07	55-107
52 Ethyl Methacrylate	200	178	89.07	58-126
53 1,1,2-Trichloroeth	50.0	43.3	86.64	74-127
54 Tetrachloroethene	50.0	37.4	74.75	63-117
55 1,3-Dichloropropan	50.0	43.2	86.52	71-122
56 2-Hexanone	250	274	109.56	44-168
57 Dibromochlorometha	50.0	43.2	86.50	63-122
58 1,2-Dibromoethane	50.0	45.4	90.88	74-119
60 Chlorobenzene	50.0	41.4	82.77	75-115
61 1,1,1,2-Tetrachlor	50.0	41.7	83.39	65-124
62 Ethylbenzene	50.0	41.7	83.39	78-121
63 m&p-Xylene	100	86.2	86.17	78-120
65 o-Xylene	50.0	42.0	83.98	77-119
66 Styrene	50.0	43.1	86.19	75-118
67 Bromoform	50.0	39.6	79.18	58-117
68 Isopropylbenzene	50.0	42.8	85.67	75-128
69 trans-1,4-Dichloro	200	195	97.57	50-150
71 Bromobenzene	50.0	42.4	84.88	74-116
72 1,1,2,2-Tetrachlor	50.0	41.2	82.49	66-124
73 1,2,3-Trichloropro	100	78.3	78.31	61-120
74 n-Propylbenzene	50.0	42.8	85.61	70-126
75 2-Chlorotoluene	50.0	41.4	82.89	72-122
76 4-Chlorotoluene	50.0	40.5	81.05	72-120
77 1,3,5-Trimethylben	50.0	41.9	83.87	73-122
78 tert-Butylbenzene	50.0	36.1	72.19	61-114
79 1,2,4-Trimethylben	50.0	40.8	81.51	72-120
80 sec-Butylbenzene	50.0	42.0	84.08	72-125
81 1,3-Dichlorobenzen	50.0	42.9	85.72	73-120
83 p-Isopropyltoluene	50.0	42.4	84.73	65-125
84 1,4-Dichlorobenzen	50.0	41.8	83.57	72-118
85 1,2-Dichlorobenzen	50.0	41.7	83.45	75-117
86 n-Butylbenzene	50.0	43.9	87.80	70-123
87 1,2-Dibromo-3-chlo	50.0	44.5	89.04	58-122
88 1,2,4-Trichloroben	50.0	43.9	87.89	58-126
89 Hexachlorobutadien	50.0	44.6	89.31	65-128
90 Naphthalene	50.0	43.4	86.80	60-128
91 1,2,3-Trichloroben	50.0	45.2	90.36	60-125
92 2,methyl-naphthale	50.0	39.4	78.74	70-130
139 Methyl Acetate	50.0	64.1	128.23	30-191
140 Cyclohexane	50.0	45.5	90.97	63-127
141 Methylcyclohexane	50.0	44.7	89.41	71-123

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	55.2	110.50	80-123
$ 49 Toluene-d8	50.0	49.5	99.05	80-116
$ 70 4-Bromofluorobenze	50.0	52.6	105.26	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 456884
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 25360

Client SDG: b071510.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	32.1	
74-87-3	Chloromethane	38.2	
75-01-4	Vinyl Chloride	40.9	
74-83-9	Bromomethane	43.5	
79-20-9	Methyl Acetate	64.1	
75-00-3	Chloroethane	44.9	
75-69-4	Trichlorofluoromethane	46.9	
60-29-7	Diethyl ether	42.9	
107-02-8	Acrolein	912	
75-35-4	1,1-Dichloroethene	49.9	
76-13-1	1,1,2trichlorotrifluoroethan	45.7	
67-64-1	Acetone	324	
	Iodomethane	84.5	
75-15-0	Carbon Disulfide	91.9	
75-05-8	Acetonitrile	953	
107-05-1	allyl chloride	88.8	
75-09-2	Methylene Chloride	45.8	
107-13-1	Acrylonitrile	963	
75-65-0	tert-Butyl Alcohol	107	
156-60-5	1,2-Dichloroethene (trans)	51.0	
1634-04-4	Methyl-tert-butyl ether	98.2	
	n-Hexane	48.2	
75-34-3	1,1-Dichloroethane	46.0	
108-05-4	Vinyl Acetate	156	
126-99-8	Chloroprene	50.7	
594-20-7	2,2-Dichloropropane	50.5	
156-59-2	1,2-Dichloroethene (cis)	47.9	
78-93-3	2-Butanone	288	
126-98-7	Methacrylonitrile	213	
354-23-4	1,2-dichlorotrifluoroethane	49.4	
74-97-5	Bromochloromethane	50.0	
	Tetrahydrofuran	16.2	
67-66-3	Chloroform	49.5	
71-55-6	1,1,1-Trichloroethane	47.7	
56-23-5	Carbon Tetrachloride	48.2	
563-58-6	1,1-Dichloropropene	46.2	
78-83-1	Isobutyl alcohol	412	
110-82-7	Cyclohexane	45.5	
71-43-2	Benzene	43.8	
107-06-2	1,2-Dichloroethane	52.2	
540-84-1	2,2,4-Trimethylpentane	42.9	
108-82-7	Methylcyclohexane	44.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 456884
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 25360

Client SDG: b071510.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	46.4	
78-87-5	1,2-Dichloropropane	42.8	
74-95-3	Dibromomethane	45.5	
80-62-6	Methyl methacrylate	164	
75-27-4	Bromodichloromethane	46.4	
110-75-8	2-Chloroethyl vinyl ether	46.0	
	1,4-Dioxane	16300	
10061-01-5	cis-1,3-Dichloropropene	43.3	
108-10-1	4-Methyl-2-Pentanone	211	
108-88-3	Toluene	42.2	
10061-02-6	trans-1,3-Dichloropropene	43.5	
	Ethyl Methacrylate	178	
79-00-5	1,1,2-Trichloroethane	43.3	
127-18-4	Tetrachloroethene	37.4	
142-28-9	1,3-Dichloropropane	43.2	
591-78-6	2-Hexanone	274	
124-48-1	Dibromochloromethane	43.2	
106-93-4	1,2-Dibromoethane	45.4	
108-90-7	Chlorobenzene	41.4	
630-20-6	1,1,1,2-Tetrachloroethane	41.7	
100-41-4	Ethylbenzene	41.7	
7816-60-0	m&p-Xylene	86.2	
95-47-6	o-Xylene	42.0	
100-42-5	Styrene	43.1	
75-25-2	Bromoform	39.6	
98-82-8	Isopropylbenzene	42.8	
	trans-1,4-Dichloro-2-butene	195	
108-86-1	Bromobenzene	42.4	
79-34-5	1,1,2,2-Tetrachloroethane	41.2	
96-18-4	1,2,3-Trichloropropane	78.3	
103-65-1	n-Propylbenzene	42.8	
95-49-8	2-Chlorotoluene	41.4	
106-43-4	4-Chlorotoluene	40.5	
108-67-8	1,3,5-Trimethylbenzene	41.9	
98-06-6	tert-Butylbenzene	36.1	
95-63-6	1,2,4-Trimethylbenzene	40.8	
135-98-8	sec-Butylbenzene	42.0	
541-73-1	1,3-Dichlorobenzene	42.9	
99-87-6	p-Isopropyltoluene	42.4	
106-46-7	1,4-Dichlorobenzene	41.8	
95-50-1	1,2-Dichlorobenzene	41.7	
104-51-8	n-Butylbenzene	43.9	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

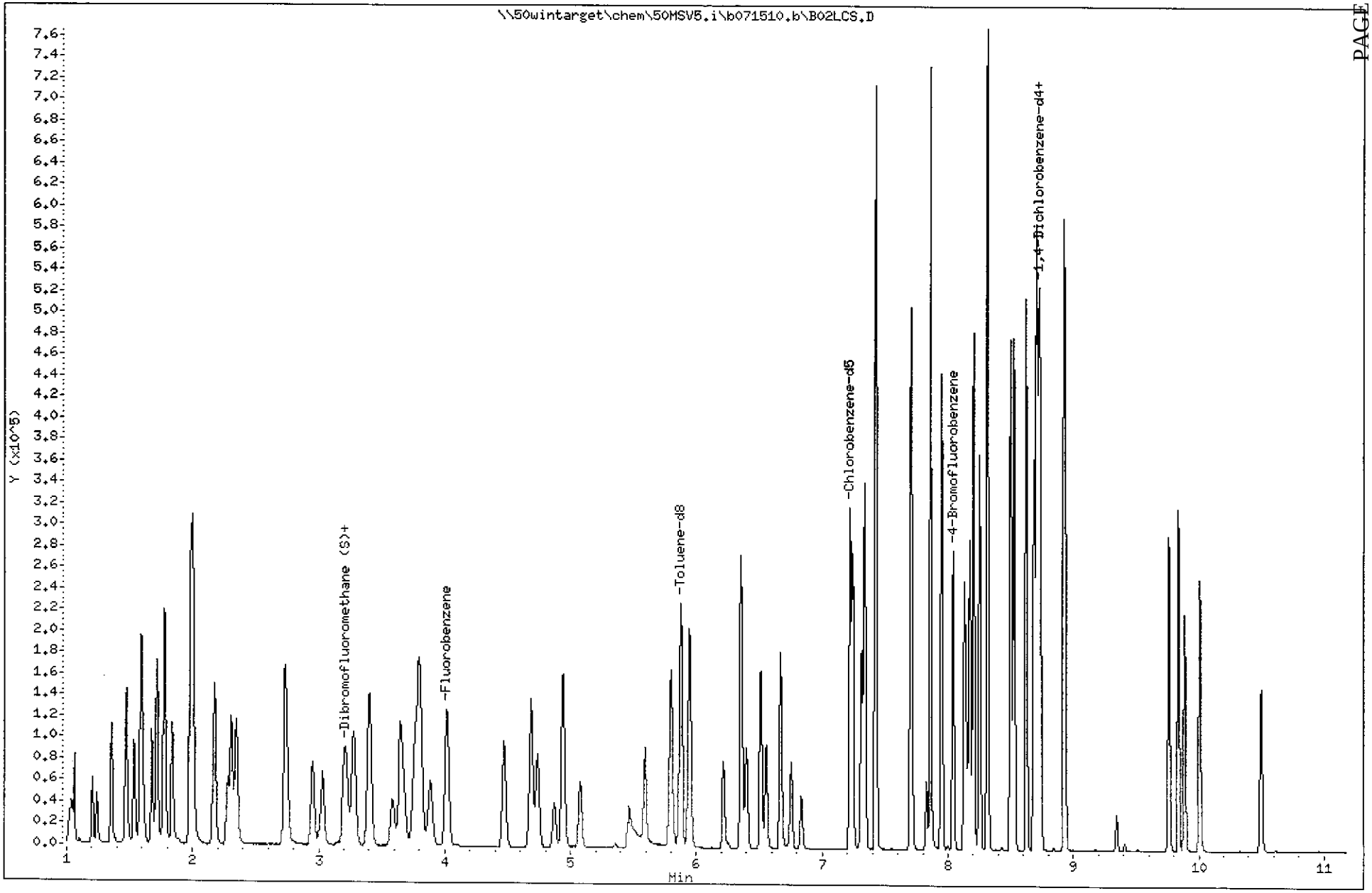
Client Name:
Lab Smp Id: 456884
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 25360

Client SDG: b071510.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	44.5	
120-82-1	1,2,4-Trichlorobenzene	43.9	
87-68-3	Hexachlorobutadiene	44.6	
91-20-3	Naphthalene	43.4	
87-61-6	1,2,3-Trichlorobenzene	45.2	
	2,methyl-naphthalene	39.4	
1868-53-7	Dibromofluoromethane (S)	55.2	
2037-26-5	Toluene-d8	49.5	
460-00-4	4-Bromofluorobenzene	52.6	

Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B02LCS.D
Date : 15-JUL-2010 15:49
Client ID: lcs
Sample Info: lcs 34B-165
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B02LCS.D

Date : 15-JUL-2010 15:49

Client ID: los

Instrument: 50MSV5.i

Sample Info: los 34B-165

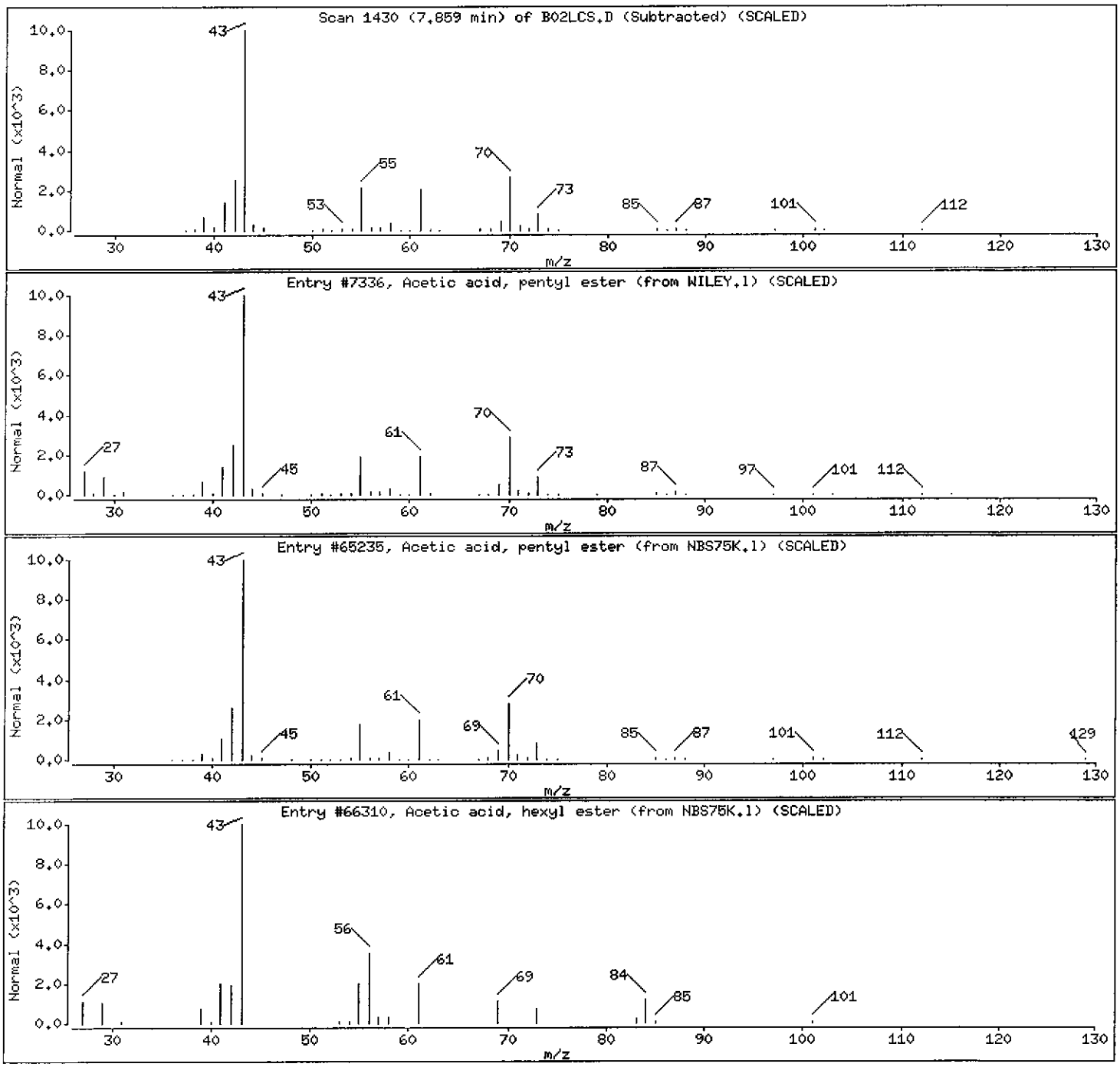
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY.l	7336	90	C7H14O2	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65235	90	C7H14O2	130
Acetic acid, hexyl ester	142-92-7	NBS75K.l	66310	42	C8H16O2	144



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 5: Method Blank Data

**** Method Blanks***

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: Allison IN000473.0020
Pace Project No.: 5039200

QB Batch: MSV/25359
Method(s): EPA 8260
Associated Lab Samples: 5039200001

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	2.5	07/15/10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	07/15/10	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	2.5	07/15/10	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	2.5	07/15/10	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	2.5	07/15/10	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	2.5	07/15/10	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	2.5	07/15/10	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5.0	07/15/10	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	2.5	07/15/10	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	2.5	07/15/10	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	2.5	07/15/10	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	2.5	07/15/10	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	2.5	07/15/10	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	2.5	07/15/10	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	12.0	07/15/10	
591-78-6	2-Hexanone	ND	ug/L	25.0	12.0	07/15/10	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	12.0	07/15/10	
67-64-1	Acetone	ND	ug/L	100	50.0	07/15/10	
71-43-2	Benzene	ND	ug/L	5.0	1.0	07/15/10	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	2.5	07/15/10	
75-25-2	Bromoform	ND	ug/L	5.0	2.5	07/15/10	
74-83-9	Bromomethane	ND	ug/L	5.0	3.9	07/15/10	
75-15-0	Carbon disulfide	ND	ug/L	10.0	5.0	07/15/10	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	2.5	07/15/10	
108-90-7	Chlorobenzene	ND	ug/L	5.0	2.5	07/15/10	
75-00-3	Chloroethane	ND	ug/L	5.0	2.5	07/15/10	
67-66-3	Chloroform	ND	ug/L	5.0	2.5	07/15/10	
74-87-3	Chloromethane	ND	ug/L	5.0	2.5	07/15/10	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	2.5	07/15/10	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: Allison IN000473.0020
Pace Project No.: 5039200

QB Batch: MSV/25359
Method(s): EPA 8260
Associated Lab Samples: 5039200001

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	07/15/10	
110-82-7	Cyclohexane	ND	ug/L	100	50.0	07/15/10	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	2.5	07/15/10	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	2.5	07/15/10	
100-41-4	Ethylbenzene	ND	ug/L	5.0	2.5	07/15/10	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	2.5	07/15/10	
79-20-9	Methyl acetate	ND	ug/L	50.0		07/15/10	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	2.0	07/15/10	
108-87-2	Methylcyclohexane	ND	ug/L	50.0		07/15/10	
75-09-2	Methylene chloride	ND	ug/L	5.0	2.5	07/15/10	
100-42-5	Styrene	ND	ug/L	5.0	2.5	07/15/10	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1.0	07/15/10	
108-88-3	Toluene	ND	ug/L	5.0	2.5	07/15/10	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	2.5	07/15/10	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	07/15/10	
79-01-6	Trichloroethene	ND	ug/L	5.0	1.0	07/15/10	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	2.5	07/15/10	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1.0	07/15/10	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	5.0	07/15/10	

Type	Sample	Matrix
BLANK	456878	Water

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b071510.b\B03MB.D
Lab Smp Id: 456883 Client Smp ID: mb
Inj Date : 15-JUL-2010 16:27
Operator : rsr Inst ID: 50MSV5.i
Smp Info : mb MeOH 096181
Misc Info : 25360
Comment :
Method : \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Meth Date : 26-Jul-2010 14:36 rrenbarger Quant Type: ISTD
Cal Date : 07-JUL-2010 18:03 Cal File: B08.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.193	3.193	(0.795)	33250	55.8731	55.9
* 40 Fluorobenzene	96	4.014	4.014	(1.000)	119622	50.0000	
$ 49 Toluene-d8	98	5.871	5.876	(0.813)	125671	50.1928	50.2
* 59 Chlorobenzene-d5	117	7.220	7.220	(1.000)	105291	50.0000	
$ 70 4-Bromofluorobenzene	95	8.036	8.042	(1.113)	48997	50.1470	50.1
* 82 1,4-Dichlorobenzene-d4	152	8.716	8.721	(1.000)	65375	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B03MB.D
Lab Smp Id: 456883
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Misc Info: 25360

Calibration Date: 16-JUL-2010
Calibration Time: 03:33
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	172063	86032	344126	119622	-30.48
59 Chlorobenzene-d5	140967	70484	281934	105291	-25.31
82 1,4-Dichlorobenze	92768	46384	185536	65375	-29.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.01	0.00
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	-0.06

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 456883
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Misc Info: 25360

Client SDG: b071510.b
Fraction: VOA
Client Smp ID: mb
Operator: rsr
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	55.9	111.75	80-123
$ 49 Toluene-d8	50.0	50.2	100.39	80-116
$ 70 4-Bromofluorobenze	50.0	50.1	100.29	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

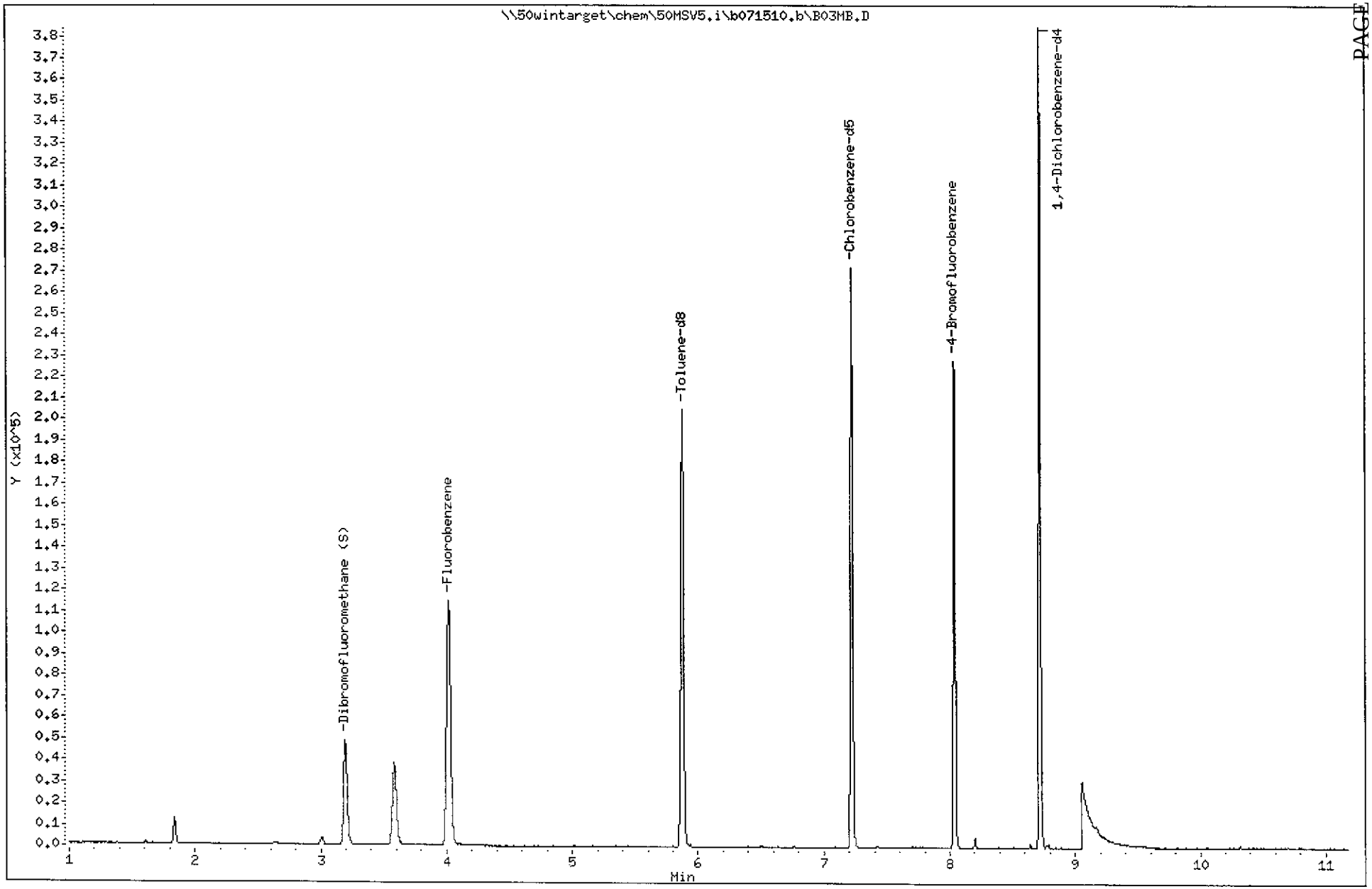
Client Name:
Lab Smp Id: 456883
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 25360

Client SDG: b071510.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	55.9	
2037-26-5	Toluene-d8	50.2	
460-00-4	4-Bromofluorobenzene	50.1	

Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B03MB.D
Date : 15-JUL-2010 16:27
Client ID: mb
Sample Info: mb MeOH 096181
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B03MB.D

Date : 15-JUL-2010 16:27

Client ID: mb

Instrument: 50MSV5.i

Sample Info: mb MeOH 096181

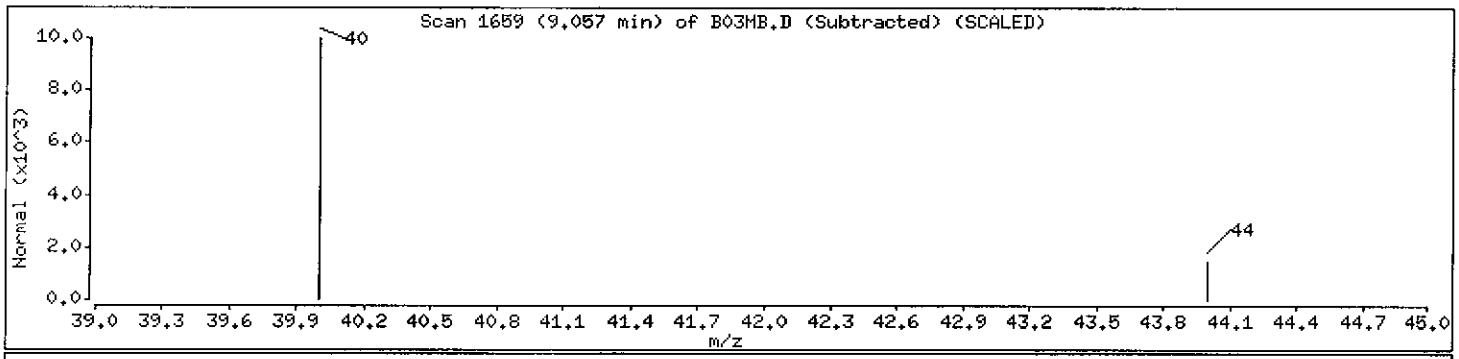
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 6: Client Sample Data

**** Client Sample Raw Data***
**** Dilutions or Reruns of Client Samples***
(Sample data should be in numerical order by Lab Number)

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b071510.b\B11.D
Lab Smp Id: 5039200001 Client Smp ID: 5039200001
Inj Date : 15-JUL-2010 21:23
Operator : rsr Inst ID: 50MSV5.i
Smp Info : 5039200001
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Meth Date : 26-Jul-2010 14:36 rrenbarger Quant Type: ISTD
Cal Date : 07-JUL-2010 18:03 Cal File: B08.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.193	3.193	(0.794)	42610	54.0366	54.0
* 40 Fluorobenzene	96	4.020	4.014	(1.000)	158506	50.0000	
$ 49 Toluene-d8	98	5.876	5.876	(0.814)	164811	51.0451	51.0
50 Toluene	91	5.950	5.944	(0.824)	2616	0.72100	0.721
* 59 Chlorobenzene-d5	117	7.221	7.220	(1.000)	135778	50.0000	
$ 70 4-Bromofluorobenzene	95	8.042	8.042	(1.114)	62518	49.6184	49.6
* 82 1,4-Dichlorobenzene-d4	152	8.722	8.721	(1.000)	86126	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: B11.D
Lab Smp Id: 5039200001
Analysis Type: VOA
Quant Type: ISTD
Operator: rsr
Method File: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Misc Info:

Calibration Date: 16-JUL-2010
Calibration Time: 03:33
Client Smp ID: 5039200001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	172063	86032	344126	158506	-7.88
59 Chlorobenzene-d5	140967	70484	281934	135778	-3.68
82 1,4-Dichlorobenze	92768	46384	185536	86126	-7.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.01	3.51	4.51	4.02	0.13
59 Chlorobenzene-d5	7.22	6.72	7.72	7.22	0.00
82 1,4-Dichlorobenze	8.72	8.22	9.22	8.72	0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5039200001
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCSfulllist.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b071510.b\-B8260.m
Misc Info:

Client SDG: b071510.b
Fraction: VOA
Client Smp ID: 5039200001
Operator: rsr
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	54.0	108.07	80-123
$ 49 Toluene-d8	50.0	51.0	102.09	80-116
$ 70 4-Bromofluorobenze	50.0	49.6	99.24	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

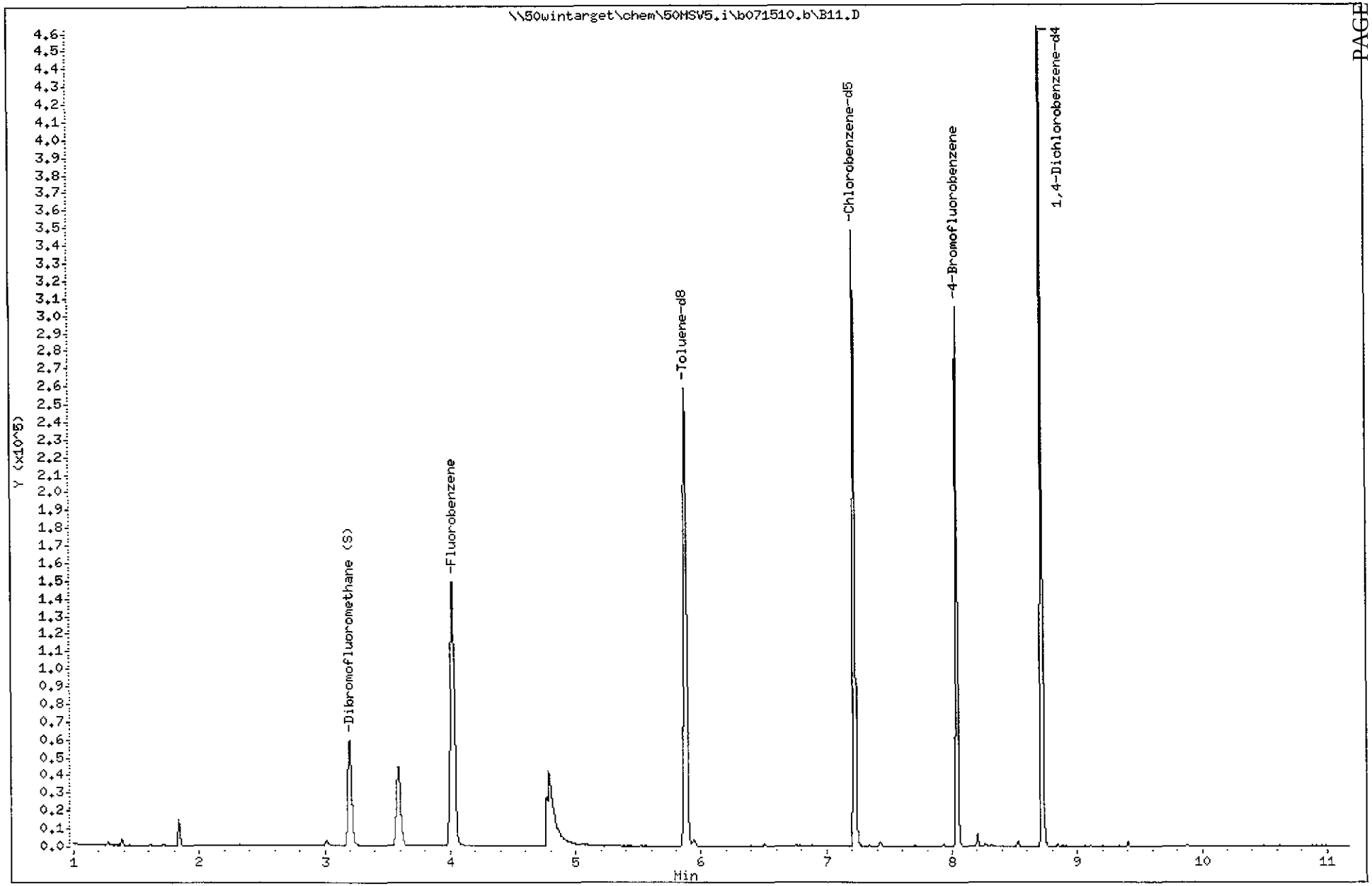
Client Name:
Lab Smp Id: 5039200001
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b071510.b
Client Smp ID: 5039200001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsr

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-88-3	Toluene	0.721	
1868-53-7	Dibromofluoromethane (S)	54.0	
2037-26-5	Toluene-d8	51.0	
460-00-4	4-Bromofluorobenzene	49.6	

Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B11.D
Date : 15-JUL-2010 21:23
Client ID: 5039200001
Sample Info: 5039200001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsr
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b071510.b\B11.D

Date : 15-JUL-2010 21:23

Client ID: 5039200001

Instrument: 50MSV5.i

Sample Info: 5039200001

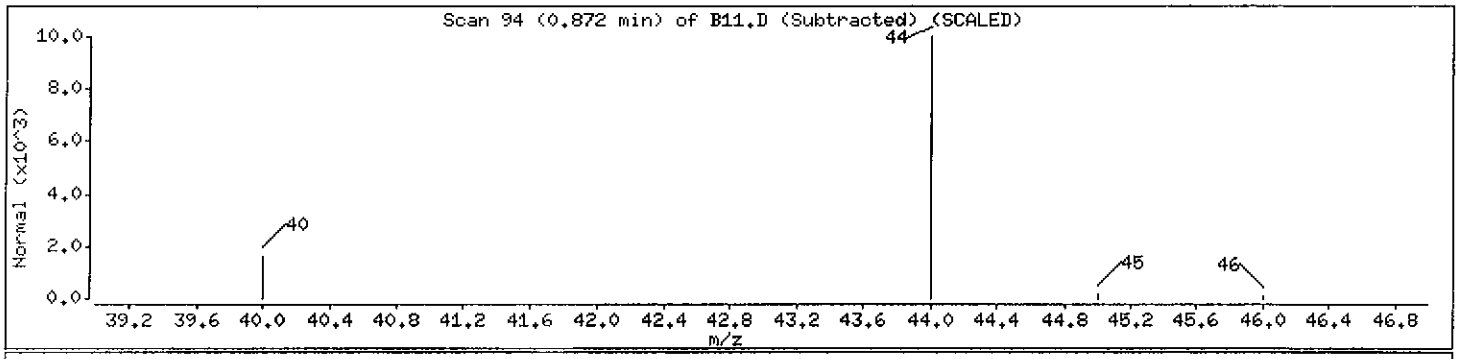
Purge Volume: 5.0

Operator: rsr

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

June 13, 2011

Ms. Susan Scrocchi
Conestoga-Rovers and Associates
2055 Niagara Falls Blvd
Suite 2
Niagara Falls, NY 14304

RE: Project: E027029/Allison Transmission
Pace Project No.: 5049277

Dear Ms. Scrocchi:
Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

June 16, 2011

Case Narrative- Level Project Review
Project 5049277 (Conestoga-Rovers and Associates)

General Reporting Comments

Quality control issues or reported footnotes that require more detailed information will be covered in this case narrative. Dilutions of samples are indicated in the sample results section under the heading 'DF'. The raw sample and calibration data is included following the body of the report. This raw data is separated by analysis and then further separated into categories of information.

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

GC/MS Volatiles- Method 8260

Compounds with the N2 footnote indicate the laboratory does not hold NELAC accreditation for that compound. The LCS listed on pages 21-22 and 27-28 has one footnote (L3) indicating compounds were above the laboratory control limits. Analyte presence in associated samples was non-detect and not affected by the high bias. All other quality control indicators for this project (Method Blank, matrix spike and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the report or documented within the raw data.

Theresa L Sheingold

Theresa Sheingold
Quality Analyst
Pace Analytical Services

The review of this project and the associated case narrative are part of a review process for final reports that require a complete set of data deliverables. This process is completed by a member of the Quality Department as part of Pace Analytical's Indiana state requirements.

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5049277001	**TB-1(060211)-TP**	Water	06/02/11 08:00	06/02/11 17:54
5049277002	**MW-1003-S3(060211)**	Water	06/02/11 11:00	06/02/11 17:54
5049277003	**MW-0524-S2A(060211)**	Water	06/02/11 12:10	06/02/11 17:54
5049277004	**MW-0524-S2B(060211)**	Water	06/02/11 13:20	06/02/11 17:54
5049277005	**EB-1(060211)-TP**	Water	06/02/11 13:40	06/02/11 17:54
5049277006	**FD-1(060211)-TP**	Water	06/02/11 08:00	06/02/11 17:54
5049277007	**MW-0522-S2B(060211)**	Water	06/02/11 15:35	06/02/11 17:54
5049277008	**MW-0522-S2A(060211)**	Water	06/02/11 17:10	06/02/11 17:54

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5049277001	**TB-1(060211)-TP**	EPA 8260	RSW	51
5049277002	**MW-1003-S3(060211)**	EPA 8260	RSW	51
5049277003	**MW-0524-S2A(060211)**	EPA 8260	RSW	51
5049277004	**MW-0524-S2B(060211)**	EPA 8260	RSW	51
5049277005	**EB-1(060211)-TP**	EPA 8260	RSW	51
5049277006	**FD-1(060211)-TP**	EPA 8260	RSW	51
5049277007	**MW-0522-S2B(060211)**	EPA 8260	RSW	51
5049277008	**MW-0522-S2A(060211)**	EPA 8260	RSW	51

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: TB-1(060211)-TP **Lab ID: 5049277001** Collected: 06/02/11 08:00 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/09/11 20:18	67-64-1	
Benzene	ND	ug/L	5.0	1		06/09/11 20:18	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/09/11 20:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/09/11 20:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/09/11 20:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/09/11 20:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/09/11 20:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/09/11 20:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/09/11 20:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/09/11 20:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/09/11 20:18	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/09/11 20:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/09/11 20:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/09/11 20:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/09/11 20:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/09/11 20:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/09/11 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/11 20:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/09/11 20:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/09/11 20:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/09/11 20:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/09/11 20:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/09/11 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/09/11 20:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/09/11 20:18	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/09/11 20:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/09/11 20:18	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/09/11 20:18	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/09/11 20:18	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/09/11 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/09/11 20:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/09/11 20:18	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/09/11 20:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/09/11 20:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/09/11 20:18	127-18-4	
Toluene	ND	ug/L	5.0	1		06/09/11 20:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/09/11 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/09/11 20:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/09/11 20:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/09/11 20:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/09/11 20:18	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/09/11 20:18	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: TB-1(060211)-TP **Lab ID: 5049277001** Collected: 06/02/11 08:00 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/09/11 20:18	1330-20-7	
Dibromofluoromethane (S)	113	%	83-123	1		06/09/11 20:18	1868-53-7	
4-Bromofluorobenzene (S)	110	%	72-125	1		06/09/11 20:18	460-00-4	
Toluene-d8 (S)	88	%	81-114	1		06/09/11 20:18	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-1003-S3(060211) **Lab ID: 5049277002** Collected: 06/02/11 11:00 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/10/11 22:06	67-64-1	
Benzene	ND	ug/L	5.0	1		06/10/11 22:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/10/11 22:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/10/11 22:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/10/11 22:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/11 22:06	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/10/11 22:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/11 22:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/10/11 22:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/10/11 22:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/10/11 22:06	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/10/11 22:06	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/10/11 22:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/10/11 22:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/11 22:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/11 22:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/11 22:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/11 22:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/11 22:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 22:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 22:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/11 22:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 22:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 22:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/10/11 22:06	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/10/11 22:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/11 22:06	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/10/11 22:06	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/10/11 22:06	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/10/11 22:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/11 22:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/11 22:06	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/10/11 22:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/11 22:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/10/11 22:06	127-18-4	
Toluene	ND	ug/L	5.0	1		06/10/11 22:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/11 22:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/11 22:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/10/11 22:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/11 22:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/10/11 22:06	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/10/11 22:06	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-1003-S3(060211) **Lab ID: 5049277002** Collected: 06/02/11 11:00 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/10/11 22:06	1330-20-7	
Dibromofluoromethane (S)	107	%	83-123	1		06/10/11 22:06	1868-53-7	
4-Bromofluorobenzene (S)	105	%	72-125	1		06/10/11 22:06	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		06/10/11 22:06	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-0524-S2A(060211) **Lab ID: 5049277003** Collected: 06/02/11 12:10 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/11/11 07:43	67-64-1	
Benzene	ND	ug/L	5.0	1		06/11/11 07:43	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/11/11 07:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/11/11 07:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/11/11 07:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/11/11 07:43	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/11/11 07:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/11/11 07:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/11/11 07:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/11/11 07:43	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/11/11 07:43	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/11/11 07:43	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/11/11 07:43	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/11/11 07:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/11/11 07:43	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/11/11 07:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/11/11 07:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/11/11 07:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/11/11 07:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 07:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 07:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/11/11 07:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 07:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 07:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/11/11 07:43	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/11/11 07:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/11/11 07:43	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/11/11 07:43	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/11/11 07:43	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/11/11 07:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/11/11 07:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/11/11 07:43	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/11/11 07:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/11/11 07:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/11/11 07:43	127-18-4	
Toluene	ND	ug/L	5.0	1		06/11/11 07:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/11/11 07:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/11/11 07:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/11/11 07:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/11/11 07:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/11/11 07:43	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/11/11 07:43	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-0524-S2A(060211) **Lab ID: 5049277003** Collected: 06/02/11 12:10 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/11/11 07:43	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		06/11/11 07:43	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		06/11/11 07:43	460-00-4	
Toluene-d8 (S)	106	%	81-114	1		06/11/11 07:43	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-0524-S2B(060211) **Lab ID: 5049277004** Collected: 06/02/11 13:20 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/10/11 08:45	67-64-1	
Benzene	ND	ug/L	5.0	1		06/10/11 08:45	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/10/11 08:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/10/11 08:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/10/11 08:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/11 08:45	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/10/11 08:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/11 08:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/10/11 08:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/10/11 08:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/10/11 08:45	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/10/11 08:45	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/10/11 08:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/10/11 08:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/11 08:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/11 08:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/11 08:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/11 08:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/11 08:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 08:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 08:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/11 08:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 08:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 08:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/10/11 08:45	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/10/11 08:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/11 08:45	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/10/11 08:45	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/10/11 08:45	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/10/11 08:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/11 08:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/11 08:45	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/10/11 08:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/11 08:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/10/11 08:45	127-18-4	
Toluene	ND	ug/L	5.0	1		06/10/11 08:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/11 08:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/11 08:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/10/11 08:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/11 08:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/10/11 08:45	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/10/11 08:45	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-0524-S2B(060211) **Lab ID: 5049277004** Collected: 06/02/11 13:20 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/10/11 08:45	1330-20-7	
Dibromofluoromethane (S)	110	%	83-123	1		06/10/11 08:45	1868-53-7	
4-Bromofluorobenzene (S)	110	%	72-125	1		06/10/11 08:45	460-00-4	
Toluene-d8 (S)	89	%	81-114	1		06/10/11 08:45	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: EB-1(060211)-TP **Lab ID: 5049277005** Collected: 06/02/11 13:40 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/10/11 09:22	67-64-1	
Benzene	ND	ug/L	5.0	1		06/10/11 09:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/10/11 09:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/10/11 09:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/10/11 09:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/11 09:22	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/10/11 09:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/11 09:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/10/11 09:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/10/11 09:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/10/11 09:22	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/10/11 09:22	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/10/11 09:22	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/10/11 09:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/11 09:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/11 09:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/11 09:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/11 09:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/11 09:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 09:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 09:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/11 09:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 09:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 09:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/10/11 09:22	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/10/11 09:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/11 09:22	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/10/11 09:22	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/10/11 09:22	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/10/11 09:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/11 09:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/11 09:22	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/10/11 09:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/11 09:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/10/11 09:22	127-18-4	
Toluene	ND	ug/L	5.0	1		06/10/11 09:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/11 09:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/11 09:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/10/11 09:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/11 09:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/10/11 09:22	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/10/11 09:22	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: EB-1(060211)-TP **Lab ID: 5049277005** Collected: 06/02/11 13:40 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/10/11 09:22	1330-20-7	
Dibromofluoromethane (S)	110	%	83-123	1		06/10/11 09:22	1868-53-7	
4-Bromofluorobenzene (S)	109	%	72-125	1		06/10/11 09:22	460-00-4	
Toluene-d8 (S)	90	%	81-114	1		06/10/11 09:22	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: FD-1(060211)-TP **Lab ID: 5049277006** Collected: 06/02/11 08:00 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/10/11 23:50	67-64-1	
Benzene	ND	ug/L	5.0	1		06/10/11 23:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/10/11 23:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/10/11 23:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/10/11 23:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/11 23:50	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/10/11 23:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/10/11 23:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/10/11 23:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/10/11 23:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/10/11 23:50	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/10/11 23:50	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/10/11 23:50	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/10/11 23:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/11 23:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/11 23:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/11 23:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/11 23:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/11 23:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 23:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 23:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/11 23:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 23:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 23:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/10/11 23:50	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/10/11 23:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/11 23:50	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/10/11 23:50	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/10/11 23:50	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/10/11 23:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/11 23:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/11 23:50	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/10/11 23:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/11 23:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/10/11 23:50	127-18-4	
Toluene	ND	ug/L	5.0	1		06/10/11 23:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/11 23:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/11 23:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/10/11 23:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/11 23:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/10/11 23:50	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/10/11 23:50	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: FD-1(060211)-TP **Lab ID: 5049277006** Collected: 06/02/11 08:00 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/10/11 23:50	1330-20-7	
Dibromofluoromethane (S)	97	%	83-123	1		06/10/11 23:50	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		06/10/11 23:50	460-00-4	
Toluene-d8 (S)	102	%	81-114	1		06/10/11 23:50	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-0522-S2B(060211) **Lab ID: 5049277007** Collected: 06/02/11 15:35 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/11/11 00:25	67-64-1	
Benzene	ND	ug/L	5.0	1		06/11/11 00:25	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/11/11 00:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/11/11 00:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/11/11 00:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/11/11 00:25	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/11/11 00:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/11/11 00:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/11/11 00:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/11/11 00:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/11/11 00:25	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/11/11 00:25	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/11/11 00:25	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/11/11 00:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/11/11 00:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/11/11 00:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/11/11 00:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/11/11 00:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/11/11 00:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 00:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 00:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/11/11 00:25	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/11/11 00:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/11/11 00:25	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/11/11 00:25	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/11/11 00:25	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/11/11 00:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/11/11 00:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/11/11 00:25	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/11/11 00:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/11/11 00:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/11/11 00:25	127-18-4	
Toluene	ND	ug/L	5.0	1		06/11/11 00:25	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/11/11 00:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/11/11 00:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/11/11 00:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/11/11 00:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/11/11 00:25	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/11/11 00:25	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-0522-S2B(060211) **Lab ID: 5049277007** Collected: 06/02/11 15:35 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/11/11 00:25	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		06/11/11 00:25	1868-53-7	
4-Bromofluorobenzene (S)	98	%	72-125	1		06/11/11 00:25	460-00-4	
Toluene-d8 (S)	104	%	81-114	1		06/11/11 00:25	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-0522-S2A(060211) **Lab ID: 5049277008** Collected: 06/02/11 17:10 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/11/11 00:58	67-64-1	
Benzene	ND	ug/L	5.0	1		06/11/11 00:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/11/11 00:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/11/11 00:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/11/11 00:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/11/11 00:58	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/11/11 00:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/11/11 00:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/11/11 00:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/11/11 00:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/11/11 00:58	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/11/11 00:58	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/11/11 00:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/11/11 00:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/11/11 00:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/11/11 00:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/11/11 00:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/11/11 00:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/11/11 00:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 00:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 00:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/11/11 00:58	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/11/11 00:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/11/11 00:58	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/11/11 00:58	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/11/11 00:58	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/11/11 00:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/11/11 00:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/11/11 00:58	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/11/11 00:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/11/11 00:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/11/11 00:58	127-18-4	
Toluene	ND	ug/L	5.0	1		06/11/11 00:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/11/11 00:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/11/11 00:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/11/11 00:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/11/11 00:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/11/11 00:58	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/11/11 00:58	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Sample: MW-0522-S2A(060211) **Lab ID: 5049277008** Collected: 06/02/11 17:10 Received: 06/02/11 17:54 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/11/11 00:58	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		06/11/11 00:58	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		06/11/11 00:58	460-00-4	
Toluene-d8 (S)	101	%	81-114	1		06/11/11 00:58	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QC Batch: MSV/33161 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5049277001

METHOD BLANK: 583384 | Matrix: Water
Associated Lab Samples: 5049277001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/09/11 17:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/09/11 17:09	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/09/11 17:09	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/09/11 17:09	
1,1-Dichloroethane	ug/L	ND	5.0	06/09/11 17:09	
1,1-Dichloroethene	ug/L	ND	5.0	06/09/11 17:09	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/09/11 17:09	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	06/09/11 17:09	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/09/11 17:09	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/09/11 17:09	
1,2-Dichloroethane	ug/L	ND	5.0	06/09/11 17:09	
1,2-Dichloropropane	ug/L	ND	5.0	06/09/11 17:09	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/09/11 17:09	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/09/11 17:09	
2-Butanone (MEK)	ug/L	ND	25.0	06/09/11 17:09	
2-Hexanone	ug/L	ND	25.0	06/09/11 17:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/09/11 17:09	
Acetone	ug/L	ND	100	06/09/11 17:09	
Benzene	ug/L	ND	5.0	06/09/11 17:09	
Bromodichloromethane	ug/L	ND	5.0	06/09/11 17:09	
Bromoform	ug/L	ND	5.0	06/09/11 17:09	
Bromomethane	ug/L	ND	5.0	06/09/11 17:09	
Carbon disulfide	ug/L	ND	10.0	06/09/11 17:09	
Carbon tetrachloride	ug/L	ND	5.0	06/09/11 17:09	
Chlorobenzene	ug/L	ND	5.0	06/09/11 17:09	
Chloroethane	ug/L	ND	5.0	06/09/11 17:09	
Chloroform	ug/L	ND	5.0	06/09/11 17:09	
Chloromethane	ug/L	ND	5.0	06/09/11 17:09	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/09/11 17:09	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/09/11 17:09	
Cyclohexane	ug/L	ND	100	06/09/11 17:09	N2
Dibromochloromethane	ug/L	ND	5.0	06/09/11 17:09	
Dichlorodifluoromethane	ug/L	ND	5.0	06/09/11 17:09	
Ethylbenzene	ug/L	ND	5.0	06/09/11 17:09	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/09/11 17:09	
Methyl acetate	ug/L	ND	50.0	06/09/11 17:09	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	06/09/11 17:09	
Methylcyclohexane	ug/L	ND	50.0	06/09/11 17:09	N2
Methylene chloride	ug/L	ND	5.0	06/09/11 17:09	
Styrene	ug/L	ND	5.0	06/09/11 17:09	
Tetrachloroethene	ug/L	ND	5.0	06/09/11 17:09	
Toluene	ug/L	ND	5.0	06/09/11 17:09	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/09/11 17:09	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

METHOD BLANK: 583384 Matrix: Water

Associated Lab Samples: 5049277001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/09/11 17:09	
Trichloroethene	ug/L	ND	5.0	06/09/11 17:09	
Trichlorofluoromethane	ug/L	ND	5.0	06/09/11 17:09	
Vinyl chloride	ug/L	ND	2.0	06/09/11 17:09	
Xylene (Total)	ug/L	ND	10.0	06/09/11 17:09	
4-Bromofluorobenzene (S)	%	111	72-125	06/09/11 17:09	
Dibromofluoromethane (S)	%	119	83-123	06/09/11 17:09	
Toluene-d8 (S)	%	90	81-114	06/09/11 17:09	

LABORATORY CONTROL SAMPLE: 583385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	53.6	107	68-134	
1,1,2-Trichloroethane	ug/L	50	54.4	109	77-129	
1,1,2-Trichlorotrifluoroethane	ug/L	50	50.9	102	63-134	
1,1-Dichloroethane	ug/L	50	47.8	96	70-127	
1,1-Dichloroethene	ug/L	50	54.0	108	75-145	
1,2,4-Trichlorobenzene	ug/L	50	67.4	135	64-122	L3
1,2-Dibromo-3-chloropropane	ug/L	50	71.6	143	54-138	L3
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	77-123	
1,2-Dichlorobenzene	ug/L	50	55.4	111	74-123	
1,2-Dichloroethane	ug/L	50	62.9	126	71-127	
1,2-Dichloropropane	ug/L	50	51.7	103	75-126	
1,3-Dichlorobenzene	ug/L	50	54.5	109	76-123	
1,4-Dichlorobenzene	ug/L	50	52.2	104	77-121	
2-Butanone (MEK)	ug/L	250	307	123	42-177	
2-Hexanone	ug/L	250	300	120	57-162	
4-Methyl-2-pentanone (MIBK)	ug/L	250	254	101	64-135	
Acetone	ug/L	250	297	119	10-200	
Benzene	ug/L	50	61.3	123	76-123	
Bromodichloromethane	ug/L	50	58.8	118	71-124	
Bromoform	ug/L	50	54.1	108	64-116	
Bromomethane	ug/L	50	65.6	131	23-197	
Carbon disulfide	ug/L	100	99.5	99	55-146	
Carbon tetrachloride	ug/L	50	51.3	103	65-125	
Chlorobenzene	ug/L	50	53.2	106	78-120	
Chloroethane	ug/L	50	55.3	111	56-163	
Chloroform	ug/L	50	49.9	100	73-122	
Chloromethane	ug/L	50	40.4	81	46-146	
cis-1,2-Dichloroethene	ug/L	50	57.2	114	79-129	
cis-1,3-Dichloropropene	ug/L	50	47.5	95	66-123	
Cyclohexane	ug/L	50	ND	93	66-133	N2
Dibromochloromethane	ug/L	50	54.3	109	70-123	
Dichlorodifluoromethane	ug/L	50	63.7	127	19-200	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

LABORATORY CONTROL SAMPLE: 583385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	50	55.7	111	75-120	
Isopropylbenzene (Cumene)	ug/L	50	58.0	116	73-123	
Methyl acetate	ug/L	50	70.7	141	10-200	N2
Methyl-tert-butyl ether	ug/L	100	112	112	66-128	
Methylcyclohexane	ug/L	50	50.1	100	69-127	N2
Methylene chloride	ug/L	50	58.0	116	61-138	
Styrene	ug/L	50	57.5	115	75-125	
Tetrachloroethene	ug/L	50	53.3	107	57-125	
Toluene	ug/L	50	50.0	100	72-124	
trans-1,2-Dichloroethene	ug/L	50	54.7	109	71-145	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	58-118	
Trichloroethene	ug/L	50	57.7	115	77-122	
Trichlorofluoromethane	ug/L	50	56.6	113	56-159	
Vinyl chloride	ug/L	50	59.4	119	61-146	
Xylene (Total)	ug/L	150	164	109	72-126	
4-Bromofluorobenzene (S)	%			112	72-125	
Dibromofluoromethane (S)	%			100	83-123	
Toluene-d8 (S)	%			92	81-114	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QC Batch: MSV/33174 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5049277004, 5049277005

METHOD BLANK: 583598 Matrix: Water
Associated Lab Samples: 5049277004, 5049277005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/10/11 05:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/10/11 05:39	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/10/11 05:39	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/10/11 05:39	
1,1-Dichloroethane	ug/L	ND	5.0	06/10/11 05:39	
1,1-Dichloroethene	ug/L	ND	5.0	06/10/11 05:39	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/10/11 05:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	06/10/11 05:39	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/10/11 05:39	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/10/11 05:39	
1,2-Dichloroethane	ug/L	ND	5.0	06/10/11 05:39	
1,2-Dichloropropane	ug/L	ND	5.0	06/10/11 05:39	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/10/11 05:39	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/10/11 05:39	
2-Butanone (MEK)	ug/L	ND	25.0	06/10/11 05:39	
2-Hexanone	ug/L	ND	25.0	06/10/11 05:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/10/11 05:39	
Acetone	ug/L	ND	100	06/10/11 05:39	
Benzene	ug/L	ND	5.0	06/10/11 05:39	
Bromodichloromethane	ug/L	ND	5.0	06/10/11 05:39	
Bromoform	ug/L	ND	5.0	06/10/11 05:39	
Bromomethane	ug/L	ND	5.0	06/10/11 05:39	
Carbon disulfide	ug/L	ND	10.0	06/10/11 05:39	
Carbon tetrachloride	ug/L	ND	5.0	06/10/11 05:39	
Chlorobenzene	ug/L	ND	5.0	06/10/11 05:39	
Chloroethane	ug/L	ND	5.0	06/10/11 05:39	
Chloroform	ug/L	ND	5.0	06/10/11 05:39	
Chloromethane	ug/L	ND	5.0	06/10/11 05:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/10/11 05:39	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/10/11 05:39	
Cyclohexane	ug/L	ND	100	06/10/11 05:39	N2
Dibromochloromethane	ug/L	ND	5.0	06/10/11 05:39	
Dichlorodifluoromethane	ug/L	ND	5.0	06/10/11 05:39	
Ethylbenzene	ug/L	ND	5.0	06/10/11 05:39	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/10/11 05:39	
Methyl acetate	ug/L	ND	50.0	06/10/11 05:39	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	06/10/11 05:39	
Methylcyclohexane	ug/L	ND	50.0	06/10/11 05:39	N2
Methylene chloride	ug/L	ND	5.0	06/10/11 05:39	
Styrene	ug/L	ND	5.0	06/10/11 05:39	
Tetrachloroethene	ug/L	ND	5.0	06/10/11 05:39	
Toluene	ug/L	ND	5.0	06/10/11 05:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/10/11 05:39	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

METHOD BLANK: 583598 Matrix: Water

Associated Lab Samples: 5049277004, 5049277005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/10/11 05:39	
Trichloroethene	ug/L	ND	5.0	06/10/11 05:39	
Trichlorofluoromethane	ug/L	ND	5.0	06/10/11 05:39	
Vinyl chloride	ug/L	ND	2.0	06/10/11 05:39	
Xylene (Total)	ug/L	ND	10.0	06/10/11 05:39	
4-Bromofluorobenzene (S)	%	109	72-125	06/10/11 05:39	
Dibromofluoromethane (S)	%	121	83-123	06/10/11 05:39	
Toluene-d8 (S)	%	90	81-114	06/10/11 05:39	

LABORATORY CONTROL SAMPLE: 583599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.1	116	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	94	68-134	
1,1,2-Trichloroethane	ug/L	50	47.6	95	77-129	
1,1,2-Trichlorotrifluoroethane	ug/L	50	48.0	96	63-134	
1,1-Dichloroethane	ug/L	50	38.5	77	70-127	
1,1-Dichloroethene	ug/L	50	50.6	101	75-145	
1,2,4-Trichlorobenzene	ug/L	50	54.8	110	64-122	
1,2-Dibromo-3-chloropropane	ug/L	50	62.7	125	54-138	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	77-123	
1,2-Dichlorobenzene	ug/L	50	49.8	100	74-123	
1,2-Dichloroethane	ug/L	50	58.9	118	71-127	
1,2-Dichloropropane	ug/L	50	48.1	96	75-126	
1,3-Dichlorobenzene	ug/L	50	47.7	95	76-123	
1,4-Dichlorobenzene	ug/L	50	45.9	92	77-121	
2-Butanone (MEK)	ug/L	250	297	119	42-177	
2-Hexanone	ug/L	250	230	92	57-162	
4-Methyl-2-pentanone (MIBK)	ug/L	250	217	87	64-135	
Acetone	ug/L	250	226	90	10-200	
Benzene	ug/L	50	55.7	111	76-123	
Bromodichloromethane	ug/L	50	54.4	109	71-124	
Bromoform	ug/L	50	47.7	95	64-116	
Bromomethane	ug/L	50	59.3	119	23-197	
Carbon disulfide	ug/L	100	79.7	80	55-146	
Carbon tetrachloride	ug/L	50	58.4	117	65-125	
Chlorobenzene	ug/L	50	47.7	95	78-120	
Chloroethane	ug/L	50	50.2	100	56-163	
Chloroform	ug/L	50	53.0	106	73-122	
Chloromethane	ug/L	50	36.0	72	46-146	
cis-1,2-Dichloroethene	ug/L	50	56.2	112	79-129	
cis-1,3-Dichloropropene	ug/L	50	40.2	80	66-123	
Cyclohexane	ug/L	50	51.6J	103	66-133	N2
Dibromochloromethane	ug/L	50	49.0	98	70-123	
Dichlorodifluoromethane	ug/L	50	55.3	111	19-200	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

LABORATORY CONTROL SAMPLE: 583599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	50	50.2	100	75-120	
Isopropylbenzene (Cumene)	ug/L	50	52.2	104	73-123	
Methyl acetate	ug/L	50	51.1	102	10-200	N2
Methyl-tert-butyl ether	ug/L	100	85.3	85	66-128	
Methylcyclohexane	ug/L	50	ND	94	69-127	N2
Methylene chloride	ug/L	50	43.9	88	61-138	
Styrene	ug/L	50	50.8	102	75-125	
Tetrachloroethene	ug/L	50	47.6	95	57-125	
Toluene	ug/L	50	45.1	90	72-124	
trans-1,2-Dichloroethene	ug/L	50	44.6	89	71-145	
trans-1,3-Dichloropropene	ug/L	50	40.3	81	58-118	
Trichloroethene	ug/L	50	53.7	107	77-122	
Trichlorofluoromethane	ug/L	50	51.6	103	56-159	
Vinyl chloride	ug/L	50	53.5	107	61-146	
Xylene (Total)	ug/L	150	146	98	72-126	
4-Bromofluorobenzene (S)	%			106	72-125	
Dibromofluoromethane (S)	%			111	83-123	
Toluene-d8 (S)	%			90	81-114	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QC Batch: MSV/33199 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5049277003

METHOD BLANK: 584127 | Matrix: Water
Associated Lab Samples: 5049277003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/10/11 21:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/10/11 21:14	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/10/11 21:14	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/10/11 21:14	
1,1-Dichloroethane	ug/L	ND	5.0	06/10/11 21:14	
1,1-Dichloroethene	ug/L	ND	5.0	06/10/11 21:14	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/10/11 21:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	06/10/11 21:14	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/10/11 21:14	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/10/11 21:14	
1,2-Dichloroethane	ug/L	ND	5.0	06/10/11 21:14	
1,2-Dichloropropane	ug/L	ND	5.0	06/10/11 21:14	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/10/11 21:14	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/10/11 21:14	
2-Butanone (MEK)	ug/L	ND	25.0	06/10/11 21:14	
2-Hexanone	ug/L	ND	25.0	06/10/11 21:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/10/11 21:14	
Acetone	ug/L	ND	100	06/10/11 21:14	
Benzene	ug/L	ND	5.0	06/10/11 21:14	
Bromodichloromethane	ug/L	ND	5.0	06/10/11 21:14	
Bromoform	ug/L	ND	5.0	06/10/11 21:14	
Bromomethane	ug/L	ND	5.0	06/10/11 21:14	
Carbon disulfide	ug/L	ND	10.0	06/10/11 21:14	
Carbon tetrachloride	ug/L	ND	5.0	06/10/11 21:14	
Chlorobenzene	ug/L	ND	5.0	06/10/11 21:14	
Chloroethane	ug/L	ND	5.0	06/10/11 21:14	
Chloroform	ug/L	ND	5.0	06/10/11 21:14	
Chloromethane	ug/L	ND	5.0	06/10/11 21:14	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/10/11 21:14	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/10/11 21:14	
Cyclohexane	ug/L	ND	100	06/10/11 21:14	N2
Dibromochloromethane	ug/L	ND	5.0	06/10/11 21:14	
Dichlorodifluoromethane	ug/L	ND	5.0	06/10/11 21:14	
Ethylbenzene	ug/L	ND	5.0	06/10/11 21:14	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/10/11 21:14	
Methyl acetate	ug/L	ND	50.0	06/10/11 21:14	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	06/10/11 21:14	
Methylcyclohexane	ug/L	ND	50.0	06/10/11 21:14	N2
Methylene chloride	ug/L	ND	5.0	06/10/11 21:14	
Styrene	ug/L	ND	5.0	06/10/11 21:14	
Tetrachloroethene	ug/L	ND	5.0	06/10/11 21:14	
Toluene	ug/L	ND	5.0	06/10/11 21:14	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/10/11 21:14	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

METHOD BLANK: 584127 Matrix: Water

Associated Lab Samples: 5049277003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/10/11 21:14	
Trichloroethene	ug/L	ND	5.0	06/10/11 21:14	
Trichlorofluoromethane	ug/L	ND	5.0	06/10/11 21:14	
Vinyl chloride	ug/L	ND	2.0	06/10/11 21:14	
Xylene (Total)	ug/L	ND	10.0	06/10/11 21:14	
4-Bromofluorobenzene (S)	%	102	72-125	06/10/11 21:14	
Dibromofluoromethane (S)	%	94	83-123	06/10/11 21:14	
Toluene-d8 (S)	%	100	81-114	06/10/11 21:14	

LABORATORY CONTROL SAMPLE: 584128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.7	105	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	68-134	
1,1,2-Trichloroethane	ug/L	50	49.4	99	77-129	
1,1,2-Trichlorotrifluoroethane	ug/L	50	52.3	105	63-134	
1,1-Dichloroethane	ug/L	50	51.2	102	70-127	
1,1-Dichloroethene	ug/L	50	55.0	110	75-145	
1,2,4-Trichlorobenzene	ug/L	50	42.3	85	64-122	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	54-138	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	77-123	
1,2-Dichlorobenzene	ug/L	50	46.6	93	74-123	
1,2-Dichloroethane	ug/L	50	51.1	102	71-127	
1,2-Dichloropropane	ug/L	50	57.7	115	75-126	
1,3-Dichlorobenzene	ug/L	50	44.1	88	76-123	
1,4-Dichlorobenzene	ug/L	50	44.8	90	77-121	
2-Butanone (MEK)	ug/L	250	250	100	42-177	
2-Hexanone	ug/L	250	280	112	57-162	
4-Methyl-2-pentanone (MIBK)	ug/L	250	278	111	64-135	
Acetone	ug/L	250	289	116	10-200	
Benzene	ug/L	50	52.1	104	76-123	
Bromodichloromethane	ug/L	50	56.4	113	71-124	
Bromoform	ug/L	50	45.6	91	64-116	
Bromomethane	ug/L	50	51.7	103	23-197	
Carbon disulfide	ug/L	100	151	151	55-146	L3
Carbon tetrachloride	ug/L	50	53.3	107	65-125	
Chlorobenzene	ug/L	50	50.0	100	78-120	
Chloroethane	ug/L	50	56.4	113	56-163	
Chloroform	ug/L	50	50.6	101	73-122	
Chloromethane	ug/L	50	46.8	94	46-146	
cis-1,2-Dichloroethene	ug/L	50	55.9	112	79-129	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	66-123	
Cyclohexane	ug/L	50	54.5J	109	66-133	N2
Dibromochloromethane	ug/L	50	53.0	106	70-123	
Dichlorodifluoromethane	ug/L	50	58.9	118	19-200	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

LABORATORY CONTROL SAMPLE: 584128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	50	56.1	112	75-120	
Isopropylbenzene (Cumene)	ug/L	50	48.2	96	73-123	
Methyl acetate	ug/L	50	75.0	150	10-200	N2
Methyl-tert-butyl ether	ug/L	100	109	109	66-128	
Methylcyclohexane	ug/L	50	55.2	110	69-127	N2
Methylene chloride	ug/L	50	46.8	94	61-138	
Styrene	ug/L	50	61.0	122	75-125	
Tetrachloroethene	ug/L	50	47.6	95	57-125	
Toluene	ug/L	50	49.2	98	72-124	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	71-145	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	58-118	
Trichloroethene	ug/L	50	52.8	106	77-122	
Trichlorofluoromethane	ug/L	50	57.0	114	56-159	
Vinyl chloride	ug/L	50	66.1	132	61-146	
Xylene (Total)	ug/L	150	166	111	72-126	
4-Bromofluorobenzene (S)	%			99	72-125	
Dibromofluoromethane (S)	%			103	83-123	
Toluene-d8 (S)	%			101	81-114	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QC Batch: MSV/33200 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5049277002, 5049277006, 5049277007, 5049277008

METHOD BLANK: 584129 Matrix: Water
Associated Lab Samples: 5049277002, 5049277006, 5049277007, 5049277008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/10/11 21:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/10/11 21:31	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/10/11 21:31	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/10/11 21:31	
1,1-Dichloroethane	ug/L	ND	5.0	06/10/11 21:31	
1,1-Dichloroethene	ug/L	ND	5.0	06/10/11 21:31	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/10/11 21:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	06/10/11 21:31	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/10/11 21:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/10/11 21:31	
1,2-Dichloroethane	ug/L	ND	5.0	06/10/11 21:31	
1,2-Dichloropropane	ug/L	ND	5.0	06/10/11 21:31	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/10/11 21:31	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/10/11 21:31	
2-Butanone (MEK)	ug/L	ND	25.0	06/10/11 21:31	
2-Hexanone	ug/L	ND	25.0	06/10/11 21:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/10/11 21:31	
Acetone	ug/L	ND	100	06/10/11 21:31	
Benzene	ug/L	ND	5.0	06/10/11 21:31	
Bromodichloromethane	ug/L	ND	5.0	06/10/11 21:31	
Bromoform	ug/L	ND	5.0	06/10/11 21:31	
Bromomethane	ug/L	ND	5.0	06/10/11 21:31	
Carbon disulfide	ug/L	ND	10.0	06/10/11 21:31	
Carbon tetrachloride	ug/L	ND	5.0	06/10/11 21:31	
Chlorobenzene	ug/L	ND	5.0	06/10/11 21:31	
Chloroethane	ug/L	ND	5.0	06/10/11 21:31	
Chloroform	ug/L	ND	5.0	06/10/11 21:31	
Chloromethane	ug/L	ND	5.0	06/10/11 21:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/10/11 21:31	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/10/11 21:31	
Cyclohexane	ug/L	ND	100	06/10/11 21:31	N2
Dibromochloromethane	ug/L	ND	5.0	06/10/11 21:31	
Dichlorodifluoromethane	ug/L	ND	5.0	06/10/11 21:31	
Ethylbenzene	ug/L	ND	5.0	06/10/11 21:31	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/10/11 21:31	
Methyl acetate	ug/L	ND	50.0	06/10/11 21:31	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	06/10/11 21:31	
Methylcyclohexane	ug/L	ND	50.0	06/10/11 21:31	N2
Methylene chloride	ug/L	ND	5.0	06/10/11 21:31	
Styrene	ug/L	ND	5.0	06/10/11 21:31	
Tetrachloroethene	ug/L	ND	5.0	06/10/11 21:31	
Toluene	ug/L	ND	5.0	06/10/11 21:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/10/11 21:31	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

METHOD BLANK: 584129 Matrix: Water

Associated Lab Samples: 5049277002, 5049277006, 5049277007, 5049277008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/10/11 21:31	
Trichloroethene	ug/L	ND	5.0	06/10/11 21:31	
Trichlorofluoromethane	ug/L	ND	5.0	06/10/11 21:31	
Vinyl chloride	ug/L	ND	2.0	06/10/11 21:31	
Xylene (Total)	ug/L	ND	10.0	06/10/11 21:31	
4-Bromofluorobenzene (S)	%	102	72-125	06/10/11 21:31	
Dibromofluoromethane (S)	%	100	83-123	06/10/11 21:31	
Toluene-d8 (S)	%	104	81-114	06/10/11 21:31	

LABORATORY CONTROL SAMPLE: 584130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.2	86	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	45.9	92	68-134	
1,1,2-Trichloroethane	ug/L	50	41.0	82	77-129	
1,1,2-Trichlorotrifluoroethane	ug/L	50	39.1	78	63-134	
1,1-Dichloroethane	ug/L	50	40.5	81	70-127	
1,1-Dichloroethene	ug/L	50	41.8	84	75-145	
1,2,4-Trichlorobenzene	ug/L	50	39.2	78	64-122	
1,2-Dibromo-3-chloropropane	ug/L	50	42.9	86	54-138	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	77-123	
1,2-Dichlorobenzene	ug/L	50	42.0	84	74-123	
1,2-Dichloroethane	ug/L	50	40.1	80	71-127	
1,2-Dichloropropane	ug/L	50	44.4	89	75-126	
1,3-Dichlorobenzene	ug/L	50	45.2	90	76-123	
1,4-Dichlorobenzene	ug/L	50	44.8	90	77-121	
2-Butanone (MEK)	ug/L	250	210	84	42-177	
2-Hexanone	ug/L	250	219	87	57-162	
4-Methyl-2-pentanone (MIBK)	ug/L	250	219	87	64-135	
Acetone	ug/L	250	222	89	10-200	
Benzene	ug/L	50	42.7	85	76-123	
Bromodichloromethane	ug/L	50	41.7	83	71-124	
Bromoform	ug/L	50	41.3	83	64-116	
Bromomethane	ug/L	50	43.6	87	23-197	
Carbon disulfide	ug/L	100	112	112	55-146	
Carbon tetrachloride	ug/L	50	46.2	92	65-125	
Chlorobenzene	ug/L	50	44.2	88	78-120	
Chloroethane	ug/L	50	44.6	89	56-163	
Chloroform	ug/L	50	40.8	82	73-122	
Chloromethane	ug/L	50	43.7	87	46-146	
cis-1,2-Dichloroethene	ug/L	50	44.1	88	79-129	
cis-1,3-Dichloropropene	ug/L	50	40.2	80	66-123	
Cyclohexane	ug/L	50	ND	89	66-133	N2
Dibromochloromethane	ug/L	50	42.8	86	70-123	
Dichlorodifluoromethane	ug/L	50	50.7	101	19-200	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

LABORATORY CONTROL SAMPLE: 584130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	50	43.9	88	75-120	
Isopropylbenzene (Cumene)	ug/L	50	42.1	84	73-123	
Methyl acetate	ug/L	50	60.6	121	10-200	N2
Methyl-tert-butyl ether	ug/L	100	84.4	84	66-128	
Methylcyclohexane	ug/L	50	43.6J	87	69-127	N2
Methylene chloride	ug/L	50	43.3	87	61-138	
Styrene	ug/L	50	42.8	86	75-125	
Tetrachloroethene	ug/L	50	39.8	80	57-125	
Toluene	ug/L	50	43.1	86	72-124	
trans-1,2-Dichloroethene	ug/L	50	43.0	86	71-145	
trans-1,3-Dichloropropene	ug/L	50	41.2	82	58-118	
Trichloroethene	ug/L	50	42.0	84	77-122	
Trichlorofluoromethane	ug/L	50	47.9	96	56-159	
Vinyl chloride	ug/L	50	44.4	89	61-146	
Xylene (Total)	ug/L	150	134	90	72-126	
4-Bromofluorobenzene (S)	%			93	72-125	
Dibromofluoromethane (S)	%			99	83-123	
Toluene-d8 (S)	%			96	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 584131 584132

Parameter	Units	5049277002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	46.0	43.0	92	86	37-136	7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.9	47.9	92	96	47-132	4	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	42.6	41.0	85	82	53-131	4	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	46.3	42.9	93	86	53-132	8	20	
1,1-Dichloroethane	ug/L	ND	50	50	42.8	42.0	86	84	47-138	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	49.7	44.4	99	89	54-152	11	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	41.2	44.1	82	88	10-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	40.7	40.1	81	80	32-139	1	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.5	47.0	99	94	49-130	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	43.8	45.1	88	90	20-137	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	41.7	40.0	83	80	42-139	4	20	
1,2-Dichloropropane	ug/L	ND	50	50	45.4	45.4	91	91	50-131	.09	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	51.7	48.6	103	97	13-143	6	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.5	48.3	95	97	13-140	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	211	203	84	81	43-142	4	20	
2-Hexanone	ug/L	ND	250	250	212	198	85	79	46-139	7	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	221	211	88	84	43-140	5	20	
Acetone	ug/L	ND	250	250	222	227	89	91	38-155	2	20	
Benzene	ug/L	ND	50	50	45.0	43.1	90	86	52-134	4	20	
Bromodichloromethane	ug/L	ND	50	50	43.4	43.9	87	88	42-128	1	20	
Bromoform	ug/L	ND	50	50	39.7	42.4	79	85	34-116	7	20	
Bromomethane	ug/L	ND	50	50	44.6	44.3	89	89	10-200	.8	20	
Carbon disulfide	ug/L	ND	100	100	106	97.5	106	97	43-144	8	20	
Carbon tetrachloride	ug/L	ND	50	50	47.9	46.0	96	92	26-136	4	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029/Allison Transmission
Pace Project No.: 5049277

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 584131 584132

Parameter	Units	5049277002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	50	50	43.6	43.1	87	86	33-136	1	20	
Chloroethane	ug/L	ND	50	50	50.5	48.4	101	97	21-200	4	20	
Chloroform	ug/L	ND	50	50	44.3	42.5	89	85	50-134	4	20	
Chloromethane	ug/L	ND	50	50	49.6	46.8	99	94	32-160	6	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.3	46.1	99	92	48-145	7	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.2	45.7	90	91	35-116	1	20	
Cyclohexane	ug/L	ND	50	50	ND	ND	90	89	48-133		20	N2
Dibromochloromethane	ug/L	ND	50	50	43.6	41.6	87	83	39-122	5	20	
Dichlorodifluoromethane	ug/L	ND	50	50	56.4	53.3	113	107	35-200	6	20	
Ethylbenzene	ug/L	ND	50	50	48.7	47.9	97	96	29-132	2	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	45.3	44.2	91	88	11-146	3	20	
Methyl acetate	ug/L	ND	50	50	56.0	51.8	112	104	21-200	8	20	N2
Methyl-tert-butyl ether	ug/L	ND	100	100	88.5	81.9	88	82	39-137	8	20	
Methylcyclohexane	ug/L	ND	50	50	46.3J	45.8J	93	92	45-129		20	N2
Methylene chloride	ug/L	ND	50	50	47.1	44.2	94	88	47-141	6	20	
Styrene	ug/L	ND	50	50	46.0	40.1	92	80	20-143	14	20	
Tetrachloroethene	ug/L	ND	50	50	45.0	45.6	90	91	30-124	1	20	
Toluene	ug/L	ND	50	50	47.1	45.7	94	91	42-130	3	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	49.4	45.3	99	91	48-144	9	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.6	39.7	85	79	24-114	7	20	
Trichloroethene	ug/L	ND	50	50	46.1	44.7	92	89	44-130	3	20	
Trichlorofluoromethane	ug/L	ND	50	50	52.5	50.1	105	100	17-200	5	20	
Vinyl chloride	ug/L	ND	50	50	50.3	49.8	101	100	45-159	.9	20	
Xylene (Total)	ug/L	ND	150	150	144	138	96	92	29-131	5	20	
4-Bromofluorobenzene (S)	%						101	94	72-125		20	
Dibromofluoromethane (S)	%						102	101	83-123		20	
Toluene-d8 (S)	%						102	100	81-114		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
N2	The lab does not hold NELAC accreditation for this parameter.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

GM REALM ENCORE

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 1

ID # № 09340

SSOW Ref. Code: E027029

Required Client Information:

Company: ARCADIS	Report To: Sarah Fisher
Address: 251 E Ohio St. Ste 800 Indianapolis, IN 46204	Copy To:
	Invoice To:
	P.O.:
Phone: 3172316500	Project Name: Allison Transmission
Fax: 3172316514	Project Number:
E-mail: SFisher@arcadis-us.com	

Laboratory: PACE Analytical	
Laboratory Location: Indianapolis, IN	
Laboratory Contact: Donna Spyker	
Requested Due Date:	TAT:
QA/QC Requirements: LVL IV per Sarah 6/3/11	

Analysis and Method: per Sarah 6/3/11

5049277

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	VOCs	Remarks/Lab ID
1.	TB-1 (060211) -TP		—		3		X					X	Lab Supplied 001
2.	MW-1003-S3 (060211)		6/2/11	1100	9		X					X	MS/MSD 002
3.	MW-0524-S2A (060211)			1210	3		X					X	003
4.	MW-0524-S2B (060211)			1320	3		X					X	004
5.	EB-1 (060211) -TP			1340	3		X					X	Equipment Blank 005
6.	FD-1 (060211) -TP			—	3		X					X	Field Duplicate 006
7.	MW-0522-S2B (060211)			1535	3		X					X	007
8.	MW-0522-S2A (060211)			1710	3		X					X	008
9.													
10.													
11.													
12.													
13.													
14.													
15.													
	TOTAL NUMBER OF CONTAINERS												

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
		T. P. / ARCADIS	6/2/11	5:54	Maura Wilson	6/2/11	5:54
AIRBILL NO.							

Sample Condition

Temp in °C	10.2°C
Received on Ice	(Y) / N
Sealed Cooler	Y / (N)
Samples Intact	(Y) / N

Additional Comments:

Client WS

Sampler Name: Tim Porter

Sampler Signature: T. P. Date: 6/2/11

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6/04)

Sample Condition Upon Receipt

Pace Analytical

Client Name: ARCADIS Project # 5049277

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Foam Bits

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 10.2°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C Just sampled Comments:

Date and Initials of person examining contents: 6/2/11/mw

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	10.
Trip Blank Present:	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 6/3/11

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Arcadis

COC PAGE 1 of 1
COC ID# 9340

Project # 5649277

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															TB
2	9	DBS 6/3/11														
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Project Number 5049277

Initials/ Date Compiled RSW 6/14/11

Section 1: Prep and Analytical Information

** Sample Preparation Logs*
** Instrument Run Logs*
** Internal Standard Summary (Form 8A)*

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: TB-1(060211)-TP
Lab ID: 5049277001
Collected: 06/02/11 08:00
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/09/11 20:18	
71-43-2	Benzene	ND	ug/L	5.0	1		06/09/11 20:18	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/09/11 20:18	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/09/11 20:18	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/09/11 20:18	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/09/11 20:18	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/09/11 20:18	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/09/11 20:18	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/09/11 20:18	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/09/11 20:18	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/09/11 20:18	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/09/11 20:18	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/09/11 20:18	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/09/11 20:18	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/09/11 20:18	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/09/11 20:18	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/09/11 20:18	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/09/11 20:18	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/09/11 20:18	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/09/11 20:18	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/09/11 20:18	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/09/11 20:18	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/09/11 20:18	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/09/11 20:18	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/09/11 20:18	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/09/11 20:18	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/09/11 20:18	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/09/11 20:18	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/09/11 20:18	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/09/11 20:18	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/09/11 20:18	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/09/11 20:18	
100-42-5	Styrene	ND	ug/L	5.0	1		06/09/11 20:18	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/09/11 20:18	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/09/11 20:18	
108-88-3	Toluene	ND	ug/L	5.0	1		06/09/11 20:18	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/09/11 20:18	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/09/11 20:18	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/09/11 20:18	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: TB-1(060211)-TP
Lab ID: 5049277001
Collected: 06/02/11 08:00
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/09/11 20:18	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/09/11 20:18	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/09/11 20:18	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/09/11 20:18	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/09/11 20:18	
1868-53-7	Dibromofluoromethane (S)	**113**	%	83-123	1		06/09/11 20:18	
460-00-4	4-Bromofluorobenzene (S)	**110**	%	72-125	1		06/09/11 20:18	
2037-26-5	Toluene-d8 (S)	**88**	%	81-114	1		06/09/11 20:18	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1003-S3(060211)
Lab ID: 5049277002
Collected: 06/02/11 11:00
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/10/11 22:06	
71-43-2	Benzene	ND	ug/L	5.0	1		06/10/11 22:06	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/10/11 22:06	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/10/11 22:06	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/10/11 22:06	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/11 22:06	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/10/11 22:06	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/10/11 22:06	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/10/11 22:06	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/10/11 22:06	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/10/11 22:06	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/10/11 22:06	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/10/11 22:06	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/10/11 22:06	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/11 22:06	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/11 22:06	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/11 22:06	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/11 22:06	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/11 22:06	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 22:06	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 22:06	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/11 22:06	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 22:06	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 22:06	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/10/11 22:06	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/10/11 22:06	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/11 22:06	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/10/11 22:06	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/10/11 22:06	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/10/11 22:06	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/11 22:06	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/11 22:06	
100-42-5	Styrene	ND	ug/L	5.0	1		06/10/11 22:06	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/11 22:06	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/10/11 22:06	
108-88-3	Toluene	ND	ug/L	5.0	1		06/10/11 22:06	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/11 22:06	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/11 22:06	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/11 22:06	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1003-S3(060211)
Lab ID: 5049277002
Collected: 06/02/11 11:00
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/10/11 22:06	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/11 22:06	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/10/11 22:06	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/10/11 22:06	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/10/11 22:06	
1868-53-7	Dibromofluoromethane (S)	**107**	%	83-123	1		06/10/11 22:06	
460-00-4	4-Bromofluorobenzene (S)	**105**	%	72-125	1		06/10/11 22:06	
2037-26-5	Toluene-d8 (S)	**98**	%	81-114	1		06/10/11 22:06	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-0524-S2A(060211)
Lab ID: 5049277003
Collected: 06/02/11 12:10
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/11/11 07:43	
71-43-2	Benzene	ND	ug/L	5.0	1		06/11/11 07:43	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/11/11 07:43	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/11/11 07:43	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/11/11 07:43	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/11/11 07:43	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/11/11 07:43	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/11/11 07:43	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/11/11 07:43	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/11/11 07:43	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/11/11 07:43	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/11/11 07:43	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/11/11 07:43	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/11/11 07:43	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/11/11 07:43	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/11/11 07:43	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/11/11 07:43	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/11/11 07:43	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/11/11 07:43	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 07:43	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 07:43	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/11/11 07:43	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 07:43	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 07:43	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/11/11 07:43	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/11/11 07:43	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/11/11 07:43	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/11/11 07:43	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/11/11 07:43	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/11/11 07:43	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/11/11 07:43	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/11/11 07:43	
100-42-5	Styrene	ND	ug/L	5.0	1		06/11/11 07:43	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/11/11 07:43	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/11/11 07:43	
108-88-3	Toluene	ND	ug/L	5.0	1		06/11/11 07:43	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/11/11 07:43	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/11/11 07:43	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/11/11 07:43	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-0524-S2A(060211)
Lab ID: 5049277003
Collected: 06/02/11 12:10
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/11/11 07:43	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/11/11 07:43	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/11/11 07:43	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/11/11 07:43	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/11/11 07:43	
1868-53-7	Dibromofluoromethane (S)	**98**	%	83-123	1		06/11/11 07:43	
460-00-4	4-Bromofluorobenzene (S)	**104**	%	72-125	1		06/11/11 07:43	
2037-26-5	Toluene-d8 (S)	**106**	%	81-114	1		06/11/11 07:43	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-0524-S2B(060211)
Lab ID: 5049277004
Collected: 06/02/11 13:20
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/10/11 08:45	
71-43-2	Benzene	ND	ug/L	5.0	1		06/10/11 08:45	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/10/11 08:45	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/10/11 08:45	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/10/11 08:45	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/11 08:45	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/10/11 08:45	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/10/11 08:45	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/10/11 08:45	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/10/11 08:45	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/10/11 08:45	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/10/11 08:45	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/10/11 08:45	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/10/11 08:45	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/11 08:45	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/11 08:45	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/11 08:45	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/11 08:45	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/11 08:45	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 08:45	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 08:45	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/11 08:45	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 08:45	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 08:45	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/10/11 08:45	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/10/11 08:45	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/11 08:45	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/10/11 08:45	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/10/11 08:45	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/10/11 08:45	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/11 08:45	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/11 08:45	
100-42-5	Styrene	ND	ug/L	5.0	1		06/10/11 08:45	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/11 08:45	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/10/11 08:45	
108-88-3	Toluene	ND	ug/L	5.0	1		06/10/11 08:45	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/11 08:45	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/11 08:45	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/11 08:45	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-0524-S2B(060211)
Lab ID: 5049277004
Collected: 06/02/11 13:20
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/10/11 08:45	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/11 08:45	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/10/11 08:45	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/10/11 08:45	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/10/11 08:45	
1868-53-7	Dibromofluoromethane (S)	**110**	%	83-123	1		06/10/11 08:45	
460-00-4	4-Bromofluorobenzene (S)	**110**	%	72-125	1		06/10/11 08:45	
2037-26-5	Toluene-d8 (S)	**89**	%	81-114	1		06/10/11 08:45	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: EB-1(060211)-TP
Lab ID: 5049277005
Collected: 06/02/11 13:40
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/10/11 09:22	
71-43-2	Benzene	ND	ug/L	5.0	1		06/10/11 09:22	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/10/11 09:22	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/10/11 09:22	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/10/11 09:22	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/11 09:22	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/10/11 09:22	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/10/11 09:22	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/10/11 09:22	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/10/11 09:22	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/10/11 09:22	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/10/11 09:22	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/10/11 09:22	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/10/11 09:22	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/11 09:22	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/11 09:22	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/11 09:22	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/11 09:22	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/11 09:22	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 09:22	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 09:22	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/11 09:22	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 09:22	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 09:22	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/10/11 09:22	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/10/11 09:22	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/11 09:22	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/10/11 09:22	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/10/11 09:22	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/10/11 09:22	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/11 09:22	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/11 09:22	
100-42-5	Styrene	ND	ug/L	5.0	1		06/10/11 09:22	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/11 09:22	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/10/11 09:22	
108-88-3	Toluene	ND	ug/L	5.0	1		06/10/11 09:22	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/11 09:22	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/11 09:22	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/11 09:22	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: EB-1(060211)-TP
Lab ID: 5049277005
Collected: 06/02/11 13:40
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/10/11 09:22	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/11 09:22	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/10/11 09:22	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/10/11 09:22	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/10/11 09:22	
1868-53-7	Dibromofluoromethane (S)	**110**	%	83-123	1		06/10/11 09:22	
460-00-4	4-Bromofluorobenzene (S)	**109**	%	72-125	1		06/10/11 09:22	
2037-26-5	Toluene-d8 (S)	**90**	%	81-114	1		06/10/11 09:22	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: FD-1(060211)-TP
Lab ID: 5049277006
Collected: 06/02/11 08:00
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/10/11 23:50	
71-43-2	Benzene	ND	ug/L	5.0	1		06/10/11 23:50	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/10/11 23:50	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/10/11 23:50	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/10/11 23:50	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/10/11 23:50	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/10/11 23:50	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/10/11 23:50	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/10/11 23:50	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/10/11 23:50	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/10/11 23:50	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/10/11 23:50	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/10/11 23:50	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/10/11 23:50	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/10/11 23:50	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/10/11 23:50	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/10/11 23:50	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/10/11 23:50	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/10/11 23:50	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 23:50	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/10/11 23:50	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/10/11 23:50	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 23:50	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/10/11 23:50	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/10/11 23:50	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/10/11 23:50	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/10/11 23:50	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/10/11 23:50	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/10/11 23:50	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/10/11 23:50	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/10/11 23:50	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/10/11 23:50	
100-42-5	Styrene	ND	ug/L	5.0	1		06/10/11 23:50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/10/11 23:50	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/10/11 23:50	
108-88-3	Toluene	ND	ug/L	5.0	1		06/10/11 23:50	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/10/11 23:50	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/10/11 23:50	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/10/11 23:50	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: FD-1(060211)-TP
Lab ID: 5049277006
Collected: 06/02/11 08:00
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/10/11 23:50	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/10/11 23:50	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/10/11 23:50	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/10/11 23:50	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/10/11 23:50	
1868-53-7	Dibromofluoromethane (S)	**97**	%	83-123	1		06/10/11 23:50	
460-00-4	4-Bromofluorobenzene (S)	**104**	%	72-125	1		06/10/11 23:50	
2037-26-5	Toluene-d8 (S)	**102**	%	81-114	1		06/10/11 23:50	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-0522-S2B(060211)
Lab ID: 5049277007
Collected: 06/02/11 15:35
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/11/11 00:25	
71-43-2	Benzene	ND	ug/L	5.0	1		06/11/11 00:25	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/11/11 00:25	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/11/11 00:25	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/11/11 00:25	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/11/11 00:25	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/11/11 00:25	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/11/11 00:25	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/11/11 00:25	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/11/11 00:25	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/11/11 00:25	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/11/11 00:25	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/11/11 00:25	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/11/11 00:25	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/11/11 00:25	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/11/11 00:25	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/11/11 00:25	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/11/11 00:25	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:25	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:25	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:25	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/11/11 00:25	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 00:25	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 00:25	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/11/11 00:25	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/11/11 00:25	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/11/11 00:25	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/11/11 00:25	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/11/11 00:25	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/11/11 00:25	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/11/11 00:25	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/11/11 00:25	
100-42-5	Styrene	ND	ug/L	5.0	1		06/11/11 00:25	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/11/11 00:25	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/11/11 00:25	
108-88-3	Toluene	ND	ug/L	5.0	1		06/11/11 00:25	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:25	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/11/11 00:25	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/11/11 00:25	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-0522-S2B(060211)
Lab ID: 5049277007
Collected: 06/02/11 15:35
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/11/11 00:25	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/11/11 00:25	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/11/11 00:25	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/11/11 00:25	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/11/11 00:25	
1868-53-7	Dibromofluoromethane (S)	**99**	%	83-123	1		06/11/11 00:25	
460-00-4	4-Bromofluorobenzene (S)	**98**	%	72-125	1		06/11/11 00:25	
2037-26-5	Toluene-d8 (S)	**104**	%	81-114	1		06/11/11 00:25	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-0522-S2A(060211)
Lab ID: 5049277008
Collected: 06/02/11 17:10
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/11/11 00:58	
71-43-2	Benzene	ND	ug/L	5.0	1		06/11/11 00:58	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/11/11 00:58	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/11/11 00:58	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/11/11 00:58	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/11/11 00:58	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/11/11 00:58	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/11/11 00:58	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/11/11 00:58	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/11/11 00:58	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/11/11 00:58	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/11/11 00:58	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/11/11 00:58	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/11/11 00:58	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/11/11 00:58	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/11/11 00:58	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/11/11 00:58	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/11/11 00:58	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:58	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:58	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/11/11 00:58	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/11/11 00:58	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 00:58	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/11/11 00:58	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/11/11 00:58	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/11/11 00:58	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/11/11 00:58	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/11/11 00:58	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/11/11 00:58	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/11/11 00:58	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/11/11 00:58	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/11/11 00:58	
100-42-5	Styrene	ND	ug/L	5.0	1		06/11/11 00:58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/11/11 00:58	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/11/11 00:58	
108-88-3	Toluene	ND	ug/L	5.0	1		06/11/11 00:58	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/11/11 00:58	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/11/11 00:58	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/11/11 00:58	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-0522-S2A(060211)
Lab ID: 5049277008
Collected: 06/02/11 17:10
Received: 06/02/11 17:54

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/11/11 00:58	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/11/11 00:58	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/11/11 00:58	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/11/11 00:58	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/11/11 00:58	
1868-53-7	Dibromofluoromethane (S)	**99**	%	83-123	1		06/11/11 00:58	
460-00-4	4-Bromofluorobenzene (S)	**100**	%	72-125	1		06/11/11 00:58	
2037-26-5	Toluene-d8 (S)	**101**	%	81-114	1		06/11/11 00:58	

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33161
Method(s): EPA 8260
Associated Lab Samples: 5049277001

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	06/09/11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	06/09/11	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	06/09/11	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	06/09/11	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	06/09/11	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	06/09/11	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	06/09/11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	06/09/11	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	06/09/11	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	06/09/11	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	06/09/11	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	06/09/11	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	06/09/11	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	06/09/11	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	06/09/11	
591-78-6	2-Hexanone	ND	ug/L	25.0	06/09/11	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	06/09/11	
67-64-1	Acetone	ND	ug/L	100	06/09/11	
71-43-2	Benzene	ND	ug/L	5.0	06/09/11	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	06/09/11	
75-25-2	Bromoform	ND	ug/L	5.0	06/09/11	
74-83-9	Bromomethane	ND	ug/L	5.0	06/09/11	
75-15-0	Carbon disulfide	ND	ug/L	10.0	06/09/11	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	06/09/11	
108-90-7	Chlorobenzene	ND	ug/L	5.0	06/09/11	
75-00-3	Chloroethane	ND	ug/L	5.0	06/09/11	
67-66-3	Chloroform	ND	ug/L	5.0	06/09/11	
74-87-3	Chloromethane	ND	ug/L	5.0	06/09/11	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	06/09/11	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33161
Method(s): EPA 8260
Associated Lab Samples: 5049277001

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	06/09/11	
110-82-7	Cyclohexane	ND	ug/L	100	06/09/11	N2
124-48-1	Dibromochloromethane	ND	ug/L	5.0	06/09/11	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	06/09/11	
100-41-4	Ethylbenzene	ND	ug/L	5.0	06/09/11	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	06/09/11	
79-20-9	Methyl acetate	ND	ug/L	50.0	06/09/11	N2
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	06/09/11	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	06/09/11	N2
75-09-2	Methylene chloride	ND	ug/L	5.0	06/09/11	
100-42-5	Styrene	ND	ug/L	5.0	06/09/11	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	06/09/11	
108-88-3	Toluene	ND	ug/L	5.0	06/09/11	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	06/09/11	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	06/09/11	
79-01-6	Trichloroethene	ND	ug/L	5.0	06/09/11	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	06/09/11	
75-01-4	Vinyl chloride	ND	ug/L	2.0	06/09/11	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	06/09/11	

Type	Sample	Matrix
BLANK	583384	Water

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SURROGATE RECOVERY SUMMARY

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV / 33161
Method(s): EPA 8260 / EPA 8260

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec	Sur1 Qual	Sur2 % Rec	Sur2 Qual	Sur3 % Rec	Sur3 Qual	Sur4 % Rec	Sur4 Qual	Sur5 % Rec	Sur5 Qual	Sur6 % Rec	Sur6 Qual
5049277001		TB-1(060211)-TP	1	110		113		88							
583384	BLANK		1	111		119		90							
583385	LCS		1	112		100		92							
		QC Limits:		72-125		83-123		81-114							

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33161
Method(s): EPA 8260

LCS Prepared:
LCSD Prepared:

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	104			69-126		50	52.1		ug/L	06/09/11			
1,1,2,2-Tetrachloroethane	107			68-134		50	53.6		ug/L	06/09/11			
1,1,2-Trichloroethane	109			77-129		50	54.4		ug/L	06/09/11			
1,1,2-Trichlorotrifluoroethane	102			63-134		50	50.9		ug/L	06/09/11			
1,1-Dichloroethane	96			70-127		50	47.8		ug/L	06/09/11			
1,1-Dichloroethene	108			75-145		50	54.0		ug/L	06/09/11			
1,2,4-Trichlorobenzene	135			64-122		50	67.4		ug/L	06/09/11		L3	
1,2-Dibromo-3-chloropropane	143			54-138		50	71.6		ug/L	06/09/11		L3	
1,2-Dibromoethane (EDB)	109			77-123		50	54.3		ug/L	06/09/11			
1,2-Dichlorobenzene	111			74-123		50	55.4		ug/L	06/09/11			
1,2-Dichloroethane	126			71-127		50	62.9		ug/L	06/09/11			
1,2-Dichloropropane	103			75-126		50	51.7		ug/L	06/09/11			
1,3-Dichlorobenzene	109			76-123		50	54.5		ug/L	06/09/11			
1,4-Dichlorobenzene	104			77-121		50	52.2		ug/L	06/09/11			
2-Butanone (MEK)	123			42-177		250	307		ug/L	06/09/11			
2-Hexanone	120			57-162		250	300		ug/L	06/09/11			
4-Methyl-2-pentanone (MIBK)	101			64-135		250	254		ug/L	06/09/11			
Acetone	119			10-200		250	297		ug/L	06/09/11			
Benzene	123			76-123		50	61.3		ug/L	06/09/11			
Bromodichloromethane	118			71-124		50	58.8		ug/L	06/09/11			
Bromoform	108			64-116		50	54.1		ug/L	06/09/11			
Bromomethane	131			23-197		50	65.6		ug/L	06/09/11			
Carbon disulfide	99			55-146		100	99.5		ug/L	06/09/11			
Carbon tetrachloride	103			65-125		50	51.3		ug/L	06/09/11			
Chlorobenzene	106			78-120		50	53.2		ug/L	06/09/11			
Chloroethane	111			56-163		50	55.3		ug/L	06/09/11			
Chloroform	100			73-122		50	49.9		ug/L	06/09/11			
Chloromethane	81			46-146		50	40.4		ug/L	06/09/11			
cis-1,2-Dichloroethene	114			79-129		50	57.2		ug/L	06/09/11			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33161 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
cis-1,3-Dichloropropene	95			66-123		50	47.5		ug/L	06/09/11			
Cyclohexane	93			66-133		50	ND		ug/L	06/09/11		N2	
Dibromochloromethane	109			70-123		50	54.3		ug/L	06/09/11			
Dichlorodifluoromethane	127			19-200		50	63.7		ug/L	06/09/11			
Ethylbenzene	111			75-120		50	55.7		ug/L	06/09/11			
Isopropylbenzene (Cumene)	116			73-123		50	58.0		ug/L	06/09/11			
Methyl acetate	141			10-200		50	70.7		ug/L	06/09/11		N2	
Methyl-tert-butyl ether	112			66-128		100	112		ug/L	06/09/11			
Methylcyclohexane	100			69-127		50	50.1		ug/L	06/09/11		N2	
Methylene chloride	116			61-138		50	58.0		ug/L	06/09/11			
Styrene	115			75-125		50	57.5		ug/L	06/09/11			
Tetrachloroethene	107			57-125		50	53.3		ug/L	06/09/11			
Toluene	100			72-124		50	50.0		ug/L	06/09/11			
trans-1,2-Dichloroethene	109			71-145		50	54.7		ug/L	06/09/11			
trans-1,3-Dichloropropene	97			58-118		50	48.4		ug/L	06/09/11			
Trichloroethene	115			77-122		50	57.7		ug/L	06/09/11			
Trichlorofluoromethane	113			56-159		50	56.6		ug/L	06/09/11			
Vinyl chloride	119			61-146		50	59.4		ug/L	06/09/11			
Xylene (Total)	109			72-126		150	164		ug/L	06/09/11			

Type	Sample
LCS	583385

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33174 **Prepared:**
Method(s): EPA 8260
Associated Lab Samples: 5049277004, 5049277005

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	06/10/11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	06/10/11	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	06/10/11	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	06/10/11	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	06/10/11	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	06/10/11	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	06/10/11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	06/10/11	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	06/10/11	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	06/10/11	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	06/10/11	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	06/10/11	
591-78-6	2-Hexanone	ND	ug/L	25.0	06/10/11	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	06/10/11	
67-64-1	Acetone	ND	ug/L	100	06/10/11	
71-43-2	Benzene	ND	ug/L	5.0	06/10/11	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	06/10/11	
75-25-2	Bromoform	ND	ug/L	5.0	06/10/11	
74-83-9	Bromomethane	ND	ug/L	5.0	06/10/11	
75-15-0	Carbon disulfide	ND	ug/L	10.0	06/10/11	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	06/10/11	
108-90-7	Chlorobenzene	ND	ug/L	5.0	06/10/11	
75-00-3	Chloroethane	ND	ug/L	5.0	06/10/11	
67-66-3	Chloroform	ND	ug/L	5.0	06/10/11	
74-87-3	Chloromethane	ND	ug/L	5.0	06/10/11	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	06/10/11	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33174 **Prepared:**
Method(s): EPA 8260
Associated Lab Samples: 5049277004, 5049277005

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	06/10/11	
110-82-7	Cyclohexane	ND	ug/L	100	06/10/11	N2
124-48-1	Dibromochloromethane	ND	ug/L	5.0	06/10/11	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	06/10/11	
100-41-4	Ethylbenzene	ND	ug/L	5.0	06/10/11	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	06/10/11	
79-20-9	Methyl acetate	ND	ug/L	50.0	06/10/11	N2
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	06/10/11	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	06/10/11	N2
75-09-2	Methylene chloride	ND	ug/L	5.0	06/10/11	
100-42-5	Styrene	ND	ug/L	5.0	06/10/11	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	06/10/11	
108-88-3	Toluene	ND	ug/L	5.0	06/10/11	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	06/10/11	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	06/10/11	
79-01-6	Trichloroethene	ND	ug/L	5.0	06/10/11	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	06/10/11	
75-01-4	Vinyl chloride	ND	ug/L	2.0	06/10/11	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	06/10/11	

Type	Sample	Matrix
BLANK	583598	Water

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SURROGATE RECOVERY SUMMARY

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV / 33174
Method(s): EPA 8260 / EPA 8260

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec	Sur1 Qual	Sur2 % Rec	Sur2 Qual	Sur3 % Rec	Sur3 Qual	Sur4 % Rec	Sur4 Qual	Sur5 % Rec	Sur5 Qual	Sur6 % Rec	Sur6 Qual
583598	BLANK		1	109		121		90							
583599	LCS		1	106		111		90							
5049277004		MW-0524-S2B(060211)	1	110		110		89							
5049277005		EB-1(060211)-TP	1	109		110		90							
			QC Limits:	72-125		83-123		81-114							

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33174 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	116			69-126		50	58.1		ug/L	06/10/11			
1,1,2,2-Tetrachloroethane	94			68-134		50	47.2		ug/L	06/10/11			
1,1,2-Trichloroethane	95			77-129		50	47.6		ug/L	06/10/11			
1,1,2-Trichlorotrifluoroethane	96			63-134		50	48.0		ug/L	06/10/11			
1,1-Dichloroethane	77			70-127		50	38.5		ug/L	06/10/11			
1,1-Dichloroethene	101			75-145		50	50.6		ug/L	06/10/11			
1,2,4-Trichlorobenzene	110			64-122		50	54.8		ug/L	06/10/11			
1,2-Dibromo-3-chloropropane	125			54-138		50	62.7		ug/L	06/10/11			
1,2-Dibromoethane (EDB)	102			77-123		50	50.9		ug/L	06/10/11			
1,2-Dichlorobenzene	100			74-123		50	49.8		ug/L	06/10/11			
1,2-Dichloroethane	118			71-127		50	58.9		ug/L	06/10/11			
1,2-Dichloropropane	96			75-126		50	48.1		ug/L	06/10/11			
1,3-Dichlorobenzene	95			76-123		50	47.7		ug/L	06/10/11			
1,4-Dichlorobenzene	92			77-121		50	45.9		ug/L	06/10/11			
2-Butanone (MEK)	119			42-177		250	297		ug/L	06/10/11			
2-Hexanone	92			57-162		250	230		ug/L	06/10/11			
4-Methyl-2-pentanone (MIBK)	87			64-135		250	217		ug/L	06/10/11			
Acetone	90			10-200		250	226		ug/L	06/10/11			
Benzene	111			76-123		50	55.7		ug/L	06/10/11			
Bromodichloromethane	109			71-124		50	54.4		ug/L	06/10/11			
Bromoform	95			64-116		50	47.7		ug/L	06/10/11			
Bromomethane	119			23-197		50	59.3		ug/L	06/10/11			
Carbon disulfide	80			55-146		100	79.7		ug/L	06/10/11			
Carbon tetrachloride	117			65-125		50	58.4		ug/L	06/10/11			
Chlorobenzene	95			78-120		50	47.7		ug/L	06/10/11			
Chloroethane	100			56-163		50	50.2		ug/L	06/10/11			
Chloroform	106			73-122		50	53.0		ug/L	06/10/11			
Chloromethane	72			46-146		50	36.0		ug/L	06/10/11			
cis-1,2-Dichloroethene	112			79-129		50	56.2		ug/L	06/10/11			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33174
Method(s): EPA 8260

LCS Prepared:
LCSD Prepared:

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
cis-1,3-Dichloropropene	80			66-123		50	40.2		ug/L	06/10/11			
Cyclohexane	103			66-133		50	51.6J		ug/L	06/10/11		N2	
Dibromochloromethane	98			70-123		50	49.0		ug/L	06/10/11			
Dichlorodifluoromethane	111			19-200		50	55.3		ug/L	06/10/11			
Ethylbenzene	100			75-120		50	50.2		ug/L	06/10/11			
Isopropylbenzene (Cumene)	104			73-123		50	52.2		ug/L	06/10/11			
Methyl acetate	102			10-200		50	51.1		ug/L	06/10/11		N2	
Methyl-tert-butyl ether	85			66-128		100	85.3		ug/L	06/10/11			
Methylcyclohexane	94			69-127		50	ND		ug/L	06/10/11		N2	
Methylene chloride	88			61-138		50	43.9		ug/L	06/10/11			
Styrene	102			75-125		50	50.8		ug/L	06/10/11			
Tetrachloroethene	95			57-125		50	47.6		ug/L	06/10/11			
Toluene	90			72-124		50	45.1		ug/L	06/10/11			
trans-1,2-Dichloroethene	89			71-145		50	44.6		ug/L	06/10/11			
trans-1,3-Dichloropropene	81			58-118		50	40.3		ug/L	06/10/11			
Trichloroethene	107			77-122		50	53.7		ug/L	06/10/11			
Trichlorofluoromethane	103			56-159		50	51.6		ug/L	06/10/11			
Vinyl chloride	107			61-146		50	53.5		ug/L	06/10/11			
Xylene (Total)	98			72-126		150	146		ug/L	06/10/11			

Type	Sample
LCS	583599

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33199
Method(s): EPA 8260
Associated Lab Samples: 5049277003

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	06/10/11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	06/10/11	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	06/10/11	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	06/10/11	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	06/10/11	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	06/10/11	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	06/10/11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	06/10/11	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	06/10/11	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	06/10/11	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	06/10/11	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	06/10/11	
591-78-6	2-Hexanone	ND	ug/L	25.0	06/10/11	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	06/10/11	
67-64-1	Acetone	ND	ug/L	100	06/10/11	
71-43-2	Benzene	ND	ug/L	5.0	06/10/11	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	06/10/11	
75-25-2	Bromoform	ND	ug/L	5.0	06/10/11	
74-83-9	Bromomethane	ND	ug/L	5.0	06/10/11	
75-15-0	Carbon disulfide	ND	ug/L	10.0	06/10/11	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	06/10/11	
108-90-7	Chlorobenzene	ND	ug/L	5.0	06/10/11	
75-00-3	Chloroethane	ND	ug/L	5.0	06/10/11	
67-66-3	Chloroform	ND	ug/L	5.0	06/10/11	
74-87-3	Chloromethane	ND	ug/L	5.0	06/10/11	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	06/10/11	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33199
Method(s): EPA 8260
Associated Lab Samples: 5049277003

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	06/10/11	
110-82-7	Cyclohexane	ND	ug/L	100	06/10/11	N2
124-48-1	Dibromochloromethane	ND	ug/L	5.0	06/10/11	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	06/10/11	
100-41-4	Ethylbenzene	ND	ug/L	5.0	06/10/11	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	06/10/11	
79-20-9	Methyl acetate	ND	ug/L	50.0	06/10/11	N2
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	06/10/11	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	06/10/11	N2
75-09-2	Methylene chloride	ND	ug/L	5.0	06/10/11	
100-42-5	Styrene	ND	ug/L	5.0	06/10/11	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	06/10/11	
108-88-3	Toluene	ND	ug/L	5.0	06/10/11	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	06/10/11	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	06/10/11	
79-01-6	Trichloroethene	ND	ug/L	5.0	06/10/11	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	06/10/11	
75-01-4	Vinyl chloride	ND	ug/L	2.0	06/10/11	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	06/10/11	

Type	Sample	Matrix
BLANK	584127	Water

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SURROGATE RECOVERY SUMMARY

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV / 33199
Method(s): EPA 8260 / EPA 8260

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec	Sur1 Qual	Sur2 % Rec	Sur2 Qual	Sur3 % Rec	Sur3 Qual	Sur4 % Rec	Sur4 Qual	Sur5 % Rec	Sur5 Qual	Sur6 % Rec	Sur6 Qual
584127	BLANK		1	102		94		100							
584128	LCS		1	99		103		101							
5049277003		MW-0524-S2A(060211)	1	104		98		106							
			QC Limits:	72-125		83-123		81-114							

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33199 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	105			69-126		50	52.7		ug/L	06/10/11			
1,1,2,2-Tetrachloroethane	98			68-134		50	48.9		ug/L	06/10/11			
1,1,2-Trichloroethane	99			77-129		50	49.4		ug/L	06/10/11			
1,1,2-Trichlorotrifluoroethane	105			63-134		50	52.3		ug/L	06/10/11			
1,1-Dichloroethane	102			70-127		50	51.2		ug/L	06/10/11			
1,1-Dichloroethene	110			75-145		50	55.0		ug/L	06/10/11			
1,2,4-Trichlorobenzene	85			64-122		50	42.3		ug/L	06/10/11			
1,2-Dibromo-3-chloropropane	103			54-138		50	51.6		ug/L	06/10/11			
1,2-Dibromoethane (EDB)	102			77-123		50	51.0		ug/L	06/10/11			
1,2-Dichlorobenzene	93			74-123		50	46.6		ug/L	06/10/11			
1,2-Dichloroethane	102			71-127		50	51.1		ug/L	06/10/11			
1,2-Dichloropropane	115			75-126		50	57.7		ug/L	06/10/11			
1,3-Dichlorobenzene	88			76-123		50	44.1		ug/L	06/10/11			
1,4-Dichlorobenzene	90			77-121		50	44.8		ug/L	06/10/11			
2-Butanone (MEK)	100			42-177		250	250		ug/L	06/10/11			
2-Hexanone	112			57-162		250	280		ug/L	06/10/11			
4-Methyl-2-pentanone (MIBK)	111			64-135		250	278		ug/L	06/10/11			
Acetone	116			10-200		250	289		ug/L	06/10/11			
Benzene	104			76-123		50	52.1		ug/L	06/10/11			
Bromodichloromethane	113			71-124		50	56.4		ug/L	06/10/11			
Bromoform	91			64-116		50	45.6		ug/L	06/10/11			
Bromomethane	103			23-197		50	51.7		ug/L	06/10/11			
Carbon disulfide	151			55-146		100	151		ug/L	06/10/11		L3	
Carbon tetrachloride	107			65-125		50	53.3		ug/L	06/10/11			
Chlorobenzene	100			78-120		50	50.0		ug/L	06/10/11			
Chloroethane	113			56-163		50	56.4		ug/L	06/10/11			
Chloroform	101			73-122		50	50.6		ug/L	06/10/11			
Chloromethane	94			46-146		50	46.8		ug/L	06/10/11			
cis-1,2-Dichloroethene	112			79-129		50	55.9		ug/L	06/10/11			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33199 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
cis-1,3-Dichloropropene	99			66-123		50	49.4		ug/L	06/10/11			
Cyclohexane	109			66-133		50	54.5J		ug/L	06/10/11		N2	
Dibromochloromethane	106			70-123		50	53.0		ug/L	06/10/11			
Dichlorodifluoromethane	118			19-200		50	58.9		ug/L	06/10/11			
Ethylbenzene	112			75-120		50	56.1		ug/L	06/10/11			
Isopropylbenzene (Cumene)	96			73-123		50	48.2		ug/L	06/10/11			
Methyl acetate	150			10-200		50	75.0		ug/L	06/10/11		N2	
Methyl-tert-butyl ether	109			66-128		100	109		ug/L	06/10/11			
Methylcyclohexane	110			69-127		50	55.2		ug/L	06/10/11		N2	
Methylene chloride	94			61-138		50	46.8		ug/L	06/10/11			
Styrene	122			75-125		50	61.0		ug/L	06/10/11			
Tetrachloroethene	95			57-125		50	47.6		ug/L	06/10/11			
Toluene	98			72-124		50	49.2		ug/L	06/10/11			
trans-1,2-Dichloroethene	107			71-145		50	53.4		ug/L	06/10/11			
trans-1,3-Dichloropropene	95			58-118		50	47.6		ug/L	06/10/11			
Trichloroethene	106			77-122		50	52.8		ug/L	06/10/11			
Trichlorofluoromethane	114			56-159		50	57.0		ug/L	06/10/11			
Vinyl chloride	132			61-146		50	66.1		ug/L	06/10/11			
Xylene (Total)	111			72-126		150	166		ug/L	06/10/11			

Type	Sample
LCS	584128

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33200 **Prepared:**
Method(s): EPA 8260
Associated Lab Samples: 5049277002, 5049277006, 5049277007, 5049277008

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	06/10/11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	06/10/11	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	06/10/11	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	06/10/11	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	06/10/11	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	06/10/11	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	06/10/11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	06/10/11	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	06/10/11	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	06/10/11	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	06/10/11	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	06/10/11	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	06/10/11	
591-78-6	2-Hexanone	ND	ug/L	25.0	06/10/11	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	06/10/11	
67-64-1	Acetone	ND	ug/L	100	06/10/11	
71-43-2	Benzene	ND	ug/L	5.0	06/10/11	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	06/10/11	
75-25-2	Bromoform	ND	ug/L	5.0	06/10/11	
74-83-9	Bromomethane	ND	ug/L	5.0	06/10/11	
75-15-0	Carbon disulfide	ND	ug/L	10.0	06/10/11	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	06/10/11	
108-90-7	Chlorobenzene	ND	ug/L	5.0	06/10/11	
75-00-3	Chloroethane	ND	ug/L	5.0	06/10/11	
67-66-3	Chloroform	ND	ug/L	5.0	06/10/11	
74-87-3	Chloromethane	ND	ug/L	5.0	06/10/11	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	06/10/11	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33200 **Prepared:**
Method(s): EPA 8260
Associated Lab Samples: 5049277002, 5049277006, 5049277007, 5049277008

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	06/10/11	
110-82-7	Cyclohexane	ND	ug/L	100	06/10/11	N2
124-48-1	Dibromochloromethane	ND	ug/L	5.0	06/10/11	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	06/10/11	
100-41-4	Ethylbenzene	ND	ug/L	5.0	06/10/11	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	06/10/11	
79-20-9	Methyl acetate	ND	ug/L	50.0	06/10/11	N2
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	06/10/11	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	06/10/11	N2
75-09-2	Methylene chloride	ND	ug/L	5.0	06/10/11	
100-42-5	Styrene	ND	ug/L	5.0	06/10/11	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	06/10/11	
108-88-3	Toluene	ND	ug/L	5.0	06/10/11	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	06/10/11	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	06/10/11	
79-01-6	Trichloroethene	ND	ug/L	5.0	06/10/11	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	06/10/11	
75-01-4	Vinyl chloride	ND	ug/L	2.0	06/10/11	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	06/10/11	

Type	Sample	Matrix
BLANK	584129	Water

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SURROGATE RECOVERY SUMMARY

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV / 33200
Method(s): EPA 8260 / EPA 8260

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec	Sur1 Qual	Sur2 % Rec	Sur2 Qual	Sur3 % Rec	Sur3 Qual	Sur4 % Rec	Sur4 Qual	Sur5 % Rec	Sur5 Qual	Sur6 % Rec	Sur6 Qual
584129	BLANK		1	102		100		104							
5049277002	RQS	MW-1003-S3(060211)	1	105		107		98							
584130	LCS		1	93		99		96							
584131	MS		1	101		102		102							
584132	MSD		1	94		101		100							
5049277006		FD-1(060211)-TP	1	104		97		102							
5049277007		MW-0522-S2B(060211)	1	98		99		104							
5049277008		MW-0522-S2A(060211)	1	100		99		101							
			QC Limits:	72-125		83-123		81-114							

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

Date: 06/16/2011 09:01 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33200
Method(s): EPA 8260

LCS Prepared:
LCSD Prepared:

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	86			69-126		50	43.2		ug/L	06/10/11			
1,1,2,2-Tetrachloroethane	92			68-134		50	45.9		ug/L	06/10/11			
1,1,2-Trichloroethane	82			77-129		50	41.0		ug/L	06/10/11			
1,1,2-Trichlorotrifluoroethane	78			63-134		50	39.1		ug/L	06/10/11			
1,1-Dichloroethane	81			70-127		50	40.5		ug/L	06/10/11			
1,1-Dichloroethene	84			75-145		50	41.8		ug/L	06/10/11			
1,2,4-Trichlorobenzene	78			64-122		50	39.2		ug/L	06/10/11			
1,2-Dibromo-3-chloropropane	86			54-138		50	42.9		ug/L	06/10/11			
1,2-Dibromoethane (EDB)	95			77-123		50	47.4		ug/L	06/10/11			
1,2-Dichlorobenzene	84			74-123		50	42.0		ug/L	06/10/11			
1,2-Dichloroethane	80			71-127		50	40.1		ug/L	06/10/11			
1,2-Dichloropropane	89			75-126		50	44.4		ug/L	06/10/11			
1,3-Dichlorobenzene	90			76-123		50	45.2		ug/L	06/10/11			
1,4-Dichlorobenzene	90			77-121		50	44.8		ug/L	06/10/11			
2-Butanone (MEK)	84			42-177		250	210		ug/L	06/10/11			
2-Hexanone	87			57-162		250	219		ug/L	06/10/11			
4-Methyl-2-pentanone (MIBK)	87			64-135		250	219		ug/L	06/10/11			
Acetone	89			10-200		250	222		ug/L	06/10/11			
Benzene	85			76-123		50	42.7		ug/L	06/10/11			
Bromodichloromethane	83			71-124		50	41.7		ug/L	06/10/11			
Bromoform	83			64-116		50	41.3		ug/L	06/10/11			
Bromomethane	87			23-197		50	43.6		ug/L	06/10/11			
Carbon disulfide	112			55-146		100	112		ug/L	06/10/11			
Carbon tetrachloride	92			65-125		50	46.2		ug/L	06/10/11			
Chlorobenzene	88			78-120		50	44.2		ug/L	06/10/11			
Chloroethane	89			56-163		50	44.6		ug/L	06/10/11			
Chloroform	82			73-122		50	40.8		ug/L	06/10/11			
Chloromethane	87			46-146		50	43.7		ug/L	06/10/11			
cis-1,2-Dichloroethene	88			79-129		50	44.1		ug/L	06/10/11			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33200
Method(s): EPA 8260

LCS Prepared:
LCSD Prepared:

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
cis-1,3-Dichloropropene	80			66-123		50	40.2		ug/L	06/10/11			
Cyclohexane	89			66-133		50	ND		ug/L	06/10/11		N2	
Dibromochloromethane	86			70-123		50	42.8		ug/L	06/10/11			
Dichlorodifluoromethane	101			19-200		50	50.7		ug/L	06/10/11			
Ethylbenzene	88			75-120		50	43.9		ug/L	06/10/11			
Isopropylbenzene (Cumene)	84			73-123		50	42.1		ug/L	06/10/11			
Methyl acetate	121			10-200		50	60.6		ug/L	06/10/11		N2	
Methyl-tert-butyl ether	84			66-128		100	84.4		ug/L	06/10/11			
Methylcyclohexane	87			69-127		50	43.6J		ug/L	06/10/11		N2	
Methylene chloride	87			61-138		50	43.3		ug/L	06/10/11			
Styrene	86			75-125		50	42.8		ug/L	06/10/11			
Tetrachloroethene	80			57-125		50	39.8		ug/L	06/10/11			
Toluene	86			72-124		50	43.1		ug/L	06/10/11			
trans-1,2-Dichloroethene	86			71-145		50	43.0		ug/L	06/10/11			
trans-1,3-Dichloropropene	82			58-118		50	41.2		ug/L	06/10/11			
Trichloroethene	84			77-122		50	42.0		ug/L	06/10/11			
Trichlorofluoromethane	96			56-159		50	47.9		ug/L	06/10/11			
Vinyl chloride	89			61-146		50	44.4		ug/L	06/10/11			
Xylene (Total)	90			72-126		150	134		ug/L	06/10/11			

Type	Sample
LCS	584130

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

MATRIX SPIKE SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33200
Method(s): EPA 8260

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc MS	Spike Conc MSD	Result MS	Result MSD	Dilution MS	Dilution MSD	% Recovery MS	% Recovery MSD	QC Limits %Recovery	RPD	Max RPD	Analyzed Date MS	Analyzed Date MSD	Qualifier(s) MS	Qualifier(s) MSD
1,1,1-Trichloroethane	ug/L	ND	50	50	46.0	43.0	1	1	92	86	37-136	7	20	06/10/11	06/10/11		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.9	47.9	1	1	92	96	47-132	4	20	06/10/11	06/10/11		
1,1,2-Trichloroethane	ug/L	ND	50	50	42.6	41.0	1	1	85	82	53-131	4	20	06/10/11	06/10/11		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	46.3	42.9	1	1	93	86	53-132	8	20	06/10/11	06/10/11		
1,1-Dichloroethane	ug/L	ND	50	50	42.8	42.0	1	1	86	84	47-138	2	20	06/10/11	06/10/11		
1,1-Dichloroethene	ug/L	ND	50	50	49.7	44.4	1	1	99	89	54-152	11	20	06/10/11	06/10/11		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	41.2	44.1	1	1	82	88	10-130	7	20	06/10/11	06/10/11		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	40.7	40.1	1	1	81	80	32-139	1	20	06/10/11	06/10/11		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.5	47.0	1	1	99	94	49-130	5	20	06/10/11	06/10/11		
1,2-Dichlorobenzene	ug/L	ND	50	50	43.8	45.1	1	1	88	90	20-137	3	20	06/10/11	06/10/11		
1,2-Dichloroethane	ug/L	ND	50	50	41.7	40.0	1	1	83	80	42-139	4	20	06/10/11	06/10/11		
1,2-Dichloropropane	ug/L	ND	50	50	45.4	45.4	1	1	91	91	50-131	0.09	20	06/10/11	06/10/11		
1,3-Dichlorobenzene	ug/L	ND	50	50	51.7	48.6	1	1	103	97	13-143	6	20	06/10/11	06/10/11		
1,4-Dichlorobenzene	ug/L	ND	50	50	47.5	48.3	1	1	95	97	13-140	2	20	06/10/11	06/10/11		
2-Butanone (MEK)	ug/L	ND	250	250	211	203	1	1	84	81	43-142	4	20	06/10/11	06/10/11		
2-Hexanone	ug/L	ND	250	250	212	198	1	1	85	79	46-139	7	20	06/10/11	06/10/11		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	221	211	1	1	88	84	43-140	5	20	06/10/11	06/10/11		
Acetone	ug/L	ND	250	250	222	227	1	1	89	91	38-155	2	20	06/10/11	06/10/11		
Benzene	ug/L	ND	50	50	45.0	43.1	1	1	90	86	52-134	4	20	06/10/11	06/10/11		
Bromodichloromethane	ug/L	ND	50	50	43.4	43.9	1	1	87	88	42-128	1	20	06/10/11	06/10/11		
Bromoform	ug/L	ND	50	50	39.7	42.4	1	1	79	85	34-116	7	20	06/10/11	06/10/11		
Bromomethane	ug/L	ND	50	50	44.6	44.3	1	1	89	89	10-200	0.8	20	06/10/11	06/10/11		
Carbon disulfide	ug/L	ND	100	100	106	97.5	1	1	106	97	43-144	8	20	06/10/11	06/10/11		
Carbon tetrachloride	ug/L	ND	50	50	47.9	46.0	1	1	96	92	26-136	4	20	06/10/11	06/10/11		
Chlorobenzene	ug/L	ND	50	50	43.6	43.1	1	1	87	86	33-136	1	20	06/10/11	06/10/11		
Chloroethane	ug/L	ND	50	50	50.5	48.4	1	1	101	97	21-200	4	20	06/10/11	06/10/11		
Chloroform	ug/L	ND	50	50	44.3	42.5	1	1	89	85	50-134	4	20	06/10/11	06/10/11		
Chloromethane	ug/L	ND	50	50	49.6	46.8	1	1	99	94	32-160	6	20	06/10/11	06/10/11		
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.3	46.1	1	1	99	92	48-145	7	20	06/10/11	06/10/11		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

MATRIX SPIKE SAMPLE RESULTS

Project: E027029/Allison Transmission
Pace Project No.: 5049277

QB Batch: MSV/33200
Method(s): EPA 8260

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc MS	Spike Conc MSD	Result MS	Result MSD	Dilution MS	Dilution MSD	% Recovery MS	% Recovery MSD	QC Limits %Recovery	RPD	Max RPD	Analyzed Date MS	Analyzed Date MSD	Qualifier(s) MS	Qualifier(s) MSD
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.2	45.7	1	1	90	91	35-116	1	20	06/10/11	06/10/11		
Cyclohexane	ug/L	ND	50	50	ND	ND	1	1	90	89	48-133		20	06/10/11	06/10/11	N2	N2
Dibromochloromethane	ug/L	ND	50	50	43.6	41.6	1	1	87	83	39-122	5	20	06/10/11	06/10/11		
Dichlorodifluoromethane	ug/L	ND	50	50	56.4	53.3	1	1	113	107	35-200	6	20	06/10/11	06/10/11		
Ethylbenzene	ug/L	ND	50	50	48.7	47.9	1	1	97	96	29-132	2	20	06/10/11	06/10/11		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	45.3	44.2	1	1	91	88	11-146	3	20	06/10/11	06/10/11		
Methyl acetate	ug/L	ND	50	50	56.0	51.8	1	1	112	104	21-200	8	20	06/10/11	06/10/11	N2	N2
Methyl-tert-butyl ether	ug/L	ND	100	100	88.5	81.9	1	1	88	82	39-137	8	20	06/10/11	06/10/11		
Methylcyclohexane	ug/L	ND	50	50	46.3J	45.8J	1	1	93	92	45-129		20	06/10/11	06/10/11	N2	N2
Methylene chloride	ug/L	ND	50	50	47.1	44.2	1	1	94	88	47-141	6	20	06/10/11	06/10/11		
Styrene	ug/L	ND	50	50	46.0	40.1	1	1	92	80	20-143	14	20	06/10/11	06/10/11		
Tetrachloroethene	ug/L	ND	50	50	45.0	45.6	1	1	90	91	30-124	1	20	06/10/11	06/10/11		
Toluene	ug/L	ND	50	50	47.1	45.7	1	1	94	91	42-130	3	20	06/10/11	06/10/11		
trans-1,2-Dichloroethene	ug/L	ND	50	50	49.4	45.3	1	1	99	91	48-144	9	20	06/10/11	06/10/11		
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.6	39.7	1	1	85	79	24-114	7	20	06/10/11	06/10/11		
Trichloroethene	ug/L	ND	50	50	46.1	44.7	1	1	92	89	44-130	3	20	06/10/11	06/10/11		
Trichlorofluoromethane	ug/L	ND	50	50	52.5	50.1	1	1	105	100	17-200	5	20	06/10/11	06/10/11		
Vinyl chloride	ug/L	ND	50	50	50.3	49.8	1	1	101	100	45-159	0.9	20	06/10/11	06/10/11		
Xylene (Total)	ug/L	ND	150	150	144	138	1	1	96	92	29-131	5	20	06/10/11	06/10/11		

Type	Sample	Client Sample ID
MS	584131	MW-1003-S3(060211)
MSD	584132	MW-1003-S3(060211)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV5.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]:
ISTD lot:
Tune std: _____

Method:

Surr. lot:
Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/b00bfb.d	bfb050 34D-349	L/	BFB	1	-bfb	6/02/11	14:09	heb	
1/b01.d	1ppb 34D-366/367	L/	CALIB_1	1	-b8260_a_b	6/02/11	14:46	heb	Curve put on due to
1/b02.d	2ppb	L/	CALIB_2	1	-b8260_a_b	6/02/11	15:23	heb	trap change + prev QC
1/b03.d	5ppb	L/	CALIB_3	1	-b8260_a_b	6/02/11	15:59	heb	failure
1/b04.d	10ppb	L/	CALIB_4	1	-b8260_a_b	6/02/11	16:36	heb	
1/b05.d	20ppb	L/	CALIB_5	1	-b8260_a_b	6/02/11	17:13	heb	
1/b06.d	50ppb	L/	CALIB_6	1	-b8260_a_b	6/02/11	17:50	heb	
1/b07.d	150ppb	L/	CALIB_7	1	-b8260_a_b	6/02/11	18:27	heb	
1/b08.d	300ppb	L/	CALIB_8	1	-b8260_a_b	6/02/11	19:04	heb	
1/b09mb.d	blk	L/	SAMPLE	1	-b8260_a_b	6/02/11	19:41	heb	
1/b10icv.d	icv 34D-365	L/	ICV	1	-b8260_a_b	6/02/11	20:18	heb	
1/b11ccv.d	ccv 34D-366/367	L/	CCALIB_6	1	-b8260_a_b	6/02/11	20:55	heb	
1/b12lcs.d	lcs 34D-365	L/	LCS	1	-b8260_a_b	6/02/11	21:32	heb	
1/b13mb.d	mb	L/	BLANK	1	-b8260_a_b	6/02/11	22:09	heb	
1/b14.d TC	5049084024 full	S/	SAMPLE	50	-b8260_a_b	6/02/11	22:46	ala	↓ surr - Not used
1/b15.d	r5049084024	S/	SAMPLE	500	-b8260_a_b	6/02/11	23:22	ala	use this run
1/b16.d H_2O	5048989002	L/	SAMPLE	1	-b8260_a_b	6/02/11	23:59	ala	
1/b17.d	r5048989002	L/	SAMPLE	50	-b8260_a_b	6/03/11	00:36	ala	
1/b18.d	5048989013	L/	SAMPLE	1	-b8260_a_b	6/03/11	01:13	ala	
1/b19.d	r5048989013	L/	SAMPLE	50	-b8260_a_b	6/03/11	01:50	ala	
1/d00bfb.d	bfb050 34D-349	L/	BFB	1	-bfb	6/03/11	02:27	ala	
1/d01ccv.d	ccv	L/	CCALIB_6	1	-b8260_a_b	6/03/11	03:03	ala	CCV TVC - Not used - prep error
1/d02ccv.d	ccv	L/	CCALIB_6	1	-b8260_a_b	6/03/11	03:40	ala	using LCS as opening QC.
1/d02lcs.d	lcs	L/	LCS	1	-b8260_a_b	6/03/11	03:40	ala	
1/d03mb.d	mb	L/	BLANK	1	-b8260_a_b	6/03/11	04:17	ala	
1/d04.d soil	5049062001 full	S/	SAMPLE	1	-b8260_a_b	6/03/11	04:53	ala	
1/d05.d	5049062002	S/	SAMPLE	1	-b8260_a_b	6/03/11	05:30	ala	
1/d06.d	5049062003	S/	SAMPLE	1	-b8260_a_b	6/03/11	06:06	ala	
1/d07.d	5049062004	S/	SAMPLE	1	-b8260_a_b	6/03/11	06:43	ala	
1/d08.d	5049062005	S/	SAMPLE	1	-b8260_a_b	6/03/11	07:19	ala	
1/d09.d	5049062006	S/	SAMPLE	1	-b8260_a_b	6/03/11	07:56	ala	
1/d10.d	ms006	L/	MS	1	-b8260_a_b	6/03/11	08:34	ala	
1/d11.d	msd006	L/	MSD	1	-b8260_a_b	6/03/11	09:10	ala	

File Path 1: \\50wintarget\chem\50MSV5.i\b060211.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 16:07 06/03/2011

Page: 1

All water samples have a pH below 2 unless otherwise noted

AA
6.3.11

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV5.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]:
ISTD lot:
Tune std: _____

Method:

Surr. lot:
Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/b00bfb.d	bfb050 34D-224	L/	BFB	1	-bfb	6/09/11	15:17	rsw	
1/b01ccv.d	ccv 34D-366/397	L/	CCALIB_6	1	-b8260_a_b	6/09/11	15:54	rsw	↑VC
1/b02ccv.d	ccv 34D-365	L/	CCALIB_6	1	-b8260_a_b	6/09/11	16:32	rsw	LCS used as CCV
1/b02lcs.d	lcs	L/	LCS	1	-b8260_a_b	6/09/11	16:32	rsw	
1/b03mb.d	mb	L/	BLANK	1	-b8260_a_b	6/09/11	17:09	rsw	
1/b04.d	5049275001	L/33159	SAMPLE	1	-b8260_a_b	6/09/11	17:47	rsw	
1/b05.d	5049275003	L/33159	SAMPLE	1	-b8260_a_b	6/09/11	18:25	rsw	
1/b06.d	5049193001	S/33160	SAMPLE	1	-b8260_a_b	6/09/11	19:02	rsw	
1/b07.d	5049193002	S/33160	SAMPLE	1	-b8260_a_b	6/09/11	19:40	rsw	
1/b08.d	5049277001	L/33161	SAMPLE	1	-b8260_a_b	6/09/11	20:18	rsw	
1/b09.d	5049364001	L/33161	SAMPLE	1	-b8260_a_b	6/09/11	20:56	rsw	
1/b10.d	5049364002	L/33161	SAMPLE	1	-b8260_a_b	6/09/11	21:34	rsw	
1/b11.d	5049364003	L/33161	SAMPLE	1	-b8260_a_b	6/09/11	22:12	rsw	
1/b12.d	5049364004	L/33161	SAMPLE	1	-b8260_a_b	6/09/11	22:49	rsw	
1/b13.d	5049364005	L/33161	SAMPLE	1	-b8260_a_b	6/09/11	23:27	rsw	
1/b14.d	5049364006	L/33161	SAMPLE	1	-b8260_a_b	6/10/11	00:04	rsw	
1/b15.d	5049364007	L/33161	SAMPLE	1	-b8260_a_b	6/10/11	00:41	rsw	
1/b16.d	5049360001	L/33161	SAMPLE	1	-b8260_a_b	6/10/11	01:19	rsw	
1/b17.d	5049360002	L/33161	SAMPLE	1	-b8260_a_b	6/10/11	01:56	rsw	
1/b18.d	5049215015	L/33161	SAMPLE	1	-b8260_a_b	6/10/11	02:33	rsw	
1/b19.d	5049215016	L/33161	SAMPLE	1	-b8260_a_b	6/10/11	03:10	rsw	
1/d00bfb.d	bfb050 34D-224	L/	BFB	1	-bfb	6/10/11	03:48	rsw	
1/d01ccv.d	ccv	L/	CCALIB_6	1	-b8260_a_b	6/10/11	04:25	rsw	QC passes still
1/d02lcs.d	lcs	L/	LCS	1	-b8260_a_b	6/10/11	05:02	rsw	
1/d03mb.d	mb	L/	BLANK	1	-b8260_a_b	6/10/11	05:39	rsw	
1/d04.d	5049277002	L/	SAMPLE	25	-b8260_a_b	6/10/11	06:16	rsw	NB Overdiluted
1/d05.d	ms5049277002	L/	MS	25	-b8260_a_b	6/10/11	06:53	rsw	
1/d06.d	msd5049277002	L/	MSD	25	-b8260_a_b	6/10/11	07:30	rsw	
1/d07.d	5049277003	L/	SAMPLE	25	-b8260_a_b	6/10/11	08:08	rsw	
1/d08.d	5049277004	L/	SAMPLE	1	-b8260_a_b	6/10/11	08:45	rsw	
1/d09.d	5049277005	L/	SAMPLE	1	-b8260_a_b	6/10/11	09:22	rsw	
1/d10.d	5049277006	L/	SAMPLE	25	-b8260_a_b	6/10/11	09:59	rsw	NB overdiluted
1/d11.d	5049277007	L/	SAMPLE	25	-b8260_a_b	6/10/11	10:36	rsw	

File Path 1: \\50wintarget\chem\50MSV5.i\b060911.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 15:41 06/10/2011

All water samples have a pH below 2 unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV1.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]:
ISTD lot: Surr. lot:
Tune std: _____ Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/a00bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/10/11	12:58	rsw	Curved due to ↑ LCS ↑
1/a01.d	1ppb 34D-407/394	L/	CALIB_1	1	-a8260_a_b	6/10/11	13:32	rsw	MTBE - Several QC
1/a02.d	2ppb	L/	CALIB_2	1	-a8260_a_b	6/10/11	14:10	rsw	failures overpost complete
1/a03.d	5ppb	L/	CALIB_3	1	-a8260_a_b	6/10/11	14:46	rsw	of days - LCSs have
1/a04.d	10ppb	L/	CALIB_4	1	-a8260_a_b	6/10/11	15:19	rsw	been too ↑
1/a05.d	20ppb	L/	CALIB_5	1	-a8260_a_b	6/10/11	15:55	rsw	
1/a06.d	50ppb	L/	CALIB_6	1	-a8260_a_b	6/10/11	16:33	rsw	
1/a07.d	150ppb	L/	CALIB_7	1	-a8260_a_b	6/10/11	17:10	rsw	
1/a08.d	300ppb	L/	CALIB_8	1	-a8260_a_b	6/10/11	17:43	rsw	
1/a09icv.d	icv 34D-379	L/	ICV	1	-a8260_a_b	6/10/11	18:20	rsw	Curve passes full
1/a10mb.d	mb MeOH DD471	L/	BLANK	1	-a8260_a_b	6/10/11	18:55	rsw	
1/c00bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/10/11	19:28	rsw	not used due to tune time
1/c01ccv.d	ccv	L/	CCALIB_6	1	-a8260_a_b	6/10/11	20:05	rsw	CCV used as BFB
1/c02lcs.d	lcs	L/	LCS	1	-a8260_a_b	6/10/11	20:40	rsw	QC passes full
1/c03mb.d	mb	L/	BLANK	1	-a8260_a_b	6/10/11	21:14	rsw	
1/c04.d	5049399001 USTW	L/	SAMPLE	500	-a8260_a_b	6/10/11	21:49	rsw	33111
1/c05.d	5049399005	L/	SAMPLE	500	-a8260_a_b	6/10/11	22:23	rsw	33108
1/c06.d	5049399008	L/	SAMPLE	500	-a8260_a_b	6/10/11	22:56	rsw	33108
1/c07.d	5049245007 SOIL	S/ MSV 33197	SAMPLE	1	-a8260_a_b	6/10/11	23:30	rsw	
1/c08.d	5049270001 TC	S/	SAMPLE	1	-a8260_a_b	6/11/11	00:08	rsw	
1/c09.d	5049270002	S/	SAMPLE	1	-a8260_a_b	6/11/11	00:42	rsw	
1/c10.d	5049491001	S/ MSV 33198	SAMPLE	1	-a8260_a_b	6/11/11	01:16	rsw	
1/c11.d	5049491002	S/	SAMPLE	1	-a8260_a_b	6/11/11	02:34	rsw	
1/c12.d	5049491003	S/	SAMPLE	1	-a8260_a_b	6/11/11	03:08	rsw	
1/c13.d	5049270003 W	L/ MSV 33199	SAMPLE	1	-a8260_a_b	6/11/11	03:43	rsw	
1/c14.d	5049254004 TC	S/	SAMPLE	5000	-a8260_a_b	6/11/11	04:17	rsw	33155
1/c15.d	5049254006	S/	SAMPLE	5000	-a8260_a_b	6/11/11	04:53	rsw	33155
1/c16.d	5049254009	S/	SAMPLE	50	-a8260_a_b	6/11/11	05:27	rsw	
1/c17.d	5049254009	S/	SAMPLE	500	-a8260_a_b	6/11/11	06:01	rsw	
1/c18.d	5049254010	S/ MSV 33198	SAMPLE	50	-a8260_a_b	6/11/11	06:34	rsw	
1/c19.d	5049254010	S/	SAMPLE	500	-a8260_a_b	6/11/11	07:07	rsw	
1/c20.d	5049277003 W	L/ MSV 33199	SAMPLE	1	-a8260_a_b	6/11/11	07:43	rsw	

File Path 1: \\50wintarget\chem\50MSV1.i\a061011.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:18 06/11/2011

Page: 1

All water samples have a pH below 2 unless otherwise noted RSW 6/11/11

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV1.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:
Surr. lot:
Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/b00bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/10/11	13:15	rsw	curved after repeatedly ↑
1/b01.d	1ppb 34D-407/394	L/	CALIB_1	1	-b8260_a_b	6/10/11	13:53	rsw	MTBE in QC and ↑ less
1/b02.d	2ppb	L/	CALIB_2	1	-b8260_a_b	6/10/11	14:29	rsw	
1/b03.d	5ppb	L/	CALIB_3	1	-b8260_a_b	6/10/11	15:02	rsw	
1/b04.d	10ppb	L/	CALIB_4	1	-b8260_a_b	6/10/11	15:38	rsw	
1/b05.d	20ppb	L/	CALIB_5	1	-b8260_a_b	6/10/11	16:16	rsw	
1/b06.d	50ppb	L/	CALIB_6	1	-b8260_a_b	6/10/11	16:53	rsw	
1/b07.d	150ppb	L/	CALIB_7	1	-b8260_a_b	6/10/11	17:26	rsw	
1/b08.d	300ppb	L/	CALIB_8	1	-b8260_a_b	6/10/11	18:03	rsw	
1/b09icv.d	icv 34D-379	L/	ICV	1	-b8260_a_b	6/10/11	18:37	rsw	curve passes full
1/b10mb.d	mb MeOH DD471	L/	BLANK	1	-b8260_a_b	6/10/11	19:12	rsw	
1/d00bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/10/11	19:48	rsw	BFB out of tune time
1/d01ccv.d	ccv	L/	CCALIB_6	1	-b8260_a_b	6/10/11	20:23	rsw	ccv used as BFB
1/d02lcs.d	lcs	L/	LCS	1	-b8260_a_b	6/10/11	20:57	rsw	QC passes full
1/d03mb.d	mb	L/	BLANK	1	-b8260_a_b	6/10/11	21:31	rsw	
1/d04.d	5049277002 W	L/	SAMPLE	1	-b8260_a_b	6/10/11	22:06	rsw	
1/d05.d	ms5049277002	L/	MS	1	-b8260_a_b	6/10/11	22:39	rsw	
1/d06.d	msd5049277002	L/	MSD	1	-b8260_a_b	6/10/11	23:13	rsw	
1/d07.d	5049277006	L/ MSV 33200	SAMPLE	1	-b8260_a_b	6/10/11	23:50	rsw	
1/d08.d	5049277007	L/	SAMPLE	1	-b8260_a_b	6/11/11	00:25	rsw	
1/d09.d	5049277008	L/	SAMPLE	1	-b8260_a_b	6/11/11	00:58	rsw	
1/d10.d	5049400001 USTW	L/	SAMPLE	1	-b8260_a_b	6/11/11	01:33	rsw	
1/d11.d	5049400002	L/	SAMPLE	1	-b8260_a_b	6/11/11	02:51	rsw	
1/d12.d	ms5049400002	L/	MS	1	-b8260_a_b	6/11/11	03:26	rsw	
1/d13.d	msd5049400002	L/	MSD	1	-b8260_a_b	6/11/11	04:00	rsw	
1/d14.d	5049289001	L/ MSV 33201	SAMPLE	1	-b8260_a_b	6/11/11	04:36	rsw	
1/d15.d	5049289002	L/	SAMPLE	1	-b8260_a_b	6/11/11	05:10	rsw	
1/d16.d	5049289003	L/	SAMPLE	1	-b8260_a_b	6/11/11	05:44	rsw	
1/d17.d	5049289004	L/	SAMPLE	1	-b8260_a_b	6/11/11	06:17	rsw	
1/d18.d	5049289004	L/	SAMPLE	10	-b8260_a_b	6/11/11	06:51	rsw	
1/d19.d	5049289005	L/	SAMPLE	1	-b8260_a_b	6/11/11	07:26	rsw	
1/d20.d	5049438002	L/	SAMPLE	1	-b8260_a_b	6/11/11	08:00	rsw	

B

D

File Path 1: \\50wintarget\chem\50MSV1.i\b061011.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 15:05 06/11/2011

Page: 1

All water samples have a pH below 2 unless otherwise noted

RSW 6/11/11

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Lab File ID (Standard): B02CCV Date Analyzed: 06/09/11

Instrument ID: 50MSV5 Time Analyzed: 1632

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(CBZ) AREA #	RT	IS2(DCB) AREA #	RT	IS3 AREA #	RT
	12 HOUR STD	146418	7.11	90460	8.62	161034	3.78
	UPPER LIMIT	292836	7.61	180920	9.12	322068	4.28
	LOWER LIMIT	73209	6.61	45230	8.12	80517	3.28
	EPA SAMPLE NO.						
01	LCS	146418	7.11	90460	8.62	161034	3.78
02	MB	148767	7.11	92860	8.62	153926	3.78
03	5049275001	163357	7.11	99165	8.62	176048	3.77
04	5049275003	162819	7.11	99288	8.63	173960	3.78
05	5049193001	159956	7.11	96899	8.62	178105	3.78
06	5049193002	31248*	7.11	15272*	8.62	30433*	3.77
07	5049277001	161730	7.11	97783	8.62	170612	3.78
08	5049364001	121954	7.11	74277	8.62	132740	3.77
09	5049364002	156390	7.10	98991	8.62	165466	3.77
10	5049364003	163939	7.11	105308	8.62	164673	3.78
11	5049364004	148843	7.11	88751	8.62	157814	3.77
12	5049364005	159790	7.11	95293	8.62	174161	3.77
13	5049364006	172337	7.11	103594	8.62	181794	3.77
14	5049364007	164099	7.11	100342	8.62	174588	3.77
15	5049360001	159678	7.11	97052	8.62	169908	3.78
16	5049360002	156456	7.11	93759	8.62	173944	3.77
17	5049215015	155506	7.11	95757	8.62	167547	3.77
18	5049215016	144629	7.11	88045	8.62	153371	3.77
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Lab File ID (Standard): D01CCV Date Analyzed: 06/10/11

Instrument ID: 50MSV5 Time Analyzed: 0425

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 (CBZ) AREA #	RT	IS2 (DCB) AREA #	RT	IS3 AREA #	RT
	12 HOUR STD	166975	7.11	101237	8.62	174975	3.77
	UPPER LIMIT	333950	7.61	202474	9.12	349950	4.27
	LOWER LIMIT	83488	6.61	50619	8.12	87488	3.27
	EPA SAMPLE NO.						
01	LCS	168144	7.11	102088	8.63	178461	3.77
02	MB	123962	7.11	73698	8.63	130302	3.77
03	5049277002	140283	7.11	84142	8.63	150616	3.78
04	MS5049277002	143000	7.11	87070	8.62	153563	3.78
05	MSD504927700	160083	7.11	96483	8.62	173790	3.78
06	5049277003	167554	7.11	100135	8.62	183509	3.78
07	5049277004	155716	7.10	92718	8.62	170433	3.77
08	5049277005	141826	7.10	82713	8.62	156433	3.77
09	5049277006	120459	7.10	72748	8.62	130491	3.77
10	5049277007	158878	7.11	94024	8.62	170114	3.77
11	5049277008	130561	7.11	78484	8.62	134115	3.77
12	5049363005	135119	7.11	81564	8.62	143076	3.77
13	5049363005	114026	7.11	73906	8.62	129989	3.77
14	5049363006	125093	7.11	78232	8.63	132470	3.77
15	5049363006	132248	7.11	79461	8.63	138144	3.78
16	5049363007	127147	7.11	77659	8.62	131321	3.77
17	5049363007	132140	7.11	72811	8.63	139389	3.77
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061011.B

Lab File ID (Standard): C01CCV Date Analyzed: 06/10/11

Instrument ID: 50MSV1 Time Analyzed: 2005

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1 (CBZ) AREA #	RT	IS2 (DCB) AREA #	RT	IS3 AREA #	RT
	12 HOUR STD	63871	7.30	31277	8.79	72523	4.12
	UPPER LIMIT	127742	7.80	62554	9.29	145046	4.62
	LOWER LIMIT	31936	6.80	15639	8.29	36262	3.62
	EPA SAMPLE NO.						
01	LCS	57830	7.30	28813	8.79	63910	4.12
02	MB	62019	7.30	33570	8.80	74634	4.12
03	5049399001	64183	7.30	35353	8.79	76117	4.12
04	5049399005	64889	7.30	34758	8.80	74827	4.12
05	5049399008	65181	7.30	33775	8.80	72925	4.13
06	5049245007	66793	7.30	37049	8.80	79384	4.12
07	5049270001	71419	7.30	36815	8.80	79515	4.12
08	5049270002	66182	7.30	36260	8.80	77922	4.12
09	5049491001	57638	7.30	22092	8.79	75830	4.12
10	5049491002	78016	7.29	36724	8.79	95828	4.11
11	5049491003	74367	7.30	36897	8.80	92150	4.12
12	5049270003	77262	7.30	39584	8.80	90851	4.12
13	5049254004	74917	7.30	38568	8.80	82338	4.13
14	5049254006	73606	7.30	38650	8.79	81128	4.12
15	5049254009	68984	7.30	37460	8.80	73227	4.12
16	5049254009	60369	7.30	31400	8.79	66275	4.12
17	5049254010	66744	7.30	36543	8.79	64956	4.12
18	5049254010	71574	7.30	38150	8.80	77337	4.12
19	5049277003	73417	7.30	38755	8.80	88285	4.12
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B061011.B

Lab File ID (Standard): D01CCV Date Analyzed: 06/10/11

Instrument ID: 50MSV1 Time Analyzed: 2023

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(CBZ) AREA #	RT	IS2(DCB) AREA #	RT	IS3 AREA #	RT
	12 HOUR STD	58912	7.30	28356	8.79	67274	4.12
	UPPER LIMIT	117824	7.80	56712	9.29	134548	4.62
	LOWER LIMIT	29456	6.80	14178	8.29	33637	3.62
	EPA SAMPLE NO.						
01	LCS	62498	7.30	30196	8.79	71400	4.12
02	MB	68143	7.30	37652	8.79	79826	4.12
03	5049277002	66186	7.30	36706	8.80	73903	4.12
04	MS5049277002	56649	7.30	27791	8.79	64256	4.12
05	MSD504927700	62156	7.30	28740	8.79	69877	4.12
06	5049277006	68641	7.30	36319	8.79	83334	4.12
07	5049277007	69376	7.30	35119	8.80	80962	4.12
08	5049277008	66522	7.30	35498	8.80	78830	4.12
09	5049400001	72181	7.30	35718	8.79	80784	4.12
10	5049400002	81814	7.29	40663	8.79	94096	4.11
11	MS5049400002	80006	7.30	39122	8.79	91995	4.12
12	MSD504940000	76887	7.30	36774	8.79	85065	4.12
13	5049289001	72977	7.30	37160	8.79	88586	4.11
14	5049289002	72683	7.30	38648	8.80	90334	4.12
15	5049289003	83761	7.30	40653	8.79	92185	4.12
16	5049289004	70970	7.30	36621	8.80	83190	4.12
17	5049289004	70962	7.30	37385	8.79	86817	4.12
18	5049289005	70733	7.30	38345	8.80	85604	4.11
19	5049438002	77946	7.30	38958	8.79	91331	4.12
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

FORM VIII VOA 1/87 Rev.

Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 2: Initial Calibration Data

**** Initial Calibration Summary Table***
**** BFB Tune Information***
**** Initial Calibration Standards***
**** ICV Standard***

Initial Calibrations included:
(Instrument name and calibration date)

ICAL 1: 50MSV5 C-2 6/2/11

ICAL 2: 50MSV1 C-1 6/10/11

ICAL 3: 50MSV1 C-2 6/10/11

ICAL 4: _____

Report Date : 03-Jun-2011 16:13

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Calibration File Names:
Level 1: \\50wintarget\chem\50MSV5.i\b060211.b\b01cal.d
Level 2: \\50wintarget\chem\50MSV5.i\b060211.b\b02cal.d
Level 3: \\50wintarget\chem\50MSV5.i\b060211.b\b03cal.d
Level 4: \\50wintarget\chem\50MSV5.i\b060211.b\b04cal.d
Level 5: \\50wintarget\chem\50MSV5.i\b060211.b\b05cal.d
Level 6: \\50wintarget\chem\50MSV5.i\b060211.b\b06cal.d
Level 7: \\50wintarget\chem\50MSV5.i\b060211.b\b07cal.d
Level 8: \\50wintarget\chem\50MSV5.i\b060211.b\b08cal.d

Compound	1.0000 Level 1	2.0000 Level 2	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
1 Dichlorodifluoromethane	0.29753	0.37811	0.37186	0.37247	0.43334	0.40612					
	0.36900	0.33737					AVRG		0.37072		11.03021
2 Chloromethane	0.38423	0.37512	0.39925	0.33648	0.37661	0.35644					
SPCC	0.34547	+++++					AVRG		0.36766		6.08097
3 Vinyl Chloride	0.19371	0.25682	0.25499	0.24634	0.29147	0.28541					
CCC	0.25586	0.23798					AVRG		0.25282		11.90527

Linear to 150

AA 6-3-11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
4 Bromomethane	256	1028	2364	6334	15070	40868						Linear to 150
	120457	+++++					LINR	0.00120	0.17964		0.99778	
139 Methyl Acetate	0.05659	0.07249	0.07758	0.07046	0.07345	0.07498						
	0.06658	0.05683					AVRG		0.06862		11.69288	
5 Chloroethane	0.13507	0.13995	0.15202	0.14174	0.16599	0.15666						Linear to 150
	0.13755	+++++					AVRG		0.14700		7.79768	
6 Trichlorofluoromethane	0.38492	0.44772	0.46728	0.46689	0.56166	0.54394						
	0.49852	0.44510					AVRG		0.47700		11.92810	
7 Diethyl ether	97.00000	493	1623	3556	7431	19994						Linear to 150
	60174	+++++					LINR	-0.00461	0.08928		0.99868	
8 Acrolein	913	2111	5728	12088	25900	67154						Linear to 3000
	206943	+++++					LINR	-0.12633	0.01530		0.99928	
9 1,1-Dichloroethene	+++++	0.19462	0.23249	0.21794	0.24925	0.24999						
CCC	0.23663	0.21131					AVRG		0.22746		9.01348	

AA
6.3.11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
10 1,1,2trichlorotrifluoroethane	+++++	0.24186	0.27356	0.26156	0.29903	0.29186						
	0.27503	0.23808					AVRG		0.26871		8.63277	
11 Acetone	1565	2029	3846	6961	13169	31886						
	94313	+++++					LINR	-0.27057	0.02751		0.99889	Linear to 750
12 Iodomethane	+++++	1549	7993	24269	67946	193597						
	582108	+++++					LINR	0.05041	0.43709		0.99777	Linear to 300
13 Carbon Disulfide	3883	11901	29281	59905	133141	331116						
	1007507	+++++					LINR	-0.02785	0.74416		0.99895	Linear to 300
142 Acetonitrile	0.33905	0.46220	0.50264	0.46924	0.52148	0.50483						
	0.43781	+++++					AVRG		0.46247		13.32247	Linear to 150
14 allyl chloride	0.24722	0.30353	0.33918	0.31710	0.35088	0.33810						
	0.29283	0.23588					AVRG		0.30309		14.08210	
15 Methylene Chloride	2601	3453	6105	11100	20906	49746						
	144522	277944					LINR	-0.13761	0.18453		0.99360	

AA
6.3.11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
16 Acrylonitrile	0.03500	0.03471	0.03967	0.03719	0.03785	0.04005					
	0.03532	0.02585					AVRG		0.03571		12.52853
17 tert-Butyl Alcohol	+++++	+++++	102	530	1385	3581					
	9333	+++++					LINR	-0.08449	0.00698		0.98839
18 1,2-Dichloroethene (trans)	+++++	0.22069	0.24702	0.24304	0.26835	0.26722					
	0.24374	0.20568					AVRG		0.24225		9.43209
19 Methyl-tert-butyl ether	2617	5473	15661	33145	70902	188931					
	579929	+++++					LINR	-0.00676	0.42933		0.99918
20 n-Hexane	+++++	0.26459	0.30981	0.29358	0.34072	0.35749					
	0.34864	0.31068					AVRG		0.31793		10.41972
21 1,1-Dichloroethane	+++++	0.41268	0.45947	0.43992	0.51871	0.47787					
SPCC	0.45076	0.38394					AVRG		0.44905		9.72418
23 Vinyl Acetate	2930	5839	16174	37508	92610	230105					
	724151	+++++					LINR	0.01642	0.26832		0.99936

Linear to 300 %RSD = 14.99

Linear to 600

AA 6.3.11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
143 Chloroprene	+++++	0.32260	0.39432	0.40175	0.48600	0.45710						
	0.43665	0.37695					AVRG		0.41077		13.23913	
24 2,2-Dichloropropane	+++++	0.29725	0.33703	0.32433	0.39604	0.37664						
	0.37144	0.32824					AVRG		0.34728		10.05861	
25 1,2-Dichloroethene (cis)	+++++	0.23361	0.24943	0.24915	0.28135	0.26824						
	0.25099	0.20999					AVRG		0.24897		9.24622	
26 2-Butanone	0.03815	0.04069	0.04304	0.04554	0.05374	0.04946						linear to 750
	0.04457	+++++					AVRG		0.04503		11.68547	
27 Propionitrile	+++++	+++++	+++++	95.00000	952	3143						
	10578	+++++					LINR	0.12316	0.01634		0.99870	NTC
144 Methacrylonitrile	+++++	+++++	0.01054	0.01442	0.01503	0.01417						linear to 750
	0.01154	+++++					AVRG		0.01314		15.01205	
28 1,2-dichlorotrifluoroethane	+++++	0.25442	0.27639	0.27622	0.29793	0.30010						AA
	0.28462	0.25587					AVRG		0.27794		6.53770	6.3.11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
29 Bromochloromethane	+++++	886	3091	6638	16190	34947						Linear to 150
	102021	+++++					LINR	-0.04629	0.14994		0.99652	
30 Tetrahydrofuran	731	900	1231	1783	3319	6837						Linear to 150
	17131	+++++					LINR	-0.18719	0.02436		0.99215	
31 Chloroform	+++++	0.43624	0.51003	0.47252	0.53991	0.51302						
CCC	0.47996	0.38705					AVRG		0.47696		10.86987	
33 1,1,1-Trichloroethane	+++++	0.33732	0.42836	0.39988	0.47347	0.45415						
	0.44696	0.39772					AVRG		0.41969		10.90109	
35 Carbon Tetrachloride	118	2080	6356	13228	33974	84283						
	281812	564992					LINR	-0.02615	0.37816		0.99669	
36 1,1-Dichloropropene	+++++	0.29186	0.34962	0.33541	0.40878	0.39282						
	0.37239	0.32933					AVRG		0.35432		11.33584	
37 Isobutyl alcohol	+++++	1041	3666	7175	15079	34154						Linear to 150
	130207	+++++					LINR	0.03096	0.19186		0.99801	

AA
6.3.11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
140 Cyclohexane	+++++	0.35059	0.39605	0.37198	0.46306	0.42433					
	0.39659	0.35852					AVRG		0.39445		9.99491
38 Benzene	0.69545	0.83648	0.93472	0.86648	1.00163	0.94084					
	0.90888	0.82148					AVRG		0.87574		10.72405
39 1,2-Dichloroethane	0.26011	0.28134	0.32560	0.34077	0.35971	0.33849					
	0.30926	0.23226					AVRG		0.30594		14.45775
138 2,2,4-Trimethylpentane	+++++	0.73492	1.04331	0.98156	1.01872	0.95778					
	1.05505	0.79878					AVRG		0.94145		13.30460
141 Methylcyclohexane	+++++	0.33158	0.38367	0.37722	0.41820	0.45626					
	0.44503	0.40470					AVRG		0.40238		10.62895
41 Trichloroethene	+++++	0.23564	0.28227	0.27380	0.29881	0.31906					
	0.31856	0.29200					AVRG		0.28859		10.00767
42 1,2-Dichloropropane	+++++	0.21148	0.25893	0.26209	0.26129	0.30048					
CCC	0.29433	0.26084					AVRG		0.26421		10.98637

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
43 Dibromomethane	+++++	833	2526	6033	11926	32431						Linear to 150
	101316	+++++					LINR	0.00074	0.14992		0.99945	
44 Methyl methacrylate	+++++	+++++	1138	3025	7478	21470						
	76234	145344					LINR	-0.02552	0.09852		0.99196	
45 Bromodichloromethane	679	1986	5545	12796	27276	77836						
	266015	503391					LINR	-0.03289	0.34182		0.99249	
46 2-Chloroethyl vinyl ether	+++++	567	2542	6301	15692	48158						
	174402	343909					LINR	0.04856	0.14232		0.99674	
145 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	0.00114	0.00161					AVRG		0.00137		24.09559	<- NTC
47 cis-1,3-Dichloropropene	683	1627	5407	12898	28031	85377						
	304968	597160					LINR	0.00913	0.49368		0.99664	
48 4-Methyl-2-Pentanone	2042	4504	11823	27918	61409	171091						Linear to 750
	549391	+++++					LINR	0.09099	0.19551		0.99937	

AA
6-3-11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
50 Toluene	+++++	13627	26481	51988	105224	274898					
CCC	863091	1710757					LINR	-0.06469	1.39157		0.99729
51 trans-1,3-Dichloropropene	384	1183	3727	9151	21989	69625					
	257419	518539					LINR	0.03478	0.42758		0.99787
52 Ethyl Methacrylate	225	936	2961	6823	17353	48610					
	163269	299849					LINR	-0.02930	0.25088		0.99175
53 1,1,2-Trichloroethane	+++++	0.15929	0.20151	0.20185	0.19246	0.23071					
	0.22462	0.19948					AVRG		0.20142		11.56554
54 Tetrachloroethene	0.31976	0.43105	0.44286	0.40926	0.42600	0.46421					
	0.45880	0.44960					AVRG		0.42519		10.87373
55 1,3-Dichloropropane	+++++	0.33437	0.40231	0.41460	0.40388	0.46913					
	0.46492	0.40898					AVRG		0.41403		10.90781
56 2-Hexanone	1266	2632	7739	18229	42698	118121					
	388307	+++++					LINR	0.13263	0.13831		0.99956

% RSD = 12.74

Linear to 750

AA
6.3.11

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
57 Dibromochloromethane	285	1045	3519	8225	16754	54476					
	196554	395495					LINR	0.02447	0.32563		0.99786
58 1,2-Dibromoethane	344	1076	3287	7540	15846	45100					
	153813	310758					LINR	-0.00046	0.25454		0.99826
60 Chlorobenzene	0.88375	0.99243	1.07027	1.00082	1.00837	1.10689					
SPCC	1.07734	0.99862					AVRG		1.01731		6.80944
61 1,1,1,2-Tetrachloroethane	580	1466	3908	8983	20175	59164					
	211782	441754					LINR	0.02830	0.36088		0.99919
62 Ethylbenzene	0.40723	0.50170	0.56077	0.52066	0.54589	0.60944					
CCC	0.58907	0.53979					AVRG		0.53432		11.60318
63 m&p-Xylene	0.57733	0.68103	0.72067	0.66934	0.68214	0.74594					
	0.71350	0.62147					AVRG		0.67643		8.11822
65 o-Xylene	0.47198	0.55992	0.62143	0.61825	0.63328	0.71774					
	0.69652	0.62320					AVRG		0.61779		12.40030

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
66 Styrene	+++++	0.87176	0.99547	1.01984	1.04428	1.17143						
	1.15495	1.03712					AVRG		1.04212		9.68936	
67 Bromoform	+++++	+++++	1624	3816	8553	28386						RF= 0.287
SPCC	109893	232537					LINR	0.06427	0.35493		0.99819	
68 Isopropylbenzene	+++++	1.34465	1.58188	1.54233	1.66584	1.90086						
	1.91081	1.65822					AVRG		1.65780		12.07218	
69 trans-1,4-Dichloro-2-butene	+++++	329	774	1873	5221	15462						Linear to 150
	55799	+++++					LINR	0.07095	0.10029		0.99913	
71 Bromobenzene	0.48731	0.55699	0.63197	0.58267	0.58595	0.66506						AA
	0.65770	0.60527					AVRG		0.59661		9.72522	
72 1,1,2,2-Tetrachloroethane	+++++	0.45110	0.53297	0.51154	0.51498	0.60742						63.11
SPCC	0.60395	0.51591					AVRG		0.53398		10.35653	
73 1,2,3-Trichloropropane	660	1431	3784	8450	19269	55114						
	197823	373910					LINR	-0.02329	0.57849		0.99189	

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1	2.0000 Level 2	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
74 n-Propylbenzene	+++++	3.42020	4.03568	3.83382	3.98686	4.38325					
	4.31296	3.70869					AVRG		3.95449		8.51574
75 2-Chlorotoluene	1.61356	2.15241	2.38099	2.25395	2.20095	2.42236					
	2.37978	2.08274					AVRG		2.18584		11.92682
76 4-Chlorotoluene	0.59081	0.70741	0.78323	0.77860	0.79012	0.90286					
	0.87635	0.77180					AVRG		0.77515		12.47284
77 1,3,5-Trimethylbenzene	+++++	2.33051	2.64438	2.52371	2.57052	2.95147					
	2.88655	2.49756					AVRG		2.62924		8.38233
78 tert-Butylbenzene	2816	7058	20951	45080	104506	289090					
	1016030	2057277					LINR	-0.00798	3.13205		0.99697
79 1,2,4-Trimethylbenzene	1.83446	2.38646	2.71806	2.59021	2.61413	2.91510					
	2.88187	2.57060					AVRG		2.56386		13.30901
80 sec-Butylbenzene	+++++	3.01977	3.47411	3.34855	3.49919	4.02609					
	4.14907	3.66176					AVRG		3.59693		10.84308

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1	2.0000 Level 2	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
81 1,3-Dichlorobenzene	1.24597	1.37587	1.49485	1.40435	1.42547	1.59443					
	1.53998	1.49049					AVRG		1.44643		7.49703
83 p-Isopropyltoluene	+++++	2.61201	2.93895	2.78855	2.88957	3.32127					
	3.23356	3.00983					AVRG		2.97054		8.27966
84 1,4-Dichlorobenzene	1.34859	1.53112	1.56260	1.42070	1.45409	1.62479					
	1.60429	1.48661					AVRG		1.50410		6.29235
85 1,2-Dichlorobenzene	1.09175	1.21154	1.35227	1.23532	1.27755	1.45201					
	1.53016	1.33029					AVRG		1.31011		10.59208
86 n-Butylbenzene	+++++	2.40814	2.77731	2.60101	2.75153	3.15078					
	3.28207	2.80931					AVRG		2.82574		10.68434
87 1,2-Dibromo-3-chloropropane	+++++	+++++	217	687	1745	5217					
	20590	42385					LINR	0.05384	0.06498		0.99699
88 1,2,4-Trichlorobenzene	0.75663	0.84743	0.81633	0.75700	0.82270	0.93671					
	1.06041	1.04893					AVRG		0.88077		13.77524

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
89 Hexachlorobutadiene	549	1845	4042	8344	18921	52534					
	209640	469720					LINR	0.05631	0.70604		0.99935
90 Naphthalene	1.36135	1.31465	1.27177	1.24577	1.37511	1.57051					
	1.73322	1.70637					AVRG		1.44734		13.46017
91 1,2,3-Trichlorobenzene	0.70619	0.77039	0.72527	0.66638	0.72817	0.79826					
	0.89233	0.90149					AVRG		0.77356		11.08955
92 2,methyl-naphthalene	1335	2511	4574	10830	30073	86939					
	368827	902185					LINR	0.11176	1.34844		0.99767
$ 32 Dibromofluoromethane (S)	0.25888	0.25665	0.26128	0.26137	0.29160	0.24966					
	0.23398	0.20554					AVRG		0.25237		9.81833
$ 49 Toluene-d8	1.30084	1.26734	1.27938	1.29351	1.25784	1.30403					
	1.25494	1.26745					AVRG		1.27817		1.50915
$ 70 4-Bromofluorobenzene	0.44895	0.45207	0.45609	0.46165	0.45118	0.45127					
	0.44305	0.42128					AVRG		0.44819		2.70371

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUN-2011 14:46
End Cal Date : 02-JUN-2011 19:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Last Edit : 03-Jun-2011 13:44 50MSV5.i

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b00bfb.d

Date : 02-JUN-2011 14:09

Client ID: bfb050

Instrument: 50MSV5.i

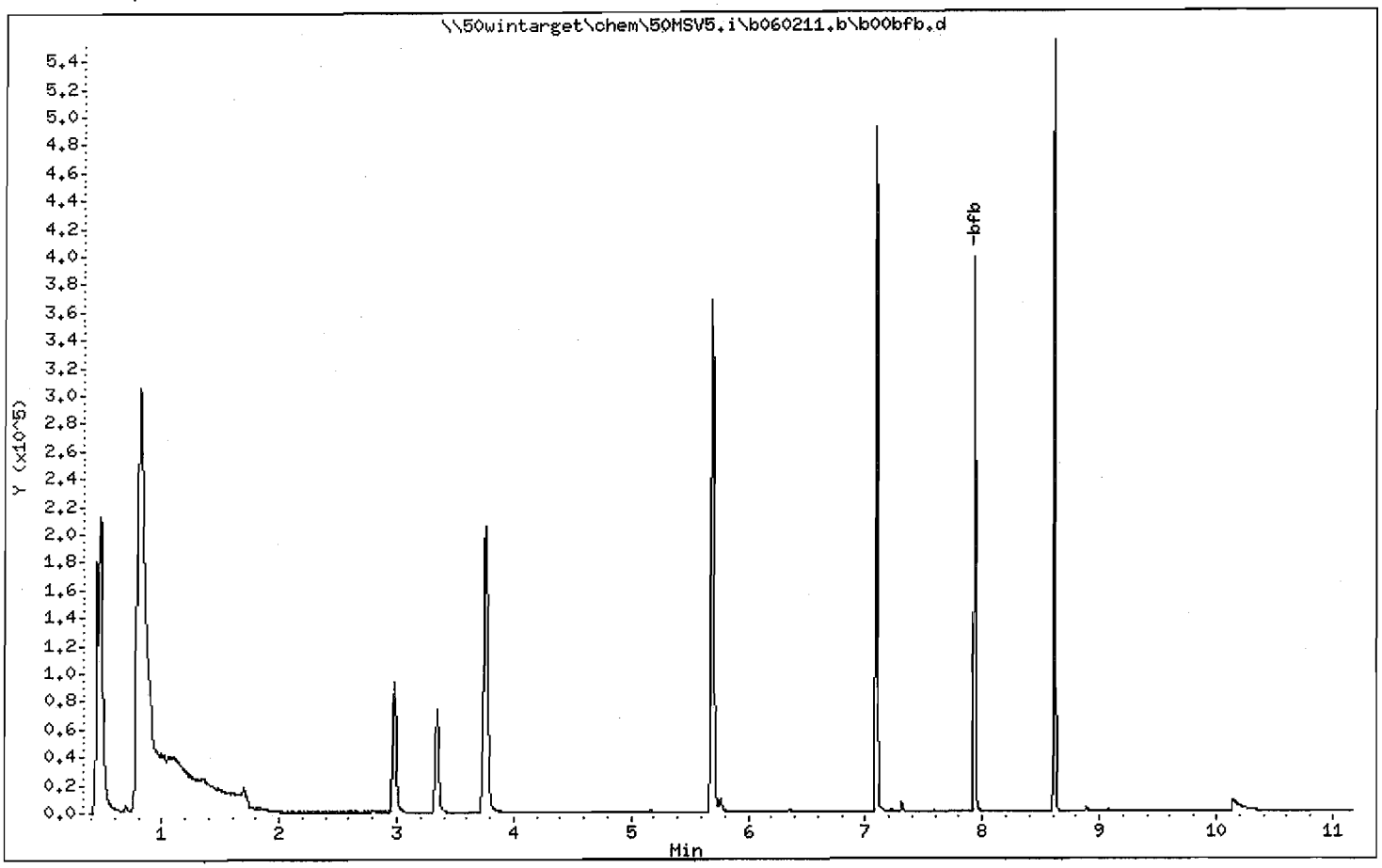
Sample Info: bfb 34D-349

Volume Injected (uL): 1.0

Operator: heb

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b00bfb.d

Date : 02-JUN-2011 14:09

Client ID: bfb050

Instrument: 50MSV5.i

Sample Info: bfb 34D-349

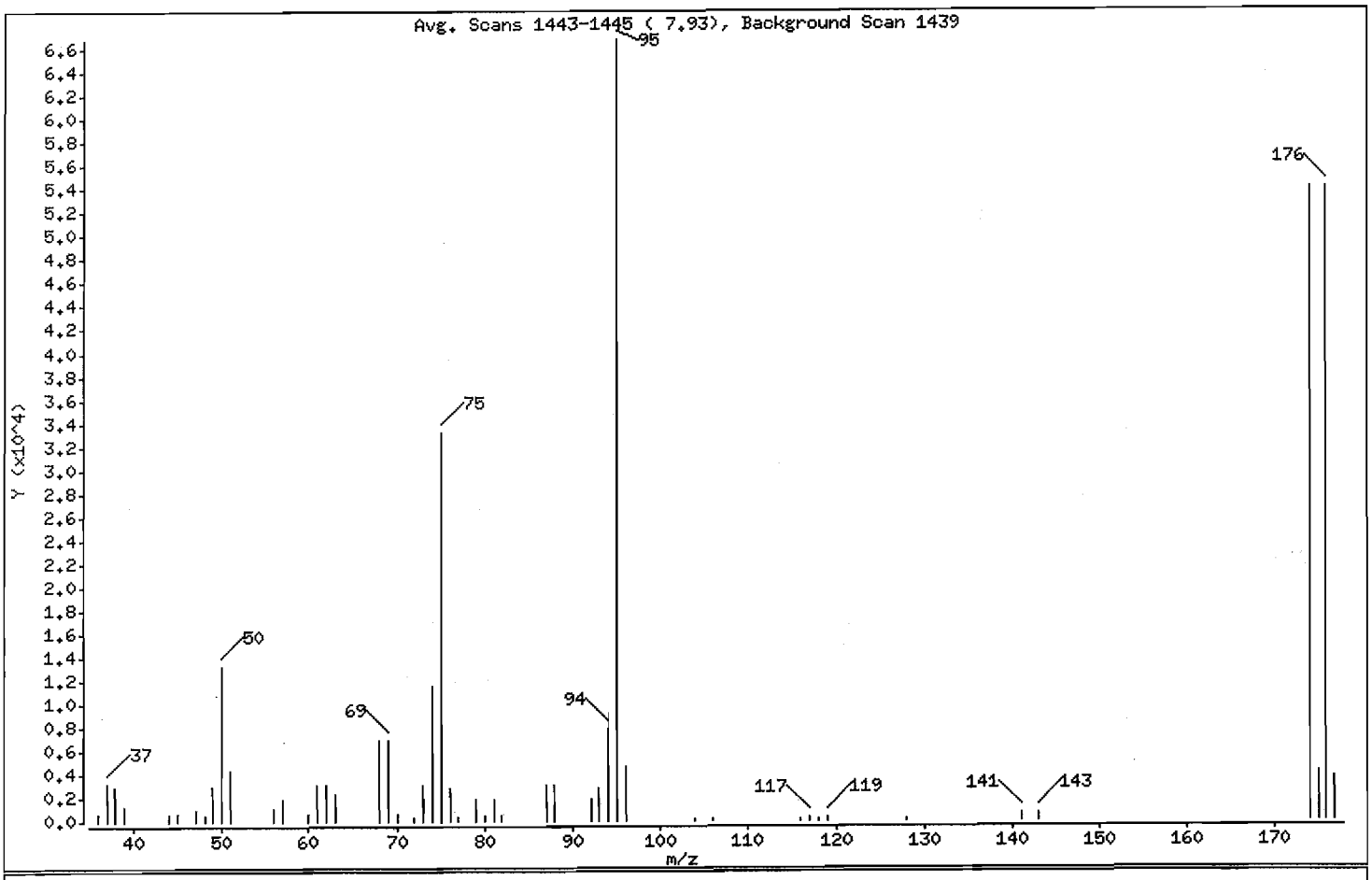
Volume Injected (uL): 1.0

Operator: heb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.83
75	30.00 - 60.00% of mass 95	49.64
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	80.83
175	5.00 - 9.00% of mass 174	6.14 (7.59)
176	95.00 - 101.00% of mass 174	80.98 (100.19)
177	5.00 - 9.00% of mass 176	5.50 (6.79)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b00bfb.d

Date : 02-JUN-2011 14:09

Client ID: bfb050

Instrument: 50MSV5.i

Sample Info: bfb 34D-349

Volume Injected (uL): 1.0

Operator: heb

Column phase:

Column diameter: 2.00

Data File: b00bfb.d
Spectrum: Avg. Scans 1443-1445 (7.93), Background Scan 1439
Location of Maximum: 95.00
Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	588	60.00	613	79.00	1806	116.00	112
37.00	3201	61.00	3007	80.00	507	117.00	289
38.00	2890	62.00	3123	81.00	1875	118.00	114
39.00	1202	63.00	2343	82.00	404	119.00	243
44.00	562	68.00	6839	87.00	3060	128.00	205
45.00	582	69.00	6842	88.00	3041	141.00	681
47.00	998	70.00	637	92.00	1892	143.00	677
48.00	441	72.00	362	93.00	2782	174.00	53992
49.00	2972	73.00	3048	94.00	7815	175.00	4099
50.00	13245	74.00	11444	95.00	66800	176.00	54096
51.00	4232	75.00	33160	96.00	4541	177.00	3673
56.00	1046	76.00	2821	104.00	127		
57.00	1834	77.00	290	106.00	228		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b01.d
Lab Smp Id: 1ppb 34D-366/367 Client Smp ID: 1ppb
Inj Date : 02-JUN-2011 14:46
Operator : heb Inst ID: 50MSV5.i
Smp Info : 1ppb 34D-366/367
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison Quant Type: ISTD
Cal Date : 31-MAY-2011 19:19 Cal File: b08cal.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.855	0.850	(0.227)	1304	1.00000	0.802(M)
2 Chloromethane	50	0.928	0.928	(0.247)	1684	1.00000	1.04(M)
3 Vinyl Chloride	62	0.970	0.970	(0.258)	849	1.00000	0.766(M)
4 Bromomethane	94	1.101	1.101	(0.293)	256	1.00000	0.385(M)
139 Methyl Acetate	43	1.645	1.645	(0.437)	248	1.00000	0.825(M)
5 Chloroethane	64	1.137	1.138	(0.302)	592	1.00000	0.919(QM)
6 Trichlorofluoromethane	101	1.242	1.247	(0.330)	1687	1.00000	0.807(M)
7 Diethyl ether	74	1.362	1.357	(0.362)	97	1.00000	0.0175(QM)
8 Acrolein	56	1.420	1.420	(0.377)	913	20.0000	7.30(M)
9 1,1-Dichloroethene	96	1.467	1.472	(0.390)	356	1.00000	0.357(QM)
10 1,1,2trichlorotrifluoroethane	101	1.462	1.462	(0.389)	204	1.00000	0.173(M)
11 Acetone	43	1.488	1.488	(0.395)	1565	5.00000	(M)
13 Carbon Disulfide	76	1.587	1.587	(0.422)	3883	2.00000	(M)
142 Acetonitrile	39	1.640	1.640	(0.436)	1486	1.00000	0.733(M)
14 allyl chloride	41	1.640	1.640	(0.436)	2167	2.00000	1.63(M)
15 Methylene Chloride	84	1.702	1.702	(0.452)	2601	1.00000	(M)
16 Acrylonitrile	53	1.838	1.838	(0.489)	3068	20.0000	19.6
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.493)	647	1.00000	0.609(M)
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.493)	2617	2.00000	1.05(M)
20 n-Hexane	57	2.016	2.016	(0.536)	453	1.00000	0.325(M)
21 1,1-Dichloroethane	63	2.115	2.116	(0.562)	1337	1.00000	0.679(M)
23 Vinyl Acetate	43	2.142	2.142	(0.569)	2930	4.00000	3.31(M)
143 Chloroprene	53	2.173	2.178	(0.578)	811	1.00000	0.450(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	24 2,2-Dichloropropane	77	2.544	2.545	(0.676)	569	1.00000	0.374 (M)
	25 1,2-Dichloroethene (cis)	96	2.544	2.545	(0.676)	725	1.00000	0.664 (M)
	26 2-Butanone	43	2.571	2.565	(0.683)	836	5.00000	4.24 (M)
	28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	529	1.00000	0.434 (QM)
	30 Tetrahydrofuran	42	2.806	2.806	(0.746)	731	1.00000	(QM)
	31 Chloroform	83	2.827	2.827	(0.751)	1428	1.00000	0.683 (M)
$	32 Dibromofluoromethane (S)	113	2.984	2.984	(0.793)	56730	50.0000	51.3
	33 1,1,1-Trichloroethane	97	2.999	3.000	(0.797)	787	1.00000	0.428 (QM)
	35 Carbon Tetrachloride	117	3.172	3.172	(0.843)	118	1.00000	(QM)
	36 1,1-Dichloropropene	75	3.172	3.177	(0.843)	464	1.00000	0.299 (QM)
	140 Cyclohexane	56	3.052	3.057	(0.811)	328	1.00000	0.190 (QM)
	38 Benzene	78	3.407	3.408	(0.906)	3048	1.00000	0.794 (TM)
	39 1,2-Dichloroethane	62	3.434	3.439	(0.912)	1140	1.00000	0.850 (QM)
	138 2,2,4-Trimethylpentane	57	3.512	3.517	(0.933)	1973	1.00000	0.478 (QM)
	141 Methylcyclohexane	55	4.469	4.469	(1.188)	96	1.00000	0.0544 (QM)
*	40 Fluorobenzene	96	3.763	3.768	(1.000)	219139	50.0000	
	41 Trichloroethene	95	4.244	4.244	(1.128)	458	1.00000	0.362 (M)
	42 1,2-Dichloropropane	63	4.527	4.527	(1.203)	633	1.00000	0.547 (QM)
	45 Bromodichloromethane	83	4.877	4.877	(1.296)	679	1.00000	(QM)
	47 cis-1,3-Dichloropropene	75	5.416	5.411	(0.763)	683	1.00000	0.849 (QM)
	48 4-Methyl-2-Pentanone	43	5.625	5.625	(0.793)	2042	5.00000	7.52 (M)
$	49 Toluene-d8	98	5.698	5.698	(0.803)	229036	50.0000	50.9
	50 Toluene	91	5.766	5.772	(0.813)	7928	1.00000	
	51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.853)	384	1.00000	1.99 (QM)
	52 Ethyl Methacrylate	69	6.200	6.200	(0.874)	225	1.00000	(M)
	53 1,1,2-Trichloroethane	83	6.232	6.237	(0.878)	229	1.00000	0.323 (QM)
	54 Tetrachloroethene	166	6.357	6.357	(0.896)	1126	1.00000	0.752 (M)
	55 1,3-Dichloropropane	76	6.404	6.404	(0.903)	1000	1.00000	0.686 (QM)
	56 2-Hexanone	43	6.535	6.535	(0.921)	1266	5.00000	9.23 (M)
	57 Dibromochloromethane	129	6.614	6.614	(0.932)	285	1.00000	1.47 (M)
	58 1,2-Dibromoethane	107	6.697	6.697	(0.944)	344	1.00000	0.361 (M)
*	59 Chlorobenzene-d5	117	7.095	7.100	(1.000)	176068	50.0000	(M)
	60 Chlorobenzene	112	7.121	7.121	(1.004)	3112	1.00000	0.869 (QM)
	61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.014)	580	1.00000	1.87 (M)
	62 Ethylbenzene	106	7.220	7.220	(1.018)	1434	1.00000	0.762
	63 m&p-Xylene	106	7.309	7.314	(1.030)	4066	2.00000	1.71
	65 o-Xylene	106	7.586	7.592	(1.069)	1662	1.00000	0.764 (M)
	66 Styrene	104	7.602	7.602	(1.072)	2400	1.00000	0.654
	67 Bromoform	173	7.717	7.717	(0.896)	101	1.00000	3.38 (QM)
	68 Isopropylbenzene	105	7.843	7.843	(1.105)	2974	1.00000	0.509 (M)
$	70 4-Bromofluorobenzene	95	7.932	7.937	(1.118)	79046	50.0000	50.1
	71 Bromobenzene	77	8.020	8.021	(1.130)	1716	1.00000	0.817
	72 1,1,2,2-Tetrachloroethane	83	8.041	8.041	(0.933)	636	1.00000	0.690 (M)
	73 1,2,3-Trichloropropane	75	8.057	8.062	(0.935)	660	1.00000	(QM)
	74 n-Propylbenzene	91	8.099	8.104	(0.940)	4209	1.00000	0.617 (M)
	75 2-Chlorotoluene	91	8.146	8.146	(0.945)	2783	1.00000	0.738 (M)
	76 4-Chlorotoluene	126	8.214	8.214	(0.953)	1019	1.00000	0.762
	77 1,3,5-Trimethylbenzene	105	8.209	8.209	(0.953)	2921	1.00000	0.644
	78 tert-Butylbenzene	119	8.397	8.402	(0.975)	2816	1.00000	0.122 (M)
	79 1,2,4-Trimethylbenzene	105	8.423	8.429	(0.978)	3164	1.00000	0.716
	80 sec-Butylbenzene	105	8.523	8.523	(0.989)	3256	1.00000	0.525 (M)
	81 1,3-Dichlorobenzene	146	8.580	8.580	(0.996)	2149	1.00000	0.861 (M)
*	82 1,4-Dichlorobenzene-d4	152	8.617	8.622	(1.000)	86238	50.0000	
	83 p-Isopropyltoluene	119	8.606	8.606	(0.999)	2894	1.00000	0.565 (M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
84 1,4-Dichlorobenzene	146	8.632	8.633	(1.002)	2326	1.00000	0.897(Q)
85 1,2-Dichlorobenzene	146	8.831	8.836	(1.025)	1883	1.00000	0.833(M)
86 n-Butylbenzene	91	8.826	8.826	(1.024)	2904	1.00000	0.596(M)
88 1,2,4-Trichlorobenzene	180	9.652	9.647	(1.120)	1305	1.00000	0.859(M)
89 Hexachlorobutadiene	225	9.731	9.726	(1.129)	549	1.00000	3.27(M)
90 Naphthalene	128	9.778	9.767	(1.135)	2348	1.00000	0.940(M)
91 1,2,3-Trichlorobenzene	180	9.893	9.888	(1.148)	1218	1.00000	0.913(M)
92 2,methyl-naphthalene	142	10.364	10.358	(1.203)	1335	1.00000	6.16(M)

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b01.d
Lab Smp Id: 1ppb 34D-366/367
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: 1ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	177446	88723	354892	219139	23.50
59 Chlorobenzene-d5	163145	81573	326290	176068	7.92
82 1,4-Dichlorobenze	90939	45470	181878	86238	-5.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.76	-0.15
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	-0.08
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	-0.06

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb 34D-366/367
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.802	
74-87-3	Chloromethane	1.04	
75-01-4	Vinyl Chloride	0.766	
74-83-9	Bromomethane	0.385	
79-20-9	Methyl Acetate	0.825	
75-00-3	Chloroethane	0.919	
75-69-4	Trichlorofluoromethane	0.807	
60-29-7	Diethyl ether	0.0175	
107-02-8	Acrolein	7.30	
75-35-4	1,1-Dichloroethene	0.357	
76-13-1	1,1,2trichlorotrifluoroethan	0.173	
67-64-1	Acetone	0.000	
75-15-0	Carbon Disulfide	0.000	
75-05-8	Acetonitrile	0.733	
107-05-1	allyl chloride	1.63	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	19.6	
156-60-5	1,2-Dichloroethene (trans)	0.609	
1634-04-4	Methyl-tert-butyl ether	1.05	
	n-Hexane	0.325	
75-34-3	1,1-Dichloroethane	0.679	
108-05-4	Vinyl Acetate	3.31	
126-99-8	Chloroprene	0.450	
594-20-7	2,2-Dichloropropane	0.374	
156-59-2	1,2-Dichloroethene (cis)	0.664	
78-93-3	2-Butanone	4.24	
354-23-4	1,2-dichlorotrifluoroethane	0.434	
	Tetrahydrofuran	0.000	
67-66-3	Chloroform	0.683	
71-55-6	1,1,1-Trichloroethane	0.428	
56-23-5	Carbon Tetrachloride	0.000	
563-58-6	1,1-Dichloropropene	0.299	
110-82-7	Cyclohexane	0.190	
71-43-2	Benzene	0.794	
107-06-2	1,2-Dichloroethane	0.850	
540-84-1	2,2,4-Trimethylpentane	0.478	
108-82-7	Methylcyclohexane	0.0544	
79-01-6	Trichloroethene	0.362	
78-87-5	1,2-Dichloropropane	0.547	
75-27-4	Bromodichloromethane	0.000	
10061-01-5	cis-1,3-Dichloropropene	0.849	
108-10-1	4-Methyl-2-Pentanone	7.52	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

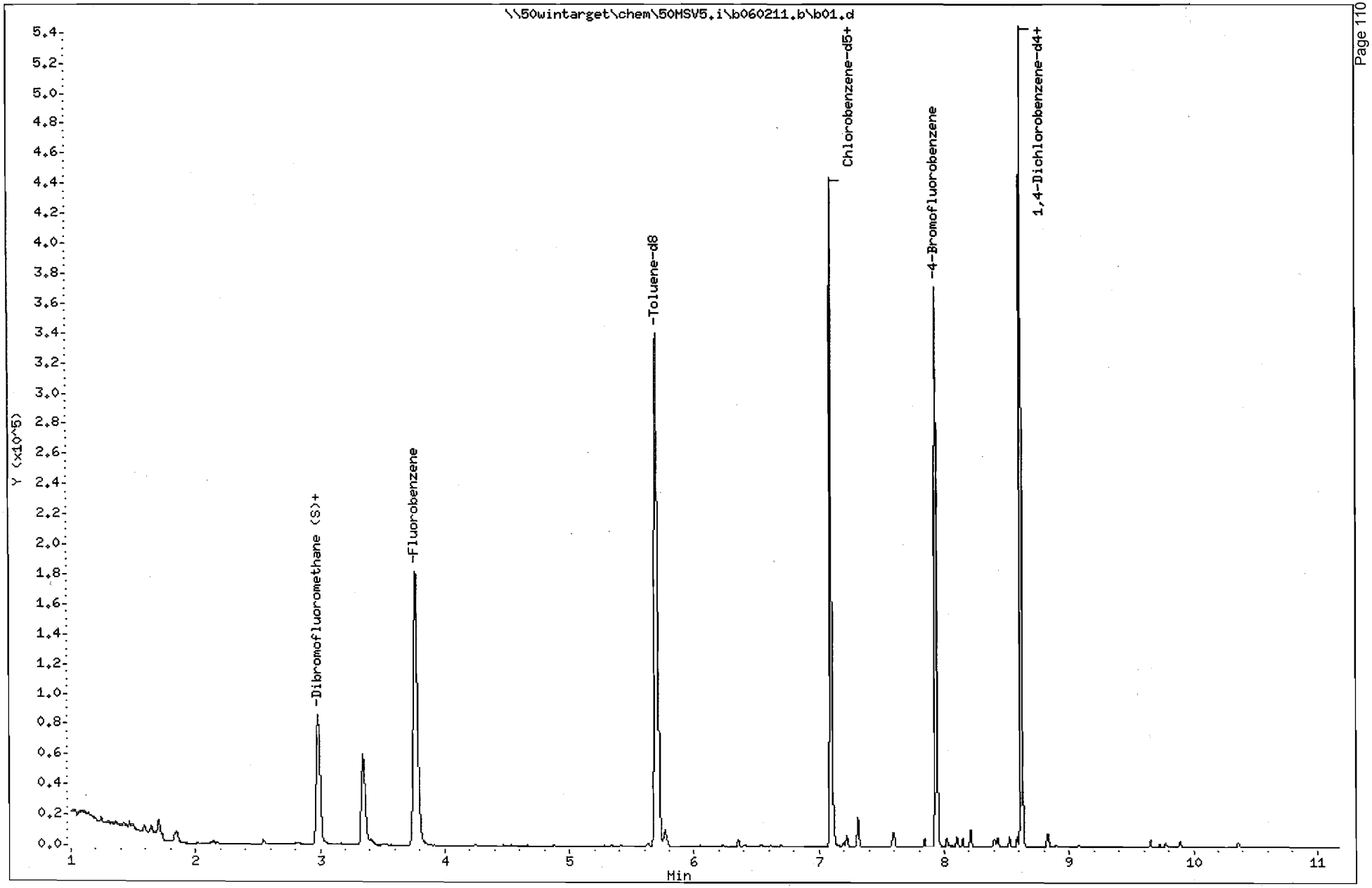
Client Name:
Lab Smp Id: 1ppb 34D-366/367
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-88-3	Toluene	0.000	
10061-02-6	trans-1,3-Dichloropropene	1.99	
	Ethyl Methacrylate	0.000	
79-00-5	1,1,2-Trichloroethane	0.323	
127-18-4	Tetrachloroethene	0.752	
142-28-9	1,3-Dichloropropane	0.686	
591-78-6	2-Hexanone	9.23	
124-48-1	Dibromochloromethane	1.47	
106-93-4	1,2-Dibromoethane	0.361	
108-90-7	Chlorobenzene	0.869	
630-20-6	1,1,1,2-Tetrachloroethane	1.87	
100-41-4	Ethylbenzene	0.762	
7816-60-0	m&p-Xylene	1.71	
95-47-6	o-Xylene	0.764	
100-42-5	Styrene	0.654	
75-25-2	Bromoform	3.38	
98-82-8	Isopropylbenzene	0.509	
108-86-1	Bromobenzene	0.817	
79-34-5	1,1,2,2-Tetrachloroethane	0.690	
96-18-4	1,2,3-Trichloropropane	0.000	
103-65-1	n-Propylbenzene	0.617	
95-49-8	2-Chlorotoluene	0.738	
106-43-4	4-Chlorotoluene	0.762	
108-67-8	1,3,5-Trimethylbenzene	0.644	
98-06-6	tert-Butylbenzene	0.122	
95-63-6	1,2,4-Trimethylbenzene	0.716	
135-98-8	sec-Butylbenzene	0.525	
541-73-1	1,3-Dichlorobenzene	0.861	
99-87-6	p-Isopropyltoluene	0.565	
106-46-7	1,4-Dichlorobenzene	0.897	
95-50-1	1,2-Dichlorobenzene	0.833	
104-51-8	n-Butylbenzene	0.596	
120-82-1	1,2,4-Trichlorobenzene	0.859	
87-68-3	Hexachlorobutadiene	3.27	
91-20-3	Naphthalene	0.940	
87-61-6	1,2,3-Trichlorobenzene	0.913	
	2,methyl-naphthalene	6.16	
1868-53-7	Dibromofluoromethane (S)	51.3	
2037-26-5	Toluene-d8	50.9	
460-00-4	4-Bromofluorobenzene	50.1	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b01.d
Date : 02-JUN-2011 14:46
Client ID: 1ppb
Sample Info: 1ppb 34D-366/367
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b01.d

Date : 02-JUN-2011 14:46

Client ID: 1ppb

Instrument: 50MSV5.i

Sample Info: 1ppb 34D-366/367

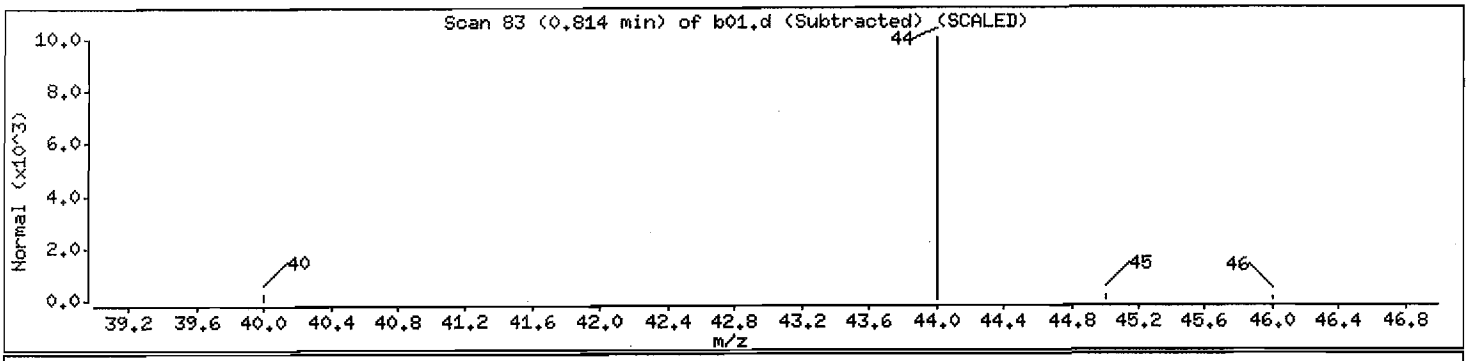
Purge Volume: 5.0

Operator: heb

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b02.d
Lab Smp Id: 2ppb Client Smp ID: 2ppb
Inj Date : 02-JUN-2011 15:23
Operator : heb Inst ID: 50MSV5.i
Smp Info : 2ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison Quant Type: ISTD
Cal Date : 31-MAY-2011 19:19 Cal File: b08cal.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.850	0.850	(0.226)	3161	2.00000	2.04(M)
2 Chloromethane	50	0.928	0.928	(0.247)	3136	2.00000	2.04(M)
3 Vinyl Chloride	62	0.965	0.970	(0.257)	2147	2.00000	2.03(M)
4 Bromomethane	94	1.101	1.101	(0.293)	1028	2.00000	1.43(M)
139 Methyl Acetate	43	1.645	1.645	(0.437)	606	2.00000	2.11(M)
5 Chloroethane	64	1.138	1.138	(0.302)	1170	2.00000	1.90(M)
6 Trichlorofluoromethane	101	1.242	1.247	(0.330)	3743	2.00000	1.88
7 Diethyl ether	74	1.357	1.357	(0.361)	493	2.00000	1.09(QM)
8 Acrolein	56	1.420	1.420	(0.377)	2111	40.0000	26.7
9 1,1-Dichloroethene	96	1.467	1.472	(0.390)	1627	2.00000	1.71(QM)
10 1,1,2trichlorotrifluoroethane	101	1.462	1.462	(0.389)	2022	2.00000	1.80
11 Acetone	43	1.488	1.488	(0.395)	2029	10.0000	4.12(M)
12 Iodomethane	142	1.551	1.551	(0.412)	1549	4.00000	3.37(M)
13 Carbon Disulfide	76	1.587	1.587	(0.422)	11901	4.00000	2.43(M)
142 Acetonitrile	39	1.640	1.640	(0.436)	3864	2.00000	2.00(M)
14 allyl chloride	41	1.640	1.640	(0.436)	5075	4.00000	4.00
15 Methylene Chloride	84	1.702	1.702	(0.452)	3453	2.00000	
16 Acrylonitrile	53	1.838	1.838	(0.489)	5803	40.0000	38.9
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.493)	1845	2.00000	1.82
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.493)	5473	4.00000	2.71(M)
20 n-Hexane	57	2.016	2.016	(0.536)	2212	2.00000	1.66(M)
21 1,1-Dichloroethane	63	2.110	2.116	(0.561)	3450	2.00000	1.84(M)
23 Vinyl Acetate	43	2.147	2.142	(0.571)	5839	8.00000	6.03(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
143 Chloroprene	53	2.178	2.178	(0.579)	2697	2.00000	1.57(M)
24 2,2-Dichloropropane	77	2.545	2.545	(0.676)	2485	2.00000	1.71(M)
25 1,2-Dichloroethene (cis)	96	2.539	2.545	(0.675)	1953	2.00000	1.88
26 2-Butanone	43	2.565	2.565	(0.682)	1701	10.0000	9.04(M)
28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	2127	2.00000	1.83(QM)
29 Bromochloromethane	49	2.743	2.748	(0.729)	886	2.00000	(M)
30 Tetrahydrofuran	42	2.811	2.806	(0.747)	900	2.00000	(M)
31 Chloroform	83	2.827	2.827	(0.751)	3647	2.00000	1.83
$ 32 Dibromofluoromethane (S)	113	2.979	2.984	(0.792)	53640	50.0000	50.8
33 1,1,1-Trichloroethane	97	3.000	3.000	(0.797)	2820	2.00000	1.61(Q)
35 Carbon Tetrachloride	117	3.167	3.172	(0.842)	2080	2.00000	0.00824(M)
36 1,1-Dichloropropene	75	3.177	3.177	(0.844)	2440	2.00000	1.65(M)
37 Isobutyl alcohol	43	3.507	3.559	(0.932)	1041	2.00000	2.84(M)
140 Cyclohexane	56	3.052	3.057	(0.811)	2931	2.00000	1.78(Q)
38 Benzene	78	3.408	3.408	(0.906)	6993	2.00000	1.91(TM)
39 1,2-Dichloroethane	62	3.439	3.439	(0.914)	2352	2.00000	1.84(M)
138 2,2,4-Trimethylpentane	57	3.517	3.517	(0.935)	6144	2.00000	1.56(M)
141 Methylcyclohexane	55	4.464	4.469	(1.186)	2772	2.00000	1.65(QM)
* 40 Fluorobenzene	96	3.763	3.768	(1.000)	209002	50.0000	
41 Trichloroethene	95	4.250	4.244	(1.129)	1970	2.00000	1.63
42 1,2-Dichloropropane	63	4.522	4.527	(1.201)	1768	2.00000	1.60(QM)
43 Dibromomethane	93	4.668	4.663	(1.240)	833	2.00000	1.37(M)
45 Bromodichloromethane	83	4.877	4.877	(1.296)	1986	2.00000	(QM)
46 2-Chloroethyl vinyl ether	63	5.280	5.280	(0.744)	567	4.00000	3.59(QM)
47 cis-1,3-Dichloropropene	75	5.411	5.411	(0.763)	1627	2.00000	1.42(M)
48 4-Methyl-2-Pentanone	43	5.630	5.625	(0.794)	4504	10.0000	11.3(M)
$ 49 Toluene-d8	98	5.698	5.698	(0.803)	216611	50.0000	49.6
50 Toluene	91	5.766	5.772	(0.813)	13627	2.00000	
51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.853)	1183	2.00000	2.55(M)
52 Ethyl Methacrylate	69	6.200	6.200	(0.874)	936	2.00000	(M)
53 1,1,2-Trichloroethane	83	6.232	6.237	(0.878)	1089	2.00000	1.58(QM)
54 Tetrachloroethene	166	6.352	6.357	(0.895)	2947	2.00000	2.03
55 1,3-Dichloropropane	76	6.404	6.404	(0.903)	2286	2.00000	1.62(M)
56 2-Hexanone	43	6.535	6.535	(0.921)	2632	10.0000	12.2(M)
57 Dibromochloromethane	129	6.608	6.614	(0.931)	1045	2.00000	2.16(M)
58 1,2-Dibromoethane	107	6.697	6.697	(0.944)	1076	2.00000	1.21
* 59 Chlorobenzene-d5	117	7.095	7.100	(1.000)	170918	50.0000	
60 Chlorobenzene	112	7.116	7.121	(1.003)	6785	2.00000	1.95(Q)
61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.014)	1466	2.00000	2.60(M)
62 Ethylbenzene	106	7.220	7.220	(1.018)	3430	2.00000	1.88
63 m&p-Xylene	106	7.309	7.314	(1.030)	9312	4.00000	4.03
65 o-Xylene	106	7.592	7.592	(1.070)	3828	2.00000	1.81
66 Styrene	104	7.602	7.602	(1.072)	5960	2.00000	1.67
67 Bromoform	173	7.717	7.717	(0.896)	424	2.00000	3.91(M)
68 Isopropylbenzene	105	7.843	7.843	(1.105)	9193	2.00000	1.62
69 trans-1,4-Dichloro-2-butene	53	8.078	8.078	(1.139)	329	2.00000	4.51(QM)
$ 70 4-Bromofluorobenzene	95	7.932	7.937	(1.118)	77267	50.0000	50.4
71 Bromobenzene	77	8.021	8.021	(1.130)	3808	2.00000	1.87
72 1,1,2,2-Tetrachloroethane	83	8.042	8.041	(0.933)	1540	2.00000	1.69(M)
73 1,2,3-Trichloropropane	75	8.057	8.062	(0.935)	1431	2.00000	0.285(M)
74 n-Propylbenzene	91	8.099	8.104	(0.940)	11676	2.00000	1.73
75 2-Chlorotoluene	91	8.146	8.146	(0.945)	7348	2.00000	1.97
76 4-Chlorotoluene	126	8.214	8.214	(0.953)	2415	2.00000	1.82
77 1,3,5-Trimethylbenzene	105	8.209	8.209	(0.953)	7956	2.00000	1.77

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
78 tert-Butylbenzene	119	8.397	8.402	(0.975)	7058	2.00000	0.921
79 1,2,4-Trimethylbenzene	105	8.429	8.429	(0.978)	8147	2.00000	1.86
80 sec-Butylbenzene	105	8.523	8.523	(0.989)	10309	2.00000	1.68
81 1,3-Dichlorobenzene	146	8.580	8.580	(0.996)	4697	2.00000	1.90
* 82 1,4-Dichlorobenzene-d4	152	8.617	8.622	(1.000)	85346	50.0000	
83 p-Isopropyltoluene	119	8.606	8.606	(0.999)	8917	2.00000	1.76
84 1,4-Dichlorobenzene	146	8.633	8.633	(1.002)	5227	2.00000	2.04
85 1,2-Dichlorobenzene	146	8.831	8.836	(1.025)	4136	2.00000	1.85
86 n-Butylbenzene	91	8.826	8.826	(1.024)	8221	2.00000	1.70
88 1,2,4-Trichlorobenzene	180	9.647	9.647	(1.120)	2893	2.00000	1.92(M)
89 Hexachlorobutadiene	225	9.726	9.726	(1.129)	1845	2.00000	4.35
90 Naphthalene	128	9.773	9.767	(1.134)	4488	2.00000	1.82(M)
91 1,2,3-Trichlorobenzene	180	9.888	9.888	(1.147)	2630	2.00000	1.99(M)
92 2,methyl-naphthalene	142	10.359	10.358	(1.202)	2511	2.00000	6.68(M)

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b02.d
Lab Smp Id: 2ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: 2ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	177446	88723	354892	209002	17.78
59 Chlorobenzene-d5	163145	81573	326290	170918	4.76
82 1,4-Dichlorobenze	90939	45470	181878	85346	-6.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.76	-0.14
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	-0.08
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	-0.06

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	2.04	
74-87-3	Chloromethane	2.04	
75-01-4	Vinyl Chloride	2.03	
74-83-9	Bromomethane	1.43	
79-20-9	Methyl Acetate	2.11	
75-00-3	Chloroethane	1.90	
75-69-4	Trichlorofluoromethane	1.88	
60-29-7	Diethyl ether	1.09	
107-02-8	Acrolein	26.7	
75-35-4	1,1-Dichloroethene	1.71	
76-13-1	1,1,2trichlorotrifluoroethan	1.80	
67-64-1	Acetone	4.12	
	Iodomethane	3.37	
75-15-0	Carbon Disulfide	2.43	
75-05-8	Acetonitrile	2.00	
107-05-1	allyl chloride	4.00	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	38.9	
156-60-5	1,2-Dichloroethene (trans)	1.82	
1634-04-4	Methyl-tert-butyl ether	2.71	
	n-Hexane	1.66	
75-34-3	1,1-Dichloroethane	1.84	
108-05-4	Vinyl Acetate	6.03	
126-99-8	Chloroprene	1.57	
594-20-7	2,2-Dichloropropane	1.71	
156-59-2	1,2-Dichloroethene (cis)	1.88	
78-93-3	2-Butanone	9.04	
354-23-4	1,2-dichlorotrifluoroethane	1.83	
74-97-5	Bromochloromethane	0.000	
	Tetrahydrofuran	0.000	
67-66-3	Chloroform	1.83	
71-55-6	1,1,1-Trichloroethane	1.61	
56-23-5	Carbon Tetrachloride	0.00824	
563-58-6	1,1-Dichloropropene	1.65	
78-83-1	Isobutyl alcohol	2.84	
110-82-7	Cyclohexane	1.78	
71-43-2	Benzene	1.91	
107-06-2	1,2-Dichloroethane	1.84	
540-84-1	2,2,4-Trimethylpentane	1.56	
108-82-7	Methylcyclohexane	1.65	
79-01-6	Trichloroethene	1.63	
78-87-5	1,2-Dichloropropane	1.60	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
74-95-3	Dibromomethane	1.37	
75-27-4	Bromodichloromethane	0.000	
110-75-8	2-Chloroethyl vinyl ether	3.59	
10061-01-5	cis-1,3-Dichloropropene	1.42	
108-10-1	4-Methyl-2-Pentanone	11.3	
108-88-3	Toluene	0.000	
10061-02-6	trans-1,3-Dichloropropene	2.55	
	Ethyl Methacrylate	0.000	
79-00-5	1,1,2-Trichloroethane	1.58	
127-18-4	Tetrachloroethene	2.03	
142-28-9	1,3-Dichloropropane	1.62	
591-78-6	2-Hexanone	12.2	
124-48-1	Dibromochloromethane	2.16	
106-93-4	1,2-Dibromoethane	1.21	
108-90-7	Chlorobenzene	1.95	
630-20-6	1,1,1,2-Tetrachloroethane	2.60	
100-41-4	Ethylbenzene	1.88	
7816-60-0	m&p-Xylene	4.03	
95-47-6	o-Xylene	1.81	
100-42-5	Styrene	1.67	
75-25-2	Bromoform	3.91	
98-82-8	Isopropylbenzene	1.62	
	trans-1,4-Dichloro-2-butene	4.51	
108-86-1	Bromobenzene	1.87	
79-34-5	1,1,2,2-Tetrachloroethane	1.69	
96-18-4	1,2,3-Trichloropropane	0.285	
103-65-1	n-Propylbenzene	1.73	
95-49-8	2-Chlorotoluene	1.97	
106-43-4	4-Chlorotoluene	1.82	
108-67-8	1,3,5-Trimethylbenzene	1.77	
98-06-6	tert-Butylbenzene	0.921	
95-63-6	1,2,4-Trimethylbenzene	1.86	
135-98-8	sec-Butylbenzene	1.68	
541-73-1	1,3-Dichlorobenzene	1.90	
99-87-6	p-Isopropyltoluene	1.76	
106-46-7	1,4-Dichlorobenzene	2.04	
95-50-1	1,2-Dichlorobenzene	1.85	
104-51-8	n-Butylbenzene	1.70	
120-82-1	1,2,4-Trichlorobenzene	1.92	
87-68-3	Hexachlorobutadiene	4.35	
91-20-3	Naphthalene	1.82	
87-61-6	1,2,3-Trichlorobenzene	1.99	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

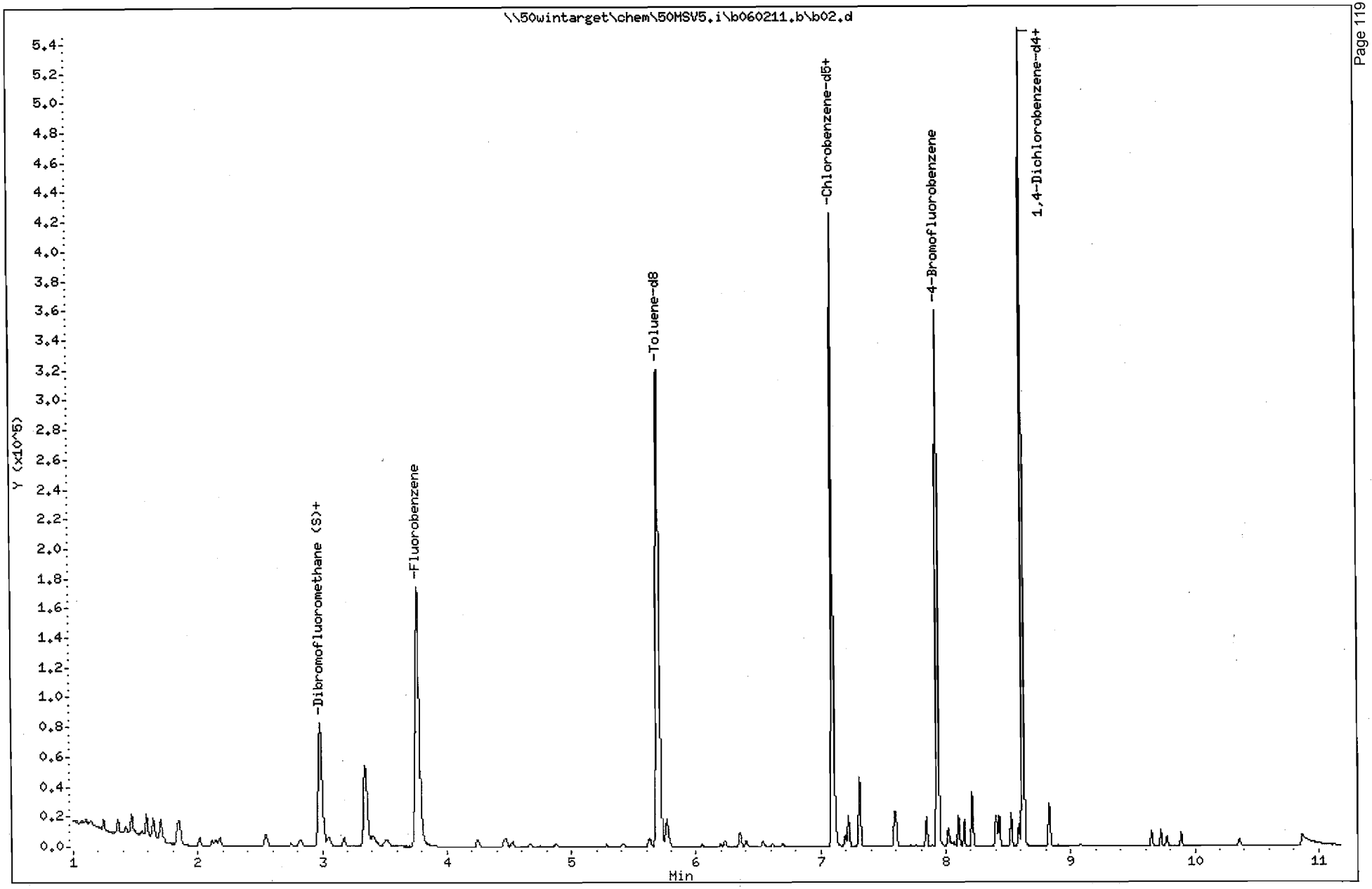
Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
	2,methyl-naphthalene	6.68	
1868-53-7	Dibromofluoromethane (S)	50.8	
2037-26-5	Toluene-d8	49.6	
460-00-4	4-Bromofluorobenzene	50.4	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b02.d
Date : 02-JUN-2011 15:23
Client ID: 2ppb
Sample Info: 2ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b02.d

Date : 02-JUN-2011 15:23

Client ID: 2ppb

Instrument: 50MSV5.i

Sample Info: 2ppb

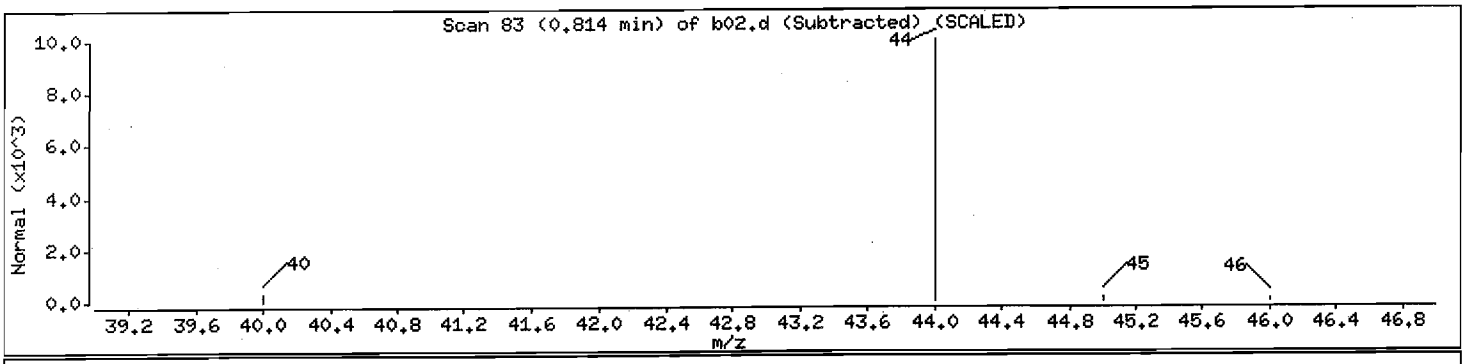
Purge Volume: 5.0

Operator: heb

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b03.d
Lab Smp Id: 5ppb Client Smp ID: 5ppb
Inj Date : 02-JUN-2011 15:59
Operator : heb Inst ID: 50MSV5.i
Smp Info : 5ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison Quant Type: ISTD
Cal Date : 31-MAY-2011 19:19 Cal File: b08cal.d
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.850	0.850	(0.226)	7089	5.00000	5.02(M)
2 Chloromethane	50	0.929	0.928	(0.247)	7611	5.00000	5.43
3 Vinyl Chloride	62	0.970	0.970	(0.258)	4861	5.00000	5.04
4 Bromomethane	94	1.101	1.101	(0.293)	2364	5.00000	3.51
139 Methyl Acetate	43	1.645	1.645	(0.437)	1479	5.00000	5.65(M)
5 Chloroethane	64	1.138	1.138	(0.302)	2898	5.00000	5.17(M)
6 Trichlorofluoromethane	101	1.242	1.247	(0.330)	8908	5.00000	4.90
7 Diethyl ether	74	1.357	1.357	(0.361)	1623	5.00000	4.54(Q)
8 Acrolein	56	1.420	1.420	(0.377)	5728	100.000	91.9
9 1,1-Dichloroethene	96	1.467	1.472	(0.390)	4432	5.00000	5.11
10 1,1,2trichlorotrifluoroethane	101	1.462	1.462	(0.389)	5215	5.00000	5.09
11 Acetone	43	1.488	1.488	(0.396)	3846	25.0000	23.1(M)
12 Iodomethane	142	1.551	1.551	(0.412)	7993	10.0000	7.32
13 Carbon Disulfide	76	1.588	1.587	(0.422)	29281	10.0000	8.93
142 Acetonitrile	39	1.640	1.640	(0.436)	9582	5.00000	5.43
14 allyl chloride	41	1.640	1.640	(0.436)	12932	10.0000	11.2
15 Methylene Chloride	84	1.703	1.702	(0.452)	6105	5.00000	1.80
16 Acrylonitrile	53	1.839	1.838	(0.489)	15126	100.000	111
17 tert-Butyl Alcohol	59	1.750	1.750	(0.465)	102	10.0000	(QM)
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.493)	4709	5.00000	5.10
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.493)	15661	10.0000	9.23
20 n-Hexane	57	2.016	2.016	(0.536)	5906	5.00000	4.87(M)
21 1,1-Dichloroethane	63	2.111	2.116	(0.561)	8759	5.00000	5.12(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.142	2.142	(0.569)	16174	20.0000	16.6
	143 Chloroprene	53	2.179	2.178	(0.579)	7517	5.00000	4.80
	24 2,2-Dichloropropane	77	2.545	2.545	(0.676)	6425	5.00000	4.85
	25 1,2-Dichloroethene (cis)	96	2.545	2.545	(0.676)	4755	5.00000	5.01
	26 2-Butanone	43	2.566	2.565	(0.682)	4102	25.0000	23.9 (M)
	144 Methacrylonitrile	41	2.749	2.748	(0.730)	1005	25.0000	20.0 (M)
	28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	5269	5.00000	4.97
	29 Bromochloromethane	49	2.749	2.748	(0.730)	3091	5.00000	3.09
	30 Tetrahydrofuran	42	2.806	2.806	(0.746)	1231	5.00000	3.89 (M)
	31 Chloroform	83	2.822	2.827	(0.750)	9723	5.00000	5.35
$	32 Dibromofluoromethane (S)	113	2.979	2.984	(0.792)	49808	50.0000	51.8
	33 1,1,1-Trichloroethane	97	3.000	3.000	(0.797)	8166	5.00000	5.10
	35 Carbon Tetrachloride	117	3.172	3.172	(0.843)	6356	5.00000	3.10
	36 1,1-Dichloropropene	75	3.172	3.177	(0.843)	6665	5.00000	4.93
	37 Isobutyl alcohol	43	3.518	3.559	(0.935)	3666	5.00000	6.56 (M)
	140 Cyclohexane	56	3.052	3.057	(0.811)	7550	5.00000	5.02
	38 Benzene	78	3.402	3.408	(0.904)	17819	5.00000	5.34
	39 1,2-Dichloroethane	62	3.439	3.439	(0.914)	6207	5.00000	5.32 (M)
	138 2,2,4-Trimethylpentane	57	3.512	3.517	(0.933)	19889	5.00000	5.54
	141 Methylcyclohexane	55	4.469	4.469	(1.188)	7314	5.00000	4.77
*	40 Fluorobenzene	96	3.763	3.768	(1.000)	190634	50.0000	
	41 Trichloroethene	95	4.245	4.244	(1.128)	5381	5.00000	4.89
	42 1,2-Dichloropropane	63	4.527	4.527	(1.203)	4936	5.00000	4.90 (M)
	43 Dibromomethane	93	4.658	4.663	(1.238)	2526	5.00000	4.46
	44 Methyl methacrylate	69	4.741	4.741	(1.260)	1138	5.00000	1.75 (QM)
	45 Bromodichloromethane	83	4.872	4.877	(1.295)	5545	5.00000	2.61 (M)
	46 2-Chloroethyl vinyl ether	63	5.280	5.280	(0.744)	2542	10.0000	8.17 (M)
	47 cis-1,3-Dichloropropene	75	5.411	5.411	(0.763)	5407	5.00000	3.98
	48 4-Methyl-2-Pentanone	43	5.625	5.625	(0.793)	11823	25.0000	24.0 (M)
$	49 Toluene-d8	98	5.693	5.698	(0.802)	199103	50.0000	50.0
	50 Toluene	91	5.767	5.772	(0.813)	26481	5.00000	2.88
	51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.853)	3727	5.00000	4.54
	52 Ethyl Methacrylate	69	6.195	6.200	(0.873)	2961	5.00000	2.33 (QM)
	53 1,1,2-Trichloroethane	83	6.232	6.237	(0.878)	3136	5.00000	5.00
	54 Tetrachloroethene	166	6.352	6.357	(0.895)	6892	5.00000	5.21
	55 1,3-Dichloropropane	76	6.399	6.404	(0.902)	6261	5.00000	4.86
	56 2-Hexanone	43	6.535	6.535	(0.921)	7739	25.0000	24.6 (M)
	57 Dibromochloromethane	129	6.609	6.614	(0.931)	3519	5.00000	4.70
	58 1,2-Dibromoethane	107	6.697	6.697	(0.944)	3287	5.00000	4.12
*	59 Chlorobenzene-d5	117	7.095	7.100	(1.000)	155625	50.0000	
	60 Chlorobenzene	112	7.116	7.121	(1.003)	16656	5.00000	5.26
	61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.014)	3908	5.00000	4.89
	62 Ethylbenzene	106	7.221	7.220	(1.018)	8727	5.00000	5.25
	63 m&p-Xylene	106	7.309	7.314	(1.030)	22431	10.0000	10.6
	65 o-Xylene	106	7.592	7.592	(1.070)	9671	5.00000	5.03
	66 Styrene	104	7.602	7.602	(1.072)	15492	5.00000	4.78
	67 Bromoform	173	7.717	7.717	(0.896)	1624	5.00000	6.16 (M)
	68 Isopropylbenzene	105	7.843	7.843	(1.105)	24618	5.00000	4.77
	69 trans-1,4-Dichloro-2-butene	53	8.073	8.078	(1.138)	774	5.00000	6.03 (QM)
$	70 4-Bromofluorobenzene	95	7.932	7.937	(1.118)	70979	50.0000	50.9
	71 Bromobenzene	77	8.021	8.021	(1.130)	9835	5.00000	5.30
	72 1,1,2,2-Tetrachloroethane	83	8.042	8.041	(0.933)	4138	5.00000	4.99 (M)
	73 1,2,3-Trichloropropane	75	8.057	8.062	(0.935)	3784	5.00000	3.05 (M)
	74 n-Propylbenzene	91	8.099	8.104	(0.940)	31333	5.00000	5.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
75 2-Chlorotoluene	91	8.146	8.146	(0.945)	18486	5.00000	5.45
76 4-Chlorotoluene	126	8.214	8.214	(0.953)	6081	5.00000	5.05
77 1,3,5-Trimethylbenzene	105	8.209	8.209	(0.953)	20531	5.00000	5.03
78 tert-Butylbenzene	119	8.397	8.402	(0.975)	20951	5.00000	3.91
79 1,2,4-Trimethylbenzene	105	8.423	8.429	(0.978)	21103	5.00000	5.30
80 sec-Butylbenzene	105	8.523	8.523	(0.989)	26973	5.00000	4.83
81 1,3-Dichlorobenzene	146	8.580	8.580	(0.996)	11606	5.00000	5.17
* 82 1,4-Dichlorobenzene-d4	152	8.617	8.622	(1.000)	77640	50.0000	
83 p-Isopropyltoluene	119	8.607	8.606	(0.999)	22818	5.00000	4.95
84 1,4-Dichlorobenzene	146	8.633	8.633	(1.002)	12132	5.00000	5.19
85 1,2-Dichlorobenzene	146	8.831	8.836	(1.025)	10499	5.00000	5.16
86 n-Butylbenzene	91	8.826	8.826	(1.024)	21563	5.00000	4.91
87 1,2-Dibromo-3-chloropropane	155	9.234	9.239	(1.072)	217	5.00000	4.84(QM)
88 1,2,4-Trichlorobenzene	180	9.647	9.647	(1.120)	6338	5.00000	4.63
89 Hexachlorobutadiene	225	9.726	9.726	(1.129)	4042	5.00000	6.50
90 Naphthalene	128	9.773	9.767	(1.134)	9874	5.00000	4.39
91 1,2,3-Trichlorobenzene	180	9.888	9.888	(1.147)	5631	5.00000	4.69
92 2,methyl-naphthalene	142	10.359	10.358	(1.202)	4574	5.00000	7.77

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b03.d
Lab Smp Id: 5ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: 5ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	177446	88723	354892	190634	7.43
59 Chlorobenzene-d5	163145	81573	326290	155625	-4.61
82 1,4-Dichlorobenze	90939	45470	181878	77640	-14.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.76	-0.14
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	-0.07
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	-0.06

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	5.02	
74-87-3	Chloromethane	5.43	
75-01-4	Vinyl Chloride	5.04	
74-83-9	Bromomethane	3.51	
79-20-9	Methyl Acetate	5.65	
75-00-3	Chloroethane	5.17	
75-69-4	Trichlorofluoromethane	4.90	
60-29-7	Diethyl ether	4.54	
107-02-8	Acrolein	91.9	
75-35-4	1,1-Dichloroethene	5.11	
76-13-1	1,1,2trichlorotrifluoroethan	5.09	
67-64-1	Acetone	23.1	
	Iodomethane	7.32	
75-15-0	Carbon Disulfide	8.93	
75-05-8	Acetonitrile	5.43	
107-05-1	allyl chloride	11.2	
75-09-2	Methylene Chloride	1.80	
107-13-1	Acrylonitrile	111	
75-65-0	tert-Butyl Alcohol	0.000	
156-60-5	1,2-Dichloroethene (trans)	5.10	
1634-04-4	Methyl-tert-butyl ether	9.23	
	n-Hexane	4.87	
75-34-3	1,1-Dichloroethane	5.12	
108-05-4	Vinyl Acetate	16.6	
126-99-8	Chloroprene	4.80	
594-20-7	2,2-Dichloropropane	4.85	
156-59-2	1,2-Dichloroethene (cis)	5.01	
78-93-3	2-Butanone	23.9	
126-98-7	Methacrylonitrile	20.0	
354-23-4	1,2-dichlorotrifluoroethane	4.97	
74-97-5	Bromochloromethane	3.09	
	Tetrahydrofuran	3.89	
67-66-3	Chloroform	5.35	
71-55-6	1,1,1-Trichloroethane	5.10	
56-23-5	Carbon Tetrachloride	3.10	
563-58-6	1,1-Dichloropropene	4.93	
78-83-1	Isobutyl alcohol	6.56	
110-82-7	Cyclohexane	5.02	
71-43-2	Benzene	5.34	
107-06-2	1,2-Dichloroethane	5.32	
540-84-1	2,2,4-Trimethylpentane	5.54	
108-82-7	Methylcyclohexane	4.77	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	4.89	
78-87-5	1,2-Dichloropropane	4.90	
74-95-3	Dibromomethane	4.46	
80-62-6	Methyl methacrylate	1.75	
75-27-4	Bromodichloromethane	2.61	
110-75-8	2-Chloroethyl vinyl ether	8.17	
10061-01-5	cis-1,3-Dichloropropene	3.98	
108-10-1	4-Methyl-2-Pentanone	24.0	
108-88-3	Toluene	2.88	
10061-02-6	trans-1,3-Dichloropropene	4.54	
	Ethyl Methacrylate	2.33	
79-00-5	1,1,2-Trichloroethane	5.00	
127-18-4	Tetrachloroethene	5.21	
142-28-9	1,3-Dichloropropane	4.86	
591-78-6	2-Hexanone	24.6	
124-48-1	Dibromochloromethane	4.70	
106-93-4	1,2-Dibromoethane	4.12	
108-90-7	Chlorobenzene	5.26	
630-20-6	1,1,1,2-Tetrachloroethane	4.89	
100-41-4	Ethylbenzene	5.25	
7816-60-0	m&p-Xylene	10.6	
95-47-6	o-Xylene	5.03	
100-42-5	Styrene	4.78	
75-25-2	Bromoform	6.16	
98-82-8	Isopropylbenzene	4.77	
	trans-1,4-Dichloro-2-butene	6.03	
108-86-1	Bromobenzene	5.30	
79-34-5	1,1,2,2-Tetrachloroethane	4.99	
96-18-4	1,2,3-Trichloropropane	3.05	
103-65-1	n-Propylbenzene	5.10	
95-49-8	2-Chlorotoluene	5.45	
106-43-4	4-Chlorotoluene	5.05	
108-67-8	1,3,5-Trimethylbenzene	5.03	
98-06-6	tert-Butylbenzene	3.91	
95-63-6	1,2,4-Trimethylbenzene	5.30	
135-98-8	sec-Butylbenzene	4.83	
541-73-1	1,3-Dichlorobenzene	5.17	
99-87-6	p-Isopropyltoluene	4.95	
106-46-7	1,4-Dichlorobenzene	5.19	
95-50-1	1,2-Dichlorobenzene	5.16	
104-51-8	n-Butylbenzene	4.91	
96-12-8	1,2-Dibromo-3-chloropropane	4.84	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

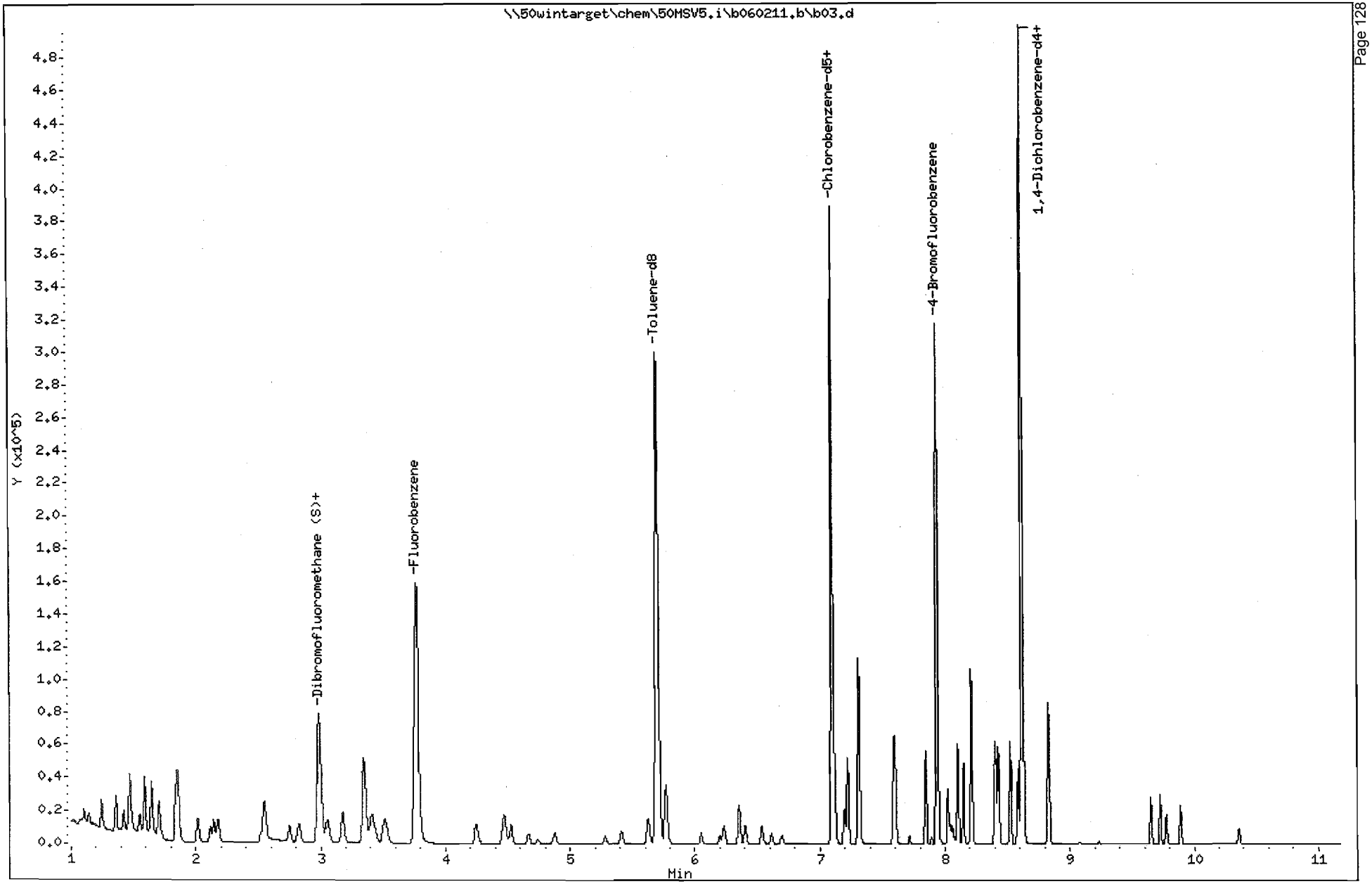
Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	4.63	
87-68-3	Hexachlorobutadiene	6.50	
91-20-3	Naphthalene	4.39	
87-61-6	1,2,3-Trichlorobenzene	4.69	
	2,methyl-naphthalene	7.77	
1868-53-7	Dibromofluoromethane (S)	51.8	
2037-26-5	Toluene-d8	50.0	
460-00-4	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b03.d
Date : 02-JUN-2011 15:59
Client ID: 5ppb
Sample Info: 5ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b03.d

Date : 02-JUN-2011 15:59

Client ID: 5ppb

Instrument: 50MSV5.i

Sample Info: 5ppb

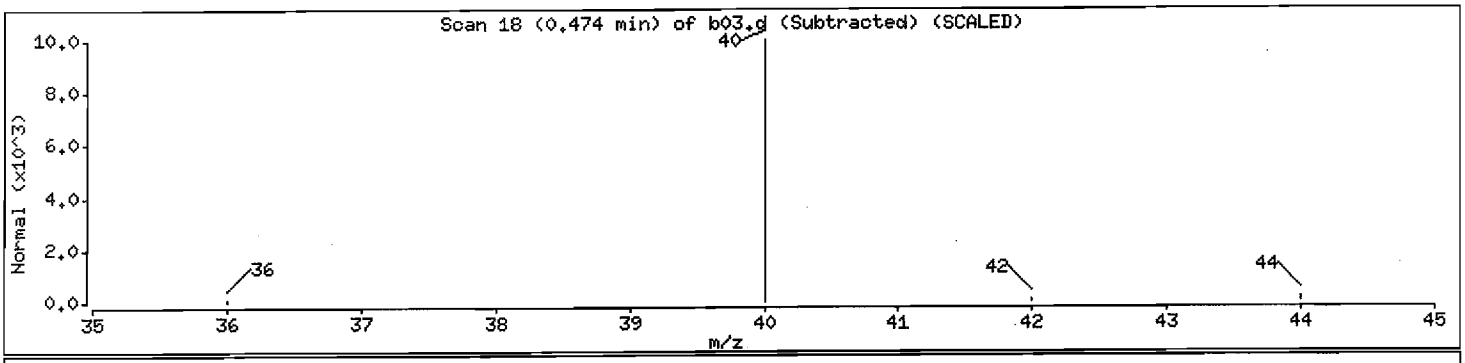
Purge Volume: 5.0

Operator: heb

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b04.d
Lab Smp Id: 10ppb Client Smp ID: 10ppb
Inj Date : 02-JUN-2011 16:36
Operator : heb Inst ID: 50MSV5.i
Smp Info : 10ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison Quant Type: ISTD
Cal Date : 31-MAY-2011 19:19 Cal File: b08cal.d
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.850	0.850	(0.226)	15368	10.0000	10.0
2 Chloromethane	50	0.929	0.928	(0.246)	13883	10.0000	9.15
3 Vinyl Chloride	62	0.970	0.970	(0.258)	10164	10.0000	9.74
4 Bromomethane	94	1.101	1.101	(0.292)	6334	10.0000	8.60
139 Methyl Acetate	43	1.645	1.645	(0.437)	2907	10.0000	10.3(M)
5 Chloroethane	64	1.138	1.138	(0.302)	5848	10.0000	9.64
6 Trichlorofluoromethane	101	1.242	1.247	(0.330)	19264	10.0000	9.79
7 Diethyl ether	74	1.357	1.357	(0.360)	3556	10.0000	9.42
8 Acrolein	56	1.420	1.420	(0.377)	12088	200.000	185
9 1,1-Dichloroethene	96	1.467	1.472	(0.389)	8992	10.0000	9.58
10 1,1,2trichlorotrifluoroethane	101	1.462	1.462	(0.388)	10792	10.0000	9.73
11 Acetone	43	1.488	1.488	(0.395)	6961	50.0000	47.8
12 Iodomethane	142	1.551	1.551	(0.412)	24269	20.0000	16.0
13 Carbon Disulfide	76	1.588	1.587	(0.421)	59905	20.0000	18.1
142 Acetonitrile	39	1.640	1.640	(0.435)	19361	10.0000	10.1
14 allyl chloride	41	1.640	1.640	(0.435)	26167	20.0000	20.9
15 Methylene Chloride	84	1.703	1.702	(0.452)	11100	10.0000	7.70
16 Acrylonitrile	53	1.839	1.838	(0.488)	30690	200.000	208
17 tert-Butyl Alcohol	59	1.755	1.750	(0.466)	530	20.0000	14.2(QM)
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.492)	10028	10.0000	10.0
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.492)	33145	20.0000	18.4
20 n-Hexane	57	2.016	2.016	(0.535)	12113	10.0000	9.23(M)
21 1,1-Dichloroethane	63	2.116	2.116	(0.561)	18151	10.0000	9.80

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
23 Vinyl Acetate	43	2.142	2.142	(0.568)	37508	40.0000	34.7
143 Chloroprene	53	2.179	2.178	(0.578)	16576	10.0000	9.78
24 2,2-Dichloropropane	77	2.545	2.545	(0.675)	13382	10.0000	9.34
25 1,2-Dichloroethene (cis)	96	2.545	2.545	(0.675)	10280	10.0000	10.0
26 2-Butanone	43	2.566	2.565	(0.681)	9394	50.0000	50.6(M)
27 Propionitrile	54	2.618	2.618	(0.695)	95	10.0000	7.57(QM)
144 Methacrylonitrile	41	2.754	2.748	(0.731)	2975	50.0000	54.9
28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	11397	10.0000	9.94
29 Bromochloromethane	49	2.749	2.748	(0.729)	6638	10.0000	8.42
30 Tetrahydrofuran	42	2.806	2.806	(0.745)	1783	10.0000	8.38(M)
31 Chloroform	83	2.827	2.827	(0.750)	19496	10.0000	9.91
$ 32 Dibromofluoromethane (S)	113	2.979	2.984	(0.790)	53920	50.0000	51.8
33 1,1,1-Trichloroethane	97	3.005	3.000	(0.797)	16499	10.0000	9.53
35 Carbon Tetrachloride	117	3.172	3.172	(0.842)	13228	10.0000	7.17
36 1,1-Dichloropropene	75	3.178	3.177	(0.843)	13839	10.0000	9.47
37 Isobutyl alcohol	43	3.512	3.559	(0.932)	7175	10.0000	10.6(M)
140 Cyclohexane	56	3.052	3.057	(0.810)	15348	10.0000	9.43
38 Benzene	78	3.408	3.408	(0.904)	35751	10.0000	9.89
39 1,2-Dichloroethane	62	3.434	3.439	(0.911)	14060	10.0000	11.1(M)
138 2,2,4-Trimethylpentane	57	3.518	3.517	(0.933)	40499	10.0000	10.4
141 Methylcyclohexane	55	4.469	4.469	(1.186)	15564	10.0000	9.37
* 40 Fluorobenzene	96	3.769	3.768	(1.000)	206300	50.0000	
41 Trichloroethene	95	4.245	4.244	(1.126)	11297	10.0000	9.49
42 1,2-Dichloropropane	63	4.522	4.527	(1.200)	10814	10.0000	9.92(M)
43 Dibromomethane	93	4.663	4.663	(1.237)	6033	10.0000	9.79
44 Methyl methacrylate	69	4.741	4.741	(1.258)	3025	10.0000	6.16(M)
45 Bromodichloromethane	83	4.877	4.877	(1.294)	12796	10.0000	7.43(M)
46 2-Chloroethyl vinyl ether	63	5.280	5.280	(0.744)	6301	20.0000	15.5
47 cis-1,3-Dichloropropene	75	5.411	5.411	(0.763)	12898	10.0000	8.20
48 4-Methyl-2-Pentanone	43	5.625	5.625	(0.793)	27918	50.0000	46.8
$ 49 Toluene-d8	98	5.699	5.698	(0.803)	218301	50.0000	50.6
50 Toluene	91	5.767	5.772	(0.813)	51988	10.0000	7.83
51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.853)	9151	10.0000	8.08
52 Ethyl Methacrylate	69	6.195	6.200	(0.873)	6823	10.0000	6.59(M)
53 1,1,2-Trichloroethane	83	6.232	6.237	(0.878)	6813	10.0000	10.0
54 Tetrachloroethene	166	6.352	6.357	(0.895)	13814	10.0000	9.62
55 1,3-Dichloropropane	76	6.405	6.404	(0.903)	13994	10.0000	10.0
56 2-Hexanone	43	6.535	6.535	(0.921)	18229	50.0000	45.7
57 Dibromochloromethane	129	6.609	6.614	(0.931)	8225	10.0000	8.71
58 1,2-Dibromoethane	107	6.692	6.697	(0.943)	7540	10.0000	8.75
* 59 Chlorobenzene-d5	117	7.095	7.100	(1.000)	168767	50.0000	
60 Chlorobenzene	112	7.121	7.121	(1.004)	33781	10.0000	9.84
61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.014)	8983	10.0000	8.79
62 Ethylbenzene	106	7.221	7.220	(1.018)	17574	10.0000	9.74
63 m&p-Xylene	106	7.309	7.314	(1.030)	45185	20.0000	19.8
65 o-Xylene	106	7.592	7.592	(1.070)	20868	10.0000	10.0
66 Styrene	104	7.602	7.602	(1.072)	34423	10.0000	9.79
67 Bromoform	173	7.717	7.717	(0.896)	3816	10.0000	9.49
68 Isopropylbenzene	105	7.843	7.843	(1.105)	52059	10.0000	9.30
69 trans-1,4-Dichloro-2-butene	53	8.073	8.078	(1.138)	1873	10.0000	9.08(QM)
$ 70 4-Bromofluorobenzene	95	7.932	7.937	(1.118)	77911	50.0000	51.5
71 Bromobenzene	77	8.021	8.021	(1.130)	19667	10.0000	9.77
72 1,1,2,2-Tetrachloroethane	83	8.042	8.041	(0.933)	8761	10.0000	9.58(M)
73 1,2,3-Trichloropropane	75	8.057	8.062	(0.935)	8450	10.0000	7.36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.099	8.104	(0.940)	65661	10.0000	9.69
75 2-Chlorotoluene	91	8.146	8.146	(0.945)	38603	10.0000	10.3
76 4-Chlorotoluene	126	8.214	8.214	(0.953)	13335	10.0000	10.0
77 1,3,5-Trimethylbenzene	105	8.209	8.209	(0.953)	43223	10.0000	9.60
78 tert-Butylbenzene	119	8.397	8.402	(0.975)	45080	10.0000	8.00
79 1,2,4-Trimethylbenzene	105	8.424	8.429	(0.978)	44362	10.0000	10.1
80 sec-Butylbenzene	105	8.523	8.523	(0.989)	57350	10.0000	9.31
81 1,3-Dichlorobenzene	146	8.580	8.580	(0.996)	24052	10.0000	9.71
* 82 1,4-Dichlorobenzene-d4	152	8.617	8.622	(1.000)	85634	50.0000	
83 p-Isopropyltoluene	119	8.607	8.606	(0.999)	47759	10.0000	9.39
84 1,4-Dichlorobenzene	146	8.633	8.633	(1.002)	24332	10.0000	9.44
85 1,2-Dichlorobenzene	146	8.831	8.836	(1.025)	21157	10.0000	9.43
86 n-Butylbenzene	91	8.826	8.826	(1.024)	44547	10.0000	9.20
87 1,2-Dibromo-3-chloropropane	155	9.239	9.239	(1.072)	687	10.0000	8.86(M)
88 1,2,4-Trichlorobenzene	180	9.647	9.647	(1.120)	12965	10.0000	8.59
89 Hexachlorobutadiene	225	9.726	9.726	(1.129)	8344	10.0000	9.72
90 Naphthalene	128	9.773	9.767	(1.134)	21336	10.0000	8.61
91 1,2,3-Trichlorobenzene	180	9.888	9.888	(1.147)	11413	10.0000	8.61
92 2,methyl-naphthalene	142	10.359	10.358	(1.202)	10830	10.0000	10.3

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b04.d
Lab Smp Id: 10ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: 10ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	177446	88723	354892	206300	16.26
59 Chlorobenzene-d5	163145	81573	326290	168767	3.45
82 1,4-Dichlorobenze	90939	45470	181878	85634	-5.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.77	0.00
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	-0.07
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	-0.06

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	10.0	
74-87-3	Chloromethane	9.15	
75-01-4	Vinyl Chloride	9.74	
74-83-9	Bromomethane	8.60	
79-20-9	Methyl Acetate	10.3	
75-00-3	Chloroethane	9.64	
75-69-4	Trichlorofluoromethane	9.79	
60-29-7	Diethyl ether	9.42	
107-02-8	Acrolein	185	
75-35-4	1,1-Dichloroethene	9.58	
76-13-1	1,1,2trichlorotrifluoroethan	9.73	
67-64-1	Acetone	47.8	
	Iodomethane	16.0	
75-15-0	Carbon Disulfide	18.1	
75-05-8	Acetonitrile	10.1	
107-05-1	allyl chloride	20.9	
75-09-2	Methylene Chloride	7.70	
107-13-1	Acrylonitrile	208	
75-65-0	tert-Butyl Alcohol	14.2	
156-60-5	1,2-Dichloroethene (trans)	10.0	
1634-04-4	Methyl-tert-butyl ether	18.4	
	n-Hexane	9.23	
75-34-3	1,1-Dichloroethane	9.80	
108-05-4	Vinyl Acetate	34.7	
126-99-8	Chloroprene	9.78	
594-20-7	2,2-Dichloropropane	9.34	
156-59-2	1,2-Dichloroethene (cis)	10.0	
78-93-3	2-Butanone	50.6	
107-12-0	Propionitrile	7.57	
126-98-7	Methacrylonitrile	54.9	
354-23-4	1,2-dichlorotrifluoroethane	9.94	
74-97-5	Bromochloromethane	8.42	
	Tetrahydrofuran	8.38	
67-66-3	Chloroform	9.91	
71-55-6	1,1,1-Trichloroethane	9.53	
56-23-5	Carbon Tetrachloride	7.17	
563-58-6	1,1-Dichloropropene	9.47	
78-83-1	Isobutyl alcohol	10.6	
110-82-7	Cyclohexane	9.43	
71-43-2	Benzene	9.89	
107-06-2	1,2-Dichloroethane	11.1	
540-84-1	2,2,4-Trimethylpentane	10.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	9.37	
79-01-6	Trichloroethene	9.49	
78-87-5	1,2-Dichloropropane	9.92	
74-95-3	Dibromomethane	9.79	
80-62-6	Methyl methacrylate	6.16	
75-27-4	Bromodichloromethane	7.43	
110-75-8	2-Chloroethyl vinyl ether	15.5	
10061-01-5	cis-1,3-Dichloropropene	8.20	
108-10-1	4-Methyl-2-Pentanone	46.8	
108-88-3	Toluene	7.83	
10061-02-6	trans-1,3-Dichloropropene	8.08	
	Ethyl Methacrylate	6.59	
79-00-5	1,1,2-Trichloroethane	10.0	
127-18-4	Tetrachloroethene	9.62	
142-28-9	1,3-Dichloropropane	10.0	
591-78-6	2-Hexanone	45.7	
124-48-1	Dibromochloromethane	8.71	
106-93-4	1,2-Dibromoethane	8.75	
108-90-7	Chlorobenzene	9.84	
630-20-6	1,1,1,2-Tetrachloroethane	8.79	
100-41-4	Ethylbenzene	9.74	
7816-60-0	m&p-Xylene	19.8	
95-47-6	o-Xylene	10.0	
100-42-5	Styrene	9.79	
75-25-2	Bromoform	9.49	
98-82-8	Isopropylbenzene	9.30	
	trans-1,4-Dichloro-2-butene	9.08	
108-86-1	Bromobenzene	9.77	
79-34-5	1,1,2,2-Tetrachloroethane	9.58	
96-18-4	1,2,3-Trichloropropane	7.36	
103-65-1	n-Propylbenzene	9.69	
95-49-8	2-Chlorotoluene	10.3	
106-43-4	4-Chlorotoluene	10.0	
108-67-8	1,3,5-Trimethylbenzene	9.60	
98-06-6	tert-Butylbenzene	8.00	
95-63-6	1,2,4-Trimethylbenzene	10.1	
135-98-8	sec-Butylbenzene	9.31	
541-73-1	1,3-Dichlorobenzene	9.71	
99-87-6	p-Isopropyltoluene	9.39	
106-46-7	1,4-Dichlorobenzene	9.44	
95-50-1	1,2-Dichlorobenzene	9.43	
104-51-8	n-Butylbenzene	9.20	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

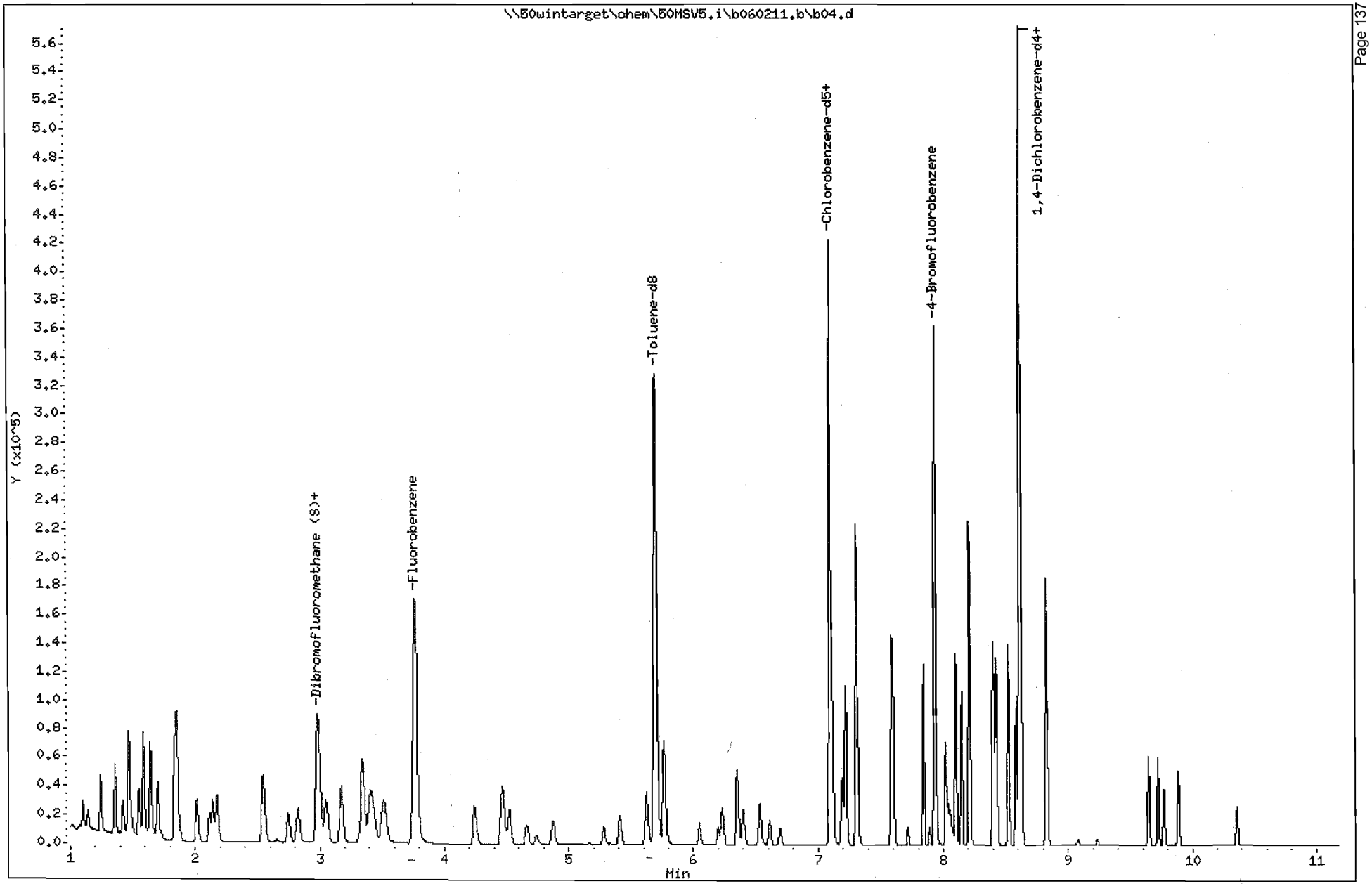
Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	8.86	
120-82-1	1,2,4-Trichlorobenzene	8.59	
87-68-3	Hexachlorobutadiene	9.72	
91-20-3	Naphthalene	8.61	
87-61-6	1,2,3-Trichlorobenzene	8.61	
	2,methyl-naphthalene	10.3	
1868-53-7	Dibromofluoromethane (S)	51.8	
2037-26-5	Toluene-d8	50.6	
460-00-4	4-Bromofluorobenzene	51.5	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b04.d
Date : 02-JUN-2011 16:36
Client ID: 10ppb
Sample Info: 10ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b04.d

Date : 02-JUN-2011 16:36

Client ID: 10ppb

Instrument: 50MSV5.i

Sample Info: 10ppb

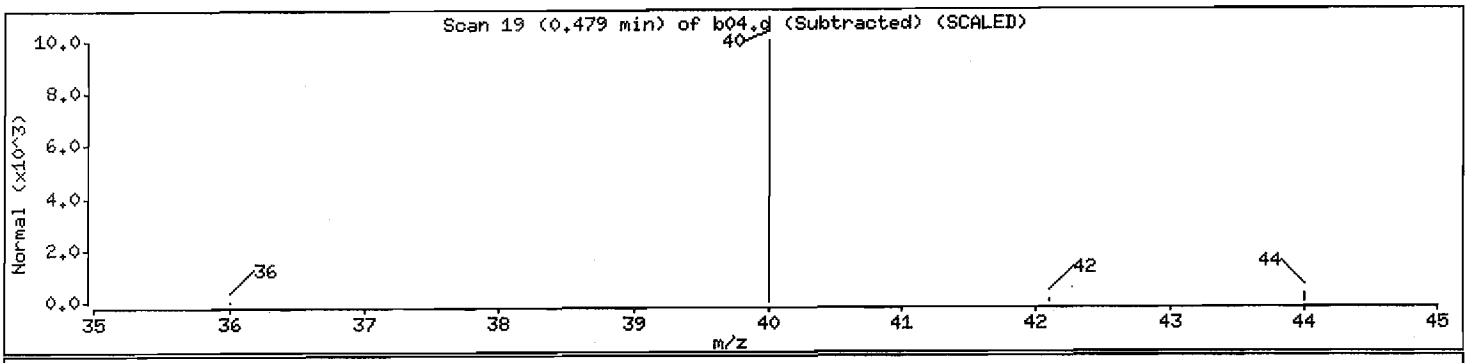
Purge Volume: 5.0

Operator: heb

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b05.d
Lab Smp Id: 20ppb Client Smp ID: 20ppb
Inj Date : 02-JUN-2011 17:13
Operator : heb Inst ID: 50MSV5.i
Smp Info : 20ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison Quant Type: ISTD
Cal Date : 31-MAY-2011 19:19 Cal File: b08cal.d
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.850	0.850	(0.226)	35326	20.0000	23.4
2 Chloromethane	50	0.929	0.928	(0.247)	30702	20.0000	20.5
3 Vinyl Chloride	62	0.970	0.970	(0.258)	23761	20.0000	23.0
4 Bromomethane	94	1.101	1.101	(0.292)	15070	20.0000	20.6
139 Methyl Acetate	43	1.645	1.645	(0.437)	5988	20.0000	21.4
5 Chloroethane	64	1.138	1.138	(0.302)	13532	20.0000	22.6
6 Trichlorofluoromethane	101	1.242	1.247	(0.330)	45787	20.0000	23.5
7 Diethyl ether	74	1.358	1.357	(0.360)	7431	20.0000	20.2
8 Acrolein	56	1.420	1.420	(0.377)	25900	400.000	409
9 1,1-Dichloroethene	96	1.467	1.472	(0.389)	20319	20.0000	21.9
10 1,1,2trichlorotrifluoroethane	101	1.462	1.462	(0.388)	24377	20.0000	22.2
11 Acetone	43	1.488	1.488	(0.395)	13169	100.000	104
12 Iodomethane	142	1.551	1.551	(0.412)	67946	40.0000	40.6
13 Carbon Disulfide	76	1.588	1.587	(0.421)	133141	40.0000	42.5
142 Acetonitrile	39	1.640	1.640	(0.435)	42512	20.0000	22.6
14 allyl chloride	41	1.640	1.640	(0.435)	57208	40.0000	46.3
15 Methylene Chloride	84	1.703	1.702	(0.452)	20906	20.0000	20.9
16 Acrylonitrile	53	1.839	1.838	(0.488)	61709	400.000	424
17 tert-Butyl Alcohol	59	1.750	1.750	(0.464)	1385	40.0000	44.5(Q)
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.492)	21876	20.0000	22.2
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.492)	70902	40.0000	40.2
20 n-Hexane	57	2.017	2.016	(0.535)	27776	20.0000	21.4
21 1,1-Dichloroethane	63	2.116	2.116	(0.562)	42286	20.0000	23.1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
23 Vinyl Acetate	43	2.142	2.142	(0.568)	92610	80.0000	85.5
143 Chloroprene	53	2.173	2.178	(0.577)	39619	20.0000	23.7
24 2,2-Dichloropropane	77	2.545	2.545	(0.675)	32286	20.0000	22.8
25 1,2-Dichloroethene (cis)	96	2.545	2.545	(0.675)	22936	20.0000	22.6
26 2-Butanone	43	2.566	2.565	(0.681)	21905	100.000	119
27 Propionitrile	54	2.613	2.618	(0.693)	952	20.0000	20.4(QM)
144 Methacrylonitrile	41	2.749	2.748	(0.729)	6125	100.000	114(M)
28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	24288	20.0000	21.4
29 Bromochloromethane	49	2.749	2.748	(0.729)	16190	20.0000	24.2
30 Tetrahydrofuran	42	2.806	2.806	(0.745)	3319	20.0000	24.1
31 Chloroform	83	2.827	2.827	(0.750)	44014	20.0000	22.6
$ 32 Dibromofluoromethane (S)	113	2.984	2.984	(0.792)	59428	50.0000	57.8
33 1,1,1-Trichloroethane	97	3.000	3.000	(0.796)	38598	20.0000	22.6
35 Carbon Tetrachloride	117	3.172	3.172	(0.842)	33974	20.0000	20.7
36 1,1-Dichloropropene	75	3.178	3.177	(0.843)	33324	20.0000	23.1
37 Isobutyl alcohol	43	3.518	3.559	(0.933)	15079	20.0000	20.8
140 Cyclohexane	56	3.052	3.057	(0.810)	37749	20.0000	23.5
38 Benzene	78	3.408	3.408	(0.904)	81654	20.0000	22.9
39 1,2-Dichloroethane	62	3.434	3.439	(0.911)	29324	20.0000	23.5
138 2,2,4-Trimethylpentane	57	3.518	3.517	(0.933)	83047	20.0000	21.6
141 Methylcyclohexane	55	4.470	4.469	(1.186)	34092	20.0000	20.8
* 40 Fluorobenzene	96	3.769	3.768	(1.000)	203803	50.0000	
41 Trichloroethene	95	4.250	4.244	(1.128)	24359	20.0000	20.7
42 1,2-Dichloropropane	63	4.527	4.527	(1.201)	21301	20.0000	19.8
43 Dibromomethane	93	4.663	4.663	(1.237)	11926	20.0000	19.6
44 Methyl methacrylate	69	4.736	4.741	(1.257)	7478	20.0000	17.3
45 Bromodichloromethane	83	4.877	4.877	(1.294)	27276	20.0000	17.9
46 2-Chloroethyl vinyl ether	63	5.280	5.280	(0.744)	15692	40.0000	32.7
47 cis-1,3-Dichloropropene	75	5.411	5.411	(0.762)	28031	20.0000	16.0
48 4-Methyl-2-Pentanone	43	5.625	5.625	(0.792)	61409	100.000	90.8
$ 49 Toluene-d8	98	5.699	5.698	(0.803)	228993	50.0000	49.2
50 Toluene	91	5.772	5.772	(0.813)	105224	20.0000	17.5
51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.852)	21989	20.0000	15.9
52 Ethyl Methacrylate	69	6.201	6.200	(0.873)	17353	20.0000	17.5(Q)
53 1,1,2-Trichloroethane	83	6.232	6.237	(0.878)	14015	20.0000	19.1
54 Tetrachloroethene	166	6.358	6.357	(0.895)	31022	20.0000	20.0
55 1,3-Dichloropropane	76	6.405	6.404	(0.902)	29411	20.0000	19.5
56 2-Hexanone	43	6.535	6.535	(0.920)	42698	100.000	91.4
57 Dibromochloromethane	129	6.614	6.614	(0.931)	16754	20.0000	15.4
58 1,2-Dibromoethane	107	6.698	6.697	(0.943)	15846	20.0000	17.1
* 59 Chlorobenzene-d5	117	7.100	7.100	(1.000)	182052	50.0000	
60 Chlorobenzene	112	7.121	7.121	(1.003)	73430	20.0000	19.8
61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.013)	20175	20.0000	16.8
62 Ethylbenzene	106	7.221	7.220	(1.017)	39752	20.0000	20.4
63 m&p-Xylene	106	7.310	7.314	(1.029)	99348	40.0000	40.3
65 o-Xylene	106	7.592	7.592	(1.069)	46116	20.0000	20.5
66 Styrene	104	7.602	7.602	(1.071)	76045	20.0000	20.0
67 Bromoform	173	7.718	7.717	(0.896)	8553	20.0000	16.1
68 Isopropylbenzene	105	7.843	7.843	(1.105)	121308	20.0000	20.1
69 trans-1,4-Dichloro-2-butene	53	8.073	8.078	(1.137)	5221	20.0000	17.8(Q)
$ 70 4-Bromofluorobenzene	95	7.932	7.937	(1.117)	82138	50.0000	50.3
71 Bromobenzene	77	8.021	8.021	(1.130)	42669	20.0000	19.6
72 1,1,2,2-Tetrachloroethane	83	8.042	8.041	(0.933)	19235	20.0000	19.3
73 1,2,3-Trichloropropane	75	8.057	8.062	(0.935)	19269	20.0000	16.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.099	8.104	(0.940)	148914	20.0000	20.2
75 2-Chlorotoluene	91	8.146	8.146	(0.945)	82208	20.0000	20.1
76 4-Chlorotoluene	126	8.214	8.214	(0.953)	29512	20.0000	20.4
77 1,3,5-Trimethylbenzene	105	8.209	8.209	(0.953)	96012	20.0000	19.6
78 tert-Butylbenzene	119	8.397	8.402	(0.975)	104506	20.0000	17.5
79 1,2,4-Trimethylbenzene	105	8.424	8.429	(0.978)	97641	20.0000	20.4
80 sec-Butylbenzene	105	8.523	8.523	(0.989)	130699	20.0000	19.4
81 1,3-Dichlorobenzene	146	8.580	8.580	(0.996)	53243	20.0000	19.7
* 82 1,4-Dichlorobenzene-d4	152	8.617	8.622	(1.000)	93378	50.0000	
83 p-Isopropyltoluene	119	8.607	8.606	(0.999)	107929	20.0000	19.4
84 1,4-Dichlorobenzene	146	8.633	8.633	(1.002)	54312	20.0000	19.3
85 1,2-Dichlorobenzene	146	8.832	8.836	(1.025)	47718	20.0000	19.5
86 n-Butylbenzene	91	8.826	8.826	(1.024)	102773	20.0000	19.5
87 1,2-Dibromo-3-chloropropane	155	9.240	9.239	(1.072)	1745	20.0000	17.1
88 1,2,4-Trichlorobenzene	180	9.647	9.647	(1.120)	30729	20.0000	18.7
89 Hexachlorobutadiene	225	9.726	9.726	(1.129)	18921	20.0000	17.2
90 Naphthalene	128	9.773	9.767	(1.134)	51362	20.0000	19.0
91 1,2,3-Trichlorobenzene	180	9.888	9.888	(1.147)	27198	20.0000	18.8
92 2,methyl-naphthalene	142	10.359	10.358	(1.202)	30073	20.0000	17.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b05.d
Lab Smp Id: 20ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: 20ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	177446	88723	354892	203803	14.85
59 Chlorobenzene-d5	163145	81573	326290	182052	11.59
82 1,4-Dichlorobenze	90939	45470	181878	93378	2.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.77	0.00
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	0.00
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	-0.06

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	23.4	
74-87-3	Chloromethane	20.5	
75-01-4	Vinyl Chloride	23.0	
74-83-9	Bromomethane	20.6	
79-20-9	Methyl Acetate	21.4	
75-00-3	Chloroethane	22.6	
75-69-4	Trichlorofluoromethane	23.5	
60-29-7	Diethyl ether	20.2	
107-02-8	Acrolein	409	
75-35-4	1,1-Dichloroethene	21.9	
76-13-1	1,1,2trichlorotrifluoroethan	22.2	
67-64-1	Acetone	104	
	Iodomethane	40.6	
75-15-0	Carbon Disulfide	42.5	
75-05-8	Acetonitrile	22.6	
107-05-1	allyl chloride	46.3	
75-09-2	Methylene Chloride	20.9	
107-13-1	Acrylonitrile	424	
75-65-0	tert-Butyl Alcohol	44.5	
156-60-5	1,2-Dichloroethene (trans)	22.2	
1634-04-4	Methyl-tert-butyl ether	40.2	
	n-Hexane	21.4	
75-34-3	1,1-Dichloroethane	23.1	
108-05-4	Vinyl Acetate	85.5	
126-99-8	Chloroprene	23.7	
594-20-7	2,2-Dichloropropane	22.8	
156-59-2	1,2-Dichloroethene (cis)	22.6	
78-93-3	2-Butanone	119	
107-12-0	Propionitrile	20.4	
126-98-7	Methacrylonitrile	114	
354-23-4	1,2-dichlorotrifluoroethane	21.4	
74-97-5	Bromochloromethane	24.2	
	Tetrahydrofuran	24.1	
67-66-3	Chloroform	22.6	
71-55-6	1,1,1-Trichloroethane	22.6	
56-23-5	Carbon Tetrachloride	20.7	
563-58-6	1,1-Dichloropropene	23.1	
78-83-1	Isobutyl alcohol	20.8	
110-82-7	Cyclohexane	23.5	
71-43-2	Benzene	22.9	
107-06-2	1,2-Dichloroethane	23.5	
540-84-1	2,2,4-Trimethylpentane	21.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	20.8	
79-01-6	Trichloroethene	20.7	
78-87-5	1,2-Dichloropropane	19.8	
74-95-3	Dibromomethane	19.6	
80-62-6	Methyl methacrylate	17.3	
75-27-4	Bromodichloromethane	17.9	
110-75-8	2-Chloroethyl vinyl ether	32.7	
10061-01-5	cis-1,3-Dichloropropene	16.0	
108-10-1	4-Methyl-2-Pentanone	90.8	
108-88-3	Toluene	17.5	
10061-02-6	trans-1,3-Dichloropropene	15.9	
	Ethyl Methacrylate	17.5	
79-00-5	1,1,2-Trichloroethane	19.1	
127-18-4	Tetrachloroethene	20.0	
142-28-9	1,3-Dichloropropane	19.5	
591-78-6	2-Hexanone	91.4	
124-48-1	Dibromochloromethane	15.4	
106-93-4	1,2-Dibromoethane	17.1	
108-90-7	Chlorobenzene	19.8	
630-20-6	1,1,1,2-Tetrachloroethane	16.8	
100-41-4	Ethylbenzene	20.4	
7816-60-0	m&p-Xylene	40.3	
95-47-6	o-Xylene	20.5	
100-42-5	Styrene	20.0	
75-25-2	Bromoform	16.1	
98-82-8	Isopropylbenzene	20.1	
	trans-1,4-Dichloro-2-butene	17.8	
108-86-1	Bromobenzene	19.6	
79-34-5	1,1,2,2-Tetrachloroethane	19.3	
96-18-4	1,2,3-Trichloropropane	16.7	
103-65-1	n-Propylbenzene	20.2	
95-49-8	2-Chlorotoluene	20.1	
106-43-4	4-Chlorotoluene	20.4	
108-67-8	1,3,5-Trimethylbenzene	19.6	
98-06-6	tert-Butylbenzene	17.5	
95-63-6	1,2,4-Trimethylbenzene	20.4	
135-98-8	sec-Butylbenzene	19.4	
541-73-1	1,3-Dichlorobenzene	19.7	
99-87-6	p-Isopropyltoluene	19.4	
106-46-7	1,4-Dichlorobenzene	19.3	
95-50-1	1,2-Dichlorobenzene	19.5	
104-51-8	n-Butylbenzene	19.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

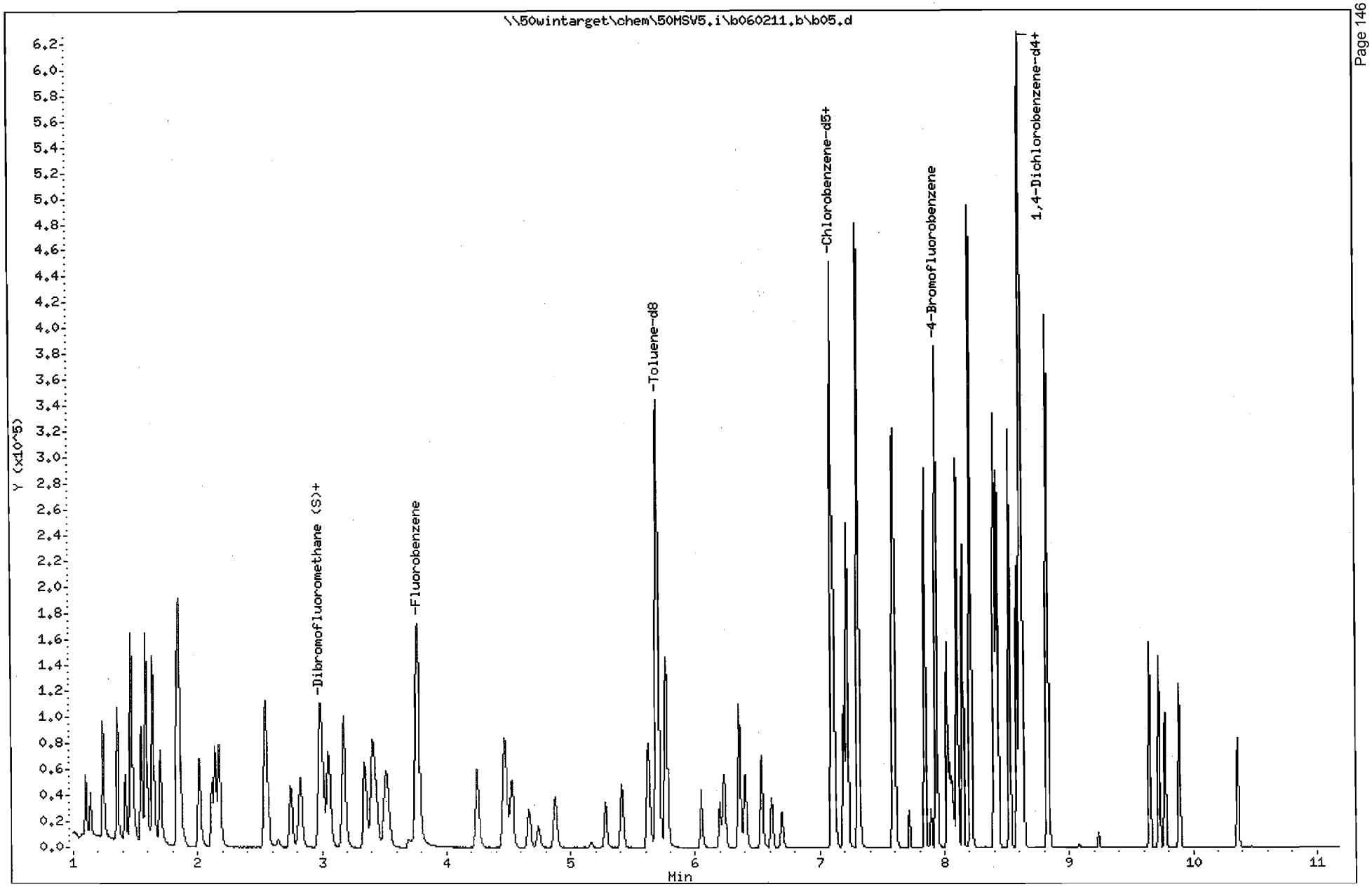
Client SDG: b060211.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	17.1	
120-82-1	1,2,4-Trichlorobenzene	18.7	
87-68-3	Hexachlorobutadiene	17.2	
91-20-3	Naphthalene	19.0	
87-61-6	1,2,3-Trichlorobenzene	18.8	
	2,methyl-naphthalene	17.5	
1868-53-7	Dibromofluoromethane (S)	57.8	
2037-26-5	Toluene-d8	49.2	
460-00-4	4-Bromofluorobenzene	50.3	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b05.d
Date : 02-JUN-2011 17:13
Client ID: 20ppb
Sample Info: 20ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b05.d

Date : 02-JUN-2011 17:13

Client ID: 20ppb

Instrument: 50MSV5.i

Sample Info: 20ppb

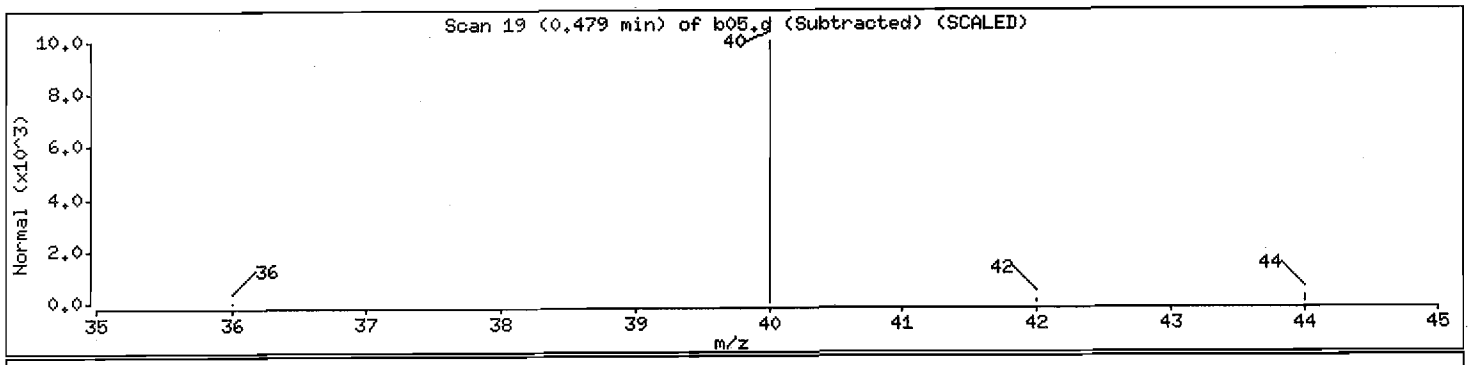
Purge Volume: 5.0

Operator: heb

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b06.d
Lab Smp Id: 50ppb
Client Smp ID: 50ppb
Inj Date : 02-JUN-2011 17:50
Operator : heb
Inst ID: 50MSV5.i
Smp Info : 50ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison
Quant Type: ISTD
Cal Date : 31-MAY-2011 19:19
Cal File: b08cal.d
Als bottle: 14
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.850	0.850	(0.226)	83431	50.0000	54.8
2 Chloromethane	50	0.928	0.928	(0.247)	73225	50.0000	48.5
3 Vinyl Chloride	62	0.965	0.970	(0.257)	58633	50.0000	56.4
4 Bromomethane	94	1.101	1.101	(0.293)	40868	50.0000	55.4
139 Methyl Acetate	43	1.645	1.645	(0.437)	15404	50.0000	54.6
5 Chloroethane	64	1.138	1.138	(0.302)	32184	50.0000	53.3
6 Trichlorofluoromethane	101	1.242	1.247	(0.330)	111744	50.0000	57.0
7 Diethyl ether	74	1.357	1.357	(0.361)	19994	50.0000	54.3
8 Acrolein	56	1.420	1.420	(0.377)	67154	1000.00	1060
9 1,1-Dichloroethene	96	1.467	1.472	(0.390)	51356	50.0000	55.0
10 1,1,2trichlorotrifluoroethane	101	1.462	1.462	(0.389)	59958	50.0000	54.3
11 Acetone	43	1.488	1.488	(0.396)	31886	250.000	269
12 Iodomethane	142	1.551	1.551	(0.412)	193597	100.000	110
13 Carbon Disulfide	76	1.587	1.587	(0.422)	331116	100.000	107
142 Acetonitrile	39	1.640	1.640	(0.436)	103711	50.0000	54.6
14 allyl chloride	41	1.640	1.640	(0.436)	138914	100.000	112
15 Methylene Chloride	84	1.703	1.702	(0.452)	49746	50.0000	58.7
16 Acrylonitrile	53	1.839	1.838	(0.489)	164545	1000.00	1120
17 tert-Butyl Alcohol	59	1.750	1.750	(0.465)	3581	100.000	121
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.493)	54897	50.0000	55.2
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.493)	188931	100.000	107
20 n-Hexane	57	2.016	2.016	(0.536)	73442	50.0000	56.2
21 1,1-Dichloroethane	63	2.110	2.116	(0.561)	98171	50.0000	53.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
23 Vinyl Acetate	43	2.142	2.142	(0.569)	230105	200.000	210
143 Chloroprene	53	2.178	2.178	(0.579)	93905	50.0000	55.6
24 2,2-Dichloropropane	77	2.545	2.545	(0.676)	77375	50.0000	54.2
25 1,2-Dichloroethene (cis)	96	2.545	2.545	(0.676)	55107	50.0000	53.9
26 2-Butanone	43	2.566	2.565	(0.682)	50805	250.000	275
27 Propionitrile	54	2.618	2.618	(0.696)	3143	50.0000	53.0(Q)
144 Methacrylonitrile	41	2.749	2.748	(0.730)	14556	250.000	270
28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	61651	50.0000	54.0
29 Bromochloromethane	49	2.749	2.748	(0.730)	34947	50.0000	54.4
30 Tetrahydrofuran	42	2.806	2.806	(0.746)	6837	50.0000	58.9
31 Chloroform	83	2.827	2.827	(0.751)	105393	50.0000	53.8
$ 32 Dibromofluoromethane (S)	113	2.984	2.984	(0.793)	51290	50.0000	49.5
33 1,1,1-Trichloroethane	97	3.000	3.000	(0.797)	93298	50.0000	54.1
35 Carbon Tetrachloride	117	3.172	3.172	(0.843)	84283	50.0000	52.9
36 1,1-Dichloropropene	75	3.172	3.177	(0.843)	80700	50.0000	55.4
37 Isobutyl alcohol	43	3.517	3.559	(0.935)	34154	50.0000	44.9
140 Cyclohexane	56	3.057	3.057	(0.812)	87173	50.0000	53.8
38 Benzene	78	3.408	3.408	(0.906)	193283	50.0000	53.7
39 1,2-Dichloroethane	62	3.434	3.439	(0.912)	69539	50.0000	55.3
138 2,2,4-Trimethylpentane	57	3.517	3.517	(0.935)	196763	50.0000	50.9
141 Methylcyclohexane	55	4.469	4.469	(1.188)	93733	50.0000	56.7
* 40 Fluorobenzene	96	3.763	3.768	(1.000)	205436	50.0000	
41 Trichloroethene	95	4.244	4.244	(1.128)	65547	50.0000	55.3
42 1,2-Dichloropropane	63	4.527	4.527	(1.203)	61729	50.0000	56.9
43 Dibromomethane	93	4.663	4.663	(1.239)	32431	50.0000	52.7
44 Methyl methacrylate	69	4.741	4.741	(1.260)	21470	50.0000	51.8
45 Bromodichloromethane	83	4.877	4.877	(1.296)	77836	50.0000	53.8
46 2-Chloroethyl vinyl ether	63	5.280	5.280	(0.744)	48158	100.000	102
47 cis-1,3-Dichloropropene	75	5.411	5.411	(0.762)	85377	50.0000	51.5
48 4-Methyl-2-Pentanone	43	5.625	5.625	(0.792)	171091	250.000	263
$ 49 Toluene-d8	98	5.698	5.698	(0.803)	221005	50.0000	51.0
50 Toluene	91	5.766	5.772	(0.812)	274898	50.0000	55.0
51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.852)	69625	50.0000	49.8
52 Ethyl Methacrylate	69	6.195	6.200	(0.873)	48610	50.0000	55.7
53 1,1,2-Trichloroethane	83	6.232	6.237	(0.878)	39101	50.0000	57.3
54 Tetrachloroethene	166	6.352	6.357	(0.895)	78673	50.0000	54.6
55 1,3-Dichloropropane	76	6.405	6.404	(0.902)	79507	50.0000	56.6
56 2-Hexanone	43	6.535	6.535	(0.920)	118121	250.000	258
57 Dibromochloromethane	129	6.614	6.614	(0.931)	54476	50.0000	50.6
58 1,2-Dibromoethane	107	6.697	6.697	(0.943)	45100	50.0000	52.2
* 59 Chlorobenzene-d5	117	7.100	7.100	(1.000)	169478	50.0000	
60 Chlorobenzene	112	7.121	7.121	(1.003)	187594	50.0000	54.4
61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.013)	59164	50.0000	49.8
62 Ethylbenzene	106	7.220	7.220	(1.017)	103286	50.0000	57.0
63 m&p-Xylene	106	7.309	7.314	(1.029)	252842	100.000	110
65 o-Xylene	106	7.592	7.592	(1.069)	121641	50.0000	58.1
66 Styrene	104	7.602	7.602	(1.071)	198532	50.0000	56.2
67 Bromoform	173	7.717	7.717	(0.896)	28386	50.0000	48.6
68 Isopropylbenzene	105	7.843	7.843	(1.105)	322154	50.0000	57.3
69 trans-1,4-Dichloro-2-butene	53	8.073	8.078	(1.137)	15462	50.0000	49.0
$ 70 4-Bromofluorobenzene	95	7.932	7.937	(1.117)	76480	50.0000	50.3
71 Bromobenzene	77	8.021	8.021	(1.130)	112713	50.0000	55.7
72 1,1,2,2-Tetrachloroethane	83	8.042	8.041	(0.933)	53563	50.0000	56.9
73 1,2,3-Trichloropropane	75	8.057	8.062	(0.935)	55114	50.0000	52.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.099	8.104	(0.940)	386519	50.0000	55.4
75 2-Chlorotoluene	91	8.146	8.146	(0.945)	213606	50.0000	55.4
76 4-Chlorotoluene	126	8.214	8.214	(0.953)	79615	50.0000	58.2
77 1,3,5-Trimethylbenzene	105	8.209	8.209	(0.953)	260264	50.0000	56.1
78 tert-Butylbenzene	119	8.402	8.402	(0.975)	289090	50.0000	51.9
79 1,2,4-Trimethylbenzene	105	8.423	8.429	(0.978)	257056	50.0000	56.8
80 sec-Butylbenzene	105	8.523	8.523	(0.989)	355025	50.0000	56.0
81 1,3-Dichlorobenzene	146	8.580	8.580	(0.996)	140598	50.0000	55.1
* 82 1,4-Dichlorobenzene-d4	152	8.617	8.622	(1.000)	88181	50.0000	
83 p-Isopropyltoluene	119	8.606	8.606	(0.999)	292873	50.0000	55.9
84 1,4-Dichlorobenzene	146	8.633	8.633	(1.002)	143276	50.0000	54.0
85 1,2-Dichlorobenzene	146	8.831	8.836	(1.025)	128040	50.0000	55.4
86 n-Butylbenzene	91	8.826	8.826	(1.024)	277839	50.0000	55.8
87 1,2-Dibromo-3-chloropropane	155	9.239	9.239	(1.072)	5217	50.0000	48.2
88 1,2,4-Trichlorobenzene	180	9.647	9.647	(1.120)	82600	50.0000	53.2
89 Hexachlorobutadiene	225	9.726	9.726	(1.129)	52534	50.0000	45.0
90 Naphthalene	128	9.773	9.767	(1.134)	138489	50.0000	54.2
91 1,2,3-Trichlorobenzene	180	9.888	9.888	(1.147)	70391	50.0000	51.6
92 2,methyl-naphthalene	142	10.359	10.358	(1.202)	86939	50.0000	42.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b06.d
Lab Smp Id: 50ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: 50ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	177446	88723	354892	205436	15.77
59 Chlorobenzene-d5	163145	81573	326290	169478	3.88
82 1,4-Dichlorobenze	90939	45470	181878	88181	-3.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.76	-0.14
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	-0.00
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	-0.06

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	54.8	
74-87-3	Chloromethane	48.5	
75-01-4	Vinyl Chloride	56.4	
74-83-9	Bromomethane	55.4	
79-20-9	Methyl Acetate	54.6	
75-00-3	Chloroethane	53.3	
75-69-4	Trichlorofluoromethane	57.0	
60-29-7	Diethyl ether	54.3	
107-02-8	Acrolein	1060	
75-35-4	1,1-Dichloroethene	55.0	
76-13-1	1,1,2trichlorotrifluoroethan	54.3	
67-64-1	Acetone	269	
	Iodomethane	110	
75-15-0	Carbon Disulfide	107	
75-05-8	Acetonitrile	54.6	
107-05-1	allyl chloride	112	
75-09-2	Methylene Chloride	58.7	
107-13-1	Acrylonitrile	1120	
75-65-0	tert-Butyl Alcohol	121	
156-60-5	1,2-Dichloroethene (trans)	55.2	
1634-04-4	Methyl-tert-butyl ether	107	
	n-Hexane	56.2	
75-34-3	1,1-Dichloroethane	53.2	
108-05-4	Vinyl Acetate	210	
126-99-8	Chloroprene	55.6	
594-20-7	2,2-Dichloropropane	54.2	
156-59-2	1,2-Dichloroethene (cis)	53.9	
78-93-3	2-Butanone	275	
107-12-0	Propionitrile	53.0	
126-98-7	Methacrylonitrile	270	
354-23-4	1,2-dichlorotrifluoroethane	54.0	
74-97-5	Bromochloromethane	54.4	
	Tetrahydrofuran	58.9	
67-66-3	Chloroform	53.8	
71-55-6	1,1,1-Trichloroethane	54.1	
56-23-5	Carbon Tetrachloride	52.9	
563-58-6	1,1-Dichloropropene	55.4	
78-83-1	Isobutyl alcohol	44.9	
110-82-7	Cyclohexane	53.8	
71-43-2	Benzene	53.7	
107-06-2	1,2-Dichloroethane	55.3	
540-84-1	2,2,4-Trimethylpentane	50.9	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	56.7	
79-01-6	Trichloroethene	55.3	
78-87-5	1,2-Dichloropropane	56.9	
74-95-3	Dibromomethane	52.7	
80-62-6	Methyl methacrylate	51.8	
75-27-4	Bromodichloromethane	53.8	
110-75-8	2-Chloroethyl vinyl ether	102	
10061-01-5	cis-1,3-Dichloropropene	51.5	
108-10-1	4-Methyl-2-Pentanone	263	
108-88-3	Toluene	55.0	
10061-02-6	trans-1,3-Dichloropropene	49.8	
	Ethyl Methacrylate	55.7	
79-00-5	1,1,2-Trichloroethane	57.3	
127-18-4	Tetrachloroethene	54.6	
142-28-9	1,3-Dichloropropane	56.6	
591-78-6	2-Hexanone	258	
124-48-1	Dibromochloromethane	50.6	
106-93-4	1,2-Dibromoethane	52.2	
108-90-7	Chlorobenzene	54.4	
630-20-6	1,1,1,2-Tetrachloroethane	49.8	
100-41-4	Ethylbenzene	57.0	
7816-60-0	m&p-Xylene	110	
95-47-6	o-Xylene	58.1	
100-42-5	Styrene	56.2	
75-25-2	Bromoform	48.6	
98-82-8	Isopropylbenzene	57.3	
	trans-1,4-Dichloro-2-butene	49.0	
108-86-1	Bromobenzene	55.7	
79-34-5	1,1,2,2-Tetrachloroethane	56.9	
96-18-4	1,2,3-Trichloropropane	52.8	
103-65-1	n-Propylbenzene	55.4	
95-49-8	2-Chlorotoluene	55.4	
106-43-4	4-Chlorotoluene	58.2	
108-67-8	1,3,5-Trimethylbenzene	56.1	
98-06-6	tert-Butylbenzene	51.9	
95-63-6	1,2,4-Trimethylbenzene	56.8	
135-98-8	sec-Butylbenzene	56.0	
541-73-1	1,3-Dichlorobenzene	55.1	
99-87-6	p-Isopropyltoluene	55.9	
106-46-7	1,4-Dichlorobenzene	54.0	
95-50-1	1,2-Dichlorobenzene	55.4	
104-51-8	n-Butylbenzene	55.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

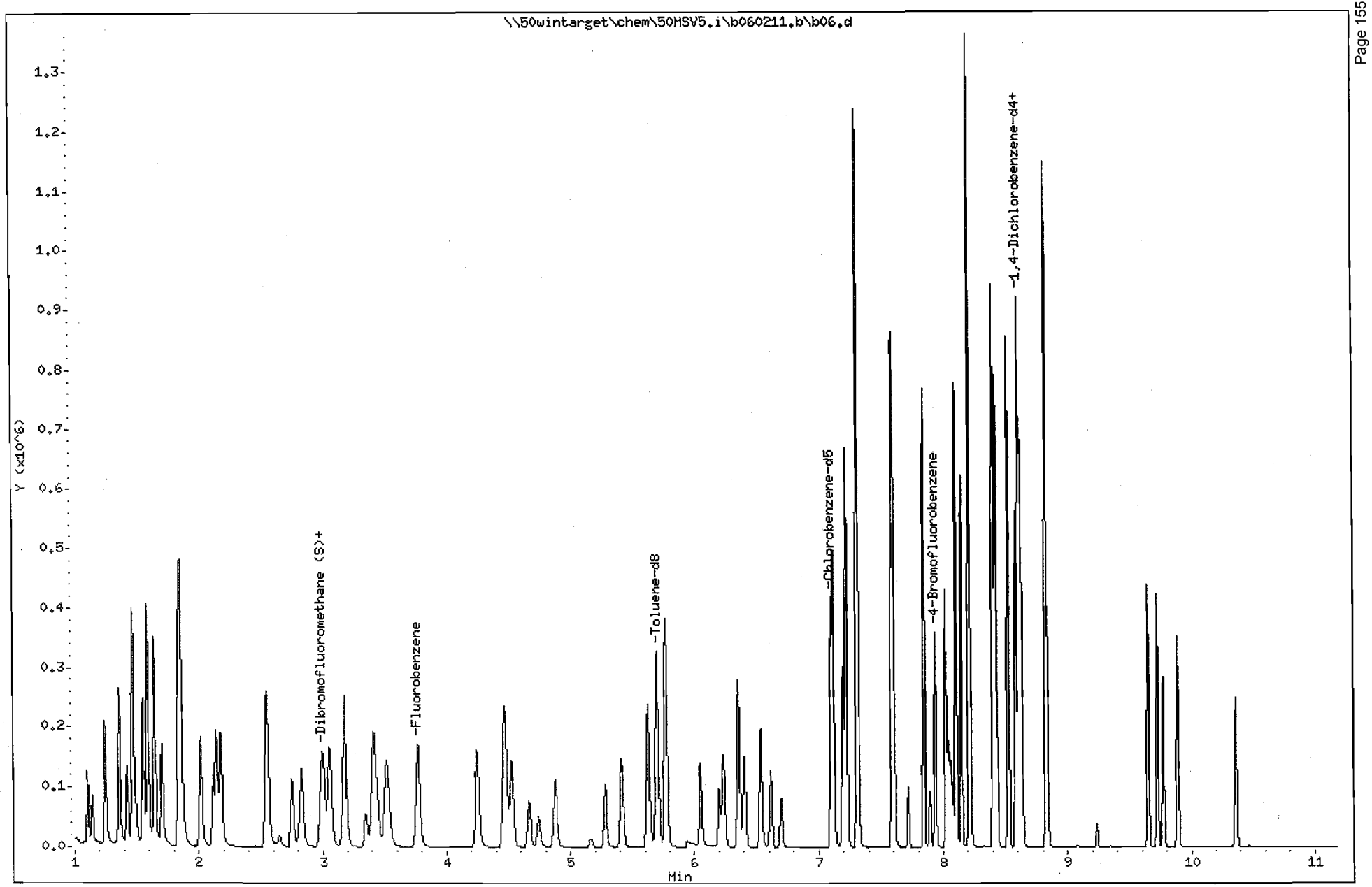
Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	48.2	
120-82-1	1,2,4-Trichlorobenzene	53.2	
87-68-3	Hexachlorobutadiene	45.0	
91-20-3	Naphthalene	54.2	
87-61-6	1,2,3-Trichlorobenzene	51.6	
	2,methyl-naphthalene	42.1	
1868-53-7	Dibromofluoromethane (S)	49.5	
2037-26-5	Toluene-d8	51.0	
460-00-4	4-Bromofluorobenzene	50.3	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b06.d
Date : 02-JUN-2011 17:50
Client ID: 50ppb
Sample Info: 50ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b06.d

Date : 02-JUN-2011 17:50

Client ID: 50ppb

Instrument: 50MSV5.i

Sample Info: 50ppb

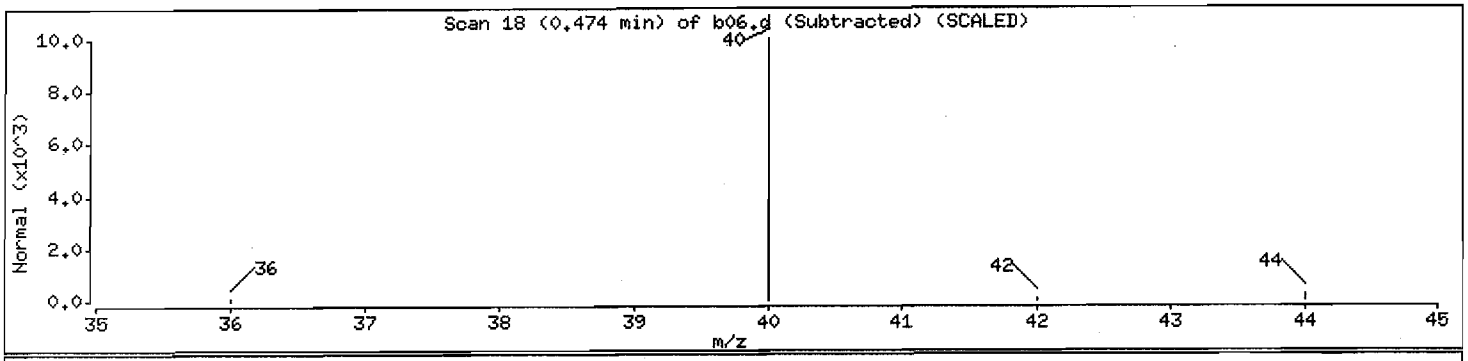
Purge Volume: 5.0

Operator: heb

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b07.d
Lab Smp Id: 150ppb Client Smp ID: 150ppb
Inj Date : 02-JUN-2011 18:27
Operator : heb Inst ID: 50MSV5.i
Smp Info : 150ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison Quant Type: ISTD
Cal Date : 31-MAY-2011 19:19 Cal File: b08cal.d
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.850	0.850	(0.226)	250867	150.000	149
2 Chloromethane	50	0.928	0.928	(0.246)	234869	150.000	141
3 Vinyl Chloride	62	0.965	0.970	(0.256)	173951	150.000	152
4 Bromomethane	94	1.096	1.101	(0.291)	120457	150.000	148
139 Methyl Acetate	43	1.645	1.645	(0.437)	45262	150.000	146
5 Chloroethane	64	1.132	1.138	(0.301)	93512	150.000	140
6 Trichlorofluoromethane	101	1.242	1.247	(0.330)	338923	150.000	157
7 Diethyl ether	74	1.357	1.357	(0.360)	60174	150.000	148
8 Acrolein	56	1.420	1.420	(0.377)	206943	3000.00	2980
9 1,1-Dichloroethene	96	1.467	1.472	(0.389)	160878	150.000	156
10 1,1,2trichlorotrifluoroethane	101	1.462	1.462	(0.388)	186981	150.000	154
11 Acetone	43	1.488	1.488	(0.395)	94313	750.000	743
12 Iodomethane	142	1.546	1.551	(0.410)	582108	300.000	296
13 Carbon Disulfide	76	1.587	1.587	(0.421)	1007507	300.000	297
142 Acetonitrile	39	1.640	1.640	(0.435)	297652	150.000	142
14 allyl chloride	41	1.640	1.640	(0.435)	398164	300.000	290
15 Methylene Chloride	84	1.703	1.702	(0.452)	144522	150.000	166
16 Acrylonitrile	53	1.839	1.838	(0.488)	480286	3000.00	2970
17 tert-Butyl Alcohol	59	1.755	1.750	(0.466)	9333	300.000	291(Q)
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.492)	165708	150.000	151
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.492)	579929	300.000	298
20 n-Hexane	57	2.016	2.016	(0.535)	237028	150.000	164
21 1,1-Dichloroethane	63	2.110	2.116	(0.560)	306453	150.000	150

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.142	2.142	(0.568)	724151	600.000	596
	143 Chloroprene	53	2.173	2.178	(0.577)	296859	150.000	159
	24 2,2-Dichloropropane	77	2.545	2.545	(0.675)	252530	150.000	160
	25 1,2-Dichloroethene (cis)	96	2.545	2.545	(0.675)	170639	150.000	151
	26 2-Butanone	43	2.566	2.565	(0.681)	151504	750.000	742
	27 Propionitrile	54	2.623	2.618	(0.696)	10578	150.000	149(Q)
	144 Methacrylonitrile	41	2.749	2.748	(0.729)	39226	750.000	659(M)
	28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	193505	150.000	154
	29 Bromochloromethane	49	2.749	2.748	(0.729)	102021	150.000	148
	30 Tetrahydrofuran	42	2.806	2.806	(0.745)	17131	150.000	146
	31 Chloroform	83	2.822	2.827	(0.749)	326309	150.000	151
$	32 Dibromofluoromethane (S)	113	2.979	2.984	(0.790)	53024	50.0000	46.4
	33 1,1,1-Trichloroethane	97	3.000	3.000	(0.796)	303867	150.000	160
	35 Carbon Tetrachloride	117	3.172	3.172	(0.842)	281812	150.000	163
	36 1,1-Dichloropropene	75	3.172	3.177	(0.842)	253170	150.000	158
	37 Isobutyl alcohol	43	3.517	3.559	(0.933)	130207	150.000	151
	140 Cyclohexane	56	3.052	3.057	(0.810)	269623	150.000	151
	38 Benzene	78	3.408	3.408	(0.904)	617912	150.000	156
	39 1,2-Dichloroethane	62	3.434	3.439	(0.911)	210255	150.000	152
	138 2,2,4-Trimethylpentane	57	3.517	3.517	(0.933)	717288	150.000	168
	141 Methylcyclohexane	55	4.469	4.469	(1.186)	302561	150.000	166
*	40 Fluorobenzene	96	3.768	3.768	(1.000)	226620	50.0000	
	41 Trichloroethene	95	4.244	4.244	(1.126)	216576	150.000	166
	42 1,2-Dichloropropane	63	4.527	4.527	(1.201)	200105	150.000	167
	43 Dibromomethane	93	4.663	4.663	(1.237)	101316	150.000	149
	44 Methyl methacrylate	69	4.741	4.741	(1.258)	76234	150.000	169
	45 Bromodichloromethane	83	4.877	4.877	(1.294)	266015	150.000	170
	46 2-Chloroethyl vinyl ether	63	5.280	5.280	(0.744)	174402	300.000	326
	145 1,4-Dioxane	88	4.731	4.731	(1.255)	775	150.000	124(QM)
	47 cis-1,3-Dichloropropene	75	5.411	5.411	(0.762)	304968	150.000	164
	48 4-Methyl-2-Pentanone	43	5.625	5.625	(0.792)	549391	750.000	747
$	49 Toluene-d8	98	5.698	5.698	(0.803)	237537	50.0000	49.1
	50 Toluene	91	5.772	5.772	(0.813)	863091	150.000	161
	51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.852)	257419	150.000	161
	52 Ethyl Methacrylate	69	6.195	6.200	(0.873)	163269	150.000	170
	53 1,1,2-Trichloroethane	83	6.237	6.237	(0.878)	127550	150.000	167
	54 Tetrachloroethene	166	6.357	6.357	(0.895)	260526	150.000	162
	55 1,3-Dichloropropane	76	6.405	6.404	(0.902)	264003	150.000	168
	56 2-Hexanone	43	6.535	6.535	(0.920)	388307	750.000	748
	57 Dibromochloromethane	129	6.614	6.614	(0.931)	196554	150.000	161
	58 1,2-Dibromoethane	107	6.697	6.697	(0.943)	153813	150.000	160
*	59 Chlorobenzene-d5	117	7.100	7.100	(1.000)	189282	50.0000	
	60 Chlorobenzene	112	7.121	7.121	(1.003)	611764	150.000	159
	61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.013)	211782	150.000	156
	62 Ethylbenzene	106	7.220	7.220	(1.017)	334502	150.000	165
	63 m&p-Xylene	106	7.315	7.314	(1.030)	810321	300.000	316
	65 o-Xylene	106	7.592	7.592	(1.069)	395514	150.000	169
	66 Styrene	104	7.602	7.602	(1.071)	655832	150.000	166
	67 Bromoform	173	7.717	7.717	(0.896)	109893	150.000	159
	68 Isopropylbenzene	105	7.843	7.843	(1.105)	1085048	150.000	173
	69 trans-1,4-Dichloro-2-butene	53	8.073	8.078	(1.137)	55799	150.000	150
$	70 4-Bromofluorobenzene	95	7.937	7.937	(1.118)	83862	50.0000	49.4
	71 Bromobenzene	77	8.021	8.021	(1.130)	373470	150.000	165
	72 1,1,2,2-Tetrachloroethane	83	8.042	8.041	(0.933)	179855	150.000	170

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.057	8.062	(0.935)	197823	150.000	171
74 n-Propylbenzene	91	8.104	8.104	(0.941)	1284390	150.000	164
75 2-Chlorotoluene	91	8.146	8.146	(0.945)	708693	150.000	163
76 4-Chlorotoluene	126	8.214	8.214	(0.953)	260974	150.000	170
77 1,3,5-Trimethylbenzene	105	8.209	8.209	(0.953)	859609	150.000	165
78 tert-Butylbenzene	119	8.402	8.402	(0.975)	1016030	150.000	163
79 1,2,4-Trimethylbenzene	105	8.429	8.429	(0.978)	858216	150.000	169
80 sec-Butylbenzene	105	8.523	8.523	(0.989)	1235584	150.000	173
81 1,3-Dichlorobenzene	146	8.580	8.580	(0.996)	458603	150.000	160
* 82 1,4-Dichlorobenzene-d4	152	8.617	8.622	(1.000)	99266	50.0000	(Q)
83 p-Isopropyltoluene	119	8.606	8.606	(0.999)	962948	150.000	163
84 1,4-Dichlorobenzene	146	8.633	8.633	(1.002)	477753	150.000	160
85 1,2-Dichlorobenzene	146	8.831	8.836	(1.025)	455678	150.000	175
86 n-Butylbenzene	91	8.826	8.826	(1.024)	977393	150.000	174
87 1,2-Dibromo-3-chloropropane	155	9.239	9.239	(1.072)	20590	150.000	162
88 1,2,4-Trichlorobenzene	180	9.647	9.647	(1.120)	315789	150.000	180
89 Hexachlorobutadiene	225	9.726	9.726	(1.129)	209640	150.000	152
90 Naphthalene	128	9.773	9.767	(1.134)	516149	150.000	180
91 1,2,3-Trichlorobenzene	180	9.888	9.888	(1.147)	265735	150.000	173
92 2,methyl-naphthalene	142	10.359	10.358	(1.202)	368827	150.000	143

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b07.d
Lab Smp Id: 150ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: 150ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	177446	88723	354892	226620	27.71
59 Chlorobenzene-d5	163145	81573	326290	189282	16.02
82 1,4-Dichlorobenze	90939	45470	181878	99266	9.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.77	-0.00
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	-0.00
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	-0.06

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	149	
74-87-3	Chloromethane	141	
75-01-4	Vinyl Chloride	152	
74-83-9	Bromomethane	148	
79-20-9	Methyl Acetate	146	
75-00-3	Chloroethane	140	
75-69-4	Trichlorofluoromethane	157	
60-29-7	Diethyl ether	148	
107-02-8	Acrolein	2980	
75-35-4	1,1-Dichloroethene	156	
76-13-1	1,1,2trichlorotrifluoroethan	154	
67-64-1	Acetone	743	
	Iodomethane	296	
75-15-0	Carbon Disulfide	297	
75-05-8	Acetonitrile	142	
107-05-1	allyl chloride	290	
75-09-2	Methylene Chloride	166	
107-13-1	Acrylonitrile	2970	
75-65-0	tert-Butyl Alcohol	291	
156-60-5	1,2-Dichloroethene (trans)	151	
1634-04-4	Methyl-tert-butyl ether	298	
	n-Hexane	164	
75-34-3	1,1-Dichloroethane	150	
108-05-4	Vinyl Acetate	596	
126-99-8	Chloroprene	159	
594-20-7	2,2-Dichloropropane	160	
156-59-2	1,2-Dichloroethene (cis)	151	
78-93-3	2-Butanone	742	
107-12-0	Propionitrile	149	
126-98-7	Methacrylonitrile	659	
354-23-4	1,2-dichlorotrifluoroethane	154	
74-97-5	Bromochloromethane	148	
	Tetrahydrofuran	146	
67-66-3	Chloroform	151	
71-55-6	1,1,1-Trichloroethane	160	
56-23-5	Carbon Tetrachloride	163	
563-58-6	1,1-Dichloropropene	158	
78-83-1	Isobutyl alcohol	151	
110-82-7	Cyclohexane	151	
71-43-2	Benzene	156	
107-06-2	1,2-Dichloroethane	152	
540-84-1	2,2,4-Trimethylpentane	168	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	166	
79-01-6	Trichloroethene	166	
78-87-5	1,2-Dichloropropane	167	
74-95-3	Dibromomethane	149	
80-62-6	Methyl methacrylate	169	
75-27-4	Bromodichloromethane	170	
110-75-8	2-Chloroethyl vinyl ether	326	
	1,4-Dioxane	124	
10061-01-5	cis-1,3-Dichloropropene	164	
108-10-1	4-Methyl-2-Pentanone	747	
108-88-3	Toluene	161	
10061-02-6	trans-1,3-Dichloropropene	161	
	Ethyl Methacrylate	170	
79-00-5	1,1,2-Trichloroethane	167	
127-18-4	Tetrachloroethene	162	
142-28-9	1,3-Dichloropropane	168	
591-78-6	2-Hexanone	748	
124-48-1	Dibromochloromethane	161	
106-93-4	1,2-Dibromoethane	160	
108-90-7	Chlorobenzene	159	
630-20-6	1,1,1,2-Tetrachloroethane	156	
100-41-4	Ethylbenzene	165	
7816-60-0	m&p-Xylene	316	
95-47-6	o-Xylene	169	
100-42-5	Styrene	166	
75-25-2	Bromoform	159	
98-82-8	Isopropylbenzene	173	
	trans-1,4-Dichloro-2-butene	150	
108-86-1	Bromobenzene	165	
79-34-5	1,1,2,2-Tetrachloroethane	170	
96-18-4	1,2,3-Trichloropropane	171	
103-65-1	n-Propylbenzene	164	
95-49-8	2-Chlorotoluene	163	
106-43-4	4-Chlorotoluene	170	
108-67-8	1,3,5-Trimethylbenzene	165	
98-06-6	tert-Butylbenzene	163	
95-63-6	1,2,4-Trimethylbenzene	169	
135-98-8	sec-Butylbenzene	173	
541-73-1	1,3-Dichlorobenzene	160	
99-87-6	p-Isopropyltoluene	163	
106-46-7	1,4-Dichlorobenzene	160	
95-50-1	1,2-Dichlorobenzene	175	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

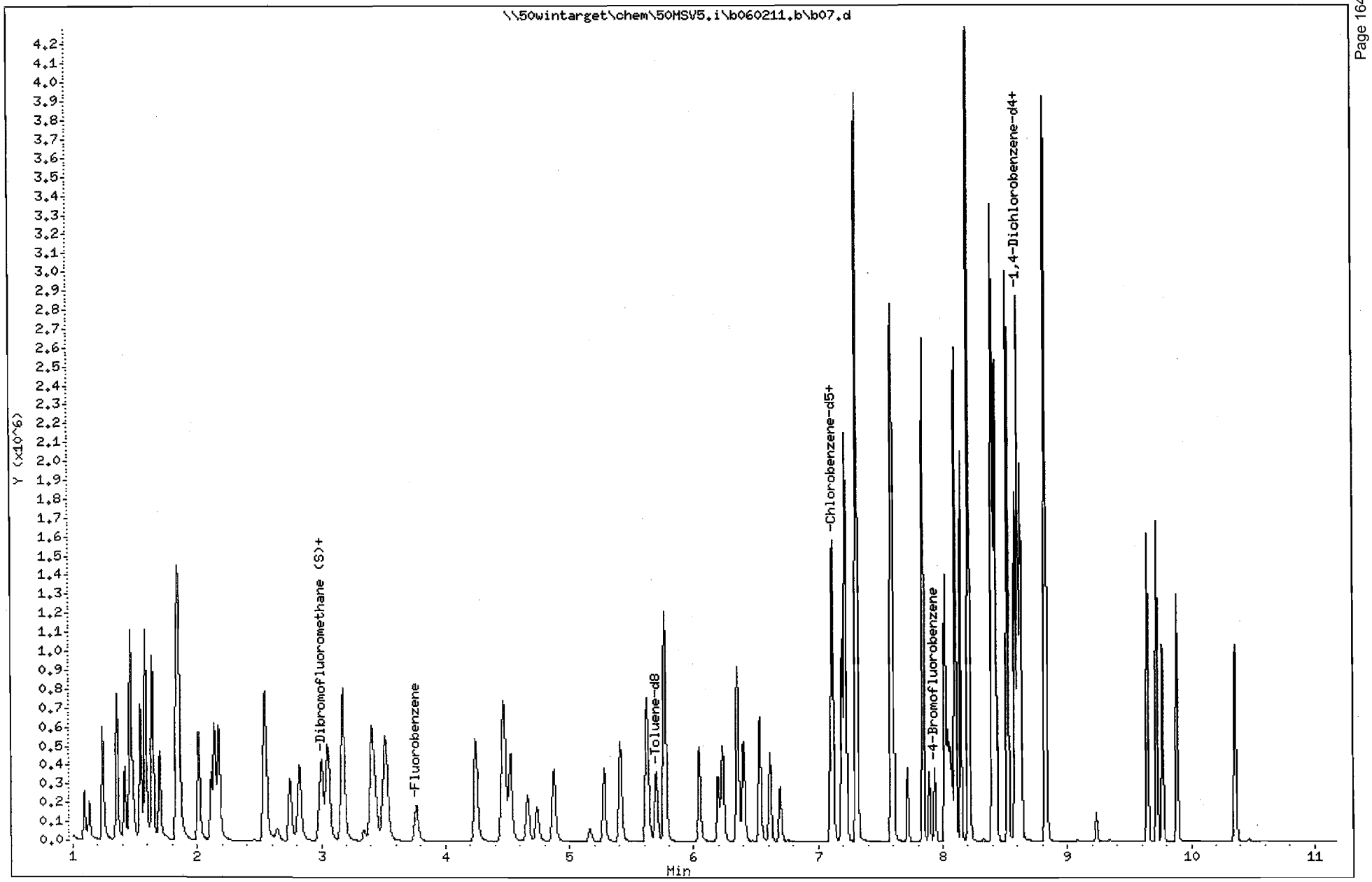
Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	174	
96-12-8	1,2-Dibromo-3-chloropropane	162	
120-82-1	1,2,4-Trichlorobenzene	180	
87-68-3	Hexachlorobutadiene	152	
91-20-3	Naphthalene	180	
87-61-6	1,2,3-Trichlorobenzene	173	
	2,methyl-naphthalene	143	
1868-53-7	Dibromofluoromethane (S)	46.4	
2037-26-5	Toluene-d8	49.1	
460-00-4	4-Bromofluorobenzene	49.4	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b07.d
Date : 02-JUN-2011 18:27
Client ID: 150ppb
Sample Info: 150ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b07.d

Date : 02-JUN-2011 18:27

Client ID: 150ppb

Instrument: 50MSV5.i

Sample Info: 150ppb

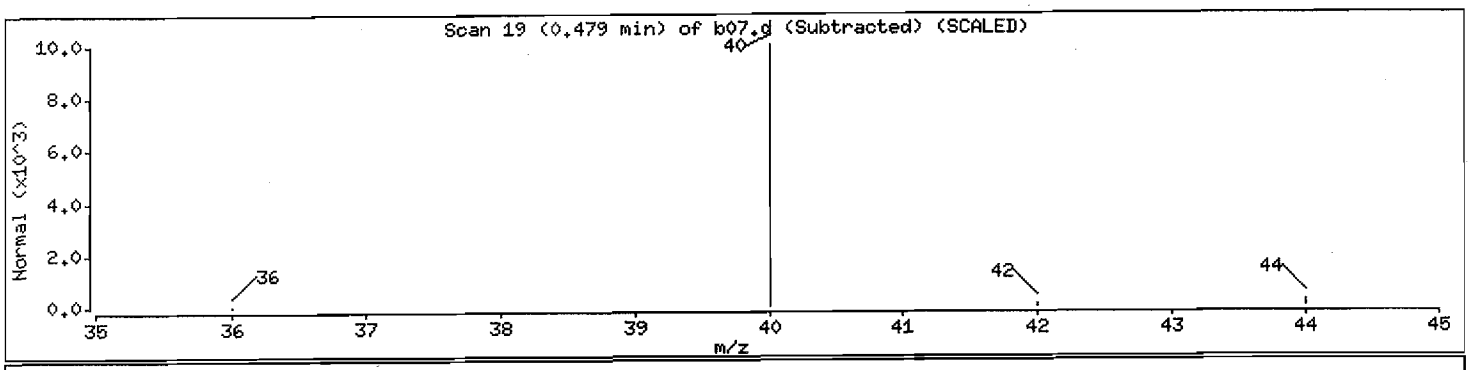
Purge Volume: 5.0

Operator: heb

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b08.d
Lab Smp Id: 300ppb Client Smp ID: 300ppb
Inj Date : 02-JUN-2011 19:04
Operator : heb Inst ID: 50MSV5.i
Smp Info : 300ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison Quant Type: ISTD
Cal Date : 31-MAY-2011 19:19 Cal File: b08cal.d
Als bottle: 18 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.850	0.850	(0.226)	515231	300.000	273
2 Chloromethane	50	0.929	0.928	(0.247)	533879	300.000	285
3 Vinyl Chloride	62	0.965	0.970	(0.257)	363439	300.000	282
4 Bromomethane	94	1.085	1.101	(0.289)	117711	300.000	129
139 Methyl Acetate	43	1.645	1.645	(0.437)	86784	300.000	248
5 Chloroethane	64	1.127	1.138	(0.300)	173748	300.000	232
6 Trichlorofluoromethane	101	1.237	1.247	(0.329)	679759	300.000	280
7 Diethyl ether	74	1.357	1.357	(0.361)	101570	300.000	223
8 Acrolein	56	1.420	1.420	(0.377)	353523	6000.00	4530
9 1,1-Dichloroethene	96	1.467	1.472	(0.390)	322708	300.000	279
10 1,1,2trichlorotrifluoroethane	101	1.457	1.462	(0.387)	363590	300.000	266
11 Acetone	43	1.488	1.488	(0.396)	164362	1500.00	1160
12 Iodomethane	142	1.546	1.551	(0.411)	1100282	600.000	497
13 Carbon Disulfide	76	1.582	1.587	(0.421)	1889021	600.000	497
142 Acetonitrile	39	1.640	1.640	(0.436)	534324	300.000	227
14 allyl chloride	41	1.640	1.640	(0.436)	720489	600.000	467
15 Methylene Chloride	84	1.703	1.702	(0.452)	277944	300.000	289
16 Acrylonitrile	53	1.839	1.838	(0.489)	789702	6000.00	4340
17 tert-Butyl Alcohol	59	1.760	1.750	(0.468)	10355	600.000	287(Q)
18 1,2-Dichloroethene (trans)	96	1.849	1.854	(0.491)	314113	300.000	255
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.493)	937887	600.000	429
20 n-Hexane	57	2.011	2.016	(0.534)	474473	300.000	293
21 1,1-Dichloroethane	63	2.116	2.116	(0.562)	586354	300.000	256

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
23 Vinyl Acetate	43	2.142	2.142	(0.569)	1137521	1200.00	834
143 Chloroprene	53	2.173	2.178	(0.578)	575680	300.000	275
24 2,2-Dichloropropane	77	2.539	2.545	(0.675)	501283	300.000	284
25 1,2-Dichloroethene (cis)	96	2.545	2.545	(0.676)	320700	300.000	253
26 2-Butanone	43	2.566	2.565	(0.682)	214288	1500.00	935
27 Propionitrile	54	2.618	2.618	(0.696)	20005	300.000	247(Q)
144 Methacrylonitrile	41	2.749	2.748	(0.730)	52557	1500.00	786(M)
28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	390761	300.000	276
29 Bromochloromethane	49	2.749	2.748	(0.730)	186712	300.000	242
30 Tetrahydrofuran	42	2.806	2.806	(0.746)	24591	300.000	189
31 Chloroform	83	2.822	2.827	(0.750)	591105	300.000	243
$ 32 Dibromofluoromethane (S)	113	2.984	2.984	(0.793)	52318	50.0000	40.7
33 1,1,1-Trichloroethane	97	3.000	3.000	(0.797)	607392	300.000	284
35 Carbon Tetrachloride	117	3.172	3.172	(0.843)	564992	300.000	292
36 1,1-Dichloropropene	75	3.172	3.177	(0.843)	502960	300.000	279
37 Isobutyl alcohol	43	3.517	3.559	(0.935)	207957	300.000	214
140 Cyclohexane	56	3.052	3.057	(0.811)	547539	300.000	273
38 Benzene	78	3.408	3.408	(0.906)	1254563	300.000	281
39 1,2-Dichloroethane	62	3.434	3.439	(0.912)	354712	300.000	228
138 2,2,4-Trimethylpentane	57	3.517	3.517	(0.935)	1219906	300.000	254
141 Methylcyclohexane	55	4.469	4.469	(1.188)	618063	300.000	302
* 40 Fluorobenzene	96	3.763	3.768	(1.000)	254534	50.0000	
41 Trichloroethene	95	4.244	4.244	(1.128)	445944	300.000	304
42 1,2-Dichloropropane	63	4.527	4.527	(1.203)	398360	300.000	296
43 Dibromomethane	93	4.663	4.663	(1.239)	180103	300.000	236
44 Methyl methacrylate	69	4.741	4.741	(1.260)	145344	300.000	288
45 Bromodichloromethane	83	4.877	4.877	(1.296)	503391	300.000	288
46 2-Chloroethyl vinyl ether	63	5.280	5.280	(0.744)	343909	600.000	586
145 1,4-Dioxane	88	4.741	4.731	(1.260)	2456	300.000	351(Q)
47 cis-1,3-Dichloropropene	75	5.411	5.411	(0.762)	597160	300.000	292
48 4-Methyl-2-Pentanone	43	5.631	5.625	(0.793)	1009389	1500.00	1250
$ 49 Toluene-d8	98	5.698	5.698	(0.803)	262576	50.0000	49.6
50 Toluene	91	5.772	5.772	(0.813)	1710757	300.000	293
51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.852)	518539	300.000	294
52 Ethyl Methacrylate	69	6.201	6.200	(0.873)	299849	300.000	287
53 1,1,2-Trichloroethane	83	6.237	6.237	(0.878)	247951	300.000	297
54 Tetrachloroethene	166	6.358	6.357	(0.895)	558854	300.000	317
55 1,3-Dichloropropane	76	6.405	6.404	(0.902)	508374	300.000	296
56 2-Hexanone	43	6.535	6.535	(0.920)	712157	1500.00	1250
57 Dibromochloromethane	129	6.614	6.614	(0.931)	395495	300.000	294
58 1,2-Dibromoethane	107	6.697	6.697	(0.943)	310758	300.000	295
* 59 Chlorobenzene-d5	117	7.100	7.100	(1.000)	207169	50.0000	
60 Chlorobenzene	112	7.121	7.121	(1.003)	1241304	300.000	294
61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.013)	441754	300.000	297
62 Ethylbenzene	106	7.220	7.220	(1.017)	670964	300.000	303
63 m&p-Xylene	106	7.315	7.314	(1.030)	1544993	600.000	551
65 o-Xylene	106	7.592	7.592	(1.069)	774644	300.000	303
66 Styrene	104	7.608	7.602	(1.071)	1289153	300.000	298
67 Bromoform	173	7.717	7.717	(0.895)	232537	300.000	296
68 Isopropylbenzene	105	7.843	7.843	(1.105)	2061187	300.000	300
69 trans-1,4-Dichloro-2-butene	53	8.078	8.078	(1.138)	97060	300.000	237(Q)
$ 70 4-Bromofluorobenzene	95	7.937	7.937	(1.118)	87277	50.0000	47.0
71 Bromobenzene	77	8.021	8.021	(1.130)	752358	300.000	304
72 1,1,2,2-Tetrachloroethane	83	8.047	8.041	(0.933)	346925	300.000	290

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.063	8.062	(0.935)	373910	300.000	287
74 n-Propylbenzene	91	8.104	8.104	(0.940)	2493908	300.000	281
75 2-Chlorotoluene	91	8.151	8.146	(0.945)	1400540	300.000	286
76 4-Chlorotoluene	126	8.214	8.214	(0.953)	518999	300.000	299
77 1,3,5-Trimethylbenzene	105	8.214	8.209	(0.953)	1679486	300.000	285
78 tert-Butylbenzene	119	8.403	8.402	(0.975)	2057277	300.000	293
79 1,2,4-Trimethylbenzene	105	8.429	8.429	(0.978)	1728602	300.000	301
80 sec-Butylbenzene	105	8.528	8.523	(0.989)	2462348	300.000	305
81 1,3-Dichlorobenzene	146	8.586	8.580	(0.996)	1002283	300.000	309
* 82 1,4-Dichlorobenzene-d4	152	8.622	8.622	(1.000)	112075	50.0000	(Q)
83 p-Isopropyltoluene	119	8.607	8.606	(0.998)	2023957	300.000	304
84 1,4-Dichlorobenzene	146	8.633	8.633	(1.001)	999673	300.000	296
85 1,2-Dichlorobenzene	146	8.837	8.836	(1.025)	894552	300.000	305
86 n-Butylbenzene	91	8.826	8.826	(1.024)	1889122	300.000	298
87 1,2-Dibromo-3-chloropropane	155	9.239	9.239	(1.072)	42385	300.000	294
88 1,2,4-Trichlorobenzene	180	9.647	9.647	(1.119)	705351	300.000	357
89 Hexachlorobutadiene	225	9.726	9.726	(1.128)	469720	300.000	300
90 Naphthalene	128	9.773	9.767	(1.133)	1147448	300.000	354
91 1,2,3-Trichlorobenzene	180	9.888	9.888	(1.147)	606210	300.000	350
92 2,methyl-naphthalene	142	10.359	10.358	(1.201)	902185	300.000	304

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b08.d
Lab Smp Id: 300ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: 300ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	177446	88723	354892	254534	43.44
59 Chlorobenzene-d5	163145	81573	326290	207169	26.98
82 1,4-Dichlorobenze	90939	45470	181878	112075	23.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.76	-0.14
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	0.00
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	273	
74-87-3	Chloromethane	285	
75-01-4	Vinyl Chloride	282	
74-83-9	Bromomethane	129	
79-20-9	Methyl Acetate	248	
75-00-3	Chloroethane	232	
75-69-4	Trichlorofluoromethane	280	
60-29-7	Diethyl ether	223	
107-02-8	Acrolein	4530	
75-35-4	1,1-Dichloroethene	279	
76-13-1	1,1,2trichlorotrifluoroethan	266	
67-64-1	Acetone	1160	
	Iodomethane	497	
75-15-0	Carbon Disulfide	497	
75-05-8	Acetonitrile	227	
107-05-1	allyl chloride	467	
75-09-2	Methylene Chloride	289	
107-13-1	Acrylonitrile	4340	
75-65-0	tert-Butyl Alcohol	287	
156-60-5	1,2-Dichloroethene (trans)	255	
1634-04-4	Methyl-tert-butyl ether	429	
	n-Hexane	293	
75-34-3	1,1-Dichloroethane	256	
108-05-4	Vinyl Acetate	834	
126-99-8	Chloroprene	275	
594-20-7	2,2-Dichloropropane	284	
156-59-2	1,2-Dichloroethene (cis)	253	
78-93-3	2-Butanone	935	
107-12-0	Propionitrile	247	
126-98-7	Methacrylonitrile	786	
354-23-4	1,2-dichlorotrifluoroethane	276	
74-97-5	Bromochloromethane	242	
	Tetrahydrofuran	189	
67-66-3	Chloroform	243	
71-55-6	1,1,1-Trichloroethane	284	
56-23-5	Carbon Tetrachloride	292	
563-58-6	1,1-Dichloropropene	279	
78-83-1	Isobutyl alcohol	214	
110-82-7	Cyclohexane	273	
71-43-2	Benzene	281	
107-06-2	1,2-Dichloroethane	228	
540-84-1	2,2,4-Trimethylpentane	254	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-82-7	Methylcyclohexane	302	
79-01-6	Trichloroethene	304	
78-87-5	1,2-Dichloropropane	296	
74-95-3	Dibromomethane	236	
80-62-6	Methyl methacrylate	288	
75-27-4	Bromodichloromethane	288	
110-75-8	2-Chloroethyl vinyl ether	586	
	1,4-Dioxane	351	
10061-01-5	cis-1,3-Dichloropropene	292	
108-10-1	4-Methyl-2-Pentanone	1250	
108-88-3	Toluene	293	
10061-02-6	trans-1,3-Dichloropropene	294	
	Ethyl Methacrylate	287	
79-00-5	1,1,2-Trichloroethane	297	
127-18-4	Tetrachloroethene	317	
142-28-9	1,3-Dichloropropane	296	
591-78-6	2-Hexanone	1250	
124-48-1	Dibromochloromethane	294	
106-93-4	1,2-Dibromoethane	295	
108-90-7	Chlorobenzene	294	
630-20-6	1,1,1,2-Tetrachloroethane	297	
100-41-4	Ethylbenzene	303	
7816-60-0	m&p-Xylene	551	
95-47-6	o-Xylene	303	
100-42-5	Styrene	298	
75-25-2	Bromoform	296	
98-82-8	Isopropylbenzene	300	
	trans-1,4-Dichloro-2-butene	237	
108-86-1	Bromobenzene	304	
79-34-5	1,1,2,2-Tetrachloroethane	290	
96-18-4	1,2,3-Trichloropropane	287	
103-65-1	n-Propylbenzene	281	
95-49-8	2-Chlorotoluene	286	
106-43-4	4-Chlorotoluene	299	
108-67-8	1,3,5-Trimethylbenzene	285	
98-06-6	tert-Butylbenzene	293	
95-63-6	1,2,4-Trimethylbenzene	301	
135-98-8	sec-Butylbenzene	305	
541-73-1	1,3-Dichlorobenzene	309	
99-87-6	p-Isopropyltoluene	304	
106-46-7	1,4-Dichlorobenzene	296	
95-50-1	1,2-Dichlorobenzene	305	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

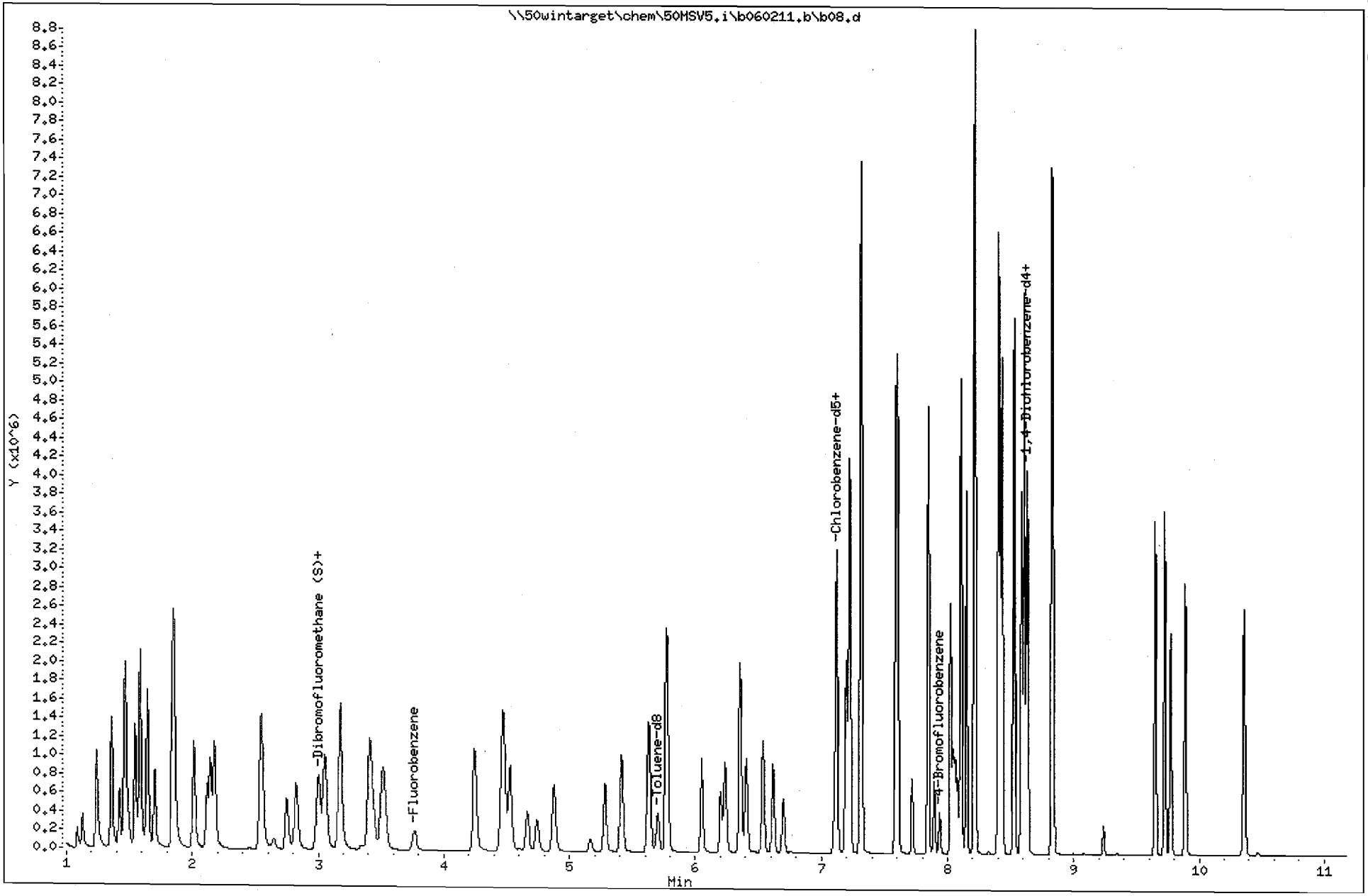
Client SDG: b060211.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	298	
96-12-8	1,2-Dibromo-3-chloropropane	294	
120-82-1	1,2,4-Trichlorobenzene	357	
87-68-3	Hexachlorobutadiene	300	
91-20-3	Naphthalene	354	
87-61-6	1,2,3-Trichlorobenzene	350	
	2,methyl-naphthalene	304	
1868-53-7	Dibromofluoromethane (S)	40.7	
2037-26-5	Toluene-d8	49.6	
460-00-4	4-Bromofluorobenzene	47.0	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b08.d
Date : 02-JUN-2011 19:04
Client ID: 300ppb
Sample Info: 300ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b08.d

Date : 02-JUN-2011 19:04

Client ID: 300ppb

Instrument: 50MSV5.i

Sample Info: 300ppb

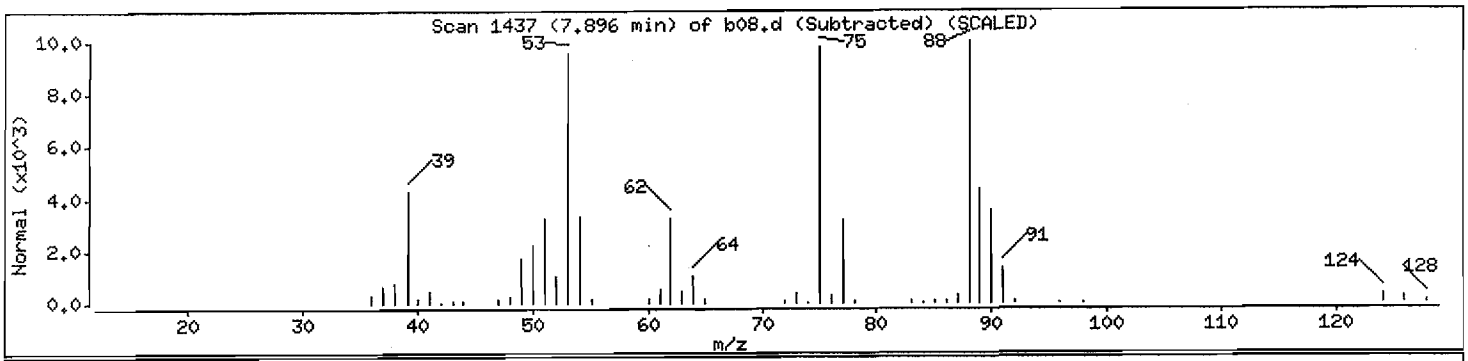
Purge Volume: 5.0

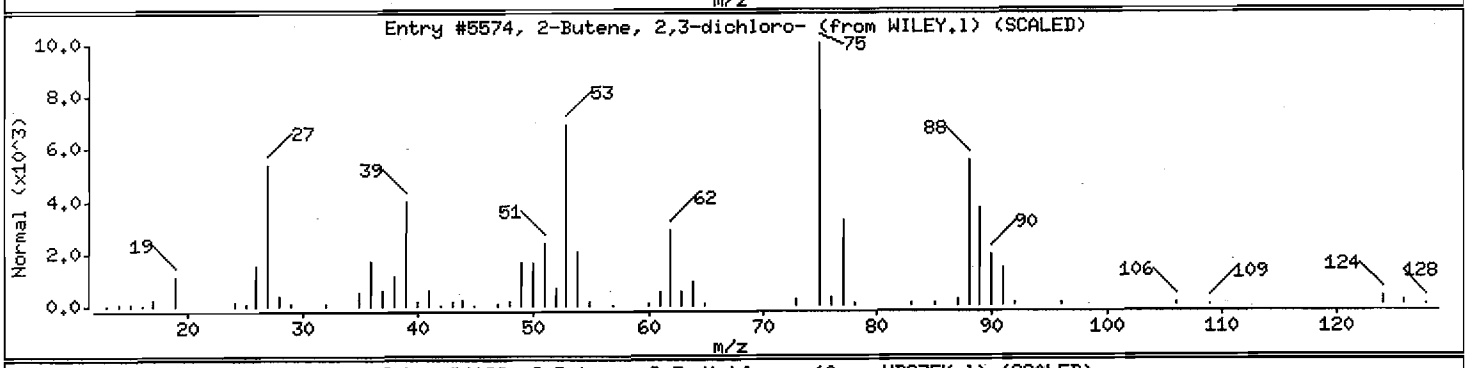
Operator: heb

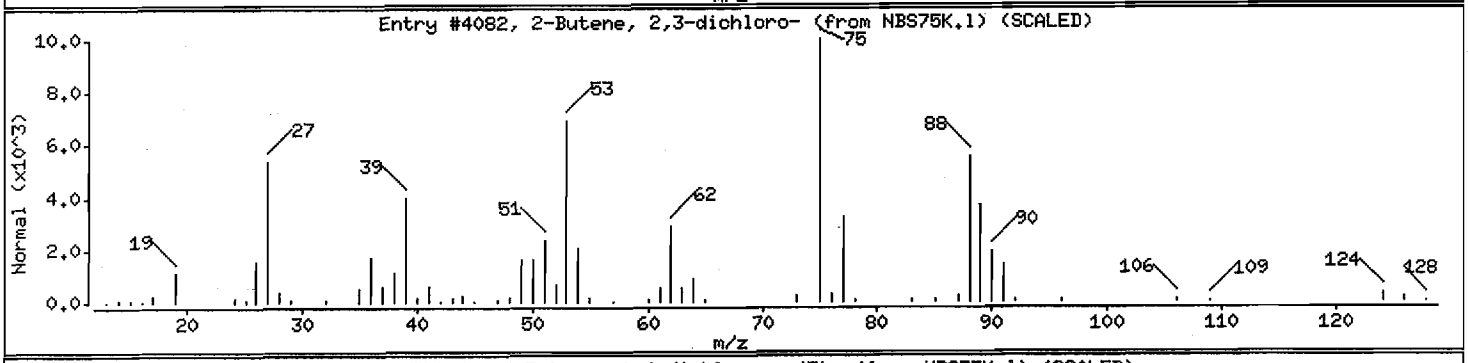
Column phase: DB-624

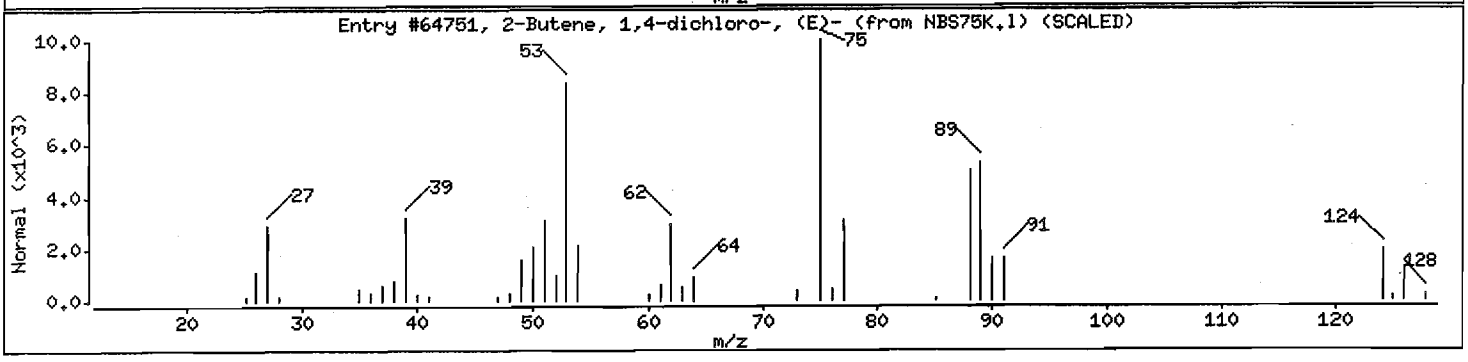
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	94	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	NBS75K.l	4082	94	C4H6Cl2	124
2-Butene, 1,4-dichloro-, (E)-	110-57-6	NBS75K.l	64751	64	C4H6Cl2	124









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060211.b\b10icv.d
Lab Smp Id: icv 34D-365 Client Smp ID: icv
Inj Date : 02-JUN-2011 20:18
Operator : heb Inst ID: 50MSV5.i
Smp Info : icv 34D-365
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Meth Date : 03-Jun-2011 16:13 aallison Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 22 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.850	0.850	(0.226)	107702	60.4602	60.5
2 Chloromethane	50	0.929	0.928	(0.246)	73770	41.7575	41.8
3 Vinyl Chloride	62	0.965	0.970	(0.256)	67197	55.3134	55.3
4 Bromomethane	94	1.101	1.101	(0.292)	44108	51.1572	51.2
139 Methyl Acetate	43	1.645	1.645	(0.437)	13873	42.0751	42.1
5 Chloroethane	64	1.138	1.138	(0.302)	35929	50.8665	50.9
6 Trichlorofluoromethane	101	1.248	1.247	(0.331)	110391	48.1624	48.2
7 Diethyl ether	74	1.357	1.357	(0.360)	19556	45.3530	45.4
8 Acrolein	56	1.420	1.420	(0.377)	25593	341.810	342(R)
9 1,1-Dichloroethene	96	1.473	1.472	(0.391)	50908	46.5778	46.6
10 1,1,2trichlorotrifluoroethane	101	1.462	1.462	(0.388)	58188	45.0655	45.1
11 Acetone	43	1.488	1.488	(0.395)	31973	228.371	228
12 Iodomethane	142	1.551	1.551	(0.412)	206341	100.766	101
13 Carbon Disulfide	76	1.588	1.587	(0.421)	325772	89.7125	89.7
142 Acetonitrile	39	1.640	1.640	(0.435)	68184	30.6830	30.7
14 allyl chloride	41	1.640	1.640	(0.435)	89982	61.7847	61.8(R)
15 Methylene Chloride	84	1.703	1.702	(0.452)	38409	36.4376	36.4
16 Acrylonitrile	53	1.833	1.838	(0.487)	118083	688.252	688(R)
17 tert-Butyl Alcohol	59	1.750	1.750	(0.464)	2468	69.4093	69.4(QR)
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.492)	42842	36.8048	36.8
19 Methyl-tert-butyl ether	73	1.854	1.854	(0.492)	141166	68.0902	68.1(R)
20 n-Hexane	57	2.011	2.016	(0.534)	82175	53.7902	53.8
21 1,1-Dichloroethane	63	2.111	2.116	(0.560)	100431	46.5447	46.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	23 Vinyl Acetate	43	2.142	2.142	(0.568)	232623	181.248	181
	143 Chloroprene	53	2.173	2.178	(0.577)	74810	37.9019	37.9
	24 2,2-Dichloropropane	77	2.545	2.545	(0.675)	82809	49.6239	49.6
	25 1,2-Dichloroethene (cis)	96	2.539	2.545	(0.674)	60790	50.8143	50.8
	26 2-Butanone	43	2.566	2.565	(0.681)	59146	273.373	273
	144 Methacrylonitrile	41	2.749	2.748	(0.729)	16335	258.708	259
	28 1,2-dichlorotrifluoroethane	67	1.352	1.352	(0.359)	64362	48.1923	48.2
	29 Bromochloromethane	49	2.749	2.748	(0.729)	37429	49.6351	49.6
	30 Tetrahydrofuran	42	2.806	2.806	(0.745)	7432	54.1211	54.1
	31 Chloroform	83	2.822	2.827	(0.749)	107203	46.7755	46.8
$	32 Dibromofluoromethane (S)	113	2.979	2.984	(0.790)	62598	51.6203	51.6
	33 1,1,1-Trichloroethane	97	3.000	3.000	(0.796)	99229	49.2044	49.2
	35 Carbon Tetrachloride	117	3.172	3.172	(0.842)	90506	48.4996	48.5
	36 1,1-Dichloropropene	75	3.172	3.177	(0.842)	85058	49.9597	50.0
	37 Isobutyl alcohol	43	3.559	3.559	(0.944)	325342	354.442	354(Q)
	140 Cyclohexane	56	3.052	3.057	(0.810)	98034	51.7231	51.7
	38 Benzene	78	3.408	3.408	(0.904)	224836	53.4299	53.4
	39 1,2-Dichloroethane	62	3.434	3.439	(0.911)	74429	50.6289	50.6
	138 2,2,4-Trimethylpentane	57	3.512	3.517	(0.932)	210996	46.6417	46.6
	141 Methylcyclohexane	55	4.469	4.469	(1.186)	89339	46.2062	46.2
*	40 Fluorobenzene	96	3.769	3.768	(1.000)	240256	50.0000	
	41 Trichloroethene	95	4.245	4.244	(1.126)	65850	47.4862	47.5
	42 1,2-Dichloropropane	63	4.527	4.527	(1.201)	57961	45.6549	45.6
	43 Dibromomethane	93	4.663	4.663	(1.237)	31341	43.5441	43.5
	44 Methyl methacrylate	69	4.741	4.741	(1.258)	94244	197.803	198
	45 Bromodichloromethane	83	4.877	4.877	(1.294)	75882	44.5544	44.6
	46 2-Chloroethyl vinyl ether	63	5.280	5.280	(0.744)	21012	38.4405	38.4
	145 1,4-Dioxane	88	4.736	4.731	(1.257)	8284	1254.68	1250(Q)
	47 cis-1,3-Dichloropropene	75	5.411	5.411	(0.762)	82281	41.1122	41.1
	48 4-Methyl-2-Pentanone	43	5.631	5.625	(0.793)	174828	222.674	223
$	49 Toluene-d8	98	5.699	5.698	(0.803)	260010	49.6218	49.6
	50 Toluene	91	5.772	5.772	(0.813)	277615	45.4296	45.4
	51 trans-1,3-Dichloropropene	75	6.049	6.049	(0.852)	63391	37.9028	37.9
	52 Ethyl Methacrylate	69	6.201	6.200	(0.873)	214879	207.462	207
	53 1,1,2-Trichloroethane	83	6.237	6.237	(0.878)	40367	48.8879	48.9
	54 Tetrachloroethene	166	6.358	6.357	(0.895)	79986	45.8878	45.9
	55 1,3-Dichloropropane	76	6.405	6.404	(0.902)	83476	49.1814	49.2
	56 2-Hexanone	43	6.535	6.535	(0.920)	132661	240.605	241
	57 Dibromochloromethane	129	6.614	6.614	(0.931)	53223	41.0936	41.1
	58 1,2-Dibromoethane	107	6.698	6.697	(0.943)	48719	46.6649	46.7
*	59 Chlorobenzene-d5	117	7.100	7.100	(1.000)	204975	50.0000	
	60 Chlorobenzene	112	7.121	7.121	(1.003)	192029	46.0449	46.0
	61 1,1,1,2-Tetrachloroethane	131	7.194	7.194	(1.013)	59226	41.4483	41.4
	62 Ethylbenzene	106	7.221	7.220	(1.017)	108392	49.4842	49.5
	63 m&p-Xylene	106	7.315	7.314	(1.030)	264904	95.5290	95.5
	65 o-Xylene	106	7.592	7.592	(1.069)	127334	50.2775	50.3
	66 Styrene	104	7.602	7.602	(1.071)	210532	49.2798	49.3
	67 Bromoform	173	7.717	7.717	(0.896)	28242	39.2694	39.3
	68 Isopropylbenzene	105	7.843	7.843	(1.105)	323859	47.6533	47.6
	69 trans-1,4-Dichloro-2-butene	53	8.078	8.078	(1.138)	57334	142.993	143(Q)
$	70 4-Bromofluorobenzene	95	7.937	7.937	(1.118)	93135	50.6894	50.7
	71 Bromobenzene	77	8.021	8.021	(1.130)	117557	48.0645	48.1
	72 1,1,2,2-Tetrachloroethane	83	8.042	8.041	(0.933)	55148	46.7977	46.8
	73 1,2,3-Trichloropropane	75	8.078	8.062	(0.937)	100091	77.2367	77.2(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
74 n-Propylbenzene	91	8.104	8.104	(0.941)	415626	47.6248	47.6
75 2-Chlorotoluene	91	8.146	8.146	(0.945)	231956	48.0848	48.1
76 4-Chlorotoluene	126	8.214	8.214	(0.953)	80406	47.0029	47.0
77 1,3,5-Trimethylbenzene	105	8.209	8.209	(0.953)	272978	47.0455	47.0
78 tert-Butylbenzene	119	8.403	8.402	(0.975)	245386	35.1021	35.1
79 1,2,4-Trimethylbenzene	105	8.429	8.429	(0.978)	267977	47.3614	47.4
80 sec-Butylbenzene	105	8.523	8.523	(0.989)	376186	47.3905	47.4
81 1,3-Dichlorobenzene	146	8.580	8.580	(0.996)	145340	45.5313	45.5
* 82 1,4-Dichlorobenzene-d4	152	8.617	8.622	(1.000)	110344	50.0000	(Q)
83 p-Isopropyltoluene	119	8.607	8.606	(0.999)	303968	46.3676	46.4
84 1,4-Dichlorobenzene	146	8.633	8.633	(1.002)	147070	44.3067	44.3
85 1,2-Dichlorobenzene	146	8.831	8.836	(1.025)	132764	45.9192	45.9
86 n-Butylbenzene	91	8.826	8.826	(1.024)	289483	46.4208	46.4
87 1,2-Dibromo-3-chloropropane	155	9.239	9.239	(1.072)	5767	42.9085	42.9
88 1,2,4-Trichlorobenzene	180	9.647	9.647	(1.120)	82698	42.5456	42.5
89 Hexachlorobutadiene	225	9.726	9.726	(1.129)	57219	39.5383	39.5
90 Naphthalene	128	9.773	9.767	(1.134)	153303	47.9955	48.0
91 1,2,3-Trichlorobenzene	180	9.888	9.888	(1.147)	75308	44.1132	44.1
92 2,methyl-naphthalene	142	10.359	10.358	(1.202)	94664	37.3987	37.4

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b10icv.d
Lab Smp Id: icv 34D-365
Analysis Type: VOA
Quant Type: ISTD
Operator: heb
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 03-JUN-2011
Calibration Time: 03:40
Client Smp ID: icv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	211619	105810	423238	240256	13.53
59 Chlorobenzene-d5	177992	88996	355984	204975	15.16
82 1,4-Dichlorobenze	99145	49573	198290	110344	11.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.77	0.01
59 Chlorobenzene-d5	7.10	6.60	7.60	7.10	0.00
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	-0.06

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: icv 34D-365
Level: LOW
Data Type: MS DATA
SpikeList File: 8260icv.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b060211.b\-b8260_a_b.m
Misc Info:

Client SDG: b060211.b
Fraction: VOA
Client Smp ID: icv
Operator: heb
SampleType: ICV
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	60.5	120.92	70-130
2 Chloromethane	50.0	41.8	83.52	70-130
3 Vinyl Chloride	50.0	55.3	110.63	70-130
4 Bromomethane	50.0	51.2	102.31	70-130
5 Chloroethane	50.0	50.9	101.73	70-130
6 Trichlorofluoromet	50.0	48.2	96.32	70-130
28 1,2-dichlorotriflu	50.0	48.2	96.38	70-130
7 Diethyl ether	50.0	45.4	90.71	70-130
8 Acrolein	1000	342	OK per SOP AA 6-3-11 → 34.18*	70-130
9 1,1-Dichloroethene	50.0	46.6	93.16	70-130
10 1,1,2trichlorotrif	50.0	45.1	90.13	70-130
11 Acetone	250	228	91.35	70-130
12 Iodomethane	100	101	100.77	70-130
13 Carbon Disulfide	100	89.7	89.71	70-130
139 Methyl Acetate	50.0	42.1	84.15	70-130
14 allyl chloride	100	61.8	NC → 61.78*	70-130
15 Methylene Chloride	50.0	36.4	72.88	70-130
16 Acrylonitrile	1000	688	✓ 68.83*	70-130
17 tert-Butyl Alcohol	100	69.4	✓ 69.41*	70-130
18 1,2-Dichloroethene	50.0	36.8	73.61	70-130
19 Methyl-tert-butyl	100	68.1	68.09*	70-130
20 n-Hexane	50.0	53.8	107.58	70-130
21 1,1-Dichloroethane	50.0	46.5	93.09	70-130
23 Vinyl Acetate	200	181	90.62	70-130
25 1,2-Dichloroethene	50.0	50.8	101.63	70-130
24 2,2-Dichloropropan	50.0	49.6	99.25	70-130
26 2-Butanone	250	273	109.35	70-130
29 Bromochloromethane	50.0	49.6	99.27	70-130
31 Chloroform	50.0	46.8	93.55	70-130
33 1,1,1-Trichloroeth	50.0	49.2	98.41	70-130
140 Cyclohexane	50.0	51.7	103.45	70-130
36 1,1-Dichloropropen	50.0	50.0	99.92	70-130
35 Carbon Tetrachlori	50.0	48.5	97.00	70-130
38 Benzene	50.0	53.4	106.86	70-130
39 1,2-Dichloroethane	50.0	50.6	101.26	70-130
41 Trichloroethene	50.0	47.5	94.97	70-130
141 Methylcyclohexane	50.0	46.2	92.41	70-130
42 1,2-Dichloropropan	50.0	45.6	91.31	70-130
43 Dibromomethane	50.0	43.5	87.09	70-130
44 Methyl methacrylat	200	198	98.90	70-130

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
45 Bromodichlorometha	50.0	44.6	89.11	70-130
47 cis-1,3-Dichloropr	50.0	41.1	82.22	70-130
48 4-Methyl-2-Pentano	250	223	89.07	70-130
50 Toluene	50.0	45.4	90.86	70-130
51 trans-1,3-Dichloro	50.0	37.9	75.81	70-130
52 Ethyl Methacrylate	200	207	103.73	70-130
53 1,1,2-Trichloroeth	50.0	48.9	97.78	70-130
54 Tetrachloroethene	50.0	45.9	91.78	70-130
55 1,3-Dichloropropan	50.0	49.2	98.36	70-130
56 2-Hexanone	250	241	96.24	70-130
57 Dibromochlorometha	50.0	41.1	82.19	70-130
58 1,2-Dibromoethane	50.0	46.7	93.33	70-130
60 Chlorobenzene	50.0	46.0	92.09	70-130
61 1,1,1,2-Tetrachlor	50.0	41.4	82.90	70-130
62 Ethylbenzene	50.0	49.5	98.97	70-130
63 m&p-Xylene	100	95.5	95.53	70-130
65 o-Xylene	50.0	50.3	100.56	70-130
66 Styrene	50.0	49.3	98.56	70-130
67 Bromoform	50.0	39.3	78.54	70-130
68 Isopropylbenzene	50.0	47.6	95.31	70-130
69 trans-1,4-Dichloro	200	143	71.50	70-130
72 1,1,2,2-Tetrachlor	50.0	46.8	93.60	70-130
71 Bromobenzene	50.0	48.1	96.13	70-130
73 1,2,3-Trichloropro	100	77.2	77.24	70-130
74 n-Propylbenzene	50.0	47.6	95.25	70-130
75 2-Chlorotoluene	50.0	48.1	96.17	70-130
76 4-Chlorotoluene	50.0	47.0	94.01	70-130
77 1,3,5-Trimethylben	50.0	47.0	94.09	70-130
78 tert-Butylbenzene	50.0	35.1	70.20	70-130
79 1,2,4-Trimethylben	50.0	47.4	94.72	70-130
80 sec-Butylbenzene	50.0	47.4	94.78	70-130
81 1,3-Dichlorobenzen	50.0	45.5	91.06	70-130
83 p-Isopropyltoluene	50.0	46.4	92.74	70-130
84 1,4-Dichlorobenzen	50.0	44.3	88.61	70-130
86 n-Butylbenzene	50.0	46.4	92.84	70-130
85 1,2-Dichlorobenzen	50.0	45.9	91.84	70-130
88 1,2,4-Trichloroben	50.0	42.5	85.09	70-130
91 1,2,3-Trichloroben	50.0	44.1	88.23	70-130
87 1,2-Dibromo-3-chlo	50.0	42.9	85.82	70-130
89 Hexachlorobutadien	50.0	39.5	79.08	70-130
90 Naphthalene	50.0	48.0	95.99	70-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.6	103.24	83-123
$ 49 Toluene-d8	50.0	49.6	99.24	81-114
$ 70 4-Bromofluorobenze	50.0	50.7	101.38	72-125

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-365
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	60.5	
74-87-3	Chloromethane	41.8	
75-01-4	Vinyl Chloride	55.3	
74-83-9	Bromomethane	51.2	
79-20-9	Methyl Acetate	42.1	
75-00-3	Chloroethane	50.9	
75-69-4	Trichlorofluoromethane	48.2	
60-29-7	Diethyl ether	45.4	
107-02-8	Acrolein	342	
75-35-4	1,1-Dichloroethene	46.6	
76-13-1	1,1,2trichlorotrifluoroethan	45.1	
67-64-1	Acetone	228	
	Iodomethane	101	
75-15-0	Carbon Disulfide	89.7	
75-05-8	Acetonitrile	30.7	
107-05-1	allyl chloride	61.8	
75-09-2	Methylene Chloride	36.4	
107-13-1	Acrylonitrile	688	
75-65-0	tert-Butyl Alcohol	69.4	
156-60-5	1,2-Dichloroethene (trans)	36.8	
1634-04-4	Methyl-tert-butyl ether	68.1	
	n-Hexane	53.8	
75-34-3	1,1-Dichloroethane	46.5	
108-05-4	Vinyl Acetate	181	
126-99-8	Chloroprene	37.9	
594-20-7	2,2-Dichloropropane	49.6	
156-59-2	1,2-Dichloroethene (cis)	50.8	
78-93-3	2-Butanone	273	
126-98-7	Methacrylonitrile	259	
354-23-4	1,2-dichlorotrifluoroethane	48.2	
74-97-5	Bromochloromethane	49.6	
	Tetrahydrofuran	54.1	
67-66-3	Chloroform	46.8	
71-55-6	1,1,1-Trichloroethane	49.2	
56-23-5	Carbon Tetrachloride	48.5	
563-58-6	1,1-Dichloropropene	50.0	
78-83-1	Isobutyl alcohol	354	
110-82-7	Cyclohexane	51.7	
71-43-2	Benzene	53.4	
107-06-2	1,2-Dichloroethane	50.6	
540-84-1	2,2,4-Trimethylpentane	46.6	
108-82-7	Methylcyclohexane	46.2	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-365
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060211.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	47.5	
78-87-5	1,2-Dichloropropane	45.6	
74-95-3	Dibromomethane	43.5	
80-62-6	Methyl methacrylate	198	
75-27-4	Bromodichloromethane	44.6	
110-75-8	2-Chloroethyl vinyl ether	38.4	
	1,4-Dioxane	1250	
10061-01-5	cis-1,3-Dichloropropene	41.1	
108-10-1	4-Methyl-2-Pentanone	223	
108-88-3	Toluene	45.4	
10061-02-6	trans-1,3-Dichloropropene	37.9	
	Ethyl Methacrylate	207	
79-00-5	1,1,2-Trichloroethane	48.9	
127-18-4	Tetrachloroethene	45.9	
142-28-9	1,3-Dichloropropane	49.2	
591-78-6	2-Hexanone	241	
124-48-1	Dibromochloromethane	41.1	
106-93-4	1,2-Dibromoethane	46.7	
108-90-7	Chlorobenzene	46.0	
630-20-6	1,1,1,2-Tetrachloroethane	41.4	
100-41-4	Ethylbenzene	49.5	
7816-60-0	m&p-Xylene	95.5	
95-47-6	o-Xylene	50.3	
100-42-5	Styrene	49.3	
75-25-2	Bromoform	39.3	
98-82-8	Isopropylbenzene	47.6	
	trans-1,4-Dichloro-2-butene	143	
108-86-1	Bromobenzene	48.1	
79-34-5	1,1,2,2-Tetrachloroethane	46.8	
96-18-4	1,2,3-Trichloropropane	77.2	
103-65-1	n-Propylbenzene	47.6	
95-49-8	2-Chlorotoluene	48.1	
106-43-4	4-Chlorotoluene	47.0	
108-67-8	1,3,5-Trimethylbenzene	47.0	
98-06-6	tert-Butylbenzene	35.1	
95-63-6	1,2,4-Trimethylbenzene	47.4	
135-98-8	sec-Butylbenzene	47.4	
541-73-1	1,3-Dichlorobenzene	45.5	
99-87-6	p-Isopropyltoluene	46.4	
106-46-7	1,4-Dichlorobenzene	44.3	
95-50-1	1,2-Dichlorobenzene	45.9	
104-51-8	n-Butylbenzene	46.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-365
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

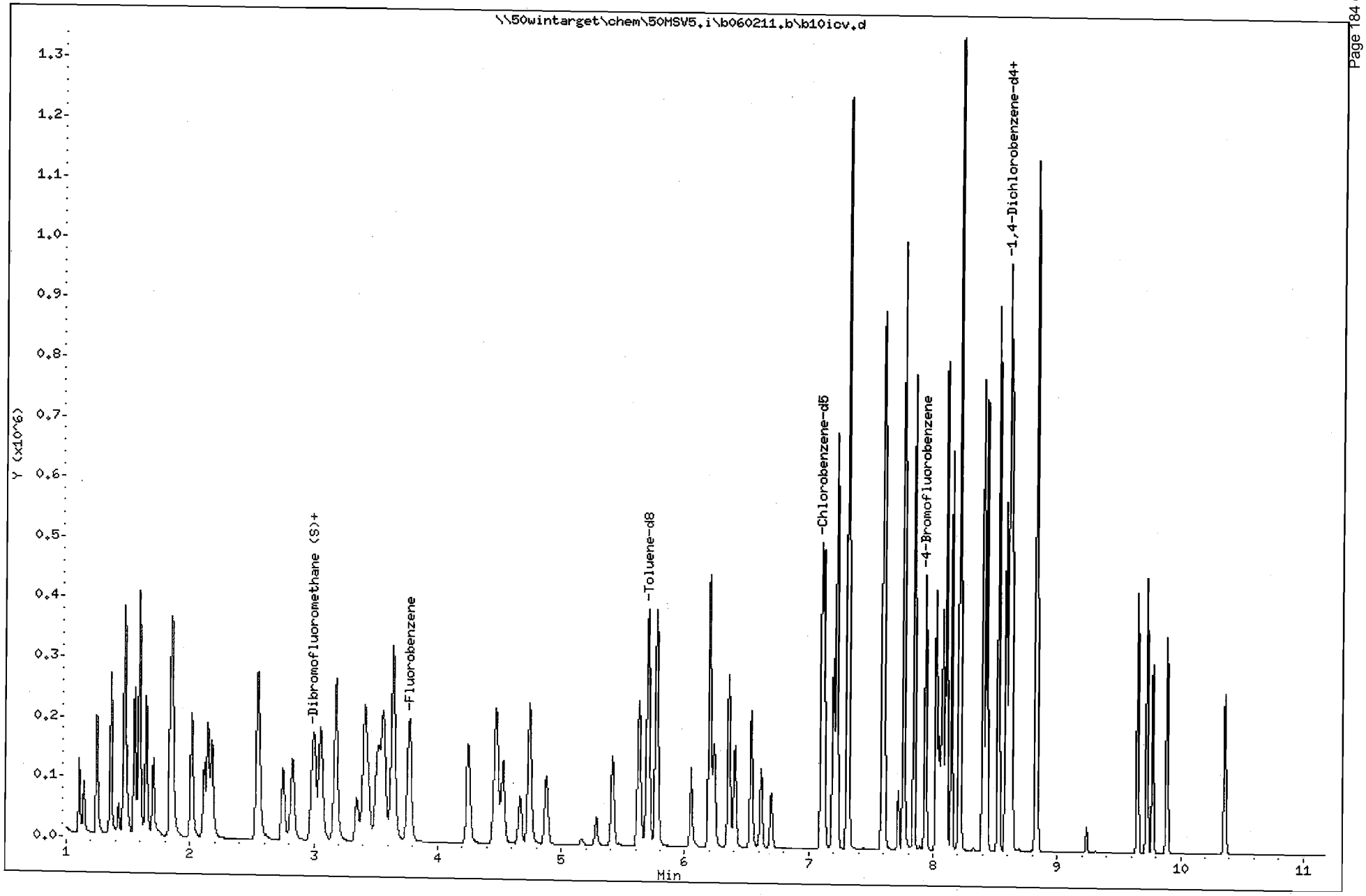
Client SDG: b060211.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: heb

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	42.9	
120-82-1	1,2,4-Trichlorobenzene	42.5	
87-68-3	Hexachlorobutadiene	39.5	
91-20-3	Naphthalene	48.0	
87-61-6	1,2,3-Trichlorobenzene	44.1	
	2,methyl-naphthalene	37.4	
1868-53-7	Dibromofluoromethane (S)	51.6	
2037-26-5	Toluene-d8	49.6	
460-00-4	4-Bromofluorobenzene	50.7	

Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b10icv.d
Date : 02-JUN-2011 20:18
Client ID: icv
Sample Info: icv 34D-365
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: heb
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060211.b\b10icv.d

Date : 02-JUN-2011 20:18

Client ID: icv

Instrument: 50MSV5.i

Sample Info: icv 34D-365

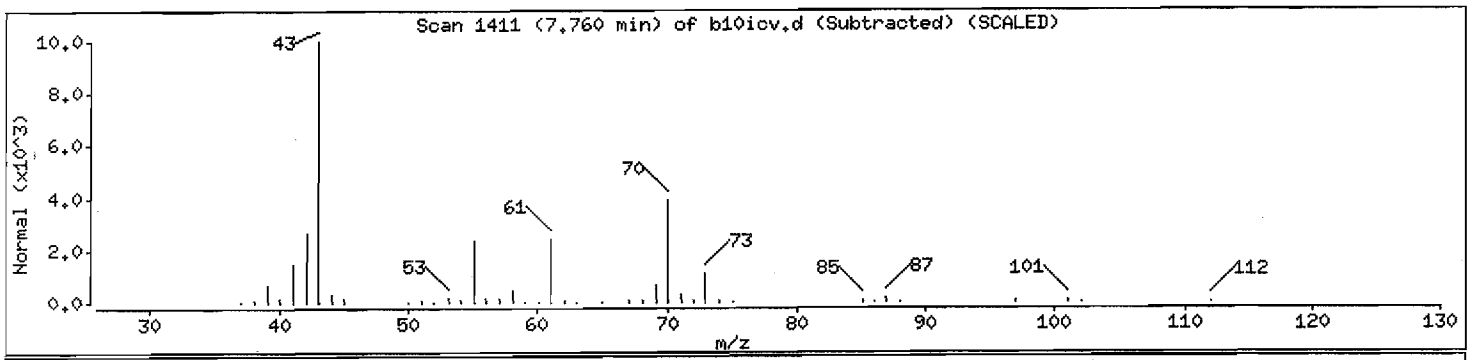
Purge Volume: 5.0

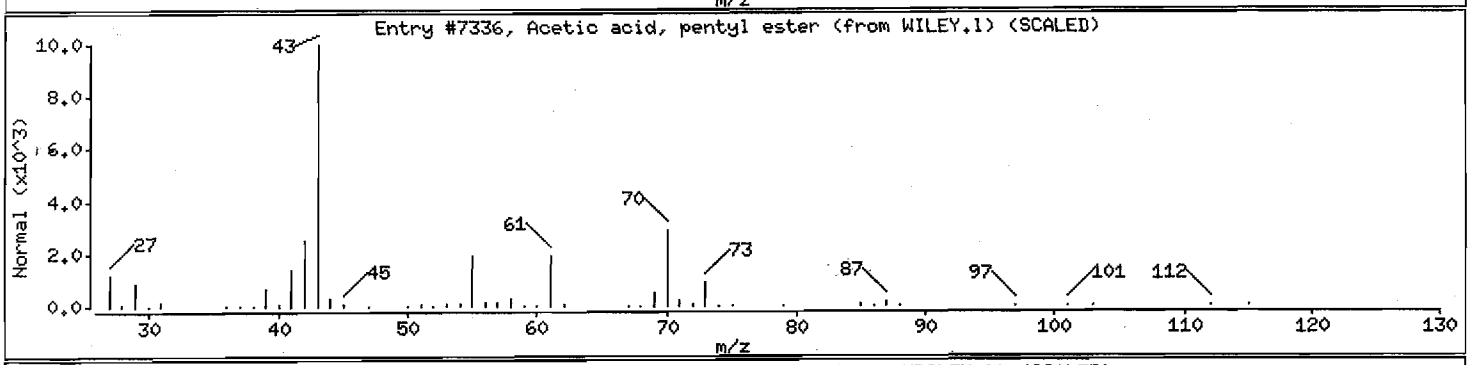
Operator: heb

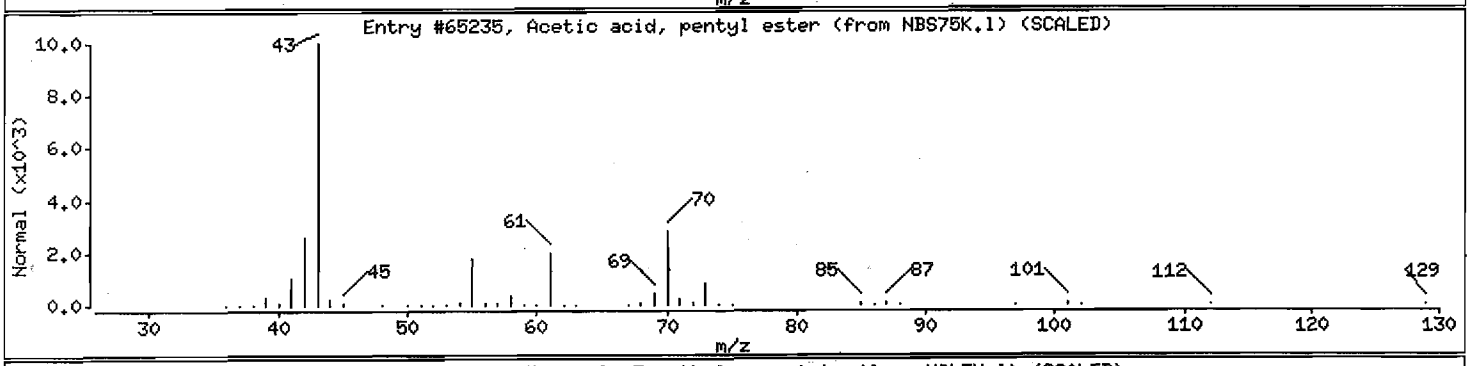
Column phase: DB-624

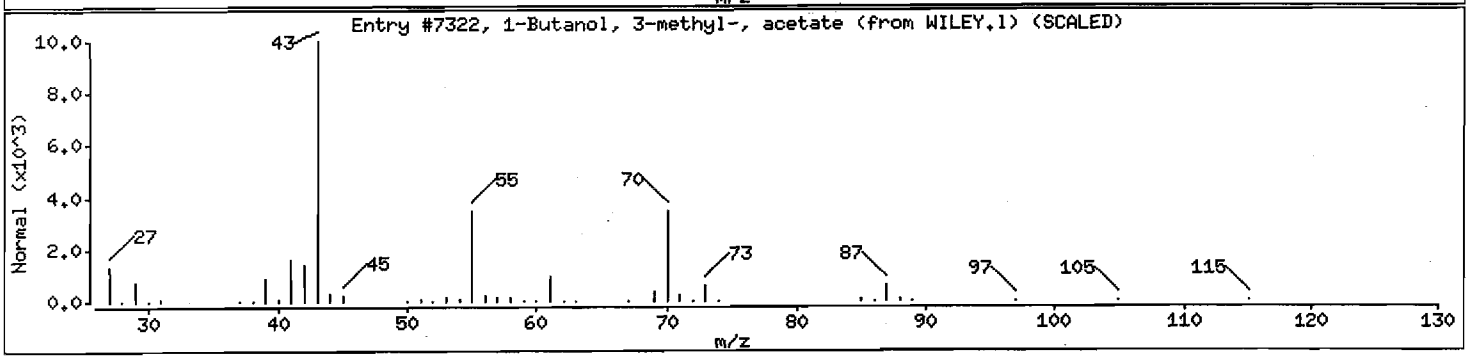
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY.l	7336	90	C7H14O2	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65235	90	C7H14O2	130
1-Butanol, 3-methyl-, acetate	123-92-2	WILEY.l	7322	38	C7H14O2	130









Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Calibration File Names:
Level 1: \\50wintarget\chem\50MSV1.i\a061011.b\a01.d
Level 2: \\50wintarget\chem\50MSV1.i\a061011.b\a02.d
Level 3: \\50wintarget\chem\50MSV1.i\a061011.b\a03.d
Level 4: \\50wintarget\chem\50MSV1.i\a061011.b\a04.d
Level 5: \\50wintarget\chem\50MSV1.i\a061011.b\a05.d
Level 6: \\50wintarget\chem\50MSV1.i\a061011.b\a06.d
Level 7: \\50wintarget\chem\50MSV1.i\a061011.b\a07.d
Level 8: \\50wintarget\chem\50MSV1.i\a061011.b\a08.d

All CCC<30% RSD. RSW 6/11/11

Compound	1.0000 Level 1	2.0000 Level 2	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
1 Dichlorodifluoromethane	+++++	0.42230	0.41147	0.51675	0.40694	0.52758					
	0.52124	0.53709					AVRG		0.47762		12.64892
2 Chloromethane SPCC	+++++	766	1982	5630	7979	27627					
	93673	211879					LINR	0.13877	0.57653		0.99639
3 Vinyl Chloride CCC	+++++	0.26632	0.29361	0.36658	0.30450	0.36806					
	0.36551	0.35478					AVRG		0.33134		12.73251

RF 0.399

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
4 Bromomethane	+++++ / 37172	98.00000 / +++++	592	1816	3511	12862	LINR	0.07248	0.20690		0.99875
5 Chloroethane	+++++ / 0.17570	+++++ / 0.16609	0.13237	0.18251	0.12793	0.18179	AVRG		0.16106		15.33558
6 Trichlorofluoromethane	0.31189 / 0.49290	0.40397 / 0.48548	0.43272	0.48694	0.39870	0.50866	AVRG		0.44016		15.18046
28 1,2-dichlorotrifluoroethane	+++++ / 0.31342	0.28353 / 0.30381	0.29391	0.39208	0.40768	0.33547	AVRG		0.33284		14.65938
7 Diethyl ether	+++++ / 0.09216	+++++ / 0.08792	0.08018	0.10557	0.10731	0.09800	AVRG		0.09519		11.01524
8 Acrolein	+++++ / 0.01477	0.01270 / 0.01379	0.01182	0.01394	0.01164	0.01474	AVRG		0.01334		9.75065
9 1,1-Dichloroethene	+++++ / 0.23336	+++++ / 0.22439	0.20244	0.27729	0.29250	0.22812	AVRG		0.24302		14.17349

2-150ppb

CCC

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1	2.0000 Level 2	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
10 1,1,2trichlorotrifluoroethane	+++++	+++++	0.22985	0.29097	0.34059	0.25813					
	0.26459	0.24504					AVRG		0.27153		14.55976
11 Acetone	672	759	1468	2711	5271	9024					
	25186	47295					LINR	-0.52979	0.02545		0.99881
12 Iodomethane	+++++	+++++	445	2821	8345	21218					
	55630	+++++					LINR	0.06283	0.15426		0.99799
142 Acetonitrile	620	1592	3987	9414	20409	38937					
	97575	157566					LINR	-3.05830	0.02201		0.98620
13 Carbon Disulfide	1446	3770	9915	24291	53707	97329					
	275418	490845					LINR	-0.15407	0.67348		0.99623
138 Methyl Acetate	+++++	106	624	1446	2608	4843					
	15067	26745					LINR	-0.07140	0.07337		0.99612
14 allyl chloride	620	1592	3986	9414	20409	38937					
	97573	+++++					LINR	-0.10841	0.26424		0.99596

10-300ppb

a-300ppb

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 Methylene Chloride	0.29086	0.31382	0.23175	0.28034	0.29723	0.22128					
	0.22878	0.21479					AVRG		0.25986		15.23073
16 Acrylonitrile	570	1952	5008	11859	23873	44810					
	132480	233657					LINR	-1.38692	0.03216		0.99592
27 Propionitrile	+++++	+++++	+++++	+++++	0.01234	+++++					
	0.01975	0.01657					AVRG		0.01622		22.91647 <- NTC
17 tert-Butyl Alcohol	+++++	+++++	+++++	0.01346	0.01214	0.01124					
	0.01287	0.01248					AVRG		0.01244		6.66151
18 1,2-Dichloroethene (trans)	+++++	0.22966	0.22912	0.27893	0.30709	0.24293					
	0.24382	0.21439					AVRG		0.24942		12.99099
19 Methyl-tert-butyl ether	947	2740	6689	14816	30494	57007					
	164018	287928					LINR	-0.16456	0.39599		0.99561
20 n-Hexane	+++++	+++++	0.30168	0.37840	0.43505	0.32888					
	0.33415	0.32032					AVRG		0.34975		13.97972

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
146 Chloroprene	+++++	0.37928	0.32484	0.40881	0.46453	0.38047					
	0.44877	0.37434					AVRG		0.39729		12.02191
21 1,1-Dichloroethane	+++++	0.50122	0.40033	0.48776	0.54041	0.42612					
SPCL	0.49431	0.42028					AVRG		0.46720		11.06498
23 Vinyl Acetate	1271	3888	7200	16979	36411	66442					
	253566	+++++					LINR	0.18139	0.34422		0.99191
25 1,2-Dichloroethene (cis)	+++++	+++++	0.28819	0.35520	0.41078	0.32162					
	0.33883	0.31159					AVRG		0.33770		12.59106
24 2,2-Dichloropropane	+++++	+++++	0.35591	0.46560	0.54007	0.42022					
	0.45167	0.42048					AVRG		0.44233		13.79502
26 2-Butanone	+++++	0.07040	0.06391	0.08360	0.08385	0.06320					
	0.06615	0.05676					AVRG		0.06970		14.93199
143 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	0.00771					
	0.00761	+++++					AVRG		0.00766		0.94705

4-bromo-fluorobenzene

NTL

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Bromochloromethane	+++++	200	908	2728	5801	10127					
	25456	47053					LINR	-0.12601	0.12702		0.99677
30 Tetrahydrofuran	+++++	0.11670	0.06978	0.07181	0.06287	0.04499					
	0.04715	0.03988					AVRG		0.06474		40.35822 <- NTC
31 Chloroform CCC	+++++	0.53713	0.54897	0.63964	0.71373	0.56716					
	0.59217	0.54002					AVRG		0.59126		10.97525
33 1,1,1-Trichloroethane	+++++	+++++	0.37409	0.48278	0.56346	0.46504					
	0.48934	0.47623					AVRG		0.47515		12.75802
139 Cyclohexane	+++++	1076	2706	7527	17399	34056					
	92695	175425					LINR	-0.05695	0.47621		0.99878
37 Isobutyl alcohol	+++++	+++++	+++++	489	1550	3488					
	9624	18366					LINR	-0.03849	0.04990		0.99899 NTC
36 1,1-Dichloropropene	+++++	985	2662	7023	16082	30586					
	82152	156072					LINR	-0.06686	0.42258		0.99879

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
35 Carbon Tetrachloride	+++++	231	1531	4674	11055	22612					
	66524	131366					LINR	0.00623	0.35728		0.99972
144 isopropyl acetate	+++++	+++++	+++++	+++++	+++++	0.02738					
	0.02895	0.02870					AVRG		0.02834		2.96774
147 2,2,4-Trimethylpentane	+++++	1.08473	1.04003	1.37629	1.53751	1.17124					
	1.19697	1.11166					AVRG		1.21692		14.64247
38 Benzene	+++++	1.29158	1.17152	1.45948	1.52923	1.17278					
	1.25219	1.14197					AVRG		1.28839		11.73097
39 1,2-Dichloroethane	+++++	+++++	0.27324	0.34056	0.36996	0.28728					
	0.31104	0.27572					AVRG		0.30963		12.56883
41 Trichloroethene	+++++	+++++	0.32102	0.40866	0.44055	0.35405					
	0.38539	0.36120					AVRG		0.37848		11.21464
140 Methylcyclohexane	+++++	0.38153	0.43023	0.53511	0.59837	0.49584					
	0.46943	0.43319					AVRG		0.47767		15.22594

NTL

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
42 1,2-Dichloropropane CCL	+++++	0.26856	0.25917	0.34435	0.37576	0.30883					
	0.32002	0.29121					AVRG		0.30970		13.35217
43 Dibromomethane	+++++	+++++	0.12870	0.16653	0.19272	0.14933					
	0.16059	0.14780					AVRG		0.15761		13.67139
44 Methyl methacrylate	+++++	+++++	638	1914	4512	8276					
	26776	50069					LINR	-0.01790	0.13698		0.99813
141 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 NTL
45 Bromodichloromethane	+++++	0.28914	0.31619	0.38925	0.45060	0.36645					
	0.42703	0.39416					AVRG		0.37612		15.30760
46 2-Chloroethyl vinyl ether	+++++	+++++	0.09111	0.09680	0.11676	0.07236					
	0.06278	0.07470					AVRG		0.08575		22.98061 <- NTL
47 cis-1,3-Dichloropropene	+++++	+++++	0.46228	0.55731	0.64880	0.55772					
	0.60251	0.55124					AVRG		0.56331		11.01923

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
48 4-Methyl-2-Pentanone	1030	3191	6932	16611	31186	56445					
	164068	302716					LINR	-0.37066	0.18665		0.99876
50 Toluene CCC	2.11438	1.85509	1.70292	1.95885	2.17067	1.64759					
	1.52456	1.43106					AVRG		1.80064		14.97747
51 trans-1,3-Dichloropropene	+++++	+++++	0.36216	0.43695	0.52781	0.40357					
	0.46743	0.45217					AVRG		0.44168		12.80340
52 Ethyl Methacrylate	+++++	0.33836	0.35757	0.44304	0.46287	0.36703					
	0.36838	0.35862					AVRG		0.38512		12.38628
53 1,1,2-Trichloroethane	+++++	0.22543	0.22496	0.28840	0.30438	0.24582					
	0.24892	0.21963					AVRG		0.25108		13.20494
54 Tetrachloroethene	+++++	0.51433	0.50713	0.61568	0.67836	0.54189					
	0.53099	0.47520					AVRG		0.55194		12.78903
55 1,3-Dichloropropane	+++++	0.45699	0.46758	0.51579	0.57320	0.44696					
	0.43208	0.38761					AVRG		0.46860		12.82337

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
56 2-Hexanone	674	2528	4910	13071	21807	40821					
	119987	217092					LINR	-0.40528	0.13425		0.99829
57 Dibromochloromethane	+++++	+++++	0.20554	0.27787	0.32622	0.26722					
	0.30662	0.30096					AVRG		0.28074		15.10671
58 1,2-Dibromoethane	+++++	+++++	0.25675	0.29530	0.33916	0.25946					
	0.27421	0.26090					AVRG		0.28096		11.35514
60 Chlorobenzene SPCC	0.89410	1.26679	1.11350	1.29261	1.41122	1.11147					
	1.09402	1.00448					AVRG		1.14852		14.52498
61 1,1,1,2-Tetrachloroethane	+++++	0.28146	0.28288	0.34003	0.39073	0.31258					
	0.34882	0.33798					AVRG		0.32778		11.84971
62 Ethylbenzene CCC	453	1407	3431	9047	19396	34074					
	97139	172989					LINR	-0.08576	0.53729		0.99705
63 m&p-Xylene	1606	3769	9130	21501	44995	83157					
	229647	386089					LINR	-0.23883	0.60531		0.99354

Avg % RSD 29.77

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
65 o-Xylene	+++++	0.83913	0.79796	0.93408	0.98840	0.74613					
	0.73567	0.65960					AVRG		0.81442		14.20494
66 Styrene	1060	3296	7509	17872	36001	65706					
	183702	314366					LINR	-0.11287	0.98166		0.99497
67 Bromoform SPU	+++++	233	795	2063	4506	9315					RF 0.338
	33946	67924					LINR	0.08775	0.45357		0.99836
68 Isopropylbenzene	+++++	2.37030	2.22966	2.49009	2.68778	2.06542					
	1.93508	1.79099					AVRG		2.22419		14.25853
145 n-amyl acetate	+++++	+++++	+++++	+++++	+++++	+++++					NTL
	+++++	+++++					AVRG		0.000e+000		0.000e+000
69 trans-1,4-Dichloro-2-butene	+++++	99.00000	373	1037	2068	4001					
	13204	23914					LINR	-0.02609	0.07459		0.99828
72 1,1,2,2-Tetrachloroethane SPU	+++++	+++++	0.79436	0.93190	0.88575	0.66622					
	0.76754	0.68800					AVRG		0.78896		13.35977

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
71 Bromobenzene	+++++	1.12277	0.98902	1.06217	1.09189	0.84042					
	0.86255	0.79431					AVRG		0.96616		13.76710
73 1,2,3-Trichloropropane	+++++	0.92638	0.68129	0.91346	0.87472	0.66930					
	0.82400	0.72765					AVRG		0.80240		13.59247
74 n-Propylbenzene	4.09972	5.41574	4.69302	5.84095	6.50655	5.00606					
	5.09694	4.42471					AVRG		5.13546		15.16936
75 2-Chlorotoluene	+++++	3.60185	2.99736	3.55627	3.68677	2.88044					
	3.06935	2.63733					AVRG		3.20420		12.75442
76 4-Chlorotoluene	+++++	1.00735	0.87907	1.04760	1.13577	0.89561					
	0.98074	0.87798					AVRG		0.97488		10.00798
77 1,3,5-Trimethylbenzene	+++++	3.52897	3.17034	3.78342	4.13241	3.19135					
	3.33980	2.77442					AVRG		3.41725		13.02813
78 tert-Butylbenzene	+++++	3.75814	3.46573	4.04177	4.67165	3.44413					
	3.75473	3.28999					AVRG		3.77516		12.40655

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,2,4-Trimethylbenzene	+++++	3.65773	3.33655	3.79429	4.29646	3.24218					
	3.33831	2.82328					AVRG		3.49840		13.42300
80 sec-Butylbenzene	3.59391	4.95741	4.37959	5.19404	5.78756	4.51322					
	4.69791	4.15490					AVRG		4.65982		14.36915
81 1,3-Dichlorobenzene	+++++	2.61555	2.04420	2.22967	2.38815	1.75030					
	1.94583	1.76985					AVRG		2.10622		15.30564
83 p-Isopropyltoluene	+++++	4.07962	3.57106	4.17166	4.63652	3.49842					
	3.45619	3.12128					AVRG		3.79068		13.78235
84 1,4-Dichlorobenzene	+++++	2.52891	1.97880	2.18947	2.19032	1.68001					
	1.87146	1.66447					AVRG		2.01478		15.46202
86 n-Butylbenzene	+++++	4.06747	3.54851	4.24149	4.77841	3.70717					
	3.94654	3.45661					AVRG		3.96374		11.50291
85 1,2-Dichlorobenzene	+++++	+++++	1.85253	2.04272	2.09519	1.62052					
	1.70336	1.52443					AVRG		1.80646		12.76926

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
88 1,2,4-Trichlorobenzene	+++++	1.89405	1.44537	1.64187	1.65991	1.30257					
	1.60245	1.48668					AVRG		1.57613		11.95545
91 1,2,3-Trichlorobenzene	0.97247	1.54828	1.23180	1.38383	1.38180	1.06881					
	1.25600	1.21654					AVRG		1.25744		14.57585
87 1,2-Dibromo-3-chloropropane	+++++	+++++	243	805	1797	3580					
	10477	19727					LINR	-0.00811	0.13115		0.99886
89 Hexachlorobutadiene	+++++	1.22680	0.97636	1.16803	1.27436	1.01015					
	1.09750	1.04025					AVRG		1.11335		10.16161
90 Naphthalene	2.05769	2.82609	2.13890	2.57913	2.41293	1.83882					
	2.12503	2.03362					AVRG		2.25153		14.51438
92 2,methyl-naphthalene	1.25121	1.71266	1.30396	1.57409	1.54364	1.18799					
	1.35585	1.27382					AVRG		1.40040		13.30112
$ 32 Dibromofluoromethane (S)	0.22678	0.23114	0.22684	0.23434	0.23007	0.23315					
	0.22798	0.22208					AVRG		0.22905		1.73051

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Compound	1.0000 Level 1	2.0000 Level 2	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
$ 49 Toluene-d8	1.14698	1.22350	1.20026	1.14274	1.20611	1.18752					
	1.09504	1.11254					AVRG		1.16434		4.01880
$ 70 4-Bromofluorobenzene	0.47487	0.48493	0.51197	0.48551	0.47731	0.47050					
	0.46216	0.47456					AVRG		0.48023		3.09660

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:32
End Cal Date : 10-JUN-2011 17:43
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Last Edit : 11-Jun-2011 14:13 rwrede

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a00bfb.d
Lab Smp Id: bfb050 34D-354 Client Smp ID: bfb050
Inj Date : 10-JUN-2011 12:58 MS Autotune Date: 21-AUG-1992 10:13
Operator : rsw Inst ID: 50MSV1.i
Smp Info : bfb 34D-354
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-bfb390.m
Meth Date : 31-May-2011 14:51 rwrede Quant Type: ISTD
Cal Date : 25-MAY-2001 16:00 Cal File: 0201002.D
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.108	8.417	(0.000)	95	22824			100.00- 100.00	100.00
8.108	8.417	(0.000)	50	4008			15.00- 40.00	17.56
8.108	8.417	(0.000)	75	10886			30.00- 60.00	47.70
8.108	8.417	(0.000)	96	1639			5.00- 9.00	7.18
8.108	8.417	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.108	8.417	(0.000)	174	16776			50.00- 100.00	73.50
8.108	8.417	(0.000)	175	1317			5.00- 9.00	7.85
8.108	8.417	(0.000)	176	16856			95.00- 101.00	100.48
8.108	8.417	(0.000)	177	1179			5.00- 9.00	6.99
8.108	8.417	(0.000)	95	22824			100.00- 100.00	100.00

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a00bfb.d

Date : 10-JUN-2011 12:58

Client ID: bfb050

Instrument: 50MSV1.i

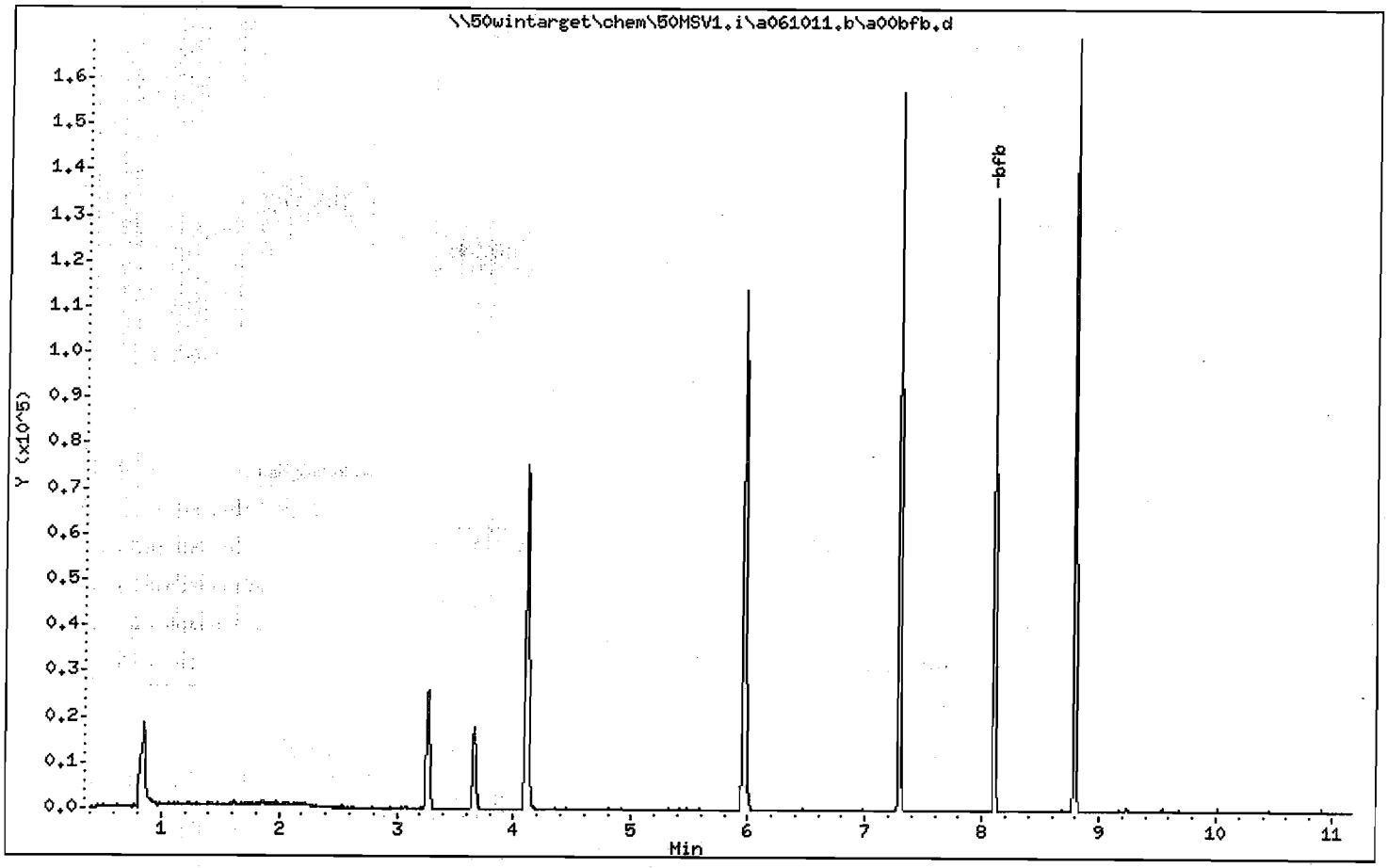
Sample Info: bfb 34D-354

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a00bfb.d

Date : 10-JUN-2011 12:58

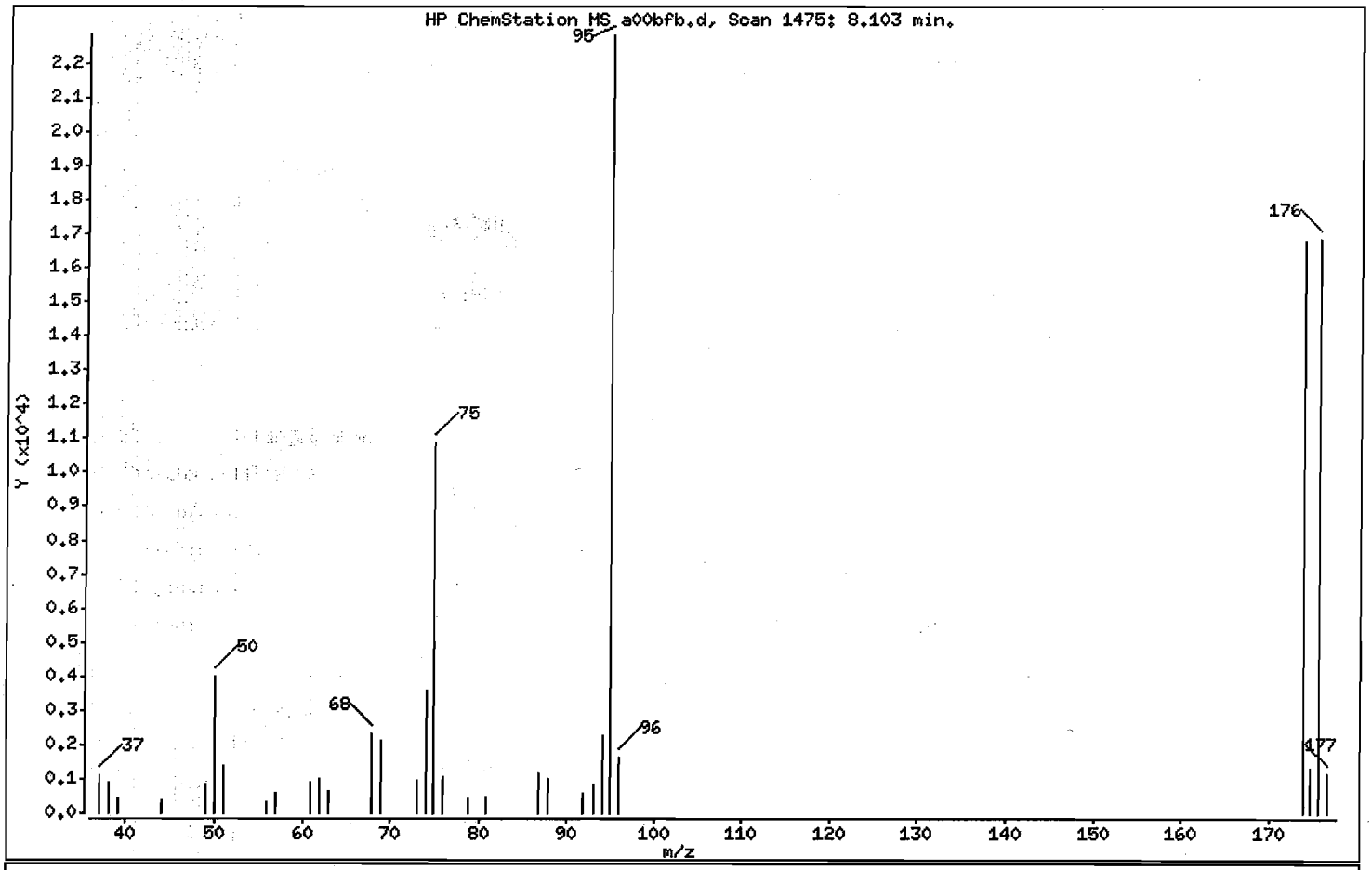
Client ID: bfb050 Instrument: 50MSV1.i

Sample Info: bfb 34D-354

Volume Injected (uL): 1.0 Operator: rsw

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.56
75	30.00 - 60.00% of mass 95	47.70
96	5.00 - 9.00% of mass 95	7.18
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	73.50
175	5.00 - 9.00% of mass 174	5.77 (7.85)
176	95.00 - 101.00% of mass 174	73.85 (100.48)
177	5.00 - 9.00% of mass 176	5.17 (6.99)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a00bfb.d

Date : 10-JUN-2011 12:58

Client ID: bfb050 Instrument: 50MSV1.i

Sample Info: bfb 34D-354

Volume Injected (uL): 1.0 Operator: rsw

Column phase: Column diameter: 2.00

Data File: a00bfb.d

Spectrum: HP ChemStation MS a00bfb.d, Scan 1475: 8.103 min.

Location of Maximum: 95.00

Number of points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1122	57.00	553	75.00	10886	94.00	2268
38.00	918	61.00	892	76.00	1026	95.00	22824
39.00	439	62.00	973	78.90	414	96.00	1639
44.00	365	63.00	655	80.90	464	173.90	16776
49.00	843	68.00	2306	86.90	1152	174.90	1317
50.00	4008	69.00	2087	87.90	997	175.90	16856
51.00	1344	73.00	939	91.90	595	176.90	1179
56.00	306	74.00	3566	93.00	833		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a01.d
Lab Smp Id: 1ppb 34D-407/394 Client Smp ID: 1ppb
Inj Date : 10-JUN-2011 13:32
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 1ppb 34D-407/394
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 20:15 Cal File: a08.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.918	0.921	(0.223)	253	1.00000	0.384 (QM)
2 Chloromethane	50	0.725	1.026	(0.176)	0	1.00000	6.94 (TQM)
3 Vinyl Chloride	62	1.049	1.047	(0.254)	94	1.00000	0.206 (QM)
6 Trichlorofluoromethane	101	1.357	1.355	(0.329)	430	1.00000	0.708 (QM)
28 1,2-dichlorotrifluoroethane	67	1.478	1.476	(0.358)	230	1.00000	0.501 (QM)
11 Acetone	43	1.619	1.622	(0.393)	672	5.00000	(M)
142 Acetonitrile	41	1.792	1.795	(0.434)	620	20.0000	(QM)
13 Carbon Disulfide	76	1.739	1.742	(0.422)	1446	2.00000	(M)
14 allyl chloride	41	1.792	1.795	(0.434)	620	2.00000	(QM)
15 Methylene Chloride	84	1.865	1.863	(0.452)	401	1.00000	1.12 (QM)
16 Acrylonitrile	53	2.001	2.004	(0.485)	570	20.0000	(M)
19 Methyl-tert-butyl ether	73	2.032	2.035	(0.493)	947	2.00000	(M)
146 Chloroprene	53	2.388	2.391	(0.579)	96	1.00000	0.175 (QM)
21 1,1-Dichloroethane	63	2.315	2.318	(0.561)	215	1.00000	0.334 (QM)
23 Vinyl Acetate	43	2.351	2.349	(0.570)	1271	4.00000	11.7 (M)
31 Chloroform	83	3.109	3.107	(0.754)	331	1.00000	0.406 (QM)
$ 32 Dibromofluoromethane (S)	113	3.277	3.280	(0.795)	15633	50.0000	49.5
147 2,2,4-Trimethylpentane	57	3.894	3.892	(0.944)	627	1.00000	0.374 (QM)
38 Benzene	78	3.753	3.756	(0.910)	1298	1.00000	0.731 (M)
* 40 Fluorobenzene	96	4.124	4.122	(1.000)	68934	50.0000	
140 Methylcyclohexane	55	4.804	4.802	(1.165)	208	1.00000	0.316 (QM)
47 cis-1,3-Dichloropropene	75	5.693	5.691	(0.780)	96	1.00000	0.141 (QM)
48 4-Methyl-2-Pentanone	43	5.887	5.885	(0.807)	1030	5.00000	(QM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 49 Toluene-d8	98	5.976	5.979	(0.819)	69273	50.0000	49.2
50 Toluene	91	6.049	6.052	(0.829)	2554	1.00000	1.17
54 Tetrachloroethene	166	6.608	6.612	(0.905)	223	1.00000	0.334 (QM)
55 1,3-Dichloropropane	76	6.635	6.638	(0.909)	306	1.00000	0.541 (QM)
56 2-Hexanone	43	6.744	6.742	(0.924)	674	5.00000	(M)
* 59 Chlorobenzene-d5	117	7.299	7.302	(1.000)	60396	50.0000	
60 Chlorobenzene	112	7.320	7.323	(1.003)	1080	1.00000	0.778 (QM)
62 Ethylbenzene	106	7.414	7.417	(1.016)	453	1.00000	(QM)
63 m&p-Xylene	106	7.503	7.501	(1.028)	1606	2.00000	(QM)
65 o-Xylene	106	7.775	7.773	(1.065)	677	1.00000	0.688 (QM)
66 Styrene	104	7.790	7.783	(1.067)	1060	1.00000	
68 Isopropylbenzene	105	8.021	8.024	(1.099)	2020	1.00000	0.752
$ 70 4-Bromofluorobenzene	95	8.115	8.113	(1.112)	28680	50.0000	49.4
72 1,1,2,2-Tetrachloroethane	83	8.209	8.212	(0.933)	328	1.00000	0.651 (QM)
71 Bromobenzene	77	8.204	8.202	(1.124)	756	1.00000	0.648
73 1,2,3-Trichloropropane	75	8.230	8.228	(0.936)	111	1.00000	0.217 (QM)
74 n-Propylbenzene	91	8.277	8.275	(0.941)	2618	1.00000	0.798
75 2-Chlorotoluene	91	8.324	8.322	(0.946)	1442	1.00000	0.705
76 4-Chlorotoluene	126	8.324	8.327	(0.946)	262	1.00000	0.421 (Q)
77 1,3,5-Trimethylbenzene	105	8.387	8.385	(0.954)	1550	1.00000	0.710
78 tert-Butylbenzene	119	8.575	8.573	(0.975)	1604	1.00000	0.665 (M)
79 1,2,4-Trimethylbenzene	105	8.601	8.599	(0.978)	1605	1.00000	0.718 (M)
80 sec-Butylbenzene	105	8.695	8.698	(0.989)	2295	1.00000	0.771 (M)
81 1,3-Dichlorobenzene	146	8.758	8.756	(0.996)	1059	1.00000	0.787
83 p-Isopropyltoluene	119	8.779	8.777	(0.998)	1774	1.00000	0.733
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.793	(1.000)	31929	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.810	8.808	(1.002)	1046	1.00000	0.813
86 n-Butylbenzene	91	8.999	8.997	(1.023)	1745	1.00000	0.689 (M)
85 1,2-Dichlorobenzene	146	9.009	9.007	(1.024)	855	1.00000	0.741
88 1,2,4-Trichlorobenzene	180	9.830	9.828	(1.118)	618	1.00000	0.614 (M)
91 1,2,3-Trichlorobenzene	180	10.086	10.084	(1.147)	621	1.00000	0.773 (M)
89 Hexachlorobutadiene	225	9.914	9.907	(1.127)	381	1.00000	0.536 (QM)
90 Naphthalene	128	9.961	9.959	(1.133)	1314	1.00000	0.914 (M)
92 2,methyl-naphthalene	142	10.583	10.581	(1.203)	799	1.00000	0.893 (QM)

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a01.d
Lab Smp Id: 1ppb 34D-407/394
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 1ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	68934	5.10
59 Chlorobenzene-d5	56159	28080	112318	60396	7.54
82 1,4-Dichlorobenze	28863	14432	57726	31929	10.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.05
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.03

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb 34D-407/394
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.384	
74-87-3	Chloromethane	6.94	
75-01-4	Vinyl Chloride	0.206	
75-69-4	Trichlorofluoromethane	0.708	
354-23-4	1,2-dichlorotrifluoroethane	0.501	
67-64-1	Acetone	0.000	
75-05-8	Acetonitrile	0.000	
75-15-0	Carbon Disulfide	0.000	
107-05-1	allyl chloride	0.000	
75-09-2	Methylene Chloride	1.12	
107-13-1	Acrylonitrile	0.000	
1634-04-4	Methyl-tert-butyl ether	0.000	
126-99-8	Chloroprene	0.175	
75-34-3	1,1-Dichloroethane	0.334	
108-05-4	Vinyl Acetate	11.7	
67-66-3	Chloroform	0.406	
540-84-1	2,2,4-Trimethylpentane	0.374	
71-43-2	Benzene	0.731	
108-87-2	Methylcyclohexane	0.316	
10061-01-5	cis-1,3-Dichloropropene	0.141	
108-10-1	4-Methyl-2-Pentanone	0.000	
108-88-3	Toluene	1.17	
127-18-4	Tetrachloroethene	0.334	
142-28-9	1,3-Dichloropropane	0.541	
591-78-6	2-Hexanone	0.000	
108-90-7	Chlorobenzene	0.778	
100-41-4	Ethylbenzene	0.000	
7816-60-0	m&p-Xylene	0.000	
95-47-6	o-Xylene	0.688	
100-42-5	Styrene	0.000	
98-82-8	Isopropylbenzene	0.752	
79-34-5	1,1,2,2-Tetrachloroethane	0.651	
108-86-1	Bromobenzene	0.648	
96-18-4	1,2,3-Trichloropropane	0.217	
103-65-1	n-Propylbenzene	0.798	
95-49-8	2-Chlorotoluene	0.705	
106-43-4	4-Chlorotoluene	0.421	
108-67-8	1,3,5-Trimethylbenzene	0.710	
98-06-6	tert-Butylbenzene	0.665	
95-63-6	1,2,4-Trimethylbenzene	0.718	
135-98-8	sec-Butylbenzene	0.771	
541-73-1	1,3-Dichlorobenzene	0.787	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb 34D-407/394
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

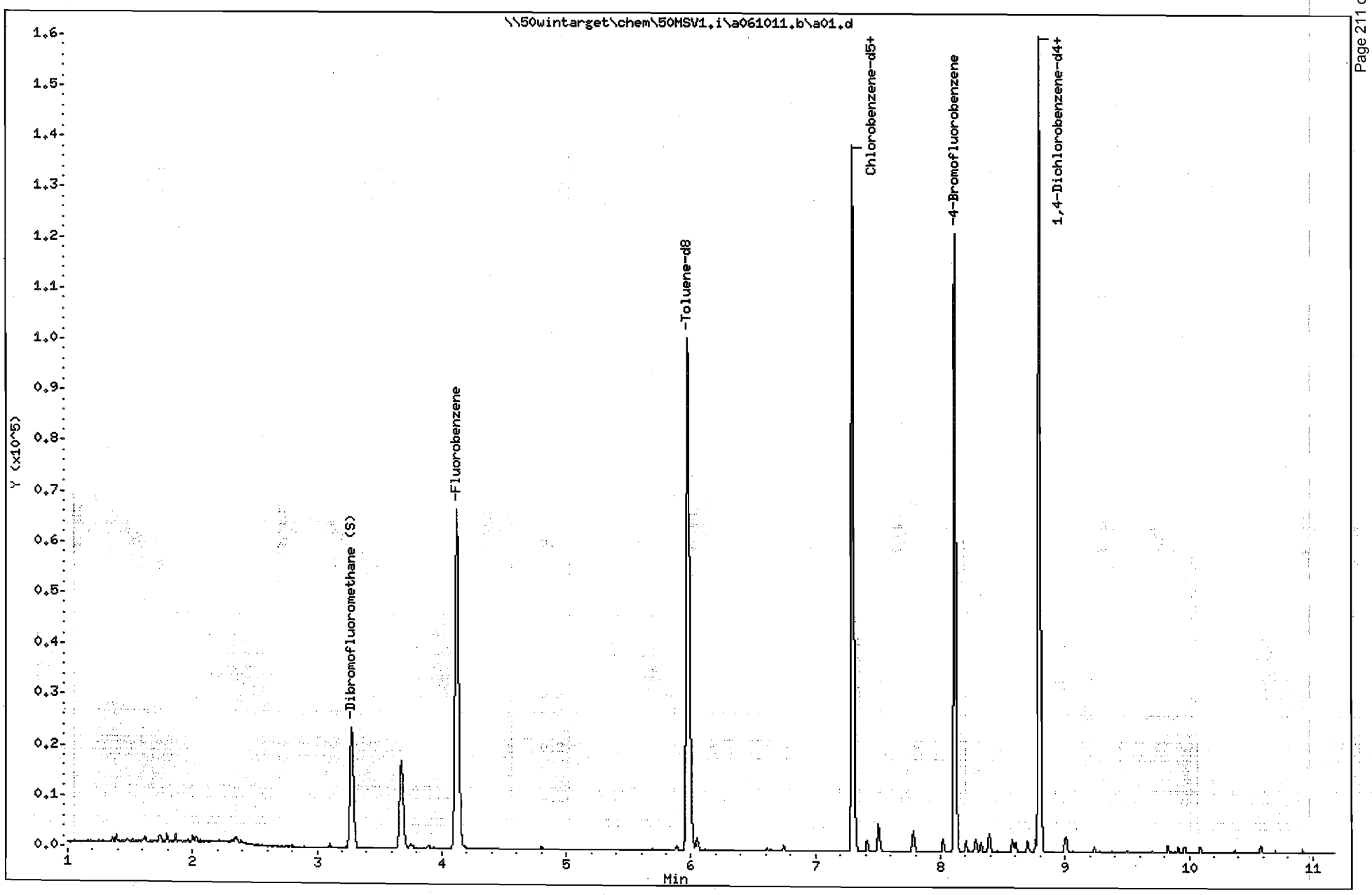
Client SDG: a061011.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
99-87-6	p-Isopropyltoluene	0.733	
106-46-7	1,4-Dichlorobenzene	0.813	
104-51-8	n-Butylbenzene	0.689	
95-50-1	1,2-Dichlorobenzene	0.741	
120-82-1	1,2,4-Trichlorobenzene	0.614	
87-61-6	1,2,3-Trichlorobenzene	0.773	
87-68-3	Hexachlorobutadiene	0.536	
91-20-3	Naphthalene	0.914	
	2,methyl-naphthalene	0.893	
1868-53-7	Dibromofluoromethane (S)	49.5	
2037-26-5	Toluene-d8	49.2	
460-00-4	4-Bromofluorobenzene	49.4	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a01.d
Date : 10-JUN-2011 13:32
Client ID: 1ppb
Sample Info: 1ppb 34D-407/394
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a02.d
Lab Smp Id: 2ppb
Client Smp ID: 2ppb
Inj Date : 10-JUN-2011 14:10
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 2ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:15
Cal File: a08.d
Als bottle: 5
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.921	0.921	(0.224)	1129	2.00000	1.77(M)
2 Chloromethane	50	1.025	1.026	(0.249)	766	2.00000	7.93(TM)
3 Vinyl Chloride	62	1.046	1.047	(0.254)	712	2.00000	1.61(M)
4 Bromomethane	94	1.198	1.193	(0.291)	98	2.00000	3.98(QM)
5 Chloroethane	64	1.240	1.240	(0.301)	210	2.00000	0.975(QM)
6 Trichlorofluoromethane	101	1.355	1.355	(0.329)	1080	2.00000	1.84(QM)
28 1,2-dichlorotrifluoroethane	67	1.475	1.476	(0.358)	758	2.00000	1.70(QM)
8 Acrolein	56	1.543	1.544	(0.374)	679	40.0000	38.1
9 1,1-Dichloroethene	96	1.606	1.606	(0.390)	525	2.00000	1.62(M)
10 1,1,2trichlorotrifluoroethane	101	1.601	1.601	(0.388)	505	2.00000	1.39(M)
11 Acetone	43	1.622	1.622	(0.394)	759	10.0000	(M)
142 Acetonitrile	41	1.794	1.795	(0.435)	1592	40.0000	(QM)
13 Carbon Disulfide	76	1.737	1.742	(0.421)	3770	4.00000	(M)
138 Methyl Acetate	43	1.800	1.800	(0.437)	106	2.00000	(M)
14 allyl chloride	41	1.794	1.795	(0.435)	1592	4.00000	(QM)
15 Methylene Chloride	84	1.862	1.863	(0.452)	839	2.00000	2.42(M)
16 Acrylonitrile	53	2.003	2.004	(0.486)	1952	40.0000	(M)
18 1,2-Dichloroethene (trans)	96	2.030	2.030	(0.492)	614	2.00000	1.84
19 Methyl-tert-butyl ether	73	2.035	2.035	(0.494)	2740	4.00000	(M)
20 n-Hexane	57	2.213	2.213	(0.537)	737	2.00000	1.58(M)
146 Chloroprene	53	2.391	2.391	(0.580)	1014	2.00000	1.91(QM)
21 1,1-Dichloroethane	63	2.317	2.318	(0.562)	1340	2.00000	2.14(M)
23 Vinyl Acetate	43	2.349	2.349	(0.570)	3888	8.00000	17.5(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	25 1,2-Dichloroethene (cis)	96	2.793	2.794	(0.678)	634	2.00000	1.40 (M)
	24 2,2-Dichloropropane	77	2.798	2.794	(0.679)	866	2.00000	1.46 (M)
	26 2-Butanone	43	2.809	2.809	(0.682)	941	10.0000	10.1 (M)
	29 Bromochloromethane	49	3.023	3.024	(0.734)	200	2.00000	(QM)
	30 Tetrahydrofuran	42	3.086	3.086	(0.749)	312	2.00000	3.60 (QM)
	31 Chloroform	83	3.107	3.107	(0.754)	1436	2.00000	1.82 (Q)
$	32 Dibromofluoromethane (S)	113	3.280	3.280	(0.796)	15449	50.0000	50.4
	33 1,1,1-Trichloroethane	97	3.306	3.306	(0.802)	857	2.00000	1.35 (QM)
	139 Cyclohexane	56	3.379	3.374	(0.820)	1076	2.00000	
	36 1,1-Dichloropropene	75	3.499	3.505	(0.849)	985	2.00000	(QM)
	35 Carbon Tetrachloride	117	3.505	3.505	(0.850)	231	2.00000	0.795 (QM)
	147 2,2,4-Trimethylpentane	57	3.892	3.892	(0.944)	2900	2.00000	1.78 (M)
	38 Benzene	78	3.750	3.756	(0.910)	3453	2.00000	2.00 (M)
	39 1,2-Dichloroethane	62	3.777	3.777	(0.916)	459	2.00000	1.11 (QM)
*	40 Fluorobenzene	96	4.122	4.122	(1.000)	66837	50.0000	(M)
	41 Trichloroethene	95	4.582	4.582	(1.112)	707	2.00000	1.40
	140 Methylcyclohexane	55	4.807	4.802	(1.166)	1020	2.00000	1.60 (M)
	42 1,2-Dichloropropane	63	4.833	4.839	(1.173)	718	2.00000	1.73 (QM)
	43 Dibromomethane	93	4.969	4.969	(1.206)	105	2.00000	0.498 (QM)
	45 Bromodichloromethane	83	5.178	5.173	(1.256)	773	2.00000	1.54 (M)
	47 cis-1,3-Dichloropropene	75	5.691	5.691	(0.780)	886	2.00000	1.38 (M)
	48 4-Methyl-2-Pentanone	43	5.884	5.885	(0.806)	3191	10.0000	(QM)
$	49 Toluene-d8	98	5.978	5.979	(0.819)	69878	50.0000	52.5
	50 Toluene	91	6.052	6.052	(0.829)	4238	2.00000	2.06
	51 trans-1,3-Dichloropropene	75	6.308	6.308	(0.865)	667	2.00000	1.32 (QM)
	52 Ethyl Methacrylate	69	6.449	6.444	(0.884)	773	2.00000	1.76 (M)
	53 1,1,2-Trichloroethane	83	6.486	6.486	(0.889)	515	2.00000	1.80 (QM)
	54 Tetrachloroethene	166	6.611	6.612	(0.906)	1175	2.00000	1.86 (Q)
	55 1,3-Dichloropropane	76	6.637	6.638	(0.910)	1044	2.00000	1.95 (M)
	56 2-Hexanone	43	6.742	6.742	(0.924)	2528	10.0000	(M)
	57 Dibromochloromethane	129	6.831	6.836	(0.936)	535	2.00000	1.67 (Q)
	58 1,2-Dibromoethane	107	6.915	6.915	(0.948)	437	2.00000	1.36
*	59 Chlorobenzene-d5	117	7.296	7.302	(1.000)	57113	50.0000	
	60 Chlorobenzene	112	7.317	7.323	(1.003)	2894	2.00000	2.20
	61 1,1,1,2-Tetrachloroethane	131	7.391	7.391	(1.013)	643	2.00000	1.72
	62 Ethylbenzene	106	7.417	7.417	(1.016)	1407	2.00000	(QM)
	63 m&p-Xylene	106	7.506	7.501	(1.029)	3769	4.00000	(M)
	65 o-Xylene	106	7.778	7.773	(1.066)	1917	2.00000	2.06 (Q)
	66 Styrene	104	7.788	7.783	(1.067)	3296	2.00000	
	67 Bromoform	173	7.903	7.898	(0.899)	233	2.00000	5.22 (QM)
	68 Isopropylbenzene	105	8.023	8.024	(1.100)	5415	2.00000	2.13
	69 trans-1,4-Dichloro-2-butene	53	8.243	8.238	(1.130)	99	2.00000	(QM)
$	70 4-Bromofluorobenzene	95	8.112	8.113	(1.112)	27696	50.0000	50.5
	72 1,1,2,2-Tetrachloroethane	83	8.206	8.212	(0.933)	1256	2.00000	2.58 (QM)
	71 Bromobenzene	77	8.201	8.202	(1.124)	2565	2.00000	2.32
	73 1,2,3-Trichloropropane	75	8.233	8.228	(0.936)	1144	2.00000	2.31 (Q)
	74 n-Propylbenzene	91	8.280	8.275	(0.942)	6688	2.00000	2.11
	75 2-Chlorotoluene	91	8.327	8.322	(0.947)	4448	2.00000	2.25
	76 4-Chlorotoluene	126	8.327	8.327	(0.947)	1244	2.00000	2.07 (Q)
	77 1,3,5-Trimethylbenzene	105	8.384	8.385	(0.954)	4358	2.00000	2.06
	78 tert-Butylbenzene	119	8.573	8.573	(0.975)	4641	2.00000	1.99
	79 1,2,4-Trimethylbenzene	105	8.599	8.599	(0.978)	4517	2.00000	2.09 (M)
	80 sec-Butylbenzene	105	8.698	8.698	(0.989)	6122	2.00000	2.13 (M)
	81 1,3-Dichlorobenzene	146	8.761	8.756	(0.996)	3230	2.00000	2.48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
83 p-Isopropyltoluene	119	8.777	8.777	(0.998)	5038	2.00000	2.15
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.793	(1.000)	30873	50.0000	
84 1,4-Dichlorobenzene	146	8.808	8.808	(1.002)	3123	2.00000	2.51
86 n-Butylbenzene	91	8.996	8.997	(1.023)	5023	2.00000	2.05
85 1,2-Dichlorobenzene	146	9.012	9.007	(1.025)	3000	2.00000	2.69
88 1,2,4-Trichlorobenzene	180	9.833	9.828	(1.118)	2339	2.00000	2.40
91 1,2,3-Trichlorobenzene	180	10.089	10.084	(1.148)	1912	2.00000	2.46
89 Hexachlorobutadiene	225	9.911	9.907	(1.127)	1515	2.00000	2.20
90 Naphthalene	128	9.964	9.959	(1.133)	3490	2.00000	2.51
92 2,methyl-naphthalene	142	10.581	10.581	(1.203)	2115	2.00000	2.44

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a02.d
Lab Smp Id: 2ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 2ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	66837	1.90
59 Chlorobenzene-d5	56159	28080	112318	57113	1.70
82 1,4-Dichlorobenze	28863	14432	57726	30873	6.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.00
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	1.77	
74-87-3	Chloromethane	7.93	
75-01-4	Vinyl Chloride	1.61	
74-83-9	Bromomethane	3.98	
75-00-3	Chloroethane	0.975	
75-69-4	Trichlorofluoromethane	1.84	
354-23-4	1,2-dichlorotrifluoroethane	1.70	
107-02-8	Acrolein	38.1	
75-35-4	1,1-Dichloroethene	1.62	
76-13-1	1,1,2trichlorotrifluoroethan	1.39	
67-64-1	Acetone	0.000	
75-05-8	Acetonitrile	0.000	
75-15-0	Carbon Disulfide	0.000	
79-20-9	Methyl Acetate	0.000	
107-05-1	allyl chloride	0.000	
75-09-2	Methylene Chloride	2.42	
107-13-1	Acrylonitrile	0.000	
156-60-5	1,2-Dichloroethene (trans)	1.84	
1634-04-4	Methyl-tert-butyl ether	0.000	
	n-Hexane	1.58	
126-99-8	Chloroprene	1.91	
75-34-3	1,1-Dichloroethane	2.14	
108-05-4	Vinyl Acetate	17.5	
156-59-2	1,2-Dichloroethene (cis)	1.40	
594-20-7	2,2-Dichloropropane	1.46	
78-93-3	2-Butanone	10.1	
74-97-5	Bromochloromethane	0.000	
	Tetrahydrofuran	3.60	
67-66-3	Chloroform	1.82	
71-55-6	1,1,1-Trichloroethane	1.35	
110-82-7	Cyclohexane	0.000	
563-58-6	1,1-Dichloropropene	0.000	
56-23-5	Carbon Tetrachloride	0.795	
540-84-1	2,2,4-Trimethylpentane	1.78	
71-43-2	Benzene	2.00	
107-06-2	1,2-Dichloroethane	1.11	
79-01-6	Trichloroethene	1.40	
108-87-2	Methylcyclohexane	1.60	
78-87-5	1,2-Dichloropropane	1.73	
74-95-3	Dibromomethane	0.498	
75-27-4	Bromodichloromethane	1.54	
10061-01-5	cis-1,3-Dichloropropene	1.38	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-10-1	4-Methyl-2-Pentanone	0.000	
108-88-3	Toluene	2.06	
10061-02-6	trans-1,3-Dichloropropene	1.32	
	Ethyl Methacrylate	1.76	
79-00-5	1,1,2-Trichloroethane	1.80	
127-18-4	Tetrachloroethene	1.86	
142-28-9	1,3-Dichloropropane	1.95	
591-78-6	2-Hexanone	0.000	
124-48-1	Dibromochloromethane	1.67	
106-93-4	1,2-Dibromoethane	1.36	
108-90-7	Chlorobenzene	2.20	
630-20-6	1,1,1,2-Tetrachloroethane	1.72	
100-41-4	Ethylbenzene	0.000	
7816-60-0	m&p-Xylene	0.000	
95-47-6	o-Xylene	2.06	
100-42-5	Styrene	0.000	
75-25-2	Bromoform	5.22	
98-82-8	Isopropylbenzene	2.13	
	trans-1,4-Dichloro-2-butene	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	2.58	
108-86-1	Bromobenzene	2.32	
96-18-4	1,2,3-Trichloropropane	2.31	
103-65-1	n-Propylbenzene	2.11	
95-49-8	2-Chlorotoluene	2.25	
106-43-4	4-Chlorotoluene	2.07	
108-67-8	1,3,5-Trimethylbenzene	2.06	
98-06-6	tert-Butylbenzene	1.99	
95-63-6	1,2,4-Trimethylbenzene	2.09	
135-98-8	sec-Butylbenzene	2.13	
541-73-1	1,3-Dichlorobenzene	2.48	
99-87-6	p-Isopropyltoluene	2.15	
106-46-7	1,4-Dichlorobenzene	2.51	
104-51-8	n-Butylbenzene	2.05	
95-50-1	1,2-Dichlorobenzene	2.69	
120-82-1	1,2,4-Trichlorobenzene	2.40	
87-61-6	1,2,3-Trichlorobenzene	2.46	
87-68-3	Hexachlorobutadiene	2.20	
91-20-3	Naphthalene	2.51	
	2,methyl-naphthalene	2.44	
1868-53-7	Dibromofluoromethane (S)	50.4	
2037-26-5	Toluene-d8	52.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

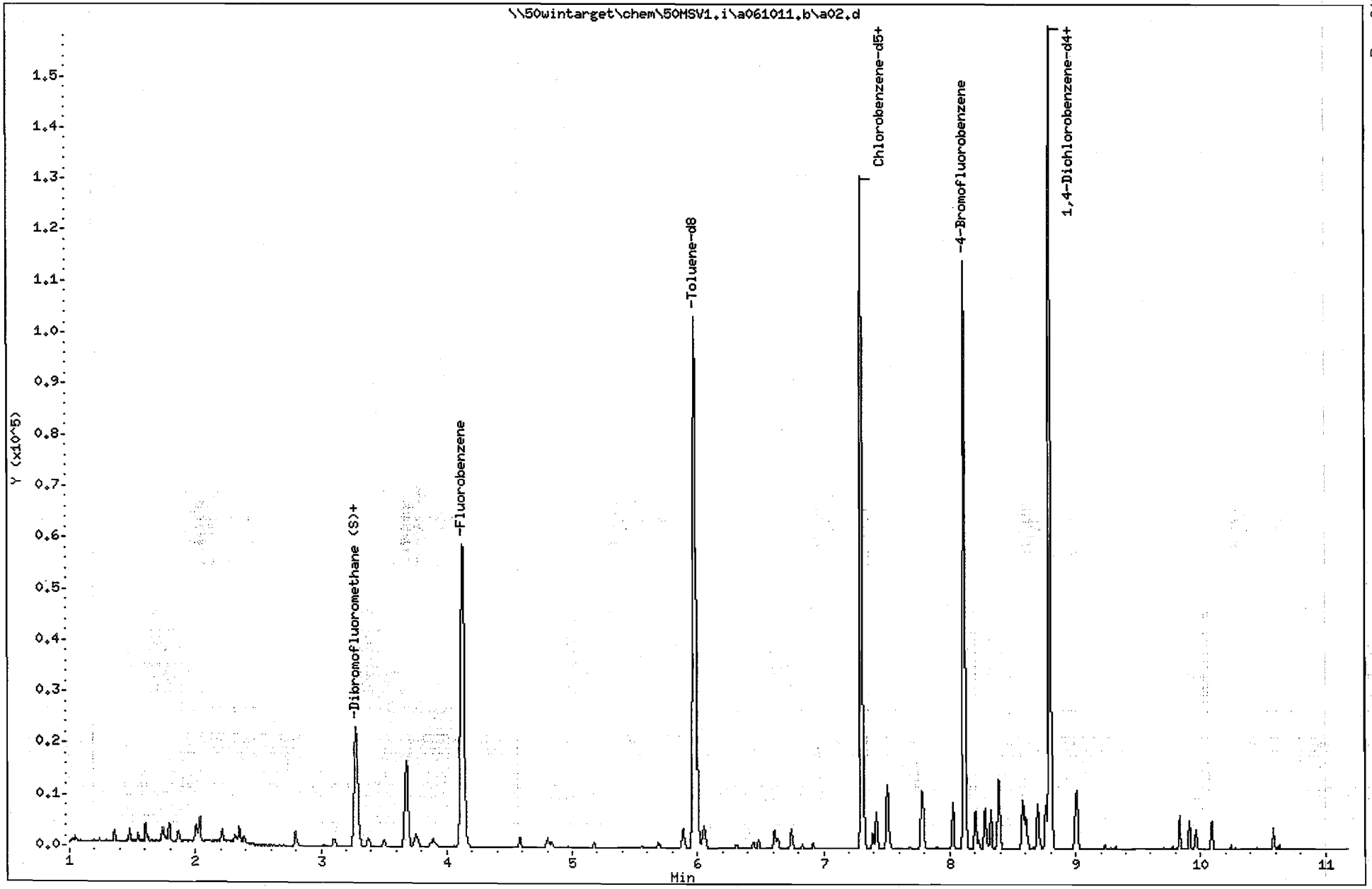
Client SDG: a061011.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
460-00-4	4-Bromofluorobenzene	50.5	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a02.d
Date : 10-JUN-2011 14:10
Client ID: 2ppb
Sample Info: 2ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a03.d
Lab Smp Id: 5ppb Client Smp ID: 5ppb
Inj Date : 10-JUN-2011 14:46
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 20:15 Cal File: a08.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.919	0.921	(0.223)	2807	5.00000	4.31(T)
2 Chloromethane	50	1.024	1.026	(0.249)	1982	5.00000	9.46
3 Vinyl Chloride	62	1.050	1.047	(0.255)	2003	5.00000	4.43
4 Bromomethane	94	1.197	1.193	(0.291)	592	5.00000	5.72(Q)
5 Chloroethane	64	1.239	1.240	(0.301)	903	5.00000	4.11(M)
6 Trichlorofluoromethane	101	1.359	1.355	(0.330)	2952	5.00000	4.92
28 1,2-dichlorotrifluoroethane	67	1.474	1.476	(0.358)	2005	5.00000	4.42
7 Diethyl ether	74	1.484	1.481	(0.360)	547	5.00000	4.21
8 Acrolein	56	1.547	1.544	(0.376)	1613	100.000	88.6
9 1,1-Dichloroethene	96	1.610	1.606	(0.391)	1381	5.00000	4.16(Q)
10 1,1,2trichlorotrifluoroethane	101	1.599	1.601	(0.388)	1568	5.00000	4.23
11 Acetone	43	1.620	1.622	(0.393)	1468	25.0000	15.8(M)
12 Iodomethane	142	1.699	1.695	(0.412)	445	10.0000	5.26(QM)
142 Acetonitrile	41	1.793	1.795	(0.435)	3987	100.000	(M)
13 Carbon Disulfide	76	1.741	1.742	(0.423)	9915	10.0000	3.09
138 Methyl Acetate	43	1.793	1.800	(0.435)	624	5.00000	2.66(M)
14 allyl chloride	41	1.793	1.795	(0.435)	3986	10.0000	5.64(M)
15 Methylene Chloride	84	1.866	1.863	(0.453)	1581	5.00000	4.46
16 Acrylonitrile	53	2.002	2.004	(0.486)	5008	100.000	44.8
18 1,2-Dichloroethene (trans)	96	2.033	2.030	(0.494)	1563	5.00000	4.59
19 Methyl-tert-butyl ether	73	2.033	2.035	(0.494)	6689	10.0000	4.15
20 n-Hexane	57	2.217	2.213	(0.538)	2058	5.00000	4.31(M)
146 Chloroprene	53	2.384	2.391	(0.579)	2216	5.00000	4.09(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.316	2.318	(0.562)	2731	5.00000	4.28(M)
	23 Vinyl Acetate	43	2.347	2.349	(0.570)	7200	20.0000	24.4
	25 1,2-Dichloroethene (cis)	96	2.797	2.794	(0.679)	1966	5.00000	4.27
	24 2,2-Dichloropropane	77	2.792	2.794	(0.678)	2428	5.00000	4.02(M)
	26 2-Butanone	43	2.808	2.809	(0.681)	2180	25.0000	22.9(M)
	29 Bromochloromethane	49	3.022	3.024	(0.733)	908	5.00000	(QM)
	30 Tetrahydrofuran	42	3.090	3.086	(0.750)	476	5.00000	5.39(M)
	31 Chloroform	83	3.111	3.107	(0.755)	3745	5.00000	4.64
$	32 Dibromofluoromethane (S)	113	3.278	3.280	(0.796)	15475	50.0000	49.5
	33 1,1,1-Trichloroethane	97	3.310	3.306	(0.803)	2552	5.00000	3.94(Q)
	139 Cyclohexane	56	3.372	3.374	(0.819)	2706	5.00000	1.32
	37 Isobutyl alcohol	43	3.069	3.379	(0.745)	0	5.00000	(TQM)
	36 1,1-Dichloropropene	75	3.503	3.505	(0.850)	2662	5.00000	1.27
	35 Carbon Tetrachloride	117	3.498	3.505	(0.849)	1531	5.00000	3.45(M)
	147 2,2,4-Trimethylpentane	57	3.885	3.892	(0.943)	7095	5.00000	4.27
	38 Benzene	78	3.754	3.756	(0.911)	7992	5.00000	4.55
	39 1,2-Dichloroethane	62	3.775	3.777	(0.916)	1864	5.00000	4.41(M)
*	40 Fluorobenzene	96	4.120	4.122	(1.000)	68219	50.0000	
	41 Trichloroethene	95	4.581	4.582	(1.112)	2190	5.00000	4.24
	140 Methylcyclohexane	55	4.805	4.802	(1.166)	2935	5.00000	4.50(Q)
	42 1,2-Dichloropropane	63	4.832	4.839	(1.173)	1768	5.00000	4.18(QM)
	43 Dibromomethane	93	4.973	4.969	(1.207)	878	5.00000	4.08(QM)
	44 Methyl methacrylate	69	5.041	5.037	(1.223)	638	5.00000	2.52(QM)
	45 Bromodichloromethane	83	5.172	5.173	(1.255)	2157	5.00000	4.20(M)
	46 2-Chloroethyl vinyl ether	63	5.553	5.555	(0.761)	1032	10.0000	10.6(QM)
	47 cis-1,3-Dichloropropene	75	5.689	5.691	(0.779)	2618	5.00000	4.10
	48 4-Methyl-2-Pentanone	43	5.883	5.885	(0.806)	6932	25.0000	14.2
$	49 Toluene-d8	98	5.977	5.979	(0.819)	67973	50.0000	51.5
	50 Toluene	91	6.050	6.052	(0.829)	9644	5.00000	4.73
	51 trans-1,3-Dichloropropene	75	6.312	6.308	(0.865)	2051	5.00000	4.10
	52 Ethyl Methacrylate	69	6.448	6.444	(0.883)	2025	5.00000	4.64(M)
	53 1,1,2-Trichloroethane	83	6.484	6.486	(0.888)	1274	5.00000	4.48(Q)
	54 Tetrachloroethene	166	6.610	6.612	(0.905)	2872	5.00000	4.59
	55 1,3-Dichloropropane	76	6.636	6.638	(0.909)	2648	5.00000	4.99
	56 2-Hexanone	43	6.746	6.742	(0.924)	4910	25.0000	12.0
	57 Dibromochloromethane	129	6.835	6.836	(0.936)	1164	5.00000	3.66(Q)
	58 1,2-Dibromoethane	107	6.918	6.915	(0.948)	1454	5.00000	4.57
*	59 Chlorobenzene-d5	117	7.300	7.302	(1.000)	56632	50.0000	
	60 Chlorobenzene	112	7.321	7.323	(1.003)	6306	5.00000	4.85
	61 1,1,1,2-Tetrachloroethane	131	7.389	7.391	(1.012)	1602	5.00000	4.32
	62 Ethylbenzene	106	7.415	7.417	(1.016)	3431	5.00000	1.35(Q)
	63 m&p-Xylene	106	7.504	7.501	(1.028)	9130	10.0000	1.38
	65 o-Xylene	106	7.776	7.773	(1.065)	4519	5.00000	4.90
	66 Styrene	104	7.787	7.783	(1.067)	7509	5.00000	1.11
	67 Bromoform	173	7.902	7.898	(0.898)	795	5.00000	7.21(QM)
	68 Isopropylbenzene	105	8.022	8.024	(1.099)	12627	5.00000	5.01
	69 trans-1,4-Dichloro-2-butene	53	8.242	8.238	(1.129)	373	5.00000	3.11(QM)
$	70 4-Bromofluorobenzene	95	8.116	8.113	(1.112)	28994	50.0000	53.3
	72 1,1,2,2-Tetrachloroethane	83	8.210	8.212	(0.933)	2466	5.00000	5.03(M)
	71 Bromobenzene	77	8.200	8.202	(1.123)	5601	5.00000	5.12
	73 1,2,3-Trichloropropane	75	8.231	8.228	(0.936)	2115	5.00000	4.24(Q)
	74 n-Propylbenzene	91	8.278	8.275	(0.941)	14569	5.00000	4.57
	75 2-Chlorotoluene	91	8.325	8.322	(0.946)	9305	5.00000	4.68
	76 4-Chlorotoluene	126	8.325	8.327	(0.946)	2729	5.00000	4.51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
77 1,3,5-Trimethylbenzene	105	8.383	8.385	(0.953)	9842	5.00000	4.64
78 tert-Butylbenzene	119	8.571	8.573	(0.974)	10759	5.00000	4.59
79 1,2,4-Trimethylbenzene	105	8.603	8.599	(0.978)	10358	5.00000	4.77
80 sec-Butylbenzene	105	8.697	8.698	(0.989)	13596	5.00000	4.70
81 1,3-Dichlorobenzene	146	8.759	8.756	(0.996)	6346	5.00000	4.85
83 p-Isopropyltoluene	119	8.775	8.777	(0.998)	11086	5.00000	4.71
* 82 1,4-Dichlorobenzene-d4	152	8.796	8.793	(1.000)	31044	50.0000	
84 1,4-Dichlorobenzene	146	8.807	8.808	(1.001)	6143	5.00000	4.91
86 n-Butylbenzene	91	8.995	8.997	(1.023)	11016	5.00000	4.48
85 1,2-Dichlorobenzene	146	9.010	9.007	(1.024)	5751	5.00000	5.13
88 1,2,4-Trichlorobenzene	180	9.832	9.828	(1.118)	4487	5.00000	4.58
91 1,2,3-Trichlorobenzene	180	10.088	10.084	(1.147)	3824	5.00000	4.90
87 1,2-Dibromo-3-chloropropane	155	9.910	9.907	(1.127)	243	5.00000	2.58 (QM)
89 Hexachlorobutadiene	225	9.910	9.907	(1.127)	3031	5.00000	4.38
90 Naphthalene	128	9.962	9.959	(1.133)	6640	5.00000	4.75
92 2,methyl-naphthalene	142	10.585	10.581	(1.203)	4048	5.00000	4.66

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a03.d
Lab Smp Id: 5ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 5ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	68219	4.01
59 Chlorobenzene-d5	56159	28080	112318	56632	0.84
82 1,4-Dichlorobenze	28863	14432	57726	31044	7.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.04
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.05
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.04

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	4.31	
74-87-3	Chloromethane	9.46	
75-01-4	Vinyl Chloride	4.43	
74-83-9	Bromomethane	5.72	
75-00-3	Chloroethane	4.11	
75-69-4	Trichlorofluoromethane	4.92	
354-23-4	1,2-dichlorotrifluoroethane	4.42	
60-29-7	Diethyl ether	4.21	
107-02-8	Acrolein	88.6	
75-35-4	1,1-Dichloroethene	4.16	
76-13-1	1,1,2trichlorotrifluoroethan	4.23	
67-64-1	Acetone	15.8	
	Iodomethane	5.26	
75-05-8	Acetonitrile	0.000	
75-15-0	Carbon Disulfide	3.09	
79-20-9	Methyl Acetate	2.66	
107-05-1	allyl chloride	5.64	
75-09-2	Methylene Chloride	4.46	
107-13-1	Acrylonitrile	44.8	
156-60-5	1,2-Dichloroethene (trans)	4.59	
1634-04-4	Methyl-tert-butyl ether	4.15	
	n-Hexane	4.31	
126-99-8	Chloroprene	4.09	
75-34-3	1,1-Dichloroethane	4.28	
108-05-4	Vinyl Acetate	24.4	
156-59-2	1,2-Dichloroethene (cis)	4.27	
594-20-7	2,2-Dichloropropane	4.02	
78-93-3	2-Butanone	22.9	
74-97-5	Bromochloromethane	0.000	
	Tetrahydrofuran	5.39	
67-66-3	Chloroform	4.64	
71-55-6	1,1,1-Trichloroethane	3.94	
110-82-7	Cyclohexane	1.32	
78-83-1	Isobutyl alcohol	0.000	
563-58-6	1,1-Dichloropropene	1.27	
56-23-5	Carbon Tetrachloride	3.45	
540-84-1	2,2,4-Trimethylpentane	4.27	
71-43-2	Benzene	4.55	
107-06-2	1,2-Dichloroethane	4.41	
79-01-6	Trichloroethene	4.24	
108-87-2	Methylcyclohexane	4.50	
78-87-5	1,2-Dichloropropane	4.18	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
74-95-3	Dibromomethane	4.08	
80-62-6	Methyl methacrylate	2.52	
75-27-4	Bromodichloromethane	4.20	
110-75-8	2-Chloroethyl vinyl ether	10.6	
10061-01-5	cis-1,3-Dichloropropene	4.10	
108-10-1	4-Methyl-2-Pentanone	14.2	
108-88-3	Toluene	4.73	
10061-02-6	trans-1,3-Dichloropropene	4.10	
	Ethyl Methacrylate	4.64	
79-00-5	1,1,2-Trichloroethane	4.48	
127-18-4	Tetrachloroethene	4.59	
142-28-9	1,3-Dichloropropane	4.99	
591-78-6	2-Hexanone	12.0	
124-48-1	Dibromochloromethane	3.66	
106-93-4	1,2-Dibromoethane	4.57	
108-90-7	Chlorobenzene	4.85	
630-20-6	1,1,1,2-Tetrachloroethane	4.32	
100-41-4	Ethylbenzene	1.35	
7816-60-0	m&p-Xylene	1.38	
95-47-6	o-Xylene	4.90	
100-42-5	Styrene	1.11	
75-25-2	Bromoform	7.21	
98-82-8	Isopropylbenzene	5.01	
	trans-1,4-Dichloro-2-butene	3.11	
79-34-5	1,1,2,2-Tetrachloroethane	5.03	
108-86-1	Bromobenzene	5.12	
96-18-4	1,2,3-Trichloropropane	4.24	
103-65-1	n-Propylbenzene	4.57	
95-49-8	2-Chlorotoluene	4.68	
106-43-4	4-Chlorotoluene	4.51	
108-67-8	1,3,5-Trimethylbenzene	4.64	
98-06-6	tert-Butylbenzene	4.59	
95-63-6	1,2,4-Trimethylbenzene	4.77	
135-98-8	sec-Butylbenzene	4.70	
541-73-1	1,3-Dichlorobenzene	4.85	
99-87-6	p-Isopropyltoluene	4.71	
106-46-7	1,4-Dichlorobenzene	4.91	
104-51-8	n-Butylbenzene	4.48	
95-50-1	1,2-Dichlorobenzene	5.13	
120-82-1	1,2,4-Trichlorobenzene	4.58	
87-61-6	1,2,3-Trichlorobenzene	4.90	
96-12-8	1,2-Dibromo-3-chloropropane	2.58	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

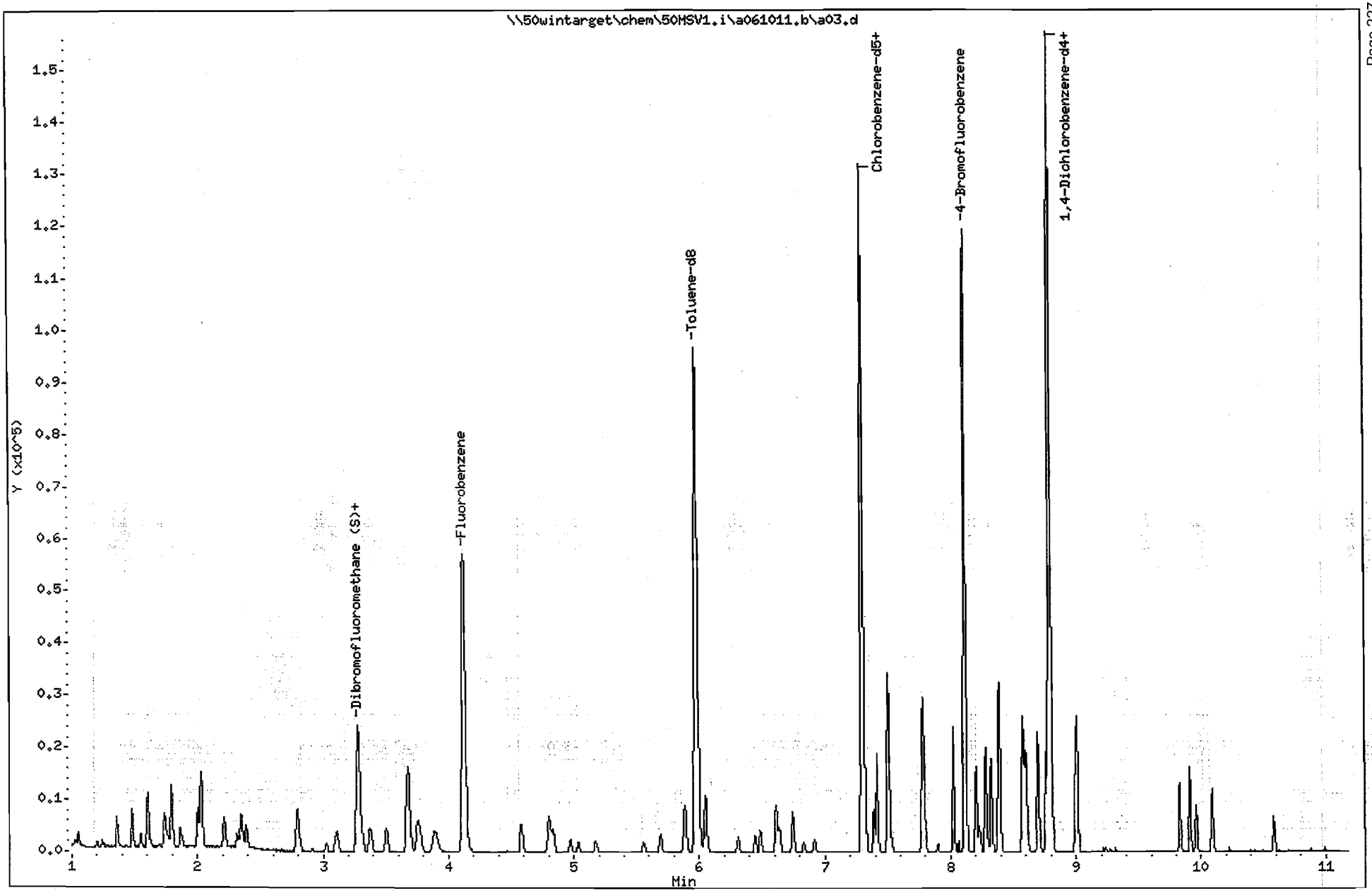
Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
87-68-3	Hexachlorobutadiene	4.38	
91-20-3	Naphthalene	4.75	
	2,methyl-naphthalene	4.66	
1868-53-7	Dibromofluoromethane (S)	49.5	
2037-26-5	Toluene-d8	51.5	
460-00-4	4-Bromofluorobenzene	53.3	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a03.d
Date : 10-JUN-2011 14:46
Client ID: 5ppb
Sample Info: 5ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a04.d
Lab Smp Id: 10ppb
Client Smp ID: 10ppb
Inj Date : 10-JUN-2011 15:19
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 10ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:15
Cal File: a08.d
Als bottle: 9
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.918	0.921	(0.223)	6951	10.0000	10.8
2 Chloromethane	50	1.028	1.026	(0.249)	5630	10.0000	14.2
3 Vinyl Chloride	62	1.049	1.047	(0.254)	4931	10.0000	11.1
4 Bromomethane	94	1.195	1.193	(0.290)	1816	10.0000	10.1
5 Chloroethane	64	1.242	1.240	(0.301)	2455	10.0000	11.3
6 Trichlorofluoromethane	101	1.357	1.355	(0.329)	6550	10.0000	11.1
28 1,2-dichlorotrifluoroethane	67	1.478	1.476	(0.358)	5274	10.0000	11.8
7 Diethyl ether	74	1.483	1.481	(0.360)	1420	10.0000	11.1
8 Acrolein	56	1.546	1.544	(0.375)	3751	200.000	209
9 1,1-Dichloroethene	96	1.608	1.606	(0.390)	3730	10.0000	11.4
10 1,1,2trichlorotrifluoroethane	101	1.603	1.601	(0.389)	3914	10.0000	10.7
11 Acetone	43	1.624	1.622	(0.394)	2711	50.0000	52.7
12 Iodomethane	142	1.697	1.695	(0.412)	2821	20.0000	16.7
142 Acetonitrile	41	1.791	1.795	(0.434)	9414	200.000	165
13 Carbon Disulfide	76	1.739	1.742	(0.422)	24291	20.0000	19.1(M)
138 Methyl Acetate	43	1.797	1.800	(0.436)	1446	10.0000	11.1(M)
14 allyl chloride	41	1.791	1.795	(0.434)	9414	20.0000	21.1(QM)
15 Methylene Chloride	84	1.865	1.863	(0.452)	3771	10.0000	10.8
16 Acrylonitrile	53	2.006	2.004	(0.486)	11859	200.000	205
17 tert-Butyl Alcohol	59	1.922	1.920	(0.466)	362	20.0000	21.6(TM)
18 1,2-Dichloroethene (trans)	96	2.032	2.030	(0.493)	3752	10.0000	11.2
19 Methyl-tert-butyl ether	73	2.032	2.035	(0.493)	14816	20.0000	19.6
20 n-Hexane	57	2.215	2.213	(0.537)	5090	10.0000	10.8(TM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	146 Chloroprene	53	2.388	2.391	(0.579)	5499	10.0000	10.3 (M)
	21 1,1-Dichloroethane	63	2.320	2.318	(0.563)	6561	10.0000	10.4
	23 Vinyl Acetate	43	2.351	2.349	(0.570)	16979	40.0000	45.7
	25 1,2-Dichloroethene (cis)	96	2.796	2.794	(0.678)	4778	10.0000	10.5
	24 2,2-Dichloropropane	77	2.796	2.794	(0.678)	6263	10.0000	10.5
	26 2-Butanone	43	2.811	2.809	(0.682)	5623	50.0000	60.0 (M)
	29 Bromochloromethane	49	3.015	3.024	(0.731)	2728	10.0000	9.67
	30 Tetrahydrofuran	42	3.089	3.086	(0.749)	966	10.0000	11.1 (M)
	31 Chloroform	83	3.104	3.107	(0.753)	8604	10.0000	10.8
$	32 Dibromofluoromethane (S)	113	3.277	3.280	(0.795)	15761	50.0000	51.2
	33 1,1,1-Trichloroethane	97	3.308	3.306	(0.802)	6494	10.0000	10.2
	139 Cyclohexane	56	3.371	3.374	(0.817)	7527	10.0000	8.90
	37 Isobutyl alcohol	43	3.376	3.379	(0.819)	489	10.0000	5.36 (TQ)
	36 1,1-Dichloropropene	75	3.502	3.505	(0.849)	7023	10.0000	9.01
	35 Carbon Tetrachloride	117	3.502	3.505	(0.849)	4674	10.0000	10.0
	144 isopropyl acetate	61	0.751	1.047	(0.182)	0	10.0000	(TQM)
	147 2,2,4-Trimethylpentane	57	3.889	3.892	(0.943)	18513	10.0000	11.3
	38 Benzene	78	3.758	3.756	(0.911)	19632	10.0000	11.3
	39 1,2-Dichloroethane	62	3.779	3.777	(0.916)	4581	10.0000	11.0 (M)
*	40 Fluorobenzene	96	4.124	4.122	(1.000)	67257	50.0000	
	41 Trichloroethene	95	4.584	4.582	(1.112)	5497	10.0000	10.8
	140 Methylcyclohexane	55	4.804	4.802	(1.165)	7198	10.0000	11.2
	42 1,2-Dichloropropane	63	4.835	4.839	(1.172)	4632	10.0000	11.1 (M)
	43 Dibromomethane	93	4.971	4.969	(1.205)	2240	10.0000	10.6
	44 Methyl methacrylate	69	5.034	5.037	(1.221)	1914	10.0000	9.49
	45 Bromodichloromethane	83	5.175	5.173	(1.255)	5236	10.0000	10.3 (M)
	46 2-Chloroethyl vinyl ether	63	5.557	5.555	(0.761)	2355	20.0000	22.6
	47 cis-1,3-Dichloropropene	75	5.688	5.691	(0.779)	6779	10.0000	9.89
	48 4-Methyl-2-Pentanone	43	5.881	5.885	(0.806)	16611	50.0000	54.6
$	49 Toluene-d8	98	5.976	5.979	(0.819)	69500	50.0000	49.1
	50 Toluene	91	6.049	6.052	(0.829)	23827	10.0000	10.9
	51 trans-1,3-Dichloropropene	75	6.310	6.308	(0.865)	5315	10.0000	9.89
	52 Ethyl Methacrylate	69	6.446	6.444	(0.883)	5389	10.0000	11.5 (M)
	53 1,1,2-Trichloroethane	83	6.483	6.486	(0.888)	3508	10.0000	11.5
	54 Tetrachloroethene	166	6.614	6.612	(0.906)	7489	10.0000	11.2
	55 1,3-Dichloropropane	76	6.635	6.638	(0.909)	6274	10.0000	11.0
	56 2-Hexanone	43	6.744	6.742	(0.924)	13071	50.0000	59.8
	57 Dibromochloromethane	129	6.833	6.836	(0.936)	3380	10.0000	9.90
	58 1,2-Dibromoethane	107	6.917	6.915	(0.948)	3592	10.0000	10.5
*	59 Chlorobenzene-d5	117	7.299	7.302	(1.000)	60819	50.0000	
	60 Chlorobenzene	112	7.320	7.323	(1.003)	15723	10.0000	11.2
	61 1,1,1,2-Tetrachloroethane	131	7.388	7.391	(1.012)	4136	10.0000	10.4
	62 Ethylbenzene	106	7.414	7.417	(1.016)	9047	10.0000	9.56
	63 m&p-Xylene	106	7.503	7.501	(1.028)	21501	20.0000	17.3
	65 o-Xylene	106	7.775	7.773	(1.065)	11362	10.0000	11.5
	66 Styrene	104	7.785	7.783	(1.067)	17872	10.0000	9.32
	67 Bromoform	173	7.900	7.898	(0.898)	2063	10.0000	11.6 (M)
	68 Isopropylbenzene	105	8.021	8.024	(1.099)	30289	10.0000	11.2
	69 trans-1,4-Dichloro-2-butene	53	8.240	8.238	(1.129)	1037	10.0000	10.1 (Q)
$	70 4-Bromofluorobenzene	95	8.115	8.113	(1.112)	29528	50.0000	50.5
	72 1,1,2,2-Tetrachloroethane	83	8.209	8.212	(0.933)	5912	10.0000	11.8
	71 Bromobenzene	77	8.204	8.202	(1.124)	12920	10.0000	11.0
	73 1,2,3-Trichloropropane	75	8.230	8.228	(0.936)	5795	10.0000	11.4 (Q)
	74 n-Propylbenzene	91	8.277	8.275	(0.941)	37055	10.0000	11.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
75 2-Chlorotoluene	91	8.324	8.322	(0.946)	22561	10.0000	11.1
76 4-Chlorotoluene	126	8.324	8.327	(0.946)	6646	10.0000	10.7
77 1,3,5-Trimethylbenzene	105	8.381	8.385	(0.953)	24002	10.0000	11.1
78 tert-Butylbenzene	119	8.575	8.573	(0.975)	25641	10.0000	10.7
79 1,2,4-Trimethylbenzene	105	8.601	8.599	(0.978)	24071	10.0000	10.8
80 sec-Butylbenzene	105	8.695	8.698	(0.989)	32951	10.0000	11.1
81 1,3-Dichlorobenzene	146	8.758	8.756	(0.996)	14145	10.0000	10.6
83 p-Isopropyltoluene	119	8.779	8.777	(0.998)	26465	10.0000	11.0
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.793	(1.000)	31720	50.0000	
84 1,4-Dichlorobenzene	146	8.810	8.808	(1.002)	13890	10.0000	10.9
86 n-Butylbenzene	91	8.999	8.997	(1.023)	26908	10.0000	10.7
85 1,2-Dichlorobenzene	146	9.009	9.007	(1.024)	12959	10.0000	11.3
88 1,2,4-Trichlorobenzene	180	9.830	9.828	(1.118)	10416	10.0000	10.4
91 1,2,3-Trichlorobenzene	180	10.086	10.084	(1.147)	8779	10.0000	11.0
87 1,2-Dibromo-3-chloropropane	155	9.909	9.907	(1.127)	805	10.0000	9.27(Q)
89 Hexachlorobutadiene	225	9.909	9.907	(1.127)	7410	10.0000	10.5
90 Naphthalene	128	9.961	9.959	(1.133)	16362	10.0000	11.4
92 2,methyl-naphthalene	142	10.583	10.581	(1.203)	9986	10.0000	11.2

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a04.d
Lab Smp Id: 10ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 10ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	67257	2.54
59 Chlorobenzene-d5	56159	28080	112318	60819	8.30
82 1,4-Dichlorobenze	28863	14432	57726	31720	9.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.05
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.03

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	10.8	
74-87-3	Chloromethane	14.2	
75-01-4	Vinyl Chloride	11.1	
74-83-9	Bromomethane	10.1	
75-00-3	Chloroethane	11.3	
75-69-4	Trichlorofluoromethane	11.1	
354-23-4	1,2-dichlorotrifluoroethane	11.8	
60-29-7	Diethyl ether	11.1	
107-02-8	Acrolein	209	
75-35-4	1,1-Dichloroethene	11.4	
76-13-1	1,1,2trichlorotrifluoroethan	10.7	
67-64-1	Acetone	52.7	
	Iodomethane	16.7	
75-05-8	Acetonitrile	165	
75-15-0	Carbon Disulfide	19.1	
79-20-9	Methyl Acetate	11.1	
107-05-1	allyl chloride	21.1	
75-09-2	Methylene Chloride	10.8	
107-13-1	Acrylonitrile	205	
75-65-0	tert-Butyl Alcohol	21.6	
156-60-5	1,2-Dichloroethene (trans)	11.2	
1634-04-4	Methyl-tert-butyl ether	19.6	
	n-Hexane	10.8	
126-99-8	Chloroprene	10.3	
75-34-3	1,1-Dichloroethane	10.4	
108-05-4	Vinyl Acetate	45.7	
156-59-2	1,2-Dichloroethene (cis)	10.5	
594-20-7	2,2-Dichloropropane	10.5	
78-93-3	2-Butanone	60.0	
74-97-5	Bromochloromethane	9.67	
	Tetrahydrofuran	11.1	
67-66-3	Chloroform	10.8	
71-55-6	1,1,1-Trichloroethane	10.2	
110-82-7	Cyclohexane	8.90	
78-83-1	Isobutyl alcohol	5.36	
563-58-6	1,1-Dichloropropene	9.01	
56-23-5	Carbon Tetrachloride	10.0	
108-21-4	isopropyl acetate	0.000	
540-84-1	2,2,4-Trimethylpentane	11.3	
71-43-2	Benzene	11.3	
107-06-2	1,2-Dichloroethane	11.0	
79-01-6	Trichloroethene	10.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	11.2	
78-87-5	1,2-Dichloropropane	11.1	
74-95-3	Dibromomethane	10.6	
80-62-6	Methyl methacrylate	9.49	
75-27-4	Bromodichloromethane	10.3	
110-75-8	2-Chloroethyl vinyl ether	22.6	
10061-01-5	cis-1,3-Dichloropropene	9.89	
108-10-1	4-Methyl-2-Pentanone	54.6	
108-88-3	Toluene	10.9	
10061-02-6	trans-1,3-Dichloropropene	9.89	
	Ethyl Methacrylate	11.5	
79-00-5	1,1,2-Trichloroethane	11.5	
127-18-4	Tetrachloroethene	11.2	
142-28-9	1,3-Dichloropropane	11.0	
591-78-6	2-Hexanone	59.8	
124-48-1	Dibromochloromethane	9.90	
106-93-4	1,2-Dibromoethane	10.5	
108-90-7	Chlorobenzene	11.2	
630-20-6	1,1,1,2-Tetrachloroethane	10.4	
100-41-4	Ethylbenzene	9.56	
7816-60-0	m&p-Xylene	17.3	
95-47-6	o-Xylene	11.5	
100-42-5	Styrene	9.32	
75-25-2	Bromoform	11.6	
98-82-8	Isopropylbenzene	11.2	
	trans-1,4-Dichloro-2-butene	10.1	
79-34-5	1,1,2,2-Tetrachloroethane	11.8	
108-86-1	Bromobenzene	11.0	
96-18-4	1,2,3-Trichloropropane	11.4	
103-65-1	n-Propylbenzene	11.4	
95-49-8	2-Chlorotoluene	11.1	
106-43-4	4-Chlorotoluene	10.7	
108-67-8	1,3,5-Trimethylbenzene	11.1	
98-06-6	tert-Butylbenzene	10.7	
95-63-6	1,2,4-Trimethylbenzene	10.8	
135-98-8	sec-Butylbenzene	11.1	
541-73-1	1,3-Dichlorobenzene	10.6	
99-87-6	p-Isopropyltoluene	11.0	
106-46-7	1,4-Dichlorobenzene	10.9	
104-51-8	n-Butylbenzene	10.7	
95-50-1	1,2-Dichlorobenzene	11.3	
120-82-1	1,2,4-Trichlorobenzene	10.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

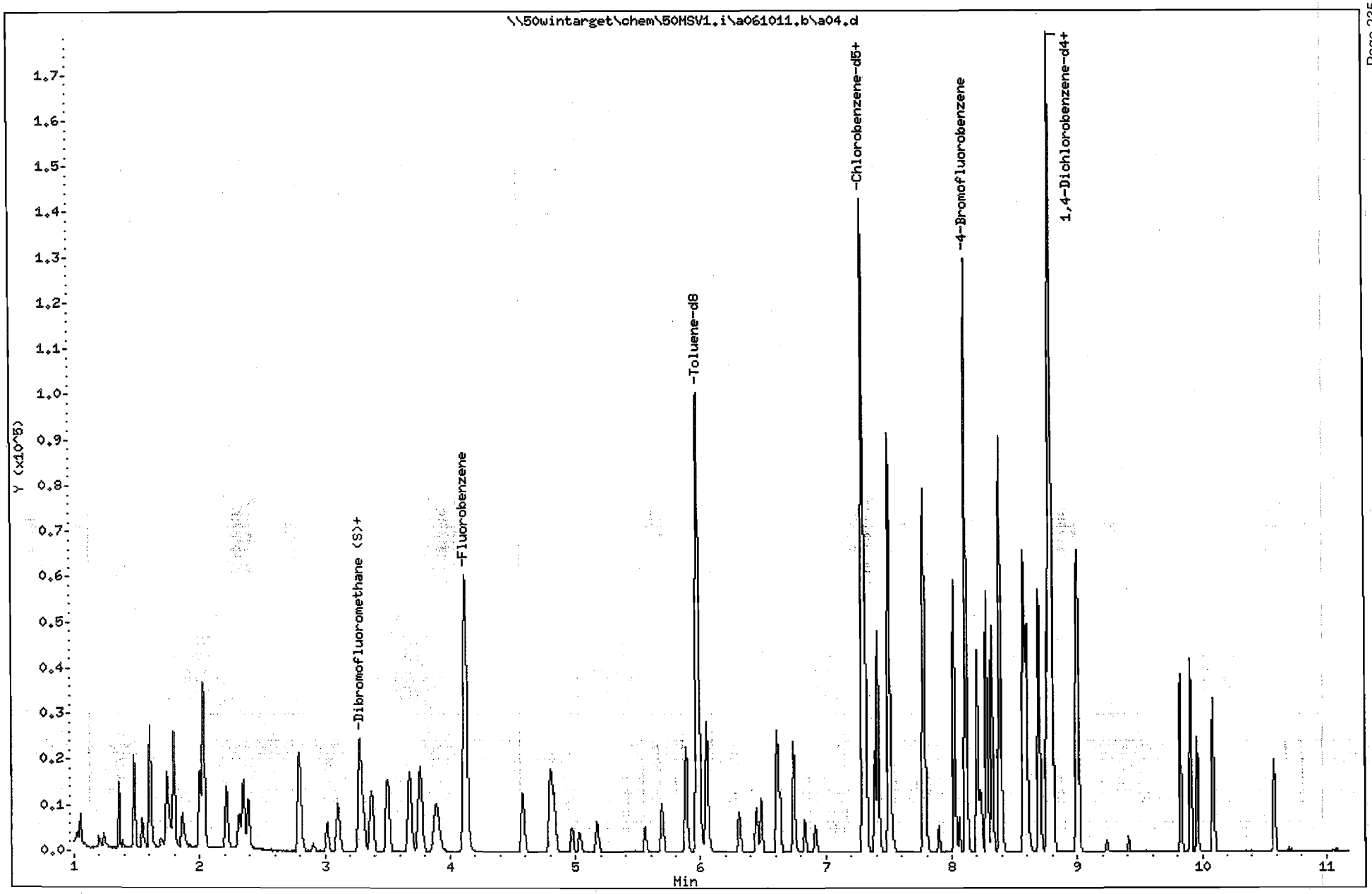
Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
87-61-6	1,2,3-Trichlorobenzene	11.0	
96-12-8	1,2-Dibromo-3-chloropropane	9.27	
87-68-3	Hexachlorobutadiene	10.5	
91-20-3	Naphthalene	11.4	
	2,methyl-naphthalene	11.2	
1868-53-7	Dibromofluoromethane (S)	51.2	
2037-26-5	Toluene-d8	49.1	
460-00-4	4-Bromofluorobenzene	50.5	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a04.d
Date : 10-JUN-2011 15:19
Client ID: 10ppb
Sample Info: 10ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a05.d
Lab Smp Id: 20ppb
Client Smp ID: 20ppb
Inj Date : 10-JUN-2011 15:55
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 20ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:15
Cal File: a08.d
Als bottle: 11
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.919	0.921	(0.223)	11016	20.0000	17.0
2 Chloromethane	50	1.029	1.026	(0.249)	7979	20.0000	17.2
3 Vinyl Chloride	62	1.050	1.047	(0.255)	8243	20.0000	18.4
4 Bromomethane	94	1.196	1.193	(0.290)	3511	20.0000	16.2
5 Chloroethane	64	1.238	1.240	(0.300)	3463	20.0000	15.9
6 Trichlorofluoromethane	101	1.358	1.355	(0.329)	10793	20.0000	18.1
28 1,2-dichlorotrifluoroethane	67	1.479	1.476	(0.359)	11036	20.0000	24.5
7 Diethyl ether	74	1.484	1.481	(0.360)	2905	20.0000	22.5
8 Acrolein	56	1.547	1.544	(0.375)	6301	400.000	349
9 1,1-Dichloroethene	96	1.609	1.606	(0.390)	7918	20.0000	24.1
10 1,1,2trichlorotrifluoroethane	101	1.599	1.601	(0.388)	9220	20.0000	25.1
11 Acetone	43	1.620	1.622	(0.393)	5271	100.000	126
12 Iodomethane	142	1.693	1.695	(0.410)	8345	40.0000	43.1
142 Acetonitrile	41	1.792	1.795	(0.435)	20409	400.000	532
13 Carbon Disulfide	76	1.740	1.742	(0.422)	53707	40.0000	51.2(M)
138 Methyl Acetate	43	1.798	1.800	(0.436)	2608	20.0000	22.7
14 allyl chloride	41	1.792	1.795	(0.435)	20409	40.0000	51.6(M)
15 Methylene Chloride	84	1.866	1.863	(0.452)	8046	20.0000	22.9
16 Acrylonitrile	53	2.002	2.004	(0.485)	23873	400.000	479
27 Propionitrile	54	2.389	2.391	(0.579)	334	20.0000	15.2(Q)
17 tert-Butyl Alcohol	59	1.918	1.920	(0.465)	657	40.0000	39.0(M)
18 1,2-Dichloroethene (trans)	96	2.033	2.030	(0.493)	8313	20.0000	24.6
19 Methyl-tert-butyl ether	73	2.033	2.035	(0.493)	30494	40.0000	48.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
20 n-Hexane	57	2.216	2.213	(0.537)	11777	20.0000	24.9(T)
146 Chloroprene	53	2.389	2.391	(0.579)	12575	20.0000	23.4
21 1,1-Dichloroethane	63	2.315	2.318	(0.561)	14629	20.0000	23.1
23 Vinyl Acetate	43	2.347	2.349	(0.569)	36411	80.0000	87.2
25 1,2-Dichloroethene (cis)	96	2.797	2.794	(0.678)	11120	20.0000	24.3
24 2,2-Dichloropropane	77	2.797	2.794	(0.678)	14620	20.0000	24.4
26 2-Butanone	43	2.807	2.809	(0.681)	11349	100.000	120
29 Bromochloromethane	49	3.021	3.024	(0.733)	5801	20.0000	27.4
30 Tetrahydrofuran	42	3.095	3.086	(0.750)	1702	20.0000	19.4(Q)
31 Chloroform	83	3.110	3.107	(0.754)	19321	20.0000	24.1
$ 32 Dibromofluoromethane (S)	113	3.278	3.280	(0.795)	15570	50.0000	50.2
33 1,1,1-Trichloroethane	97	3.309	3.306	(0.802)	15253	20.0000	23.7
139 Cyclohexane	56	3.372	3.374	(0.817)	17399	20.0000	24.1
37 Isobutyl alcohol	43	3.367	3.379	(0.816)	1550	20.0000	21.0(Q)
36 1,1-Dichloropropene	75	3.503	3.505	(0.849)	16082	20.0000	24.8
35 Carbon Tetrachloride	117	3.503	3.505	(0.849)	11055	20.0000	23.2
147 2,2,4-Trimethylpentane	57	3.890	3.892	(0.943)	41621	20.0000	25.3
38 Benzene	78	3.754	3.756	(0.910)	41397	20.0000	23.7
39 1,2-Dichloroethane	62	3.780	3.777	(0.916)	10015	20.0000	23.9
* 40 Fluorobenzene	96	4.125	4.122	(1.000)	67676	50.0000	
41 Trichloroethene	95	4.580	4.582	(1.110)	11926	20.0000	23.3
140 Methylcyclohexane	55	4.805	4.802	(1.165)	16198	20.0000	25.0
42 1,2-Dichloropropane	63	4.836	4.839	(1.172)	10172	20.0000	24.3(M)
43 Dibromomethane	93	4.972	4.969	(1.205)	5217	20.0000	24.4
44 Methyl methacrylate	69	5.035	5.037	(1.221)	4512	20.0000	23.4
45 Bromodichloromethane	83	5.176	5.173	(1.255)	12198	20.0000	24.0
46 2-Chloroethyl vinyl ether	63	5.553	5.555	(0.761)	5325	40.0000	54.5
47 cis-1,3-Dichloropropene	75	5.689	5.691	(0.779)	14795	20.0000	23.0
48 4-Methyl-2-Pentanone	43	5.882	5.885	(0.806)	31186	100.000	128
$ 49 Toluene-d8	98	5.977	5.979	(0.819)	68759	50.0000	51.8
50 Toluene	91	6.050	6.052	(0.829)	49499	20.0000	24.1
51 trans-1,3-Dichloropropene	75	6.306	6.308	(0.864)	12036	20.0000	23.9
52 Ethyl Methacrylate	69	6.442	6.444	(0.883)	10555	20.0000	24.0(M)
53 1,1,2-Trichloroethane	83	6.484	6.486	(0.888)	6941	20.0000	24.2
54 Tetrachloroethene	166	6.615	6.612	(0.906)	15469	20.0000	24.6
55 1,3-Dichloropropane	76	6.635	6.638	(0.909)	13071	20.0000	24.5
56 2-Hexanone	43	6.745	6.742	(0.924)	21807	100.000	122
57 Dibromochloromethane	129	6.834	6.836	(0.936)	7439	20.0000	23.2
58 1,2-Dibromoethane	107	6.918	6.915	(0.948)	7734	20.0000	24.1
* 59 Chlorobenzene-d5	117	7.300	7.302	(1.000)	57009	50.0000	
60 Chlorobenzene	112	7.321	7.323	(1.003)	32181	20.0000	24.6
61 1,1,1,2-Tetrachloroethane	131	7.389	7.391	(1.012)	8910	20.0000	23.8
62 Ethylbenzene	106	7.415	7.417	(1.016)	19396	20.0000	27.4
63 m&p-Xylene	106	7.504	7.501	(1.028)	44995	40.0000	53.2
65 o-Xylene	106	7.776	7.773	(1.065)	22539	20.0000	24.3
66 Styrene	104	7.786	7.783	(1.067)	36001	20.0000	26.5
67 Bromoform	173	7.901	7.898	(0.898)	4506	20.0000	21.2
68 Isopropylbenzene	105	8.021	8.024	(1.099)	61291	20.0000	24.2
69 trans-1,4-Dichloro-2-butene	53	8.241	8.238	(1.129)	2068	20.0000	23.0(Q)
$ 70 4-Bromofluorobenzene	95	8.116	8.113	(1.112)	27211	50.0000	49.7
72 1,1,2,2-Tetrachloroethane	83	8.210	8.212	(0.933)	10437	20.0000	22.4
71 Bromobenzene	77	8.199	8.202	(1.123)	24899	20.0000	22.6
73 1,2,3-Trichloropropane	75	8.231	8.228	(0.936)	10307	20.0000	21.8
74 n-Propylbenzene	91	8.278	8.275	(0.941)	76668	20.0000	25.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
75 2-Chlorotoluene	91	8.325	8.322	(0.946)	43442	20.0000	23.0
76 4-Chlorotoluene	126	8.325	8.327	(0.946)	13383	20.0000	23.3
77 1,3,5-Trimethylbenzene	105	8.382	8.385	(0.953)	48693	20.0000	24.2
78 tert-Butylbenzene	119	8.571	8.573	(0.974)	55047	20.0000	24.7
79 1,2,4-Trimethylbenzene	105	8.602	8.599	(0.978)	50626	20.0000	24.6
80 sec-Butylbenzene	105	8.696	8.698	(0.989)	68196	20.0000	24.8
81 1,3-Dichlorobenzene	146	8.759	8.756	(0.996)	28140	20.0000	22.7
83 p-Isopropyltoluene	119	8.775	8.777	(0.998)	54633	20.0000	24.5
* 82 1,4-Dichlorobenzene-d4	152	8.796	8.793	(1.000)	29458	50.0000	
84 1,4-Dichlorobenzene	146	8.806	8.808	(1.001)	25809	20.0000	21.7
86 n-Butylbenzene	91	8.994	8.997	(1.023)	56305	20.0000	24.1
85 1,2-Dichlorobenzene	146	9.010	9.007	(1.024)	24688	20.0000	23.2
88 1,2,4-Trichlorobenzene	180	9.831	9.828	(1.118)	19559	20.0000	21.1
91 1,2,3-Trichlorobenzene	180	10.087	10.084	(1.147)	16282	20.0000	22.0
87 1,2-Dibromo-3-chloropropane	155	9.910	9.907	(1.127)	1797	20.0000	22.8 (Q)
89 Hexachlorobutadiene	225	9.910	9.907	(1.127)	15016	20.0000	22.9
90 Naphthalene	128	9.962	9.959	(1.133)	28432	20.0000	21.4
92 2,methyl-naphthalene	142	10.584	10.581	(1.203)	18189	20.0000	22.0

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a05.d
Lab Smp Id: 20ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 20ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	67676	3.18
59 Chlorobenzene-d5	56159	28080	112318	57009	1.51
82 1,4-Dichlorobenze	28863	14432	57726	29458	2.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.13	0.08
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.04
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.04

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	17.0	
74-87-3	Chloromethane	17.2	
75-01-4	Vinyl Chloride	18.4	
74-83-9	Bromomethane	16.2	
75-00-3	Chloroethane	15.9	
75-69-4	Trichlorofluoromethane	18.1	
354-23-4	1,2-dichlorotrifluoroethane	24.5	
60-29-7	Diethyl ether	22.5	
107-02-8	Acrolein	349	
75-35-4	1,1-Dichloroethene	24.1	
76-13-1	1,1,2trichlorotrifluoroethan	25.1	
67-64-1	Acetone	126	
	Iodomethane	43.1	
75-05-8	Acetonitrile	532	
75-15-0	Carbon Disulfide	51.2	
79-20-9	Methyl Acetate	22.7	
107-05-1	allyl chloride	51.6	
75-09-2	Methylene Chloride	22.9	
107-13-1	Acrylonitrile	479	
107-12-0	Propionitrile	15.2	
75-65-0	tert-Butyl Alcohol	39.0	
156-60-5	1,2-Dichloroethene (trans)	24.6	
1634-04-4	Methyl-tert-butyl ether	48.7	
	n-Hexane	24.9	
126-99-8	Chloroprene	23.4	
75-34-3	1,1-Dichloroethane	23.1	
108-05-4	Vinyl Acetate	87.2	
156-59-2	1,2-Dichloroethene (cis)	24.3	
594-20-7	2,2-Dichloropropane	24.4	
78-93-3	2-Butanone	120	
74-97-5	Bromochloromethane	27.4	
	Tetrahydrofuran	19.4	
67-66-3	Chloroform	24.1	
71-55-6	1,1,1-Trichloroethane	23.7	
110-82-7	Cyclohexane	24.1	
78-83-1	Isobutyl alcohol	21.0	
563-58-6	1,1-Dichloropropene	24.8	
56-23-5	Carbon Tetrachloride	23.2	
540-84-1	2,2,4-Trimethylpentane	25.3	
71-43-2	Benzene	23.7	
107-06-2	1,2-Dichloroethane	23.9	
79-01-6	Trichloroethene	23.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	25.0	
78-87-5	1,2-Dichloropropane	24.3	
74-95-3	Dibromomethane	24.4	
80-62-6	Methyl methacrylate	23.4	
75-27-4	Bromodichloromethane	24.0	
110-75-8	2-Chloroethyl vinyl ether	54.5	
10061-01-5	cis-1,3-Dichloropropene	23.0	
108-10-1	4-Methyl-2-Pentanone	128	
108-88-3	Toluene	24.1	
10061-02-6	trans-1,3-Dichloropropene	23.9	
	Ethyl Methacrylate	24.0	
79-00-5	1,1,2-Trichloroethane	24.2	
127-18-4	Tetrachloroethene	24.6	
142-28-9	1,3-Dichloropropane	24.5	
591-78-6	2-Hexanone	122	
124-48-1	Dibromochloromethane	23.2	
106-93-4	1,2-Dibromoethane	24.1	
108-90-7	Chlorobenzene	24.6	
630-20-6	1,1,1,2-Tetrachloroethane	23.8	
100-41-4	Ethylbenzene	27.4	
7816-60-0	m&p-Xylene	53.2	
95-47-6	o-Xylene	24.3	
100-42-5	Styrene	26.5	
75-25-2	Bromoform	21.2	
98-82-8	Isopropylbenzene	24.2	
	trans-1,4-Dichloro-2-butene	23.0	
79-34-5	1,1,2,2-Tetrachloroethane	22.4	
108-86-1	Bromobenzene	22.6	
96-18-4	1,2,3-Trichloropropane	21.8	
103-65-1	n-Propylbenzene	25.3	
95-49-8	2-Chlorotoluene	23.0	
106-43-4	4-Chlorotoluene	23.3	
108-67-8	1,3,5-Trimethylbenzene	24.2	
98-06-6	tert-Butylbenzene	24.7	
95-63-6	1,2,4-Trimethylbenzene	24.6	
135-98-8	sec-Butylbenzene	24.8	
541-73-1	1,3-Dichlorobenzene	22.7	
99-87-6	p-Isopropyltoluene	24.5	
106-46-7	1,4-Dichlorobenzene	21.7	
104-51-8	n-Butylbenzene	24.1	
95-50-1	1,2-Dichlorobenzene	23.2	
120-82-1	1,2,4-Trichlorobenzene	21.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

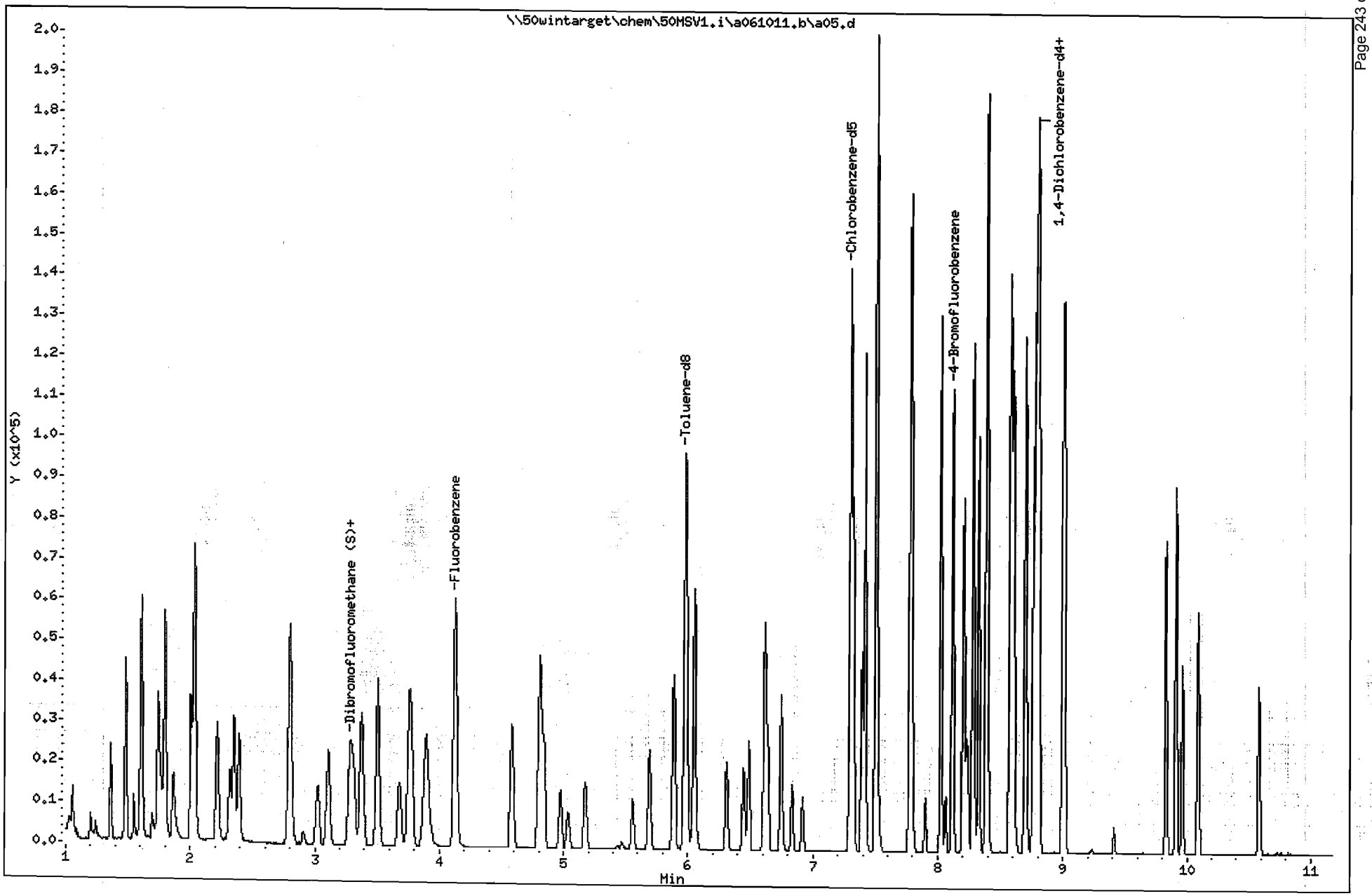
Client SDG: a061011.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
87-61-6	1,2,3-Trichlorobenzene	22.0	
96-12-8	1,2-Dibromo-3-chloropropane	22.8	
87-68-3	Hexachlorobutadiene	22.9	
91-20-3	Naphthalene	21.4	
	2,methyl-naphthalene	22.0	
1868-53-7	Dibromofluoromethane (S)	50.2	
2037-26-5	Toluene-d8	51.8	
460-00-4	4-Bromofluorobenzene	49.7	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a05.d
Date : 10-JUN-2011 15:55
Client ID: 20ppb
Sample Info: 20ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a06.d
Lab Smp Id: 50ppb
Client Smp ID: 50ppb
Inj Date : 10-JUN-2011 16:33
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 50ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:15
Cal File: a08.d
Als bottle: 13
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.921	0.921	(0.224)	34605	50.0000	55.2
2 Chloromethane	50	1.031	1.026	(0.250)	27627	50.0000	43.5
3 Vinyl Chloride	62	1.047	1.047	(0.254)	24142	50.0000	55.5
4 Bromomethane	94	1.193	1.193	(0.290)	12862	50.0000	51.0
5 Chloroethane	64	1.240	1.240	(0.301)	11924	50.0000	56.4
6 Trichlorofluoromethane	101	1.355	1.355	(0.329)	33364	50.0000	57.8
28 1,2-dichlorotrifluoroethane	67	1.475	1.476	(0.358)	22004	50.0000	50.4
7 Diethyl ether	74	1.481	1.481	(0.359)	6428	50.0000	51.5
8 Acrolein	56	1.543	1.544	(0.375)	19330	1000.00	1100
9 1,1-Dichloroethene	96	1.606	1.606	(0.390)	14963	50.0000	46.9
10 1,1,2trichlorotrifluoroethane	101	1.601	1.601	(0.388)	16931	50.0000	47.5
11 Acetone	43	1.622	1.622	(0.394)	9024	250.000	244
12 Iodomethane	142	1.695	1.695	(0.411)	21218	100.000	108
142 Acetonitrile	41	1.794	1.795	(0.435)	38937	1000.00	1200
13 Carbon Disulfide	76	1.742	1.742	(0.423)	97329	100.000	102(M)
138 Methyl Acetate	43	1.794	1.800	(0.435)	4843	50.0000	46.8
14 allyl chloride	41	1.794	1.795	(0.435)	38937	100.000	107(M)
15 Methylene Chloride	84	1.862	1.863	(0.452)	14514	50.0000	42.6
16 Acrylonitrile	53	2.004	2.004	(0.486)	44810	1000.00	993
17 tert-Butyl Alcohol	59	1.920	1.920	(0.466)	1475	100.000	90.4(TM)
18 1,2-Dichloroethene (trans)	96	2.030	2.030	(0.493)	15934	50.0000	48.7
19 Methyl-tert-butyl ether	73	2.030	2.035	(0.493)	57007	100.000	102
20 n-Hexane	57	2.213	2.213	(0.537)	21572	50.0000	47.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
146 Chloroprene	53	2.391	2.391	(0.580)	24956	50.0000	47.9
21 1,1-Dichloroethane	63	2.318	2.318	(0.562)	27950	50.0000	45.6
23 Vinyl Acetate	43	2.349	2.349	(0.570)	66442	200.000	156
25 1,2-Dichloroethene (cis)	96	2.793	2.794	(0.678)	21096	50.0000	47.6
24 2,2-Dichloropropane	77	2.793	2.794	(0.678)	27563	50.0000	47.5
26 2-Butanone	43	2.809	2.809	(0.682)	20728	250.000	227
143 Methacrylonitrile	141	1.695	1.695	(0.411)	2529	250.000	252(Q)
29 Bromochloromethane	49	3.024	3.024	(0.734)	10127	50.0000	54.5
30 Tetrahydrofuran	42	3.086	3.086	(0.749)	2951	50.0000	34.7
31 Chloroform	83	3.102	3.107	(0.753)	37201	50.0000	48.0
$ 32 Dibromofluoromethane (S)	113	3.280	3.280	(0.796)	15293	50.0000	50.9
33 1,1,1-Trichloroethane	97	3.306	3.306	(0.802)	30503	50.0000	48.9
139 Cyclohexane	56	3.374	3.374	(0.819)	34056	50.0000	51.7
37 Isobutyl alcohol	43	3.374	3.379	(0.819)	3488	50.0000	51.4(Q)
36 1,1-Dichloropropene	75	3.500	3.505	(0.849)	30586	50.0000	51.8
35 Carbon Tetrachloride	117	3.500	3.505	(0.849)	22612	50.0000	48.6
144 isopropyl acetate	61	1.052	1.047	(0.255)	1796	50.0000	48.3(TQ)
147 2,2,4-Trimethylpentane	57	3.887	3.892	(0.943)	76824	50.0000	48.1
38 Benzene	78	3.756	3.756	(0.911)	76925	50.0000	45.5
39 1,2-Dichloroethane	62	3.771	3.777	(0.915)	18843	50.0000	46.4
* 40 Fluorobenzene	96	4.122	4.122	(1.000)	65592	50.0000	
41 Trichloroethene	95	4.577	4.582	(1.110)	23223	50.0000	46.8
140 Methylcyclohexane	55	4.802	4.802	(1.165)	32523	50.0000	51.9
42 1,2-Dichloropropane	63	4.833	4.839	(1.173)	20257	50.0000	49.8(M)
43 Dibromomethane	93	4.969	4.969	(1.206)	9795	50.0000	47.4
44 Methyl methacrylate	69	5.032	5.037	(1.221)	8276	50.0000	45.2
45 Bromodichloromethane	83	5.173	5.173	(1.255)	24036	50.0000	48.7
46 2-Chloroethyl vinyl ether	63	5.550	5.555	(0.761)	8127	100.000	84.4
47 cis-1,3-Dichloropropene	75	5.691	5.691	(0.780)	31321	50.0000	49.5
48 4-Methyl-2-Pentanone	43	5.884	5.885	(0.806)	56445	250.000	251
$ 49 Toluene-d8	98	5.973	5.979	(0.819)	66690	50.0000	51.0
50 Toluene	91	6.047	6.052	(0.829)	92527	50.0000	45.8
51 trans-1,3-Dichloropropene	75	6.308	6.308	(0.865)	22664	50.0000	45.7
52 Ethyl Methacrylate	69	6.444	6.444	(0.883)	20612	50.0000	47.6
53 1,1,2-Trichloroethane	83	6.481	6.486	(0.888)	13805	50.0000	49.0
54 Tetrachloroethene	166	6.611	6.612	(0.906)	30432	50.0000	49.1
55 1,3-Dichloropropane	76	6.632	6.638	(0.909)	25101	50.0000	47.7
56 2-Hexanone	43	6.742	6.742	(0.924)	40821	250.000	250
57 Dibromochloromethane	129	6.831	6.836	(0.936)	15007	50.0000	47.6
58 1,2-Dibromoethane	107	6.915	6.915	(0.948)	14571	50.0000	46.2
* 59 Chlorobenzene-d5	117	7.297	7.302	(1.000)	56159	50.0000	
60 Chlorobenzene	112	7.318	7.323	(1.003)	62419	50.0000	48.4
61 1,1,1,2-Tetrachloroethane	131	7.386	7.391	(1.012)	17554	50.0000	47.7
62 Ethylbenzene	106	7.412	7.417	(1.016)	34074	50.0000	52.2
63 m&p-Xylene	106	7.501	7.501	(1.028)	83157	100.000	110
65 o-Xylene	106	7.773	7.773	(1.065)	41902	50.0000	45.8
66 Styrene	104	7.783	7.783	(1.067)	65706	50.0000	53.9
67 Bromoform	173	7.898	7.898	(0.898)	9315	50.0000	40.0
68 Isopropylbenzene	105	8.018	8.024	(1.099)	115992	50.0000	46.4
69 trans-1,4-Dichloro-2-butene	53	8.238	8.238	(1.129)	4001	50.0000	46.4
$ 70 4-Bromofluorobenzene	95	8.112	8.113	(1.112)	26423	50.0000	49.0
72 1,1,2,2-Tetrachloroethane	83	8.207	8.212	(0.933)	19229	50.0000	42.2
71 Bromobenzene	77	8.201	8.202	(1.124)	47197	50.0000	43.5
73 1,2,3-Trichloropropane	75	8.228	8.228	(0.936)	19318	50.0000	41.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.275	8.275	(0.941)	144490	50.0000	48.7
75 2-Chlorotoluene	91	8.322	8.322	(0.946)	83138	50.0000	44.9
76 4-Chlorotoluene	126	8.322	8.327	(0.946)	25850	50.0000	45.9
77 1,3,5-Trimethylbenzene	105	8.384	8.385	(0.954)	92112	50.0000	46.7
78 tert-Butylbenzene	119	8.573	8.573	(0.975)	99408	50.0000	45.6
79 1,2,4-Trimethylbenzene	105	8.599	8.599	(0.978)	93579	50.0000	46.3
80 sec-Butylbenzene	105	8.693	8.698	(0.989)	130265	50.0000	48.4
81 1,3-Dichlorobenzene	146	8.756	8.756	(0.996)	50519	50.0000	41.6
83 p-Isopropyltoluene	119	8.777	8.777	(0.998)	100975	50.0000	46.1
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.793	(1.000)	28863	50.0000	
84 1,4-Dichlorobenzene	146	8.808	8.808	(1.002)	48490	50.0000	41.7
86 n-Butylbenzene	91	8.996	8.997	(1.023)	107000	50.0000	46.8
85 1,2-Dichlorobenzene	146	9.007	9.007	(1.024)	46773	50.0000	44.8
88 1,2,4-Trichlorobenzene	180	9.828	9.828	(1.118)	37596	50.0000	41.3
91 1,2,3-Trichlorobenzene	180	10.089	10.084	(1.148)	30849	50.0000	42.5
87 1,2-Dibromo-3-chloropropane	155	9.912	9.907	(1.127)	3580	50.0000	46.9
89 Hexachlorobutadiene	225	9.912	9.907	(1.127)	29156	50.0000	45.4
90 Naphthalene	128	9.959	9.959	(1.133)	53074	50.0000	40.8
92 2,methyl-naphthalene	142	10.581	10.581	(1.203)	34289	50.0000	42.4

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a06.d
Lab Smp Id: 50ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 50ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	65592	0.00
59 Chlorobenzene-d5	56159	28080	112318	56159	0.00
82 1,4-Dichlorobenze	28863	14432	57726	28863	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.00
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.00
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	55.2	
74-87-3	Chloromethane	43.5	
75-01-4	Vinyl Chloride	55.5	
74-83-9	Bromomethane	51.0	
75-00-3	Chloroethane	56.4	
75-69-4	Trichlorofluoromethane	57.8	
354-23-4	1,2-dichlorotrifluoroethane	50.4	
60-29-7	Diethyl ether	51.5	
107-02-8	Acrolein	1100	
75-35-4	1,1-Dichloroethene	46.9	
76-13-1	1,1,2trichlorotrifluoroethan	47.5	
67-64-1	Acetone	244	
	Iodomethane	108	
75-05-8	Acetonitrile	1200	
75-15-0	Carbon Disulfide	102	
79-20-9	Methyl Acetate	46.8	
107-05-1	allyl chloride	107	
75-09-2	Methylene Chloride	42.6	
107-13-1	Acrylonitrile	993	
75-65-0	tert-Butyl Alcohol	90.4	
156-60-5	1,2-Dichloroethene (trans)	48.7	
1634-04-4	Methyl-tert-butyl ether	102	
	n-Hexane	47.0	
126-99-8	Chloroprene	47.9	
75-34-3	1,1-Dichloroethane	45.6	
108-05-4	Vinyl Acetate	156	
156-59-2	1,2-Dichloroethene (cis)	47.6	
594-20-7	2,2-Dichloropropane	47.5	
78-93-3	2-Butanone	227	
126-98-7	Methacrylonitrile	252	
74-97-5	Bromochloromethane	54.5	
	Tetrahydrofuran	34.7	
67-66-3	Chloroform	48.0	
71-55-6	1,1,1-Trichloroethane	48.9	
110-82-7	Cyclohexane	51.7	
78-83-1	Isobutyl alcohol	51.4	
563-58-6	1,1-Dichloropropene	51.8	
56-23-5	Carbon Tetrachloride	48.6	
108-21-4	isopropyl acetate	48.3	
540-84-1	2,2,4-Trimethylpentane	48.1	
71-43-2	Benzene	45.5	
107-06-2	1,2-Dichloroethane	46.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	46.8	
108-87-2	Methylcyclohexane	51.9	
78-87-5	1,2-Dichloropropane	49.8	
74-95-3	Dibromomethane	47.4	
80-62-6	Methyl methacrylate	45.2	
75-27-4	Bromodichloromethane	48.7	
110-75-8	2-Chloroethyl vinyl ether	84.4	
10061-01-5	cis-1,3-Dichloropropene	49.5	
108-10-1	4-Methyl-2-Pentanone	251	
108-88-3	Toluene	45.8	
10061-02-6	trans-1,3-Dichloropropene	45.7	
	Ethyl Methacrylate	47.6	
79-00-5	1,1,2-Trichloroethane	49.0	
127-18-4	Tetrachloroethene	49.1	
142-28-9	1,3-Dichloropropane	47.7	
591-78-6	2-Hexanone	250	
124-48-1	Dibromochloromethane	47.6	
106-93-4	1,2-Dibromoethane	46.2	
108-90-7	Chlorobenzene	48.4	
630-20-6	1,1,1,2-Tetrachloroethane	47.7	
100-41-4	Ethylbenzene	52.2	
7816-60-0	m&p-Xylene	110	
95-47-6	o-Xylene	45.8	
100-42-5	Styrene	53.9	
75-25-2	Bromoform	40.0	
98-82-8	Isopropylbenzene	46.4	
	trans-1,4-Dichloro-2-butene	46.4	
79-34-5	1,1,2,2-Tetrachloroethane	42.2	
108-86-1	Bromobenzene	43.5	
96-18-4	1,2,3-Trichloropropane	41.7	
103-65-1	n-Propylbenzene	48.7	
95-49-8	2-Chlorotoluene	44.9	
106-43-4	4-Chlorotoluene	45.9	
108-67-8	1,3,5-Trimethylbenzene	46.7	
98-06-6	tert-Butylbenzene	45.6	
95-63-6	1,2,4-Trimethylbenzene	46.3	
135-98-8	sec-Butylbenzene	48.4	
541-73-1	1,3-Dichlorobenzene	41.6	
99-87-6	p-Isopropyltoluene	46.1	
106-46-7	1,4-Dichlorobenzene	41.7	
104-51-8	n-Butylbenzene	46.8	
95-50-1	1,2-Dichlorobenzene	44.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

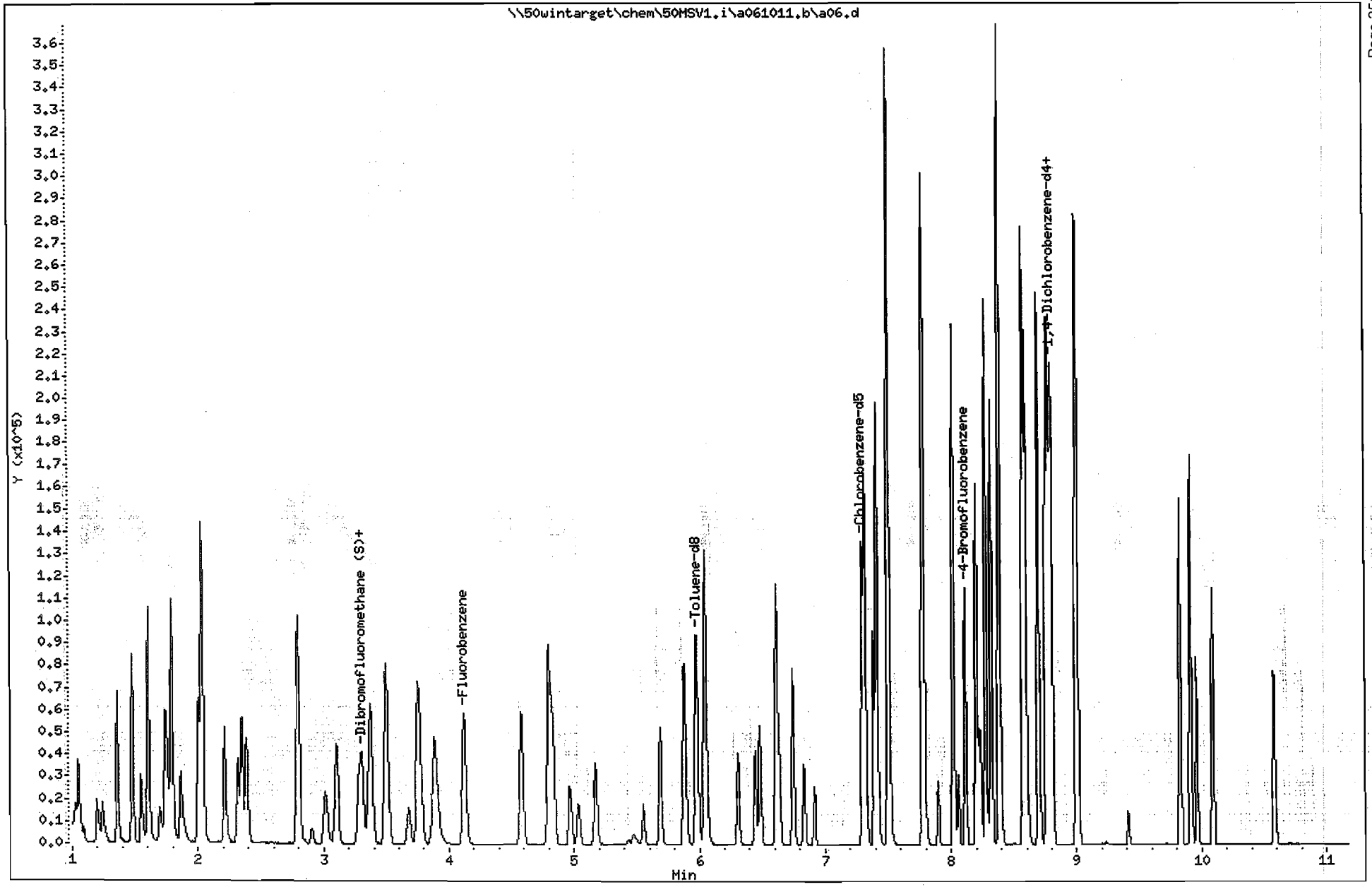
Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	41.3	
87-61-6	1,2,3-Trichlorobenzene	42.5	
96-12-8	1,2-Dibromo-3-chloropropane	46.9	
87-68-3	Hexachlorobutadiene	45.4	
91-20-3	Naphthalene	40.8	
	2,methyl-naphthalene	42.4	
1868-53-7	Dibromofluoromethane (S)	50.9	
2037-26-5	Toluene-d8	51.0	
460-00-4	4-Bromofluorobenzene	49.0	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a06.d
Date : 10-JUN-2011 16:33
Client ID: 50ppb
Sample Info: 50ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a07.d
Lab Smp Id: 150ppb
Client Smp ID: 150ppb
Inj Date : 10-JUN-2011 17:10
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 150ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:15
Cal File: a08.d
Als bottle: 15
Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.918	0.921	(0.223)	95976	150.000	164
2 Chloromethane	50	0.996	1.026	(0.242)	93673	150.000	139
3 Vinyl Chloride	62	1.049	1.047	(0.254)	67302	150.000	165
4 Bromomethane	94	1.190	1.193	(0.289)	37172	150.000	150
5 Chloroethane	64	1.237	1.240	(0.300)	32351	150.000	164
6 Trichlorofluoromethane	101	1.357	1.355	(0.329)	90758	150.000	168
28 1,2-dichlorotrifluoroethane	67	1.477	1.476	(0.358)	57711	150.000	141
7 Diethyl ether	74	1.483	1.481	(0.360)	16970	150.000	145
8 Acrolein	56	1.545	1.544	(0.375)	54379	3000.00	3320
9 1,1-Dichloroethene	96	1.608	1.606	(0.390)	42969	150.000	144
10 1,1,2trichlorotrifluoroethane	101	1.598	1.601	(0.387)	48719	150.000	146
11 Acetone	43	1.624	1.622	(0.394)	25186	750.000	780
12 Iodomethane	142	1.692	1.695	(0.410)	55630	300.000	297
142 Acetonitrile	41	1.791	1.795	(0.434)	97575	3000.00	3460
13 Carbon Disulfide	76	1.739	1.742	(0.422)	275418	300.000	325(M)
138 Methyl Acetate	43	1.796	1.800	(0.436)	15067	150.000	164
14 allyl chloride	41	1.791	1.795	(0.434)	97573	300.000	295(M)
15 Methylene Chloride	84	1.864	1.863	(0.452)	42125	150.000	132
16 Acrylonitrile	53	2.006	2.004	(0.486)	132480	3000.00	3290
27 Propionitrile	54	2.387	2.391	(0.579)	3636	150.000	183(Q)
17 tert-Butyl Alcohol	59	1.922	1.920	(0.466)	4741	300.000	310(M)
18 1,2-Dichloroethene (trans)	96	2.032	2.030	(0.493)	44895	150.000	147
19 Methyl-tert-butyl ether	73	2.037	2.035	(0.494)	164018	300.000	329

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	20 n-Hexane	57	2.215	2.213	(0.537)	61527	150.000	143
	146 Chloroprene	53	2.387	2.391	(0.579)	82632	150.000	169
	21 1,1-Dichloroethane	63	2.319	2.318	(0.562)	91017	150.000	159
	23 Vinyl Acetate	43	2.351	2.349	(0.570)	253566	600.000	609
	25 1,2-Dichloroethene (cis)	96	2.795	2.794	(0.678)	62390	150.000	150
	24 2,2-Dichloropropane	77	2.795	2.794	(0.678)	83166	150.000	153
	26 2-Butanone	43	2.811	2.809	(0.682)	60897	750.000	712
	143 Methacrylonitrile	141	1.692	1.695	(0.410)	7005	750.000	745(Q)
	29 Bromochloromethane	49	3.026	3.024	(0.734)	25456	150.000	157(M)
	30 Tetrahydrofuran	42	3.088	3.086	(0.749)	8682	150.000	109
	31 Chloroform	83	3.104	3.107	(0.753)	109037	150.000	150
$	32 Dibromofluoromethane (S)	113	3.277	3.280	(0.795)	13993	50.0000	49.8
	33 1,1,1-Trichloroethane	97	3.313	3.306	(0.803)	90102	150.000	154
	139 Cyclohexane	56	3.376	3.374	(0.819)	92695	150.000	156
	37 Isobutyl alcohol	43	3.376	3.379	(0.819)	9624	150.000	155
	36 1,1-Dichloropropene	75	3.501	3.505	(0.849)	82152	150.000	155
	35 Carbon Tetrachloride	117	3.507	3.505	(0.850)	66524	150.000	152
	144 isopropyl acetate	61	1.049	1.047	(0.254)	5330	150.000	153(Q)
	147 2,2,4-Trimethylpentane	57	3.888	3.892	(0.943)	220400	150.000	148
	38 Benzene	78	3.758	3.756	(0.911)	230567	150.000	146
	39 1,2-Dichloroethane	62	3.779	3.777	(0.916)	57273	150.000	151
*	40 Fluorobenzene	96	4.124	4.122	(1.000)	61377	50.0000	
	41 Trichloroethene	95	4.579	4.582	(1.110)	70962	150.000	153
	140 Methylcyclohexane	55	4.804	4.802	(1.165)	86436	150.000	147
	42 1,2-Dichloropropane	63	4.835	4.839	(1.172)	58926	150.000	155
	43 Dibromomethane	93	4.971	4.969	(1.205)	29569	150.000	153
	44 Methyl methacrylate	69	5.034	5.037	(1.221)	26776	150.000	158
	45 Bromodichloromethane	83	5.175	5.173	(1.255)	78629	150.000	170
	46 2-Chloroethyl vinyl ether	63	5.552	5.555	(0.761)	20815	300.000	220
	47 cis-1,3-Dichloropropene	75	5.688	5.691	(0.779)	99888	150.000	160
	48 4-Methyl-2-Pentanone	43	5.881	5.885	(0.806)	164068	750.000	777
$	49 Toluene-d8	98	5.975	5.979	(0.819)	60514	50.0000	47.0
	50 Toluene	91	6.049	6.052	(0.829)	252750	150.000	127
	51 trans-1,3-Dichloropropene	75	6.305	6.308	(0.864)	77494	150.000	159
	52 Ethyl Methacrylate	69	6.441	6.444	(0.882)	61072	150.000	143
	53 1,1,2-Trichloroethane	83	6.483	6.486	(0.888)	41267	150.000	149
	54 Tetrachloroethene	166	6.613	6.612	(0.906)	88030	150.000	144
	55 1,3-Dichloropropane	76	6.634	6.638	(0.909)	71632	150.000	138
	56 2-Hexanone	43	6.744	6.742	(0.924)	119987	750.000	788
	57 Dibromochloromethane	129	6.833	6.836	(0.936)	50833	150.000	164
	58 1,2-Dibromoethane	107	6.917	6.915	(0.948)	45461	150.000	146
*	59 Chlorobenzene-d5	117	7.299	7.302	(1.000)	55262	50.0000	
	60 Chlorobenzene	112	7.319	7.323	(1.003)	181374	150.000	143
	61 1,1,1,2-Tetrachloroethane	131	7.387	7.391	(1.012)	57829	150.000	160
	62 Ethylbenzene	106	7.414	7.417	(1.016)	97139	150.000	159
	63 m&p-Xylene	106	7.503	7.501	(1.028)	229647	300.000	331
	65 o-Xylene	106	7.774	7.773	(1.065)	121964	150.000	135
	66 Styrene	104	7.785	7.783	(1.067)	183702	150.000	164
	67 Bromoform	173	7.900	7.898	(0.898)	33946	150.000	151
	68 Isopropylbenzene	105	8.020	8.024	(1.099)	320809	150.000	130
	69 trans-1,4-Dichloro-2-butene	53	8.240	8.238	(1.129)	13204	150.000	159
$	70 4-Bromofluorobenzene	95	8.114	8.113	(1.112)	25540	50.0000	48.1
	72 1,1,2,2-Tetrachloroethane	83	8.209	8.212	(0.933)	58590	150.000	146
	71 Bromobenzene	77	8.198	8.202	(1.123)	142999	150.000	134

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.229	8.228	(0.936)	62900	150.000	154
74 n-Propylbenzene	91	8.277	8.275	(0.941)	389075	150.000	149
75 2-Chlorotoluene	91	8.324	8.322	(0.946)	234299	150.000	144
76 4-Chlorotoluene	126	8.324	8.327	(0.946)	74865	150.000	151
77 1,3,5-Trimethylbenzene	105	8.381	8.385	(0.953)	254944	150.000	147
78 tert-Butylbenzene	119	8.575	8.573	(0.975)	286617	150.000	149
79 1,2,4-Trimethylbenzene	105	8.601	8.599	(0.978)	254830	150.000	143
80 sec-Butylbenzene	105	8.695	8.698	(0.989)	358615	150.000	151
81 1,3-Dichlorobenzene	146	8.758	8.756	(0.996)	148535	150.000	138
83 p-Isopropyltoluene	119	8.773	8.777	(0.998)	263828	150.000	137
* 82 1,4-Dichlorobenzene-d4	152	8.794	8.793	(1.000)	25445	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.805	8.808	(1.001)	142858	150.000	139
86 n-Butylbenzene	91	8.993	8.997	(1.023)	301259	150.000	149
85 1,2-Dichlorobenzene	146	9.009	9.007	(1.024)	130026	150.000	141
88 1,2,4-Trichlorobenzene	180	9.825	9.828	(1.117)	122323	150.000	152
91 1,2,3-Trichlorobenzene	180	10.086	10.084	(1.147)	95877	150.000	150
87 1,2-Dibromo-3-chloropropane	155	9.908	9.907	(1.127)	10477	150.000	156
89 Hexachlorobutadiene	225	9.908	9.907	(1.127)	83778	150.000	148
90 Naphthalene	128	9.961	9.959	(1.133)	162214	150.000	142
92 2,methyl-naphthalene	142	10.583	10.581	(1.203)	103499	150.000	145

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a07.d
Lab Smp Id: 150ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 150ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	61377	-6.43
59 Chlorobenzene-d5	56159	28080	112318	55262	-1.60
82 1,4-Dichlorobenze	28863	14432	57726	25445	-11.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.05
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.02

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	164	
74-87-3	Chloromethane	139	
75-01-4	Vinyl Chloride	165	
74-83-9	Bromomethane	150	
75-00-3	Chloroethane	164	
75-69-4	Trichlorofluoromethane	168	
354-23-4	1,2-dichlorotrifluoroethane	141	
60-29-7	Diethyl ether	145	
107-02-8	Acrolein	3320	
75-35-4	1,1-Dichloroethene	144	
76-13-1	1,1,2trichlorotrifluoroethan	146	
67-64-1	Acetone	780	
	Iodomethane	297	
75-05-8	Acetonitrile	3460	
75-15-0	Carbon Disulfide	325	
79-20-9	Methyl Acetate	164	
107-05-1	allyl chloride	295	
75-09-2	Methylene Chloride	132	
107-13-1	Acrylonitrile	3290	
107-12-0	Propionitrile	183	
75-65-0	tert-Butyl Alcohol	310	
156-60-5	1,2-Dichloroethene (trans)	147	
1634-04-4	Methyl-tert-butyl ether	329	
	n-Hexane	143	
126-99-8	Chloroprene	169	
75-34-3	1,1-Dichloroethane	159	
108-05-4	Vinyl Acetate	609	
156-59-2	1,2-Dichloroethene (cis)	150	
594-20-7	2,2-Dichloropropane	153	
78-93-3	2-Butanone	712	
126-98-7	Methacrylonitrile	745	
74-97-5	Bromochloromethane	157	
	Tetrahydrofuran	109	
67-66-3	Chloroform	150	
71-55-6	1,1,1-Trichloroethane	154	
110-82-7	Cyclohexane	156	
78-83-1	Isobutyl alcohol	155	
563-58-6	1,1-Dichloropropene	155	
56-23-5	Carbon Tetrachloride	152	
108-21-4	isopropyl acetate	153	
540-84-1	2,2,4-Trimethylpentane	148	
71-43-2	Benzene	146	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	151	
79-01-6	Trichloroethene	153	
108-87-2	Methylcyclohexane	147	
78-87-5	1,2-Dichloropropane	155	
74-95-3	Dibromomethane	153	
80-62-6	Methyl methacrylate	158	
75-27-4	Bromodichloromethane	170	
110-75-8	2-Chloroethyl vinyl ether	220	
10061-01-5	cis-1,3-Dichloropropene	160	
108-10-1	4-Methyl-2-Pentanone	777	
108-88-3	Toluene	127	
10061-02-6	trans-1,3-Dichloropropene	159	
	Ethyl Methacrylate	143	
79-00-5	1,1,2-Trichloroethane	149	
127-18-4	Tetrachloroethene	144	
142-28-9	1,3-Dichloropropane	138	
591-78-6	2-Hexanone	788	
124-48-1	Dibromochloromethane	164	
106-93-4	1,2-Dibromoethane	146	
108-90-7	Chlorobenzene	143	
630-20-6	1,1,1,2-Tetrachloroethane	160	
100-41-4	Ethylbenzene	159	
7816-60-0	m&p-Xylene	331	
95-47-6	o-Xylene	135	
100-42-5	Styrene	164	
75-25-2	Bromoform	151	
98-82-8	Isopropylbenzene	130	
	trans-1,4-Dichloro-2-butene	159	
79-34-5	1,1,2,2-Tetrachloroethane	146	
108-86-1	Bromobenzene	134	
96-18-4	1,2,3-Trichloropropane	154	
103-65-1	n-Propylbenzene	149	
95-49-8	2-Chlorotoluene	144	
106-43-4	4-Chlorotoluene	151	
108-67-8	1,3,5-Trimethylbenzene	147	
98-06-6	tert-Butylbenzene	149	
95-63-6	1,2,4-Trimethylbenzene	143	
135-98-8	sec-Butylbenzene	151	
541-73-1	1,3-Dichlorobenzene	138	
99-87-6	p-Isopropyltoluene	137	
106-46-7	1,4-Dichlorobenzene	139	
104-51-8	n-Butylbenzene	149	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

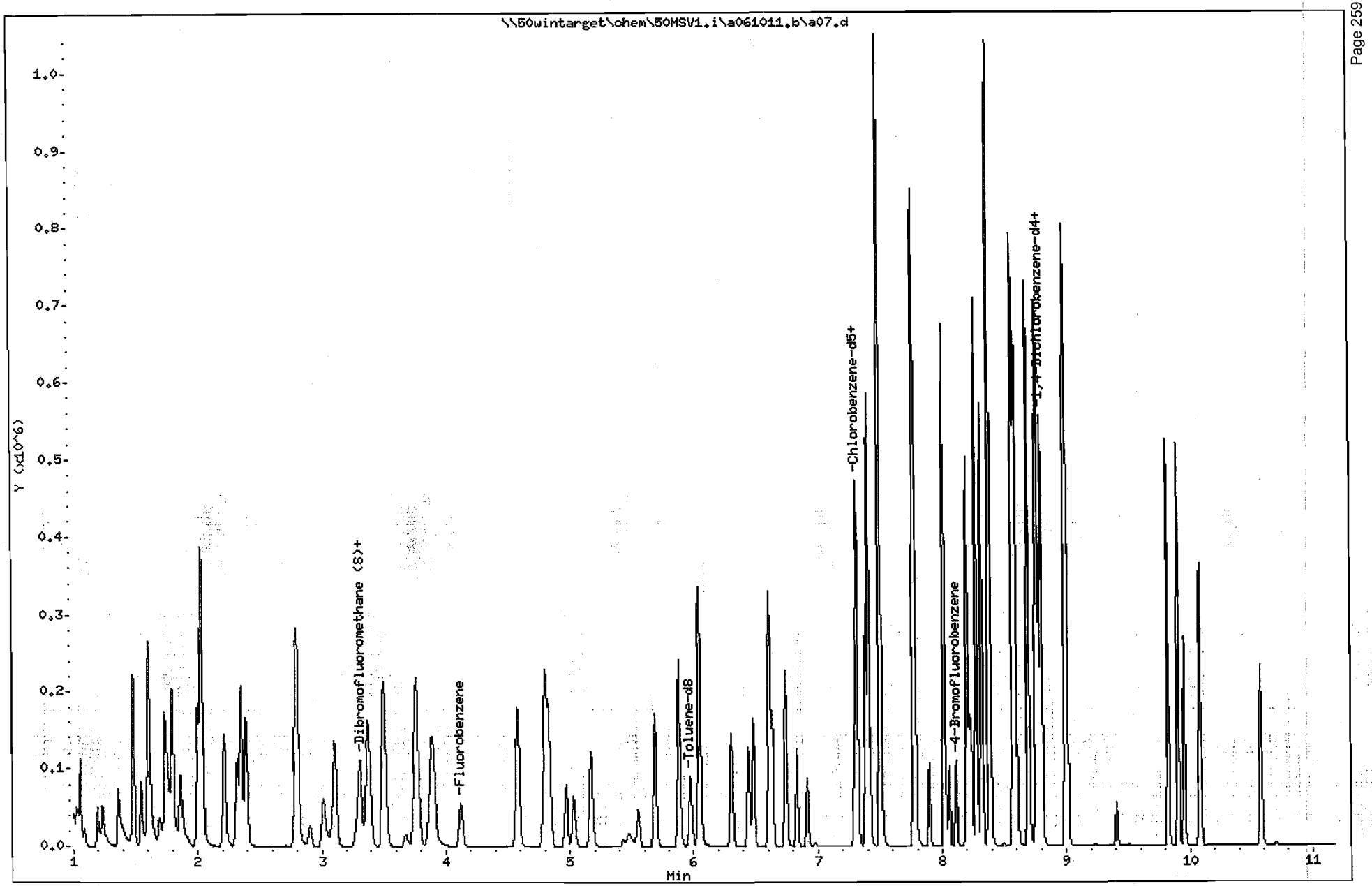
Client SDG: a061011.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1	1,2-Dichlorobenzene	141	
120-82-1	1,2,4-Trichlorobenzene	152	
87-61-6	1,2,3-Trichlorobenzene	150	
96-12-8	1,2-Dibromo-3-chloropropane	156	
87-68-3	Hexachlorobutadiene	148	
91-20-3	Naphthalene	142	
	2,methyl-naphthalene	145	
1868-53-7	Dibromofluoromethane (S)	49.8	
2037-26-5	Toluene-d8	47.0	
460-00-4	4-Bromofluorobenzene	48.1	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a07.d
Date : 10-JUN-2011 17:10
Client ID: 150ppb
Sample Info: 150ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a08.d
Lab Smp Id: 300ppb
Client Smp ID: 300ppb
Inj Date : 10-JUN-2011 17:43
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 300ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:15
Cal File: a08.d
Als bottle: 17
Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.921	0.921	(0.223)	198349	300.000	337
2 Chloromethane	50	0.994	1.026	(0.241)	211879	300.000	305
3 Vinyl Chloride	62	1.046	1.047	(0.254)	131021	300.000	321
4 Bromomethane	94	1.187	1.193	(0.288)	54560	300.000	218
5 Chloroethane	64	1.229	1.240	(0.298)	61338	300.000	309
6 Trichlorofluoromethane	101	1.355	1.355	(0.329)	179289	300.000	331
28 1,2-dichlorotrifluoroethane	67	1.475	1.476	(0.358)	112197	300.000	274
7 Diethyl ether	74	1.485	1.481	(0.360)	32469	300.000	277
8 Acrolein	56	1.548	1.544	(0.376)	101819	6000.00	6200
9 1,1-Dichloroethene	96	1.606	1.606	(0.390)	82868	300.000	277
10 1,1,2trichlorotrifluoroethane	101	1.601	1.601	(0.388)	90494	300.000	271
11 Acetone	43	1.621	1.622	(0.393)	47295	1500.00	1480
12 Iodomethane	142	1.695	1.695	(0.411)	87593	600.000	464
142 Acetonitrile	41	1.794	1.795	(0.435)	157566	6000.00	5660
13 Carbon Disulfide	76	1.737	1.742	(0.421)	490845	600.000	584 (M)
138 Methyl Acetate	43	1.799	1.800	(0.437)	26745	300.000	292
14 allyl chloride	41	1.794	1.795	(0.435)	154793	600.000	470 (M)
15 Methylene Chloride	84	1.862	1.863	(0.452)	79321	300.000	248
16 Acrylonitrile	53	2.003	2.004	(0.486)	233657	6000.00	5830
27 Propionitrile	54	2.390	2.391	(0.580)	6121	300.000	306
17 tert-Butyl Alcohol	59	1.925	1.920	(0.467)	9215	600.000	602 (M)
18 1,2-Dichloroethene (trans)	96	2.035	2.030	(0.494)	79176	300.000	258
19 Methyl-tert-butyl ether	73	2.035	2.035	(0.494)	287928	600.000	582

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
20 n-Hexane	57	2.212	2.213	(0.537)	118296	300.000	275
146 Chloroprene	53	2.390	2.391	(0.580)	138243	300.000	283
21 1,1-Dichloroethane	63	2.317	2.318	(0.562)	155209	300.000	270
23 Vinyl Acetate	43	2.348	2.349	(0.570)	350033	1200.00	835
25 1,2-Dichloroethene (cis)	96	2.793	2.794	(0.678)	115070	300.000	277
24 2,2-Dichloropropane	77	2.798	2.794	(0.679)	155285	300.000	285
26 2-Butanone	43	2.814	2.809	(0.683)	104805	1500.00	1220
29 Bromochloromethane	49	3.023	3.024	(0.734)	47053	300.000	295(M)
30 Tetrahydrofuran	42	3.091	3.086	(0.750)	14729	300.000	185
31 Chloroform	83	3.107	3.107	(0.754)	199429	300.000	274
$ 32 Dibromofluoromethane (S)	113	3.279	3.280	(0.796)	13669	50.0000	48.5
33 1,1,1-Trichloroethane	97	3.311	3.306	(0.803)	175870	300.000	301
139 Cyclohexane	56	3.384	3.374	(0.821)	175425	300.000	296
37 Isobutyl alcohol	43	3.379	3.379	(0.820)	18366	300.000	297
36 1,1-Dichloropropene	75	3.499	3.505	(0.849)	156072	300.000	297
35 Carbon Tetrachloride	117	3.510	3.505	(0.852)	131366	300.000	299
144 isopropyl acetate	61	1.046	1.047	(0.254)	10598	300.000	304(Q)
147 2,2,4-Trimethylpentane	57	3.886	3.892	(0.943)	410536	300.000	274
38 Benzene	78	3.755	3.756	(0.911)	421728	300.000	266
39 1,2-Dichloroethane	62	3.776	3.777	(0.916)	101822	300.000	267
* 40 Fluorobenzene	96	4.121	4.122	(1.000)	61550	50.0000	
41 Trichloroethene	95	4.582	4.582	(1.112)	133392	300.000	286
140 Methylcyclohexane	55	4.801	4.802	(1.165)	159977	300.000	272
42 1,2-Dichloropropane	63	4.838	4.839	(1.174)	107544	300.000	282
43 Dibromomethane	93	4.974	4.969	(1.207)	54581	300.000	281
44 Methyl methacrylate	69	5.037	5.037	(1.222)	50069	300.000	296
45 Bromodichloromethane	83	5.178	5.173	(1.256)	145564	300.000	314
46 2-Chloroethyl vinyl ether	63	5.555	5.555	(0.761)	48405	600.000	523
47 cis-1,3-Dichloropropene	75	5.690	5.691	(0.779)	178598	300.000	294
48 4-Methyl-2-Pentanone	43	5.889	5.885	(0.807)	302716	1500.00	1480
$ 49 Toluene-d8	98	5.978	5.979	(0.819)	60076	50.0000	47.8
50 Toluene	91	6.051	6.052	(0.829)	463655	300.000	238
51 trans-1,3-Dichloropropene	75	6.308	6.308	(0.864)	146501	300.000	307
52 Ethyl Methacrylate	69	6.444	6.444	(0.883)	116192	300.000	279
53 1,1,2-Trichloroethane	83	6.485	6.486	(0.888)	71158	300.000	262
54 Tetrachloroethene	166	6.611	6.612	(0.905)	153961	300.000	258
55 1,3-Dichloropropane	76	6.637	6.638	(0.909)	125584	300.000	248
56 2-Hexanone	43	6.742	6.742	(0.923)	217092	1500.00	1480
57 Dibromochloromethane	129	6.836	6.836	(0.936)	97508	300.000	322
58 1,2-Dibromoethane	107	6.914	6.915	(0.947)	84529	300.000	278
* 59 Chlorobenzene-d5	117	7.301	7.302	(1.000)	53999	50.0000	
60 Chlorobenzene	112	7.322	7.323	(1.003)	325444	300.000	262
61 1,1,1,2-Tetrachloroethane	131	7.390	7.391	(1.012)	109503	300.000	309
62 Ethylbenzene	106	7.416	7.417	(1.016)	172989	300.000	294
63 m&p-Xylene	106	7.505	7.501	(1.028)	386089	600.000	579
65 o-Xylene	106	7.777	7.773	(1.065)	213706	300.000	243
66 Styrene	104	7.788	7.783	(1.067)	314366	300.000	291
67 Bromoform	173	7.903	7.898	(0.898)	67924	300.000	300
68 Isopropylbenzene	105	8.023	8.024	(1.099)	580269	300.000	242
69 trans-1,4-Dichloro-2-butene	53	8.243	8.238	(1.129)	23914	300.000	296
$ 70 4-Bromofluorobenzene	95	8.112	8.113	(1.111)	25626	50.0000	49.4
72 1,1,2,2-Tetrachloroethane	83	8.211	8.212	(0.933)	104438	300.000	262
71 Bromobenzene	77	8.201	8.202	(1.123)	257352	300.000	247
73 1,2,3-Trichloropropane	75	8.232	8.228	(0.936)	110457	300.000	272

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.279	8.275	(0.941)	671671	300.000	258
75 2-Chlorotoluene	91	8.326	8.322	(0.946)	400346	300.000	247
76 4-Chlorotoluene	126	8.326	8.327	(0.946)	133278	300.000	270
77 1,3,5-Trimethylbenzene	105	8.384	8.385	(0.953)	421157	300.000	244
78 tert-Butylbenzene	119	8.572	8.573	(0.974)	499420	300.000	261
79 1,2,4-Trimethylbenzene	105	8.598	8.599	(0.977)	428574	300.000	242
80 sec-Butylbenzene	105	8.698	8.698	(0.989)	630714	300.000	267
81 1,3-Dichlorobenzene	146	8.761	8.756	(0.996)	268663	300.000	252
83 p-Isopropyltoluene	119	8.776	8.777	(0.998)	473811	300.000	247
* 82 1,4-Dichlorobenzene-d4	152	8.797	8.793	(1.000)	25300	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.808	8.808	(1.001)	252666	300.000	248
86 n-Butylbenzene	91	8.996	8.997	(1.023)	524713	300.000	262
85 1,2-Dichlorobenzene	146	9.012	9.007	(1.024)	231409	300.000	253
88 1,2,4-Trichlorobenzene	180	9.828	9.828	(1.117)	225678	300.000	283
91 1,2,3-Trichlorobenzene	180	10.084	10.084	(1.146)	184671	300.000	290
87 1,2-Dibromo-3-chloropropane	155	9.911	9.907	(1.127)	19727	300.000	297
89 Hexachlorobutadiene	225	9.911	9.907	(1.127)	157910	300.000	280
90 Naphthalene	128	9.958	9.959	(1.132)	308704	300.000	271
92 2,methyl-naphthalene	142	10.581	10.581	(1.203)	193366	300.000	273

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a08.d
Lab Smp Id: 300ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 300ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	61550	-6.16
59 Chlorobenzene-d5	56159	28080	112318	53999	-3.85
82 1,4-Dichlorobenze	28863	14432	57726	25300	-12.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.07
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.05

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.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	337	
74-87-3	Chloromethane	305	
75-01-4	Vinyl Chloride	321	
74-83-9	Bromomethane	218	
75-00-3	Chloroethane	309	
75-69-4	Trichlorofluoromethane	331	
354-23-4	1,2-dichlorotrifluoroethane	274	
60-29-7	Diethyl ether	277	
107-02-8	Acrolein	6200	
75-35-4	1,1-Dichloroethene	277	
76-13-1	1,1,2trichlorotrifluoroethan	271	
67-64-1	Acetone	1480	
	Iodomethane	464	
75-05-8	Acetonitrile	5660	
75-15-0	Carbon Disulfide	584	
79-20-9	Methyl Acetate	292	
107-05-1	allyl chloride	470	
75-09-2	Methylene Chloride	248	
107-13-1	Acrylonitrile	5830	
107-12-0	Propionitrile	306	
75-65-0	tert-Butyl Alcohol	602	
156-60-5	1,2-Dichloroethene (trans)	258	
1634-04-4	Methyl-tert-butyl ether	582	
	n-Hexane	275	
126-99-8	Chloroprene	283	
75-34-3	1,1-Dichloroethane	270	
108-05-4	Vinyl Acetate	835	
156-59-2	1,2-Dichloroethene (cis)	277	
594-20-7	2,2-Dichloropropane	285	
78-93-3	2-Butanone	1220	
74-97-5	Bromochloromethane	295	
	Tetrahydrofuran	185	
67-66-3	Chloroform	274	
71-55-6	1,1,1-Trichloroethane	301	
110-82-7	Cyclohexane	296	
78-83-1	Isobutyl alcohol	297	
563-58-6	1,1-Dichloropropene	297	
56-23-5	Carbon Tetrachloride	299	
108-21-4	isopropyl acetate	304	
540-84-1	2,2,4-Trimethylpentane	274	
71-43-2	Benzene	266	
107-06-2	1,2-Dichloroethane	267	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	286	
108-87-2	Methylcyclohexane	272	
78-87-5	1,2-Dichloropropane	282	
74-95-3	Dibromomethane	281	
80-62-6	Methyl methacrylate	296	
75-27-4	Bromodichloromethane	314	
110-75-8	2-Chloroethyl vinyl ether	523	
10061-01-5	cis-1,3-Dichloropropene	294	
108-10-1	4-Methyl-2-Pentanone	1480	
108-88-3	Toluene	238	
10061-02-6	trans-1,3-Dichloropropene	307	
	Ethyl Methacrylate	279	
79-00-5	1,1,2-Trichloroethane	262	
127-18-4	Tetrachloroethene	258	
142-28-9	1,3-Dichloropropane	248	
591-78-6	2-Hexanone	1480	
124-48-1	Dibromochloromethane	322	
106-93-4	1,2-Dibromoethane	278	
108-90-7	Chlorobenzene	262	
630-20-6	1,1,1,2-Tetrachloroethane	309	
100-41-4	Ethylbenzene	294	
7816-60-0	m&p-Xylene	579	
95-47-6	o-Xylene	243	
100-42-5	Styrene	291	
75-25-2	Bromoform	300	
98-82-8	Isopropylbenzene	242	
	trans-1,4-Dichloro-2-butene	296	
79-34-5	1,1,2,2-Tetrachloroethane	262	
108-86-1	Bromobenzene	247	
96-18-4	1,2,3-Trichloropropane	272	
103-65-1	n-Propylbenzene	258	
95-49-8	2-Chlorotoluene	247	
106-43-4	4-Chlorotoluene	270	
108-67-8	1,3,5-Trimethylbenzene	244	
98-06-6	tert-Butylbenzene	261	
95-63-6	1,2,4-Trimethylbenzene	242	
135-98-8	sec-Butylbenzene	267	
541-73-1	1,3-Dichlorobenzene	252	
99-87-6	p-Isopropyltoluene	247	
106-46-7	1,4-Dichlorobenzene	248	
104-51-8	n-Butylbenzene	262	
95-50-1	1,2-Dichlorobenzene	253	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

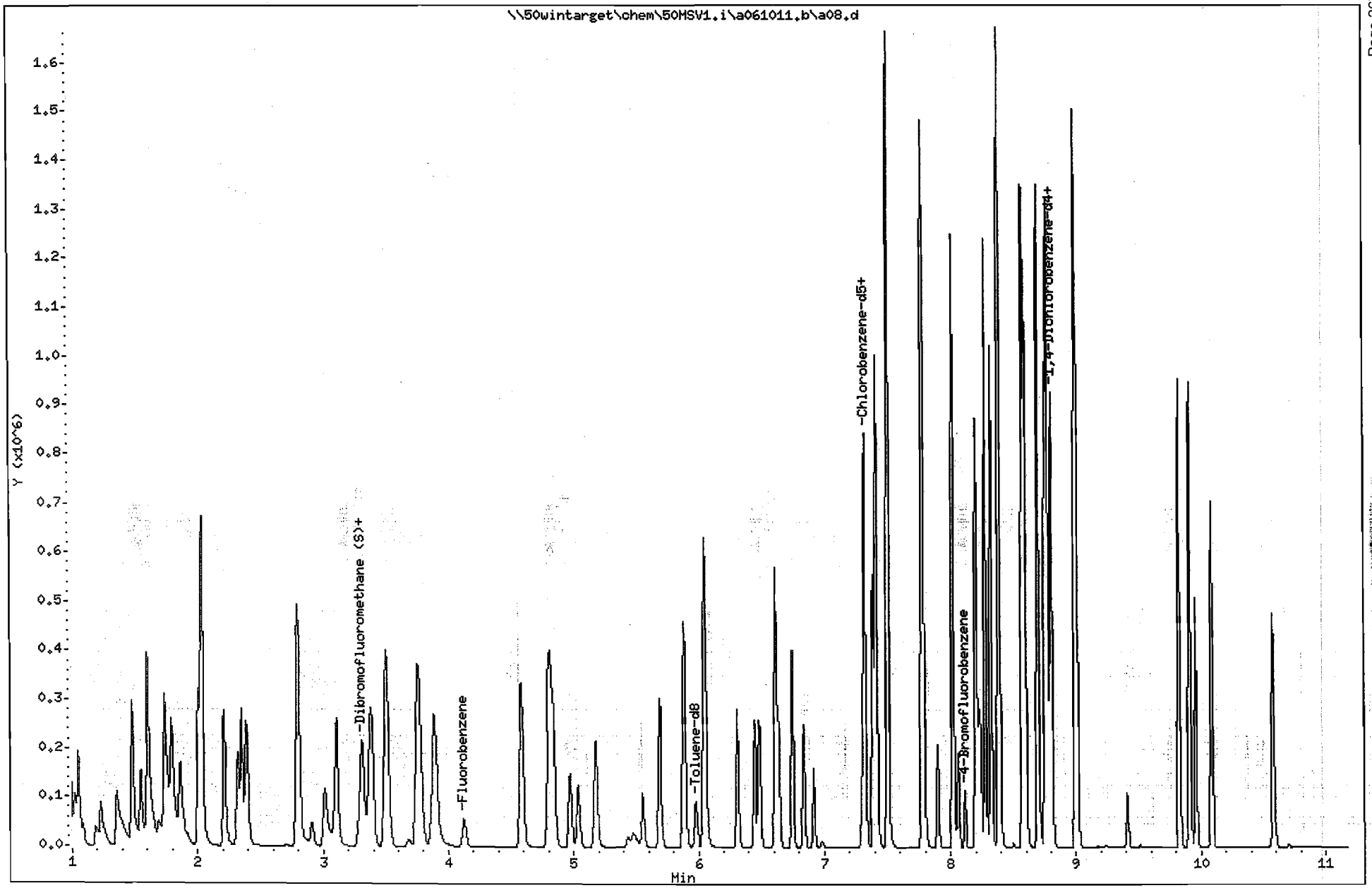
Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	283	
87-61-6	1,2,3-Trichlorobenzene	290	
96-12-8	1,2-Dibromo-3-chloropropane	297	
87-68-3	Hexachlorobutadiene	280	
91-20-3	Naphthalene	271	
	2,methyl-naphthalene	273	
1868-53-7	Dibromofluoromethane (S)	48.5	
2037-26-5	Toluene-d8	47.8	
460-00-4	4-Bromofluorobenzene	49.4	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a08.d
Date : 10-JUN-2011 17:43
Client ID: 300ppb
Sample Info: 300ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\a09icv.d
Lab Smp Id: icv 34D-379 Client Smp ID: icv
Inj Date : 10-JUN-2011 18:20
Operator : rsw Inst ID: 50MSV1.i
Smp Info : icv 34D-379
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 11-Jun-2011 14:15 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 17:43 Cal File: a08.d
Als bottle: 19 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.919	0.921	(0.223)	36149	59.8964	59.9
2 Chloromethane	50	1.028	1.026	(0.249)	30633	48.9878	49.0
3 Vinyl Chloride	62	1.049	1.047	(0.254)	26871	64.1803	64.2
4 Bromomethane	94	1.196	1.193	(0.290)	13219	54.1853	54.2
5 Chloroethane	64	1.238	1.240	(0.300)	12210	59.9941	60.0
6 Trichlorofluoromethane	101	1.358	1.355	(0.329)	31266	56.2152	56.2
28 1,2-dichlorotrifluoroethane	67	1.478	1.476	(0.358)	23643	56.2155	56.2
7 Diethyl ether	74	1.483	1.481	(0.359)	6635	55.1616	55.2
8 Acrolein	56	1.546	1.544	(0.374)	36941	2191.30	2190(R)
9 1,1-Dichloroethene	96	1.609	1.606	(0.390)	16667	54.2764	54.3
10 1,1,2trichlorotrifluoroethane	101	1.604	1.601	(0.388)	17879	52.1096	52.1
11 Acetone	43	1.619	1.622	(0.392)	10620	303.733	304
12 Iodomethane	142	1.693	1.695	(0.410)	21596	113.931	114
142 Acetonitrile	41	1.797	1.795	(0.435)	35493	1123.00	1120
13 Carbon Disulfide	76	1.740	1.742	(0.421)	138683	155.260	155(R)
138 Methyl Acetate	43	1.797	1.800	(0.435)	7358	75.8005	75.8(R)
14 allyl chloride	41	1.797	1.795	(0.435)	35841	101.920	102(M)
15 Methylene Chloride	84	1.865	1.863	(0.452)	15432	46.9981	47.0
16 Acrylonitrile	53	2.001	2.004	(0.485)	46145	1066.16	1070
27 Propionitrile	54	2.388	2.391	(0.578)	943	46.0103	46.0(Q)
17 tert-Butyl Alcohol	59	1.917	1.920	(0.464)	1590	101.175	101
18 1,2-Dichloroethene (trans)	96	2.033	2.030	(0.492)	16666	52.8799	52.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	19 Methyl-tert-butyl ether	73	2.033	2.035	(0.492)	59047	109.778	110
	20 n-Hexane	57	2.216	2.213	(0.537)	23501	53.1769	53.2
	146 Chloroprene	53	2.388	2.391	(0.578)	24002	47.8113	47.8
	21 1,1-Dichloroethane	63	2.315	2.318	(0.561)	29102	49.2957	49.3
	23 Vinyl Acetate	43	2.352	2.349	(0.569)	77186	186.527	186
	25 1,2-Dichloroethene (cis)	96	2.796	2.794	(0.677)	24769	58.0447	58.0
	24 2,2-Dichloropropane	77	2.796	2.794	(0.677)	31768	56.8378	56.8
	26 2-Butanone	43	2.812	2.809	(0.681)	22965	260.768	261
	143 Methacrylonitrile	141	1.693	1.695	(0.410)	2617	270.374	270(Q)
	29 Bromochloromethane	49	3.021	3.024	(0.732)	11278	63.9684	64.0
	30 Tetrahydrofuran	42	3.089	3.086	(0.748)	3211	39.2508	39.2
	31 Chloroform	83	3.110	3.107	(0.753)	37494	50.1851	50.2
$	32 Dibromofluoromethane (S)	113	3.283	3.280	(0.795)	15318	52.9253	52.9
	33 1,1,1-Trichloroethane	97	3.309	3.306	(0.801)	32120	53.4973	53.5
	139 Cyclohexane	56	3.377	3.374	(0.818)	35138	55.5463	55.5
	37 Isobutyl alcohol	43	3.377	3.379	(0.818)	3491	53.4410	53.4(Q)
	36 1,1-Dichloropropene	75	3.502	3.505	(0.848)	30604	53.9708	54.0
	35 Carbon Tetrachloride	117	3.507	3.505	(0.849)	24561	54.7147	54.7
	144 isopropyl acetate	61	1.049	1.047	(0.254)	2087	58.2752	58.3(Q)
	147 2,2,4-Trimethylpentane	57	3.894	3.892	(0.943)	80541	52.3776	52.4
	38 Benzene	78	3.753	3.756	(0.909)	87775	53.9154	53.9
	39 1,2-Dichloroethane	62	3.779	3.777	(0.915)	20401	52.1429	52.1
*	40 Fluorobenzene	96	4.130	4.122	(1.000)	63180	50.0000	
	41 Trichloroethene	95	4.580	4.582	(1.109)	25452	53.2193	53.2
	140 Methylcyclohexane	55	4.804	4.802	(1.163)	32465	53.7871	53.8
	42 1,2-Dichloropropane	63	4.836	4.839	(1.171)	21381	54.6356	54.6
	43 Dibromomethane	93	4.972	4.969	(1.204)	11028	55.3735	55.4
	44 Methyl methacrylate	69	5.035	5.037	(1.219)	39310	226.218	226
	45 Bromodichloromethane	83	5.176	5.173	(1.253)	26897	56.5942	56.6
	46 2-Chloroethyl vinyl ether	63	5.558	5.555	(0.761)	3349	31.6555	31.6(R)
	47 cis-1,3-Dichloropropene	75	5.688	5.691	(0.779)	32766	47.1468	47.1
	48 4-Methyl-2-Pentanone	43	5.882	5.885	(0.806)	63805	258.540	258
$	49 Toluene-d8	98	5.981	5.979	(0.819)	68161	47.4498	47.4
	50 Toluene	91	6.049	6.052	(0.829)	100018	45.0223	45.0
	51 trans-1,3-Dichloropropene	75	6.311	6.308	(0.865)	25249	46.3350	46.3
	52 Ethyl Methacrylate	69	6.442	6.444	(0.882)	86521	182.095	182
	53 1,1,2-Trichloroethane	83	6.483	6.486	(0.888)	14510	46.8423	46.8
	54 Tetrachloroethene	166	6.614	6.612	(0.906)	30433	44.6920	44.7
	55 1,3-Dichloropropane	76	6.635	6.638	(0.909)	25778	44.5884	44.6
	56 2-Hexanone	43	6.745	6.742	(0.924)	47682	267.617	268
	57 Dibromochloromethane	129	6.834	6.836	(0.936)	16748	48.3546	48.4
	58 1,2-Dibromoethane	107	6.912	6.915	(0.947)	16615	47.9323	47.9
*	59 Chlorobenzene-d5	117	7.299	7.302	(1.000)	61687	50.0000	
	60 Chlorobenzene	112	7.320	7.323	(1.003)	66844	47.1736	47.2
	61 1,1,1,2-Tetrachloroethane	131	7.388	7.391	(1.012)	19765	48.8754	48.9
	62 Ethylbenzene	106	7.414	7.417	(1.016)	39082	54.6710	54.7
	63 m&p-Xylene	106	7.503	7.501	(1.028)	89961	108.521	108
	65 o-Xylene	106	7.775	7.773	(1.065)	46922	46.6985	46.7
	66 Styrene	104	7.786	7.783	(1.067)	75354	56.5750	56.6
	67 Bromoform	173	7.901	7.898	(0.898)	10721	45.2777	45.3
	68 Isopropylbenzene	105	8.021	8.024	(1.099)	115980	42.2657	42.3
	145 n-amyl acetate	70	7.927	7.926	(1.919)	56798		(Q)
	69 trans-1,4-Dichloro-2-butene	53	8.241	8.238	(1.129)	16194	174.678	175(Q)
$	70 4-Bromofluorobenzene	95	8.115	8.113	(1.112)	27824	46.9623	47.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.209	8.212	(0.933)	22378	49.0674	49.1
71 Bromobenzene	77	8.199	8.202	(1.123)	60770	50.9819	51.0
73 1,2,3-Trichloropropane	75	8.241	8.228	(0.937)	38782	83.6116	83.6(Q)
74 n-Propylbenzene	91	8.277	8.275	(0.941)	149432	50.3375	50.3
75 2-Chlorotoluene	91	8.324	8.322	(0.946)	88299	47.6720	47.7
76 4-Chlorotoluene	126	8.324	8.327	(0.946)	27585	48.9497	48.9
77 1,3,5-Trimethylbenzene	105	8.382	8.385	(0.953)	100972	51.1154	51.1
78 tert-Butylbenzene	119	8.570	8.573	(0.974)	103253	47.3145	47.3
79 1,2,4-Trimethylbenzene	105	8.596	8.599	(0.977)	103597	51.2277	51.2
80 sec-Butylbenzene	105	8.696	8.698	(0.989)	144381	53.6004	53.6
81 1,3-Dichlorobenzene	146	8.758	8.756	(0.996)	57456	47.1909	47.2
83 p-Isopropyltoluene	119	8.774	8.777	(0.998)	106899	48.7847	48.8
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.793	(1.000)	28903	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.806	8.808	(1.001)	52500	45.0775	45.1
86 n-Butylbenzene	91	8.994	8.997	(1.023)	119229	52.0360	52.0
85 1,2-Dichlorobenzene	146	9.010	9.007	(1.024)	51730	49.5384	49.5
88 1,2,4-Trichlorobenzene	180	9.825	9.828	(1.117)	43680	47.9423	47.9
91 1,2,3-Trichlorobenzene	180	10.087	10.084	(1.147)	38239	52.6073	52.6
87 1,2-Dibromo-3-chloropropane	155	9.909	9.907	(1.127)	4233	55.4283	55.4
89 Hexachlorobutadiene	225	9.909	9.907	(1.127)	33586	52.1859	52.2
90 Naphthalene	128	9.961	9.959	(1.133)	66586	51.1603	51.2
92 2,methyl-naphthalene	142	10.579	10.581	(1.203)	49246	60.8338	60.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: a09icv.d
Lab Smp Id: icv 34D-379
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: icv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	72523	36262	145046	63180	-12.88
59 Chlorobenzene-d5	63871	31936	127742	61687	-3.42
82 1,4-Dichlorobenze	31277	15639	62554	28903	-7.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.13	0.19
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.04
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.03

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: icv 34D-379
Level: LOW
Data Type: MS DATA
SpikeList File: 8260icv.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Client SDG: a061011.b
Fraction: VOA
Client Smp ID: icv
Operator: rsw
SampleType: ICV
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	59.9	119.79	70-130
2 Chloromethane	50.0	49.0	97.98	70-130
3 Vinyl Chloride	50.0	64.2	128.36	70-130
4 Bromomethane	50.0	54.2	108.37	70-130
5 Chloroethane	50.0	60.0	119.99	70-130
6 Trichlorofluoromet	50.0	56.2	112.43	70-130
28 1,2-dichlorotriflu	50.0	56.2	112.43	70-130
7 Diethyl ether	50.0	55.2	110.32	70-130
8 Acrolein	1000	2190	219.13*	70-130
9 1,1-Dichloroethene	50.0	54.3	108.55	70-130
10 1,1,2trichlorotrif	50.0	52.1	104.22	70-130
11 Acetone	250	304	121.49	70-130
12 Iodomethane	100	114	113.93	70-130
13 Carbon Disulfide	100	155	155.26*	70-130
138 Methyl Acetate	50.0	75.8	151.60*	70-130
14 allyl chloride	100	102	101.92	70-130
15 Methylene Chloride	50.0	47.0	94.00	70-130
16 Acrylonitrile	1000	1070	106.62	70-130
27 Propionitrile	50.0	46.0	92.02	70-130
18 1,2-Dichloroethene	50.0	52.9	105.76	70-130
19 Methyl-tert-butyl	100	110	109.78	70-130
20 n-Hexane	50.0	53.2	106.35	70-130
21 1,1-Dichloroethane	50.0	49.3	98.59	70-130
23 Vinyl Acetate	200	186	93.26	70-130
25 1,2-Dichloroethene	50.0	58.0	116.09	70-130
24 2,2-Dichloropropan	50.0	56.8	113.68	70-130
26 2-Butanone	250	261	104.31	70-130
29 Bromochloromethane	50.0	64.0	127.94	70-130
30 Tetrahydrofuran	50.0	39.2	78.50	70-130
31 Chloroform	50.0	50.2	100.37	70-130
33 1,1,1-Trichloroeth	50.0	53.5	106.99	70-130
139 Cyclohexane	50.0	55.5	111.09	70-130
37 Isobutyl alcohol	50.0	53.4	106.88	70-130
36 1,1-Dichloropropen	50.0	54.0	107.94	70-130
35 Carbon Tetrachlori	50.0	54.7	109.43	70-130
38 Benzene	50.0	53.9	107.83	70-130
39 1,2-Dichloroethane	50.0	52.1	104.29	70-130
41 Trichloroethene	50.0	53.2	106.44	70-130
140 Methylcyclohexane	50.0	53.8	107.57	70-130
42 1,2-Dichloropropan	50.0	54.6	109.27	70-130

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
43 Dibromomethane	50.0	55.4	110.75	70-130
44 Methyl methacrylat	200	226	113.11	70-130
45 Bromodichlorometha	50.0	56.6	113.19	70-130
46 2-Chloroethyl viny	100	31.6	MC 31.66*	70-130
47 cis-1,3-Dichloropr	50.0	47.1	94.29	70-130
48 4-Methyl-2-Pentano	250	258	103.42	70-130
50 Toluene	50.0	45.0	90.04	70-130
51 trans-1,3-Dichloro	50.0	46.3	92.67	70-130
52 Ethyl Methacrylate	200	182	91.05	70-130
53 1,1,2-Trichloroeth	50.0	46.8	93.68	70-130
54 Tetrachloroethene	50.0	44.7	89.38	70-130
55 1,3-Dichloropropan	50.0	44.6	89.18	70-130
56 2-Hexanone	250	268	107.05	70-130
57 Dibromochlorometha	50.0	48.4	96.71	70-130
58 1,2-Dibromoethane	50.0	47.9	95.86	70-130
60 Chlorobenzene	50.0	47.2	94.35	70-130
61 1,1,1,2-Tetrachlor	50.0	48.9	97.75	70-130
62 Ethylbenzene	50.0	54.7	109.34	70-130
63 m&p-Xylene	100	108	108.52	70-130
65 o-Xylene	50.0	46.7	93.40	70-130
66 Styrene	50.0	56.6	113.15	70-130
67 Bromoform	50.0	45.3	90.56	70-130
68 Isopropylbenzene	50.0	42.3	84.53	70-130
69 trans-1,4-Dichloro	200	175	87.34	70-130
72 1,1,2,2-Tetrachlor	50.0	49.1	98.13	70-130
71 Bromobenzene	50.0	51.0	101.96	70-130
73 1,2,3-Trichloropro	100	83.6	83.61	70-130
74 n-Propylbenzene	50.0	50.3	100.67	70-130
75 2-Chlorotoluene	50.0	47.7	95.34	70-130
76 4-Chlorotoluene	50.0	48.9	97.90	70-130
77 1,3,5-Trimethylben	50.0	51.1	102.23	70-130
78 tert-Butylbenzene	50.0	47.3	94.63	70-130
79 1,2,4-Trimethylben	50.0	51.2	102.46	70-130
80 sec-Butylbenzene	50.0	53.6	107.20	70-130
81 1,3-Dichlorobenzen	50.0	47.2	94.38	70-130
83 p-Isopropyltoluene	50.0	48.8	97.57	70-130
84 1,4-Dichlorobenzen	50.0	45.1	90.15	70-130
86 n-Butylbenzene	50.0	52.0	104.07	70-130
85 1,2-Dichlorobenzen	50.0	49.5	99.08	70-130
88 1,2,4-Trichloroben	50.0	47.9	95.88	70-130
91 1,2,3-Trichloroben	50.0	52.6	105.21	70-130
87 1,2-Dibromo-3-chlo	50.0	55.4	110.86	70-130
89 Hexachlorobutadien	50.0	52.2	104.37	70-130
90 Naphthalene	50.0	51.2	102.32	70-130
92 2,methyl-naphthale	50.0	60.8	121.67	70-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	52.9	105.85	80-123
$ 49 Toluene-d8	50.0	47.4	94.90	80-116

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 70 4-Bromofluorobenze	50.0	47.0	93.92	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-379
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	59.9	
74-87-3	Chloromethane	49.0	
75-01-4	Vinyl Chloride	64.2	
74-83-9	Bromomethane	54.2	
75-00-3	Chloroethane	60.0	
75-69-4	Trichlorofluoromethane	56.2	
354-23-4	1,2-dichlorotrifluoroethane	56.2	
60-29-7	Diethyl ether	55.2	
107-02-8	Acrolein	2190	
75-35-4	1,1-Dichloroethene	54.3	
76-13-1	1,1,2trichlorotrifluoroethan	52.1	
67-64-1	Acetone	304	
	Iodomethane	114	
75-05-8	Acetonitrile	1120	
75-15-0	Carbon Disulfide	155	
79-20-9	Methyl Acetate	75.8	
107-05-1	allyl chloride	102	
75-09-2	Methylene Chloride	47.0	
107-13-1	Acrylonitrile	1070	
107-12-0	Propionitrile	46.0	
75-65-0	tert-Butyl Alcohol	101	
156-60-5	1,2-Dichloroethene (trans)	52.9	
1634-04-4	Methyl-tert-butyl ether	110	
	n-Hexane	53.2	
126-99-8	Chloroprene	47.8	
75-34-3	1,1-Dichloroethane	49.3	
108-05-4	Vinyl Acetate	186	
156-59-2	1,2-Dichloroethene (cis)	58.0	
594-20-7	2,2-Dichloropropane	56.8	
78-93-3	2-Butanone	261	
126-98-7	Methacrylonitrile	270	
74-97-5	Bromochloromethane	64.0	
	Tetrahydrofuran	39.2	
67-66-3	Chloroform	50.2	
71-55-6	1,1,1-Trichloroethane	53.5	
110-82-7	Cyclohexane	55.5	
78-83-1	Isobutyl alcohol	53.4	
563-58-6	1,1-Dichloropropene	54.0	
56-23-5	Carbon Tetrachloride	54.7	
108-21-4	isopropyl acetate	58.3	
540-84-1	2,2,4-Trimethylpentane	52.4	
71-43-2	Benzene	53.9	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-379
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a061011.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	52.1	
79-01-6	Trichloroethene	53.2	
108-87-2	Methylcyclohexane	53.8	
78-87-5	1,2-Dichloropropane	54.6	
74-95-3	Dibromomethane	55.4	
80-62-6	Methyl methacrylate	226	
75-27-4	Bromodichloromethane	56.6	
110-75-8	2-Chloroethyl vinyl ether	31.6	
10061-01-5	cis-1,3-Dichloropropene	47.1	
108-10-1	4-Methyl-2-Pentanone	258	
108-88-3	Toluene	45.0	
10061-02-6	trans-1,3-Dichloropropene	46.3	
	Ethyl Methacrylate	182	
79-00-5	1,1,2-Trichloroethane	46.8	
127-18-4	Tetrachloroethene	44.7	
142-28-9	1,3-Dichloropropane	44.6	
591-78-6	2-Hexanone	268	
124-48-1	Dibromochloromethane	48.4	
106-93-4	1,2-Dibromoethane	47.9	
108-90-7	Chlorobenzene	47.2	
630-20-6	1,1,1,2-Tetrachloroethane	48.9	
100-41-4	Ethylbenzene	54.7	
7816-60-0	m&p-Xylene	108	
95-47-6	o-Xylene	46.7	
100-42-5	Styrene	56.6	
75-25-2	Bromoform	45.3	
98-82-8	Isopropylbenzene	42.3	
628-63-7	n-amyl acetate	0.000	
	trans-1,4-Dichloro-2-butene	175	
79-34-5	1,1,2,2-Tetrachloroethane	49.1	
108-86-1	Bromobenzene	51.0	
96-18-4	1,2,3-Trichloropropane	83.6	
103-65-1	n-Propylbenzene	50.3	
95-49-8	2-Chlorotoluene	47.7	
106-43-4	4-Chlorotoluene	48.9	
108-67-8	1,3,5-Trimethylbenzene	51.1	
98-06-6	tert-Butylbenzene	47.3	
95-63-6	1,2,4-Trimethylbenzene	51.2	
135-98-8	sec-Butylbenzene	53.6	
541-73-1	1,3-Dichlorobenzene	47.2	
99-87-6	p-Isopropyltoluene	48.8	
106-46-7	1,4-Dichlorobenzene	45.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-379
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

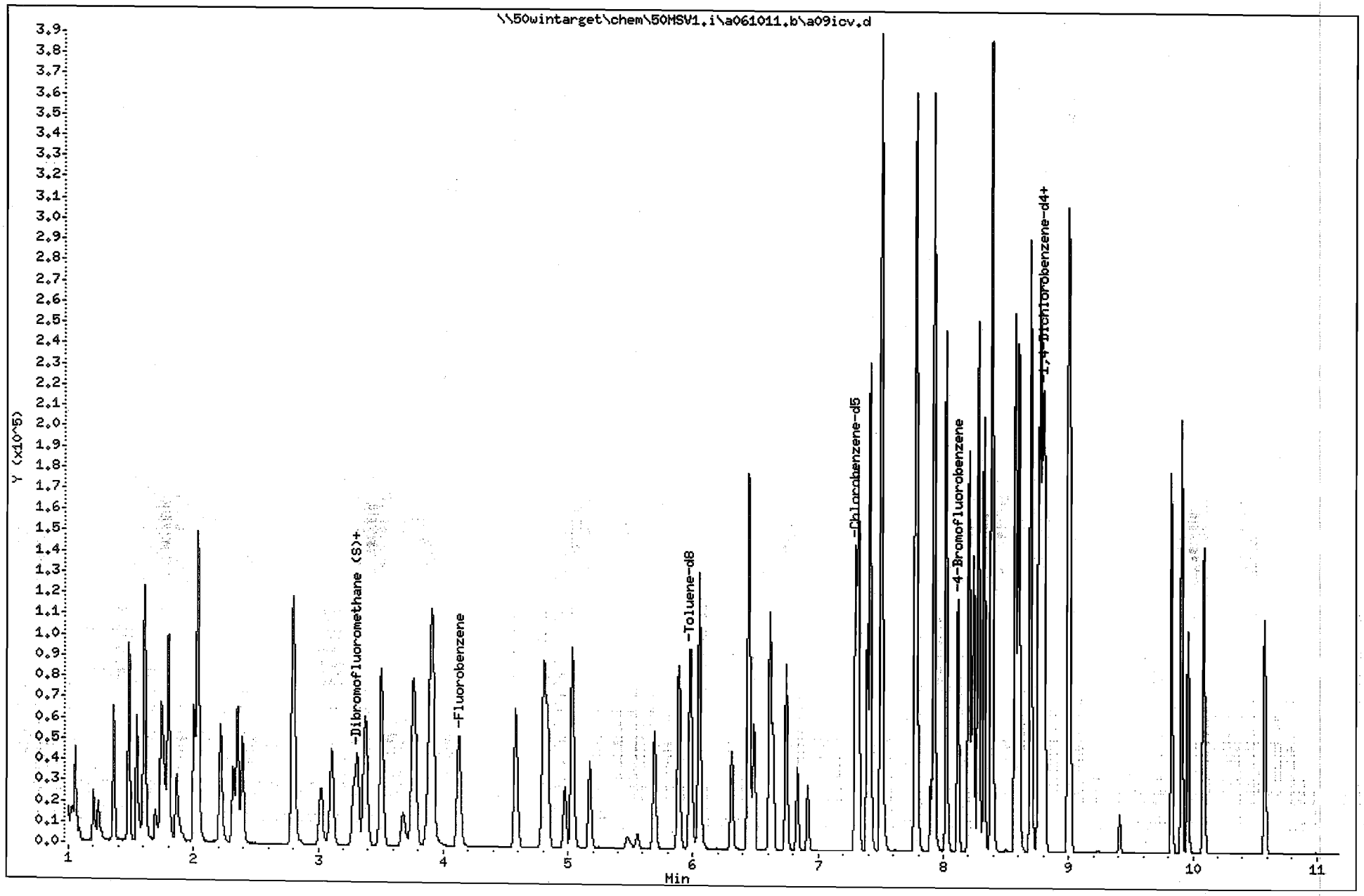
Client SDG: a061011.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	52.0	
95-50-1	1,2-Dichlorobenzene	49.5	
120-82-1	1,2,4-Trichlorobenzene	47.9	
87-61-6	1,2,3-Trichlorobenzene	52.6	
96-12-8	1,2-Dibromo-3-chloropropane	55.4	
87-68-3	Hexachlorobutadiene	52.2	
91-20-3	Naphthalene	51.2	
	2,methyl-naphthalene	60.8	
1868-53-7	Dibromofluoromethane (S)	52.9	
2037-26-5	Toluene-d8	47.4	
460-00-4	4-Bromofluorobenzene	47.0	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\a09icv.d
Date : 10-JUN-2011 18:20
Client ID: icv
Sample Info: icv 34D-379
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Report Date : 11-Jun-2011 15:11 Page 1

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Several cmpds 300ppb point dropped. RSW 6/11/11

Calibration File Names:
Level 1: \\50wintarget\chem\50MSV1.i\b061011.b\b01.d
Level 2: \\50wintarget\chem\50MSV1.i\b061011.b\b02.d
Level 3: \\50wintarget\chem\50MSV1.i\b061011.b\b03.d
Level 4: \\50wintarget\chem\50MSV1.i\b061011.b\b04.d
Level 5: \\50wintarget\chem\50MSV1.i\b061011.b\b05.d
Level 6: \\50wintarget\chem\50MSV1.i\b061011.b\b06.d
Level 7: \\50wintarget\chem\50MSV1.i\b061011.b\b07.d
Level 8: \\50wintarget\chem\50MSV1.i\b061011.b\b08.d

All CCCs <30% RSD. RSW 6/11/11

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Dichlorodifluoromethane	+++++	+++++	0.46871	0.47910	0.52302	0.46427					
	0.63401	0.51447					AVRG		0.51393		12.37579
2 Chloromethane	+++++	+++++	0.43282	0.42871	0.42344	0.38817					
SPLL	0.56195	0.52016					AVRG		0.45921		14.51834
3 Vinyl Chloride	+++++	698	2019	4914	9536	22190					
CCL	76476	+++++					LINR	0.08288	0.47390		0.99295

AVRG %RSD 19.80

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
4 Bromomethane	+++++	212	656	1913	4516	11726					
	43251	+++++					LINR	0.12189	0.27128		0.99103
5 Chloroethane	+++++	323	738	2125	5002	10487					
	33686	+++++					LINR	0.06418	0.20809		0.99564
6 Trichlorofluoromethane	+++++	0.46695	0.49051	0.45996	0.51071	0.45863					
	0.58330	0.46026					AVRG		0.49005		9.29023
28 1,2-dichlorotrifluoroethane	151	998	3079	5318	10983	26112					
	60191	+++++					LINR	-0.02737	0.36861		0.99846
7 Diethyl ether	+++++	112	833	1362	2962	6811					
	16928	33678					LINR	-0.11160	0.08731		0.98922
8 Acrolein	225	656	1802	3465	8063	16481					
	53669	+++++					LINR	0.92909	0.01644		0.99478
9 1,1-Dichloroethene	+++++	592	2180	4033	7500	19679					
	45196	+++++					LINR	-0.02655	0.27650		0.99861

CCC

AVRG % RSD 17.25

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
10 1,1,2trichlorotrifluoroethane	+++++	+++++	0.37765	0.32989	0.32711	0.34317					
	0.31085	0.23811					AVRG		0.32113		14.46705
11 Acetone	702	831	1935	2674	4839	11205					
	24185	+++++					LINR	-0.45280	0.02913		0.99716
12 Iodomethane	+++++	+++++	1629	4443	11176	36985					
	88009	+++++					LINR	0.10491	0.27655		0.99798
142 Acetonitrile	725	1832	5961	10083	19103	50369					
	111963	+++++					LINR	-0.59686	0.03436		0.99760
13 Carbon Disulfide	1993	4788	15511	26961	50530	124187					
	265233	+++++					LINR	-0.10364	0.81259		0.99589
138 Methyl Acetate	+++++	+++++	882	1163	2306	5595					
	13867	26922					LINR	-0.17699	0.06930		0.98619
14 allyl chloride	725	1833	5962	10083	19103	50369					
	111971	+++++					LINR	-0.05967	0.34367		0.99760

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
15 Methylene Chloride	417	737	2351	3849	6919	16899						
	40171	++++++					LINR	-0.03194	0.24446		0.99932	
16 Acrylonitrile	688	1955	6792	10713	20451	49315						
	124260	++++++					LINR	-0.24157	0.03787		0.99969	
27 Propionitrile	++++++	++++++	++++++	++++++	++++++	0.01415						
	0.02029	++++++					AVRG		0.01722		25.23529	<- NTZ
17 tert-Butyl Alcohol	++++++	++++++	++++++	0.00406	0.01389	0.01292						
	0.01460	0.01195					AVRG		0.01149		37.17585	<- NTZ
18 1,2-Dichloroethene (trans)	101	599	2277	4081	7846	19028						
	44820	++++++					LINR	-0.02131	0.27434		0.99901	
19 Methyl-tert-butyl ether	1163	2584	9389	14828	27119	67287						
	159543	++++++					LINR	-0.05502	0.48643		0.99917	
20 n-Hexane	107	979	3823	5654	10535	31223						
	68009	++++++					LINR	-0.02000	0.41995		0.99627	

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
146 Chloroprene	325	1220	4313	7703	13962	37223					
	87539	+++++					LINR	-0.01359	0.53690		0.99907
21 1,1-Dichloroethane SPCC	498	1477	5433	8959	12942	44039					RF 0.011
	108978	+++++					LINR	0.01236	0.67047		0.99833
23 Vinyl Acetate	1644	3844	13295	21400	37482	107435					
	261938	+++++					LINR	-0.00795	0.40150		0.99929
25 1,2-Dichloroethene (cis)	203	822	3007	5344	9930	24421					
	62559	+++++					LINR	-0.00149	0.38225		0.99981
24 2,2-Dichloropropane	+++++	0.37691	0.59113	0.47395	0.49620	0.49841					
	0.50762	0.40604					AVRG		0.47861		14.73337
26 2-Butanone	+++++	969	3172	5040	9319	22952					
	56764	+++++					LINR	-0.11429	0.06900		0.99972
143 Methacrylonitrile	+++++	+++++	0.02328	0.01686	0.02110	0.02080					
	0.02109	0.01660					AVRG		0.01996		13.28386

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
29 Bromochloromethane	+++++	344	1780	2965	5745	14277						
	29393	+++++					LINR	-0.07097	0.17962		0.99369	
30 Tetrahydrofuran	0.13673	0.07937	0.10950	0.06946	0.06339	0.04890						
	0.05187	0.03569					AVRG		0.07436		45.30218	<- NTC
31 Chloroform CCC	464	1566	5354	8921	17718	43881						AVRg %RSD 27.90
	108462	+++++					LINR	-0.00783	0.66340		0.99971	
33 1,1,1-Trichloroethane	+++++	+++++	0.65368	0.54754	0.54840	0.57139						
	0.56982	0.46440					AVRG		0.55920		10.85608	
139 Cyclohexane	103	1168	4470	8388	16736	38597						
	95235	+++++					LINR	-0.01199	0.58235		0.99954	
37 Isobutyl alcohol	+++++	+++++	0.27250	0.21367	0.22827	0.26172						
	0.23180	0.17830					AVRG		0.23104		14.67967	
36 1,1-Dichloropropene	101	1028	4266	7388	14930	35720						
	86327	+++++					LINR	-0.01317	0.52859		0.99936	

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
35 Carbon Tetrachloride	+++++	+++++	0.36994	0.33453	0.38371	0.42483					
	0.42765	0.34357					AVRG		0.38070		10.36675
144 isopropyl acetate	+++++	+++++	+++++	+++++	+++++	0.02412					
	0.03657	0.02883					AVRG		0.02984		21.05503
147 2,2,4-Trimethylpentane	983	3102	10381	17955	35231	98852					
	220363	+++++					LINR	-0.01553	1.35913		0.99751
38 Benzene	1528	3351	12258	20010	38115	99337					
	233386	+++++					LINR	-0.01764	1.42943		0.99905
39 1,2-Dichloroethane	+++++	472	2891	4410	9024	23534					
	56810	+++++					LINR	-0.00802	0.34814		0.99929
41 Trichloroethene	+++++	+++++	0.52354	0.40913	0.42383	0.45596					
	0.42744	0.34034					AVRG		0.43004		13.92983
140 Methylcyclohexane	200	1048	4170	7683	14870	36118					
	88499	+++++					LINR	-0.00941	0.54172		0.99963

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
42 1,2-Dichloropropane CCC	+++++	640	2701	4674	9672	23085					AVRG % RSD 20.72
	56801	+++++					LINR	-0.01384	0.34684		0.99966
43 Dibromomethane	+++++	+++++	0.21113	0.16647	0.16662	0.18353					
	0.17892	0.14183					AVRG		0.17475		13.13970
141 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 NC
44 Methyl methacrylate	+++++	+++++	0.19151	0.13805	0.15057	0.16451					
	0.15271	0.12923					AVRG		0.15443		14.18043
45 Bromodichloromethane	+++++	+++++	0.52220	0.40899	0.41970	0.47504					
	0.47879	0.39002					AVRG		0.44912		11.29280
46 2-Chloroethyl vinyl ether	+++++	+++++	1077	2016	4066	8344					
	19617	39567					LINR	-0.38321	0.05701		0.99584
47 cis-1,3-Dichloropropene	299	1066	4000	6880	14424	37208					
	97611	184378					LINR	-0.06756	0.55510		0.99016

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
48 4-Methyl-2-Pentanone	1279	3587	9879	14353	27128	63474					
	163888	+++++					LINR	-0.14254	0.21649		0.99927
50 Toluene CCC	2082	4908	13718	22732	43420	115339					
	268711	+++++					LINR	-0.02908	1.79263		0.99846
51 trans-1,3-Dichloropropene	+++++	648	3045	5210	10309	28758					
	78672	151287					LINR	-0.05343	0.45362		0.99152
52 Ethyl Methacrylate	+++++	778	3046	4482	9192	23972					
	62447	118101					LINR	-0.09447	0.35326		0.98993
53 1,1,2-Trichloroethane	+++++	423	2019	3286	6384	16463					
	40379	+++++					LINR	-0.01994	0.26874		0.99928
54 Tetrachloroethene	536	1316	4181	7673	14840	37723					
	93885	175489					LINR	-0.09633	0.52770		0.98882
55 1,3-Dichloropropane	348	1093	3981	6167	12294	31029					
	72777	135946					LINR	-0.12031	0.40765		0.98804

Avg % RSD 18.40

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
56 2-Hexanone	885	2736	7213	11281	20063	49739					
	118696	+++++					LINR	-0.21594	0.15715		0.99886
57 Dibromochloromethane	+++++	571	2061	3341	6816	18913					
	50567	100923					LINR	-0.04760	0.29981		0.99475
58 1,2-Dibromoethane	+++++	555	2179	3548	6699	17708					
	43598	83332					LINR	-0.11237	0.24786		0.99082
60 Chlorobenzene SPU	1177	3192	9757	15954	29788	74074					
	181970	+++++					LINR	-0.02629	1.20855		0.99935
61 1,1,1,2-Tetrachloroethane	+++++	713	2416	4033	8075	22994					
	56125	112635					LINR	-0.07383	0.33297		0.99478
62 Ethylbenzene CU	549	1620	5349	9422	17071	40669					
	98437	+++++					LINR	-0.03539	0.65305		0.99907
63 m&p-Xylene	1888	4169	12562	21659	41590	100953					
	221572	+++++					LINR	-0.11434	0.73803		0.99629

RF 1.349

Avg % RSD 26.92

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
65 o-Xylene	780	2189	6751	10720	20763	50367					
	127573	++++++					LINR	-0.01992	0.84679		0.99953
66 Styrene	1345	3472	10585	17115	33079	81675					
	192735	++++++					LINR	-0.03602	1.28142		0.99868
67 Bromoform	++++++	++++++	0.45345	0.33266	0.32964	0.42451					
SPL	0.47355	0.42159					AVRG		0.40590		15.03091
68 Isopropylbenzene	2471	6070	18279	30979	58170	145199					
	331048	++++++					LINR	-0.04434	2.20350		0.99782
69 trans-1,4-Dichloro-2-butene	++++++	++++++	630	883	1645	4788					
	12430	23843					LINR	-0.10565	0.07080		0.99068
145 n-amyl acetate	++++++	++++++	++++++	++++++	++++++	++++++					
	++++++	++++++					AVRG		0.000e+000		0.000e+000
72 1,1,2,2-Tetrachloroethane	398	1253	3487	5373	9535	23362					
SPL	55558	105405					LINR	-0.11593	0.67866		0.98976

NTL

RF 0389

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
71 Bromobenzene	817	2564	8113	12538	23746	58408					
	139587	267656					LINR	-0.11565	0.79600		0.99127
73 1,2,3-Trichloropropane	211	1219	3194	4850	8956	23110					
	58109	113122					LINR	-0.07537	0.72743		0.99254
74 n-Propylbenzene	3077	8008	22259	36666	70271	168985					
	402429	+++++					LINR	-0.02478	5.80368		0.99916
75 2-Chlorotoluene	1745	4641	13335	20738	38431	98364					
	232086	+++++					LINR	-0.02236	3.35208		0.99879
76 4-Chlorotoluene	478	1434	4151	6345	12314	31858					
	76497	+++++					LINR	-0.01271	1.10667		0.99904
77 1,3,5-Trimethylbenzene	1920	4921	14549	24895	44343	110420					
	255834	+++++					LINR	-0.03045	3.69301		0.99852
78 tert-Butylbenzene	1834	5646	15738	26440	48854	123740					
	290724	+++++					LINR	-0.02192	4.20252		0.99881

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,2,4-Trimethylbenzene	1923	5596	14793	24171	44452	108528					
	256740	+++++					LINR	-0.02836	3.69981		0.99900
80 sec-Butylbenzene	2673	6897	20538	34353	66293	156265					
	359038	668631					LINR	-0.12909	4.32609		0.98705
81 1,3-Dichlorobenzene	1286	3419	9048	13732	25004	63223					
	149725	277001					LINR	-0.12036	1.79696		0.98673
83 p-Isopropyltoluene	2074	5433	15162	26425	48917	117889					
	274469	+++++					LINR	-0.03090	3.96001		0.99873
84 1,4-Dichlorobenzene	1113	3512	8647	12540	23624	58020					
	141113	265509					LINR	-0.10997	1.71493		0.98907
86 n-Butylbenzene	2017	5784	16407	26323	50825	132406					
	309800	+++++					LINR	-0.01705	4.48788		0.99861
85 1,2-Dichlorobenzene	1059	3290	8241	11790	22068	54575					
	131087	+++++					LINR	-0.02745	1.88591		0.99904

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
88 1,2,4-Trichlorobenzene	890	2729	6343	9566	16883	46453					
	118703	223829					LINR	-0.07902	1.45189		0.98941
91 1,2,3-Trichlorobenzene	611	2322	5336	8176	14005	36899					
	94787	177787					LINR	-0.08756	1.15298		0.98900
87 1,2-Dibromo-3-chloropropane	+++++	+++++	223	413	948	2961					
	8126	17250					LINR	0.02526	0.11040		0.99745
89 Hexachlorobutadiene	470	1764	4299	7535	14086	35576					
	84283	163097					LINR	-0.09462	1.04846		0.99153
90 Naphthalene	1529	4323	10522	14701	25546	64909					
	161582	307897					LINR	-0.10226	1.98208		0.99065
92 2,methyl-naphthalene	665	2101	5546	8325	14950	37281					
	99264	195535					LINR	-0.06292	1.25431		0.99385
$ 32 Dibromofluoromethane (S)	0.21218	0.22018	0.21014	0.23140	0.22800	0.23758					
	0.23071	0.22729					AVRG		0.22468		4.30162

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 49 Toluene-d8	1.18828	1.17269	1.18603	1.12252	1.19217	1.11550					
	1.11759	1.15218					AVRG		1.15587		2.88451
$ 70 4-Bromofluorobenzene	0.50162	0.47392	0.48714	0.46218	0.48138	0.47620					
	0.45230	0.47133					AVRG		0.47576		3.16573

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUN-2011 13:53
End Cal Date : 10-JUN-2011 18:03
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Last Edit : 11-Jun-2011 15:02 rwrede

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b00bfb.d
Lab Smp Id: bfb050 34D-354 Client Smp ID: bfb050
Inj Date : 10-JUN-2011 13:15 MS Autotune Date: 21-AUG-1992 10:13
Operator : rsw Inst ID: 50MSV1.i
Smp Info : bfb 34D-354
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-bfb390.m
Meth Date : 31-May-2011 14:51 rwrede Quant Type: ISTD
Cal Date : 25-MAY-2001 16:00 Cal File: 0201002.D
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.108	8.417	(0.000)	95	29628			100.00- 100.00	100.00
8.108	8.417	(0.000)	50	4871			15.00- 40.00	16.44
8.108	8.417	(0.000)	75	13650			30.00- 60.00	46.07
8.108	8.417	(0.000)	96	2092			5.00- 9.00	7.06
8.108	8.417	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.108	8.417	(0.000)	174	26868			50.00- 100.00	90.68
8.108	8.417	(0.000)	175	1931			5.00- 9.00	7.19
8.108	8.417	(0.000)	176	27012			95.00- 101.00	100.54
8.108	8.417	(0.000)	177	1676			5.00- 9.00	6.20
8.108	8.417	(0.000)	95	29628			100.00- 100.00	100.00

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b00bfb.d

Date : 10-JUN-2011 13:15

Client ID: bfb050

Instrument: 50MSV1.i

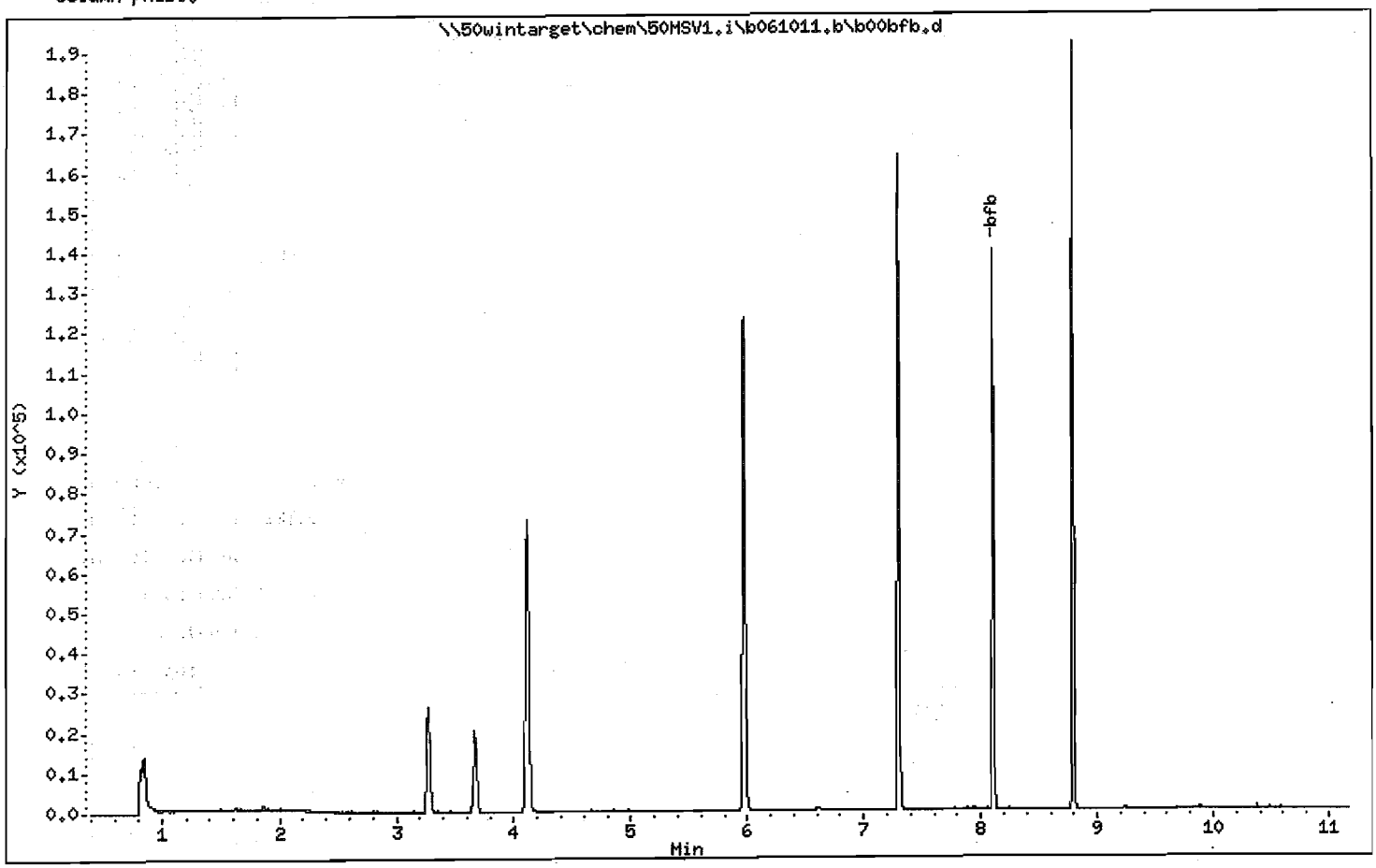
Sample Info: bfb 34D-354

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b00bfb.d

Date : 10-JUN-2011 13:15

Client ID: bfb050

Instrument: 50MSV1.i

Sample Info: bfb 34D-354

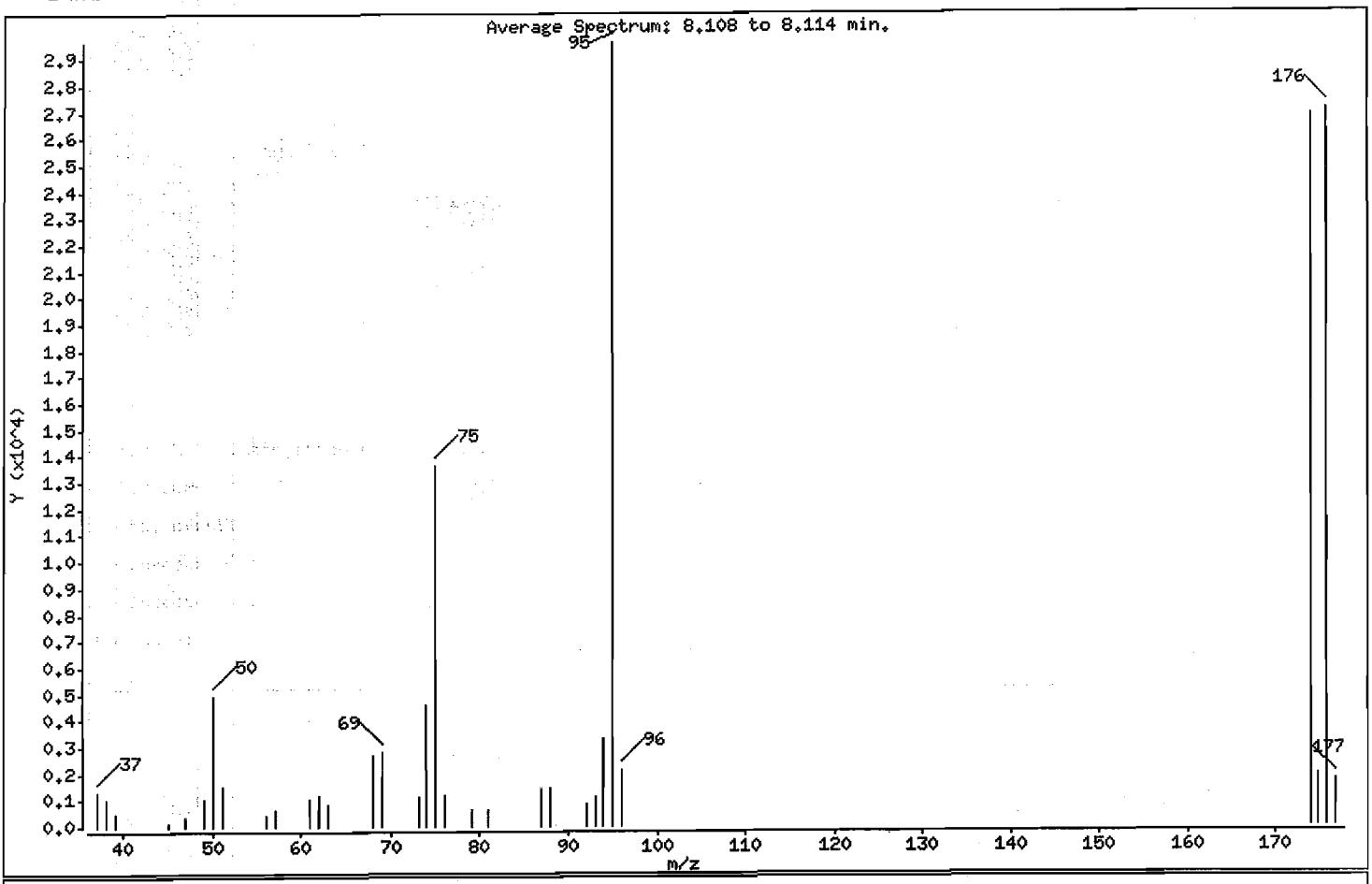
Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.44
75	30.00 - 60.00% of mass 95	46.07
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	90.68
175	5.00 - 9.00% of mass 174	6.52 (7.19)
176	95.00 - 101.00% of mass 174	91.17 (100.54)
177	5.00 - 9.00% of mass 176	5.66 (6.20)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b00bfb.d

Date : 10-JUN-2011 13:15

Client ID: bfb050

Instrument: 50MSV1.i

Sample Info: bfb 34D-354

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00

Data File: b00bfb.d
Spectrum: Average Spectrum: 8.108 to 8.114 min.
Location of Maximum: 95.00
Number of points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1283	57.00	645	76.00	1143	96.00	2092
38.00	1040	61.00	1052	79.00	596	174.00	26864
39.00	447	62.00	1181	81.00	610	175.00	1931
45.00	164	63.00	784	87.00	1345	176.00	27008
47.00	369	68.00	2669	88.00	1440	177.00	1676
49.00	1009	69.00	2780	92.00	797		
50.00	4871	73.00	1098	93.00	1097		
51.00	1488	74.00	4541	94.00	3269		
56.00	399	75.00	13650	95.00	29624		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b01.d
Lab Smp Id: 1ppb 34D-407/394 Client Smp ID: 1ppb
Inj Date : 10-JUN-2011 13:53
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 1ppb 34D-407/394
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i Quant Type: ISTD
Cal Date : 02-JUN-2011 20:34 Cal File: b08.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.916	0.917	(0.223)	251	1.00000	0.337 (QM)
3 Vinyl Chloride	62	1.046	1.043	(0.254)	125	1.00000	4.32 (QM)
6 Trichlorofluoromethane	101	1.350	1.352	(0.328)	462	1.00000	0.651
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	151	1.00000	(QM)
8 Acrolein	56	1.538	1.540	(0.374)	225	20.0000	55.9 (M)
10 1,1,2trichlorotrifluoroethane	101	1.590	1.597	(0.386)	100	1.00000	0.215 (QM)
11 Acetone	43	1.611	1.613	(0.391)	702	5.00000	(M)
142 Acetonitrile	41	1.784	1.786	(0.433)	725	20.0000	(QM)
13 Carbon Disulfide	76	1.732	1.733	(0.421)	1993	2.00000	(M)
14 allyl chloride	41	1.784	1.786	(0.433)	725	2.00000	(QM)
15 Methylene Chloride	84	1.857	1.854	(0.451)	417	1.00000	(TQM)
16 Acrylonitrile	53	1.993	1.995	(0.484)	688	20.0000	0.466 (M)
18 1,2-Dichloroethene (trans)	96	2.024	2.026	(0.492)	101	1.00000	(QM)
19 Methyl-tert-butyl ether	73	2.019	2.026	(0.491)	1163	2.00000	(M)
20 n-Hexane	57	2.208	2.209	(0.536)	107	1.00000	(M)
146 Chloroprene	53	2.380	2.382	(0.578)	325	1.00000	(M)
21 1,1-Dichloroethane	63	2.307	2.309	(0.560)	498	1.00000	1.13 (QM)
23 Vinyl Acetate	43	2.344	2.340	(0.569)	1644	4.00000	2.43 (M)
25 1,2-Dichloroethene (cis)	96	2.793	2.790	(0.679)	203	1.00000	0.292 (QM)
24 2,2-Dichloropropane	77	2.788	2.790	(0.677)	204	1.00000	0.294 (M)
29 Bromochloromethane	49	2.715	3.015	(0.660)	0	1.00000	(TQM)
30 Tetrahydrofuran	42	3.081	3.083	(0.748)	198	1.00000	1.84 (QM)
31 Chloroform	83	3.097	3.098	(0.752)	464	1.00000	0.0915 (QM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.269	3.271	(0.794)	15363	50.0000	47.2
33 1,1,1-Trichloroethane	97	3.301	3.297	(0.802)	196	1.00000	0.242 (QM)
139 Cyclohexane	56	3.363	3.370	(0.817)	103	1.00000	(QM)
36 1,1-Dichloropropene	75	3.494	3.496	(0.849)	101	1.00000	(QM)
147 2,2,4-Trimethylpentane	57	3.876	3.883	(0.942)	983	1.00000	(QM)
38 Benzene	78	3.750	3.752	(0.911)	1528	1.00000	(M)
* 40 Fluorobenzene	96	4.117	4.118	(1.000)	72407	50.0000	
140 Methylcyclohexane	55	4.796	4.798	(1.165)	200	1.00000	(QM)
47 cis-1,3-Dichloropropene	75	5.691	5.687	(0.780)	299	1.00000	(QM)
48 4-Methyl-2-Pentanone	43	5.879	5.876	(0.806)	1279	5.00000	(QM)
$ 49 Toluene-d8	98	5.973	5.975	(0.819)	68880	50.0000	51.4
50 Toluene	91	6.046	6.043	(0.829)	2082	1.00000	
54 Tetrachloroethene	166	6.611	6.608	(0.906)	536	1.00000	(QM)
55 1,3-Dichloropropane	76	6.632	6.634	(0.909)	348	1.00000	(QM)
56 2-Hexanone	43	6.742	6.739	(0.924)	885	5.00000	(M)
* 59 Chlorobenzene-d5	117	7.296	7.298	(1.000)	57966	50.0000	
60 Chlorobenzene	112	7.317	7.319	(1.003)	1177	1.00000	
62 Ethylbenzene	106	7.412	7.413	(1.016)	549	1.00000	(Q)
63 m&p-Xylene	106	7.500	7.502	(1.028)	1888	2.00000	(M)
65 o-Xylene	106	7.772	7.774	(1.065)	780	1.00000	
66 Styrene	104	7.788	7.785	(1.067)	1345	1.00000	
68 Isopropylbenzene	105	8.018	8.020	(1.099)	2471	1.00000	
$ 70 4-Bromofluorobenzene	95	8.112	8.114	(1.112)	29077	50.0000	52.7
72 1,1,2,2-Tetrachloroethane	83	8.206	8.208	(0.933)	398	1.00000	(QM)
71 Bromobenzene	77	8.201	8.198	(1.124)	817	1.00000	
73 1,2,3-Trichloropropane	75	8.233	8.229	(0.936)	211	1.00000	(QM)
74 n-Propylbenzene	91	8.274	8.276	(0.941)	3077	1.00000	
75 2-Chlorotoluene	91	8.322	8.323	(0.946)	1745	1.00000	
76 4-Chlorotoluene	126	8.322	8.323	(0.946)	478	1.00000	0.0559 (Q)
77 1,3,5-Trimethylbenzene	105	8.379	8.381	(0.953)	1920	1.00000	
78 tert-Butylbenzene	119	8.573	8.569	(0.975)	1834	1.00000	
79 1,2,4-Trimethylbenzene	105	8.599	8.595	(0.978)	1923	1.00000	
80 sec-Butylbenzene	105	8.693	8.695	(0.989)	2673	1.00000	
81 1,3-Dichlorobenzene	146	8.756	8.757	(0.996)	1286	1.00000	
83 p-Isopropyltoluene	119	8.777	8.773	(0.998)	2074	1.00000	
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.794	(1.000)	31237	50.0000	
84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	1113	1.00000	
86 n-Butylbenzene	91	8.996	8.993	(1.023)	2017	1.00000	
85 1,2-Dichlorobenzene	146	9.007	9.008	(1.024)	1059	1.00000	
88 1,2,4-Trichlorobenzene	180	9.828	9.830	(1.118)	890	1.00000	(M)
91 1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	611	1.00000	(M)
89 Hexachlorobutadiene	225	9.912	9.908	(1.127)	470	1.00000	
90 Naphthalene	128	9.964	9.960	(1.133)	1529	1.00000	(M)
92 2,methyl-naphthalene	142	10.586	10.583	(1.204)	665	1.00000	(QM)

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b01.d
Lab Smp Id: 1ppb 34D-407/394
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 1ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	72407	12.69
59 Chlorobenzene-d5	57810	28905	115620	57966	0.27
82 1,4-Dichlorobenze	26911	13456	53822	31237	16.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.01
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.01

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb 34D-407/394
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.337	
75-01-4	Vinyl Chloride	4.32	
75-69-4	Trichlorofluoromethane	0.651	
354-23-4	1,2-dichlorotrifluoroethane	0.000	
107-02-8	Acrolein	55.9	
76-13-1	1,1,2trichlorotrifluoroethan	0.215	
67-64-1	Acetone	0.000	
75-05-8	Acetonitrile	0.000	
75-15-0	Carbon Disulfide	0.000	
107-05-1	allyl chloride	0.000	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	0.466	
156-60-5	1,2-Dichloroethene (trans)	0.000	
1634-04-4	Methyl-tert-butyl ether	0.000	
	n-Hexane	0.000	
126-99-8	Chloroprene	0.000	
75-34-3	1,1-Dichloroethane	1.13	
108-05-4	Vinyl Acetate	2.43	
156-59-2	1,2-Dichloroethene (cis)	0.292	
594-20-7	2,2-Dichloropropane	0.294	
74-97-5	Bromochloromethane	0.000	
	Tetrahydrofuran	1.84	
67-66-3	Chloroform	0.0915	
71-55-6	1,1,1-Trichloroethane	0.242	
110-82-7	Cyclohexane	0.000	
563-58-6	1,1-Dichloropropene	0.000	
540-84-1	2,2,4-Trimethylpentane	0.000	
71-43-2	Benzene	0.000	
108-87-2	Methylcyclohexane	0.000	
10061-01-5	cis-1,3-Dichloropropene	0.000	
108-10-1	4-Methyl-2-Pentanone	0.000	
108-88-3	Toluene	0.000	
127-18-4	Tetrachloroethene	0.000	
142-28-9	1,3-Dichloropropane	0.000	
591-78-6	2-Hexanone	0.000	
108-90-7	Chlorobenzene	0.000	
100-41-4	Ethylbenzene	0.000	
7816-60-0	m&p-Xylene	0.000	
95-47-6	o-Xylene	0.000	
100-42-5	Styrene	0.000	
98-82-8	Isopropylbenzene	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

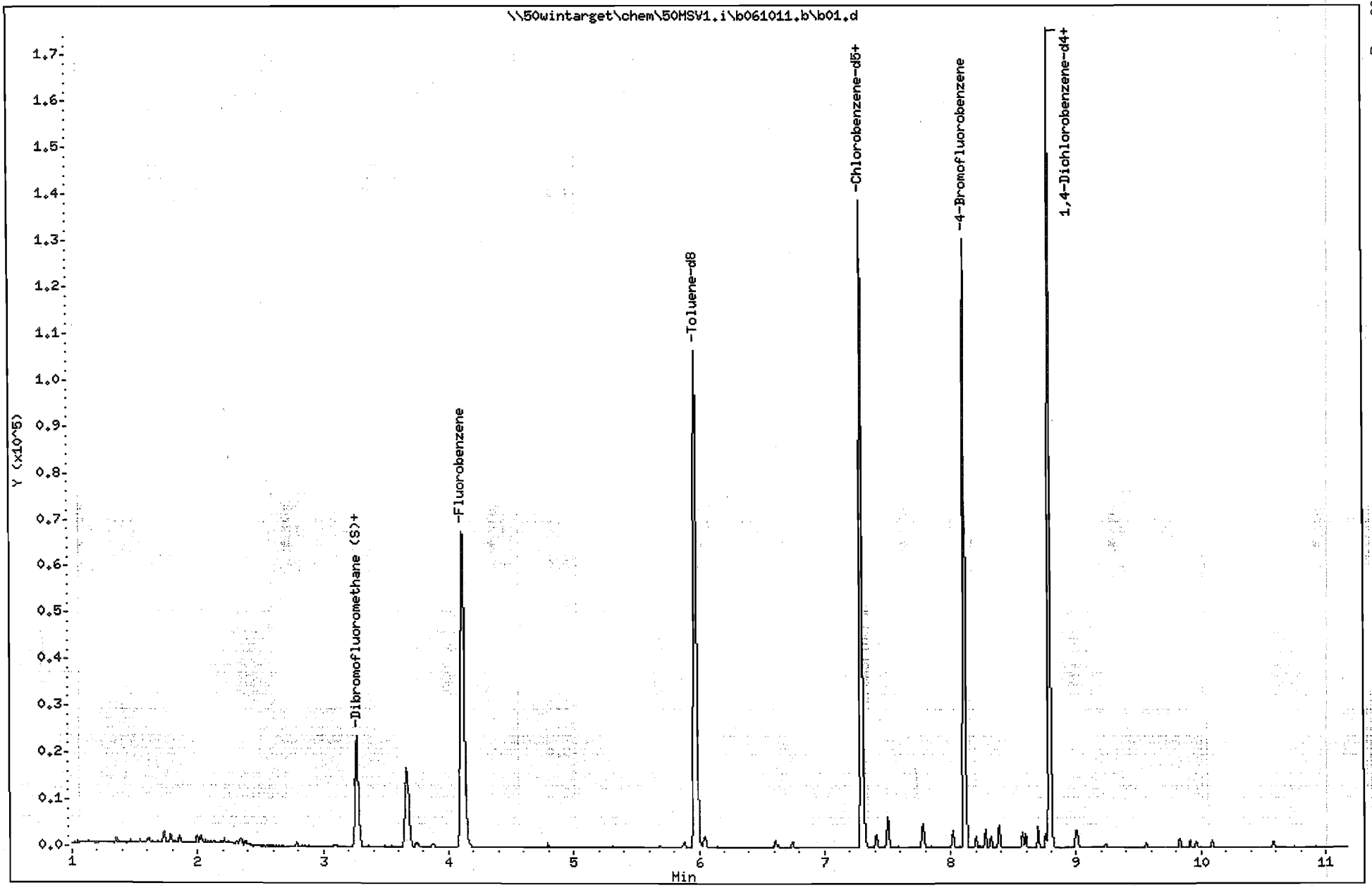
Client Name:
Lab Smp Id: 1ppb 34D-407/394
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-86-1	Bromobenzene	0.000	
96-18-4	1,2,3-Trichloropropane	0.000	
103-65-1	n-Propylbenzene	0.000	
95-49-8	2-Chlorotoluene	0.000	
106-43-4	4-Chlorotoluene	0.0559	
108-67-8	1,3,5-Trimethylbenzene	0.000	
98-06-6	tert-Butylbenzene	0.000	
95-63-6	1,2,4-Trimethylbenzene	0.000	
135-98-8	sec-Butylbenzene	0.000	
541-73-1	1,3-Dichlorobenzene	0.000	
99-87-6	p-Isopropyltoluene	0.000	
106-46-7	1,4-Dichlorobenzene	0.000	
104-51-8	n-Butylbenzene	0.000	
95-50-1	1,2-Dichlorobenzene	0.000	
120-82-1	1,2,4-Trichlorobenzene	0.000	
87-61-6	1,2,3-Trichlorobenzene	0.000	
87-68-3	Hexachlorobutadiene	0.000	
91-20-3	Naphthalene	0.000	
	2,methyl-naphthalene	0.000	
1868-53-7	Dibromofluoromethane (S)	47.2	
2037-26-5	Toluene-d8	51.4	
460-00-4	4-Bromofluorobenzene	52.7	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b01.d
Date : 10-JUN-2011 13:53
Client ID: 1ppb
Sample Info: 1ppb 34D-407/394
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b01.d

Date : 10-JUN-2011 13:53

Client ID: 1ppb

Instrument: 50MSV1.i

Sample Info: 1ppb 34D-407/394

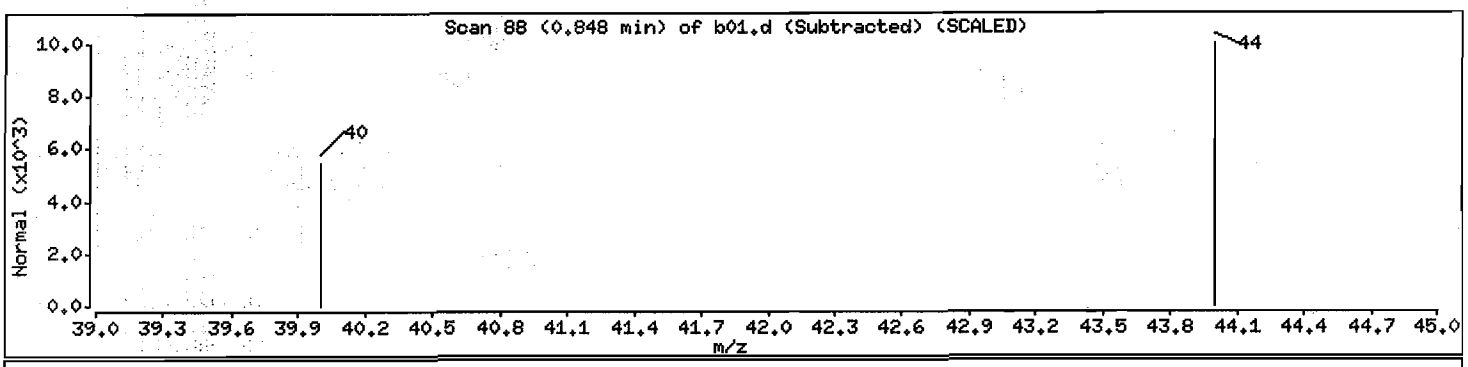
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b02.d
Lab Smp Id: 2ppb
Client Smp ID: 2ppb
Inj Date : 10-JUN-2011 14:29
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 2ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:34
Cal File: b08.d
Als bottle: 6
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.917	0.917	(0.223)	1041	2.00000	1.44(M)
2 Chloromethane	50	0.996	1.017	(0.242)	922	2.00000	1.43(QM)
3 Vinyl Chloride	62	1.048	1.043	(0.255)	698	2.00000	5.19(TM)
4 Bromomethane	94	1.189	1.189	(0.289)	212	2.00000	6.65(QM)
5 Chloroethane	64	1.236	1.231	(0.300)	323	2.00000	4.31(QM)
6 Trichlorofluoromethane	101	1.351	1.352	(0.328)	1312	2.00000	1.90(M)
28 1,2-dichlorotrifluoroethane	67	1.472	1.472	(0.357)	998	2.00000	0.558(Q)
7 Diethyl ether	74	1.477	1.477	(0.359)	112	2.00000	(QM)
8 Acrolein	56	1.540	1.540	(0.374)	656	40.0000	74.8(Q)
9 1,1-Dichloroethene	96	1.602	1.603	(0.389)	592	2.00000	0.197
10 1,1,2trichlorotrifluoroethane	101	1.597	1.597	(0.388)	641	2.00000	1.42(Q)
11 Acetone	43	1.618	1.613	(0.393)	831	10.0000	(M)
142 Acetonitrile	41	1.785	1.786	(0.434)	1832	40.0000	8.10(M)
13 Carbon Disulfide	76	1.728	1.733	(0.420)	4788	4.00000	(M)
14 allyl chloride	41	1.785	1.786	(0.434)	1833	4.00000	0.813(M)
15 Methylene Chloride	84	1.859	1.854	(0.451)	737	2.00000	0.549(TQ)
16 Acrylonitrile	53	1.995	1.995	(0.484)	1955	40.0000	24.7
18 1,2-Dichloroethene (trans)	96	2.031	2.026	(0.493)	599	2.00000	0.488(Q)
19 Methyl-tert-butyl ether	73	2.026	2.026	(0.492)	2584	4.00000	1.03(M)
20 n-Hexane	57	2.209	2.209	(0.536)	979	2.00000	0.660(M)
146 Chloroprene	53	2.382	2.382	(0.578)	1220	2.00000	0.938(M)
21 1,1-Dichloroethane	63	2.314	2.309	(0.562)	1477	2.00000	2.19(M)
23 Vinyl Acetate	43	2.345	2.340	(0.569)	3844	8.00000	6.42(TM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	25 1,2-Dichloroethene (cis)	96	2.790	2.790	(0.677)	822	2.00000	1.46 (Q)
	24 2,2-Dichloropropane	77	2.795	2.790	(0.679)	1059	2.00000	1.58 (QM)
	26 2-Butanone	43	2.805	2.800	(0.681)	969	10.0000	4.28 (M)
	29 Bromochloromethane	49	3.014	3.015	(0.732)	344	2.00000	(TM)
	30 Tetrahydrofuran	42	3.077	3.083	(0.747)	223	2.00000	2.13 (M)
	31 Chloroform	83	3.103	3.098	(0.754)	1566	2.00000	1.29 (Q)
$	32 Dibromofluoromethane (S)	113	3.271	3.271	(0.794)	15466	50.0000	49.0
	33 1,1,1-Trichloroethane	97	3.302	3.297	(0.802)	991	2.00000	1.26 (QM)
	139 Cyclohexane	56	3.370	3.370	(0.818)	1168	2.00000	0.828 (Q)
	36 1,1-Dichloropropene	75	3.501	3.496	(0.850)	1028	2.00000	0.726 (M)
	35 Carbon Tetrachloride	117	3.490	3.496	(0.848)	209	2.00000	0.391 (QM)
	147 2,2,4-Trimethylpentane	57	3.888	3.883	(0.944)	3102	2.00000	0.848 (M)
	38 Benzene	78	3.752	3.752	(0.911)	3351	2.00000	0.787 (M)
	39 1,2-Dichloroethane	62	3.768	3.768	(0.915)	472	2.00000	0.564 (QM)
*	40 Fluorobenzene	96	4.118	4.118	(1.000)	70243	50.0000	
	41 Trichloroethene	95	4.578	4.579	(1.112)	863	2.00000	1.43
	140 Methylcyclohexane	55	4.793	4.798	(1.164)	1048	2.00000	0.906 (M)
	42 1,2-Dichloropropane	63	4.829	4.830	(1.173)	640	2.00000	0.622 (M)
	45 Bromodichloromethane	83	5.174	5.170	(1.257)	727	2.00000	1.15 (QM)
	47 cis-1,3-Dichloropropene	75	5.687	5.687	(0.779)	1066	2.00000	(M)
	48 4-Methyl-2-Pentanone	43	5.881	5.876	(0.806)	3587	10.0000	6.58 (M)
$	49 Toluene-d8	98	5.975	5.975	(0.819)	70890	50.0000	50.7
	50 Toluene	91	6.048	6.043	(0.829)	4908	2.00000	0.811
	51 trans-1,3-Dichloropropene	75	6.309	6.305	(0.865)	648	2.00000	(QM)
	52 Ethyl Methacrylate	69	6.440	6.441	(0.882)	778	2.00000	(M)
	53 1,1,2-Trichloroethane	83	6.482	6.482	(0.888)	423	2.00000	0.305 (Q)
	54 Tetrachloroethene	166	6.613	6.608	(0.906)	1316	2.00000	(Q)
	55 1,3-Dichloropropane	76	6.634	6.634	(0.909)	1093	2.00000	(M)
	56 2-Hexanone	43	6.744	6.739	(0.924)	2736	10.0000	3.60 (M)
	57 Dibromochloromethane	129	6.832	6.833	(0.936)	571	2.00000	
	58 1,2-Dibromoethane	107	6.916	6.911	(0.948)	555	2.00000	
*	59 Chlorobenzene-d5	117	7.298	7.298	(1.000)	60451	50.0000	
	60 Chlorobenzene	112	7.319	7.319	(1.003)	3192	2.00000	0.870
	61 1,1,1,2-Tetrachloroethane	131	7.387	7.387	(1.012)	713	2.00000	
	62 Ethylbenzene	106	7.413	7.413	(1.016)	1620	2.00000	0.282 (Q)
	63 m&p-Xylene	106	7.502	7.502	(1.028)	4169	4.00000	
	65 o-Xylene	106	7.774	7.774	(1.065)	2189	2.00000	1.14
	66 Styrene	104	7.784	7.785	(1.067)	3472	2.00000	0.440
	67 Bromoform	173	7.899	7.900	(0.898)	328	2.00000	1.31 (QM)
	68 Isopropylbenzene	105	8.020	8.020	(1.099)	6070	2.00000	0.0615
$	70 4-Bromofluorobenzene	95	8.114	8.114	(1.112)	28649	50.0000	49.8
	72 1,1,2,2-Tetrachloroethane	83	8.208	8.208	(0.933)	1253	2.00000	(QM)
	71 Bromobenzene	77	8.203	8.198	(1.124)	2564	2.00000	
	73 1,2,3-Trichloropropane	75	8.229	8.229	(0.936)	1219	2.00000	(M)
	74 n-Propylbenzene	91	8.276	8.276	(0.941)	8008	2.00000	0.996
	75 2-Chlorotoluene	91	8.323	8.323	(0.946)	4641	2.00000	1.12
	76 4-Chlorotoluene	126	8.323	8.323	(0.946)	1434	2.00000	1.46 (Q)
	77 1,3,5-Trimethylbenzene	105	8.381	8.381	(0.953)	4921	2.00000	0.636
	78 tert-Butylbenzene	119	8.574	8.569	(0.975)	5646	2.00000	1.08
	79 1,2,4-Trimethylbenzene	105	8.600	8.595	(0.978)	5596	2.00000	1.03
	80 sec-Butylbenzene	105	8.694	8.695	(0.989)	6897	2.00000	
	81 1,3-Dichlorobenzene	146	8.757	8.757	(0.996)	3419	2.00000	
	83 p-Isopropyltoluene	119	8.778	8.773	(0.998)	5433	2.00000	0.678
*	82 1,4-Dichlorobenzene-d4	152	8.794	8.794	(1.000)	30860	50.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
84 1,4-Dichlorobenzene	146	8.809	8.805	(1.002)	3512	2.00000	
86 n-Butylbenzene	91	8.998	8.993	(1.023)	5784	2.00000	1.24
85 1,2-Dichlorobenzene	146	9.008	9.008	(1.024)	3290	2.00000	1.45
88 1,2,4-Trichlorobenzene	180	9.829	9.830	(1.118)	2729	2.00000	
91 1,2,3-Trichlorobenzene	180	10.091	10.086	(1.147)	2322	2.00000	
89 Hexachlorobutadiene	225	9.913	9.908	(1.127)	1764	2.00000	
90 Naphthalene	128	9.965	9.960	(1.133)	4323	2.00000	
92 2,methyl-naphthalene	142	10.588	10.583	(1.204)	2101	2.00000	

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b02.d
Lab Smp Id: 2ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 2ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	70243	9.32
59 Chlorobenzene-d5	57810	28905	115620	60451	4.57
82 1,4-Dichlorobenze	26911	13456	53822	30860	14.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.05
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.02

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	1.44	
74-87-3	Chloromethane	1.43	
75-01-4	Vinyl Chloride	5.19	
74-83-9	Bromomethane	6.65	
75-00-3	Chloroethane	4.31	
75-69-4	Trichlorofluoromethane	1.90	
354-23-4	1,2-dichlorotrifluoroethane	0.558	
60-29-7	Diethyl ether	0.000	
107-02-8	Acrolein	74.8	
75-35-4	1,1-Dichloroethene	0.197	
76-13-1	1,1,2trichlorotrifluoroethan	1.42	
67-64-1	Acetone	0.000	
75-05-8	Acetonitrile	8.10	
75-15-0	Carbon Disulfide	0.000	
107-05-1	allyl chloride	0.813	
75-09-2	Methylene Chloride	0.549	
107-13-1	Acrylonitrile	24.7	
156-60-5	1,2-Dichloroethene (trans)	0.488	
1634-04-4	Methyl-tert-butyl ether	1.03	
----------	n-Hexane	0.660	
126-99-8	Chloroprene	0.938	
75-34-3	1,1-Dichloroethane	2.19	
108-05-4	Vinyl Acetate	6.42	
156-59-2	1,2-Dichloroethene (cis)	1.46	
594-20-7	2,2-Dichloropropane	1.58	
78-93-3	2-Butanone	4.28	
74-97-5	Bromochloromethane	0.000	
----------	Tetrahydrofuran	2.13	
67-66-3	Chloroform	1.29	
71-55-6	1,1,1-Trichloroethane	1.26	
110-82-7	Cyclohexane	0.828	
563-58-6	1,1-Dichloropropene	0.726	
56-23-5	Carbon Tetrachloride	0.391	
540-84-1	2,2,4-Trimethylpentane	0.848	
71-43-2	Benzene	0.787	
107-06-2	1,2-Dichloroethane	0.564	
79-01-6	Trichloroethene	1.43	
108-87-2	Methylcyclohexane	0.906	
78-87-5	1,2-Dichloropropane	0.622	
75-27-4	Bromodichloromethane	1.15	
10061-01-5	cis-1,3-Dichloropropene	0.000	
108-10-1	4-Methyl-2-Pentanone	6.58	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

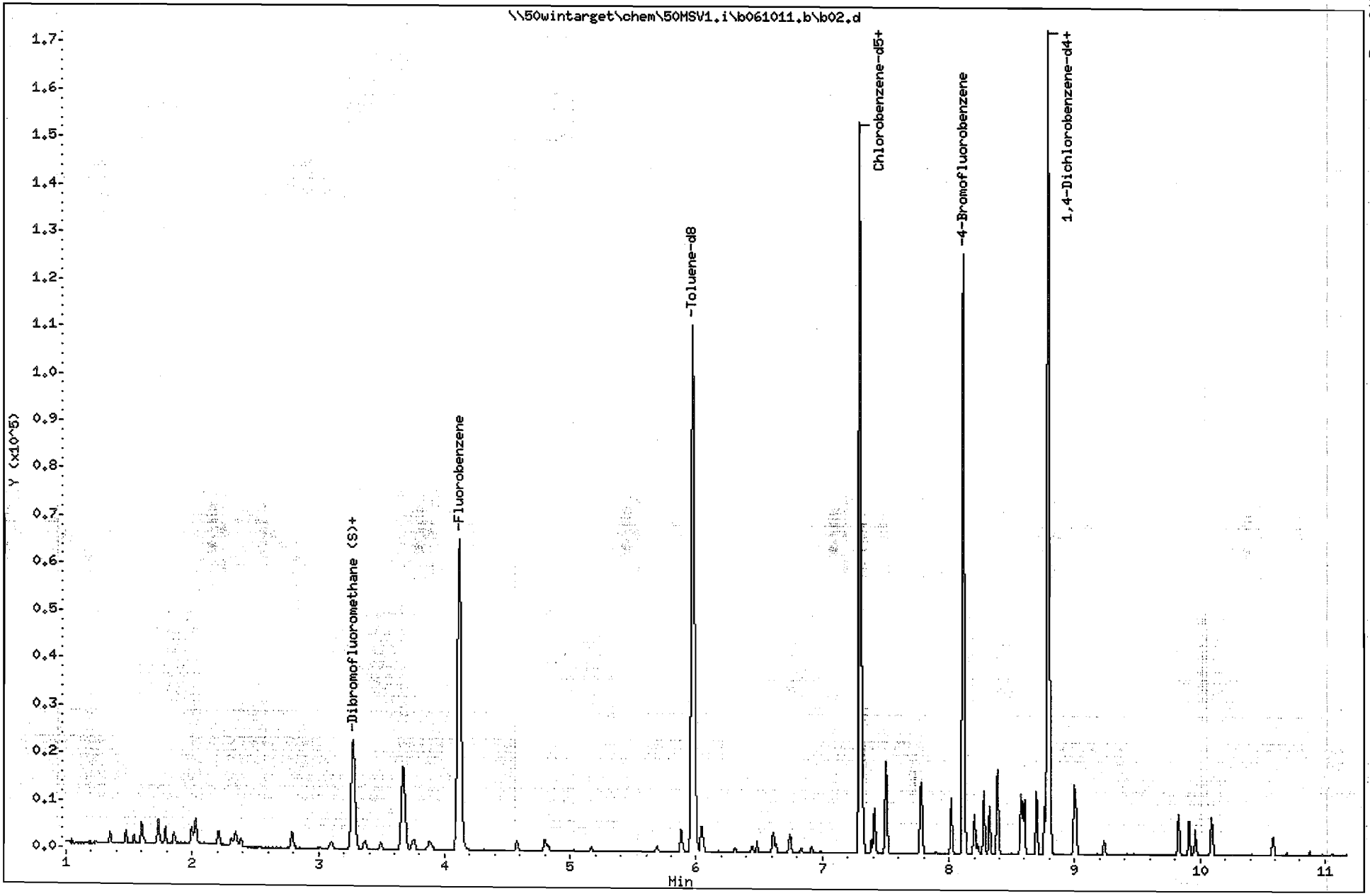
Client SDG: b061011.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-88-3	Toluene	0.811	
10061-02-6	trans-1,3-Dichloropropene	0.000	
	Ethyl Methacrylate	0.000	
79-00-5	1,1,2-Trichloroethane	0.305	
127-18-4	Tetrachloroethene	0.000	
142-28-9	1,3-Dichloropropane	0.000	
591-78-6	2-Hexanone	3.60	
124-48-1	Dibromochloromethane	0.000	
106-93-4	1,2-Dibromoethane	0.000	
108-90-7	Chlorobenzene	0.870	
630-20-6	1,1,1,2-Tetrachloroethane	0.000	
100-41-4	Ethylbenzene	0.282	
7816-60-0	m&p-Xylene	0.000	
95-47-6	o-Xylene	1.14	
100-42-5	Styrene	0.440	
75-25-2	Bromoform	1.31	
98-82-8	Isopropylbenzene	0.0615	
79-34-5	1,1,2,2-Tetrachloroethane	0.000	
108-86-1	Bromobenzene	0.000	
96-18-4	1,2,3-Trichloropropane	0.000	
103-65-1	n-Propylbenzene	0.996	
95-49-8	2-Chlorotoluene	1.12	
106-43-4	4-Chlorotoluene	1.46	
108-67-8	1,3,5-Trimethylbenzene	0.636	
98-06-6	tert-Butylbenzene	1.08	
95-63-6	1,2,4-Trimethylbenzene	1.03	
135-98-8	sec-Butylbenzene	0.000	
541-73-1	1,3-Dichlorobenzene	0.000	
99-87-6	p-Isopropyltoluene	0.678	
106-46-7	1,4-Dichlorobenzene	0.000	
104-51-8	n-Butylbenzene	1.24	
95-50-1	1,2-Dichlorobenzene	1.45	
120-82-1	1,2,4-Trichlorobenzene	0.000	
87-61-6	1,2,3-Trichlorobenzene	0.000	
87-68-3	Hexachlorobutadiene	0.000	
91-20-3	Naphthalene	0.000	
	2,methyl-naphthalene	0.000	
1868-53-7	Dibromofluoromethane (S)	49.0	
2037-26-5	Toluene-d8	50.7	
460-00-4	4-Bromofluorobenzene	49.8	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b02.d
Date : 10-JUN-2011 14:29
Client ID: 2ppb
Sample Info: 2ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b02.d

Date : 10-JUN-2011 14:29

Client ID: 2ppb

Instrument: 50MSV1.i

Sample Info: 2ppb

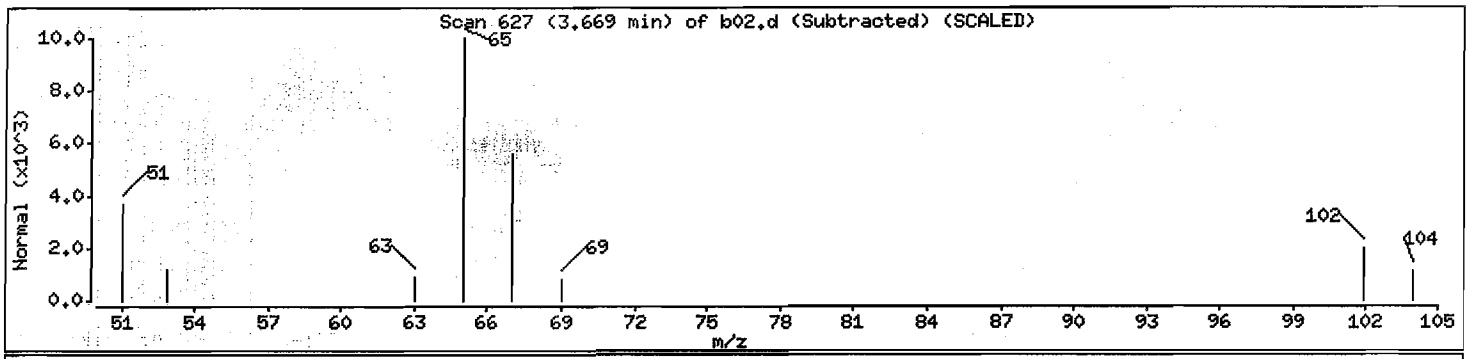
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b03.d
Lab Smp Id: 5ppb Client Smp ID: 5ppb
Inj Date : 10-JUN-2011 15:02
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i Quant Type: ISTD
Cal Date : 02-JUN-2011 20:34 Cal File: b08.d
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.916	0.917	(0.222)	2795	5.00000	4.56(T)
2 Chloromethane	50	0.994	1.017	(0.241)	2581	5.00000	4.71(M)
3 Vinyl Chloride	62	1.047	1.043	(0.254)	2019	5.00000	7.72(T)
4 Bromomethane	94	1.193	1.189	(0.290)	656	5.00000	8.12(Q)
5 Chloroethane	64	1.235	1.231	(0.300)	738	5.00000	6.18
6 Trichlorofluoromethane	101	1.350	1.352	(0.328)	2925	5.00000	5.00
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	3079	5.00000	5.64
7 Diethyl ether	74	1.481	1.477	(0.359)	833	5.00000	2.42(Q)
8 Acrolein	56	1.543	1.540	(0.375)	1802	100.000	138
9 1,1-Dichloroethene	96	1.601	1.603	(0.388)	2180	5.00000	5.28
10 1,1,2trichlorotrifluoroethane	101	1.596	1.597	(0.387)	2252	5.00000	5.88
11 Acetone	43	1.617	1.613	(0.392)	1935	25.0000	33.1
12 Iodomethane	142	1.690	1.686	(0.410)	1629	10.0000	10.2
142 Acetonitrile	41	1.789	1.786	(0.434)	5961	100.000	116(QM)
13 Carbon Disulfide	76	1.732	1.733	(0.420)	15511	10.0000	10.8
138 Methyl Acetate	43	1.795	1.791	(0.435)	882	5.00000	1.82(M)
14 allyl chloride	41	1.789	1.786	(0.434)	5962	10.0000	11.6
15 Methylene Chloride	84	1.857	1.854	(0.451)	2351	5.00000	6.47
16 Acrylonitrile	53	1.998	1.995	(0.485)	6792	100.000	138
18 1,2-Dichloroethene (trans)	96	2.030	2.026	(0.493)	2277	5.00000	5.89
19 Methyl-tert-butyl ether	73	2.030	2.026	(0.493)	9389	10.0000	13.4
20 n-Hexane	57	2.213	2.209	(0.537)	3823	5.00000	6.63(M)
146 Chloroprene	53	2.386	2.382	(0.579)	4313	5.00000	6.06(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.312	2.309	(0.561)	5433	5.00000	7.41
	23 Vinyl Acetate	43	2.344	2.340	(0.569)	13295	20.0000	27.4(T)
	25 1,2-Dichloroethene (cis)	96	2.793	2.790	(0.678)	3007	5.00000	6.52
	24 2,2-Dichloropropane	77	2.788	2.790	(0.676)	3525	5.00000	6.18
	26 2-Butanone	43	2.809	2.800	(0.682)	3172	25.0000	32.8(M)
	143 Methacrylonitrile	41	3.003	2.999	(0.728)	694	25.0000	29.2(QM)
	29 Bromochloromethane	49	3.018	3.015	(0.732)	1780	5.00000	4.76(Q)
	30 Tetrahydrofuran	42	3.086	3.083	(0.749)	653	5.00000	7.36(M)
	31 Chloroform	83	3.107	3.098	(0.754)	5354	5.00000	6.38
$	32 Dibromofluoromethane (S)	113	3.275	3.271	(0.794)	12531	50.0000	46.8
	33 1,1,1-Trichloroethane	97	3.301	3.297	(0.801)	3898	5.00000	5.84(Q)
	139 Cyclohexane	56	3.369	3.370	(0.817)	4470	5.00000	5.84
	37 Isobutyl alcohol	43	3.892	3.883	(0.944)	1625	5.00000	5.90(M)
	36 1,1-Dichloropropene	75	3.500	3.496	(0.849)	4266	5.00000	6.11
	35 Carbon Tetrachloride	117	3.505	3.496	(0.850)	2206	5.00000	4.86
	147 2,2,4-Trimethylpentane	57	3.881	3.883	(0.942)	10381	5.00000	5.63
	38 Benzene	78	3.756	3.752	(0.911)	12258	5.00000	6.31
	39 1,2-Dichloroethane	62	3.777	3.768	(0.916)	2891	5.00000	6.56(M)
*	40 Fluorobenzene	96	4.122	4.118	(1.000)	59632	50.0000	
	41 Trichloroethene	95	4.582	4.579	(1.112)	3122	5.00000	6.09
	140 Methylcyclohexane	55	4.802	4.798	(1.165)	4170	5.00000	5.98(Q)
	42 1,2-Dichloropropane	63	4.833	4.830	(1.173)	2701	5.00000	5.84(M)
	43 Dibromomethane	93	4.969	4.966	(1.206)	1259	5.00000	6.04
	44 Methyl methacrylate	69	5.032	5.028	(1.221)	1142	5.00000	6.20(QM)
	45 Bromodichloromethane	83	5.173	5.170	(1.255)	3114	5.00000	5.81(QM)
	46 2-Chloroethyl vinyl ether	63	5.550	5.551	(0.761)	1077	10.0000	0.459(QM)
	47 cis-1,3-Dichloropropene	75	5.686	5.687	(0.779)	4000	5.00000	4.10
	48 4-Methyl-2-Pentanone	43	5.879	5.876	(0.806)	9879	25.0000	40.3
$	49 Toluene-d8	98	5.979	5.975	(0.819)	57105	50.0000	51.3
	50 Toluene	91	6.047	6.043	(0.829)	13718	5.00000	6.49
	51 trans-1,3-Dichloropropene	75	6.308	6.305	(0.865)	3045	5.00000	4.30
	52 Ethyl Methacrylate	69	6.444	6.441	(0.883)	3046	5.00000	4.23(M)
	53 1,1,2-Trichloroethane	83	6.486	6.482	(0.889)	2019	5.00000	6.80(Q)
	54 Tetrachloroethene	166	6.611	6.608	(0.906)	4181	5.00000	3.41
	55 1,3-Dichloropropane	76	6.638	6.634	(0.910)	3981	5.00000	4.12
	56 2-Hexanone	43	6.742	6.739	(0.924)	7213	25.0000	36.9
	57 Dibromochloromethane	129	6.836	6.833	(0.937)	2061	5.00000	4.76
	58 1,2-Dibromoethane	107	6.915	6.911	(0.948)	2179	5.00000	3.51
*	59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	48148	50.0000	
	60 Chlorobenzene	112	7.318	7.319	(1.003)	9757	5.00000	7.07
	61 1,1,1,2-Tetrachloroethane	131	7.386	7.387	(1.012)	2416	5.00000	3.84
	62 Ethylbenzene	106	7.412	7.413	(1.016)	5349	5.00000	6.74
	63 m&p-Xylene	106	7.501	7.502	(1.028)	12562	10.0000	12.0
	65 o-Xylene	106	7.773	7.774	(1.065)	6751	5.00000	7.28
	66 Styrene	104	7.788	7.785	(1.067)	10585	5.00000	6.78
	67 Bromoform	173	7.903	7.900	(0.899)	1133	5.00000	5.58(QM)
	68 Isopropylbenzene	105	8.024	8.020	(1.100)	18279	5.00000	6.40
	69 trans-1,4-Dichloro-2-butene	53	8.243	8.240	(1.130)	630	5.00000	3.96(QM)
$	70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	23455	50.0000	51.2
	72 1,1,2,2-Tetrachloroethane	83	8.212	8.208	(0.934)	3487	5.00000	4.48(M)
	71 Bromobenzene	77	8.201	8.198	(1.124)	8113	5.00000	4.80
	73 1,2,3-Trichloropropane	75	8.233	8.229	(0.936)	3194	5.00000	5.02(Q)
	74 n-Propylbenzene	91	8.275	8.276	(0.941)	22259	5.00000	6.44
	75 2-Chlorotoluene	91	8.322	8.323	(0.946)	13335	5.00000	6.84

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
76 4-Chlorotoluene	126	8.322	8.323	(0.946)	4151	5.00000	6.87
77 1,3,5-Trimethylbenzene	105	8.384	8.381	(0.954)	14549	5.00000	6.36
78 tert-Butylbenzene	119	8.573	8.569	(0.975)	15738	5.00000	6.40
79 1,2,4-Trimethylbenzene	105	8.599	8.595	(0.978)	14793	5.00000	6.58
80 sec-Butylbenzene	105	8.698	8.695	(0.989)	20538	5.00000	3.04
81 1,3-Dichlorobenzene	146	8.756	8.757	(0.996)	9048	5.00000	4.06
83 p-Isopropyltoluene	119	8.777	8.773	(0.998)	15162	5.00000	6.12
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.794	(1.000)	24986	50.0000	
84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	8647	5.00000	4.59
86 n-Butylbenzene	91	8.996	8.993	(1.023)	16407	5.00000	6.46
85 1,2-Dichlorobenzene	146	9.012	9.008	(1.025)	8241	5.00000	7.37
88 1,2,4-Trichlorobenzene	180	9.828	9.830	(1.118)	6343	5.00000	4.79
91 1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	5336	5.00000	4.88
87 1,2-Dibromo-3-chloropropane	155	9.410	9.411	(1.070)	223	5.00000	5.30(Q)
89 Hexachlorobutadiene	225	9.912	9.908	(1.127)	4299	5.00000	3.47
90 Naphthalene	128	9.959	9.960	(1.133)	10522	5.00000	5.51
92 2,methyl-naphthalene	142	10.581	10.583	(1.203)	5546	5.00000	5.70

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b03.d
Lab Smp Id: 5ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 5ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	59632	-7.20
59 Chlorobenzene-d5	57810	28905	115620	48148	-16.71
82 1,4-Dichlorobenze	26911	13456	53822	24986	-7.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.14
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.01
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.01

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	4.56	
74-87-3	Chloromethane	4.71	
75-01-4	Vinyl Chloride	7.72	
74-83-9	Bromomethane	8.12	
75-00-3	Chloroethane	6.18	
75-69-4	Trichlorofluoromethane	5.00	
354-23-4	1,2-dichlorotrifluoroethane	5.64	
60-29-7	Diethyl ether	2.42	
107-02-8	Acrolein	138	
75-35-4	1,1-Dichloroethene	5.28	
76-13-1	1,1,2trichlorotrifluoroethan	5.88	
67-64-1	Acetone	33.1	
	Iodomethane	10.2	
75-05-8	Acetonitrile	116	
75-15-0	Carbon Disulfide	10.8	
79-20-9	Methyl Acetate	1.82	
107-05-1	allyl chloride	11.6	
75-09-2	Methylene Chloride	6.47	
107-13-1	Acrylonitrile	138	
156-60-5	1,2-Dichloroethene (trans)	5.89	
1634-04-4	Methyl-tert-butyl ether	13.4	
	n-Hexane	6.63	
126-99-8	Chloroprene	6.06	
75-34-3	1,1-Dichloroethane	7.41	
108-05-4	Vinyl Acetate	27.4	
156-59-2	1,2-Dichloroethene (cis)	6.52	
594-20-7	2,2-Dichloropropane	6.18	
78-93-3	2-Butanone	32.8	
126-98-7	Methacrylonitrile	29.2	
74-97-5	Bromochloromethane	4.76	
	Tetrahydrofuran	7.36	
67-66-3	Chloroform	6.38	
71-55-6	1,1,1-Trichloroethane	5.84	
110-82-7	Cyclohexane	5.84	
78-83-1	Isobutyl alcohol	5.90	
563-58-6	1,1-Dichloropropene	6.11	
56-23-5	Carbon Tetrachloride	4.86	
540-84-1	2,2,4-Trimethylpentane	5.63	
71-43-2	Benzene	6.31	
107-06-2	1,2-Dichloroethane	6.56	
79-01-6	Trichloroethene	6.09	
108-87-2	Methylcyclohexane	5.98	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
78-87-5	1,2-Dichloropropane	5.84	
74-95-3	Dibromomethane	6.04	
80-62-6	Methyl methacrylate	6.20	
75-27-4	Bromodichloromethane	5.81	
110-75-8	2-Chloroethyl vinyl ether	0.459	
10061-01-5	cis-1,3-Dichloropropene	4.10	
108-10-1	4-Methyl-2-Pentanone	40.3	
108-88-3	Toluene	6.49	
10061-02-6	trans-1,3-Dichloropropene	4.30	
	Ethyl Methacrylate	4.23	
79-00-5	1,1,2-Trichloroethane	6.80	
127-18-4	Tetrachloroethene	3.41	
142-28-9	1,3-Dichloropropane	4.12	
591-78-6	2-Hexanone	36.9	
124-48-1	Dibromochloromethane	4.76	
106-93-4	1,2-Dibromoethane	3.51	
108-90-7	Chlorobenzene	7.07	
630-20-6	1,1,1,2-Tetrachloroethane	3.84	
100-41-4	Ethylbenzene	6.74	
7816-60-0	m&p-Xylene	12.0	
95-47-6	o-Xylene	7.28	
100-42-5	Styrene	6.78	
75-25-2	Bromoform	5.58	
98-82-8	Isopropylbenzene	6.40	
	trans-1,4-Dichloro-2-butene	3.96	
79-34-5	1,1,2,2-Tetrachloroethane	4.48	
108-86-1	Bromobenzene	4.80	
96-18-4	1,2,3-Trichloropropane	5.02	
103-65-1	n-Propylbenzene	6.44	
95-49-8	2-Chlorotoluene	6.84	
106-43-4	4-Chlorotoluene	6.87	
108-67-8	1,3,5-Trimethylbenzene	6.36	
98-06-6	tert-Butylbenzene	6.40	
95-63-6	1,2,4-Trimethylbenzene	6.58	
135-98-8	sec-Butylbenzene	3.04	
541-73-1	1,3-Dichlorobenzene	4.06	
99-87-6	p-Isopropyltoluene	6.12	
106-46-7	1,4-Dichlorobenzene	4.59	
104-51-8	n-Butylbenzene	6.46	
95-50-1	1,2-Dichlorobenzene	7.37	
120-82-1	1,2,4-Trichlorobenzene	4.79	
87-61-6	1,2,3-Trichlorobenzene	4.88	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

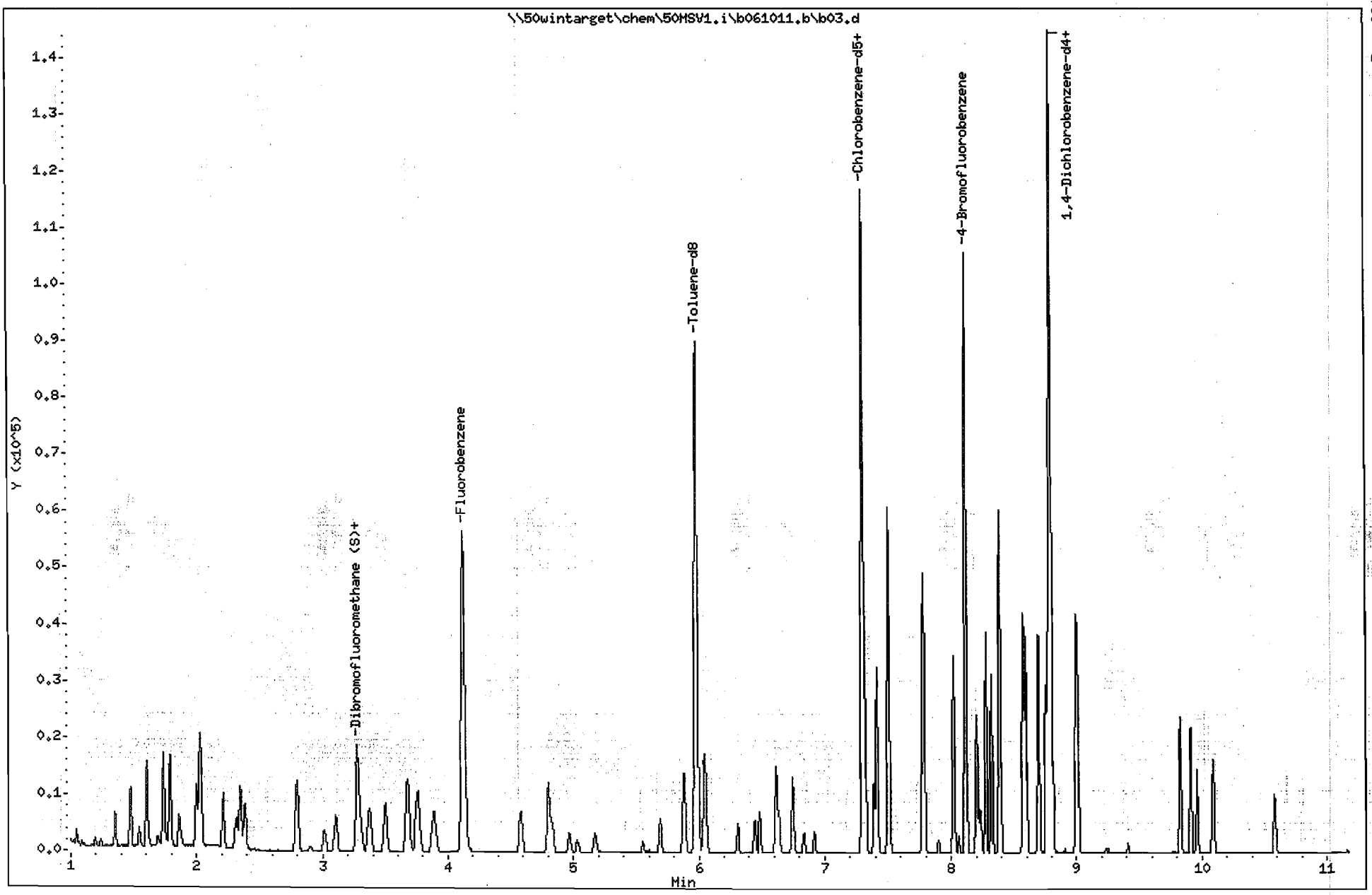
Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	5.30	
87-68-3	Hexachlorobutadiene	3.47	
91-20-3	Naphthalene	5.51	
	2,methyl-naphthalene	5.70	
1868-53-7	Dibromofluoromethane (S)	46.8	
2037-26-5	Toluene-d8	51.3	
460-00-4	4-Bromofluorobenzene	51.2	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b03.d
Date : 10-JUN-2011 15:02
Client ID: 5ppb
Sample Info: 5ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b03.d

Date : 10-JUN-2011 15:02

Client ID: 5ppb

Instrument: 50MSV1.i

Sample Info: 5ppb

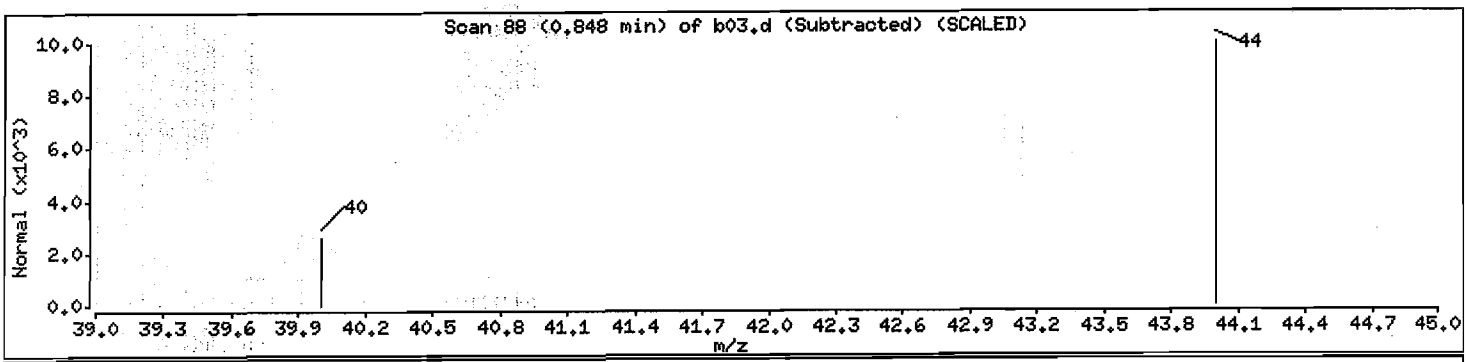
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b04.d
Lab Smp Id: 10ppb Client Smp ID: 10ppb
Inj Date : 10-JUN-2011 15:38
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 10ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i Quant Type: ISTD
Cal Date : 02-JUN-2011 20:34 Cal File: b08.d
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.915	0.917	(0.222)	6608	10.0000	9.32
2 Chloromethane	50	0.999	1.017	(0.243)	5913	10.0000	9.34
3 Vinyl Chloride	62	1.046	1.043	(0.254)	4914	10.0000	11.7
4 Bromomethane	94	1.192	1.189	(0.290)	1913	10.0000	11.2(Q)
5 Chloroethane	64	1.234	1.231	(0.300)	2125	10.0000	10.6
6 Trichlorofluoromethane	101	1.349	1.352	(0.328)	6344	10.0000	9.39
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	5318	10.0000	9.09
7 Diethyl ether	74	1.475	1.477	(0.358)	1362	10.0000	5.73
8 Acrolein	56	1.538	1.540	(0.374)	3465	200.000	199
9 1,1-Dichloroethene	96	1.600	1.603	(0.389)	4033	10.0000	9.25
10 1,1,2trichlorotrifluoroethane	101	1.595	1.597	(0.388)	4550	10.0000	10.3
11 Acetone	43	1.616	1.613	(0.393)	2674	50.0000	43.9
12 Iodomethane	142	1.689	1.686	(0.410)	4443	20.0000	16.9
142 Acetonitrile	41	1.789	1.786	(0.435)	10083	200.000	183
13 Carbon Disulfide	76	1.731	1.733	(0.421)	26961	20.0000	18.9
138 Methyl Acetate	43	1.794	1.791	(0.436)	1163	10.0000	3.32(M)
14 allyl chloride	41	1.789	1.786	(0.435)	10083	20.0000	18.3
15 Methylene Chloride	84	1.857	1.854	(0.451)	3849	10.0000	9.82
16 Acrylonitrile	53	1.998	1.995	(0.485)	10713	200.000	193
17 tert-Butyl Alcohol	59	1.914	1.911	(0.465)	112	20.0000	7.07(M)
18 1,2-Dichloroethene (trans)	96	2.024	2.026	(0.492)	4081	10.0000	9.72
19 Methyl-tert-butyl ether	73	2.024	2.026	(0.492)	14828	20.0000	19.4
20 n-Hexane	57	2.207	2.209	(0.536)	5654	10.0000	8.76

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
146 Chloroprene	53	2.385	2.382	(0.579)	7703	10.0000	9.72
21 1,1-Dichloroethane	63	2.312	2.309	(0.562)	8959	10.0000	10.3
23 Vinyl Acetate	43	2.343	2.340	(0.569)	21400	40.0000	38.2
25 1,2-Dichloroethene (cis)	96	2.793	2.790	(0.679)	5344	10.0000	10.1
24 2,2-Dichloropropane	77	2.788	2.790	(0.677)	6537	10.0000	9.90
26 2-Butanone	43	2.803	2.800	(0.681)	5040	50.0000	47.2(M)
143 Methacrylonitrile	41	3.002	2.999	(0.729)	1163	50.0000	42.2(M)
29 Bromochloromethane	49	3.018	3.015	(0.733)	2965	10.0000	8.42
30 Tetrahydrofuran	42	3.086	3.083	(0.750)	958	10.0000	9.34(M)
31 Chloroform	83	3.096	3.098	(0.752)	8921	10.0000	9.36
$ 32 Dibromofluoromethane (S)	113	3.269	3.271	(0.794)	15958	50.0000	51.5
33 1,1,1-Trichloroethane	97	3.305	3.297	(0.803)	7552	10.0000	9.79
139 Cyclohexane	56	3.368	3.370	(0.818)	8388	10.0000	9.84
37 Isobutyl alcohol	43	3.881	3.883	(0.943)	2947	10.0000	9.25(M)
36 1,1-Dichloropropene	75	3.494	3.496	(0.849)	7388	10.0000	9.48
35 Carbon Tetrachloride	117	3.499	3.496	(0.850)	4614	10.0000	8.79
147 2,2,4-Trimethylpentane	57	3.886	3.883	(0.944)	17955	10.0000	8.80
38 Benzene	78	3.745	3.752	(0.910)	20010	10.0000	9.27
39 1,2-Dichloroethane	62	3.771	3.768	(0.916)	4410	10.0000	8.78(M)
* 40 Fluorobenzene	96	4.116	4.118	(1.000)	68963	50.0000	
41 Trichloroethene	95	4.576	4.579	(1.112)	5643	10.0000	9.51
140 Methylcyclohexane	55	4.796	4.798	(1.165)	7683	10.0000	9.81
42 1,2-Dichloropropane	63	4.833	4.830	(1.174)	4674	10.0000	9.08(M)
43 Dibromomethane	93	4.969	4.966	(1.207)	2296	10.0000	9.52
44 Methyl methacrylate	69	5.031	5.028	(1.222)	1904	10.0000	8.94
45 Bromodichloromethane	83	5.173	5.170	(1.257)	5641	10.0000	9.11(M)
46 2-Chloroethyl vinyl ether	63	5.554	5.551	(0.761)	2016	20.0000	9.74
47 cis-1,3-Dichloropropene	75	5.685	5.687	(0.779)	6880	10.0000	6.75
48 4-Methyl-2-Pentanone	43	5.879	5.876	(0.806)	14353	50.0000	47.1
$ 49 Toluene-d8	98	5.978	5.975	(0.819)	68670	50.0000	48.6
50 Toluene	91	6.046	6.043	(0.829)	22732	10.0000	8.91
51 trans-1,3-Dichloropropene	75	6.302	6.305	(0.864)	5210	10.0000	6.72
52 Ethyl Methacrylate	69	6.444	6.441	(0.883)	4482	10.0000	5.65(M)
53 1,1,2-Trichloroethane	83	6.480	6.482	(0.888)	3286	10.0000	9.00
54 Tetrachloroethene	166	6.611	6.608	(0.906)	7673	10.0000	7.07
55 1,3-Dichloropropane	76	6.632	6.634	(0.909)	6167	10.0000	6.35
56 2-Hexanone	43	6.742	6.739	(0.924)	11281	50.0000	47.9
57 Dibromochloromethane	129	6.831	6.833	(0.936)	3341	10.0000	6.73
58 1,2-Dibromoethane	107	6.914	6.911	(0.948)	3548	10.0000	6.08
* 59 Chlorobenzene-d5	117	7.296	7.298	(1.000)	61175	50.0000	
60 Chlorobenzene	112	7.317	7.319	(1.003)	15954	10.0000	9.48
61 1,1,1,2-Tetrachloroethane	131	7.390	7.387	(1.013)	4033	10.0000	6.21
62 Ethylbenzene	106	7.411	7.413	(1.016)	9422	10.0000	10.0
63 m&p-Xylene	106	7.500	7.502	(1.028)	21659	20.0000	18.3
65 o-Xylene	106	7.772	7.774	(1.065)	10720	10.0000	9.35
66 Styrene	104	7.782	7.785	(1.067)	17115	10.0000	9.12
67 Bromoform	173	7.903	7.900	(0.899)	1932	10.0000	8.20(M)
68 Isopropylbenzene	105	8.018	8.020	(1.099)	30979	10.0000	9.27
69 trans-1,4-Dichloro-2-butene	53	8.243	8.240	(1.130)	883	10.0000	4.91(Q)
$ 70 4-Bromofluorobenzene	95	8.112	8.114	(1.112)	28274	50.0000	48.6
72 1,1,2,2-Tetrachloroethane	83	8.211	8.208	(0.934)	5373	10.0000	7.84
71 Bromobenzene	77	8.201	8.198	(1.124)	12538	10.0000	7.09
73 1,2,3-Trichloropropane	75	8.227	8.229	(0.936)	4850	10.0000	7.71
74 n-Propylbenzene	91	8.274	8.276	(0.941)	36666	10.0000	9.64

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
75 2-Chlorotoluene	91	8.326	8.323	(0.947)	20738	10.0000	9.53
76 4-Chlorotoluene	126	8.326	8.323	(0.947)	6345	10.0000	9.24
77 1,3,5-Trimethylbenzene	105	8.384	8.381	(0.954)	24895	10.0000	10.1
78 tert-Butylbenzene	119	8.572	8.569	(0.975)	26440	10.0000	9.74
79 1,2,4-Trimethylbenzene	105	8.598	8.595	(0.978)	24171	10.0000	9.83
80 sec-Butylbenzene	105	8.692	8.695	(0.989)	34353	10.0000	7.22
81 1,3-Dichlorobenzene	146	8.755	8.757	(0.996)	13732	10.0000	7.14
83 p-Isopropyltoluene	119	8.776	8.773	(0.998)	26425	10.0000	9.94
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.794	(1.000)	29039	50.0000	
84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	12540	10.0000	7.09
86 n-Butylbenzene	91	8.996	8.993	(1.023)	26323	10.0000	9.25
85 1,2-Dichlorobenzene	146	9.012	9.008	(1.025)	11790	10.0000	9.39
88 1,2,4-Trichlorobenzene	180	9.827	9.830	(1.118)	9566	10.0000	7.39
91 1,2,3-Trichlorobenzene	180	10.089	10.086	(1.148)	8176	10.0000	7.83
87 1,2-Dibromo-3-chloropropane	155	9.414	9.411	(1.071)	413	10.0000	7.70
89 Hexachlorobutadiene	225	9.911	9.908	(1.127)	7535	10.0000	7.64
90 Naphthalene	128	9.958	9.960	(1.133)	14701	10.0000	7.66
92 2,methyl-naphthalene	142	10.586	10.583	(1.204)	8325	10.0000	8.28

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b04.d
Lab Smp Id: 10ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 10ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	68963	7.33
59 Chlorobenzene-d5	57810	28905	115620	61175	5.82
82 1,4-Dichlorobenze	26911	13456	53822	29039	7.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.00
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.00
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	9.32	
74-87-3	Chloromethane	9.34	
75-01-4	Vinyl Chloride	11.7	
74-83-9	Bromomethane	11.2	
75-00-3	Chloroethane	10.6	
75-69-4	Trichlorofluoromethane	9.39	
354-23-4	1,2-dichlorotrifluoroethane	9.09	
60-29-7	Diethyl ether	5.73	
107-02-8	Acrolein	199	
75-35-4	1,1-Dichloroethene	9.25	
76-13-1	1,1,2trichlorotrifluoroethan	10.3	
67-64-1	Acetone	43.9	
	Iodomethane	16.9	
75-05-8	Acetonitrile	183	
75-15-0	Carbon Disulfide	18.9	
79-20-9	Methyl Acetate	3.32	
107-05-1	allyl chloride	18.3	
75-09-2	Methylene Chloride	9.82	
107-13-1	Acrylonitrile	193	
75-65-0	tert-Butyl Alcohol	7.07	
156-60-5	1,2-Dichloroethene (trans)	9.72	
1634-04-4	Methyl-tert-butyl ether	19.4	
	n-Hexane	8.76	
126-99-8	Chloroprene	9.72	
75-34-3	1,1-Dichloroethane	10.3	
108-05-4	Vinyl Acetate	38.2	
156-59-2	1,2-Dichloroethene (cis)	10.1	
594-20-7	2,2-Dichloropropane	9.90	
78-93-3	2-Butanone	47.2	
126-98-7	Methacrylonitrile	42.2	
74-97-5	Bromochloromethane	8.42	
	Tetrahydrofuran	9.34	
67-66-3	Chloroform	9.36	
71-55-6	1,1,1-Trichloroethane	9.79	
110-82-7	Cyclohexane	9.84	
78-83-1	Isobutyl alcohol	9.25	
563-58-6	1,1-Dichloropropene	9.48	
56-23-5	Carbon Tetrachloride	8.79	
540-84-1	2,2,4-Trimethylpentane	8.80	
71-43-2	Benzene	9.27	
107-06-2	1,2-Dichloroethane	8.78	
79-01-6	Trichloroethene	9.51	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	9.81	
78-87-5	1,2-Dichloropropane	9.08	
74-95-3	Dibromomethane	9.52	
80-62-6	Methyl methacrylate	8.94	
75-27-4	Bromodichloromethane	9.11	
110-75-8	2-Chloroethyl vinyl ether	9.74	
10061-01-5	cis-1,3-Dichloropropene	6.75	
108-10-1	4-Methyl-2-Pentanone	47.1	
108-88-3	Toluene	8.91	
10061-02-6	trans-1,3-Dichloropropene	6.72	
	Ethyl Methacrylate	5.65	
79-00-5	1,1,2-Trichloroethane	9.00	
127-18-4	Tetrachloroethene	7.07	
142-28-9	1,3-Dichloropropane	6.35	
591-78-6	2-Hexanone	47.9	
124-48-1	Dibromochloromethane	6.73	
106-93-4	1,2-Dibromoethane	6.08	
108-90-7	Chlorobenzene	9.48	
630-20-6	1,1,1,2-Tetrachloroethane	6.21	
100-41-4	Ethylbenzene	10.0	
7816-60-0	m&p-Xylene	18.3	
95-47-6	o-Xylene	9.35	
100-42-5	Styrene	9.12	
75-25-2	Bromoform	8.20	
98-82-8	Isopropylbenzene	9.27	
	trans-1,4-Dichloro-2-butene	4.91	
79-34-5	1,1,2,2-Tetrachloroethane	7.84	
108-86-1	Bromobenzene	7.09	
96-18-4	1,2,3-Trichloropropane	7.71	
103-65-1	n-Propylbenzene	9.64	
95-49-8	2-Chlorotoluene	9.53	
106-43-4	4-Chlorotoluene	9.24	
108-67-8	1,3,5-Trimethylbenzene	10.1	
98-06-6	tert-Butylbenzene	9.74	
95-63-6	1,2,4-Trimethylbenzene	9.83	
135-98-8	sec-Butylbenzene	7.22	
541-73-1	1,3-Dichlorobenzene	7.14	
99-87-6	p-Isopropyltoluene	9.94	
106-46-7	1,4-Dichlorobenzene	7.09	
104-51-8	n-Butylbenzene	9.25	
95-50-1	1,2-Dichlorobenzene	9.39	
120-82-1	1,2,4-Trichlorobenzene	7.39	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

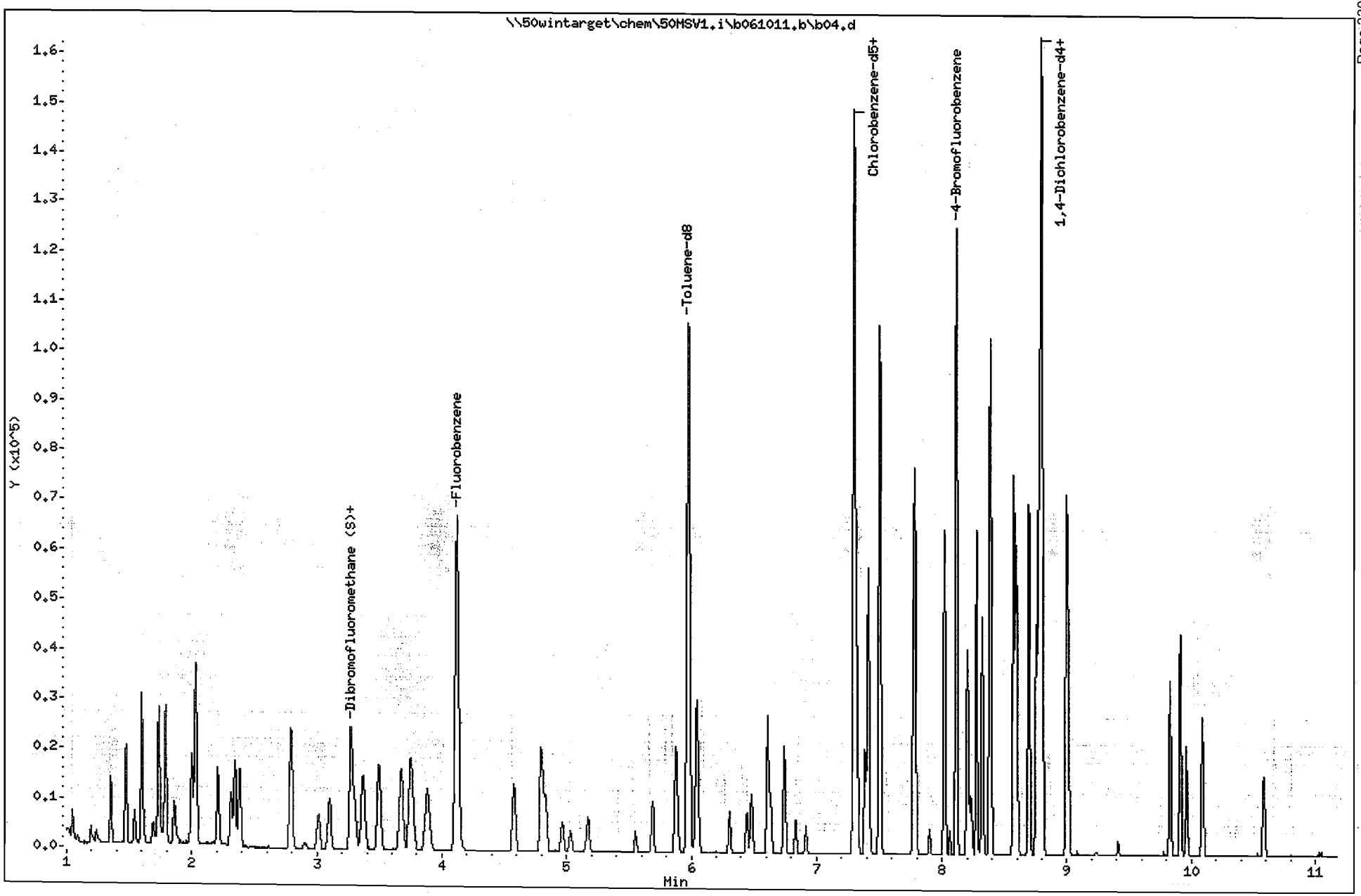
Client SDG: b061011.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
87-61-6	1,2,3-Trichlorobenzene	7.83	
96-12-8	1,2-Dibromo-3-chloropropane	7.70	
87-68-3	Hexachlorobutadiene	7.64	
91-20-3	Naphthalene	7.66	
	2,methyl-naphthalene	8.28	
1868-53-7	Dibromofluoromethane (S)	51.5	
2037-26-5	Toluene-d8	48.6	
460-00-4	4-Bromofluorobenzene	48.6	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b04.d
Date : 10-JUN-2011 15:38
Client ID: 10ppb
Sample Info: 10ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b04.d

Date : 10-JUN-2011 15:38

Client ID: 10ppb

Instrument: 50MSV1.i

Sample Info: 10ppb

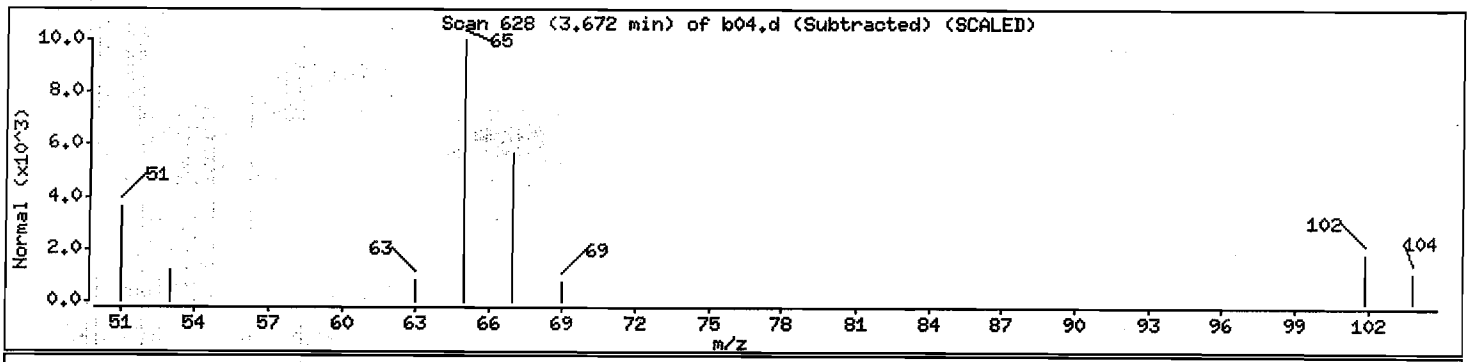
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b05.d
Lab Smp Id: 20ppb
Client Smp ID: 20ppb
Inj Date : 10-JUN-2011 16:16
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 20ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:34
Cal File: b08.d
Als bottle: 12
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.917	0.917	(0.223)	13557	20.0000	20.4
2 Chloromethane	50	1.011	1.017	(0.246)	10976	20.0000	18.4
3 Vinyl Chloride	62	1.042	1.043	(0.253)	9536	20.0000	19.7
4 Bromomethane	94	1.194	1.189	(0.290)	4516	20.0000	18.9
5 Chloroethane	64	1.236	1.231	(0.300)	5002	20.0000	21.8
6 Trichlorofluoromethane	101	1.351	1.352	(0.328)	13238	20.0000	20.8
28 1,2-dichlorotrifluoroethane	67	1.471	1.472	(0.357)	10983	20.0000	21.6
7 Diethyl ether	74	1.476	1.477	(0.359)	2962	20.0000	20.6
8 Acrolein	56	1.539	1.540	(0.374)	8063	400.000	425
9 1,1-Dichloroethene	96	1.602	1.603	(0.389)	7500	20.0000	19.6
10 1,1,2trichlorotrifluoroethane	101	1.597	1.597	(0.388)	8479	20.0000	20.4
11 Acetone	43	1.612	1.613	(0.392)	4839	100.000	106
12 Iodomethane	142	1.685	1.686	(0.409)	11176	40.0000	36.4
142 Acetonitrile	41	1.785	1.786	(0.434)	19103	400.000	399
13 Carbon Disulfide	76	1.733	1.733	(0.421)	50530	40.0000	42.8
138 Methyl Acetate	43	1.790	1.791	(0.435)	2306	20.0000	16.8
14 allyl chloride	41	1.785	1.786	(0.434)	19103	40.0000	39.9
15 Methylene Chloride	84	1.858	1.854	(0.451)	6919	20.0000	20.2
16 Acrylonitrile	53	1.994	1.995	(0.484)	20451	400.000	404
17 tert-Butyl Alcohol	59	1.910	1.911	(0.464)	720	40.0000	48.4(TM)
18 1,2-Dichloroethene (trans)	96	2.025	2.026	(0.492)	7846	20.0000	21.0
19 Methyl-tert-butyl ether	73	2.025	2.026	(0.492)	27119	40.0000	40.3
20 n-Hexane	57	2.208	2.209	(0.536)	10535	20.0000	18.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
146 Chloroprene	53	2.381	2.382	(0.578)	13962	20.0000	19.4
21 1,1-Dichloroethane	63	2.308	2.309	(0.561)	12942	20.0000	15.5
23 Vinyl Acetate	43	2.339	2.340	(0.568)	37482	80.0000	71.6
25 1,2-Dichloroethene (cis)	96	2.784	2.790	(0.676)	9930	20.0000	20.0
24 2,2-Dichloropropane	77	2.784	2.790	(0.676)	12862	20.0000	20.7
26 2-Butanone	43	2.799	2.800	(0.680)	9319	100.000	98.5
143 Methacrylonitrile	41	2.998	2.999	(0.728)	2734	100.000	106
29 Bromochloromethane	49	3.009	3.015	(0.731)	5745	20.0000	21.1
30 Tetrahydrofuran	42	3.082	3.083	(0.749)	1643	20.0000	17.0
31 Chloroform	83	3.098	3.098	(0.752)	17718	20.0000	20.2
$ 32 Dibromofluoromethane (S)	113	3.270	3.271	(0.794)	14775	50.0000	50.7
33 1,1,1-Trichloroethane	97	3.302	3.297	(0.802)	14215	20.0000	19.6
139 Cyclohexane	56	3.370	3.370	(0.818)	16736	20.0000	21.6
37 Isobutyl alcohol	43	3.882	3.883	(0.943)	5917	20.0000	19.8 (M)
36 1,1-Dichloropropene	75	3.490	3.496	(0.848)	14930	20.0000	21.1
35 Carbon Tetrachloride	117	3.495	3.496	(0.849)	9946	20.0000	20.2
147 2,2,4-Trimethylpentane	57	3.877	3.883	(0.942)	35231	20.0000	19.2
38 Benzene	78	3.746	3.752	(0.910)	38115	20.0000	19.7
39 1,2-Dichloroethane	62	3.772	3.768	(0.916)	9024	20.0000	19.6 (M)
* 40 Fluorobenzene	96	4.117	4.118	(1.000)	64802	50.0000	
41 Trichloroethene	95	4.572	4.579	(1.110)	10986	20.0000	19.7
140 Methylcyclohexane	55	4.803	4.798	(1.166)	14870	20.0000	20.7
42 1,2-Dichloropropane	63	4.829	4.830	(1.173)	9672	20.0000	20.8 (M)
43 Dibromomethane	93	4.965	4.966	(1.206)	4319	20.0000	19.1 (M)
44 Methyl methacrylate	69	5.028	5.028	(1.221)	3903	20.0000	19.5
45 Bromodichloromethane	83	5.169	5.170	(1.255)	10879	20.0000	18.7
46 2-Chloroethyl vinyl ether	63	5.551	5.551	(0.761)	4066	40.0000	42.6
47 cis-1,3-Dichloropropene	75	5.687	5.687	(0.779)	14424	20.0000	19.1
48 4-Methyl-2-Pentanone	43	5.880	5.876	(0.806)	27128	100.000	101
$ 49 Toluene-d8	98	5.974	5.975	(0.819)	68881	50.0000	51.6
50 Toluene	91	6.047	6.043	(0.829)	43420	20.0000	19.5
51 trans-1,3-Dichloropropene	75	6.304	6.305	(0.864)	10309	20.0000	17.0
52 Ethyl Methacrylate	69	6.440	6.441	(0.882)	9192	20.0000	17.8 (M)
53 1,1,2-Trichloroethane	83	6.481	6.482	(0.888)	6384	20.0000	19.6
54 Tetrachloroethene	166	6.607	6.608	(0.905)	14840	20.0000	19.5
55 1,3-Dichloropropane	76	6.633	6.634	(0.909)	12294	20.0000	20.1
56 2-Hexanone	43	6.738	6.739	(0.923)	20063	100.000	99.7
57 Dibromochloromethane	129	6.832	6.833	(0.936)	6816	20.0000	17.3
58 1,2-Dibromoethane	107	6.910	6.911	(0.947)	6699	20.0000	17.8
* 59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	57778	50.0000	
60 Chlorobenzene	112	7.318	7.319	(1.003)	29788	20.0000	20.0
61 1,1,1,2-Tetrachloroethane	131	7.386	7.387	(1.012)	8075	20.0000	17.3
62 Ethylbenzene	106	7.412	7.413	(1.016)	17071	20.0000	20.8
63 m&p-Xylene	106	7.501	7.502	(1.028)	41590	40.0000	43.0
65 o-Xylene	106	7.773	7.774	(1.065)	20763	20.0000	20.2
66 Styrene	104	7.784	7.785	(1.067)	33079	20.0000	20.5
67 Bromoform	173	7.899	7.900	(0.898)	3861	20.0000	16.2
68 Isopropylbenzene	105	8.019	8.020	(1.099)	58170	20.0000	20.6
69 trans-1,4-Dichloro-2-butene	53	8.239	8.240	(1.129)	1645	20.0000	14.8
$ 70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	27813	50.0000	50.6
72 1,1,2,2-Tetrachloroethane	83	8.207	8.208	(0.933)	9535	20.0000	18.2
71 Bromobenzene	77	8.197	8.198	(1.123)	23746	20.0000	20.0
73 1,2,3-Trichloropropane	75	8.228	8.229	(0.936)	8956	20.0000	17.2
74 n-Propylbenzene	91	8.275	8.276	(0.941)	70271	20.0000	19.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
75 2-Chlorotoluene	91	8.323	8.323	(0.946)	38431	20.0000	18.4
76 4-Chlorotoluene	126	8.323	8.323	(0.946)	12314	20.0000	18.4
77 1,3,5-Trimethylbenzene	105	8.380	8.381	(0.953)	44343	20.0000	19.0
78 tert-Butylbenzene	119	8.574	8.569	(0.975)	48854	20.0000	18.8
79 1,2,4-Trimethylbenzene	105	8.600	8.595	(0.978)	44452	20.0000	19.1
80 sec-Butylbenzene	105	8.694	8.695	(0.989)	66293	20.0000	19.7
81 1,3-Dichlorobenzene	146	8.757	8.757	(0.996)	25004	20.0000	17.7
83 p-Isopropyltoluene	119	8.772	8.773	(0.998)	48917	20.0000	19.5
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.794	(1.000)	29282	50.0000	
84 1,4-Dichlorobenzene	146	8.804	8.805	(1.001)	23624	20.0000	18.0
86 n-Butylbenzene	91	8.992	8.993	(1.023)	50825	20.0000	18.5
85 1,2-Dichlorobenzene	146	9.008	9.008	(1.024)	22068	20.0000	18.6
88 1,2,4-Trichlorobenzene	180	9.829	9.830	(1.118)	16883	20.0000	15.9
91 1,2,3-Trichlorobenzene	180	10.090	10.086	(1.147)	14005	20.0000	16.4
87 1,2-Dibromo-3-chloropropane	155	9.410	9.411	(1.070)	948	20.0000	15.9
89 Hexachlorobutadiene	225	9.912	9.908	(1.127)	14086	20.0000	18.2
90 Naphthalene	128	9.960	9.960	(1.133)	25546	20.0000	16.9
92 2,methyl-naphthalene	142	10.582	10.583	(1.203)	14950	20.0000	17.2

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b05.d
Lab Smp Id: 20ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 20ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	64802	0.85
59 Chlorobenzene-d5	57810	28905	115620	57778	-0.06
82 1,4-Dichlorobenze	26911	13456	53822	29282	8.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.04
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.02

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	20.4	
74-87-3	Chloromethane	18.4	
75-01-4	Vinyl Chloride	19.7	
74-83-9	Bromomethane	18.9	
75-00-3	Chloroethane	21.8	
75-69-4	Trichlorofluoromethane	20.8	
354-23-4	1,2-dichlorotrifluoroethane	21.6	
60-29-7	Diethyl ether	20.6	
107-02-8	Acrolein	425	
75-35-4	1,1-Dichloroethene	19.6	
76-13-1	1,1,2trichlorotrifluoroethan	20.4	
67-64-1	Acetone	106	
	Iodomethane	36.4	
75-05-8	Acetonitrile	399	
75-15-0	Carbon Disulfide	42.8	
79-20-9	Methyl Acetate	16.8	
107-05-1	allyl chloride	39.9	
75-09-2	Methylene Chloride	20.2	
107-13-1	Acrylonitrile	404	
75-65-0	tert-Butyl Alcohol	48.4	
156-60-5	1,2-Dichloroethene (trans)	21.0	
1634-04-4	Methyl-tert-butyl ether	40.3	
	n-Hexane	18.4	
126-99-8	Chloroprene	19.4	
75-34-3	1,1-Dichloroethane	15.5	
108-05-4	Vinyl Acetate	71.6	
156-59-2	1,2-Dichloroethene (cis)	20.0	
594-20-7	2,2-Dichloropropane	20.7	
78-93-3	2-Butanone	98.5	
126-98-7	Methacrylonitrile	106	
74-97-5	Bromochloromethane	21.1	
	Tetrahydrofuran	17.0	
67-66-3	Chloroform	20.2	
71-55-6	1,1,1-Trichloroethane	19.6	
110-82-7	Cyclohexane	21.6	
78-83-1	Isobutyl alcohol	19.8	
563-58-6	1,1-Dichloropropene	21.1	
56-23-5	Carbon Tetrachloride	20.2	
540-84-1	2,2,4-Trimethylpentane	19.2	
71-43-2	Benzene	19.7	
107-06-2	1,2-Dichloroethane	19.6	
79-01-6	Trichloroethene	19.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	20.7	
78-87-5	1,2-Dichloropropane	20.8	
74-95-3	Dibromomethane	19.1	
80-62-6	Methyl methacrylate	19.5	
75-27-4	Bromodichloromethane	18.7	
110-75-8	2-Chloroethyl vinyl ether	42.6	
10061-01-5	cis-1,3-Dichloropropene	19.1	
108-10-1	4-Methyl-2-Pentanone	101	
108-88-3	Toluene	19.5	
10061-02-6	trans-1,3-Dichloropropene	17.0	
	Ethyl Methacrylate	17.8	
79-00-5	1,1,2-Trichloroethane	19.6	
127-18-4	Tetrachloroethene	19.5	
142-28-9	1,3-Dichloropropane	20.1	
591-78-6	2-Hexanone	99.7	
124-48-1	Dibromochloromethane	17.3	
106-93-4	1,2-Dibromoethane	17.8	
108-90-7	Chlorobenzene	20.0	
630-20-6	1,1,1,2-Tetrachloroethane	17.3	
100-41-4	Ethylbenzene	20.8	
7816-60-0	m&p-Xylene	43.0	
95-47-6	o-Xylene	20.2	
100-42-5	Styrene	20.5	
75-25-2	Bromoform	16.2	
98-82-8	Isopropylbenzene	20.6	
	trans-1,4-Dichloro-2-butene	14.8	
79-34-5	1,1,2,2-Tetrachloroethane	18.2	
108-86-1	Bromobenzene	20.0	
96-18-4	1,2,3-Trichloropropane	17.2	
103-65-1	n-Propylbenzene	19.4	
95-49-8	2-Chlorotoluene	18.4	
106-43-4	4-Chlorotoluene	18.4	
108-67-8	1,3,5-Trimethylbenzene	19.0	
98-06-6	tert-Butylbenzene	18.8	
95-63-6	1,2,4-Trimethylbenzene	19.1	
135-98-8	sec-Butylbenzene	19.7	
541-73-1	1,3-Dichlorobenzene	17.7	
99-87-6	p-Isopropyltoluene	19.5	
106-46-7	1,4-Dichlorobenzene	18.0	
104-51-8	n-Butylbenzene	18.5	
95-50-1	1,2-Dichlorobenzene	18.6	
120-82-1	1,2,4-Trichlorobenzene	15.9	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

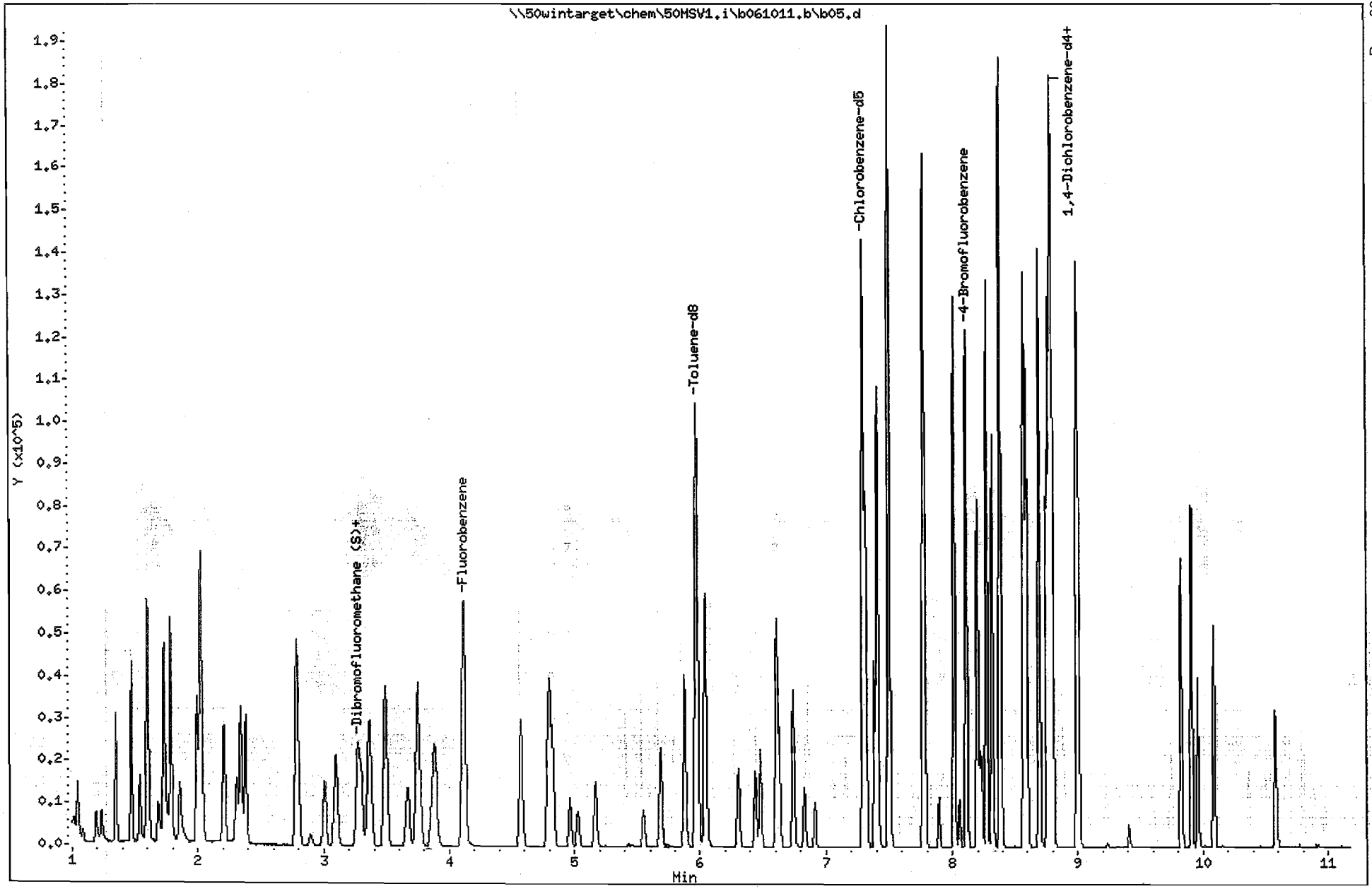
Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
87-61-6	1,2,3-Trichlorobenzene	16.4	
96-12-8	1,2-Dibromo-3-chloropropane	15.9	
87-68-3	Hexachlorobutadiene	18.2	
91-20-3	Naphthalene	16.9	
	2,methyl-naphthalene	17.2	
1868-53-7	Dibromofluoromethane (S)	50.7	
2037-26-5	Toluene-d8	51.6	
460-00-4	4-Bromofluorobenzene	50.6	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b05.d
Date : 10-JUN-2011 16:16
Client ID: 20ppb
Sample Info: 20ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b05.d

Date : 10-JUN-2011 16:16

Client ID: 20ppb

Instrument: 50MSV1.i

Sample Info: 20ppb

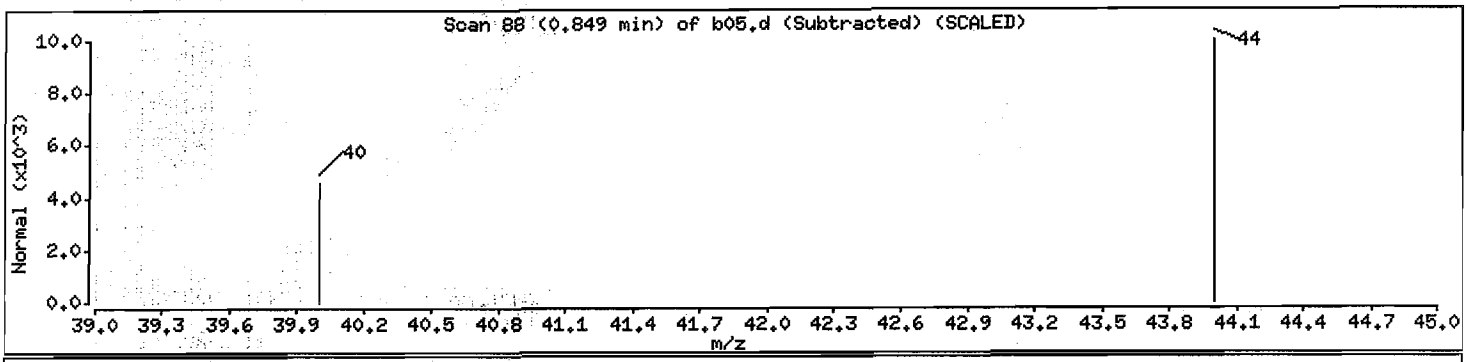
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b06.d
Lab Smp Id: 50ppb
Client Smp ID: 50ppb
Inj Date : 10-JUN-2011 16:53
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 50ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i
Quant Type: ISTD
Cal Date : 02-JUN-2011 20:34
Cal File: b08.d
Als bottle: 14
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.915	0.917	(0.222)	29832	50.0000	45.2
2 Chloromethane	50	1.004	1.017	(0.244)	24942	50.0000	42.3
3 Vinyl Chloride	62	1.046	1.043	(0.254)	22190	50.0000	40.6
4 Bromomethane	94	1.192	1.189	(0.290)	11726	50.0000	39.7
5 Chloroethane	64	1.234	1.231	(0.300)	10487	50.0000	42.4
6 Trichlorofluoromethane	101	1.349	1.352	(0.328)	29470	50.0000	46.8
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	26112	50.0000	53.8
7 Diethyl ether	74	1.475	1.477	(0.358)	6811	50.0000	55.1
8 Acrolein	56	1.538	1.540	(0.374)	16481	1000.00	826
9 1,1-Dichloroethene	96	1.600	1.603	(0.389)	19679	50.0000	54.0
10 1,1,2trichlorotrifluoroethane	101	1.595	1.597	(0.388)	22051	50.0000	53.4
11 Acetone	43	1.616	1.613	(0.393)	11205	250.000	277
12 Iodomethane	142	1.689	1.686	(0.410)	36985	100.000	109
142 Acetonitrile	41	1.789	1.786	(0.435)	50369	1000.00	1110
13 Carbon Disulfide	76	1.731	1.733	(0.421)	124187	100.000	114
138 Methyl Acetate	43	1.789	1.791	(0.435)	5595	50.0000	54.0
14 allyl chloride	41	1.789	1.786	(0.435)	50369	100.000	111
15 Methylene Chloride	84	1.857	1.854	(0.451)	16899	50.0000	52.2
16 Acrylonitrile	53	1.998	1.995	(0.485)	49315	1000.00	1000
27 Propionitrile	54	2.850	2.847	(0.693)	909	50.0000	41.1(Q)
17 tert-Butyl Alcohol	59	1.914	1.911	(0.465)	1661	100.000	112(T)
18 1,2-Dichloroethene (trans)	96	2.024	2.026	(0.492)	19028	50.0000	52.9
19 Methyl-tert-butyl ether	73	2.024	2.026	(0.492)	67287	100.000	105

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	20 n-Hexane	57	2.207	2.209	(0.536)	31223	50.0000	56.8
	146 Chloroprene	53	2.380	2.382	(0.578)	37223	50.0000	53.3
	21 1,1-Dichloroethane	63	2.312	2.309	(0.562)	44039	50.0000	51.7
	23 Vinyl Acetate	43	2.343	2.340	(0.569)	107435	200.000	208
	25 1,2-Dichloroethene (cis)	96	2.788	2.790	(0.677)	24421	50.0000	49.6
	24 2,2-Dichloropropane	77	2.788	2.790	(0.677)	32026	50.0000	52.1
	26 2-Butanone	43	2.798	2.800	(0.680)	22952	250.000	253
	143 Methacrylonitrile	41	2.997	2.999	(0.728)	6683	250.000	260
	29 Bromochloromethane	49	3.012	3.015	(0.732)	14277	50.0000	58.3
	30 Tetrahydrofuran	42	3.075	3.083	(0.747)	3142	50.0000	32.9
	31 Chloroform	83	3.101	3.098	(0.754)	43881	50.0000	51.1
$	32 Dibromofluoromethane (S)	113	3.269	3.271	(0.794)	15266	50.0000	52.9
	33 1,1,1-Trichloroethane	97	3.300	3.297	(0.802)	36715	50.0000	51.1
	139 Cyclohexane	56	3.363	3.370	(0.817)	38597	50.0000	51.0
	37 Isobutyl alcohol	43	3.881	3.883	(0.943)	16817	50.0000	56.6
	36 1,1-Dichloropropene	75	3.494	3.496	(0.849)	35720	50.0000	51.9
	35 Carbon Tetrachloride	117	3.494	3.496	(0.849)	27298	50.0000	55.8
	144 isopropyl acetate	61	1.046	1.043	(0.254)	1550	50.0000	40.4(Q)
	147 2,2,4-Trimethylpentane	57	3.881	3.883	(0.943)	98852	50.0000	55.8
	38 Benzene	78	3.745	3.752	(0.910)	99337	50.0000	53.2
	39 1,2-Dichloroethane	62	3.766	3.768	(0.915)	23534	50.0000	52.2
*	40 Fluorobenzene	96	4.116	4.118	(1.000)	64256	50.0000	
	41 Trichloroethene	95	4.576	4.579	(1.112)	29298	50.0000	53.0
	140 Methylcyclohexane	55	4.801	4.798	(1.166)	36118	50.0000	51.4
	42 1,2-Dichloropropane	63	4.833	4.830	(1.174)	23085	50.0000	51.1
	43 Dibromomethane	93	4.963	4.966	(1.206)	11793	50.0000	52.5
	44 Methyl methacrylate	69	5.031	5.028	(1.222)	10571	50.0000	53.3
	45 Bromodichloromethane	83	5.167	5.170	(1.255)	30524	50.0000	52.9
	46 2-Chloroethyl vinyl ether	63	5.549	5.551	(0.761)	8344	100.000	107
	47 cis-1,3-Dichloropropene	75	5.685	5.687	(0.779)	37208	50.0000	54.6
	48 4-Methyl-2-Pentanone	43	5.879	5.876	(0.806)	63474	250.000	246
$	49 Toluene-d8	98	5.973	5.975	(0.819)	64487	50.0000	48.2
	50 Toluene	91	6.046	6.043	(0.829)	115339	50.0000	54.2
	51 trans-1,3-Dichloropropene	75	6.302	6.305	(0.864)	28758	50.0000	52.2
	52 Ethyl Methacrylate	69	6.438	6.441	(0.882)	23972	50.0000	54.0
	53 1,1,2-Trichloroethane	83	6.480	6.482	(0.888)	16463	50.0000	52.0
	54 Tetrachloroethene	166	6.611	6.608	(0.906)	37723	50.0000	57.0
	55 1,3-Dichloropropane	76	6.632	6.634	(0.909)	31029	50.0000	59.8
	56 2-Hexanone	43	6.742	6.739	(0.924)	49739	250.000	263
	57 Dibromochloromethane	129	6.830	6.833	(0.936)	18913	50.0000	52.2
	58 1,2-Dibromoethane	107	6.914	6.911	(0.948)	17708	50.0000	56.2
*	59 Chlorobenzene-d5	117	7.296	7.298	(1.000)	57810	50.0000	
	60 Chlorobenzene	112	7.317	7.319	(1.003)	74074	50.0000	51.7
	61 1,1,1,2-Tetrachloroethane	131	7.390	7.387	(1.013)	22994	50.0000	56.0
	62 Ethylbenzene	106	7.411	7.413	(1.016)	40669	50.0000	52.1
	63 m&p-Xylene	106	7.500	7.502	(1.028)	100953	100.000	112
	65 o-Xylene	106	7.772	7.774	(1.065)	50367	50.0000	50.4
	66 Styrene	104	7.782	7.785	(1.067)	81675	50.0000	53.3
	67 Bromoform	173	7.897	7.900	(0.898)	11424	50.0000	52.3
	68 Isopropylbenzene	105	8.018	8.020	(1.099)	145199	50.0000	54.8
	69 trans-1,4-Dichloro-2-butene	53	8.243	8.240	(1.130)	4788	50.0000	53.2(Q)
$	70 4-Bromofluorobenzene	95	8.112	8.114	(1.112)	27529	50.0000	50.0
	72 1,1,2,2-Tetrachloroethane	83	8.211	8.208	(0.934)	23362	50.0000	58.2
	71 Bromobenzene	77	8.201	8.198	(1.124)	58408	50.0000	57.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.227	8.229	(0.936)	23110	50.0000	55.2
74 n-Propylbenzene	91	8.274	8.276	(0.941)	168985	50.0000	52.8
75 2-Chlorotoluene	91	8.321	8.323	(0.946)	98364	50.0000	53.4
76 4-Chlorotoluene	126	8.321	8.323	(0.946)	31858	50.0000	52.8
77 1,3,5-Trimethylbenzene	105	8.379	8.381	(0.953)	110420	50.0000	54.0
78 tert-Butylbenzene	119	8.572	8.569	(0.975)	123740	50.0000	53.6
79 1,2,4-Trimethylbenzene	105	8.598	8.595	(0.978)	108528	50.0000	53.1
80 sec-Butylbenzene	105	8.692	8.695	(0.989)	156265	50.0000	60.6
81 1,3-Dichlorobenzene	146	8.755	8.757	(0.996)	63223	50.0000	59.4
83 p-Isopropyltoluene	119	8.776	8.773	(0.998)	117889	50.0000	53.8
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.794	(1.000)	26911	50.0000	
84 1,4-Dichlorobenzene	146	8.807	8.805	(1.002)	58020	50.0000	57.4
86 n-Butylbenzene	91	8.996	8.993	(1.023)	132406	50.0000	54.0
85 1,2-Dichlorobenzene	146	9.011	9.008	(1.025)	54575	50.0000	52.4
88 1,2,4-Trichlorobenzene	180	9.827	9.830	(1.118)	46453	50.0000	55.5
91 1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	36899	50.0000	55.1
87 1,2-Dibromo-3-chloropropane	155	9.409	9.411	(1.070)	2961	50.0000	51.1
89 Hexachlorobutadiene	225	9.911	9.908	(1.127)	35576	50.0000	58.3
90 Naphthalene	128	9.958	9.960	(1.133)	64909	50.0000	55.7
92 2,methyl-naphthalene	142	10.580	10.583	(1.203)	37281	50.0000	52.1

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b06.d
Lab Smp Id: 50ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 50ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	64256	0.00
59 Chlorobenzene-d5	57810	28905	115620	57810	0.00
82 1,4-Dichlorobenze	26911	13456	53822	26911	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.00
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.00
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	45.2	
74-87-3	Chloromethane	42.3	
75-01-4	Vinyl Chloride	40.6	
74-83-9	Bromomethane	39.7	
75-00-3	Chloroethane	42.4	
75-69-4	Trichlorofluoromethane	46.8	
354-23-4	1,2-dichlorotrifluoroethane	53.8	
60-29-7	Diethyl ether	55.1	
107-02-8	Acrolein	826	
75-35-4	1,1-Dichloroethene	54.0	
76-13-1	1,1,2trichlorotrifluoroethan	53.4	
67-64-1	Acetone	277	
	Iodomethane	109	
75-05-8	Acetonitrile	1110	
75-15-0	Carbon Disulfide	114	
79-20-9	Methyl Acetate	54.0	
107-05-1	allyl chloride	111	
75-09-2	Methylene Chloride	52.2	
107-13-1	Acrylonitrile	1000	
107-12-0	Propionitrile	41.1	
75-65-0	tert-Butyl Alcohol	112	
156-60-5	1,2-Dichloroethene (trans)	52.9	
1634-04-4	Methyl-tert-butyl ether	105	
	n-Hexane	56.8	
126-99-8	Chloroprene	53.3	
75-34-3	1,1-Dichloroethane	51.7	
108-05-4	Vinyl Acetate	208	
156-59-2	1,2-Dichloroethene (cis)	49.6	
594-20-7	2,2-Dichloropropane	52.1	
78-93-3	2-Butanone	253	
126-98-7	Methacrylonitrile	260	
74-97-5	Bromochloromethane	58.3	
	Tetrahydrofuran	32.9	
67-66-3	Chloroform	51.1	
71-55-6	1,1,1-Trichloroethane	51.1	
110-82-7	Cyclohexane	51.0	
78-83-1	Isobutyl alcohol	56.6	
563-58-6	1,1-Dichloropropene	51.9	
56-23-5	Carbon Tetrachloride	55.8	
108-21-4	isopropyl acetate	40.4	
540-84-1	2,2,4-Trimethylpentane	55.8	
71-43-2	Benzene	53.2	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	52.2	
79-01-6	Trichloroethene	53.0	
108-87-2	Methylcyclohexane	51.4	
78-87-5	1,2-Dichloropropane	51.1	
74-95-3	Dibromomethane	52.5	
80-62-6	Methyl methacrylate	53.3	
75-27-4	Bromodichloromethane	52.9	
110-75-8	2-Chloroethyl vinyl ether	107	
10061-01-5	cis-1,3-Dichloropropene	54.6	
108-10-1	4-Methyl-2-Pentanone	246	
108-88-3	Toluene	54.2	
10061-02-6	trans-1,3-Dichloropropene	52.2	
	Ethyl Methacrylate	54.0	
79-00-5	1,1,2-Trichloroethane	52.0	
127-18-4	Tetrachloroethene	57.0	
142-28-9	1,3-Dichloropropane	59.8	
591-78-6	2-Hexanone	263	
124-48-1	Dibromochloromethane	52.2	
106-93-4	1,2-Dibromoethane	56.2	
108-90-7	Chlorobenzene	51.7	
630-20-6	1,1,1,2-Tetrachloroethane	56.0	
100-41-4	Ethylbenzene	52.1	
7816-60-0	m&p-Xylene	112	
95-47-6	o-Xylene	50.4	
100-42-5	Styrene	53.3	
75-25-2	Bromoform	52.3	
98-82-8	Isopropylbenzene	54.8	
	trans-1,4-Dichloro-2-butene	53.2	
79-34-5	1,1,2,2-Tetrachloroethane	58.2	
108-86-1	Bromobenzene	57.7	
96-18-4	1,2,3-Trichloropropane	55.2	
103-65-1	n-Propylbenzene	52.8	
95-49-8	2-Chlorotoluene	53.4	
106-43-4	4-Chlorotoluene	52.8	
108-67-8	1,3,5-Trimethylbenzene	54.0	
98-06-6	tert-Butylbenzene	53.6	
95-63-6	1,2,4-Trimethylbenzene	53.1	
135-98-8	sec-Butylbenzene	60.6	
541-73-1	1,3-Dichlorobenzene	59.4	
99-87-6	p-Isopropyltoluene	53.8	
106-46-7	1,4-Dichlorobenzene	57.4	
104-51-8	n-Butylbenzene	54.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

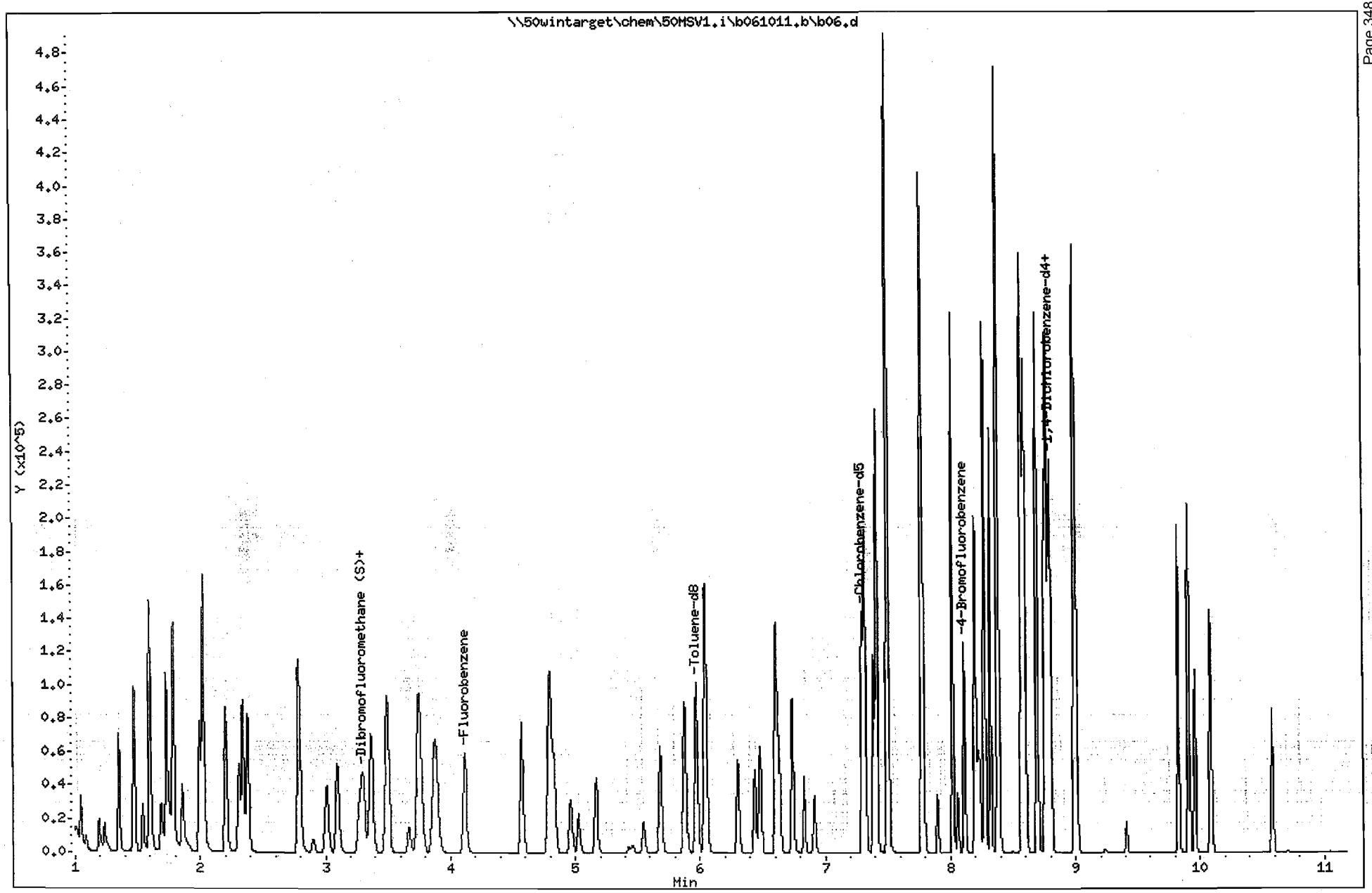
Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1	1,2-Dichlorobenzene	52.4	
120-82-1	1,2,4-Trichlorobenzene	55.5	
87-61-6	1,2,3-Trichlorobenzene	55.1	
96-12-8	1,2-Dibromo-3-chloropropane	51.1	
87-68-3	Hexachlorobutadiene	58.3	
91-20-3	Naphthalene	55.7	
	2,methyl-naphthalene	52.1	
1868-53-7	Dibromofluoromethane (S)	52.9	
2037-26-5	Toluene-d8	48.2	
460-00-4	4-Bromofluorobenzene	50.0	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b06.d
Date : 10-JUN-2011 16:53
Client ID: 50ppb
Sample Info: 50ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b06.d

Date : 10-JUN-2011 16:53

Client ID: 50ppb

Instrument: 50MSV1.i

Sample Info: 50ppb

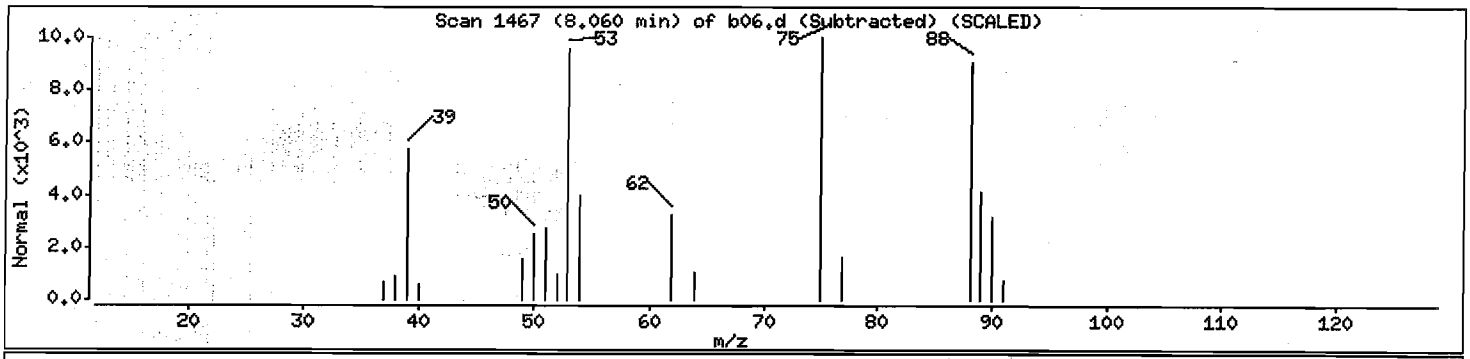
Purge Volume: 5.0

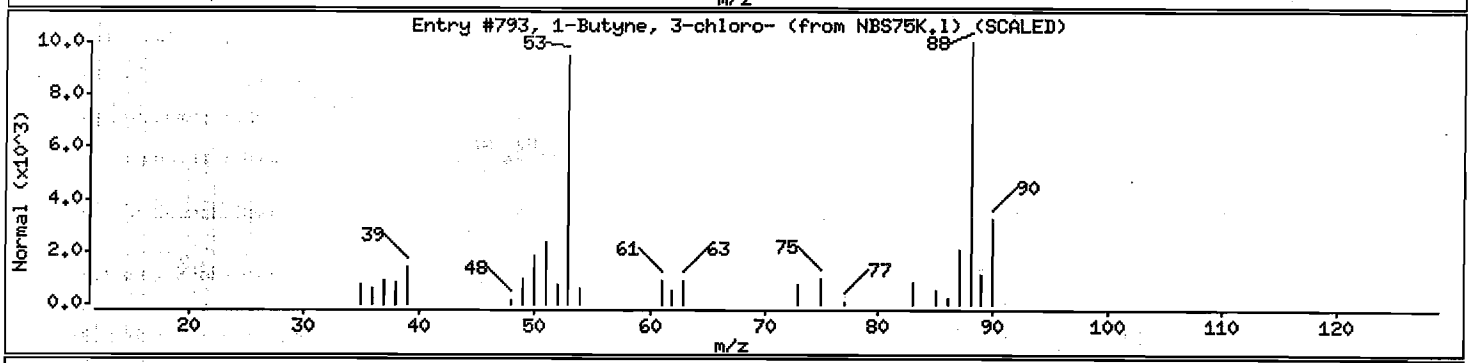
Operator: rsw

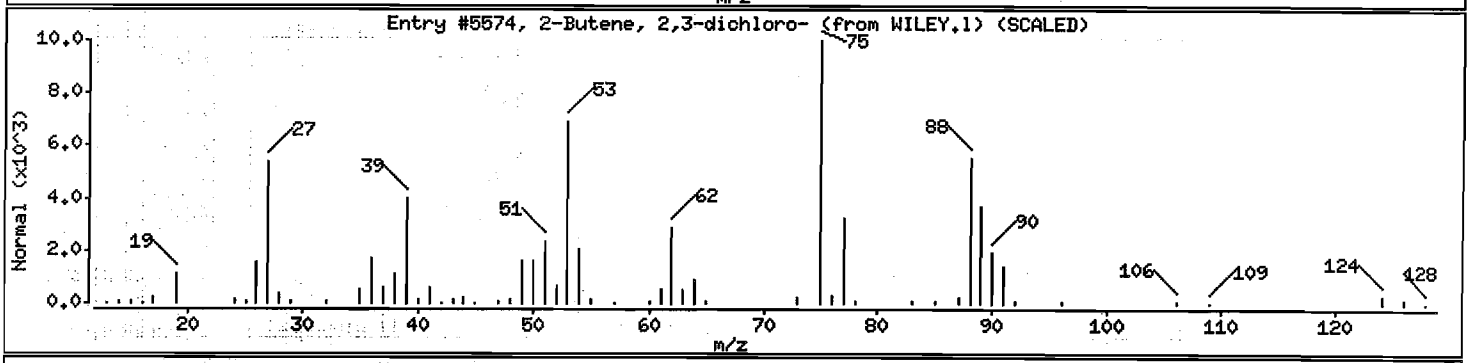
Column phase: DB-624

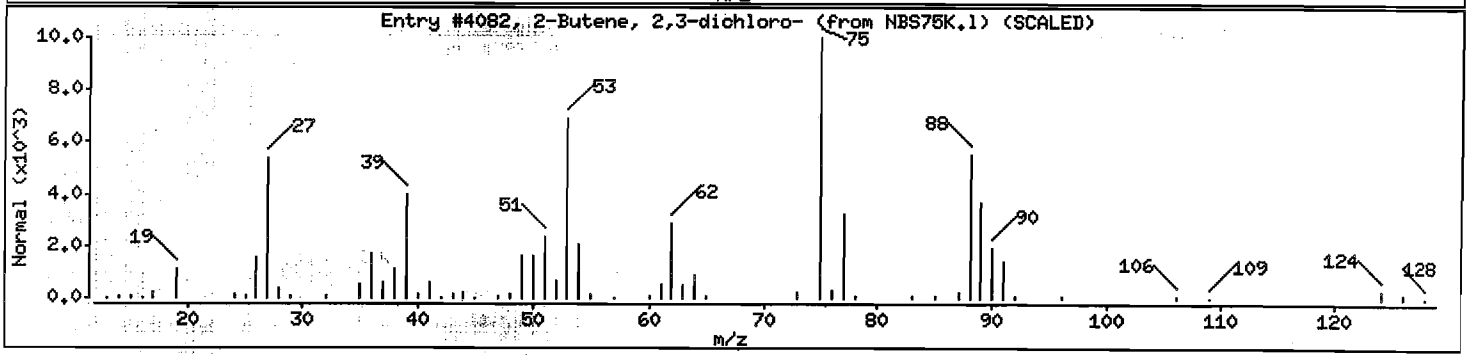
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Butyne, 3-chloro-	21020-24-6	NBS75K.l	793	52	C4H5Cl	88
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	50	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	NBS75K.l	4082	50	C4H6Cl2	124









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b07.d
Lab Smp Id: 150ppb Client Smp ID: 150ppb
Inj Date : 10-JUN-2011 17:26
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 150ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i Quant Type: ISTD
Cal Date : 02-JUN-2011 20:34 Cal File: b08.d
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.914	0.917	(0.222)	103670	150.000	185
2 Chloromethane	50	1.013	1.017	(0.246)	91888	150.000	184
3 Vinyl Chloride	62	1.045	1.043	(0.254)	76476	150.000	152
4 Bromomethane	94	1.186	1.189	(0.288)	43251	150.000	152
5 Chloroethane	64	1.228	1.231	(0.298)	33686	150.000	152
6 Trichlorofluoromethane	101	1.348	1.352	(0.327)	95378	150.000	178
28 1,2-dichlorotrifluoroethane	67	1.468	1.472	(0.356)	60191	150.000	148
7 Diethyl ether	74	1.479	1.477	(0.359)	16928	150.000	172
8 Acrolein	56	1.541	1.540	(0.374)	53669	3000.00	3040
9 1,1-Dichloroethene	96	1.599	1.603	(0.388)	45196	150.000	149
10 1,1,2trichlorotrifluoroethane	101	1.594	1.597	(0.387)	50828	150.000	145
11 Acetone	43	1.615	1.613	(0.392)	24185	750.000	739
12 Iodomethane	142	1.688	1.686	(0.410)	88009	300.000	297
142 Acetonitrile	41	1.787	1.786	(0.434)	111963	3000.00	2960
13 Carbon Disulfide	76	1.735	1.733	(0.421)	265233	300.000	294(M)
138 Methyl Acetate	43	1.792	1.791	(0.435)	13867	150.000	175
14 allyl chloride	41	1.787	1.786	(0.434)	111971	300.000	296(QM)
15 Methylene Chloride	84	1.860	1.854	(0.452)	40171	150.000	149
16 Acrylonitrile	53	1.996	1.995	(0.485)	124260	3000.00	3000
27 Propionitrile	54	2.854	2.847	(0.693)	3318	150.000	177(Q)
17 tert-Butyl Alcohol	59	1.918	1.911	(0.466)	4776	300.000	381(M)
18 1,2-Dichloroethene (trans)	96	2.028	2.026	(0.492)	44820	150.000	149
19 Methyl-tert-butyl ether	73	2.028	2.026	(0.492)	159543	300.000	298

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	20 n-Hexane	57	2.211	2.209	(0.537)	68009	150.000	148
	146 Chloroprene	53	2.383	2.382	(0.579)	87539	150.000	149
	21 1,1-Dichloroethane	63	2.315	2.309	(0.562)	108978	150.000	150
	23 Vinyl Acetate	43	2.347	2.340	(0.570)	261938	600.000	598
	25 1,2-Dichloroethene (cis)	96	2.791	2.790	(0.678)	62559	150.000	150
	24 2,2-Dichloropropane	77	2.791	2.790	(0.678)	83003	150.000	159
	26 2-Butanone	43	2.802	2.800	(0.680)	56764	750.000	749
	143 Methacrylonitrile	41	3.006	2.999	(0.730)	17245	750.000	793
	29 Bromochloromethane	49	3.016	3.015	(0.732)	29393	150.000	146
	30 Tetrahydrofuran	42	3.084	3.083	(0.749)	8482	150.000	105
	31 Chloroform	83	3.100	3.098	(0.752)	108462	150.000	150
$	32 Dibromofluoromethane (S)	113	3.278	3.271	(0.796)	12575	50.0000	51.3
	33 1,1,1-Trichloroethane	97	3.304	3.297	(0.802)	93174	150.000	153
	139 Cyclohexane	56	3.367	3.370	(0.817)	95235	150.000	149
	37 Isobutyl alcohol	43	3.884	3.883	(0.943)	37903	150.000	150
	36 1,1-Dichloropropene	75	3.497	3.496	(0.849)	86327	150.000	149
	35 Carbon Tetrachloride	117	3.497	3.496	(0.849)	69928	150.000	168
	144 isopropyl acetate	61	1.045	1.043	(0.254)	5979	150.000	184(Q)
	147 2,2,4-Trimethylpentane	57	3.879	3.883	(0.942)	220363	150.000	148
	38 Benzene	78	3.754	3.752	(0.911)	233386	150.000	149
	39 1,2-Dichloroethane	62	3.775	3.768	(0.916)	56810	150.000	149
*	40 Fluorobenzene	96	4.120	4.118	(1.000)	54505	50.0000	
	41 Trichloroethene	95	4.580	4.579	(1.112)	69893	150.000	149
	140 Methylcyclohexane	55	4.800	4.798	(1.165)	88499	150.000	149
	42 1,2-Dichloropropane	63	4.836	4.830	(1.174)	56801	150.000	150
	43 Dibromomethane	93	4.967	4.966	(1.206)	29256	150.000	154
	44 Methyl methacrylate	69	5.035	5.028	(1.222)	24970	150.000	148
	45 Bromodichloromethane	83	5.171	5.170	(1.255)	78289	150.000	160
	46 2-Chloroethyl vinyl ether	63	5.553	5.551	(0.761)	19617	300.000	325
	47 cis-1,3-Dichloropropene	75	5.689	5.687	(0.779)	97611	150.000	172
	48 4-Methyl-2-Pentanone	43	5.882	5.876	(0.806)	163888	750.000	750
$	49 Toluene-d8	98	5.977	5.975	(0.819)	55845	50.0000	48.3
	50 Toluene	91	6.050	6.043	(0.829)	268711	150.000	148
	51 trans-1,3-Dichloropropene	75	6.306	6.305	(0.864)	78672	150.000	171
	52 Ethyl Methacrylate	69	6.442	6.441	(0.883)	62447	150.000	172
	53 1,1,2-Trichloroethane	83	6.484	6.482	(0.888)	40379	150.000	149
	54 Tetrachloroethene	166	6.609	6.608	(0.905)	93885	150.000	173
	55 1,3-Dichloropropane	76	6.636	6.634	(0.909)	72777	150.000	173
	56 2-Hexanone	43	6.740	6.739	(0.923)	118696	750.000	745
	57 Dibromochloromethane	129	6.834	6.833	(0.936)	50567	150.000	166
	58 1,2-Dibromoethane	107	6.913	6.911	(0.947)	43598	150.000	170
*	59 Chlorobenzene-d5	117	7.300	7.298	(1.000)	49969	50.0000	
	60 Chlorobenzene	112	7.321	7.319	(1.003)	181970	150.000	149
	61 1,1,1,2-Tetrachloroethane	131	7.389	7.387	(1.012)	56125	150.000	165
	62 Ethylbenzene	106	7.415	7.413	(1.016)	98437	150.000	149
	63 m&p-Xylene	106	7.504	7.502	(1.028)	221572	300.000	295
	65 o-Xylene	106	7.776	7.774	(1.065)	127573	150.000	150
	66 Styrene	104	7.786	7.785	(1.067)	192735	150.000	149
	67 Bromoform	173	7.901	7.900	(0.898)	32779	150.000	175
	68 Isopropylbenzene	105	8.022	8.020	(1.099)	331048	150.000	148
	69 trans-1,4-Dichloro-2-butene	53	8.241	8.240	(1.129)	12430	150.000	170
$	70 4-Bromofluorobenzene	95	8.110	8.114	(1.111)	22601	50.0000	47.5
	72 1,1,2,2-Tetrachloroethane	83	8.210	8.208	(0.933)	55558	150.000	172
	71 Bromobenzene	77	8.199	8.198	(1.123)	139587	150.000	170

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.231	8.229	(0.936)	58109	150.000	169
74 n-Propylbenzene	91	8.278	8.276	(0.941)	402429	150.000	149
75 2-Chlorotoluene	91	8.325	8.323	(0.946)	232086	150.000	149
76 4-Chlorotoluene	126	8.325	8.323	(0.946)	76497	150.000	149
77 1,3,5-Trimethylbenzene	105	8.382	8.381	(0.953)	255834	150.000	148
78 tert-Butylbenzene	119	8.571	8.569	(0.974)	290724	150.000	149
79 1,2,4-Trimethylbenzene	105	8.597	8.595	(0.977)	256740	150.000	149
80 sec-Butylbenzene	105	8.696	8.695	(0.989)	359038	150.000	173
81 1,3-Dichlorobenzene	146	8.759	8.757	(0.996)	149725	150.000	174
83 p-Isopropyltoluene	119	8.775	8.773	(0.998)	274469	150.000	149
* 82 1,4-Dichlorobenzene-d4	152	8.796	8.794	(1.000)	23073	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.806	8.805	(1.001)	141113	150.000	173
86 n-Butylbenzene	91	8.994	8.993	(1.023)	309800	150.000	149
85 1,2-Dichlorobenzene	146	9.010	9.008	(1.024)	131087	150.000	149
88 1,2,4-Trichlorobenzene	180	9.826	9.830	(1.117)	118703	150.000	173
91 1,2,3-Trichlorobenzene	180	10.082	10.086	(1.146)	94787	150.000	174
87 1,2-Dibromo-3-chloropropane	155	9.413	9.411	(1.070)	8126	150.000	161
89 Hexachlorobutadiene	225	9.910	9.908	(1.127)	84283	150.000	169
90 Naphthalene	128	9.957	9.960	(1.132)	161582	150.000	172
92 2,methyl-naphthalene	142	10.579	10.583	(1.203)	99264	150.000	168

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b07.d
Lab Smp Id: 150ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 150ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	54505	-15.18
59 Chlorobenzene-d5	57810	28905	115620	49969	-13.56
82 1,4-Dichlorobenze	26911	13456	53822	23073	-14.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.09
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.05
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.04

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	185	
74-87-3	Chloromethane	184	
75-01-4	Vinyl Chloride	152	
74-83-9	Bromomethane	152	
75-00-3	Chloroethane	152	
75-69-4	Trichlorofluoromethane	178	
354-23-4	1,2-dichlorotrifluoroethane	148	
60-29-7	Diethyl ether	172	
107-02-8	Acrolein	3040	
75-35-4	1,1-Dichloroethene	149	
76-13-1	1,1,2trichlorotrifluoroethan	145	
67-64-1	Acetone	739	
	Iodomethane	297	
75-05-8	Acetonitrile	2960	
75-15-0	Carbon Disulfide	294	
79-20-9	Methyl Acetate	175	
107-05-1	allyl chloride	296	
75-09-2	Methylene Chloride	149	
107-13-1	Acrylonitrile	3000	
107-12-0	Propionitrile	177	
75-65-0	tert-Butyl Alcohol	381	
156-60-5	1,2-Dichloroethene (trans)	149	
1634-04-4	Methyl-tert-butyl ether	298	
	n-Hexane	148	
126-99-8	Chloroprene	149	
75-34-3	1,1-Dichloroethane	150	
108-05-4	Vinyl Acetate	598	
156-59-2	1,2-Dichloroethene (cis)	150	
594-20-7	2,2-Dichloropropane	159	
78-93-3	2-Butanone	749	
126-98-7	Methacrylonitrile	793	
74-97-5	Bromochloromethane	146	
	Tetrahydrofuran	105	
67-66-3	Chloroform	150	
71-55-6	1,1,1-Trichloroethane	153	
110-82-7	Cyclohexane	149	
78-83-1	Isobutyl alcohol	150	
563-58-6	1,1-Dichloropropene	149	
56-23-5	Carbon Tetrachloride	168	
108-21-4	isopropyl acetate	184	
540-84-1	2,2,4-Trimethylpentane	148	
71-43-2	Benzene	149	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	149	
79-01-6	Trichloroethene	149	
108-87-2	Methylcyclohexane	149	
78-87-5	1,2-Dichloropropane	150	
74-95-3	Dibromomethane	154	
80-62-6	Methyl methacrylate	148	
75-27-4	Bromodichloromethane	160	
110-75-8	2-Chloroethyl vinyl ether	325	
10061-01-5	cis-1,3-Dichloropropene	172	
108-10-1	4-Methyl-2-Pentanone	750	
108-88-3	Toluene	148	
10061-02-6	trans-1,3-Dichloropropene	171	
	Ethyl Methacrylate	172	
79-00-5	1,1,2-Trichloroethane	149	
127-18-4	Tetrachloroethene	173	
142-28-9	1,3-Dichloropropane	173	
591-78-6	2-Hexanone	745	
124-48-1	Dibromochloromethane	166	
106-93-4	1,2-Dibromoethane	170	
108-90-7	Chlorobenzene	149	
630-20-6	1,1,1,2-Tetrachloroethane	165	
100-41-4	Ethylbenzene	149	
7816-60-0	m&p-Xylene	295	
95-47-6	o-Xylene	150	
100-42-5	Styrene	149	
75-25-2	Bromoform	175	
98-82-8	Isopropylbenzene	148	
	trans-1,4-Dichloro-2-butene	170	
79-34-5	1,1,2,2-Tetrachloroethane	172	
108-86-1	Bromobenzene	170	
96-18-4	1,2,3-Trichloropropane	169	
103-65-1	n-Propylbenzene	149	
95-49-8	2-Chlorotoluene	149	
106-43-4	4-Chlorotoluene	149	
108-67-8	1,3,5-Trimethylbenzene	148	
98-06-6	tert-Butylbenzene	149	
95-63-6	1,2,4-Trimethylbenzene	149	
135-98-8	sec-Butylbenzene	173	
541-73-1	1,3-Dichlorobenzene	174	
99-87-6	p-Isopropyltoluene	149	
106-46-7	1,4-Dichlorobenzene	173	
104-51-8	n-Butylbenzene	149	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

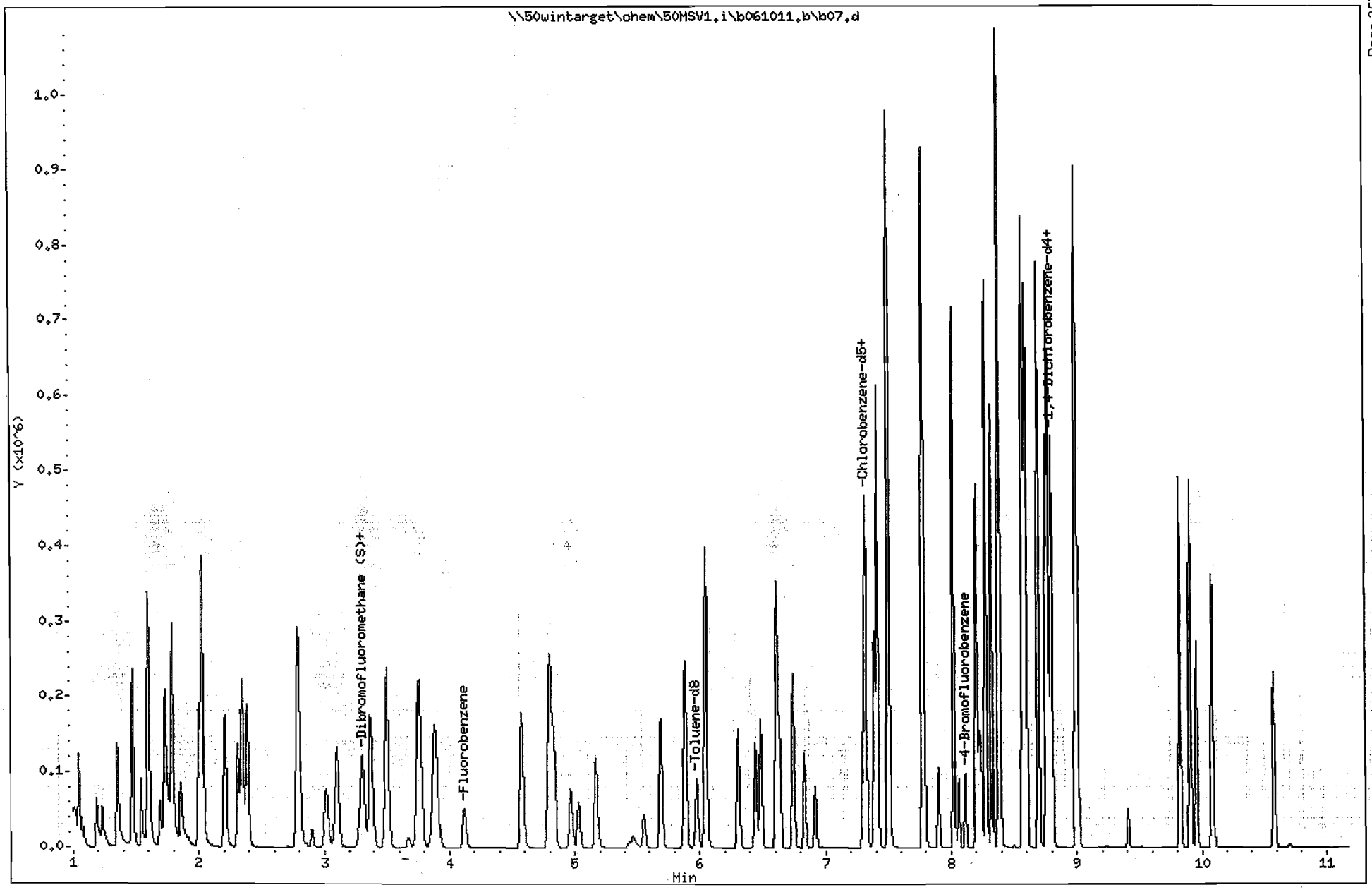
Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1	1,2-Dichlorobenzene	149	
120-82-1	1,2,4-Trichlorobenzene	173	
87-61-6	1,2,3-Trichlorobenzene	174	
96-12-8	1,2-Dibromo-3-chloropropane	161	
87-68-3	Hexachlorobutadiene	169	
91-20-3	Naphthalene	172	
	2,methyl-naphthalene	168	
1868-53-7	Dibromofluoromethane (S)	51.3	
2037-26-5	Toluene-d8	48.3	
460-00-4	4-Bromofluorobenzene	47.5	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b07.d
Date : 10-JUN-2011 17:26
Client ID: 150ppb
Sample Info: 150ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b07.d

Date : 10-JUN-2011 17:26

Client ID: 150ppb

Instrument: 50MSV1.i

Sample Info: 150ppb

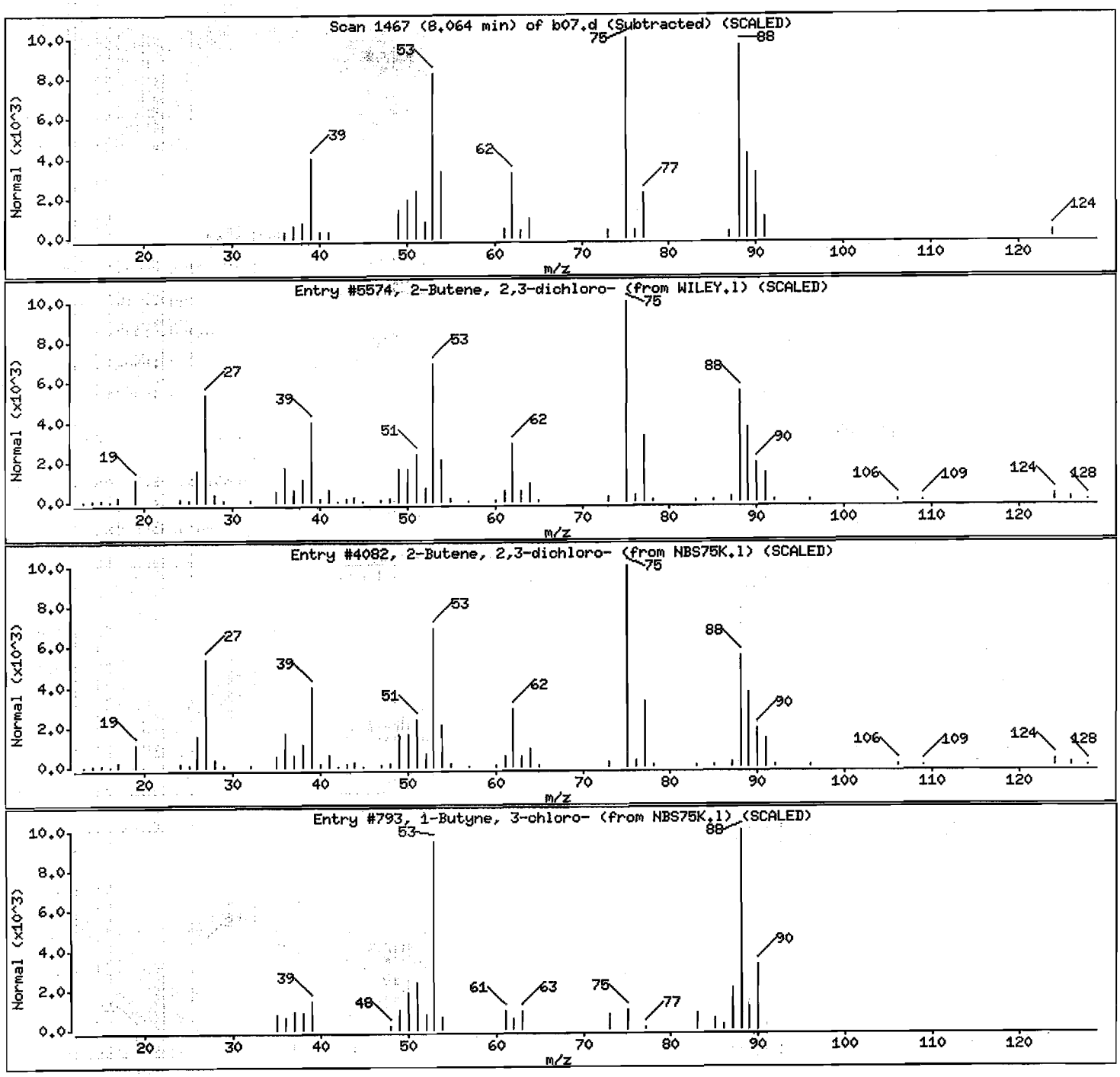
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	87	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	NBS75K.l	4082	87	C4H6Cl2	124
1-Butyne, 3-chloro-	21020-24-6	NBS75K.l	793	52	C4H5Cl	88



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b08.d
Lab Smp Id: 300ppb Client Smp ID: 300ppb
Inj Date : 10-JUN-2011 18:03
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 300ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i Quant Type: ISTD
Cal Date : 02-JUN-2011 20:34 Cal File: b08.d
Als bottle: 18 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.916	0.917	(0.223)	204502	300.000	300
2 Chloromethane	50	0.994	1.017	(0.242)	206762	300.000	340
3 Vinyl Chloride	62	1.041	1.043	(0.253)	142328	300.000	231
4 Bromomethane	94	1.188	1.189	(0.289)	55506	300.000	160
5 Chloroethane	64	1.219	1.231	(0.296)	60806	300.000	224
6 Trichlorofluoromethane	101	1.345	1.352	(0.327)	182953	300.000	282
28 1,2-dichlorotrifluoroethane	67	1.465	1.472	(0.356)	114746	300.000	234
7 Diethyl ether	74	1.476	1.477	(0.359)	33678	300.000	286
8 Acrolein	56	1.538	1.540	(0.374)	99634	6000.00	4620
9 1,1-Dichloroethene	96	1.596	1.603	(0.388)	82278	300.000	223
10 1,1,2trichlorotrifluoroethane	101	1.591	1.597	(0.386)	94647	300.000	222
11 Acetone	43	1.617	1.613	(0.393)	45422	1500.00	1150
12 Iodomethane	142	1.685	1.686	(0.409)	138739	600.000	384
142 Acetonitrile	41	1.784	1.786	(0.433)	186736	6000.00	4070
13 Carbon Disulfide	76	1.727	1.733	(0.419)	471671	600.000	433(M)
138 Methyl Acetate	43	1.789	1.791	(0.435)	26922	300.000	284
14 allyl chloride	41	1.784	1.786	(0.433)	184459	600.000	402(M)
15 Methylene Chloride	84	1.852	1.854	(0.450)	77139	300.000	236
16 Acrylonitrile	53	1.999	1.995	(0.486)	232361	6000.00	4620
17 tert-Butyl Alcohol	59	1.920	1.911	(0.466)	9499	600.000	624(M)
18 1,2-Dichloroethene (trans)	96	2.025	2.026	(0.492)	83025	300.000	227
19 Methyl-tert-butyl ether	73	2.025	2.026	(0.492)	293547	600.000	453
20 n-Hexane	57	2.203	2.209	(0.535)	122281	300.000	219

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
146 Chloroprene	53	2.380	2.382	(0.578)	155849	300.000	218
21 1,1-Dichloroethane	63	2.307	2.309	(0.560)	201511	300.000	227
23 Vinyl Acetate	43	2.344	2.340	(0.569)	439948	1200.00	826
25 1,2-Dichloroethene (cis)	96	2.783	2.790	(0.676)	117074	300.000	231
24 2,2-Dichloropropane	77	2.783	2.790	(0.676)	161402	300.000	254
26 2-Butanone	43	2.804	2.800	(0.681)	103078	1500.00	1120
143 Methacrylonitrile	41	3.003	2.999	(0.729)	32997	1500.00	1250
29 Bromochloromethane	49	3.013	3.015	(0.732)	48634	300.000	201 (M)
30 Tetrahydrofuran	42	3.081	3.083	(0.748)	14185	300.000	144
31 Chloroform	83	3.097	3.098	(0.752)	200528	300.000	228
$ 32 Dibromofluoromethane (S)	113	3.275	3.271	(0.795)	15058	50.0000	50.6
33 1,1,1-Trichloroethane	97	3.301	3.297	(0.802)	184598	300.000	249
139 Cyclohexane	56	3.369	3.370	(0.818)	180559	300.000	233
37 Isobutyl alcohol	43	3.881	3.883	(0.943)	70876	300.000	232
36 1,1-Dichloropropene	75	3.489	3.496	(0.848)	159922	300.000	228
35 Carbon Tetrachloride	117	3.494	3.496	(0.849)	136568	300.000	271
144 isopropyl acetate	61	1.041	1.043	(0.253)	11460	300.000	290
147 2,2,4-Trimethylpentane	57	3.876	3.883	(0.942)	412155	300.000	228
38 Benzene	78	3.745	3.752	(0.910)	454552	300.000	239
39 1,2-Dichloroethane	62	3.766	3.768	(0.915)	105293	300.000	228
* 40 Fluorobenzene	96	4.117	4.118	(1.000)	66250	50.0000	
41 Trichloroethene	95	4.572	4.579	(1.111)	135287	300.000	237
140 Methylcyclohexane	55	4.797	4.798	(1.165)	167130	300.000	232
42 1,2-Dichloropropane	63	4.828	4.830	(1.173)	108625	300.000	236
43 Dibromomethane	93	4.964	4.966	(1.206)	56378	300.000	243
44 Methyl methacrylate	69	5.027	5.028	(1.221)	51369	300.000	251
45 Bromodichloromethane	83	5.168	5.170	(1.255)	155033	300.000	260
46 2-Chloroethyl vinyl ether	63	5.550	5.551	(0.761)	39567	600.000	585
47 cis-1,3-Dichloropropene	75	5.686	5.687	(0.779)	184378	300.000	286
48 4-Methyl-2-Pentanone	43	5.879	5.876	(0.806)	295751	1500.00	1180
$ 49 Toluene-d8	98	5.973	5.975	(0.819)	66225	50.0000	49.8
50 Toluene	91	6.047	6.043	(0.829)	466996	300.000	225
51 trans-1,3-Dichloropropene	75	6.303	6.305	(0.864)	151287	300.000	287
52 Ethyl Methacrylate	69	6.439	6.441	(0.882)	118101	300.000	286
53 1,1,2-Trichloroethane	83	6.481	6.482	(0.888)	73809	300.000	238
54 Tetrachloroethene	166	6.612	6.608	(0.906)	175489	300.000	284
55 1,3-Dichloropropane	76	6.632	6.634	(0.909)	135946	300.000	284
56 2-Hexanone	43	6.742	6.739	(0.924)	206595	1500.00	1130
57 Dibromochloromethane	129	6.831	6.833	(0.936)	100923	300.000	290
58 1,2-Dibromoethane	107	6.915	6.911	(0.948)	83332	300.000	287
* 59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	57478	50.0000	
60 Chlorobenzene	112	7.318	7.319	(1.003)	330317	300.000	236
61 1,1,1,2-Tetrachloroethane	131	7.386	7.387	(1.012)	112635	300.000	290
62 Ethylbenzene	106	7.412	7.413	(1.016)	182318	300.000	241
63 m&p-Xylene	106	7.501	7.502	(1.028)	401714	600.000	468
65 o-Xylene	106	7.773	7.774	(1.065)	226380	300.000	232
66 Styrene	104	7.783	7.785	(1.067)	334135	300.000	225
67 Bromoform	173	7.898	7.900	(0.898)	67463	300.000	312
68 Isopropylbenzene	105	8.018	8.020	(1.099)	576622	300.000	225
69 trans-1,4-Dichloro-2-butene	53	8.243	8.240	(1.130)	23843	300.000	288
$ 70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	27091	50.0000	49.5
72 1,1,2,2-Tetrachloroethane	83	8.212	8.208	(0.934)	105405	300.000	285
71 Bromobenzene	77	8.202	8.198	(1.124)	267656	300.000	287
73 1,2,3-Trichloropropane	75	8.228	8.229	(0.936)	113122	300.000	288

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.280	8.276	(0.942)	697228	300.000	224
75 2-Chlorotoluene	91	8.327	8.323	(0.947)	416560	300.000	232
76 4-Chlorotoluene	126	8.327	8.323	(0.947)	140169	300.000	237
77 1,3,5-Trimethylbenzene	105	8.379	8.381	(0.953)	446427	300.000	225
78 tert-Butylbenzene	119	8.573	8.569	(0.975)	531139	300.000	236
79 1,2,4-Trimethylbenzene	105	8.599	8.595	(0.978)	432859	300.000	218
80 sec-Butylbenzene	105	8.693	8.695	(0.989)	668631	300.000	283
81 1,3-Dichlorobenzene	146	8.756	8.757	(0.996)	277001	300.000	283
83 p-Isopropyltoluene	119	8.777	8.773	(0.998)	489291	300.000	230
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.794	(1.000)	26670	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	265509	300.000	285
86 n-Butylbenzene	91	8.991	8.993	(1.023)	545959	300.000	227
85 1,2-Dichlorobenzene	146	9.007	9.008	(1.024)	240581	300.000	238
88 1,2,4-Trichlorobenzene	180	9.828	9.830	(1.118)	223829	300.000	285
91 1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	177787	300.000	285
87 1,2-Dibromo-3-chloropropane	155	9.410	9.411	(1.070)	17250	300.000	294
89 Hexachlorobutadiene	225	9.912	9.908	(1.127)	163097	300.000	287
90 Naphthalene	128	9.959	9.960	(1.133)	307897	300.000	286
92 2,methyl-naphthalene	142	10.581	10.583	(1.203)	195535	300.000	289

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b08.d
Lab Smp Id: 300ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 300ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	66250	3.10
59 Chlorobenzene-d5	57810	28905	115620	57478	-0.57
82 1,4-Dichlorobenze	26911	13456	53822	26670	-0.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.02
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.01
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.01

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	300	
74-87-3	Chloromethane	340	
75-01-4	Vinyl Chloride	231	
74-83-9	Bromomethane	160	
75-00-3	Chloroethane	224	
75-69-4	Trichlorofluoromethane	282	
354-23-4	1,2-dichlorotrifluoroethane	234	
60-29-7	Diethyl ether	286	
107-02-8	Acrolein	4620	
75-35-4	1,1-Dichloroethene	223	
76-13-1	1,1,2trichlorotrifluoroethan	222	
67-64-1	Acetone	1150	
	Iodomethane	384	
75-05-8	Acetonitrile	4070	
75-15-0	Carbon Disulfide	433	
79-20-9	Methyl Acetate	284	
107-05-1	allyl chloride	402	
75-09-2	Methylene Chloride	236	
107-13-1	Acrylonitrile	4620	
75-65-0	tert-Butyl Alcohol	624	
156-60-5	1,2-Dichloroethene (trans)	227	
1634-04-4	Methyl-tert-butyl ether	453	
	n-Hexane	219	
126-99-8	Chloroprene	218	
75-34-3	1,1-Dichloroethane	227	
108-05-4	Vinyl Acetate	826	
156-59-2	1,2-Dichloroethene (cis)	231	
594-20-7	2,2-Dichloropropane	254	
78-93-3	2-Butanone	1120	
126-98-7	Methacrylonitrile	1250	
74-97-5	Bromochloromethane	201	
	Tetrahydrofuran	144	
67-66-3	Chloroform	228	
71-55-6	1,1,1-Trichloroethane	249	
110-82-7	Cyclohexane	233	
78-83-1	Isobutyl alcohol	232	
563-58-6	1,1-Dichloropropene	228	
56-23-5	Carbon Tetrachloride	271	
108-21-4	isopropyl acetate	290	
540-84-1	2,2,4-Trimethylpentane	228	
71-43-2	Benzene	239	
107-06-2	1,2-Dichloroethane	228	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	237	
108-87-2	Methylcyclohexane	232	
78-87-5	1,2-Dichloropropane	236	
74-95-3	Dibromomethane	243	
80-62-6	Methyl methacrylate	251	
75-27-4	Bromodichloromethane	260	
110-75-8	2-Chloroethyl vinyl ether	585	
10061-01-5	cis-1,3-Dichloropropene	286	
108-10-1	4-Methyl-2-Pentanone	1180	
108-88-3	Toluene	225	
10061-02-6	trans-1,3-Dichloropropene	287	
	Ethyl Methacrylate	286	
79-00-5	1,1,2-Trichloroethane	238	
127-18-4	Tetrachloroethene	284	
142-28-9	1,3-Dichloropropane	284	
591-78-6	2-Hexanone	1130	
124-48-1	Dibromochloromethane	290	
106-93-4	1,2-Dibromoethane	287	
108-90-7	Chlorobenzene	236	
630-20-6	1,1,1,2-Tetrachloroethane	290	
100-41-4	Ethylbenzene	241	
7816-60-0	m&p-Xylene	468	
95-47-6	o-Xylene	232	
100-42-5	Styrene	225	
75-25-2	Bromoform	312	
98-82-8	Isopropylbenzene	225	
	trans-1,4-Dichloro-2-butene	288	
79-34-5	1,1,2,2-Tetrachloroethane	285	
108-86-1	Bromobenzene	287	
96-18-4	1,2,3-Trichloropropane	288	
103-65-1	n-Propylbenzene	224	
95-49-8	2-Chlorotoluene	232	
106-43-4	4-Chlorotoluene	237	
108-67-8	1,3,5-Trimethylbenzene	225	
98-06-6	tert-Butylbenzene	236	
95-63-6	1,2,4-Trimethylbenzene	218	
135-98-8	sec-Butylbenzene	283	
541-73-1	1,3-Dichlorobenzene	283	
99-87-6	p-Isopropyltoluene	230	
106-46-7	1,4-Dichlorobenzene	285	
104-51-8	n-Butylbenzene	227	
95-50-1	1,2-Dichlorobenzene	238	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	285	
87-61-6	1,2,3-Trichlorobenzene	285	
96-12-8	1,2-Dibromo-3-chloropropane	294	
87-68-3	Hexachlorobutadiene	287	
91-20-3	Naphthalene	286	
	2,methyl-naphthalene	289	
1868-53-7	Dibromofluoromethane (S)	50.6	
2037-26-5	Toluene-d8	49.8	
460-00-4	4-Bromofluorobenzene	49.5	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b08.d

Page 8

Date : 10-JUN-2011 18:03

Client ID: 300ppb

Instrument: 50MSV1.i

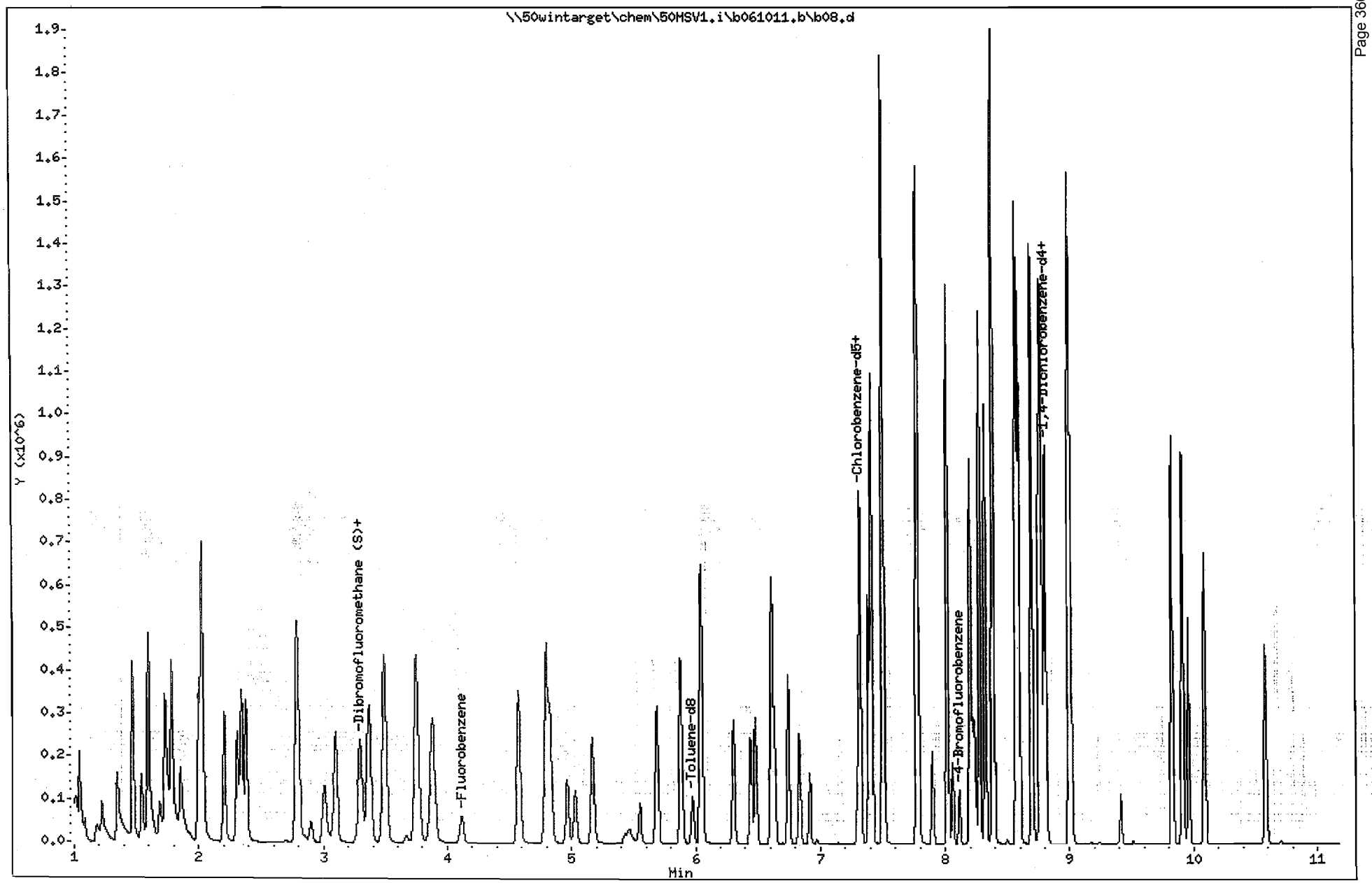
Sample Info: 300ppb

Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b08.d

Date : 10-JUN-2011 18:03

Client ID: 300ppb

Instrument: 50MSV1.i

Sample Info: 300ppb

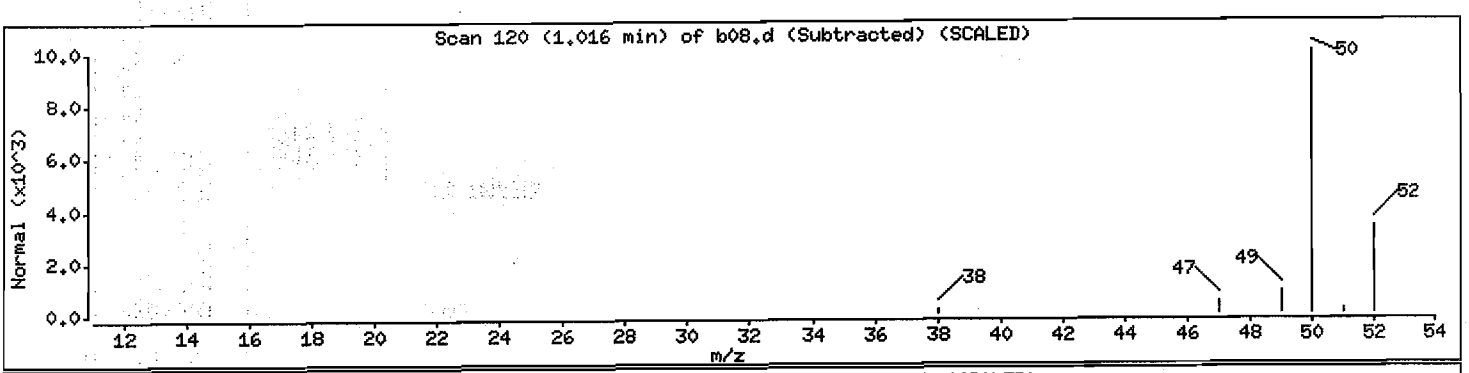
Purge Volume: 5.0

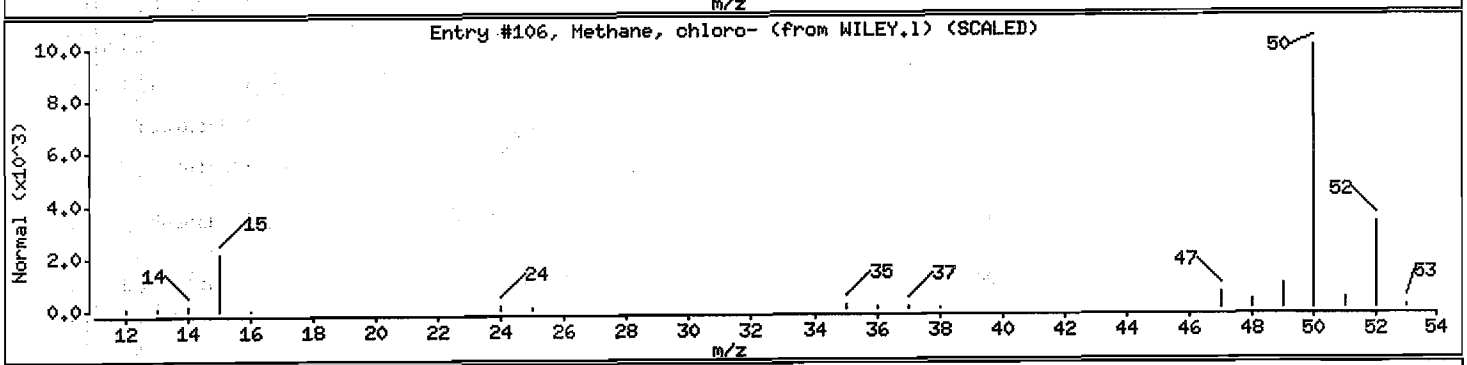
Operator: rsw

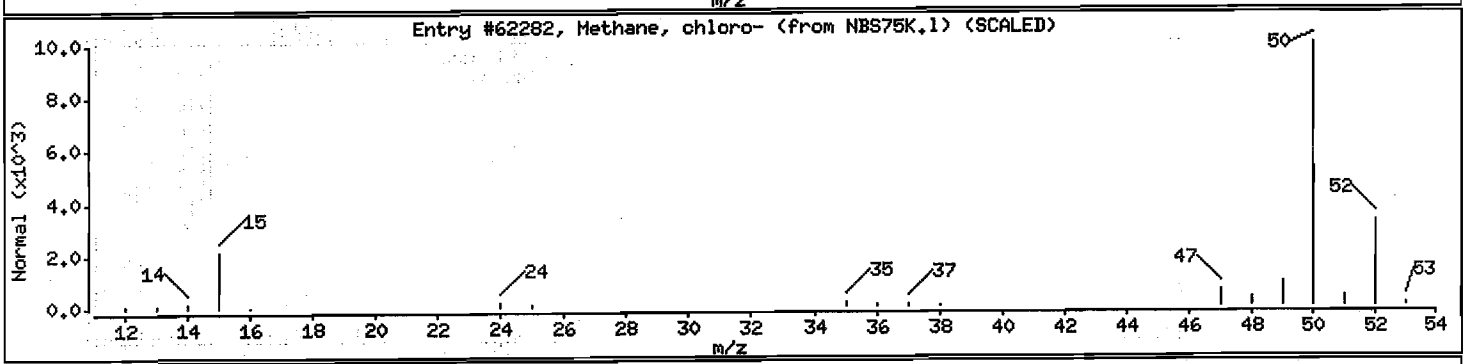
Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Methane, chloro-	74-87-3	WILEY.l	106	83	CH3Cl	50
Methane, chloro-	74-87-3	NBS75K.l	62282	83	CH3Cl	50







Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\b09icv.d
Lab Smp Id: icv 34D-379 Client Smp ID: icv
Inj Date : 10-JUN-2011 18:37
Operator : rsw Inst ID: 50MSV1.i
Smp Info : icv 34D-379
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 11-Jun-2011 15:12 50MSV1.i Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 20 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.916	0.917	(0.222)	37243	52.4024	52.4
2 Chloromethane	50	0.994	1.017	(0.241)	30645	48.2569	48.2
3 Vinyl Chloride	62	1.047	1.043	(0.254)	27199	45.6462	45.6
4 Bromomethane	94	1.193	1.189	(0.290)	13648	42.4746	42.5
5 Chloroethane	64	1.235	1.231	(0.300)	12181	45.5381	45.5
6 Trichlorofluoromethane	101	1.350	1.352	(0.328)	32085	47.3451	47.3
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	24002	45.7169	45.7
7 Diethyl ether	74	1.481	1.477	(0.359)	5829	42.6956	42.7
8 Acrolein	56	1.544	1.540	(0.375)	33775	1531.73	1530(R)
9 1,1-Dichloroethene	96	1.601	1.603	(0.388)	16757	42.4958	42.5
10 1,1,2trichlorotrifluoroethane	101	1.596	1.597	(0.387)	17823	40.1338	40.1
11 Acetone	43	1.617	1.613	(0.392)	9356	209.641	210
12 Iodomethane	142	1.690	1.686	(0.410)	27415	76.9302	76.9
142 Acetonitrile	41	1.789	1.786	(0.434)	38357	777.279	777
13 Carbon Disulfide	76	1.732	1.733	(0.420)	138335	117.921	118
138 Methyl Acetate	43	1.795	1.791	(0.435)	6876	62.8990	62.9
14 allyl chloride	41	1.789	1.786	(0.434)	38355	77.7193	77.7(M)
15 Methylene Chloride	84	1.857	1.854	(0.451)	14767	42.0847	42.1
16 Acrylonitrile	53	1.999	1.995	(0.485)	42828	805.672	806
17 tert-Butyl Alcohol	59	1.915	1.911	(0.465)	1599	100.674	101
18 1,2-Dichloroethene (trans)	96	2.030	2.026	(0.493)	17053	43.8831	43.9
19 Methyl-tert-butyl ether	73	2.030	2.026	(0.493)	57551	82.8043	82.8
20 n-Hexane	57	2.208	2.209	(0.536)	26204	44.1210	44.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	146 Chloroprene	53	2.386	2.382	(0.579)	23533	31.0159	31.0
	21 1,1-Dichloroethane	63	2.312	2.309	(0.561)	38914	42.5878	42.6
	23 Vinyl Acetate	43	2.344	2.340	(0.569)	86074	154.627	155
	25 1,2-Dichloroethene (cis)	96	2.794	2.790	(0.678)	23617	44.6031	44.6
	24 2,2-Dichloropropane	77	2.788	2.790	(0.676)	30720	46.4141	46.4
	26 2-Butanone	43	2.804	2.800	(0.680)	20379	207.869	208
	143 Methacrylonitrile	41	3.003	2.999	(0.729)	5937	215.139	215
	29 Bromochloromethane	49	3.018	3.015	(0.732)	12692	47.5487	47.5
	30 Tetrahydrofuran	42	3.086	3.083	(0.749)	2974	28.9199	28.9(R)
	31 Chloroform	83	3.102	3.098	(0.753)	38449	41.5190	41.5
$	32 Dibromofluoromethane (S)	113	3.275	3.271	(0.794)	15678	50.4575	50.4
	33 1,1,1-Trichloroethane	97	3.306	3.297	(0.802)	33565	43.4036	43.4
	139 Cyclohexane	56	3.374	3.370	(0.819)	33811	41.3846	41.4
	37 Isobutyl alcohol	43	3.902	3.883	(0.947)	110781	346.720	347(QR)
	36 1,1-Dichloropropene	75	3.500	3.496	(0.849)	32281	43.5021	43.5
	35 Carbon Tetrachloride	117	3.500	3.496	(0.849)	25898	49.1913	49.2
	144 isopropyl acetate	61	1.047	1.043	(0.254)	1866	45.2202	45.2(Q)
	147 2,2,4-Trimethylpentane	57	3.887	3.883	(0.943)	81636	42.6573	42.6
	38 Benzene	78	3.751	3.752	(0.910)	87569	43.4174	43.4
	39 1,2-Dichloroethane	62	3.777	3.768	(0.916)	20191	41.5373	41.5
*	40 Fluorobenzene	96	4.122	4.118	(1.000)	69145	50.0000	
	41 Trichloroethene	95	4.577	4.579	(1.110)	26050	43.8033	43.8
	140 Methylcyclohexane	55	4.802	4.798	(1.165)	34254	45.2538	45.2
	42 1,2-Dichloropropane	63	4.833	4.830	(1.173)	21676	44.4996	44.5(M)
	43 Dibromomethane	93	4.969	4.966	(1.206)	10432	43.1678	43.2
	141 1,4-Dioxane	88	5.032	5.028	(1.221)	2307		(Q)
	44 Methyl methacrylate	69	5.032	5.028	(1.221)	35630	166.838	167
	45 Bromodichloromethane	83	5.173	5.170	(1.255)	27045	43.5443	43.5
	46 2-Chloroethyl vinyl ether	63	5.550	5.551	(0.761)	3687	34.1062	34.1(R)
	47 cis-1,3-Dichloropropene	75	5.686	5.687	(0.779)	31822	43.8352	43.8
	48 4-Methyl-2-Pentanone	43	5.879	5.876	(0.806)	58167	214.152	214
$	49 Toluene-d8	98	5.979	5.975	(0.819)	68641	48.9077	48.9
	50 Toluene	91	6.047	6.043	(0.829)	98789	43.9319	43.9
	51 trans-1,3-Dichloropropene	75	6.308	6.305	(0.865)	23477	39.9527	40.0
	52 Ethyl Methacrylate	69	6.444	6.441	(0.883)	85523	194.662	195
	53 1,1,2-Trichloroethane	83	6.486	6.482	(0.889)	14092	42.1885	42.2
	54 Tetrachloroethene	166	6.612	6.608	(0.906)	30611	42.9580	43.0
	55 1,3-Dichloropropane	76	6.638	6.634	(0.910)	26127	46.7682	46.8
	56 2-Hexanone	43	6.742	6.739	(0.924)	45796	229.202	229
	57 Dibromochloromethane	129	6.836	6.833	(0.937)	16520	43.0008	43.0
	58 1,2-Dibromoethane	107	6.915	6.911	(0.948)	15684	46.4949	46.5
*	59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	60711	50.0000	
	60 Chlorobenzene	112	7.318	7.319	(1.003)	66621	44.0848	44.1
	61 1,1,1,2-Tetrachloroethane	131	7.386	7.387	(1.012)	19951	45.6551	45.6
	62 Ethylbenzene	106	7.412	7.413	(1.016)	38748	47.0964	47.1
	63 m&p-Xylene	106	7.501	7.502	(1.028)	89349	93.9878	94.0
	65 o-Xylene	106	7.773	7.774	(1.065)	47219	44.9287	44.9
	66 Styrene	104	7.783	7.785	(1.067)	74550	46.1124	46.1
	67 Bromoform	173	7.898	7.900	(0.898)	10292	42.5307	42.5
	68 Isopropylbenzene	105	8.018	8.020	(1.099)	119449	42.4279	42.4
	69 trans-1,4-Dichloro-2-butene	53	8.243	8.240	(1.130)	15539	175.485	175(Q)
$	70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	28523	49.3754	49.4
	145 n-amyl acetate	70	7.924	7.926	(1.922)	54877		(Q)
	72 1,1,2,2-Tetrachloroethane	83	8.212	8.208	(0.934)	20000	43.6347	43.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
71 Bromobenzene	77	8.201	8.198	(1.124)	56620	52.7988	52.8
73 1,2,3-Trichloropropane	75	8.238	8.229	(0.937)	36159	79.6089	79.6(Q)
74 n-Propylbenzene	91	8.275	8.276	(0.941)	157713	44.3422	44.3
75 2-Chlorotoluene	91	8.322	8.323	(0.946)	88492	43.1627	43.2
76 4-Chlorotoluene	126	8.327	8.323	(0.947)	28232	42.1550	42.2
77 1,3,5-Trimethylbenzene	105	8.379	8.381	(0.953)	100608	44.1728	44.2
78 tert-Butylbenzene	119	8.573	8.569	(0.975)	103434	40.1876	40.2
79 1,2,4-Trimethylbenzene	105	8.599	8.595	(0.978)	98539	43.2558	43.2
80 sec-Butylbenzene	105	8.698	8.695	(0.989)	144166	49.4429	49.4
81 1,3-Dichlorobenzene	146	8.756	8.757	(0.996)	57406	47.5665	47.6
83 p-Isopropyltoluene	119	8.772	8.773	(0.998)	109668	44.9072	44.9
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.794	(1.000)	29809	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	52763	46.1080	46.1
86 n-Butylbenzene	91	8.996	8.993	(1.023)	120392	44.1441	44.1
85 1,2-Dichlorobenzene	146	9.012	9.008	(1.025)	49418	42.5801	42.6
88 1,2,4-Trichlorobenzene	180	9.828	9.830	(1.118)	40873	43.2690	43.3
91 1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	33557	44.4407	44.4
87 1,2-Dibromo-3-chloropropane	155	9.410	9.411	(1.070)	2585	40.5383	40.5
89 Hexachlorobutadiene	225	9.907	9.908	(1.127)	31345	45.4155	45.4
90 Naphthalene	128	9.959	9.960	(1.133)	61781	47.1698	47.2
92 2,methyl-naphthalene	142	10.581	10.583	(1.203)	42217	53.3094	53.3

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b09icv.d
Lab Smp Id: icv 34D-379
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: icv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	69145	2.78
59 Chlorobenzene-d5	58912	29456	117824	60711	3.05
82 1,4-Dichlorobenze	28356	14178	56712	29809	5.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.09
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.02

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: icv 34D-379
Level: LOW
Data Type: MS DATA
SpikeList File: 8260icv.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: icv
Operator: rsw
SampleType: ICV
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	52.4	104.80	70-130
2 Chloromethane	50.0	48.2	96.51	70-130
3 Vinyl Chloride	50.0	45.6	91.29	70-130
4 Bromomethane	50.0	42.5	84.95	70-130
5 Chloroethane	50.0	45.5	91.08	70-130
6 Trichlorofluoromet	50.0	47.3	94.69	70-130
28 1,2-dichlorotriflu	50.0	45.7	91.43	70-130
7 Diethyl ether	50.0	42.7	85.39	70-130
8 Acrolein	1000	1530	153.17*	70-130
9 1,1-Dichloroethene	50.0	42.5	84.99	70-130
10 1,1,2trichlorotrif	50.0	40.1	80.27	70-130
11 Acetone	250	210	83.86	70-130
12 Iodomethane	100	76.9	76.93	70-130
13 Carbon Disulfide	100	118	117.92	70-130
138 Methyl Acetate	50.0	62.9	125.80	70-130
14 allyl chloride	100	77.7	77.72	70-130
15 Methylene Chloride	50.0	42.1	84.17	70-130
16 Acrylonitrile	1000	806	80.57	70-130
27 Propionitrile	50.0	0.000	NC *	70-130
18 1,2-Dichloroethene	50.0	43.9	87.77	70-130
19 Methyl-tert-butyl	100	82.8	82.80	70-130
20 n-Hexane	50.0	44.1	88.24	70-130
21 1,1-Dichloroethane	50.0	42.6	85.18	70-130
23 Vinyl Acetate	200	155	77.31	70-130
25 1,2-Dichloroethene	50.0	44.6	89.21	70-130
24 2,2-Dichloropropan	50.0	46.4	92.83	70-130
26 2-Butanone	250	208	83.15	70-130
29 Bromochloromethane	50.0	47.5	95.10	70-130
30 Tetrahydrofuran	50.0	28.9	NC 57.84*	70-130
31 Chloroform	50.0	41.5	83.04	70-130
33 1,1,1-Trichloroeth	50.0	43.4	86.81	70-130
139 Cyclohexane	50.0	41.4	82.77	70-130
37 Isobutyl alcohol	50.0	347	NC 693.44*	70-130
36 1,1-Dichloropropen	50.0	43.5	87.00	70-130
35 Carbon Tetrachlori	50.0	49.2	98.38	70-130
38 Benzene	50.0	43.4	86.83	70-130
39 1,2-Dichloroethane	50.0	41.5	83.07	70-130
41 Trichloroethene	50.0	43.8	87.61	70-130
140 Methylcyclohexane	50.0	45.2	90.51	70-130
42 1,2-Dichloropropan	50.0	44.5	89.00	70-130

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
43 Dibromomethane	50.0	43.2	86.34	70-130
44 Methyl methacrylat	200	167	83.42	70-130
45 Bromodichlorometha	50.0	43.5	87.09	70-130
46 2-Chloroethyl viny	100	34.1	NC 34.11*	70-130
47 cis-1,3-Dichloropr	50.0	43.8	87.67	70-130
48 4-Methyl-2-Pentano	250	214	85.66	70-130
50 Toluene	50.0	43.9	87.86	70-130
51 trans-1,3-Dichloro	50.0	40.0	79.91	70-130
52 Ethyl Methacrylate	200	195	97.33	70-130
53 1,1,2-Trichloroeth	50.0	42.2	84.38	70-130
54 Tetrachloroethene	50.0	43.0	85.92	70-130
55 1,3-Dichloropropan	50.0	46.8	93.54	70-130
56 2-Hexanone	250	229	91.68	70-130
57 Dibromochlorometha	50.0	43.0	86.00	70-130
58 1,2-Dibromoethane	50.0	46.5	92.99	70-130
60 Chlorobenzene	50.0	44.1	88.17	70-130
61 1,1,1,2-Tetrachlor	50.0	45.6	91.31	70-130
62 Ethylbenzene	50.0	47.1	94.19	70-130
63 m&p-Xylene	100	94.0	93.99	70-130
65 o-Xylene	50.0	44.9	89.86	70-130
66 Styrene	50.0	46.1	92.22	70-130
67 Bromoform	50.0	42.5	85.06	70-130
68 Isopropylbenzene	50.0	42.4	84.86	70-130
69 trans-1,4-Dichloro	200	175	87.74	70-130
72 1,1,2,2-Tetrachlor	50.0	43.6	87.27	70-130
71 Bromobenzene	50.0	52.8	105.60	70-130
73 1,2,3-Trichloropro	100	79.6	79.61	70-130
74 n-Propylbenzene	50.0	44.3	88.68	70-130
75 2-Chlorotoluene	50.0	43.2	86.33	70-130
76 4-Chlorotoluene	50.0	42.2	84.31	70-130
77 1,3,5-Trimethylben	50.0	44.2	88.35	70-130
78 tert-Butylbenzene	50.0	40.2	80.38	70-130
79 1,2,4-Trimethylben	50.0	43.2	86.51	70-130
80 sec-Butylbenzene	50.0	49.4	98.89	70-130
81 1,3-Dichlorobenzen	50.0	47.6	95.13	70-130
83 p-Isopropyltoluene	50.0	44.9	89.81	70-130
84 1,4-Dichlorobenzen	50.0	46.1	92.22	70-130
86 n-Butylbenzene	50.0	44.1	88.29	70-130
85 1,2-Dichlorobenzen	50.0	42.6	85.16	70-130
88 1,2,4-Trichloroben	50.0	43.3	86.54	70-130
91 1,2,3-Trichloroben	50.0	44.4	88.88	70-130
87 1,2-Dibromo-3-chlo	50.0	40.5	81.08	70-130
89 Hexachlorobutadien	50.0	45.4	90.83	70-130
90 Naphthalene	50.0	47.2	94.34	70-130
92 2,methyl-naphthale	50.0	53.3	106.62	70-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.4	100.92	82-122
$ 49 Toluene-d8	50.0	48.9	97.82	80-120

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 70 4-Bromofluorobenze	50.0	49.4	98.75	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-379
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	52.4	
74-87-3	Chloromethane	48.2	
75-01-4	Vinyl Chloride	45.6	
74-83-9	Bromomethane	42.5	
75-00-3	Chloroethane	45.5	
75-69-4	Trichlorofluoromethane	47.3	
354-23-4	1,2-dichlorotrifluoroethane	45.7	
60-29-7	Diethyl ether	42.7	
107-02-8	Acrolein	1530	
75-35-4	1,1-Dichloroethene	42.5	
76-13-1	1,1,2trichlorotrifluoroethan	40.1	
67-64-1	Acetone	210	
	Iodomethane	76.9	
75-05-8	Acetonitrile	777	
75-15-0	Carbon Disulfide	118	
79-20-9	Methyl Acetate	62.9	
107-05-1	allyl chloride	77.7	
75-09-2	Methylene Chloride	42.1	
107-13-1	Acrylonitrile	806	
75-65-0	tert-Butyl Alcohol	101	
156-60-5	1,2-Dichloroethene (trans)	43.9	
1634-04-4	Methyl-tert-butyl ether	82.8	
	n-Hexane	44.1	
126-99-8	Chloroprene	31.0	
75-34-3	1,1-Dichloroethane	42.6	
108-05-4	Vinyl Acetate	155	
156-59-2	1,2-Dichloroethene (cis)	44.6	
594-20-7	2,2-Dichloropropane	46.4	
78-93-3	2-Butanone	208	
126-98-7	Methacrylonitrile	215	
74-97-5	Bromochloromethane	47.5	
	Tetrahydrofuran	28.9	
67-66-3	Chloroform	41.5	
71-55-6	1,1,1-Trichloroethane	43.4	
110-82-7	Cyclohexane	41.4	
78-83-1	Isobutyl alcohol	347	
563-58-6	1,1-Dichloropropene	43.5	
56-23-5	Carbon Tetrachloride	49.2	
108-21-4	isopropyl acetate	45.2	
540-84-1	2,2,4-Trimethylpentane	42.6	
71-43-2	Benzene	43.4	
107-06-2	1,2-Dichloroethane	41.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-379
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	43.8	
108-87-2	Methylcyclohexane	45.2	
78-87-5	1,2-Dichloropropane	44.5	
74-95-3	Dibromomethane	43.2	
	1,4-Dioxane	0.000	
80-62-6	Methyl methacrylate	167	
75-27-4	Bromodichloromethane	43.5	
110-75-8	2-Chloroethyl vinyl ether	34.1	
10061-01-5	cis-1,3-Dichloropropene	43.8	
108-10-1	4-Methyl-2-Pentanone	214	
108-88-3	Toluene	43.9	
10061-02-6	trans-1,3-Dichloropropene	40.0	
	Ethyl Methacrylate	195	
79-00-5	1,1,2-Trichloroethane	42.2	
127-18-4	Tetrachloroethene	43.0	
142-28-9	1,3-Dichloropropane	46.8	
591-78-6	2-Hexanone	229	
124-48-1	Dibromochloromethane	43.0	
106-93-4	1,2-Dibromoethane	46.5	
108-90-7	Chlorobenzene	44.1	
630-20-6	1,1,1,2-Tetrachloroethane	45.6	
100-41-4	Ethylbenzene	47.1	
7816-60-0	m&p-Xylene	94.0	
95-47-6	o-Xylene	44.9	
100-42-5	Styrene	46.1	
75-25-2	Bromoform	42.5	
98-82-8	Isopropylbenzene	42.4	
	trans-1,4-Dichloro-2-butene	175	
628-63-7	n-amyl acetate	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	43.6	
108-86-1	Bromobenzene	52.8	
96-18-4	1,2,3-Trichloropropane	79.6	
103-65-1	n-Propylbenzene	44.3	
95-49-8	2-Chlorotoluene	43.2	
106-43-4	4-Chlorotoluene	42.2	
108-67-8	1,3,5-Trimethylbenzene	44.2	
98-06-6	tert-Butylbenzene	40.2	
95-63-6	1,2,4-Trimethylbenzene	43.2	
135-98-8	sec-Butylbenzene	49.4	
541-73-1	1,3-Dichlorobenzene	47.6	
99-87-6	p-Isopropyltoluene	44.9	
106-46-7	1,4-Dichlorobenzene	46.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

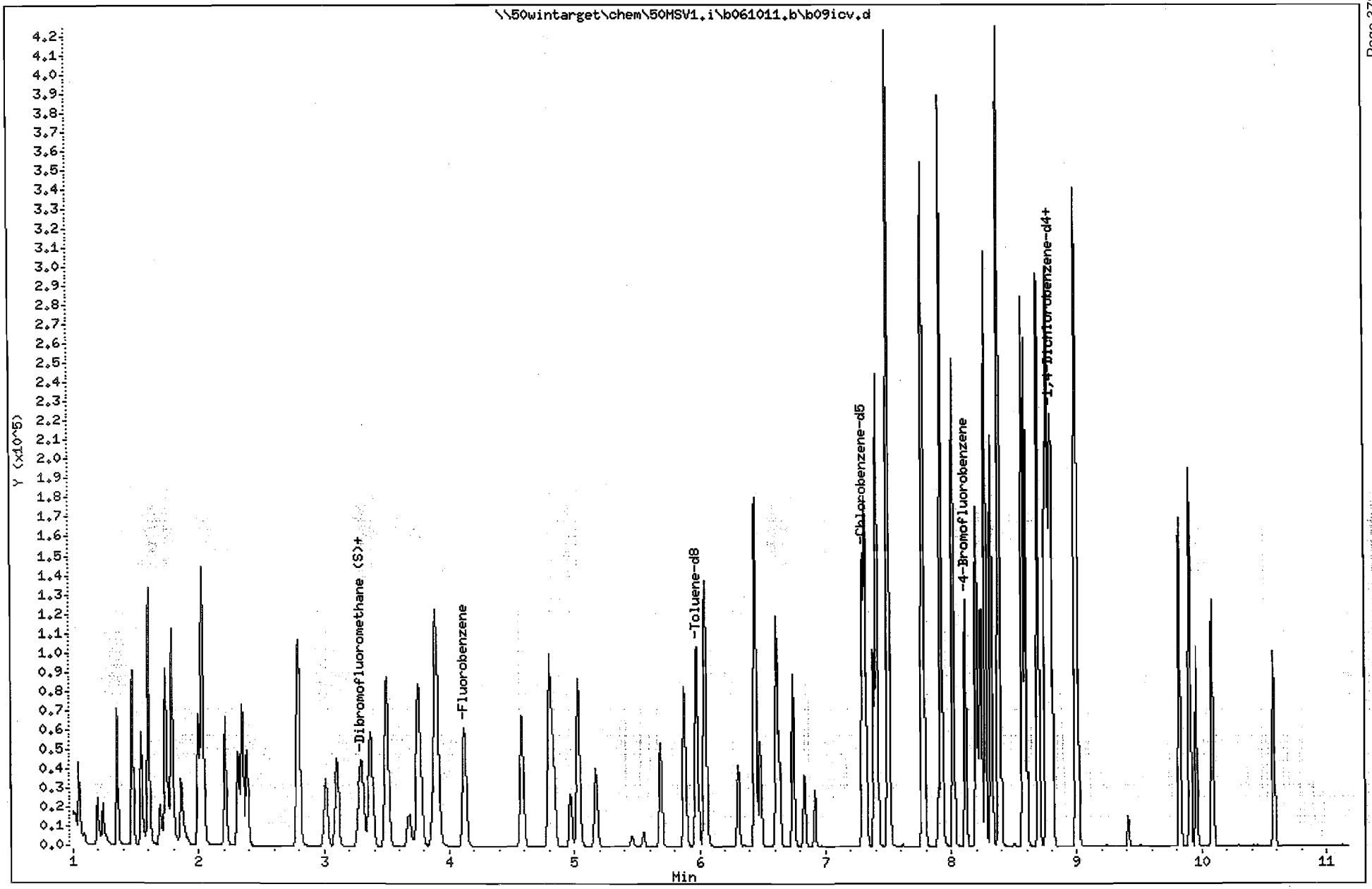
Client Name:
Lab Smp Id: icv 34D-379
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b061011.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	44.1	
95-50-1	1,2-Dichlorobenzene	42.6	
120-82-1	1,2,4-Trichlorobenzene	43.3	
87-61-6	1,2,3-Trichlorobenzene	44.4	
96-12-8	1,2-Dibromo-3-chloropropane	40.5	
87-68-3	Hexachlorobutadiene	45.4	
91-20-3	Naphthalene	47.2	
	2-methyl-naphthalene	53.3	
1868-53-7	Dibromofluoromethane (S)	50.4	
2037-26-5	Toluene-d8	48.9	
460-00-4	4-Bromofluorobenzene	49.4	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b09icv.d
Date : 10-JUN-2011 18:37
Client ID: icv
Sample Info: icv 34D-379
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\b09icv.d

Date : 10-JUN-2011 18:37

Client ID: icv

Instrument: 50MSV1.i

Sample Info: icv 34D-379

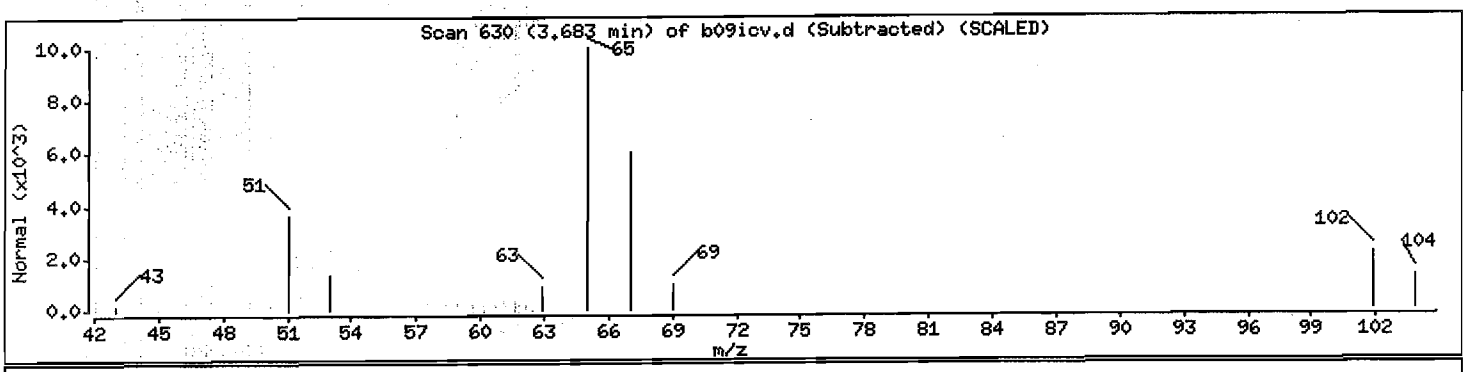
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 3: Calibration Verification Data

** BFB Summary (Form 5A)*
** Calibration Verification Summary (Form 7A)*
** BFB Tune*
** Calibration Verification Standards*

5A
BFB ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Lab File ID: B00BFB BFB Injection Date: 06/09/11

Instrument ID: 50MSV5 BFB Injection Time: 1517

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	76.9
175	5.0 - 9.0% of mass 174	5.9 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	77.2 (100.4)1
177	5.0 - 9.0% of mass 176	5.4 (7.0)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LCS	583385	B02LCS	06/09/11	1632
02	CCV	CCV 34D-365	B02CCV	06/09/11	1632
03	MB	583370	B03MB	06/09/11	1709
04	5049275001	5049275001	B04	06/09/11	1747
05	5049275003	5049275003	B05	06/09/11	1825
06	5049193001	5049193001	B06	06/09/11	1902
07	5049193002	5049193002	B07	06/09/11	1940
08	5049277001	5049277001	B08	06/09/11	2018
09	5049364001	5049364001	B09	06/09/11	2056
10	5049364002	5049364002	B10	06/09/11	2134
11	5049364003	5049364003	B11	06/09/11	2212
12	5049364004	5049364004	B12	06/09/11	2249
13	5049364005	5049364005	B13	06/09/11	2327
14	5049364006	5049364006	B14	06/10/11	0004
15	5049364007	5049364007	B15	06/10/11	0041
16	5049360001	5049360001	B16	06/10/11	0119
17	5049360002	5049360002	B17	06/10/11	0156
18	5049215015	5049215015	B18	06/10/11	0233
19	5049215016	5049215016	B19	06/10/11	0310
20					
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Instrument ID: 50MSV5 Calibration Date: 06/09/11 Time: 1632

Lab File ID: B02CCV Init. Calib. Date(s): 06/02/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Bromochloromethane	47.661	50.000	LINR	4.6780	
Chloromethane	40.372	50.000	AVRG	19.256	
Bromomethane	65.579	50.000	LINR	-31.16	<-
Vinyl Chloride	59.442	50.000	AVRG	-18.88	
Chloroethane	55.252	50.000	AVRG	-10.50	
Methylene Chloride	57.967	50.000	LINR	-15.93	
1,1-Dichloroethene	53.988	50.000	AVRG	-7.976	
1,1-Dichloroethane	47.792	50.000	AVRG	4.4160	
1,2-Dichloroethene (trans)	54.742	50.000	AVRG	-9.484	
Chloroform	49.885	50.000	AVRG	0.2300	
1,2-Dichloroethane	62.894	50.000	AVRG	-25.79	<-
1,1,1-Trichloroethane	52.081	50.000	AVRG	-4.162	
Carbon Tetrachloride	51.301	50.000	LINR	-2.602	
Bromodichloromethane	58.813	50.000	LINR	-17.63	
1,2-Dichloropropane	51.672	50.000	AVRG	-3.344	
trans-1,3-Dichloropropene	48.380	50.000	LINR	3.2400	
Trichloroethene	57.679	50.000	AVRG	-15.36	
Dibromochloromethane	54.273	50.000	LINR	-8.546	
1,1,2-Trichloroethane	54.403	50.000	AVRG	-8.806	
Benzene	61.257	50.000	AVRG	-22.51	<-
cis-1,3-Dichloropropene	47.475	50.000	LINR	5.0500	
Bromoform	54.055	50.000	LINR	-8.110	
Tetrachloroethene	53.295	50.000	AVRG	-6.590	
1,1,2,2-Tetrachloroethane	#53.648	50.000	AVRG	-7.296#	
Toluene	49.967	50.000	LINR	7e-002	
Chlorobenzene	#53.226	50.000	AVRG	-6.452#	
Ethylbenzene	55.656	50.000	AVRG	-11.31	
Styrene	57.454	50.000	AVRG	-14.91	
Trichlorofluoromethane	56.551	50.000	AVRG	-13.10	
m&p-Xylene	106.74	100.00	AVRG	-6.740	
1,2-Dichloroethene (cis)	57.247	50.000	AVRG	-14.49	
o-Xylene	57.129	50.000	AVRG	-14.26	
1,2,3-Trichloropropane	64.103	50.000	LINR	-28.21	<-
1,3-Dichlorobenzene	54.544	50.000	AVRG	-9.088	
1,4-Dichlorobenzene	52.229	50.000	AVRG	-4.458	
Dibromomethane	56.152	50.000	LINR	-12.30	
1,2-Dichlorobenzene	55.367	50.000	AVRG	-10.73	
Dichlorodifluoromethane	63.671	50.000	AVRG	-27.34	<-

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Instrument ID: 50MSV5 Calibration Date: 06/09/11 Time: 1632

Lab File ID: B02CCV Init. Calib. Date(s): 06/02/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
2,2-Dichloropropane	52.610	50.000	AVRG	-5.220	
1,1-Dichloropropene	50.431	50.000	AVRG	-0.862	
1,3-Dichloropropane	55.402	50.000	AVRG	-10.80	
1,2-Dibromoethane	54.270	50.000	LINR	-8.540	
1,1,1,2-Tetrachloroethane	56.727	50.000	LINR	-13.45	
Isopropylbenzene	58.024	50.000	AVRG	-16.05	
Bromobenzene	59.598	50.000	AVRG	-19.20	
n-Propylbenzene	50.445	50.000	AVRG	-0.890	
2-Chlorotoluene	52.259	50.000	AVRG	-4.518	
4-Chlorotoluene	50.720	50.000	AVRG	-1.440	
1,3,5-Trimethylbenzene	50.845	50.000	AVRG	-1.690	
tert-Butylbenzene	39.165	50.000	LINR	21.670	<-
1,2,4-Trimethylbenzene	52.326	50.000	AVRG	-4.652	
sec-Butylbenzene	52.026	50.000	AVRG	-4.052	
p-Isopropyltoluene	52.821	50.000	AVRG	-5.642	
n-Butylbenzene	52.643	50.000	AVRG	-5.286	
1,2-Dibromo-3-chloropropane	71.577	50.000	LINR	-43.15	<-
1,2,4-Trichlorobenzene	67.414	50.000	AVRG	-34.83	<-
Hexachlorobutadiene	62.418	50.000	LINR	-24.84	<-
Naphthalene	78.712	50.000	AVRG	-57.42	<-
1,2,3-Trichlorobenzene	72.747	50.000	AVRG	-45.49	<-
Acrolein	623.11	1000.0	LINR	37.689	<-
Carbon Disulfide	99.466	100.00	LINR	0.5340	
Acetone	297.29	250.00	LINR	-18.92	
Acrylonitrile	1083.1	1000.0	AVRG	-8.310	
Vinyl Acetate	177.58	200.00	LINR	11.210	
2-Butanone	307.42	250.00	AVRG	-22.97	<-
2-Chloroethyl vinyl ether	40.851	100.00	LINR	59.149	<-
4-Methyl-2-Pentanone	253.53	250.00	LINR	-1.412	
2-Hexanone	299.55	250.00	LINR	-19.82	
Methyl-tert-butyl ether	111.61	100.00	LINR	-11.61	
Iodomethane	102.32	100.00	LINR	-2.320	
trans-1,4-Dichloro-2-butene	188.67	50.000	LINR	-277.3	<-
Ethyl Methacrylate	235.96	50.000	LINR	-371.9	<-
2,methyl-naphthalene	54.229	50.000	LINR	-8.458	
n-Hexane	53.733	50.000	AVRG	-7.466	
1,1,2trichlorotrifluoroetha	50.946	50.000	AVRG	-1.892	
1,2-dichlorotrifluoroethane	50.851	50.000	AVRG	-1.702	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Instrument ID: 50MSV5 Calibration Date: 06/09/11 Time: 1632

Lab File ID: B02CCV Init. Calib. Date(s): 06/02/11

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Tetrahydrofuran	52.867	50.000	LINR	-5.734	
allyl chloride	82.634	100.00	AVRG	17.366	
Diethyl ether	54.108	50.000	LINR	-8.216	
Isobutyl alcohol	446.13	50.000	LINR	-792.3	<-
Methyl methacrylate	253.45	50.000	LINR	-406.9	<-
Propionitrile	0.0000	50.000	LINR	100.00	<-
tert-Butyl Alcohol	143.74	100.00	LINR	-43.74	<-
2,2,4-Trimethylpentane	53.232	50.000	AVRG	-6.464	
Methyl Acetate	70.666	50.000	AVRG	-41.33	<-
Cyclohexane	46.579	50.000	AVRG	6.8420	
Methylcyclohexane	50.089	50.000	AVRG	-0.178	
Acetonitrile	40.856	50.000	AVRG	18.288	
Chloroprene	37.457	50.000	AVRG	25.086	<-
Methacrylonitrile	256.33	250.00	AVRG	-2.532	
1,4-Dioxane	1469.0	50.000	AVRG	-2838	<-
Toluene-d8	46.021	50.000	AVRG	7.9580	
4-Bromofluorobenzene	56.058	50.000	AVRG	-12.12	
Dibromofluoromethane (S)	49.782	50.000	AVRG	0.4360	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b00bfb.d

Date : 09-JUN-2011 15:17

Client ID: bfb050

Instrument: 50MSV5.i

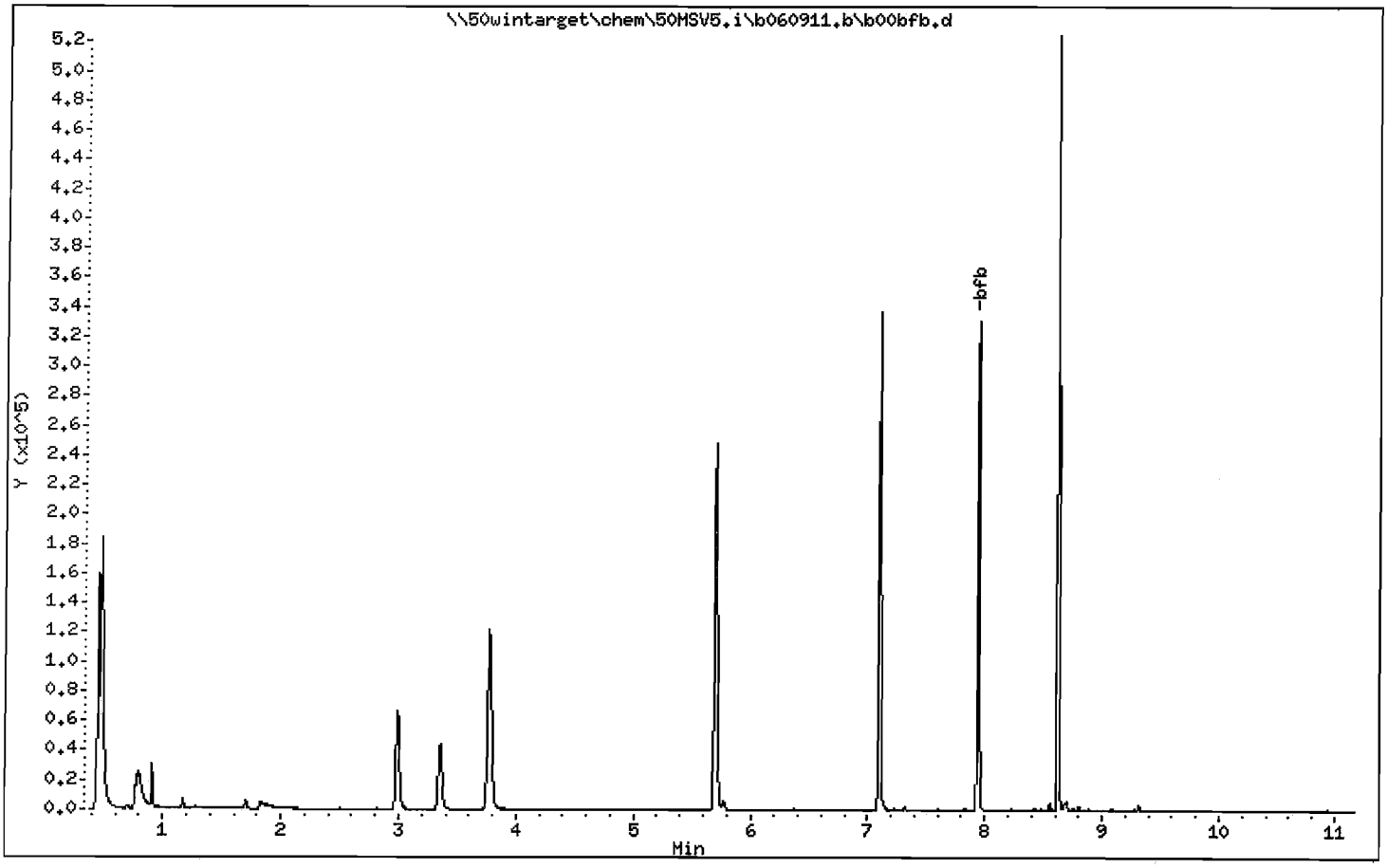
Sample Info: bfb 34D-349

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b00bfb.d

Date : 09-JUN-2011 15:17

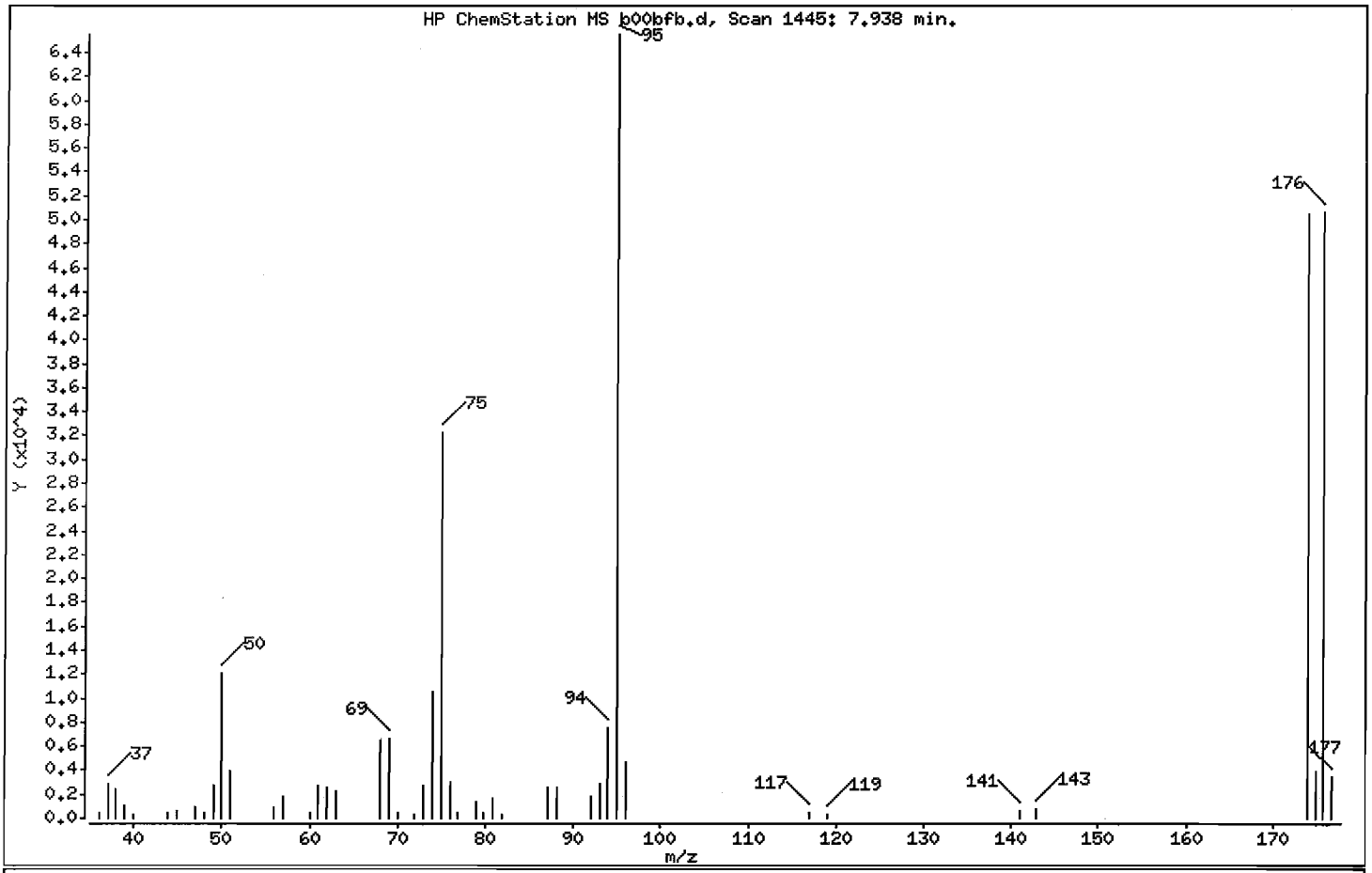
Client ID: bfb050 Instrument: 50MSV5.i

Sample Info: bfb 34D-349

Volume Injected (uL): 1.0 Operator: rsw

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.41
75	30.00 - 60.00% of mass 95	49.16
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	76.92
175	5.00 - 9.00% of mass 174	5.87 (7.63)
176	95.00 - 101.00% of mass 174	77.20 (100.37)
177	5.00 - 9.00% of mass 176	5.40 (6.99)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b00bfb.d

Date : 09-JUN-2011 15:17

Client ID: bfb050 Instrument: 50MSV5.i

Sample Info: bfb 34D-349

Volume Injected (uL): 1.0 Operator: rsw

Column phase: Column diameter: 2.00

Data File: b00bfb.d
Spectrum: HP ChemStation MS b00bfb.d, Scan 1445: 7.938 min.
Location of Maximum: 95.00
Number of points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	503	56.00	903	75.00	32200	95.00	65504
37.00	2869	57.00	1738	76.00	3039	96.00	4654
38.00	2377	60.00	508	76.90	427	116.90	382
39.00	988	61.00	2689	78.90	1382	118.90	365
40.00	300	62.00	2598	79.90	440	140.90	641
44.00	466	63.00	2281	80.90	1674	142.90	734
45.00	588	68.00	6448	81.90	350	173.90	50384
47.00	923	69.00	6554	87.00	2580	174.90	3843
48.00	378	70.00	476	88.00	2592	175.90	50568
49.00	2722	72.00	353	92.00	1829	176.90	3536
50.00	12059	73.00	2648	93.00	2845		
51.00	3872	74.00	10473	94.00	7520		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\b02ccv.d
Lab Smp Id: ccv 34D-365 Client Smp ID: ccv
Inj Date : 09-JUN-2011 16:32
Operator : rsw Inst ID: 50MSV5.i
Smp Info : ccv 34D-365
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.855	0.855	(0.226)	76022	50.0000	63.7
2 Chloromethane	50	0.934	0.933	(0.247)	47805	50.0000	40.4
3 Vinyl Chloride	62	0.970	0.970	(0.257)	48401	50.0000	59.4
4 Bromomethane	94	1.101	1.101	(0.291)	37908	50.0000	65.6
139 Methyl Acetate	43	1.650	1.650	(0.437)	15617	50.0000	70.7
5 Chloroethane	64	1.143	1.143	(0.303)	26158	50.0000	55.2
6 Trichlorofluoromethane	101	1.247	1.247	(0.330)	86878	50.0000	56.6
7 Diethyl ether	74	1.363	1.362	(0.361)	15625	50.0000	54.1
8 Acrolein	56	1.425	1.425	(0.377)	31015	1000.00	623
9 1,1-Dichloroethene	96	1.472	1.472	(0.390)	39550	50.0000	54.0
10 1,1,2trichlorotrifluoroethane	101	1.467	1.467	(0.388)	44090	50.0000	50.9
11 Acetone	43	1.493	1.493	(0.395)	27536	250.000	297
12 Iodomethane	142	1.551	1.551	(0.410)	140491	100.000	102
13 Carbon Disulfide	76	1.587	1.587	(0.420)	241729	100.000	99.5
142 Acetonitrile	39	1.645	1.645	(0.435)	60853	50.0000	40.8
14 allyl chloride	41	1.645	1.645	(0.435)	80663	100.000	82.6
15 Methylene Chloride	84	1.708	1.707	(0.452)	38539	50.0000	58.0
16 Acrylonitrile	53	1.844	1.838	(0.488)	124554	1000.00	1080
17 tert-Butyl Alcohol	59	1.755	1.760	(0.464)	3324	100.000	144(Q)
18 1,2-Dichloroethene (trans)	96	1.859	1.854	(0.492)	42710	50.0000	54.7
19 Methyl-tert-butyl ether	73	1.859	1.859	(0.492)	154800	100.000	112
20 n-Hexane	57	2.022	2.016	(0.535)	55020	50.0000	53.7
21 1,1-Dichloroethane	63	2.116	2.115	(0.560)	69119	50.0000	47.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.147	2.147	(0.568)	152745	200.000	178
	143 Chloroprene	53	2.184	2.178	(0.578)	49553	50.0000	37.4
	24 2,2-Dichloropropane	77	2.550	2.550	(0.675)	58844	50.0000	52.6
	25 1,2-Dichloroethene (cis)	96	2.550	2.544	(0.675)	45903	50.0000	57.2
	26 2-Butanone	43	2.571	2.576	(0.680)	44580	250.000	307
	144 Methacrylonitrile	41	2.754	2.759	(0.729)	10848	250.000	256
	28 1,2-dichlorotrifluoroethane	67	1.357	1.357	(0.359)	45519	50.0000	50.8
	29 Bromochloromethane	49	2.759	2.754	(0.730)	24134	50.0000	47.7
	30 Tetrahydrofuran	42	2.817	2.816	(0.745)	4883	50.0000	52.9
	31 Chloroform	83	2.832	2.832	(0.750)	76630	50.0000	49.9
$	32 Dibromofluoromethane (S)	113	2.989	2.989	(0.791)	40463	50.0000	49.8
	33 1,1,1-Trichloroethane	97	3.010	3.005	(0.797)	70398	50.0000	52.1
	35 Carbon Tetrachloride	117	3.177	3.177	(0.841)	64075	50.0000	51.3
	36 1,1-Dichloropropene	75	3.183	3.177	(0.842)	57549	50.0000	50.4
	37 Isobutyl alcohol	43	3.570	3.522	(0.945)	274723	50.0000	446(Q)
	140 Cyclohexane	56	3.057	3.057	(0.809)	59173	50.0000	46.6
	38 Benzene	78	3.413	3.413	(0.903)	172774	50.0000	61.2
	39 1,2-Dichloroethane	62	3.444	3.444	(0.911)	61972	50.0000	62.9
	138 2,2,4-Trimethylpentane	57	3.523	3.522	(0.932)	161405	50.0000	53.2
	141 Methylcyclohexane	55	4.475	4.474	(1.184)	64912	50.0000	50.1
*	40 Fluorobenzene	96	3.779	3.773	(1.000)	161034	50.0000	
	41 Trichloroethene	95	4.255	4.255	(1.126)	53610	50.0000	57.7
	42 1,2-Dichloropropane	63	4.532	4.532	(1.199)	43969	50.0000	51.7
	43 Dibromomethane	93	4.668	4.668	(1.235)	27094	50.0000	56.2
	44 Methyl methacrylate	69	4.752	4.751	(1.257)	80825	50.0000	253
	45 Bromodichloromethane	83	4.882	4.882	(1.292)	66558	50.0000	58.8
	46 2-Chloroethyl vinyl ether	63	5.290	5.285	(0.745)	16014	100.000	40.8
	145 1,4-Dioxane	88	4.741	4.741	(1.255)	6501	50.0000	1470
	47 cis-1,3-Dichloropropene	75	5.416	5.416	(0.762)	67973	50.0000	47.5
	48 4-Methyl-2-Pentanone	43	5.636	5.635	(0.793)	142548	250.000	254
$	49 Toluene-d8	98	5.704	5.703	(0.803)	172252	50.0000	46.0
	50 Toluene	91	5.777	5.777	(0.813)	216798	50.0000	50.0
	51 trans-1,3-Dichloropropene	75	6.054	6.054	(0.852)	58400	50.0000	48.4
	52 Ethyl Methacrylate	69	6.206	6.205	(0.873)	174428	50.0000	236
	53 1,1,2-Trichloroethane	83	6.242	6.242	(0.879)	32088	50.0000	54.4
	54 Tetrachloroethene	166	6.363	6.362	(0.895)	66359	50.0000	53.3
	55 1,3-Dichloropropane	76	6.410	6.409	(0.902)	67171	50.0000	55.4
	56 2-Hexanone	43	6.540	6.540	(0.921)	118635	250.000	300
	57 Dibromochloromethane	129	6.619	6.619	(0.932)	50586	50.0000	54.3
	58 1,2-Dibromoethane	107	6.703	6.702	(0.943)	40470	50.0000	54.3
*	59 Chlorobenzene-d5	117	7.105	7.105	(1.000)	146418	50.0000	
	60 Chlorobenzene	112	7.126	7.126	(1.003)	158564	50.0000	53.2
	61 1,1,1,2-Tetrachloroethane	131	7.199	7.199	(1.013)	58453	50.0000	56.7
	62 Ethylbenzene	106	7.226	7.225	(1.017)	87083	50.0000	55.6
	63 m&p-Xylene	106	7.320	7.320	(1.030)	211434	100.000	107
	65 o-Xylene	106	7.597	7.597	(1.069)	103353	50.0000	57.1
	66 Styrene	104	7.607	7.607	(1.071)	175333	50.0000	57.4
	67 Bromoform	173	7.722	7.722	(0.896)	32647	50.0000	54.0
	68 Isopropylbenzene	105	7.848	7.848	(1.105)	281687	50.0000	58.0
	69 trans-1,4-Dichloro-2-butene	53	8.083	8.083	(1.138)	54371	50.0000	189(Q)
$	70 4-Bromofluorobenzene	95	7.942	7.942	(1.118)	73574	50.0000	56.0
	71 Bromobenzene	77	8.026	8.026	(1.130)	104123	50.0000	59.6
	72 1,1,2,2-Tetrachloroethane	83	8.047	8.047	(0.933)	51828	50.0000	53.6
	73 1,2,3-Trichloropropane	75	8.083	8.067	(0.938)	68309	50.0000	64.1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.110	8.109	(0.941)	360907	50.0000	50.4
75 2-Chlorotoluene	91	8.151	8.151	(0.945)	206664	50.0000	52.2
76 4-Chlorotoluene	126	8.219	8.219	(0.953)	71129	50.0000	50.7
77 1,3,5-Trimethylbenzene	105	8.214	8.214	(0.953)	241860	50.0000	50.8
78 tert-Butylbenzene	119	8.408	8.407	(0.975)	224188	50.0000	39.2
79 1,2,4-Trimethylbenzene	105	8.434	8.434	(0.978)	242716	50.0000	52.3
80 sec-Butylbenzene	105	8.528	8.528	(0.989)	338563	50.0000	52.0
81 1,3-Dichlorobenzene	146	8.585	8.585	(0.996)	142736	50.0000	54.5
* 82 1,4-Dichlorobenzene-d4	152	8.622	8.622	(1.000)	90460	50.0000	
83 p-Isopropyltoluene	119	8.612	8.611	(0.999)	283874	50.0000	52.8
84 1,4-Dichlorobenzene	146	8.638	8.638	(1.002)	142126	50.0000	52.2
85 1,2-Dichlorobenzene	146	8.842	8.842	(1.025)	131233	50.0000	55.4
86 n-Butylbenzene	91	8.831	8.831	(1.024)	269127	50.0000	52.6
87 1,2-Dibromo-3-chloropropane	155	9.244	9.244	(1.072)	8098	50.0000	71.6
88 1,2,4-Trichlorobenzene	180	9.652	9.657	(1.119)	107424	50.0000	67.4
89 Hexachlorobutadiene	225	9.731	9.736	(1.129)	76134	50.0000	62.4
90 Naphthalene	128	9.778	9.783	(1.134)	206111	50.0000	78.7
91 1,2,3-Trichlorobenzene	180	9.898	9.898	(1.148)	101812	50.0000	72.7
92 2,methyl-naphthalene	142	10.364	10.369	(1.202)	118664	50.0000	54.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b02ccv.d
Lab Smp Id: ccv 34D-365
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info:

Calibration Date: 09-JUN-2011
Calibration Time: 15:54
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	205436	102718	410872	161034	-21.61
59 Chlorobenzene-d5	169478	84739	338956	146418	-13.61
82 1,4-Dichlorobenze	88181	44091	176362	90460	2.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF

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.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i Injection Date: 09-JUN-2011 16:32
Lab File ID: b02ccv.d Init. Cal. Date(s): 02-JUN-2011 02-JUN-2011
Analysis Type: WATER Init. Cal. Times: 14:46 19:04
Lab Sample ID: ccv 34D-365 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.37072	0.47209	0.47209	0.100	27.34211	20.00000	Averaged	<-
2 Chloromethane	0.36766	0.29686	0.29686	0.100	-19.25514	20.00000	Averaged	
3 Vinyl Chloride	0.25282	0.30056	0.30056	0.100	18.88350	20.00000	Averaged	
4 Bromomethane	50.00000	65.57909	0.23540	0.100	31.15819	0.000e+000	Linear	
139 Methyl Acetate	0.06862	0.09698	0.09698	0.100	41.33159	20.00000	Averaged	<-
5 Chloroethane	0.14700	0.16244	0.16244	0.100	10.50393	20.00000	Averaged	
6 Trichlorofluoromethane	0.47700	0.53950	0.53950	0.100	13.10214	20.00000	Averaged	
7 Diethyl ether	50.00000	54.10761	0.09703	0.100	8.21522	0.000e+000	Linear	
8 Acrolein	1000	623	0.00963	0.100	-37.68901	0.000e+000	Linear	
9 1,1-Dichloroethene	0.22746	0.24560	0.24560	0.100	7.97573	20.00000	Averaged	
10 1,1,2trichlorotrifluoroetha	0.26871	0.27379	0.27379	0.100	1.89148	20.00000	Averaged	
11 Acetone	250	297	0.03420	0.100	18.91651	0.000e+000	Linear	
12 Iodomethane	100	102	0.43622	0.100	2.32085	0.000e+000	Linear	
13 Carbon Disulfide	100	99	0.75055	0.100	-0.53372	0.000e+000	Linear	
142 Acetonitrile	0.46247	0.37789	0.37789	0.100	-18.28829	20.00000	Averaged	
14 allyl chloride	0.30309	0.25045	0.25045	0.100	-17.36644	20.00000	Averaged	
15 Methylene Chloride	50.00000	57.96707	0.23932	0.100	15.93414	0.000e+000	Linear	
16 Acrylonitrile	0.03571	0.03867	0.03867	0.100	8.31153	20.00000	Averaged	
17 tert-Butyl Alcohol	100	144	0.01032	0.100	43.73749	0.000e+000	Linear	
18 1,2-Dichloroethene (trans)	0.24225	0.26522	0.26522	0.100	9.48404	20.00000	Averaged	
19 Methyl-tert-butyl ether	100	112	0.48064	0.100	11.61409	0.000e+000	Linear	
20 n-Hexane	0.31793	0.34167	0.34167	0.100	7.46590	20.00000	Averaged	
21 1,1-Dichloroethane	0.44905	0.42922	0.42922	0.100	-4.41560	20.00000	Averaged	
23 Vinyl Acetate	200	178	0.23713	0.100	-11.21178	0.000e+000	Linear	
143 Chloroprene	0.41077	0.30772	0.30772	0.100	-25.08683	20.00000	Averaged	<-
24 2,2-Dichloropropane	0.34728	0.36541	0.36541	0.100	5.22094	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	0.24897	0.28505	0.28505	0.100	14.49366	20.00000	Averaged	
26 2-Butanone	0.04503	0.05537	0.05537	0.100	22.96632	20.00000	Averaged	<-
27 Propionitrile	++++	++++	++++	0.100	++++	0.000e+000	Linear	<-
144 Methacrylonitrile	0.01314	0.01347	0.01347	0.100	2.53131	20.00000	Averaged	
28 1,2-dichlorotrifluoroethane	0.27794	0.28267	0.28267	0.100	1.70148	20.00000	Averaged	
29 Bromochloromethane	50.00000	47.66136	0.14987	0.100	-4.67729	0.000e+000	Linear	
30 Tetrahydrofuran	50.00000	52.86747	0.03032	0.100	5.73495	0.000e+000	Linear	
31 Chloroform	0.47696	0.47586	0.47586	0.100	-0.23063	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.25237	0.25127	0.25127	0.100	-0.43535	20.00000	Averaged	
33 1,1,1-Trichloroethane	0.41969	0.43716	0.43716	0.100	4.16263	20.00000	Averaged	
35 Carbon Tetrachloride	50.00000	51.30138	0.39790	0.100	2.60276	0.000e+000	Linear	
36 1,1-Dichloropropene	0.35432	0.35737	0.35737	0.100	0.86230	20.00000	Averaged	
37 Isobutyl alcohol	50.00000	446	1.70599	0.100	792	0.000e+000	Linear	
140 Cyclohexane	0.39445	0.36746	0.36746	0.100	-6.84240	20.00000	Averaged	
38 Benzene	0.87574	1.07290	1.07290	0.100	22.51330	20.00000	Averaged	<-
39 1,2-Dichloroethane	0.30594	0.38484	0.38484	0.100	25.78774	20.00000	Averaged	<-
138 2,2,4-Trimethylpentane	0.94145	1.00230	1.00230	0.100	6.46432	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i Injection Date: 09-JUN-2011 16:32
Lab File ID: b02ccv.d Init. Cal. Date(s): 02-JUN-2011 02-JUN-2011
Analysis Type: WATER Init. Cal. Times: 14:46 19:04
Lab Sample ID: ccv 34D-365 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
141 Methylcyclohexane	0.40238	0.40309	0.40309	0.100	0.17773	20.00000	Averaged	
41 Trichloroethene	0.28859	0.33291	0.33291	0.100	15.35716	20.00000	Averaged	
42 1,2-Dichloropropane	0.26421	0.27304	0.27304	0.100	3.34391	20.00000	Averaged	
43 Dibromomethane	50.00000	56.15175	0.16825	0.100	12.30350	0.000e+000	Linear	
44 Methyl methacrylate	50.00000	253	0.50191	0.100	407	0.000e+000	Linear	
45 Bromodichloromethane	50.00000	58.81302	0.41332	0.100	17.62604	0.000e+000	Linear	
46 2-Chloroethyl vinyl ether	100	40.85105	0.05469	0.100	-59.14895	0.000e+000	Linear	
145 1,4-Dioxane	0.00137	0.04037	0.04037	0.100	2838	20.00000	Averaged	<-
47 cis-1,3-Dichloropropene	50.00000	47.47452	0.46424	0.100	-5.05095	0.000e+000	Linear	
48 4-Methyl-2-Pentanone	250	254	0.19471	0.100	1.41105	0.000e+000	Linear	
$ 49 Toluene-d8	1.27817	1.17644	1.17644	0.100	-7.95869	20.00000	Averaged	
50 Toluene	50.00000	49.96743	1.48068	0.100	-0.06513	0.000e+000	Linear	
51 trans-1,3-Dichloropropene	50.00000	48.37988	0.39886	0.100	-3.24024	0.000e+000	Linear	
52 Ethyl Methacrylate	50.00000	236	1.19130	0.100	372	0.000e+000	Linear	
53 1,1,2-Trichloroethane	0.20142	0.21915	0.21915	0.100	8.80629	20.00000	Averaged	
54 Tetrachloroethene	0.42519	0.45322	0.45322	0.100	6.59067	20.00000	Averaged	
55 1,3-Dichloropropane	0.41403	0.45876	0.45876	0.100	10.80460	20.00000	Averaged	
56 2-Hexanone	250	300	0.16205	0.100	19.81889	0.000e+000	Linear	
57 Dibromochloromethane	50.00000	54.27342	0.34549	0.100	8.54684	0.000e+000	Linear	
58 1,2-Dibromoethane	50.00000	54.27020	0.27640	0.100	8.54040	0.000e+000	Linear	
60 Chlorobenzene	1.01731	1.08295	1.08295	0.300	6.45258	20.00000	Averaged	
61 1,1,1,2-Tetrachloroethane	50.00000	56.72747	0.39922	0.100	13.45494	0.000e+000	Linear	
62 Ethylbenzene	0.53432	0.59476	0.59476	0.100	11.31124	20.00000	Averaged	
63 m&p-Xylene	0.67643	0.72202	0.72202	0.100	6.74017	20.00000	Averaged	
65 o-Xylene	0.61779	0.70588	0.70588	0.100	14.25859	20.00000	Averaged	
66 Styrene	1.04212	1.19748	1.19748	0.100	14.90824	20.00000	Averaged	
67 Bromoform	50.00000	54.05470	0.36090	0.100	8.10941	0.000e+000	Linear	
68 Isopropylbenzene	1.65780	1.92385	1.92385	0.100	16.04870	20.00000	Averaged	
69 trans-1,4-Dichloro-2-butene	50.00000	189	0.37134	0.100	277	0.000e+000	Linear	
$ 70 4-Bromofluorobenzene	0.44819	0.50249	0.50249	0.100	12.11527	20.00000	Averaged	
71 Bromobenzene	0.59661	0.71114	0.71114	0.100	19.19527	20.00000	Averaged	
72 1,1,2,2-Tetrachloroethane	0.53398	0.57294	0.57294	0.300	7.29542	20.00000	Averaged	
73 1,2,3-Trichloropropane	50.00000	64.10311	0.75513	0.100	28.20621	0.000e+000	Linear	
74 n-Propylbenzene	3.95449	3.98969	3.98969	0.100	0.88999	20.00000	Averaged	
75 2-Chlorotoluene	2.18584	2.28459	2.28459	0.100	4.51759	20.00000	Averaged	
76 4-Chlorotoluene	0.77515	0.78630	0.78630	0.100	1.43910	20.00000	Averaged	
77 1,3,5-Trimethylbenzene	2.62924	2.67367	2.67367	0.100	1.68959	20.00000	Averaged	
78 tert-Butylbenzene	50.00000	39.16463	2.47831	0.100	-21.67074	0.000e+000	Linear	
79 1,2,4-Trimethylbenzene	2.56386	2.68313	2.68313	0.100	4.65194	20.00000	Averaged	
80 sec-Butylbenzene	3.59693	3.74268	3.74268	0.100	4.05199	20.00000	Averaged	
81 1,3-Dichlorobenzene	1.44643	1.57789	1.57789	0.100	9.08895	20.00000	Averaged	
83 p-Isopropyltoluene	2.97054	3.13812	3.13812	0.100	5.64144	20.00000	Averaged	

Pace Analytical Services, Inc.

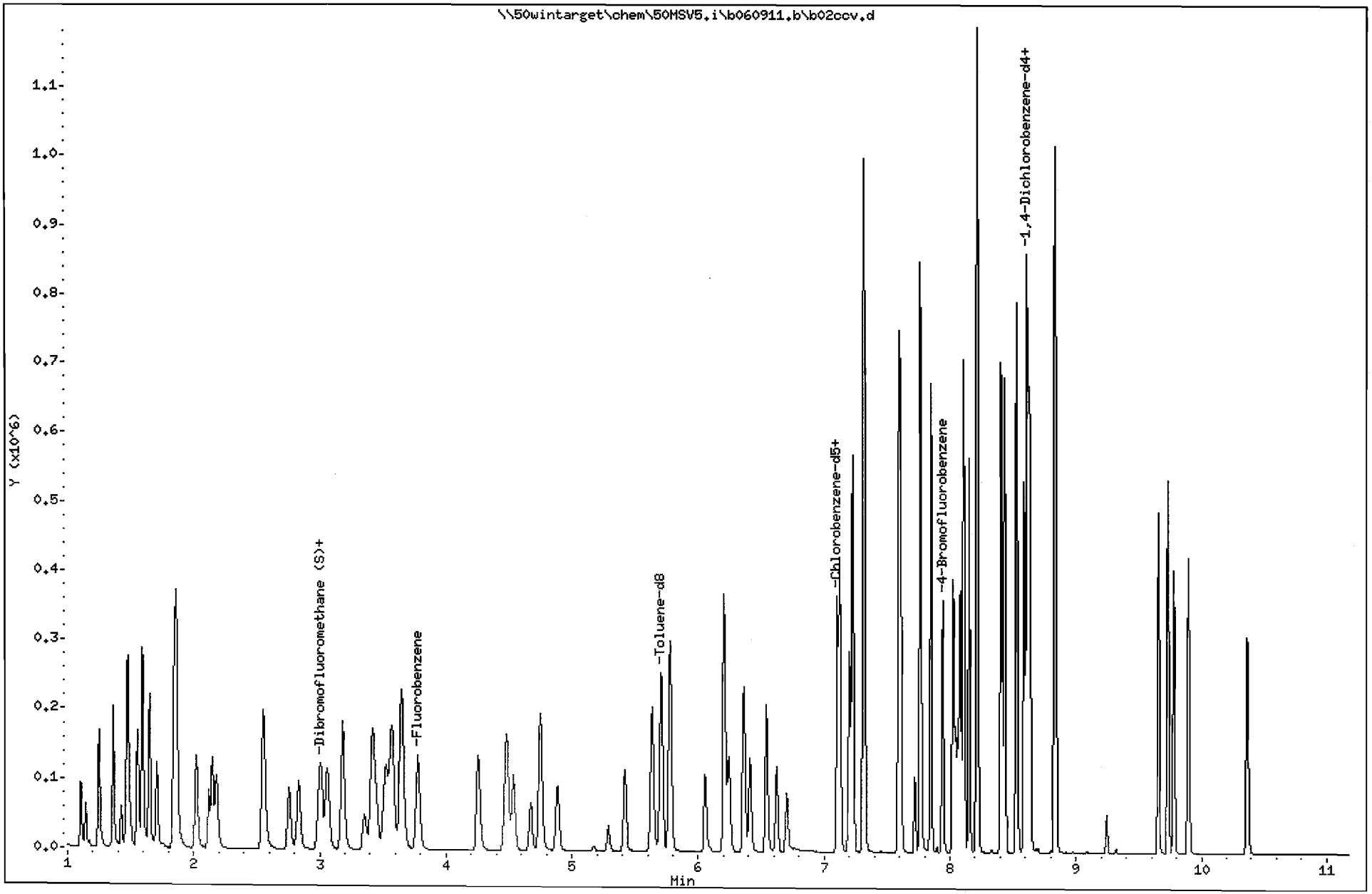
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i Injection Date: 09-JUN-2011 16:32
Lab File ID: b02ccv.d Init. Cal. Date(s): 02-JUN-2011 02-JUN-2011
Analysis Type: WATER Init. Cal. Times: 14:46 19:04
Lab Sample ID: ccv 34D-365 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
84 1,4-Dichlorobenzene	1.50410	1.57115	1.57115	0.100	4.45773	20.00000	Averaged	
85 1,2-Dichlorobenzene	1.31011	1.45073	1.45073	0.100	10.73346	20.00000	Averaged	
86 n-Butylbenzene	2.82574	2.97509	2.97509	0.100	5.28566	20.00000	Averaged	
87 1,2-Dibromo-3-chloropropane	50.00000	71.57701	0.08952	0.100	43.15403	0.000e+000	Linear	
88 1,2,4-Trichlorobenzene	0.88077	1.18753	1.18753	0.100	34.82891	20.00000	Averaged	<-
89 Hexachlorobutadiene	50.00000	62.41816	0.84163	0.100	24.83631	0.000e+000	Linear	
90 Naphthalene	1.44734	2.27848	2.27848	0.100	57.42488	20.00000	Averaged	<-
91 1,2,3-Trichlorobenzene	0.77356	1.12549	1.12549	0.100	45.49500	20.00000	Averaged	<-
92 2,methyl-naphthalene	50.00000	54.22871	1.31178	0.100	8.45741	0.000e+000	Linear	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b02ccv.d
Date : 09-JUN-2011 16:32
Client ID: ccv
Sample Info: ccv 34D-365
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b02ccv.d

Date : 09-JUN-2011 16:32

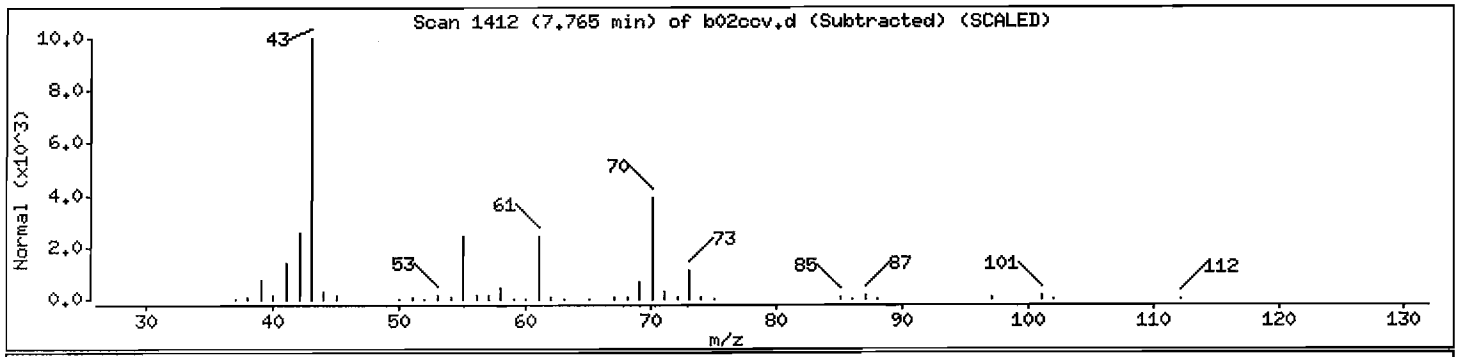
Client ID: ccv | Instrument: 50MSV5.i

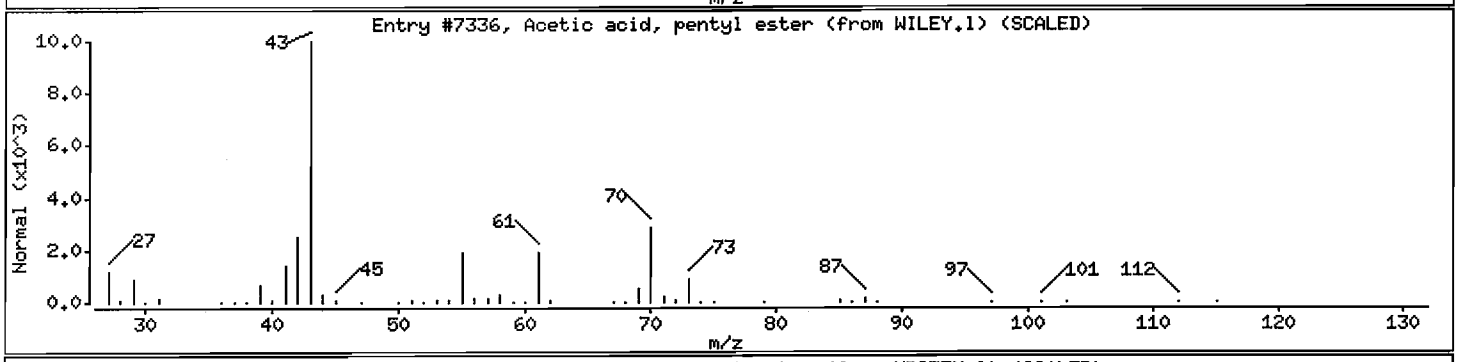
Sample Info: ccv 34D-365

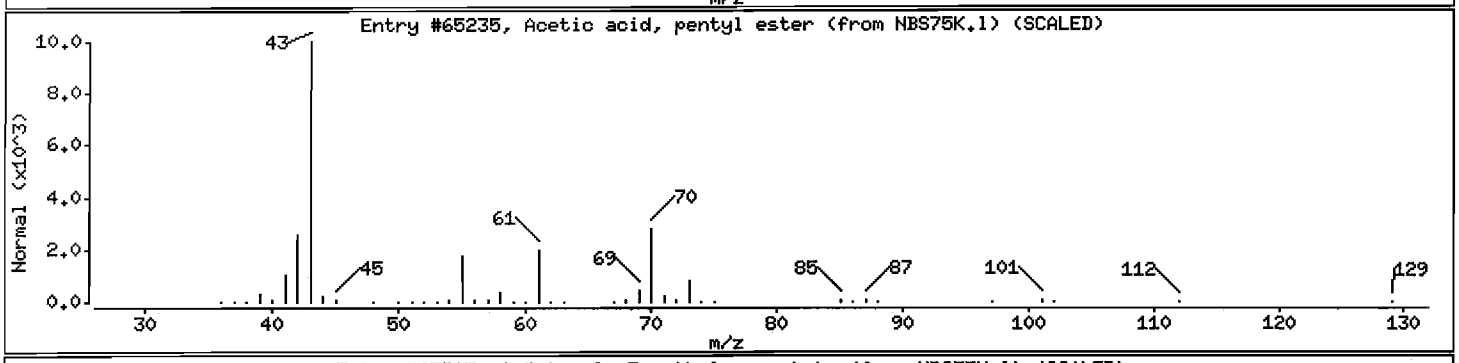
Purge Volume: 5.0 | Operator: rsw

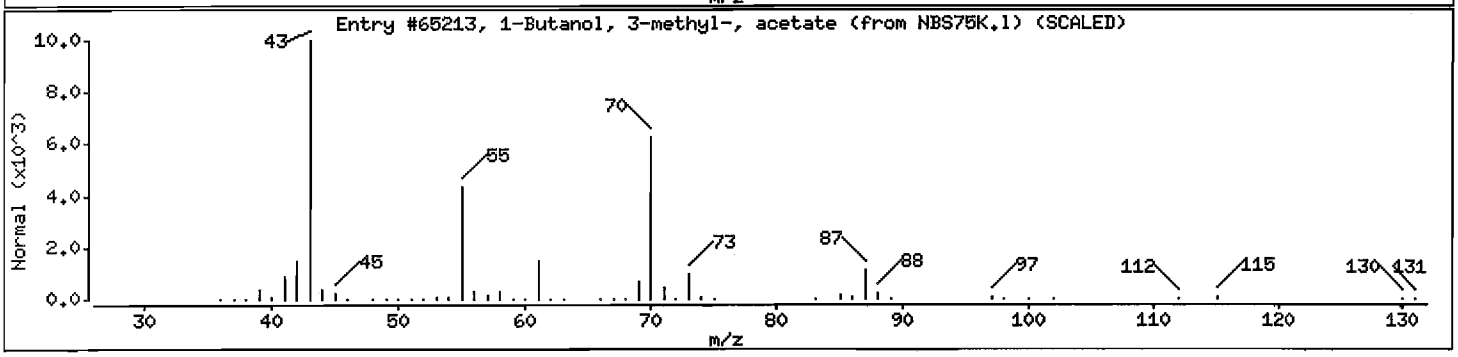
Column phase: DB-624 | Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY.l	7336	90	C7H14O2	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65235	83	C7H14O2	130
1-Butanol, 3-methyl-, acetate	123-92-2	NBS75K.l	65213	59	C7H14O2	130









5A

BFB ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Lab File ID: D00BFB BFB Injection Date: 06/10/11

Instrument ID: 50MSV5 BFB Injection Time: 0348

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	54.9
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	8.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	60.1
175	5.0 - 9.0% of mass 174	4.9 (8.2)1
176	Greater than 95.0%, but less than 101.0% of mass 174	58.5 (97.3)1
177	5.0 - 9.0% of mass 176	4.8 (8.2)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	D01CCV	06/10/11	0425
02	LCS	583599	D02LCS	06/10/11	0502
03	MB	583604	D03MB	06/10/11	0539
04	5049277002	5049277002	D04	06/10/11	0616
05	MS5049277002	MS5049277002	D05	06/10/11	0653
06	MSD504927700	MSD5049277002	D06	06/10/11	0730
07	5049277003	5049277003	D07	06/10/11	0808
08	5049277004	5049277004	D08	06/10/11	0845
09	5049277005	5049277005	D09	06/10/11	0922
10	5049277006	5049277006	D10	06/10/11	0959
11	5049277007	5049277007	D11	06/10/11	1036
12	5049277008	5049277008	D12	06/10/11	1113
13	5049363005	5049363005	D13	06/10/11	1151
14	5049363005	5049363005	D14	06/10/11	1228
15	5049363006	5049363006	D15	06/10/11	1306
16	5049363006	5049363006	D16	06/10/11	1344
17	5049363007	5049363007	D17	06/10/11	1422
18	5049363007	5049363007	D18	06/10/11	1500
19					
20					
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Instrument ID: 50MSV5 Calibration Date: 06/10/11 Time: 0425

Lab File ID: D01CCV Init. Calib. Date(s): 06/02/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Bromochloromethane	53.357	50.000	LINR	-6.714	
Chloromethane	38.583	50.000	AVRG	22.834	<-
Bromomethane	57.488	50.000	LINR	-14.98	
Vinyl Chloride	50.962	50.000	AVRG	-1.924	
Chloroethane	47.946	50.000	AVRG	4.1080	
Methylene Chloride	45.847	50.000	LINR	8.3060	
1,1-Dichloroethene	53.149	50.000	AVRG	-6.298	
1,1-Dichloroethane	41.771	50.000	AVRG	16.458	
1,2-Dichloroethene (trans)	44.408	50.000	AVRG	11.184	
Chloroform	56.246	50.000	AVRG	-12.49	
1,2-Dichloroethane	59.975	50.000	AVRG	-19.95	
1,1,1-Trichloroethane	59.945	50.000	AVRG	-19.89	
Carbon Tetrachloride	60.952	50.000	LINR	-21.90	<-
Bromodichloromethane	55.783	50.000	LINR	-11.57	
1,2-Dichloropropane	47.984	50.000	AVRG	4.0320	
trans-1,3-Dichloropropene	40.884	50.000	LINR	18.232	
Trichloroethene	53.776	50.000	AVRG	-7.552	
Dibromochloromethane	50.486	50.000	LINR	-0.972	
1,1,2-Trichloroethane	47.922	50.000	AVRG	4.1560	
Benzene	54.992	50.000	AVRG	-9.984	
cis-1,3-Dichloropropene	40.390	50.000	LINR	19.220	
Bromoform	49.088	50.000	LINR	1.8240	
Tetrachloroethene	60.838	50.000	AVRG	-21.68	<-
1,1,2,2-Tetrachloroethane	#46.753	50.000	AVRG	6.4940#	
Toluene	43.798	50.000	LINR	12.404	
Chlorobenzene	#47.661	50.000	AVRG	4.6780#	
Ethylbenzene	48.457	50.000	AVRG	3.0860	
Styrene	48.118	50.000	AVRG	3.7640	
Trichlorofluoromethane	55.006	50.000	AVRG	-10.01	
m&p-Xylene	91.382	100.00	AVRG	8.6180	
1,2-Dichloroethene (cis)	53.924	50.000	AVRG	-7.848	
o-Xylene	49.380	50.000	AVRG	1.2400	
1,2,3-Trichloropropane	42.307	50.000	LINR	15.386	
1,3-Dichlorobenzene	45.318	50.000	AVRG	9.3640	
1,4-Dichlorobenzene	43.439	50.000	AVRG	13.122	
Dibromomethane	51.986	50.000	LINR	-3.972	
1,2-Dichlorobenzene	47.887	50.000	AVRG	4.2260	
Dichlorodifluoromethane	64.054	50.000	AVRG	-28.11	<-

FORM VII VOA 1/87 Rev.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Instrument ID: 50MSV5 Calibration Date: 06/10/11 Time: 0425

Lab File ID: D01CCV Init. Calib. Date(s): 06/02/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
2,2-Dichloropropane	50.169	50.000	AVRG	-0.338	
1,1-Dichloropropene	56.720	50.000	AVRG	-13.44	
1,3-Dichloropropane	47.680	50.000	AVRG	4.6400	
1,2-Dibromoethane	47.962	50.000	LINR	4.0760	
1,1,1,2-Tetrachloroethane	49.940	50.000	LINR	0.1200	
Isopropylbenzene	52.740	50.000	AVRG	-5.480	
Bromobenzene	51.589	50.000	AVRG	-3.178	
n-Propylbenzene	42.523	50.000	AVRG	14.954	
2-Chlorotoluene	45.037	50.000	AVRG	9.9260	
4-Chlorotoluene	43.597	50.000	AVRG	12.806	
1,3,5-Trimethylbenzene	43.011	50.000	AVRG	13.978	
tert-Butylbenzene	42.299	50.000	LINR	15.402	
1,2,4-Trimethylbenzene	45.375	50.000	AVRG	9.2500	
sec-Butylbenzene	45.791	50.000	AVRG	8.4180	
p-Isopropyltoluene	44.043	50.000	AVRG	11.914	
n-Butylbenzene	41.906	50.000	AVRG	16.188	
1,2-Dibromo-3-chloropropane	62.488	50.000	LINR	-24.98	<-
1,2,4-Trichlorobenzene	49.541	50.000	AVRG	0.9180	
Hexachlorobutadiene	47.579	50.000	LINR	4.8420	
Naphthalene	67.000	50.000	AVRG	-34.00	<-
1,2,3-Trichlorobenzene	55.808	50.000	AVRG	-11.62	
Acrolein	771.05	1000.0	LINR	22.895	<-
Carbon Disulfide	81.200	100.00	LINR	18.800	
Acetone	228.43	250.00	LINR	8.6280	
Acrylonitrile	875.21	1000.0	AVRG	12.479	
Vinyl Acetate	180.85	200.00	LINR	9.5750	
2-Butanone	292.99	250.00	AVRG	-17.20	
2-Chloroethyl vinyl ether	76.022	100.00	LINR	23.978	<-
4-Methyl-2-Pentanone	215.05	250.00	LINR	13.980	
2-Hexanone	217.18	250.00	LINR	13.128	
Methyl-tert-butyl ether	86.676	100.00	LINR	13.324	
Iodomethane	91.216	100.00	LINR	8.7840	
trans-1,4-Dichloro-2-butene	41.179	50.000	LINR	17.642	
Ethyl Methacrylate	47.566	50.000	LINR	4.8680	
2,methyl-naphthalene	40.415	50.000	LINR	19.170	
n-Hexane	41.144	50.000	AVRG	17.712	
1,1,2trichlorotrifluoroetha	52.598	50.000	AVRG	-5.196	
1,2-dichlorotrifluoroethane	50.112	50.000	AVRG	-0.224	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B060911.B

Instrument ID: 50MSV5 Calibration Date: 06/10/11 Time: 0425

Lab File ID: D01CCV Init. Calib. Date(s): 06/02/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Tetrahydrofuran	53.926	50.000	LINR	-7.852	
allyl chloride	72.560	100.00	AVRG	27.440	<-
Diethyl ether	52.569	50.000	LINR	-5.138	
Isobutyl alcohol	43.985	50.000	LINR	12.030	
Methyl methacrylate	49.294	50.000	LINR	1.4120	
Propionitrile	52.086	50.000	LINR	-4.172	
tert-Butyl Alcohol	104.42	100.00	LINR	-4.420	
2,2,4-Trimethylpentane	49.633	50.000	AVRG	0.7340	
Methyl Acetate	43.397	50.000	AVRG	13.206	
Cyclohexane	52.499	50.000	AVRG	-4.998	
Methylcyclohexane	49.091	50.000	AVRG	1.8180	
Acetonitrile	36.153	50.000	AVRG	27.694	<-
Chloroprene	53.191	50.000	AVRG	-6.382	
Methacrylonitrile	360.40	250.00	AVRG	-44.16	<-
1,4-Dioxane	0.0000	50.000	AVRG	100.00	<-
Toluene-d8	45.599	50.000	AVRG	8.8020	
4-Bromofluorobenzene	55.426	50.000	AVRG	-10.85	
Dibromofluoromethane (S)	57.642	50.000	AVRG	-15.28	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d00bfb.d

Date : 10-JUN-2011 03:48

Client ID: bfb050

Instrument: 50MSV5.i

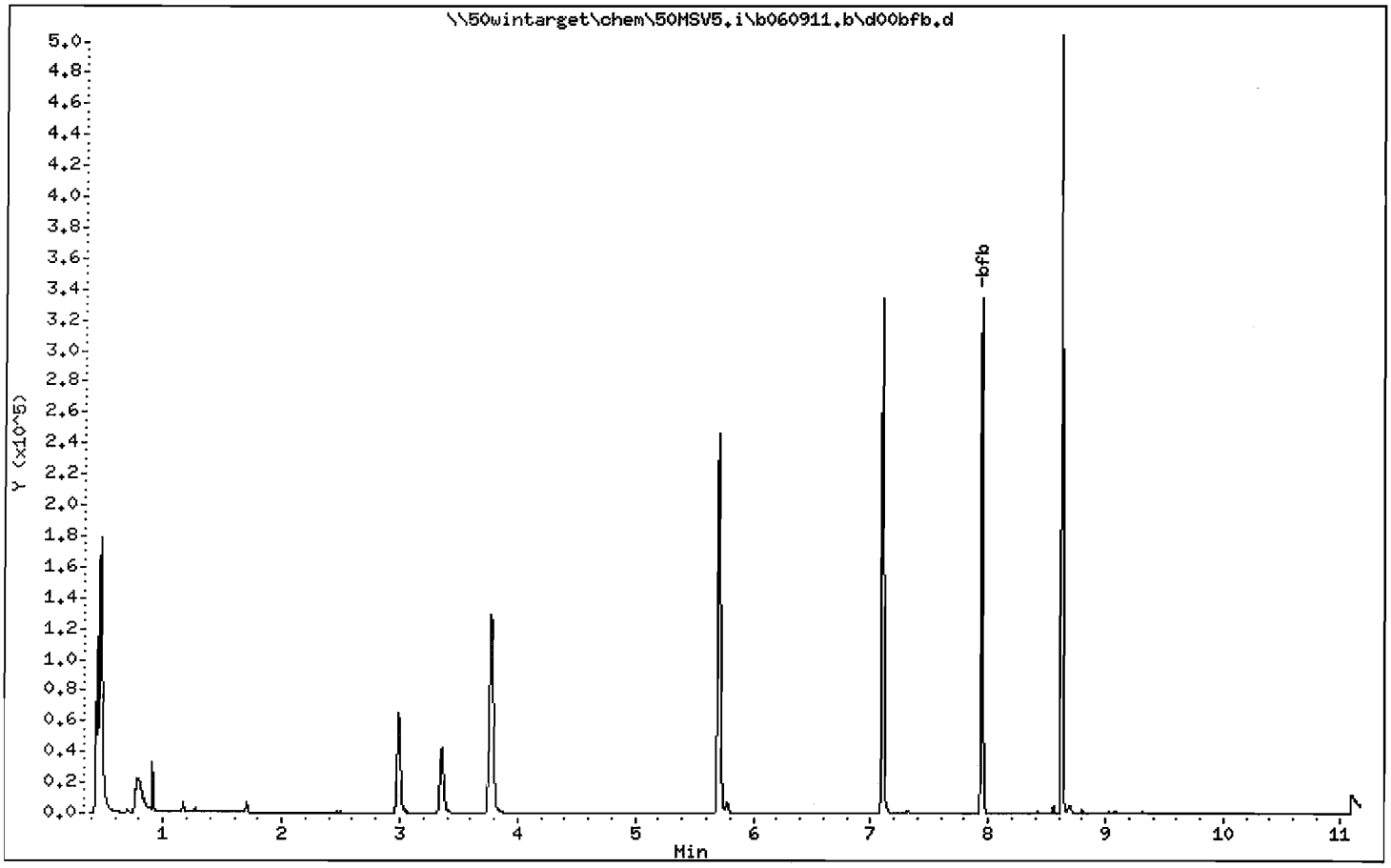
Sample Info: bfb

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d00bfb.d

Date : 10-JUN-2011 03:48

Client ID: bfb050

Instrument: 50MSV5.i

Sample Info: bfb

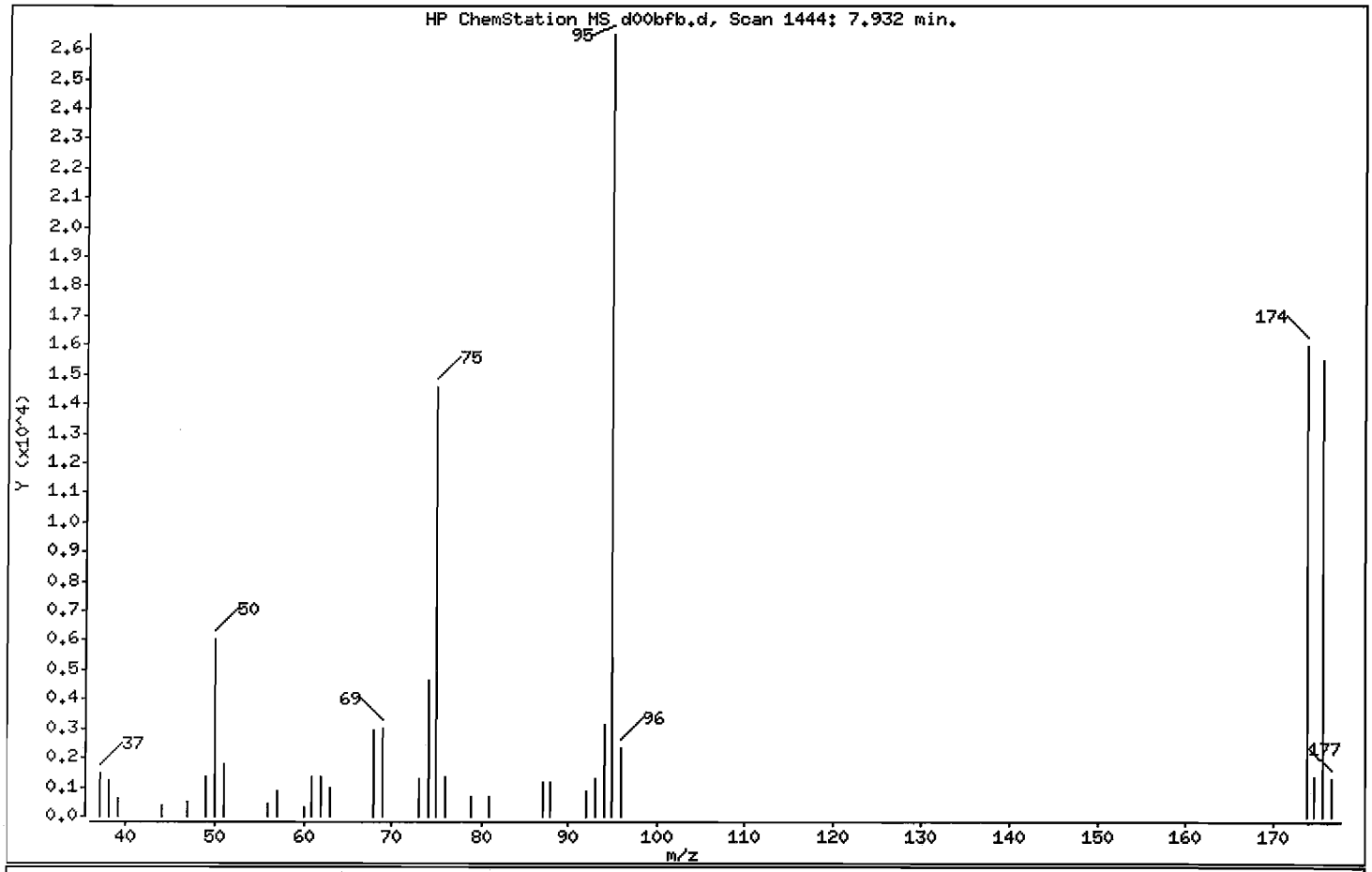
Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.85
75	30.00 - 60.00% of mass 95	54.92
96	5.00 - 9.00% of mass 95	8.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	60.13
175	5.00 - 9.00% of mass 174	4.94 (8.22)
176	95.00 - 101.00% of mass 174	58.48 (97.26)
177	5.00 - 9.00% of mass 176	4.81 (8.22)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d00bfb.d

Date : 10-JUN-2011 03:48

Client ID: bfb050 Instrument: 50MSV5.i

Sample Info: bfb

Volume Injected (uL): 1.0 Operator: rsw

Column phase: Column diameter: 2.00

Data File: d00bfb.d
Spectrum: HP ChemStation MS d00bfb.d, Scan 1444: 7.932 min.
Location of Maximum: 95.00
Number of points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1444	57.00	864	75.00	14552	95.00	26496
38.00	1215	60.00	301	76.00	1334	96.00	2290
39.00	585	61.00	1364	78.90	643	173.90	15932
44.00	357	62.00	1318	80.90	673	174.90	1310
47.00	478	63.00	971	87.00	1151	175.90	15496
49.00	1326	68.00	2951	88.00	1148	176.90	1274
50.00	6054	69.00	2982	92.00	835		
51.00	1737	73.00	1273	93.00	1293		
56.00	435	74.00	4613	94.00	3085		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\d01ccv.d
Lab Smp Id: ccv Client Smp ID: ccv
Inj Date : 10-JUN-2011 04:25
Operator : rsw Inst ID: 50MSV5.i
Smp Info : ccv
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 44 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.855	0.855	(0.227)	83100	50.0000	64.0
2 Chloromethane	50	0.933	0.933	(0.247)	49641	50.0000	38.6
3 Vinyl Chloride	62	0.970	0.970	(0.257)	45089	50.0000	51.0
4 Bromomethane	94	1.101	1.101	(0.292)	36103	50.0000	57.5
139 Methyl Acetate	43	1.650	1.650	(0.437)	10421	50.0000	43.4
5 Chloroethane	64	1.143	1.143	(0.303)	24664	50.0000	47.9
6 Trichlorofluoromethane	101	1.247	1.247	(0.331)	91820	50.0000	55.0
7 Diethyl ether	74	1.362	1.362	(0.361)	16497	50.0000	52.6
8 Acrolein	56	1.425	1.425	(0.378)	41621	1000.00	771
9 1,1-Dichloroethene	96	1.472	1.472	(0.390)	42306	50.0000	53.1
10 1,1,2trichlorotrifluoroethane	101	1.467	1.467	(0.389)	49461	50.0000	52.6
11 Acetone	43	1.493	1.493	(0.396)	23291	250.000	228
12 Iodomethane	142	1.551	1.551	(0.411)	135667	100.000	91.2
13 Carbon Disulfide	76	1.587	1.587	(0.421)	215087	100.000	81.2
142 Acetonitrile	39	1.645	1.645	(0.436)	58510	50.0000	36.2
14 allyl chloride	41	1.645	1.645	(0.436)	76962	100.000	72.6
15 Methylene Chloride	84	1.707	1.707	(0.453)	34049	50.0000	45.8
16 Acrylonitrile	53	1.838	1.838	(0.487)	109359	1000.00	875
17 tert-Butyl Alcohol	59	1.760	1.760	(0.466)	2652	100.000	104
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.491)	37647	50.0000	44.4
19 Methyl-tert-butyl ether	73	1.859	1.859	(0.493)	130734	100.000	86.7
20 n-Hexane	57	2.016	2.016	(0.534)	45777	50.0000	41.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.115	2.115	(0.561)	65641	50.0000	41.8
	23 Vinyl Acetate	43	2.147	2.147	(0.569)	169038	200.000	181
	143 Chloroprene	53	2.178	2.178	(0.577)	76460	50.0000	53.2
	24 2,2-Dichloropropane	77	2.550	2.550	(0.676)	60971	50.0000	50.2
	25 1,2-Dichloroethene (cis)	96	2.544	2.544	(0.674)	46982	50.0000	53.9
	26 2-Butanone	43	2.576	2.576	(0.683)	46167	250.000	293
	27 Propionitrile	54	2.628	2.628	(0.696)	2626	50.0000	52.1
	144 Methacrylonitrile	41	2.759	2.759	(0.731)	16573	250.000	360
	28 1,2-dichlorotrifluoroethane	67	1.357	1.357	(0.360)	48741	50.0000	50.1
	29 Bromochloromethane	49	2.754	2.754	(0.730)	29212	50.0000	53.4
	30 Tetrahydrofuran	42	2.816	2.816	(0.746)	5396	50.0000	53.9
	31 Chloroform	83	2.832	2.832	(0.751)	93882	50.0000	56.2
$	32 Dibromofluoromethane (S)	113	2.989	2.989	(0.792)	50907	50.0000	57.6
	33 1,1,1-Trichloroethane	97	3.005	3.005	(0.796)	88042	50.0000	59.9
	35 Carbon Tetrachloride	117	3.177	3.177	(0.842)	82393	50.0000	61.0
	36 1,1-Dichloropropene	75	3.177	3.177	(0.842)	70329	50.0000	56.7
	37 Isobutyl alcohol	43	3.522	3.522	(0.933)	28493	50.0000	44.0
	140 Cyclohexane	56	3.057	3.057	(0.810)	72468	50.0000	52.5
	38 Benzene	78	3.413	3.413	(0.904)	168532	50.0000	55.0
	39 1,2-Dichloroethane	62	3.444	3.444	(0.913)	64212	50.0000	60.0
	138 2,2,4-Trimethylpentane	57	3.522	3.522	(0.933)	163519	50.0000	49.6
	141 Methylcyclohexane	55	4.474	4.474	(1.186)	69127	50.0000	49.1
*	40 Fluorobenzene	96	3.773	3.773	(1.000)	174975	50.0000	
	41 Trichloroethene	95	4.255	4.255	(1.127)	54310	50.0000	53.8
	42 1,2-Dichloropropane	63	4.532	4.532	(1.201)	44366	50.0000	48.0
	43 Dibromomethane	93	4.668	4.668	(1.237)	27254	50.0000	52.0
	44 Methyl methacrylate	69	4.751	4.751	(1.259)	17435	50.0000	49.3
	45 Bromodichloromethane	83	4.882	4.882	(1.294)	68696	50.0000	55.8
	46 2-Chloroethyl vinyl ether	63	5.285	5.285	(0.744)	34979	100.000	76.0
	47 cis-1,3-Dichloropropene	75	5.416	5.416	(0.762)	65836	50.0000	40.4
	48 4-Methyl-2-Pentanone	43	5.635	5.635	(0.793)	137439	250.000	215
$	49 Toluene-d8	98	5.703	5.703	(0.803)	194636	50.0000	45.6
	50 Toluene	91	5.777	5.777	(0.813)	218568	50.0000	43.8
	51 trans-1,3-Dichloropropene	75	6.054	6.054	(0.852)	55896	50.0000	40.9
	52 Ethyl Methacrylate	69	6.205	6.205	(0.873)	41079	50.0000	47.6
	53 1,1,2-Trichloroethane	83	6.242	6.242	(0.879)	32234	50.0000	47.9
	54 Tetrachloroethene	166	6.362	6.362	(0.895)	86386	50.0000	60.8
	55 1,3-Dichloropropane	76	6.409	6.409	(0.902)	65924	50.0000	47.7
	56 2-Hexanone	43	6.540	6.540	(0.921)	97249	250.000	217
	57 Dibromochloromethane	129	6.619	6.619	(0.932)	53570	50.0000	50.5
	58 1,2-Dibromoethane	107	6.702	6.702	(0.943)	40790	50.0000	48.0
*	59 Chlorobenzene-d5	117	7.105	7.105	(1.000)	166975	50.0000	
	60 Chlorobenzene	112	7.126	7.126	(1.003)	161919	50.0000	47.7
	61 1,1,1,2-Tetrachloroethane	131	7.199	7.199	(1.013)	58480	50.0000	49.9
	62 Ethylbenzene	106	7.225	7.225	(1.017)	86464	50.0000	48.4
	63 m&p-Xylene	106	7.320	7.320	(1.030)	206426	100.000	91.4
	65 o-Xylene	106	7.597	7.597	(1.069)	101877	50.0000	49.4
	66 Styrene	104	7.607	7.607	(1.071)	167458	50.0000	48.1
	67 Bromoform	173	7.722	7.722	(0.896)	32967	50.0000	49.1
	68 Isopropylbenzene	105	7.848	7.848	(1.105)	291982	50.0000	52.7
	69 trans-1,4-Dichloro-2-butene	53	8.083	8.083	(1.138)	12604	50.0000	41.2
$	70 4-Bromofluorobenzene	95	7.942	7.942	(1.118)	82959	50.0000	55.4
	71 Bromobenzene	77	8.026	8.026	(1.130)	102785	50.0000	51.6
	72 1,1,2,2-Tetrachloroethane	83	8.047	8.047	(0.933)	50548	50.0000	46.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.067	8.067	(0.936)	50918	50.0000	42.3
74 n-Propylbenzene	91	8.109	8.109	(0.941)	340474	50.0000	42.5
75 2-Chlorotoluene	91	8.151	8.151	(0.945)	199324	50.0000	45.0
76 4-Chlorotoluene	126	8.219	8.219	(0.953)	68425	50.0000	43.6
77 1,3,5-Trimethylbenzene	105	8.214	8.214	(0.953)	228969	50.0000	43.0
78 tert-Butylbenzene	119	8.407	8.407	(0.975)	270771	50.0000	42.3
79 1,2,4-Trimethylbenzene	105	8.434	8.434	(0.978)	235550	50.0000	45.4
80 sec-Butylbenzene	105	8.528	8.528	(0.989)	333489	50.0000	45.8
81 1,3-Dichlorobenzene	146	8.585	8.585	(0.996)	132720	50.0000	45.3
* 82 1,4-Dichlorobenzene-d4	152	8.622	8.622	(1.000)	101237	50.0000	
83 p-Isopropyltoluene	119	8.611	8.611	(0.999)	264897	50.0000	44.0
84 1,4-Dichlorobenzene	146	8.638	8.638	(1.002)	132289	50.0000	43.4
85 1,2-Dichlorobenzene	146	8.842	8.842	(1.025)	127026	50.0000	47.9
86 n-Butylbenzene	91	8.831	8.831	(1.024)	239760	50.0000	41.9
87 1,2-Dibromo-3-chloropropane	155	9.244	9.244	(1.072)	7867	50.0000	62.5
88 1,2,4-Trichlorobenzene	180	9.657	9.657	(1.120)	88348	50.0000	49.5
89 Hexachlorobutadiene	225	9.736	9.736	(1.129)	63991	50.0000	47.6
90 Naphthalene	128	9.783	9.783	(1.135)	196342	50.0000	67.0
91 1,2,3-Trichlorobenzene	180	9.898	9.898	(1.148)	87409	50.0000	55.8
92 2,methyl-naphthalene	142	10.369	10.369	(1.203)	95087	50.0000	40.4

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: d01ccv.d
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info:

Calibration Date: 09-JUN-2011
Calibration Time: 16:32
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	205436	102718	410872	174975	-14.83
59 Chlorobenzene-d5	169478	84739	338956	166975	-1.48
82 1,4-Dichlorobenze	88181	44091	176362	101237	14.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF

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.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i
Lab File ID: d01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m

Injection Date: 10-JUN-2011 04:25
Init. Cal. Date(s): 02-JUN-2011 02-JUN-2011
Init. Cal. Times: 14:46 19:04
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.37072	0.47492	0.47492	0.100	28.10774	20.00000	Averaged	<-
2 Chloromethane	0.36766	0.28370	0.28370	0.100	-22.83441	20.00000	Averaged	<-
3 Vinyl Chloride	0.25282	0.25769	0.25769	0.100	1.92470	20.00000	Averaged	
4 Bromomethane	50.00000	57.48773	0.20633	0.100	14.97546	0.000e+000	Linear	
139 Methyl Acetate	0.06862	0.05956	0.05956	0.100	-13.20542	20.00000	Averaged	
5 Chloroethane	0.14700	0.14096	0.14096	0.100	-4.10891	20.00000	Averaged	
6 Trichlorofluoromethane	0.47700	0.52476	0.52476	0.100	10.01195	20.00000	Averaged	
7 Diethyl ether	50.00000	52.56915	0.09428	0.100	5.13831	0.000e+000	Linear	
8 Acrolein	1000	771	0.01189	0.100	-22.89474	0.000e+000	Linear	
9 1,1-Dichloroethene	0.22746	0.24178	0.24178	0.100	6.29754	20.00000	Averaged	
10 1,1,2trichlorotrifluoroetha	0.26871	0.28267	0.28267	0.100	5.19673	20.00000	Averaged	
11 Acetone	250	228	0.02662	0.100	-8.62874	0.000e+000	Linear	
12 Iodomethane	100	91.21554	0.38768	0.100	-8.78446	0.000e+000	Linear	
13 Carbon Disulfide	100	81.20004	0.61462	0.100	-18.79996	0.000e+000	Linear	
142 Acetonitrile	0.46247	0.33439	0.33439	0.100	-27.69406	20.00000	Averaged	<-
14 allyl chloride	0.30309	0.21992	0.21992	0.100	-27.43954	20.00000	Averaged	<-
15 Methylene Chloride	50.00000	45.84724	0.19459	0.100	-8.30553	0.000e+000	Linear	
16 Acrylonitrile	0.03571	0.03125	0.03125	0.100	-12.47883	20.00000	Averaged	
17 tert-Butyl Alcohol	100	104	0.00758	0.100	4.41911	0.000e+000	Linear	
18 1,2-Dichloroethene (trans)	0.24225	0.21516	0.21516	0.100	-11.18359	20.00000	Averaged	
19 Methyl-tert-butyl ether	100	86.67646	0.37358	0.100	-13.32354	0.000e+000	Linear	
20 n-Hexane	0.31793	0.26162	0.26162	0.100	-17.71153	20.00000	Averaged	
21 1,1-Dichloroethane	0.44905	0.37515	0.37515	0.100	-16.45772	20.00000	Averaged	
23 Vinyl Acetate	200	181	0.24152	0.100	-9.57723	0.000e+000	Linear	
143 Chloroprene	0.41077	0.43698	0.43698	0.100	6.38100	20.00000	Averaged	
24 2,2-Dichloropropane	0.34728	0.34846	0.34846	0.100	0.33787	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	0.24897	0.26851	0.26851	0.100	7.84834	20.00000	Averaged	
26 2-Butanone	0.04503	0.05277	0.05277	0.100	17.19777	20.00000	Averaged	
27 Propionitrile	50.00000	52.08587	0.01501	0.100	4.17174	0.000e+000	Linear	
144 Methacrylonitrile	0.01314	0.01894	0.01894	0.100	44.16158	20.00000	Averaged	<-
28 1,2-dichlorotrifluoroethane	0.27794	0.27856	0.27856	0.100	0.22373	20.00000	Averaged	
29 Bromochloromethane	50.00000	53.35709	0.16695	0.100	6.71417	0.000e+000	Linear	
30 Tetrahydrofuran	50.00000	53.92618	0.03084	0.100	7.85236	0.000e+000	Linear	
31 Chloroform	0.47696	0.53655	0.53655	0.100	12.49218	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.25237	0.29094	0.29094	0.100	15.28324	20.00000	Averaged	
33 1,1,1-Trichloroethane	0.41969	0.50317	0.50317	0.100	19.89004	20.00000	Averaged	
35 Carbon Tetrachloride	50.00000	60.95155	0.47088	0.100	21.90309	0.000e+000	Linear	
36 1,1-Dichloropropene	0.35432	0.40194	0.40194	0.100	13.44023	20.00000	Averaged	
37 Isobutyl alcohol	50.00000	43.98459	0.16284	0.100	-12.03082	0.000e+000	Linear	
140 Cyclohexane	0.39445	0.41416	0.41416	0.100	4.99836	20.00000	Averaged	
38 Benzene	0.87574	0.96318	0.96318	0.100	9.98382	20.00000	Averaged	
39 1,2-Dichloroethane	0.30594	0.36698	0.36698	0.100	19.95009	20.00000	Averaged	
138 2,2,4-Trimethylpentane	0.94145	0.93453	0.93453	0.100	-0.73483	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV5.i
Lab File ID: d01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m

Injection Date: 10-JUN-2011 04:25
Init. Cal. Date(s): 02-JUN-2011 02-JUN-2011
Init. Cal. Times: 14:46 19:04
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
141 Methylcyclohexane	0.40238	0.39507	0.39507	0.100	-1.81718	20.00000	Averaged
41 Trichloroethene	0.28859	0.31039	0.31039	0.100	7.55240	20.00000	Averaged
42 1,2-Dichloropropane	0.26421	0.25356	0.25356	0.100	-4.03118	20.00000	Averaged
43 Dibromomethane	50.00000	51.98584	0.15576	0.100	3.97169	0.000e+000	Linear
44 Methyl methacrylate	50.00000	49.29381	0.09964	0.100	-1.41239	0.000e+000	Linear
45 Bromodichloromethane	50.00000	55.78342	0.39260	0.100	11.56683	0.000e+000	Linear
46 2-Chloroethyl vinyl ether	100	76.02221	0.10474	0.100	-23.97779	0.000e+000	Linear
145 1,4-Dioxane	0.00137	++++	++++	0.100	++++	20.00000	Averaged <-
47 cis-1,3-Dichloropropene	50.00000	40.38973	0.39429	0.100	-19.22053	0.000e+000	Linear
48 4-Methyl-2-Pentanone	250	215	0.16462	0.100	-13.98000	0.000e+000	Linear
$ 49 Toluene-d8	1.27817	1.16566	1.16566	0.100	-8.80213	20.00000	Averaged
50 Toluene	50.00000	43.79840	1.30899	0.100	-12.40319	0.000e+000	Linear
51 trans-1,3-Dichloropropene	50.00000	40.88409	0.33476	0.100	-18.23181	0.000e+000	Linear
52 Ethyl Methacrylate	50.00000	47.56603	0.24602	0.100	-4.86793	0.000e+000	Linear
53 1,1,2-Trichloroethane	0.20142	0.19305	0.19305	0.100	-4.15520	20.00000	Averaged
54 Tetrachloroethene	0.42519	0.51736	0.51736	0.100	21.67623	20.00000	Averaged <-
55 1,3-Dichloropropane	0.41403	0.39481	0.39481	0.100	-4.64081	20.00000	Averaged
56 2-Hexanone	250	217	0.11648	0.100	-13.12685	0.000e+000	Linear
57 Dibromochloromethane	50.00000	50.48629	0.32083	0.100	0.97258	0.000e+000	Linear
58 1,2-Dibromoethane	50.00000	47.96240	0.24429	0.100	-4.07520	0.000e+000	Linear
60 Chlorobenzene	1.01731	0.96972	0.96972	0.300	-4.67816	20.00000	Averaged
61 1,1,1,2-Tetrachloroethane	50.00000	49.94010	0.35023	0.100	-0.11980	0.000e+000	Linear
62 Ethylbenzene	0.53432	0.51783	0.51783	0.100	-3.08657	20.00000	Averaged
63 m&p-Xylene	0.67643	0.61813	0.61813	0.100	-8.61804	20.00000	Averaged
65 o-Xylene	0.61779	0.61013	0.61013	0.100	-1.23912	20.00000	Averaged
66 Styrene	1.04212	1.00289	1.00289	0.100	-3.76425	20.00000	Averaged
67 Bromoform	50.00000	49.08779	0.32564	0.100	-1.82441	0.000e+000	Linear
68 Isopropylbenzene	1.65780	1.74866	1.74866	0.100	5.48060	20.00000	Averaged
69 trans-1,4-Dichloro-2-butene	50.00000	41.17880	0.07548	0.100	-17.64241	0.000e+000	Linear
$ 70 4-Bromofluorobenzene	0.44819	0.49683	0.49683	0.100	10.85287	20.00000	Averaged
71 Bromobenzene	0.59661	0.61557	0.61557	0.100	3.17753	20.00000	Averaged
72 1,1,2,2-Tetrachloroethane	0.53398	0.49930	0.49930	0.300	-6.49431	20.00000	Averaged
73 1,2,3-Trichloropropane	50.00000	42.30734	0.50296	0.100	-15.38532	0.000e+000	Linear
74 n-Propylbenzene	3.95449	3.36314	3.36314	0.100	-14.95397	20.00000	Averaged
75 2-Chlorotoluene	2.18584	1.96888	1.96888	0.100	-9.92558	20.00000	Averaged
76 4-Chlorotoluene	0.77515	0.67589	0.67589	0.100	-12.80516	20.00000	Averaged
77 1,3,5-Trimethylbenzene	2.62924	2.26171	2.26171	0.100	-13.97861	20.00000	Averaged
78 tert-Butylbenzene	50.00000	42.29859	2.67462	0.100	-15.40283	0.000e+000	Linear
79 1,2,4-Trimethylbenzene	2.56386	2.32672	2.32672	0.100	-9.24944	20.00000	Averaged
80 sec-Butylbenzene	3.59693	3.29414	3.29414	0.100	-8.41808	20.00000	Averaged
81 1,3-Dichlorobenzene	1.44643	1.31098	1.31098	0.100	-9.36396	20.00000	Averaged
83 p-Isopropyltoluene	2.97054	2.61660	2.61660	0.100	-11.91478	20.00000	Averaged

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

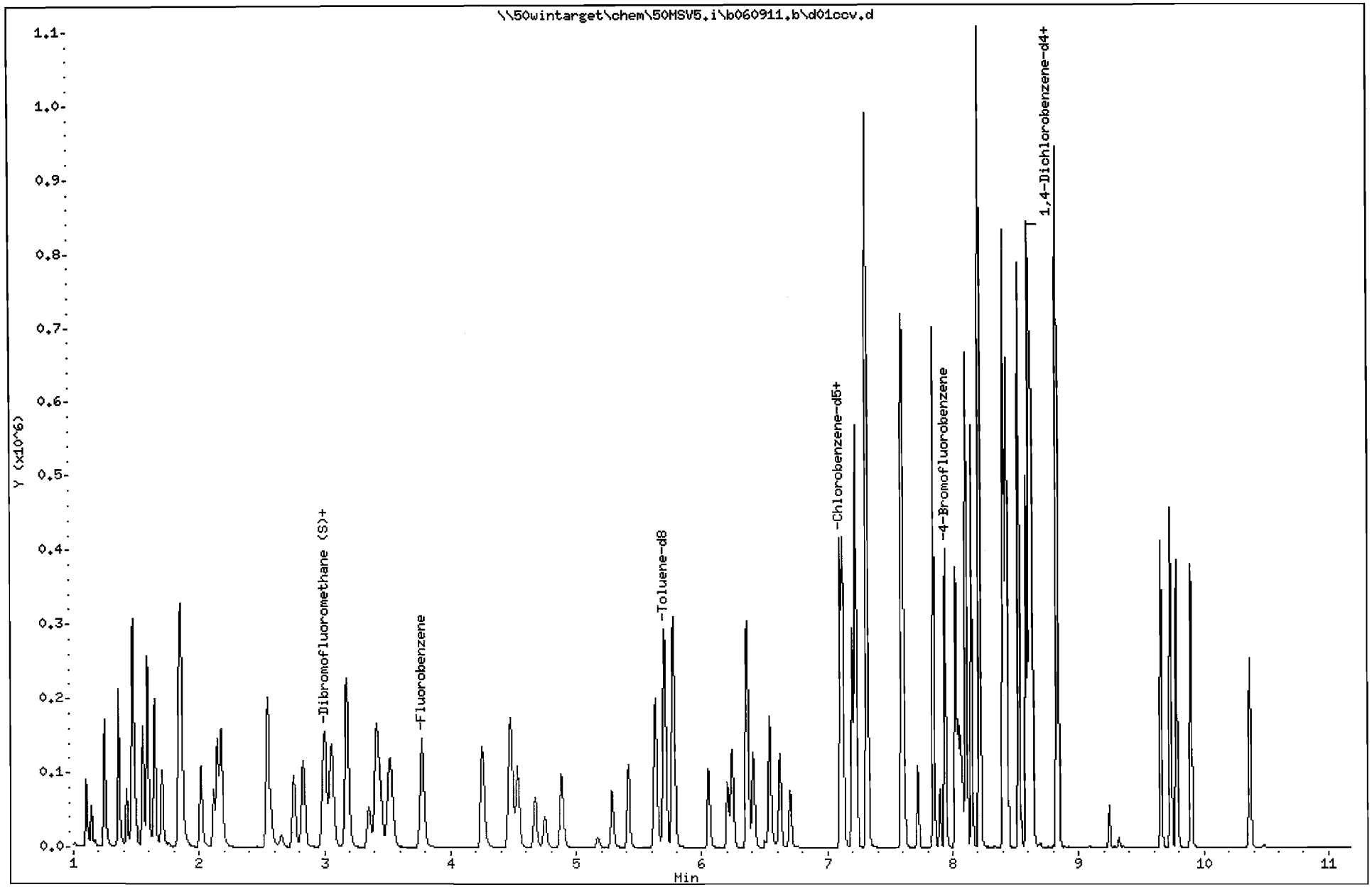
Instrument ID: 50MSV5.i
Lab File ID: d01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m

Injection Date: 10-JUN-2011 04:25
Init. Cal. Date(s): 02-JUN-2011 02-JUN-2011
Init. Cal. Times: 14:46 19:04
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
84 1,4-Dichlorobenzene	1.50410	1.30673	1.30673	0.100	-13.12234	20.00000	Averaged	
85 1,2-Dichlorobenzene	1.31011	1.25474	1.25474	0.100	-4.22641	20.00000	Averaged	
86 n-Butylbenzene	2.82574	2.36830	2.36830	0.100	-16.18804	20.00000	Averaged	
87 1,2-Dibromo-3-chloropropane	50.00000	62.48817	0.07771	0.100	24.97634	0.000e+000	Linear	
88 1,2,4-Trichlorobenzene	0.88077	0.87268	0.87268	0.100	-0.91778	20.00000	Averaged	
89 Hexachlorobutadiene	50.00000	47.57892	0.63209	0.100	-4.84215	0.000e+000	Linear	
90 Naphthalene	1.44734	1.93943	1.93943	0.100	33.99936	20.00000	Averaged	<-
91 1,2,3-Trichlorobenzene	0.77356	0.86341	0.86341	0.100	11.61500	20.00000	Averaged	
92 2,methyl-naphthalene	50.00000	40.41527	0.93925	0.100	-19.16946	0.000e+000	Linear	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d01ccv.d
Date : 10-JUN-2011 04:25
Client ID: ccv
Sample Info: ccv
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsw
Column diameter: 0.18



5A
BFB ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061011.B

Lab File ID: C01CCV-BFB BFB Injection Date: 06/10/11

Instrument ID: 50MSV1 BFB Injection Time: 2005

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	46.4
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	89.9
175	5.0 - 9.0% of mass 174	6.9 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	90.6 (100.8)1
177	5.0 - 9.0% of mass 176	6.1 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	C01CCV	06/10/11	2005
02	LCS	584128	C02LCS	06/10/11	2040
03	MB	584123	C03MB	06/10/11	2114
04	5049399001	5049399001	C04	06/10/11	2149
05	5049399005	5049399005	C05	06/10/11	2223
06	5049399008	5049399008	C06	06/10/11	2256
07	5049245007	5049245007	C07	06/10/11	2330
08	5049270001	5049270001	C08	06/11/11	0008
09	5049270002	5049270002	C09	06/11/11	0042
10	5049491001	5049491001	C10	06/11/11	0116
11	5049491002	5049491002	C11	06/11/11	0234
12	5049491003	5049491003	C12	06/11/11	0308
13	5049270003	5049270003	C13	06/11/11	0343
14	5049254004	5049254004	C14	06/11/11	0417
15	5049254006	5049254006	C15	06/11/11	0453
16	5049254009	5049254009	C16	06/11/11	0527
17	5049254009	5049254009	C17	06/11/11	0601
18	5049254010	5049254010	C18	06/11/11	0634
19	5049254010	5049254010	C19	06/11/11	0707
20	5049277003	5049277003	C20	06/11/11	0743
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061011.B

Instrument ID: 50MSV1 Calibration Date: 06/10/11 Time: 2005

Lab File ID: C01CCV Init. Calib. Date(s): 06/10/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Bromochloromethane	58.455	50.000	LINR	-16.91	
Chloromethane	39.311	50.000	LINR	21.378	<-
Bromomethane	44.859	50.000	LINR	10.282	
Vinyl Chloride	45.246	50.000	AVRG	9.5080	
Chloroethane	44.012	50.000	AVRG	11.976	
Methylene Chloride	46.104	50.000	AVRG	7.7920	
1,1-Dichloroethene	55.421	50.000	AVRG	-10.84	
1,1-Dichloroethane	47.577	50.000	AVRG	4.8460	
1,2-Dichloroethene (trans)	49.191	50.000	AVRG	1.6180	
Chloroform	51.073	50.000	AVRG	-2.146	
1,2-Dichloroethane	50.620	50.000	AVRG	-1.240	
1,1,1-Trichloroethane	51.579	50.000	AVRG	-3.158	
Carbon Tetrachloride	50.882	50.000	LINR	-1.764	
Bromodichloromethane	53.061	50.000	AVRG	-6.122	
1,2-Dichloropropane	53.118	50.000	AVRG	-6.236	
trans-1,3-Dichloropropene	49.244	50.000	AVRG	1.5120	
Trichloroethene	51.431	50.000	AVRG	-2.862	
Dibromochloromethane	51.960	50.000	AVRG	-3.920	
1,1,2-Trichloroethane	49.057	50.000	AVRG	1.8860	
Benzene	49.732	50.000	AVRG	0.5360	
cis-1,3-Dichloropropene	50.568	50.000	AVRG	-1.136	
Bromoform	42.125	50.000	LINR	15.750	
Tetrachloroethene	52.538	50.000	AVRG	-5.076	
1,1,2,2-Tetrachloroethane	#48.435	50.000	AVRG	3.1300#	
Toluene	47.710	50.000	AVRG	4.5800	
Chlorobenzene	#50.506	50.000	AVRG	-1.012#	
Ethylbenzene	55.812	50.000	LINR	-11.62	
Styrene	55.889	50.000	LINR	-11.78	
Trichlorofluoromethane	45.408	50.000	AVRG	9.1840	
m&p-Xylene	114.67	100.00	LINR	-14.67	
1,2-Dichloroethene (cis)	52.112	50.000	AVRG	-4.224	
o-Xylene	46.954	50.000	AVRG	6.0920	
1,2,3-Trichloropropane	46.757	50.000	AVRG	6.4860	
1,3-Dichlorobenzene	45.272	50.000	AVRG	9.4560	
1,4-Dichlorobenzene	44.445	50.000	AVRG	11.110	
Dibromomethane	51.092	50.000	AVRG	-2.184	
1,2-Dichlorobenzene	47.295	50.000	AVRG	5.4100	
Dichlorodifluoromethane	45.451	50.000	AVRG	9.0980	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061011.B

Instrument ID: 50MSV1 Calibration Date: 06/10/11 Time: 2005

Lab File ID: C01CCV Init. Calib. Date(s): 06/10/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
2,2-Dichloropropane	51.802	50.000	AVRG	-3.604	
1,1-Dichloropropene	54.681	50.000	LINR	-9.362	
1,3-Dichloropropane	48.978	50.000	AVRG	2.0440	
1,2-Dibromoethane	48.199	50.000	AVRG	3.6020	
1,1,1,2-Tetrachloroethane	52.267	50.000	AVRG	-4.534	
Isopropylbenzene	49.303	50.000	AVRG	1.3940	
Bromobenzene	47.021	50.000	AVRG	5.9580	
n-Propylbenzene	51.406	50.000	AVRG	-2.812	
2-Chlorotoluene	47.461	50.000	AVRG	5.0780	
4-Chlorotoluene	49.062	50.000	AVRG	1.8760	
1,3,5-Trimethylbenzene	47.754	50.000	AVRG	4.4920	
tert-Butylbenzene	50.042	50.000	AVRG	++++++	
1,2,4-Trimethylbenzene	48.451	50.000	AVRG	3.0980	
sec-Butylbenzene	50.635	50.000	AVRG	-1.270	
p-Isopropyltoluene	48.843	50.000	AVRG	2.3140	
n-Butylbenzene	48.743	50.000	AVRG	2.5140	
1,2-Dibromo-3-chloropropane	51.032	50.000	LINR	-2.064	
1,2,4-Trichlorobenzene	45.171	50.000	AVRG	9.6580	
Hexachlorobutadiene	48.908	50.000	AVRG	2.1840	
Naphthalene	44.138	50.000	AVRG	11.724	
1,2,3-Trichlorobenzene	46.678	50.000	AVRG	6.6440	
Acrolein	917.42	1000.0	AVRG	8.2580	
Carbon Disulfide	147.96	100.00	LINR	-47.96	<-
Acetone	284.73	250.00	LINR	-13.89	
Acrylonitrile	1067.9	1000.0	LINR	-6.790	
Vinyl Acetate	167.40	200.00	LINR	16.300	
2-Butanone	243.81	250.00	AVRG	2.4760	
2-Chloroethyl vinyl ether	75.643	100.00	AVRG	24.357	<-
4-Methyl-2-Pentanone	277.07	250.00	LINR	-10.83	
2-Hexanone	272.72	250.00	LINR	-9.088	
Methyl-tert-butyl ether	105.72	100.00	LINR	-5.720	
Iodomethane	100.73	100.00	LINR	-0.730	
trans-1,4-Dichloro-2-butene	47.678	50.000	LINR	4.6440	
Ethyl Methacrylate	48.871	50.000	AVRG	2.2580	
2,methyl-naphthalene	46.029	50.000	AVRG	7.9420	
n-Hexane	48.514	50.000	AVRG	2.9720	
1,1,2trichlorotrifluoroetha	55.497	50.000	AVRG	-10.99	
1,2-dichlorotrifluoroethane	53.371	50.000	AVRG	-6.742	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061011.B

Instrument ID: 50MSV1 Calibration Date: 06/10/11 Time: 2005

Lab File ID: C01CCV Init. Calib. Date(s): 06/10/11

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Tetrahydrofuran	36.313	50.000	AVRG	27.374	<-
allyl chloride	108.17	100.00	LINR	-8.170	
Diethyl ether	53.755	50.000	AVRG	-7.510	
Isobutyl alcohol	51.752	50.000	LINR	-3.504	
Methyl methacrylate	51.395	50.000	LINR	-2.790	
Propionitrile	53.430	50.000	AVRG	-6.860	
tert-Butyl Alcohol	97.675	100.00	AVRG	2.3250	
Methyl Acetate	49.600	50.000	LINR	0.8000	
Cyclohexane	52.150	50.000	LINR	-4.300	
Methylcyclohexane	54.027	50.000	AVRG	-8.054	
1,4-Dioxane	0.0000	1000.0	AVRG	100.00	<-
Acetonitrile	1210.6	1000.0	LINR	-21.06	<-
Methacrylonitrile	229.96	250.00	AVRG	8.0160	
isopropyl acetate	40.332	50.000	AVRG	19.336	
n-amyl acetate	0.0000	50.000	AVRG	100.00	<-
Chloroprene	52.718	50.000	AVRG	-5.436	
2,2,4-Trimethylpentane	50.995	50.000	AVRG	-1.990	
Toluene-d8	49.340	50.000	AVRG	1.3200	
4-Bromofluorobenzene	47.456	50.000	AVRG	5.0880	
Dibromofluoromethane (S)	49.617	50.000	AVRG	0.7660	

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\c01ccv-bfb.d
Lab Smp Id: bfb050 34D-354 Client Smp ID: bfb050
Inj Date : 10-JUN-2011 20:05 MS Autotune Date: 21-AUG-1992 10:13
Operator : rsw Inst ID: 50MSV1.i
Smp Info : ccv
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-bfb390.m
Meth Date : 15-Jun-2011 18:03 rwrede Quant Type: ISTD
Cal Date : 25-MAY-2001 16:00 Cal File: 0201002.D
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.113	8.417	(0.000)	95	22976			100.00- 100.00	100.00
8.113	8.417	(0.000)	50	3797			15.00- 40.00	16.53
8.113	8.417	(0.000)	75	10671			30.00- 60.00	46.44
8.113	8.417	(0.000)	96	1563			5.00- 9.00	6.80
8.113	8.417	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.113	8.417	(0.000)	174	20664			50.00- 100.00	89.94
8.113	8.417	(0.000)	175	1582			5.00- 9.00	7.66
8.113	8.417	(0.000)	176	20824			95.00- 101.00	100.77
8.113	8.417	(0.000)	177	1394			5.00- 9.00	6.69
8.113	8.417	(0.000)	95	22976			100.00- 100.00	100.00

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\c01ccv-bfb.d

Date : 10-JUN-2011 20:05

Client ID: bfb050

Instrument: 50MSV1.i

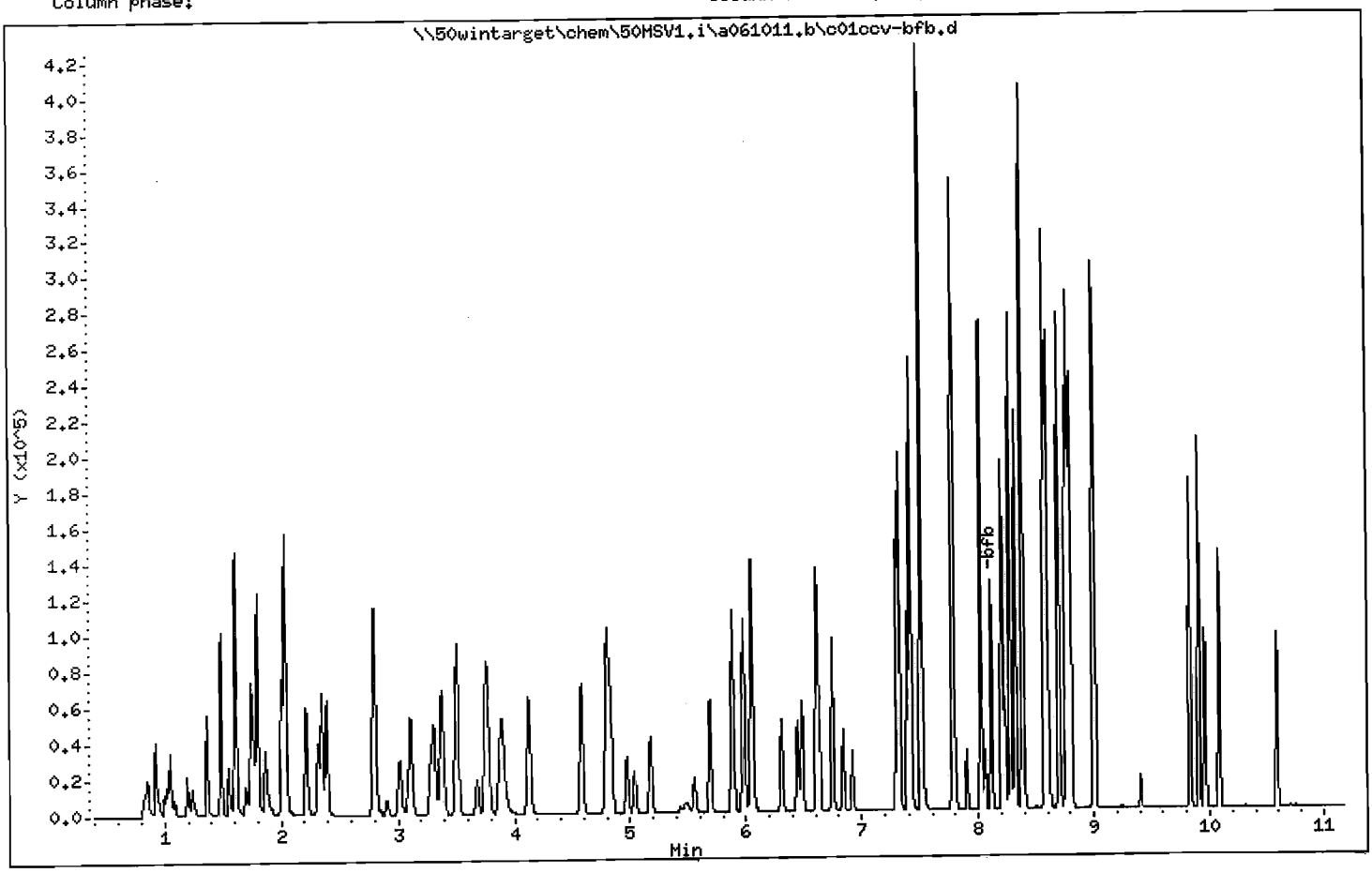
Sample Info: ccv

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV1.i\a061011.b\c01ccv-bfb.d

Date : 10-JUN-2011 20:05

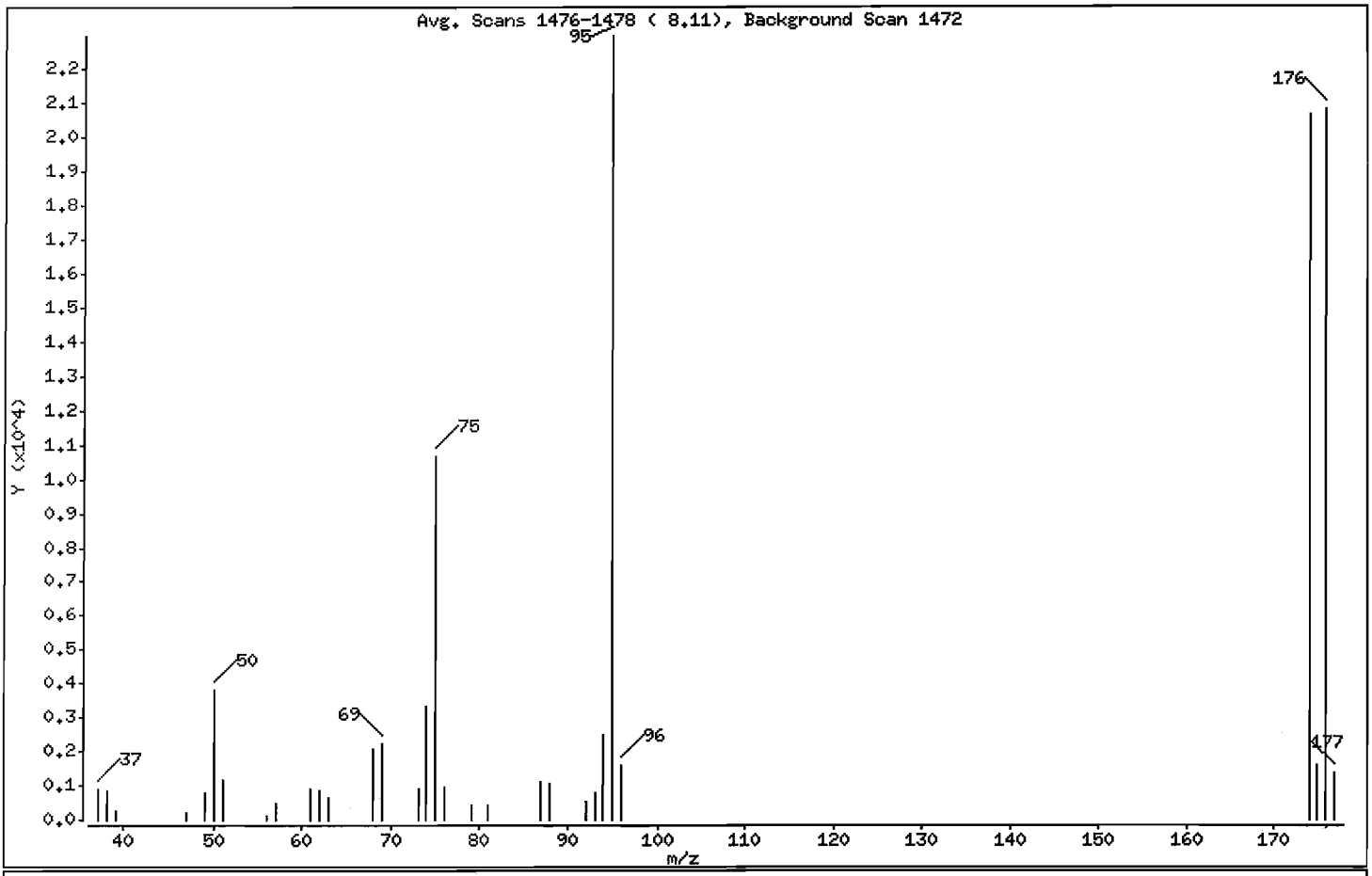
Client ID: bfb050 | Instrument: 50MSV1.i

Sample Info: ccv

Volume Injected (uL): 1.0 | Operator: rsw

Column phase: | Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.53
75	30.00 - 60.00% of mass 95	46.44
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	89.94
175	5.00 - 9.00% of mass 174	6.89 (7.66)
176	95.00 - 101.00% of mass 174	90.63 (100.77)
177	5.00 - 9.00% of mass 176	6.07 (6.69)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\c01ccv-bfb.d

Date : 10-JUN-2011 20:05

Client ID: bfb050 Instrument: 50MSV1.i

Sample Info: ccv

Volume Injected (uL): 1.0 Operator: rsw

Column phase: Column diameter: 2.00

Data File: c01ccv-bfb.d
Spectrum: Avg. Scans 1476-1478 (8.11), Background Scan 1472
Location of Maximum: 95.00
Number of points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	909	57.00	493	75.00	10671	94.00	2482
38.00	851	61.00	884	76.00	925	95.00	22976
39.00	280	62.00	850	79.00	435	96.00	1563
47.00	226	63.00	635	81.00	448	174.00	20664
49.00	799	68.00	2072	87.00	1115	175.00	1582
50.00	3797	69.00	2241	88.00	1040	176.00	20824
51.00	1184	73.00	902	92.00	554	177.00	1394
56.00	108	74.00	3305	93.00	809		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\c01ccv.d
Lab Smp Id: ccv Client Smp ID: ccv
Inj Date : 10-JUN-2011 20:05
Operator : rsw Inst ID: 50MSV1.i
Smp Info : ccv
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 15-Jun-2011 18:03 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 17:43 Cal File: a08.d
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.921	0.921	(0.224)	31487	50.0000	45.4
2 Chloromethane	50	1.026	1.026	(0.249)	27071	50.0000	39.3
3 Vinyl Chloride	62	1.047	1.047	(0.254)	21745	50.0000	45.2
4 Bromomethane	94	1.193	1.193	(0.290)	12375	50.0000	44.8
5 Chloroethane	64	1.240	1.240	(0.301)	10282	50.0000	44.0
6 Trichlorofluoromethane	101	1.355	1.355	(0.329)	28990	50.0000	45.4
28 1,2-dichlorotrifluoroethane	67	1.476	1.476	(0.358)	25766	50.0000	53.4
7 Diethyl ether	74	1.481	1.481	(0.359)	7422	50.0000	53.8
8 Acrolein	56	1.544	1.544	(0.375)	17753	1000.00	917
9 1,1-Dichloroethene	96	1.606	1.606	(0.390)	19535	50.0000	55.4
10 1,1,2trichlorotrifluoroethane	101	1.601	1.601	(0.388)	21857	50.0000	55.5
11 Acetone	43	1.622	1.622	(0.394)	11489	250.000	285
12 Iodomethane	142	1.695	1.695	(0.411)	21835	100.000	101
142 Acetonitrile	41	1.795	1.795	(0.435)	43538	1000.00	1210
13 Carbon Disulfide	76	1.742	1.742	(0.423)	152056	100.000	148
138 Methyl Acetate	43	1.800	1.800	(0.437)	5658	50.0000	49.6
14 allyl chloride	41	1.795	1.795	(0.435)	43538	100.000	108
15 Methylene Chloride	84	1.863	1.863	(0.452)	17377	50.0000	46.1
16 Acrylonitrile	53	2.004	2.004	(0.486)	53051	1000.00	1070
27 Propionitrile	54	2.391	2.391	(0.580)	1257	50.0000	53.4
17 tert-Butyl Alcohol	59	1.920	1.920	(0.466)	1762	100.000	97.7
18 1,2-Dichloroethene (trans)	96	2.030	2.030	(0.493)	17796	50.0000	49.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	19 Methyl-tert-butyl ether	73	2.035	2.035	(0.494)	65448	100.000	106
	20 n-Hexane	57	2.213	2.213	(0.537)	24611	50.0000	48.5
	146 Chloroprene	53	2.391	2.391	(0.580)	30379	50.0000	52.7
	21 1,1-Dichloroethane	63	2.318	2.318	(0.562)	32241	50.0000	47.6
	23 Vinyl Acetate	43	2.349	2.349	(0.570)	79050	200.000	167
	25 1,2-Dichloroethene (cis)	96	2.794	2.794	(0.678)	25526	50.0000	52.1
	24 2,2-Dichloropropane	77	2.794	2.794	(0.678)	33235	50.0000	51.8
	26 2-Butanone	43	2.809	2.809	(0.682)	24647	250.000	244
	143 Methacrylonitrile	141	1.695	1.695	(0.411)	2555	250.000	230
	29 Bromochloromethane	49	3.024	3.024	(0.734)	11930	50.0000	58.4
	30 Tetrahydrofuran	42	3.086	3.086	(0.749)	3410	50.0000	36.3
	31 Chloroform	83	3.107	3.107	(0.754)	43800	50.0000	51.1
$	32 Dibromofluoromethane (S)	113	3.280	3.280	(0.796)	16484	50.0000	49.6
	33 1,1,1-Trichloroethane	97	3.306	3.306	(0.802)	35548	50.0000	51.6
	139 Cyclohexane	56	3.374	3.374	(0.819)	37988	50.0000	52.1
	37 Isobutyl alcohol	43	3.379	3.379	(0.820)	3885	50.0000	51.8
	36 1,1-Dichloropropene	75	3.505	3.505	(0.850)	35565	50.0000	54.7
	35 Carbon Tetrachloride	117	3.505	3.505	(0.850)	26207	50.0000	50.9
	144 isopropyl acetate	61	1.047	1.047	(0.254)	1658	50.0000	40.3
	147 2,2,4-Trimethylpentane	57	3.892	3.892	(0.944)	90011	50.0000	51.0
	38 Benzene	78	3.756	3.756	(0.911)	92937	50.0000	49.7
	39 1,2-Dichloroethane	62	3.777	3.777	(0.916)	22734	50.0000	50.6
*	40 Fluorobenzene	96	4.122	4.122	(1.000)	72523	50.0000	
	41 Trichloroethene	95	4.582	4.582	(1.112)	28234	50.0000	51.4
	140 Methylcyclohexane	55	4.802	4.802	(1.165)	37432	50.0000	54.0
	42 1,2-Dichloropropane	63	4.839	4.839	(1.174)	23861	50.0000	53.1
	43 Dibromomethane	93	4.969	4.969	(1.206)	11680	50.0000	51.1
	44 Methyl methacrylate	69	5.037	5.037	(1.222)	10389	50.0000	51.4
	45 Bromodichloromethane	83	5.173	5.173	(1.255)	28947	50.0000	53.1
	46 2-Chloroethyl vinyl ether	63	5.555	5.555	(0.761)	8286	100.000	75.6
	47 cis-1,3-Dichloropropene	75	5.691	5.691	(0.779)	36388	50.0000	50.6
	48 4-Methyl-2-Pentanone	43	5.885	5.885	(0.806)	70481	250.000	277
$	49 Toluene-d8	98	5.979	5.979	(0.819)	73386	50.0000	49.3
	50 Toluene	91	6.052	6.052	(0.829)	109741	50.0000	47.7
	51 trans-1,3-Dichloropropene	75	6.308	6.308	(0.864)	27784	50.0000	49.2
	52 Ethyl Methacrylate	69	6.444	6.444	(0.883)	24043	50.0000	48.9
	53 1,1,2-Trichloroethane	83	6.486	6.486	(0.888)	15734	50.0000	49.0
	54 Tetrachloroethene	166	6.612	6.612	(0.905)	37042	50.0000	52.5
	55 1,3-Dichloropropane	76	6.638	6.638	(0.909)	29318	50.0000	49.0
	56 2-Hexanone	43	6.742	6.742	(0.923)	50246	250.000	273
	57 Dibromochloromethane	129	6.836	6.836	(0.936)	18634	50.0000	52.0
	58 1,2-Dibromoethane	107	6.915	6.915	(0.947)	17299	50.0000	48.2
*	59 Chlorobenzene-d5	117	7.302	7.302	(1.000)	63871	50.0000	
	60 Chlorobenzene	112	7.323	7.323	(1.003)	74100	50.0000	50.5
	61 1,1,1,2-Tetrachloroethane	131	7.391	7.391	(1.012)	21885	50.0000	52.3
	62 Ethylbenzene	106	7.417	7.417	(1.016)	41249	50.0000	55.8
	63 m&p-Xylene	106	7.501	7.501	(1.027)	97901	100.000	115
	65 o-Xylene	106	7.773	7.773	(1.064)	48849	50.0000	47.0
	66 Styrene	104	7.783	7.783	(1.066)	77161	50.0000	55.9
	67 Bromoform	173	7.898	7.898	(0.898)	10707	50.0000	42.1
	68 Isopropylbenzene	105	8.024	8.024	(1.099)	140081	50.0000	49.3
	69 trans-1,4-Dichloro-2-butene	53	8.238	8.238	(1.128)	4667	50.0000	47.7
$	70 4-Bromofluorobenzene	95	8.113	8.113	(1.111)	29112	50.0000	47.4
	72 1,1,2,2-Tetrachloroethane	83	8.212	8.212	(0.934)	23904	50.0000	48.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
71 Bromobenzene	77	8.202	8.202	(1.123)	58033	50.0000	47.0
73 1,2,3-Trichloropropane	75	8.228	8.228	(0.936)	23469	50.0000	46.8
74 n-Propylbenzene	91	8.275	8.275	(0.941)	165138	50.0000	51.4
75 2-Chlorotoluene	91	8.322	8.322	(0.946)	95128	50.0000	47.5
76 4-Chlorotoluene	126	8.327	8.327	(0.947)	29919	50.0000	49.1
77 1,3,5-Trimethylbenzene	105	8.385	8.385	(0.954)	102081	50.0000	47.8
78 tert-Butylbenzene	119	8.573	8.573	(0.975)	118174	50.0000	50.0
79 1,2,4-Trimethylbenzene	105	8.599	8.599	(0.978)	106029	50.0000	48.4
80 sec-Butylbenzene	105	8.698	8.698	(0.989)	147597	50.0000	50.6
81 1,3-Dichlorobenzene	146	8.756	8.756	(0.996)	59647	50.0000	45.3
83 p-Isopropyltoluene	119	8.777	8.777	(0.998)	115818	50.0000	48.8
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.793	(1.000)	31277	50.0000	
84 1,4-Dichlorobenzene	146	8.808	8.808	(1.002)	56015	50.0000	44.4
86 n-Butylbenzene	91	8.997	8.997	(1.023)	120858	50.0000	48.7
85 1,2-Dichlorobenzene	146	9.007	9.007	(1.024)	53444	50.0000	47.3
88 1,2,4-Trichlorobenzene	180	9.828	9.828	(1.118)	44535	50.0000	45.2
91 1,2,3-Trichlorobenzene	180	10.084	10.084	(1.147)	36716	50.0000	46.7
87 1,2-Dibromo-3-chloropropane	155	9.907	9.907	(1.127)	4220	50.0000	51.0
89 Hexachlorobutadiene	225	9.907	9.907	(1.127)	34062	50.0000	48.9
90 Naphthalene	128	9.959	9.959	(1.133)	62165	50.0000	44.1
92 2,methyl-naphthalene	142	10.581	10.581	(1.203)	40322	50.0000	46.0

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: c01ccv.d
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 16:33
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	65592	32796	131184	72523	10.57
59 Chlorobenzene-d5	56159	28080	112318	63871	13.73
82 1,4-Dichlorobenze	28863	14432	57726	31277	8.36

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.00
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.07
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.00

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

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i
Lab File ID: c01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m

Injection Date: 10-JUN-2011 20:05
Init. Cal. Date(s): 10-JUN-2011 10-JUN-2011
Init. Cal. Times: 13:32 17:43
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.47762	0.43417	0.43417	0.100	-9.09876	20.00000	Averaged	
2 Chloromethane	50.00000	39.31113	0.37327	0.100	-21.37773	0.000e+000	Linear	
3 Vinyl Chloride	0.33134	0.29984	0.29984	0.100	-9.50772	20.00000	Averaged	
4 Bromomethane	50.00000	44.85929	0.17064	0.100	-10.28142	0.000e+000	Linear	
5 Chloroethane	0.16106	0.14178	0.14178	0.100	-11.97527	20.00000	Averaged	
6 Trichlorofluoromethane	0.44016	0.39974	0.39974	0.100	-9.18373	20.00000	Averaged	
28 1,2-dichlorotrifluoroethane	0.33284	0.35528	0.35528	0.100	6.74168	20.00000	Averaged	
7 Diethyl ether	0.09519	0.10234	0.10234	0.100	7.51053	20.00000	Averaged	
8 Acrolein	0.01334	0.01224	0.01224	0.100	-8.25779	20.00000	Averaged	
9 1,1-Dichloroethene	0.24302	0.26936	0.26936	0.100	10.84108	20.00000	Averaged	
10 1,1,2trichlorotrifluoroetha	0.27153	0.30138	0.30138	0.100	10.99393	20.00000	Averaged	
11 Acetone	250	285	0.03168	0.100	13.89248	0.000e+000	Linear	
12 Iodomethane	100	101	0.15054	0.100	0.72607	0.000e+000	Linear	
142 Acetonitrile	1000	1211	0.03002	0.100	21.05764	0.000e+000	Linear	
13 Carbon Disulfide	100	148	1.04833	0.100	47.95519	0.000e+000	Linear	
138 Methyl Acetate	50.00000	49.59992	0.07802	0.100	-0.80017	0.000e+000	Linear	
14 allyl chloride	100	108	0.30017	0.100	8.17369	0.000e+000	Linear	
15 Methylene Chloride	0.25986	0.23961	0.23961	0.100	-7.79232	20.00000	Averaged	
16 Acrylonitrile	1000	1068	0.03658	0.100	6.79229	0.000e+000	Linear	
27 Propionitrile	0.01622	0.01733	0.01733	0.100	6.85925	20.00000	Averaged	
17 tert-Butyl Alcohol	0.01244	0.01215	0.01215	0.100	-2.32462	20.00000	Averaged	
18 1,2-Dichloroethene (trans)	0.24942	0.24538	0.24538	0.100	-1.61797	20.00000	Averaged	
19 Methyl-tert-butyl ether	100	106	0.45122	0.100	5.71967	0.000e+000	Linear	
20 n-Hexane	0.34975	0.33935	0.33935	0.100	-2.97137	20.00000	Averaged	
146 Chloroprene	0.39729	0.41889	0.41889	0.100	5.43627	20.00000	Averaged	
21 1,1-Dichloroethane	0.46720	0.44456	0.44456	0.100	-4.84575	20.00000	Averaged	
23 Vinyl Acetate	200	167	0.27250	0.100	-16.30062	0.000e+000	Linear	
25 1,2-Dichloroethene (cis)	0.33770	0.35197	0.35197	0.100	4.22474	20.00000	Averaged	
24 2,2-Dichloropropane	0.44233	0.45827	0.45827	0.100	3.60410	20.00000	Averaged	
26 2-Butanone	0.06970	0.06797	0.06797	0.100	-2.47515	20.00000	Averaged	
143 Methacrylonitrile	0.00766	0.00705	0.00705	0.100	-8.01525	20.00000	Averaged	
29 Bromochloromethane	50.00000	58.45482	0.16450	0.100	16.90964	0.000e+000	Linear	
30 Tetrahydrofuran	0.06474	0.04702	0.04702	0.100	-27.37319	20.00000	Averaged	<-
31 Chloroform	0.59126	0.60395	0.60395	0.100	2.14589	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.22905	0.22729	0.22729	0.100	-0.76656	20.00000	Averaged	
33 1,1,1-Trichloroethane	0.47515	0.49016	0.49016	0.100	3.15849	20.00000	Averaged	
139 Cyclohexane	50.00000	52.14960	0.52381	0.100	4.29920	0.000e+000	Linear	
37 Isobutyl alcohol	50.00000	51.75204	0.05357	0.100	3.50408	0.000e+000	Linear	
36 1,1-Dichloropropene	50.00000	54.68098	0.49040	0.100	9.36195	0.000e+000	Linear	
35 Carbon Tetrachloride	50.00000	50.88224	0.36136	0.100	1.76447	0.000e+000	Linear	
144 isopropyl acetate	0.02834	0.02286	0.02286	0.100	-19.33600	20.00000	Averaged	
147 2,2,4-Trimethylpentane	1.21692	1.24114	1.24114	0.100	1.99013	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i
Lab File ID: c01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m

Injection Date: 10-JUN-2011 20:05
Init. Cal. Date(s): 10-JUN-2011 10-JUN-2011
Init. Cal. Times: 13:32 17:43
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 Benzene	1.28839	1.28148	1.28148	0.100	-0.53624	20.00000	Averaged
39 1,2-Dichloroethane	0.30963	0.31347	0.31347	0.100	1.24032	20.00000	Averaged
41 Trichloroethene	0.37848	0.38931	0.38931	0.100	2.86172	20.00000	Averaged
140 Methylcyclohexane	0.47767	0.51614	0.51614	0.100	8.05365	20.00000	Averaged
42 1,2-Dichloropropane	0.30970	0.32901	0.32901	0.100	6.23566	20.00000	Averaged
43 Dibromomethane	0.15761	0.16105	0.16105	0.100	2.18376	20.00000	Averaged
44 Methyl methacrylate	50.00000	51.39483	0.14325	0.100	2.78967	0.000e+000	Linear
141 1,4-Dioxane	++++	++++	++++	0.100	++++	20.00000	Averaged <-
45 Bromodichloromethane	0.37612	0.39914	0.39914	0.100	6.12196	20.00000	Averaged
46 2-Chloroethyl vinyl ether	0.08575	0.06487	0.06487	0.100	-24.35706	20.00000	Averaged <-
47 cis-1,3-Dichloropropene	0.56331	0.56971	0.56971	0.100	1.13618	20.00000	Averaged
48 4-Methyl-2-Pentanone	250	277	0.22070	0.100	10.82608	0.000e+000	Linear
$ 49 Toluene-d8	1.16434	1.14897	1.14897	0.100	-1.31949	20.00000	Averaged
50 Toluene	1.80064	1.71817	1.71817	0.100	-4.58020	20.00000	Averaged
51 trans-1,3-Dichloropropene	0.44168	0.43500	0.43500	0.100	-1.51277	20.00000	Averaged
52 Ethyl Methacrylate	0.38512	0.37643	0.37643	0.100	-2.25734	20.00000	Averaged
53 1,1,2-Trichloroethane	0.25108	0.24634	0.24634	0.100	-1.88632	20.00000	Averaged
54 Tetrachloroethene	0.55194	0.57995	0.57995	0.100	5.07500	20.00000	Averaged
55 1,3-Dichloropropane	0.46860	0.45902	0.45902	0.100	-2.04494	20.00000	Averaged
56 2-Hexanone	250	273	0.15734	0.100	9.08974	0.000e+000	Linear
57 Dibromochloromethane	0.28074	0.29174	0.29174	0.100	3.92040	20.00000	Averaged
58 1,2-Dibromoethane	0.28096	0.27084	0.27084	0.100	-3.60187	20.00000	Averaged
60 Chlorobenzene	1.14852	1.16015	1.16015	0.300	1.01235	20.00000	Averaged
61 1,1,1,2-Tetrachloroethane	0.32778	0.34264	0.34264	0.100	4.53449	20.00000	Averaged
62 Ethylbenzene	50.00000	55.81226	0.64582	0.100	11.62453	0.000e+000	Linear
63 m&p-Xylene	100	115	0.76640	0.100	14.67018	0.000e+000	Linear
65 o-Xylene	0.81442	0.76481	0.76481	0.100	-6.09222	20.00000	Averaged
66 Styrene	50.00000	55.88850	1.20808	0.100	11.77700	0.000e+000	Linear
67 Bromoform	50.00000	42.12471	0.34233	0.100	-15.75059	0.000e+000	Linear
68 Isopropylbenzene	2.22419	2.19319	2.19319	0.100	-1.39385	20.00000	Averaged
145 n-amyl acetate	++++	++++	++++	0.100	++++	20.00000	Averaged <-
69 trans-1,4-Dichloro-2-butene	50.00000	47.67815	0.07307	0.100	-4.64370	0.000e+000	Linear
$ 70 4-Bromofluorobenzene	0.48023	0.45579	0.45579	0.100	-5.08791	20.00000	Averaged
72 1,1,2,2-Tetrachloroethane	0.78896	0.76427	0.76427	0.300	-3.12983	20.00000	Averaged
71 Bromobenzene	0.96616	0.90860	0.90860	0.100	-5.95803	20.00000	Averaged
73 1,2,3-Trichloropropane	0.80240	0.75036	0.75036	0.100	-6.48551	20.00000	Averaged
74 n-Propylbenzene	5.13546	5.27985	5.27985	0.100	2.81168	20.00000	Averaged
75 2-Chlorotoluene	3.20420	3.04147	3.04147	0.100	-5.07859	20.00000	Averaged
76 4-Chlorotoluene	0.97488	0.95658	0.95658	0.100	-1.87669	20.00000	Averaged
77 1,3,5-Trimethylbenzene	3.41725	3.26377	3.26377	0.100	-4.49113	20.00000	Averaged
78 tert-Butylbenzene	3.77516	3.77830	3.77830	0.100	0.08322	20.00000	Averaged
79 1,2,4-Trimethylbenzene	3.49840	3.39000	3.39000	0.100	-3.09859	20.00000	Averaged
80 sec-Butylbenzene	4.65982	4.71903	4.71903	0.100	1.27063	20.00000	Averaged

Pace Analytical Services, Inc.

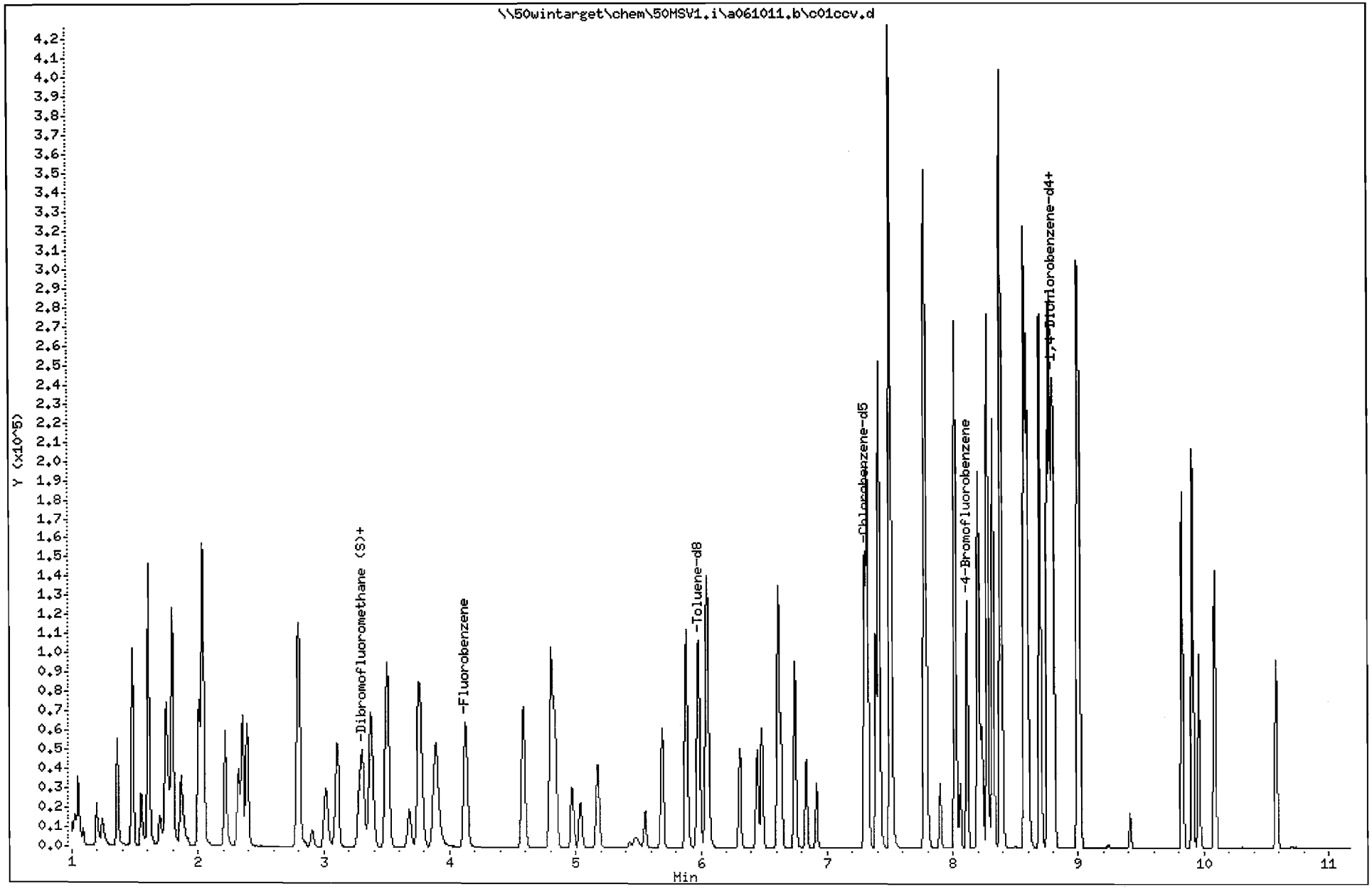
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i Injection Date: 10-JUN-2011 20:05
Lab File ID: c01ccv.d Init. Cal. Date(s): 10-JUN-2011 10-JUN-2011
Analysis Type: WATER Init. Cal. Times: 13:32 17:43
Lab Sample ID: ccv Quant Type: ISTD
Method: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
81 1,3-Dichlorobenzene	2.10622	1.90706	1.90706	0.100	-9.45600	20.00000	Averaged
83 p-Isopropyltoluene	3.79068	3.70298	3.70298	0.100	-2.31361	20.00000	Averaged
84 1,4-Dichlorobenzene	2.01478	1.79093	1.79093	0.100	-11.11013	20.00000	Averaged
86 n-Butylbenzene	3.96374	3.86412	3.86412	0.100	-2.51341	20.00000	Averaged
85 1,2-Dichlorobenzene	1.80646	1.70873	1.70873	0.100	-5.40982	20.00000	Averaged
88 1,2,4-Trichlorobenzene	1.57613	1.42389	1.42389	0.100	-9.65892	20.00000	Averaged
91 1,2,3-Trichlorobenzene	1.25744	1.17390	1.17390	0.100	-6.64389	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	51.03192	0.13492	0.100	2.06384	0.000e+000	Linear
89 Hexachlorobutadiene	1.11335	1.08904	1.08904	0.100	-2.18325	20.00000	Averaged
90 Naphthalene	2.25153	1.98756	1.98756	0.100	-11.72379	20.00000	Averaged
92 2,methyl-naphthalene	1.40040	1.28919	1.28919	0.100	-7.94146	20.00000	Averaged

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\c01ccv.d
Date : 10-JUN-2011 20:05
Client ID: ccv
Sample Info: ccv
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



5A

BFB ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B061011.B

Lab File ID: D01CCV-BFB BFB Injection Date: 06/10/11

Instrument ID: 50MSV1 BFB Injection Time: 2023

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	48.3
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	81.5
175	5.0 - 9.0% of mass 174	6.4 (7.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	79.7 (97.7)1
177	5.0 - 9.0% of mass 176	5.3 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	D01CCV	06/10/11	2023
02	LCS	584134	D02LCS	06/10/11	2057
03	MB	584133	D03MB	06/10/11	2131
04	5049277002	5049277002	D04	06/10/11	2206
05	MS5049277002	584131	D05	06/10/11	2239
06	MSD504927700	584132	D06	06/10/11	2313
07	5049277006	5049277006	D07	06/10/11	2350
08	5049277007	5049277007	D08	06/11/11	0025
09	5049277008	5049277008	D09	06/11/11	0058
10	5049400001	5049400001	D10	06/11/11	0133
11	5049400002	5049400002	D11	06/11/11	0251
12	MS5049400002	584135	D12	06/11/11	0326
13	MSD504940000	584136	D13	06/11/11	0400
14	5049289001	5049289001	D14	06/11/11	0436
15	5049289002	5049289002	D15	06/11/11	0510
16	5049289003	5049289003	D16	06/11/11	0544
17	5049289004	5049289004	D17	06/11/11	0617
18	5049289004	5049289004	D18	06/11/11	0651
19	5049289005	5049289005	D19	06/11/11	0726
20	5049438002	5049438002	D20	06/11/11	0800
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B061011.B

Instrument ID: 50MSV1 Calibration Date: 06/10/11 Time: 2023

Lab File ID: D01CCV Init. Calib. Date(s): 06/10/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D
Bromochloromethane	55.557	50.000	LINR	-11.11
Chloromethane	41.422	50.000	AVRG	17.156
Bromomethane	40.654	50.000	LINR	18.692
Vinyl Chloride	40.888	50.000	LINR	18.224
Chloroethane	40.779	50.000	LINR	18.442
Methylene Chloride	49.593	50.000	LINR	0.8140
1,1-Dichloroethene	52.582	50.000	LINR	-5.164
1,1-Dichloroethane	49.886	50.000	LINR	0.2280
1,2-Dichloroethene (trans)	49.267	50.000	LINR	1.4660
Chloroform	50.237	50.000	LINR	-0.474
1,2-Dichloroethane	48.068	50.000	LINR	3.8640
1,1,1-Trichloroethane	48.683	50.000	AVRG	2.6340
Carbon Tetrachloride	52.102	50.000	AVRG	-4.204
Bromodichloromethane	50.269	50.000	AVRG	-0.538
1,2-Dichloropropane	52.314	50.000	LINR	-4.628
trans-1,3-Dichloropropene	50.692	50.000	LINR	-1.384
Trichloroethene	52.258	50.000	AVRG	-4.516
Dibromochloromethane	51.818	50.000	LINR	-3.636
1,1,2-Trichloroethane	51.074	50.000	LINR	-2.148
Benzene	47.086	50.000	LINR	5.8280
cis-1,3-Dichloropropene	51.570	50.000	LINR	-3.140
Bromoform	53.185	50.000	AVRG	-6.370
Tetrachloroethene	56.986	50.000	LINR	-13.97
1,1,2,2-Tetrachloroethane	#55.615	50.000	LINR	-11.23#
Toluene	53.366	50.000	LINR	-6.732
Chlorobenzene	#51.608	50.000	LINR	-3.216#
Ethylbenzene	53.566	50.000	LINR	-7.132
Styrene	51.991	50.000	LINR	-3.982
Trichlorofluoromethane	45.245	50.000	AVRG	9.5100
m&p-Xylene	108.54	100.00	LINR	-8.540
1,2-Dichloroethene (cis)	49.192	50.000	LINR	1.6160
o-Xylene	51.293	50.000	LINR	-2.586
1,2,3-Trichloropropane	51.812	50.000	LINR	-3.624
1,3-Dichlorobenzene	56.511	50.000	LINR	-13.02
1,4-Dichlorobenzene	54.508	50.000	LINR	-9.016
Dibromomethane	49.536	50.000	AVRG	0.9280
1,2-Dichlorobenzene	50.132	50.000	LINR	-0.264
Dichlorodifluoromethane	43.041	50.000	AVRG	13.918

FORM VII VOA 1/87 Rev.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B061011.B

Instrument ID: 50MSV1 Calibration Date: 06/10/11 Time: 2023

Lab File ID: D01CCV Init. Calib. Date(s): 06/10/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
2,2-Dichloropropane	49.745	50.000	AVRG	0.5100	
1,1-Dichloropropene	48.088	50.000	LINR	3.8240	
1,3-Dichloropropane	54.616	50.000	LINR	-9.232	
1,2-Dibromoethane	54.801	50.000	LINR	-9.602	
1,1,1,2-Tetrachloroethane	54.717	50.000	LINR	-9.434	
Isopropylbenzene	53.388	50.000	LINR	-6.776	
Bromobenzene	56.504	50.000	LINR	-13.01	
n-Propylbenzene	50.010	50.000	LINR	++++++	
2-Chlorotoluene	50.256	50.000	LINR	-0.512	
4-Chlorotoluene	49.338	50.000	LINR	1.3240	
1,3,5-Trimethylbenzene	52.324	50.000	LINR	-4.648	
tert-Butylbenzene	47.601	50.000	LINR	4.7980	
1,2,4-Trimethylbenzene	49.360	50.000	LINR	1.2800	
sec-Butylbenzene	56.890	50.000	LINR	-13.78	
p-Isopropyltoluene	50.972	50.000	LINR	-1.944	
n-Butylbenzene	48.526	50.000	LINR	2.9480	
1,2-Dibromo-3-chloropropane	48.109	50.000	LINR	3.7820	
1,2,4-Trichlorobenzene	49.939	50.000	LINR	0.1220	
Hexachlorobutadiene	54.347	50.000	LINR	-8.694	
Naphthalene	51.810	50.000	LINR	-3.620	
1,2,3-Trichlorobenzene	51.432	50.000	LINR	-2.864	
Acrolein	736.55	1000.0	LINR	26.345	<-
Carbon Disulfide	105.42	100.00	LINR	-5.420	
Acetone	267.80	250.00	LINR	-7.120	
Acrylonitrile	1000.7	1000.0	LINR	++++++	
Vinyl Acetate	194.78	200.00	LINR	2.6100	
2-Butanone	251.86	250.00	LINR	-0.744	
2-Chloroethyl vinyl ether	116.61	100.00	LINR	-16.61	
4-Methyl-2-Pentanone	261.59	250.00	LINR	-4.636	
2-Hexanone	241.48	250.00	LINR	3.4080	
Methyl-tert-butyl ether	100.32	100.00	LINR	-0.320	
Iodomethane	103.83	100.00	LINR	-3.830	
trans-1,4-Dichloro-2-butene	47.455	50.000	LINR	5.0900	
Ethyl Methacrylate	55.067	50.000	LINR	-10.13	
2,methyl-naphthalene	46.230	50.000	LINR	7.5400	
n-Hexane	51.791	50.000	LINR	-3.582	
1,1,2trichlorotrifluoroetha	51.450	50.000	AVRG	-2.900	
1,2-dichlorotrifluoroethane	53.178	50.000	LINR	-6.356	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B061011.B

Instrument ID: 50MSV1 Calibration Date: 06/10/11 Time: 2023

Lab File ID: D01CCV Init. Calib. Date(s): 06/10/11

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Tetrahydrofuran	33.592	50.000	AVRG	32.816	<-
allyl chloride	100.91	100.00	LINR	-0.910	
Diethyl ether	57.811	50.000	LINR	-15.62	
Isobutyl alcohol	49.793	50.000	AVRG	0.4140	
Methyl methacrylate	48.200	50.000	AVRG	3.6000	
Propionitrile	41.652	50.000	AVRG	16.696	
tert-Butyl Alcohol	118.55	100.00	AVRG	-18.55	
Methyl Acetate	53.869	50.000	LINR	-7.738	
Cyclohexane	49.897	50.000	LINR	0.2060	
Methylcyclohexane	51.488	50.000	LINR	-2.976	
1,4-Dioxane	0.0000	1000.0	AVRG	100.00	<-
Acetonitrile	1009.1	1000.0	LINR	-0.910	
Methacrylonitrile	247.19	250.00	AVRG	1.1240	
isopropyl acetate	44.186	50.000	AVRG	11.628	
n-amyl acetate	0.0000	50.000	AVRG	100.00	<-
Chloroprene	50.259	50.000	LINR	-0.518	
2,2,4-Trimethylpentane	48.033	50.000	LINR	3.9340	
Toluene-d8	48.530	50.000	AVRG	2.9400	
4-Bromofluorobenzene	49.428	50.000	AVRG	1.1440	
Dibromofluoromethane (S)	49.813	50.000	AVRG	0.3740	

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d01ccv-bfb.d
Lab Smp Id: bfb050 34D-354 Client Smp ID: bfb050
Inj Date : 10-JUN-2011 20:23 MS Autotune Date: 21-AUG-1992 10:13
Operator : rsw Inst ID: 50MSV1.i
Smp Info : ccv
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-bfb390.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 25-MAY-2001 16:00 Cal File: 0201002.D
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.114	8.417	(0.000)	95	24744			100.00- 100.00	100.00
8.114	8.417	(0.000)	50	4276			15.00- 40.00	17.28
8.114	8.417	(0.000)	75	11954			30.00- 60.00	48.31
8.114	8.417	(0.000)	96	1590			5.00- 9.00	6.43
8.114	8.417	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.114	8.417	(0.000)	174	20176			50.00- 100.00	81.54
8.114	8.417	(0.000)	175	1591			5.00- 9.00	7.89
8.114	8.417	(0.000)	176	19712			95.00- 101.00	97.70
8.114	8.417	(0.000)	177	1320			5.00- 9.00	6.70
8.114	8.417	(0.000)	95	24744			100.00- 100.00	100.00

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d01ccv-bfb.d

Date : 10-JUN-2011 20:23

Client ID: bfb050

Instrument: 50MSV1.i

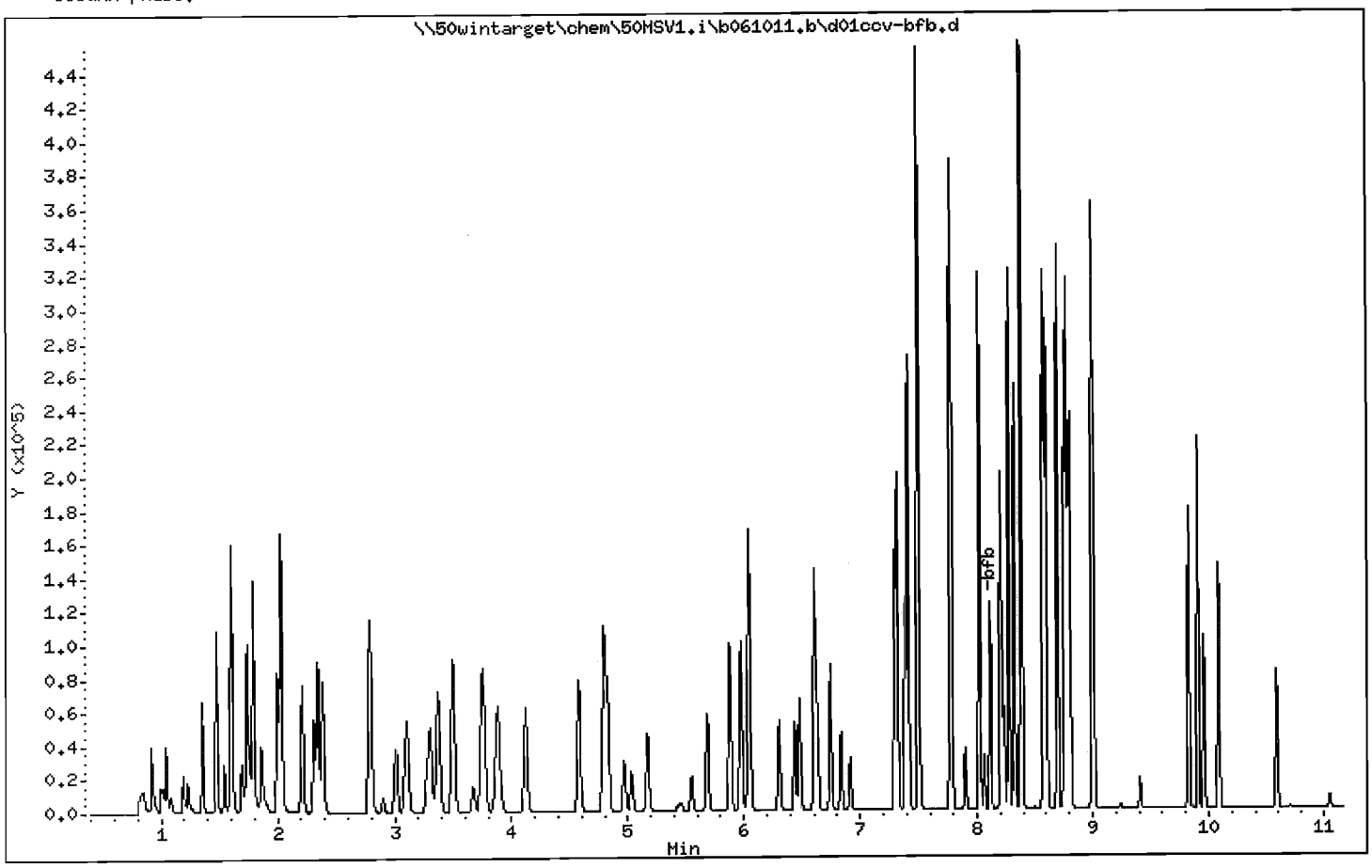
Sample Info: ccv

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d01ccv-bfb.d

Date : 10-JUN-2011 20:23

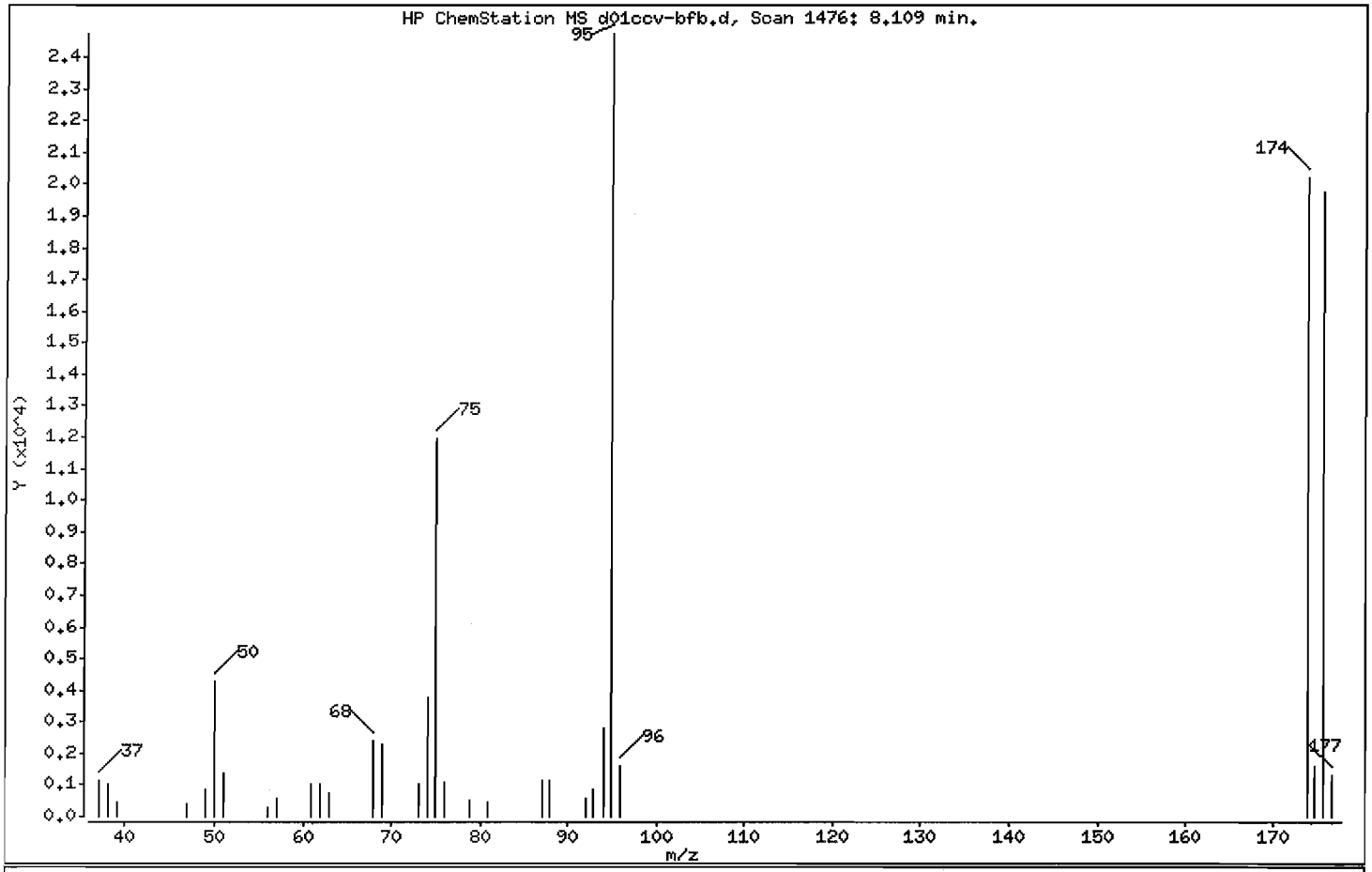
Client ID: bfb050 | Instrument: 50MSV1.i

Sample Info: ccv

Volume Injected (uL): 1.0 | Operator: rsw

Column phase: | Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.28
75	30.00 - 60.00% of mass 95	48.31
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	81.54
175	5.00 - 9.00% of mass 174	6.43 (7.89)
176	95.00 - 101.00% of mass 174	79.66 (97.70)
177	5.00 - 9.00% of mass 176	5.33 (6.70)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d01ccv-bfb.d

Date : 10-JUN-2011 20:23

Client ID: bfb050 Instrument: 50MSV1.i

Sample Info: ccv

Volume Injected (uL): 1.0 Operator: rsw

Column phase: Column diameter: 2.00

Data File: d01ccv-bfb.d

Spectrum: HP ChemStation MS d01ccv-bfb.d, Scan 1476: 8.109 min.

Location of Maximum: 95.00

Number of points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1160	57.00	587	75.00	11954	94.00	2762
38.00	1014	61.00	1000	76.00	1098	95.00	24744
39.00	432	62.00	1021	78.90	503	96.00	1590
47.00	390	63.00	722	80.90	450	173.90	20176
49.00	850	68.00	2362	87.00	1131	174.90	1591
50.00	4276	69.00	2294	87.90	1145	175.90	19712
51.00	1340	73.00	1030	92.00	573	176.90	1320
56.00	310	74.00	3747	92.90	830		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d01ccv.d
Lab Smp Id: ccv Client Smp ID: ccv
Inj Date : 10-JUN-2011 20:23
Operator : rsw Inst ID: 50MSV1.i
Smp Info : ccv
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.917	0.917	(0.223)	29762	50.0000	43.0
2 Chloromethane	50	1.017	1.017	(0.247)	25593	50.0000	41.4
3 Vinyl Chloride	62	1.043	1.043	(0.253)	23429	50.0000	40.9
4 Bromomethane	94	1.189	1.189	(0.289)	12614	50.0000	40.6
5 Chloroethane	64	1.231	1.231	(0.299)	10519	50.0000	40.8
6 Trichlorofluoromethane	101	1.352	1.352	(0.328)	29832	50.0000	45.2
28 1,2-dichlorotrifluoroethane	67	1.472	1.472	(0.357)	27053	50.0000	53.2
7 Diethyl ether	74	1.477	1.477	(0.359)	7447	50.0000	57.8
8 Acrolein	56	1.540	1.540	(0.374)	15268	1000.00	736
9 1,1-Dichloroethene	96	1.603	1.603	(0.389)	20056	50.0000	52.6
10 1,1,2trichlorotrifluoroethane	101	1.597	1.597	(0.388)	22230	50.0000	51.4
11 Acetone	43	1.613	1.613	(0.392)	11382	250.000	268
12 Iodomethane	142	1.686	1.686	(0.410)	36683	100.000	104
142 Acetonitrile	41	1.786	1.786	(0.434)	48040	1000.00	1010
13 Carbon Disulfide	76	1.733	1.733	(0.421)	120921	100.000	105
138 Methyl Acetate	43	1.791	1.791	(0.435)	5848	50.0000	53.9
14 allyl chloride	41	1.786	1.786	(0.434)	48040	100.000	101(Q)
15 Methylene Chloride	84	1.854	1.854	(0.450)	16837	50.0000	49.6
16 Acrylonitrile	53	1.995	1.995	(0.484)	51607	1000.00	1000
27 Propionitrile	54	2.847	2.847	(0.691)	965	50.0000	41.6(Q)
17 tert-Butyl Alcohol	59	1.911	1.911	(0.464)	1832	100.000	118
18 1,2-Dichloroethene (trans)	96	2.026	2.026	(0.492)	18579	50.0000	49.3
19 Methyl-tert-butyl ether	73	2.026	2.026	(0.492)	67458	100.000	100

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	20 n-Hexane	57	2.209	2.209	(0.537)	29829	50.0000	51.8
	146 Chloroprene	53	2.382	2.382	(0.578)	36797	50.0000	50.2
	21 1,1-Dichloroethane	63	2.309	2.309	(0.561)	44445	50.0000	49.9
	23 Vinyl Acetate	43	2.340	2.340	(0.568)	105438	200.000	195
	25 1,2-Dichloroethene (cis)	96	2.790	2.790	(0.677)	25338	50.0000	49.2
	24 2,2-Dichloropropane	77	2.790	2.790	(0.677)	32034	50.0000	49.7
	26 2-Butanone	43	2.800	2.800	(0.680)	23911	250.000	252
	143 Methacrylonitrile	41	2.999	2.999	(0.728)	6637	250.000	247
	29 Bromochloromethane	49	3.015	3.015	(0.732)	14284	50.0000	55.6
	30 Tetrahydrofuran	42	3.083	3.083	(0.749)	3361	50.0000	33.6
	31 Chloroform	83	3.098	3.098	(0.752)	45190	50.0000	50.2
$	32 Dibromofluoromethane (S)	113	3.271	3.271	(0.794)	15059	50.0000	49.8
	33 1,1,1-Trichloroethane	97	3.297	3.297	(0.801)	36629	50.0000	48.7
	139 Cyclohexane	56	3.370	3.370	(0.818)	39566	50.0000	49.9
	37 Isobutyl alcohol	43	3.883	3.883	(0.943)	15479	50.0000	49.8
	36 1,1-Dichloropropene	75	3.496	3.496	(0.849)	34669	50.0000	48.1
	35 Carbon Tetrachloride	117	3.496	3.496	(0.849)	26688	50.0000	52.1
	144 isopropyl acetate	61	1.043	1.043	(0.253)	1774	50.0000	44.2(Q)
	147 2,2,4-Trimethylpentane	57	3.883	3.883	(0.943)	89258	50.0000	48.0
	38 Benzene	78	3.752	3.752	(0.911)	92255	50.0000	47.1
	39 1,2-Dichloroethane	62	3.768	3.768	(0.915)	22704	50.0000	48.1
*	40 Fluorobenzene	96	4.118	4.118	(1.000)	67274	50.0000	
	41 Trichloroethene	95	4.579	4.579	(1.112)	30237	50.0000	52.2
	140 Methylcyclohexane	55	4.798	4.798	(1.165)	37871	50.0000	51.5
	42 1,2-Dichloropropane	63	4.830	4.830	(1.173)	24736	50.0000	52.3
	43 Dibromomethane	93	4.966	4.966	(1.206)	11647	50.0000	49.5
	44 Methyl methacrylate	69	5.028	5.028	(1.221)	10015	50.0000	48.2
	45 Bromodichloromethane	83	5.170	5.170	(1.255)	30377	50.0000	50.3
	46 2-Chloroethyl vinyl ether	63	5.551	5.551	(0.761)	9119	100.000	117
	47 cis-1,3-Dichloropropene	75	5.687	5.687	(0.779)	35938	50.0000	51.6
	48 4-Methyl-2-Pentanone	43	5.876	5.876	(0.805)	68543	250.000	262
$	49 Toluene-d8	98	5.975	5.975	(0.819)	66092	50.0000	48.5
	50 Toluene	91	6.043	6.043	(0.828)	115787	50.0000	53.4
	51 trans-1,3-Dichloropropene	75	6.305	6.305	(0.864)	28521	50.0000	50.7
	52 Ethyl Methacrylate	69	6.441	6.441	(0.882)	24886	50.0000	55.1
	53 1,1,2-Trichloroethane	83	6.482	6.482	(0.888)	16488	50.0000	51.1
	54 Tetrachloroethene	166	6.608	6.608	(0.905)	38426	50.0000	57.0
	55 1,3-Dichloropropane	76	6.634	6.634	(0.909)	29122	50.0000	54.6
	56 2-Hexanone	43	6.739	6.739	(0.923)	46713	250.000	241
	57 Dibromochloromethane	129	6.833	6.833	(0.936)	19145	50.0000	51.8
	58 1,2-Dibromoethane	107	6.911	6.911	(0.947)	17645	50.0000	54.8
*	59 Chlorobenzene-d5	117	7.298	7.298	(1.000)	58912	50.0000	
	60 Chlorobenzene	112	7.319	7.319	(1.003)	75359	50.0000	51.6
	61 1,1,1,2-Tetrachloroethane	131	7.387	7.387	(1.012)	22915	50.0000	54.7
	62 Ethylbenzene	106	7.413	7.413	(1.016)	42578	50.0000	53.6
	63 m&p-Xylene	106	7.502	7.502	(1.028)	99358	100.000	108
	65 o-Xylene	106	7.774	7.774	(1.065)	52170	50.0000	51.3
	66 Styrene	104	7.785	7.785	(1.067)	81217	50.0000	52.0
	67 Bromoform	173	7.900	7.900	(0.898)	12243	50.0000	53.2
	68 Isopropylbenzene	105	8.020	8.020	(1.099)	144366	50.0000	53.4
	69 trans-1,4-Dichloro-2-butene	53	8.240	8.240	(1.129)	4399	50.0000	47.4(Q)
$	70 4-Bromofluorobenzene	95	8.114	8.114	(1.112)	27707	50.0000	49.4
	72 1,1,2,2-Tetrachloroethane	83	8.208	8.208	(0.933)	23636	50.0000	55.6
	71 Bromobenzene	77	8.198	8.198	(1.123)	58417	50.0000	56.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	
73 1,2,3-Trichloropropane	75	8.229	8.229	(0.936)	22929	50.0000	51.8	
74 n-Propylbenzene	91	8.276	8.276	(0.941)	168681	50.0000	50.0	
75 2-Chlorotoluene	91	8.323	8.323	(0.946)	97664	50.0000	50.2	
76 4-Chlorotoluene	126	8.323	8.323	(0.946)	31364	50.0000	49.3	
77 1,3,5-Trimethylbenzene	105	8.381	8.381	(0.953)	112776	50.0000	52.3	
78 tert-Butylbenzene	119	8.569	8.569	(0.974)	116061	50.0000	47.6	
79 1,2,4-Trimethylbenzene	105	8.595	8.595	(0.977)	106544	50.0000	49.4	
80 sec-Butylbenzene	105	8.695	8.695	(0.989)	155410	50.0000	56.9	
81 1,3-Dichlorobenzene	146	8.757	8.757	(0.996)	63723	50.0000	56.5	
83 p-Isopropyltoluene	119	8.773	8.773	(0.998)	117942	50.0000	51.0	
* 82 1,4-Dichlorobenzene-d4	152	8.794	8.794	(1.000)	28356	50.0000		(Q)
84 1,4-Dichlorobenzene	146	8.805	8.805	(1.001)	58361	50.0000	54.5	
86 n-Butylbenzene	91	8.993	8.993	(1.023)	125676	50.0000	48.5	
85 1,2-Dichlorobenzene	146	9.008	9.008	(1.024)	55086	50.0000	50.1	
88 1,2,4-Trichlorobenzene	180	9.830	9.830	(1.118)	44373	50.0000	49.9	
91 1,2,3-Trichlorobenzene	180	10.086	10.086	(1.147)	36493	50.0000	51.4	
87 1,2-Dibromo-3-chloropropane	155	9.411	9.411	(1.070)	2933	50.0000	48.1	
89 Hexachlorobutadiene	225	9.908	9.908	(1.127)	35128	50.0000	54.3	
90 Naphthalene	128	9.960	9.960	(1.133)	63986	50.0000	51.8	
92 2,methyl-naphthalene	142	10.583	10.583	(1.203)	35123	50.0000	46.2	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d01ccv.d
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 16:53
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	64256	32128	128512	67274	4.70
59 Chlorobenzene-d5	57810	28905	115620	58912	1.91
82 1,4-Dichlorobenze	26911	13456	53822	28356	5.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.06
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.03

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

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i
Lab File ID: d01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m

Injection Date: 10-JUN-2011 20:23
Init. Cal. Date(s): 10-JUN-2011 10-JUN-2011
Init. Cal. Times: 13:53 18:03
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.51393	0.44240	0.44240	0.100	-13.91799	20.00000	Averaged	
2 Chloromethane	0.45921	0.38043	0.38043	0.100	-17.15540	20.00000	Averaged	
3 Vinyl Chloride	50.00000	40.88794	0.34826	0.100	-18.22412	0.000e+000	Linear	
4 Bromomethane	50.00000	40.65354	0.18750	0.100	-18.69293	0.000e+000	Linear	
5 Chloroethane	50.00000	40.77928	0.15636	0.100	-18.44144	0.000e+000	Linear	
6 Trichlorofluoromethane	0.49005	0.44344	0.44344	0.100	-9.51034	20.00000	Averaged	
28 1,2-dichlorotrifluoroethane	50.00000	53.17817	0.40213	0.100	6.35634	0.000e+000	Linear	
7 Diethyl ether	50.00000	57.81108	0.11070	0.100	15.62216	0.000e+000	Linear	
8 Acrolein	1000	737	0.01135	0.100	-26.34512	0.000e+000	Linear	
9 1,1-Dichloroethene	50.00000	52.58217	0.29812	0.100	5.16434	0.000e+000	Linear	
10 1,1,2trichlorotrifluoroetha	0.32113	0.33044	0.33044	0.100	2.89934	20.00000	Averaged	
11 Acetone	250	268	0.03384	0.100	7.11995	0.000e+000	Linear	
12 Iodomethane	100	104	0.27264	0.100	3.83179	0.000e+000	Linear	
142 Acetonitrile	1000	1009	0.03570	0.100	0.91458	0.000e+000	Linear	
13 Carbon Disulfide	100	105	0.89872	0.100	5.41688	0.000e+000	Linear	
138 Methyl Acetate	50.00000	53.86932	0.08693	0.100	7.73865	0.000e+000	Linear	
14 allyl chloride	100	101	0.35705	0.100	0.90875	0.000e+000	Linear	
15 Methylene Chloride	50.00000	49.59308	0.25027	0.100	-0.81384	0.000e+000	Linear	
16 Acrylonitrile	1000	1001	0.03836	0.100	0.07022	0.000e+000	Linear	
27 Propionitrile	0.01722	0.01434	0.01434	0.100	-16.69541	20.00000	Averaged	
17 tert-Butyl Alcohol	0.01149	0.01362	0.01362	0.100	18.55208	20.00000	Averaged	
18 1,2-Dichloroethene (trans)	50.00000	49.26735	0.27617	0.100	-1.46530	0.000e+000	Linear	
19 Methyl-tert-butyl ether	100	100	0.50137	0.100	0.32102	0.000e+000	Linear	
20 n-Hexane	50.00000	51.79139	0.44340	0.100	3.58277	0.000e+000	Linear	
146 Chloroprene	50.00000	50.25876	0.54697	0.100	0.51752	0.000e+000	Linear	
21 1,1-Dichloroethane	50.00000	49.88623	0.66066	0.100	-0.22753	0.000e+000	Linear	
23 Vinyl Acetate	200	195	0.39182	0.100	-2.60823	0.000e+000	Linear	
25 1,2-Dichloroethene (cis)	50.00000	49.19194	0.37664	0.100	-1.61612	0.000e+000	Linear	
24 2,2-Dichloropropane	0.47861	0.47617	0.47617	0.100	-0.50900	20.00000	Averaged	
26 2-Butanone	250	252	0.07109	0.100	0.74244	0.000e+000	Linear	
143 Methacrylonitrile	0.01996	0.01973	0.01973	0.100	-1.12255	20.00000	Averaged	
29 Bromochloromethane	50.00000	55.55737	0.21233	0.100	11.11473	0.000e+000	Linear	
30 Tetrahydrofuran	0.07436	0.04996	0.04996	0.100	-32.81566	20.00000	Averaged	<-
31 Chloroform	50.00000	50.23678	0.67173	0.100	0.47355	0.000e+000	Linear	
$ 32 Dibromofluoromethane (S)	0.22468	0.22385	0.22385	0.100	-0.37346	20.00000	Averaged	
33 1,1,1-Trichloroethane	0.55920	0.54447	0.54447	0.100	-2.63384	20.00000	Averaged	
139 Cyclohexane	50.00000	49.89711	0.58813	0.100	-0.20579	0.000e+000	Linear	
37 Isobutyl alcohol	0.23104	0.23009	0.23009	0.100	-0.41359	20.00000	Averaged	
36 1,1-Dichloropropene	50.00000	48.08798	0.51534	0.100	-3.82404	0.000e+000	Linear	
35 Carbon Tetrachloride	0.38070	0.39671	0.39671	0.100	4.20325	20.00000	Averaged	
144 isopropyl acetate	0.02984	0.02637	0.02637	0.100	-11.62738	20.00000	Averaged	
147 2,2,4-Trimethylpentane	50.00000	48.03328	1.32678	0.100	-3.93344	0.000e+000	Linear	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i
Lab File ID: d01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m

Injection Date: 10-JUN-2011 20:23
Init. Cal. Date(s): 10-JUN-2011 10-JUN-2011
Init. Cal. Times: 13:53 18:03
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 Benzene	50.00000	47.08586	1.37133	0.100	-5.82828	0.000e+000	Linear
39 1,2-Dichloroethane	50.00000	48.06848	0.33749	0.100	-3.86304	0.000e+000	Linear
41 Trichloroethene	0.43004	0.44946	0.44946	0.100	4.51558	20.00000	Averaged
140 Methylcyclohexane	50.00000	51.48791	0.56294	0.100	2.97583	0.000e+000	Linear
42 1,2-Dichloropropane	50.00000	52.31360	0.36769	0.100	4.62720	0.000e+000	Linear
43 Dibromomethane	0.17475	0.17313	0.17313	0.100	-0.92825	20.00000	Averaged
141 1,4-Dioxane	++++	++++	++++	0.100	++++	20.00000	Averaged <-
44 Methyl methacrylate	0.15443	0.14887	0.14887	0.100	-3.60098	20.00000	Averaged
45 Bromodichloromethane	0.44912	0.45154	0.45154	0.100	0.53852	20.00000	Averaged
46 2-Chloroethyl vinyl ether	100	117	0.07740	0.100	16.60615	0.000e+000	Linear
47 cis-1,3-Dichloropropene	50.00000	51.57020	0.61003	0.100	3.14039	0.000e+000	Linear
48 4-Methyl-2-Pentanone	250	262	0.23270	0.100	4.63464	0.000e+000	Linear
$ 49 Toluene-d8	1.15587	1.12188	1.12188	0.100	-2.94087	20.00000	Averaged
50 Toluene	50.00000	53.36561	1.96542	0.100	6.73122	0.000e+000	Linear
51 trans-1,3-Dichloropropene	50.00000	50.69163	0.48413	0.100	1.38327	0.000e+000	Linear
52 Ethyl Methacrylate	50.00000	55.06670	0.42243	0.100	10.13340	0.000e+000	Linear
53 1,1,2-Trichloroethane	50.00000	51.07412	0.27988	0.100	2.14825	0.000e+000	Linear
54 Tetrachloroethene	50.00000	56.98621	0.65226	0.100	13.97241	0.000e+000	Linear
55 1,3-Dichloropropane	50.00000	54.61553	0.49433	0.100	9.23107	0.000e+000	Linear
56 2-Hexanone	250	241	0.15859	0.100	-3.40650	0.000e+000	Linear
57 Dibromochloromethane	50.00000	51.81772	0.32498	0.100	3.63544	0.000e+000	Linear
58 1,2-Dibromoethane	50.00000	54.80114	0.29951	0.100	9.60229	0.000e+000	Linear
60 Chlorobenzene	50.00000	51.60761	1.27918	0.300	3.21522	0.000e+000	Linear
61 1,1,1,2-Tetrachloroethane	50.00000	54.71698	0.38897	0.100	9.43397	0.000e+000	Linear
62 Ethylbenzene	50.00000	53.56620	0.72274	0.100	7.13240	0.000e+000	Linear
63 m&p-Xylene	100	109	0.84327	0.100	8.54264	0.000e+000	Linear
65 o-Xylene	50.00000	51.29346	0.88556	0.100	2.58692	0.000e+000	Linear
66 Styrene	50.00000	51.99134	1.37862	0.100	3.98268	0.000e+000	Linear
67 Bromoform	0.40590	0.43176	0.43176	0.100	6.37089	20.00000	Averaged
68 Isopropylbenzene	50.00000	53.38849	2.45054	0.100	6.77698	0.000e+000	Linear
69 trans-1,4-Dichloro-2-butene	50.00000	47.45459	0.07467	0.100	-5.09082	0.000e+000	Linear
$ 70 4-Bromofluorobenzene	0.47576	0.47031	0.47031	0.100	-1.14499	20.00000	Averaged
145 n-amyl acetate	++++	++++	++++	0.100	++++	20.00000	Averaged <-
72 1,1,2,2-Tetrachloroethane	50.00000	55.61463	0.83354	0.300	11.22926	0.000e+000	Linear
71 Bromobenzene	50.00000	56.50371	0.99160	0.100	13.00742	0.000e+000	Linear
73 1,2,3-Trichloropropane	50.00000	51.81167	0.80861	0.100	3.62335	0.000e+000	Linear
74 n-Propylbenzene	50.00000	50.01021	5.94869	0.100	0.02043	0.000e+000	Linear
75 2-Chlorotoluene	50.00000	50.25643	3.44421	0.100	0.51286	0.000e+000	Linear
76 4-Chlorotoluene	50.00000	49.33795	1.10608	0.100	-1.32409	0.000e+000	Linear
77 1,3,5-Trimethylbenzene	50.00000	52.32418	3.97715	0.100	4.64836	0.000e+000	Linear
78 tert-Butylbenzene	50.00000	47.60107	4.09300	0.100	-4.79787	0.000e+000	Linear
79 1,2,4-Trimethylbenzene	50.00000	49.36002	3.75737	0.100	-1.27996	0.000e+000	Linear
80 sec-Butylbenzene	50.00000	56.89015	5.48067	0.100	13.78031	0.000e+000	Linear

Pace Analytical Services, Inc.

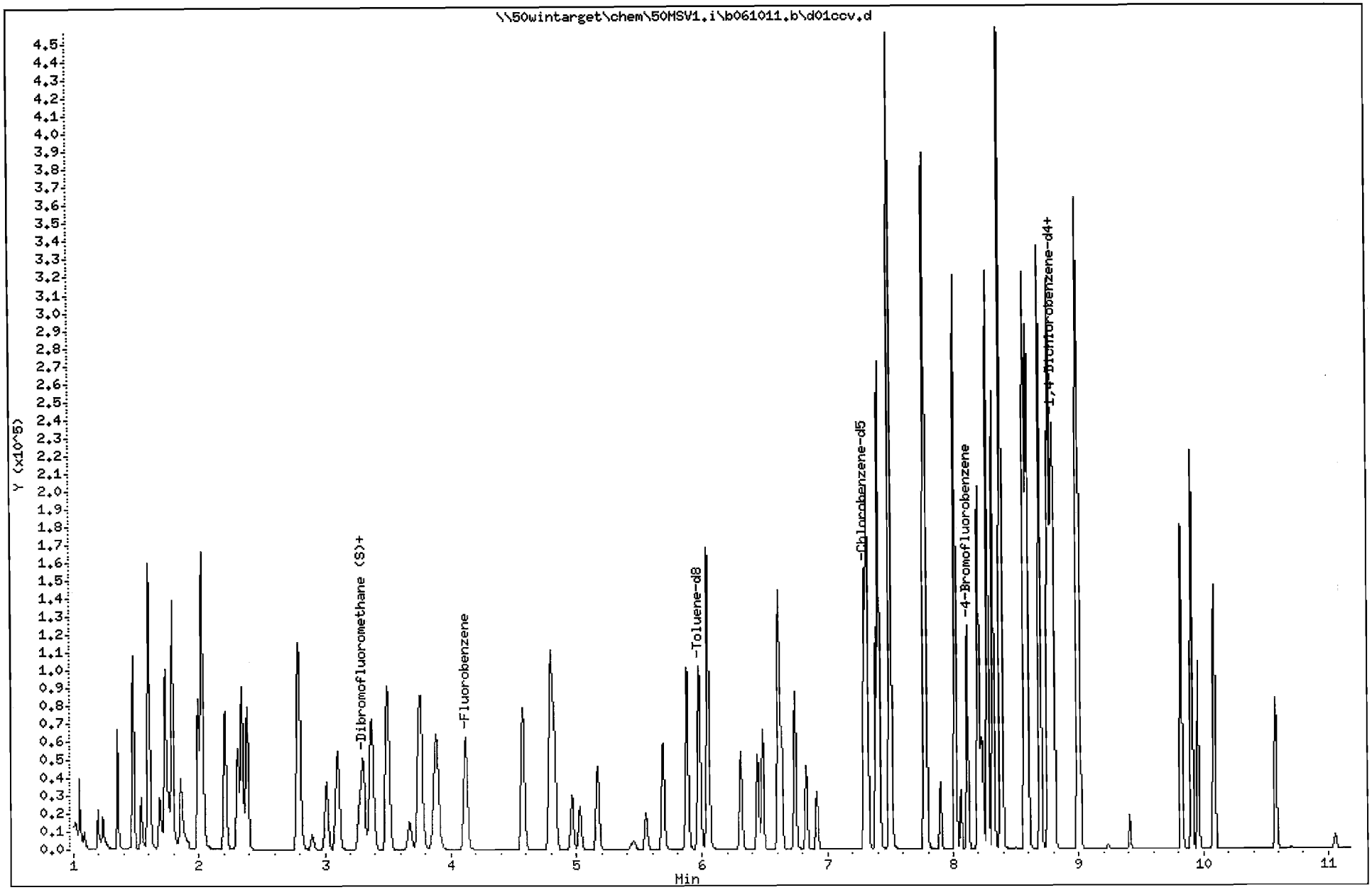
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i Injection Date: 10-JUN-2011 20:23
Lab File ID: d01ccv.d Init. Cal. Date(s): 10-JUN-2011 10-JUN-2011
Analysis Type: WATER Init. Cal. Times: 13:53 18:03
Lab Sample ID: ccv Quant Type: ISTD
Method: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
81 1,3-Dichlorobenzene	50.00000	56.51092	2.24725	0.100	13.02184	0.000e+000	Linear
83 p-Isopropyltoluene	50.00000	50.97173	4.15933	0.100	1.94345	0.000e+000	Linear
84 1,4-Dichlorobenzene	50.00000	54.50833	2.05815	0.100	9.01666	0.000e+000	Linear
86 n-Butylbenzene	50.00000	48.52585	4.43208	0.100	-2.94830	0.000e+000	Linear
85 1,2-Dichlorobenzene	50.00000	50.13182	1.94266	0.100	0.26364	0.000e+000	Linear
88 1,2,4-Trichlorobenzene	50.00000	49.93933	1.56485	0.100	-0.12134	0.000e+000	Linear
91 1,2,3-Trichlorobenzene	50.00000	51.43233	1.28696	0.100	2.86467	0.000e+000	Linear
87 1,2-Dibromo-3-chloropropane	50.00000	48.10908	0.10343	0.100	-3.78185	0.000e+000	Linear
89 Hexachlorobutadiene	50.00000	54.34733	1.23882	0.100	8.69466	0.000e+000	Linear
90 Naphthalene	50.00000	51.81045	2.25652	0.100	3.62091	0.000e+000	Linear
92 2,methyl-naphthalene	50.00000	46.22956	1.23864	0.100	-7.54089	0.000e+000	Linear

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d01ccv.d
Date : 10-JUN-2011 20:23
Client ID: ccv
Sample Info: ccv
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 4: Quality Control Data

**** Laboratory Control Samples (LCS)***
**** Matrix Spike and Spike Duplicate Samples (MS/MSD)***

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\b02lcs.d
Lab Smp Id: lcs Client Smp ID: lcs
Inj Date : 09-JUN-2011 16:32
Operator : rsw Inst ID: 50MSV5.i
Smp Info : lcs 34D-365
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.855	0.855	(0.226)	76022	63.6711	63.7
2 Chloromethane	50	0.934	0.933	(0.247)	47805	40.3724	40.4
3 Vinyl Chloride	62	0.970	0.970	(0.257)	48401	59.4418	59.4
4 Bromomethane	94	1.101	1.101	(0.291)	37908	65.5791	65.6
139 Methyl Acetate	43	1.650	1.650	(0.437)	15617	70.6658	70.7
5 Chloroethane	64	1.143	1.143	(0.303)	26158	55.2520	55.2
6 Trichlorofluoromethane	101	1.247	1.247	(0.330)	86878	56.5511	56.6
7 Diethyl ether	74	1.363	1.362	(0.361)	15625	54.1076	54.1
8 Acrolein	56	1.425	1.425	(0.377)	31015	623.110	623
9 1,1-Dichloroethene	96	1.472	1.472	(0.390)	39550	53.9879	54.0
10 1,1,2trichlorotrifluoroethane	101	1.467	1.467	(0.388)	44090	50.9457	50.9
11 Acetone	43	1.493	1.493	(0.395)	27536	297.291	297
12 Iodomethane	142	1.551	1.551	(0.410)	140491	102.321	102
13 Carbon Disulfide	76	1.587	1.587	(0.420)	241729	99.4663	99.5
142 Acetonitrile	39	1.645	1.645	(0.435)	60853	40.8559	40.8
14 allyl chloride	41	1.645	1.645	(0.435)	80663	82.6336	82.6
15 Methylene Chloride	84	1.708	1.707	(0.452)	38539	57.9671	58.0
16 Acrylonitrile	53	1.844	1.838	(0.488)	124554	1083.12	1080
17 tert-Butyl Alcohol	59	1.755	1.760	(0.464)	3324	143.737	144(Q)
18 1,2-Dichloroethene (trans)	96	1.859	1.854	(0.492)	42710	54.7420	54.7
19 Methyl-tert-butyl ether	73	1.859	1.859	(0.492)	154800	111.614	112
20 n-Hexane	57	2.022	2.016	(0.535)	55020	53.7330	53.7
21 1,1-Dichloroethane	63	2.116	2.115	(0.560)	69119	47.7922	47.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	23 Vinyl Acetate	43	2.147	2.147	(0.568)	152745	177.576	178
	143 Chloroprene	53	2.184	2.178	(0.578)	49553	37.4566	37.4
	24 2,2-Dichloropropane	77	2.550	2.550	(0.675)	58844	52.6105	52.6
	25 1,2-Dichloroethene (cis)	96	2.550	2.544	(0.675)	45903	57.2468	57.2
	26 2-Butanone	43	2.571	2.576	(0.680)	44580	307.416	307
	144 Methacrylonitrile	41	2.754	2.759	(0.729)	10848	256.328	256
	28 1,2-dichlorotrifluoroethane	67	1.357	1.357	(0.359)	45519	50.8507	50.8
	29 Bromochloromethane	49	2.759	2.754	(0.730)	24134	47.6614	47.7
	30 Tetrahydrofuran	42	2.817	2.816	(0.745)	4883	52.8675	52.9
	31 Chloroform	83	2.832	2.832	(0.750)	76630	49.8847	49.9
$	32 Dibromofluoromethane (S)	113	2.989	2.989	(0.791)	40463	49.7823	49.8
	33 1,1,1-Trichloroethane	97	3.010	3.005	(0.797)	70398	52.0813	52.1
	35 Carbon Tetrachloride	117	3.177	3.177	(0.841)	64075	51.3014	51.3
	36 1,1-Dichloropropene	75	3.183	3.177	(0.842)	57549	50.4312	50.4
	37 Isobutyl alcohol	43	3.570	3.522	(0.945)	274723	446.134	446(QR)
	140 Cyclohexane	56	3.057	3.057	(0.809)	59173	46.5788	46.6
	38 Benzene	78	3.413	3.413	(0.903)	172774	61.2567	61.2
	39 1,2-Dichloroethane	62	3.444	3.444	(0.911)	61972	62.8939	62.9
	138 2,2,4-Trimethylpentane	57	3.523	3.522	(0.932)	161405	53.2322	53.2
	141 Methylcyclohexane	55	4.475	4.474	(1.184)	64912	50.0889	50.1
*	40 Fluorobenzene	96	3.779	3.773	(1.000)	161034	50.0000	
	41 Trichloroethene	95	4.255	4.255	(1.126)	53610	57.6786	57.7
	42 1,2-Dichloropropane	63	4.532	4.532	(1.199)	43969	51.6720	51.7
	43 Dibromomethane	93	4.668	4.668	(1.235)	27094	56.1518	56.2
	44 Methyl methacrylate	69	4.752	4.751	(1.257)	80825	253.450	253
	45 Bromodichloromethane	83	4.882	4.882	(1.292)	66558	58.8130	58.8
	46 2-Chloroethyl vinyl ether	63	5.290	5.285	(0.745)	16014	40.8510	40.8(R)
	145 1,4-Dioxane	88	4.741	4.741	(1.255)	6501	1469.02	1470
	47 cis-1,3-Dichloropropene	75	5.416	5.416	(0.762)	67973	47.4745	47.5
	48 4-Methyl-2-Pentanone	43	5.636	5.635	(0.793)	142548	253.528	254
$	49 Toluene-d8	98	5.704	5.703	(0.803)	172252	46.0207	46.0
	50 Toluene	91	5.777	5.777	(0.813)	216798	49.9674	50.0
	51 trans-1,3-Dichloropropene	75	6.054	6.054	(0.852)	58400	48.3799	48.4
	52 Ethyl Methacrylate	69	6.206	6.205	(0.873)	174428	235.959	236
	53 1,1,2-Trichloroethane	83	6.242	6.242	(0.879)	32088	54.4031	54.4
	54 Tetrachloroethene	166	6.363	6.362	(0.895)	66359	53.2953	53.3
	55 1,3-Dichloropropane	76	6.410	6.409	(0.902)	67171	55.4023	55.4
	56 2-Hexanone	43	6.540	6.540	(0.921)	118635	299.547	300
	57 Dibromochloromethane	129	6.619	6.619	(0.932)	50586	54.2734	54.3
	58 1,2-Dibromoethane	107	6.703	6.702	(0.943)	40470	54.2702	54.3
*	59 Chlorobenzene-d5	117	7.105	7.105	(1.000)	146418	50.0000	
	60 Chlorobenzene	112	7.126	7.126	(1.003)	158564	53.2263	53.2
	61 1,1,1,2-Tetrachloroethane	131	7.199	7.199	(1.013)	58453	56.7275	56.7
	62 Ethylbenzene	106	7.226	7.225	(1.017)	87083	55.6556	55.6
	63 m&p-Xylene	106	7.320	7.320	(1.030)	211434	106.740	107
	65 o-Xylene	106	7.597	7.597	(1.069)	103353	57.1293	57.1
	66 Styrene	104	7.607	7.607	(1.071)	175333	57.4541	57.4
	67 Bromoform	173	7.722	7.722	(0.896)	32647	54.0547	54.0
	68 Isopropylbenzene	105	7.848	7.848	(1.105)	281687	58.0244	58.0
	69 trans-1,4-Dichloro-2-butene	53	8.083	8.083	(1.138)	54371	188.672	189(Q)
$	70 4-Bromofluorobenzene	95	7.942	7.942	(1.118)	73574	56.0576	56.0
	71 Bromobenzene	77	8.026	8.026	(1.130)	104123	59.5976	59.6
	72 1,1,2,2-Tetrachloroethane	83	8.047	8.047	(0.933)	51828	53.6477	53.6
	73 1,2,3-Trichloropropane	75	8.083	8.067	(0.938)	68309	64.1031	64.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
74	n-Propylbenzene	91	8.110	8.109	(0.941)	360907	50.4450	50.4
75	2-Chlorotoluene	91	8.151	8.151	(0.945)	206664	52.2588	52.2
76	4-Chlorotoluene	126	8.219	8.219	(0.953)	71129	50.7195	50.7
77	1,3,5-Trimethylbenzene	105	8.214	8.214	(0.953)	241860	50.8448	50.8
78	tert-Butylbenzene	119	8.408	8.407	(0.975)	224188	39.1646	39.2
79	1,2,4-Trimethylbenzene	105	8.434	8.434	(0.978)	242716	52.3260	52.3
80	sec-Butylbenzene	105	8.528	8.528	(0.989)	338563	52.0260	52.0
81	1,3-Dichlorobenzene	146	8.585	8.585	(0.996)	142736	54.5445	54.5
* 82	1,4-Dichlorobenzene-d4	152	8.622	8.622	(1.000)	90460	50.0000	
83	p-Isopropyltoluene	119	8.612	8.611	(0.999)	283874	52.8207	52.8
84	1,4-Dichlorobenzene	146	8.638	8.638	(1.002)	142126	52.2289	52.2
85	1,2-Dichlorobenzene	146	8.842	8.842	(1.025)	131233	55.3667	55.4
86	n-Butylbenzene	91	8.831	8.831	(1.024)	269127	52.6428	52.6
87	1,2-Dibromo-3-chloropropane	155	9.244	9.244	(1.072)	8098	71.5770	71.6(R)
88	1,2,4-Trichlorobenzene	180	9.652	9.657	(1.119)	107424	67.4145	67.4(R)
89	Hexachlorobutadiene	225	9.731	9.736	(1.129)	76134	62.4182	62.4
90	Naphthalene	128	9.778	9.783	(1.134)	206111	78.7124	78.7(R)
91	1,2,3-Trichlorobenzene	180	9.898	9.898	(1.148)	101812	72.7475	72.7(R)
92	2,methyl-naphthalene	142	10.364	10.369	(1.202)	118664	54.2287	54.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b02lcs.d
Lab Smp Id: lcs
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 04:25
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	174975	87488	349950	161034	-7.97
59 Chlorobenzene-d5	166975	83488	333950	146418	-12.31
82 1,4-Dichlorobenze	101237	50619	202474	90460	-10.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.78	0.14
59 Chlorobenzene-d5	7.11	6.61	7.61	7.11	0.00
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: lcs
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info:

Client SDG: b060911.b
Fraction: VOA
Client Smp ID: lcs
Operator: rsw
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	63.7	127.34	19-200
	2 Chloromethane	50.0	40.4	80.74	46-146
	3 Vinyl Chloride	50.0	59.4	118.88	61-146
	4 Bromomethane	50.0	65.6	131.16	23-197
	5 Chloroethane	50.0	55.2	110.50	56-153
	6 Trichlorofluoromet	50.0	56.6	113.10	56-159
	28 1,2-dichlorotriflu	50.0	50.8	101.70	54-162
	7 Diethyl ether	50.0	54.1	108.22	70-130
	8 Acrolein	1000	623	62.31	10-200
	10 1,1,2trichlorotrif	50.0	50.9	101.89	63-134
	9 1,1-Dichloroethene	50.0	54.0	107.98	75-145
	11 Acetone	250	297	118.92	10-200
	12 Iodomethane	100	102	102.32	16-181
	13 Carbon Disulfide	100	99.5	99.47	55-146
	14 allyl chloride	100	82.6	82.63	70-130
	139 Methyl Acetate	50.0	70.7	141.33	10-200
	15 Methylene Chloride	50.0	58.0	115.93	61-138
	17 tert-Butyl Alcohol	100	144	143.74	50-150
	16 Acrylonitrile	1000	1080	108.31	59-144
	19 Methyl-tert-butyl	100	112	111.61	66-128
	18 1,2-Dichloroethene	50.0	54.7	109.48	71-145
	20 n-Hexane	50.0	53.7	107.47	67-142
	21 1,1-Dichloroethane	50.0	47.8	95.58	70-127
	23 Vinyl Acetate	200	178	88.79	27-119
	24 2,2-Dichloropropan	50.0	52.6	105.22	45-138
	25 1,2-Dichloroethene	50.0	57.2	114.49	79-129
	26 2-Butanone	250	307	122.97	42-177
	29 Bromochloromethane	50.0	47.7	95.32	58-153
	31 Chloroform	50.0	49.9	99.77	73-122
$	32 Dibromofluorometha	50.0	49.8	99.56	83-123
	33 1,1,1-Trichloroeth	50.0	52.1	104.16	69-126
	37 Isobutyl alcohol	50.0	446	892.27*	50-150
	140 Cyclohexane	50.0	46.6	93.16	66-133
	36 1,1-Dichloropropen	50.0	50.4	100.86	75-126
	35 Carbon Tetrachlori	50.0	51.3	102.60	65-125
	38 Benzene	50.0	61.2	122.51	76-123
	39 1,2-Dichloroethane	50.0	62.9	125.79	71-127
	41 Trichloroethene	50.0	57.7	115.36	77-122
	141 Methylcyclohexane	50.0	50.1	100.18	69-127
	42 1,2-Dichloropropan	50.0	51.7	103.34	75-126

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
43 Dibromomethane	50.0	56.2	112.30	73-123
44 Methyl methacrylat	200	253	126.73	70-130
45 Bromodichlorometha	50.0	58.8	117.63	71-124
46 2-Chloroethyl viny	100	40.8	40.85*	50-150
47 cis-1,3-Dichloropr	50.0	47.5	94.95	66-123
48 4-Methyl-2-Pentano	250	254	101.41	64-135
$ 49 Toluene-d8	50.0	46.0	92.04	81-114
50 Toluene	50.0	50.0	99.93	74-124
51 trans-1,3-Dichloro	50.0	48.4	96.76	58-118
52 Ethyl Methacrylate	200	236	117.98	70-127
53 1,1,2-Trichloroeth	50.0	54.4	108.81	77-129
54 Tetrachloroethene	50.0	53.3	106.59	57-125
55 1,3-Dichloropropan	50.0	55.4	110.80	77-126
56 2-Hexanone	250	300	119.82	57-162
57 Dibromochlorometha	50.0	54.3	108.55	77-123
58 1,2-Dibromoethane	50.0	54.3	108.54	77-123
60 Chlorobenzene	50.0	53.2	106.45	78-120
61 1,1,1,2-Tetrachlor	50.0	56.7	113.45	69-122
62 Ethylbenzene	50.0	55.6	111.31	75-120
63 m&p-Xylene	100	107	106.74	72-126
65 o-Xylene	50.0	57.1	114.26	72-126
66 Styrene	50.0	57.4	114.91	75-125
67 Bromoform	50.0	54.0	108.11	64-116
68 Isopropylbenzene	50.0	58.0	116.05	73-123
$ 70 4-Bromofluorobenze	50.0	56.0	112.12	72-125
71 Bromobenzene	50.0	59.6	119.20	67-130
72 1,1,2,2-Tetrachlor	50.0	53.6	107.30	68-134
73 1,2,3-Trichloropro	100	64.1	64.10	45-121
69 trans-1,4-Dichloro	200	189	94.34	50-121
74 n-Propylbenzene	50.0	50.4	100.89	71-132
75 2-Chlorotoluene	50.0	52.2	104.52	74-129
76 4-Chlorotoluene	50.0	50.7	101.44	70-125
77 1,3,5-Trimethylben	50.0	50.8	101.69	69-129
78 tert-Butylbenzene	50.0	39.2	78.33	49-114
79 1,2,4-Trimethylben	50.0	52.3	104.65	68-129
80 sec-Butylbenzene	50.0	52.0	104.05	69-130
81 1,3-Dichlorobenzen	50.0	54.5	109.09	76-123
83 p-Isopropyltoluene	50.0	52.8	105.64	71-126
84 1,4-Dichlorobenzen	50.0	52.2	104.46	77-121
86 n-Butylbenzene	50.0	52.6	105.29	69-130
85 1,2-Dichlorobenzen	50.0	55.4	110.73	74-123
87 1,2-Dibromo-3-chlo	50.0	71.6	143.15*	54-138
88 1,2,4-Trichloroben	50.0	67.4	134.83*	64-122
89 Hexachlorobutadien	50.0	62.4	124.84	64-131
90 Naphthalene	50.0	78.7	157.42*	62-130
91 1,2,3-Trichloroben	50.0	72.7	145.49*	63-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	250	49.8	99.56	83-123

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	250	46.0	92.04	81-114
$ 70 4-Bromofluorobenze	250	56.0	112.12	72-125

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: lcs
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060911.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	63.7	
74-87-3	Chloromethane	40.4	
75-01-4	Vinyl Chloride	59.4	
74-83-9	Bromomethane	65.6	
79-20-9	Methyl Acetate	70.7	
75-00-3	Chloroethane	55.2	
75-69-4	Trichlorofluoromethane	56.6	
60-29-7	Diethyl ether	54.1	
107-02-8	Acrolein	623	
75-35-4	1,1-Dichloroethene	54.0	
76-13-1	1,1,2trichlorotrifluoroethan	50.9	
67-64-1	Acetone	297	
	Iodomethane	102	
75-15-0	Carbon Disulfide	99.5	
75-05-8	Acetonitrile	40.8	
107-05-1	allyl chloride	82.6	
75-09-2	Methylene Chloride	58.0	
107-13-1	Acrylonitrile	1080	
75-65-0	tert-Butyl Alcohol	144	
156-60-5	1,2-Dichloroethene (trans)	54.7	
1634-04-4	Methyl-tert-butyl ether	112	
	n-Hexane	53.7	
75-34-3	1,1-Dichloroethane	47.8	
108-05-4	Vinyl Acetate	178	
126-99-8	Chloroprene	37.4	
594-20-7	2,2-Dichloropropane	52.6	
156-59-2	1,2-Dichloroethene (cis)	57.2	
78-93-3	2-Butanone	307	
126-98-7	Methacrylonitrile	256	
354-23-4	1,2-dichlorotrifluoroethane	50.8	
74-97-5	Bromochloromethane	47.7	
	Tetrahydrofuran	52.9	
67-66-3	Chloroform	49.9	
71-55-6	1,1,1-Trichloroethane	52.1	
56-23-5	Carbon Tetrachloride	51.3	
563-58-6	1,1-Dichloropropene	50.4	
78-83-1	Isobutyl alcohol	446	
110-82-7	Cyclohexane	46.6	
71-43-2	Benzene	61.2	
107-06-2	1,2-Dichloroethane	62.9	
540-84-1	2,2,4-Trimethylpentane	53.2	
108-82-7	Methylcyclohexane	50.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: lcs
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060911.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	57.7	
78-87-5	1,2-Dichloropropane	51.7	
74-95-3	Dibromomethane	56.2	
80-62-6	Methyl methacrylate	253	
75-27-4	Bromodichloromethane	58.8	
110-75-8	2-Chloroethyl vinyl ether	40.8	
	1,4-Dioxane	1470	
10061-01-5	cis-1,3-Dichloropropene	47.5	
108-10-1	4-Methyl-2-Pentanone	254	
108-88-3	Toluene	50.0	
10061-02-6	trans-1,3-Dichloropropene	48.4	
	Ethyl Methacrylate	236	
79-00-5	1,1,2-Trichloroethane	54.4	
127-18-4	Tetrachloroethene	53.3	
142-28-9	1,3-Dichloropropane	55.4	
591-78-6	2-Hexanone	300	
124-48-1	Dibromochloromethane	54.3	
106-93-4	1,2-Dibromoethane	54.3	
108-90-7	Chlorobenzene	53.2	
630-20-6	1,1,1,2-Tetrachloroethane	56.7	
100-41-4	Ethylbenzene	55.6	
7816-60-0	m&p-Xylene	107	
95-47-6	o-Xylene	57.1	
100-42-5	Styrene	57.4	
75-25-2	Bromoform	54.0	
98-82-8	Isopropylbenzene	58.0	
	trans-1,4-Dichloro-2-butene	189	
108-86-1	Bromobenzene	59.6	
79-34-5	1,1,2,2-Tetrachloroethane	53.6	
96-18-4	1,2,3-Trichloropropane	64.1	
103-65-1	n-Propylbenzene	50.4	
95-49-8	2-Chlorotoluene	52.2	
106-43-4	4-Chlorotoluene	50.7	
108-67-8	1,3,5-Trimethylbenzene	50.8	
98-06-6	tert-Butylbenzene	39.2	
95-63-6	1,2,4-Trimethylbenzene	52.3	
135-98-8	sec-Butylbenzene	52.0	
541-73-1	1,3-Dichlorobenzene	54.5	
99-87-6	p-Isopropyltoluene	52.8	
106-46-7	1,4-Dichlorobenzene	52.2	
95-50-1	1,2-Dichlorobenzene	55.4	
104-51-8	n-Butylbenzene	52.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: lcs
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

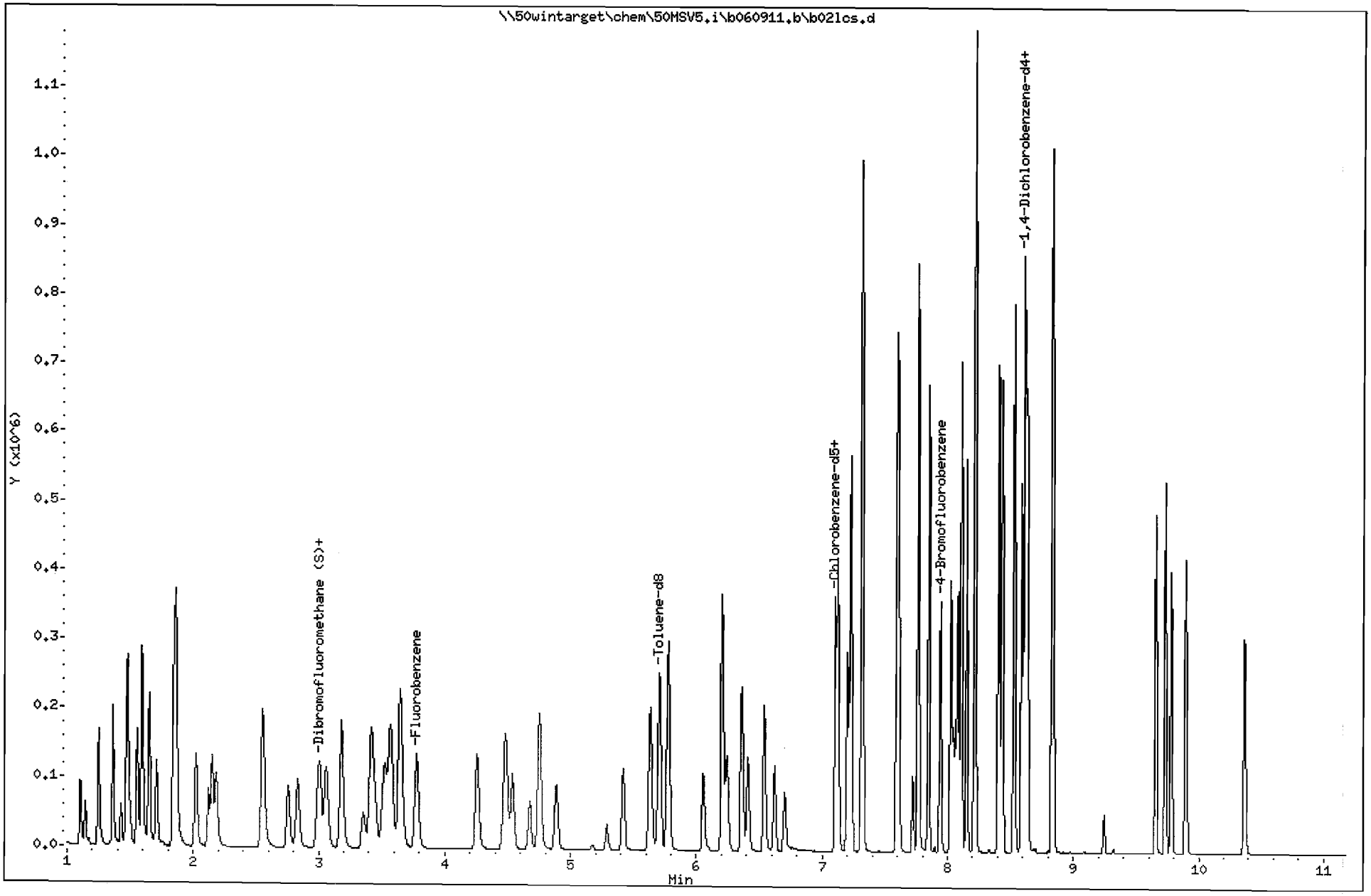
Client SDG: b060911.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	71.6	
120-82-1	1,2,4-Trichlorobenzene	67.4	
87-68-3	Hexachlorobutadiene	62.4	
91-20-3	Naphthalene	78.7	
87-61-6	1,2,3-Trichlorobenzene	72.7	
	2,methyl-naphthalene	54.2	
1868-53-7	Dibromofluoromethane (S)	49.8	
2037-26-5	Toluene-d8	46.0	
460-00-4	4-Bromofluorobenzene	56.0	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b02lcs.d
Date : 09-JUN-2011 16:32
Client ID: lcs
Sample Info: lcs 34D-365
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b02lcs.d

Date : 09-JUN-2011 16:32

Client ID: lcs

Instrument: 50MSV5.i

Sample Info: lcs 34D-365

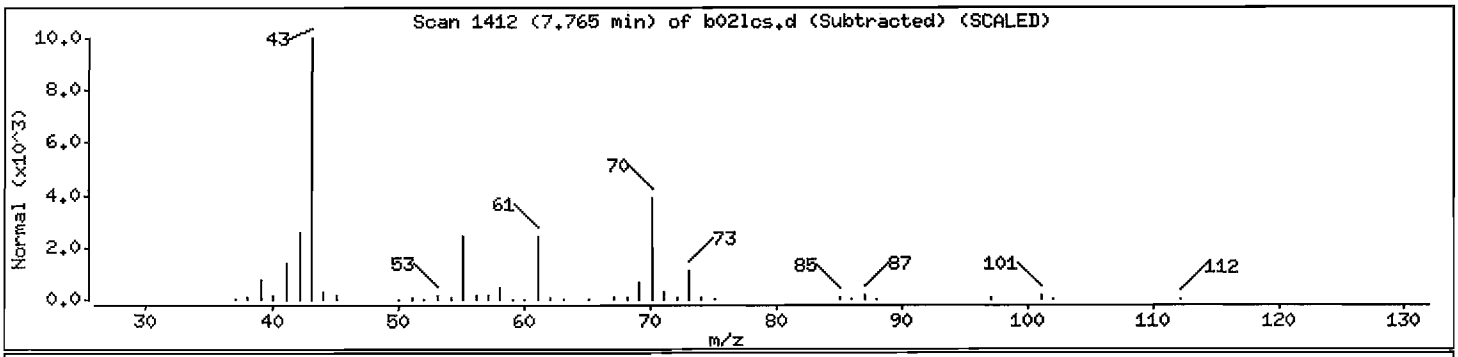
Purge Volume: 5.0

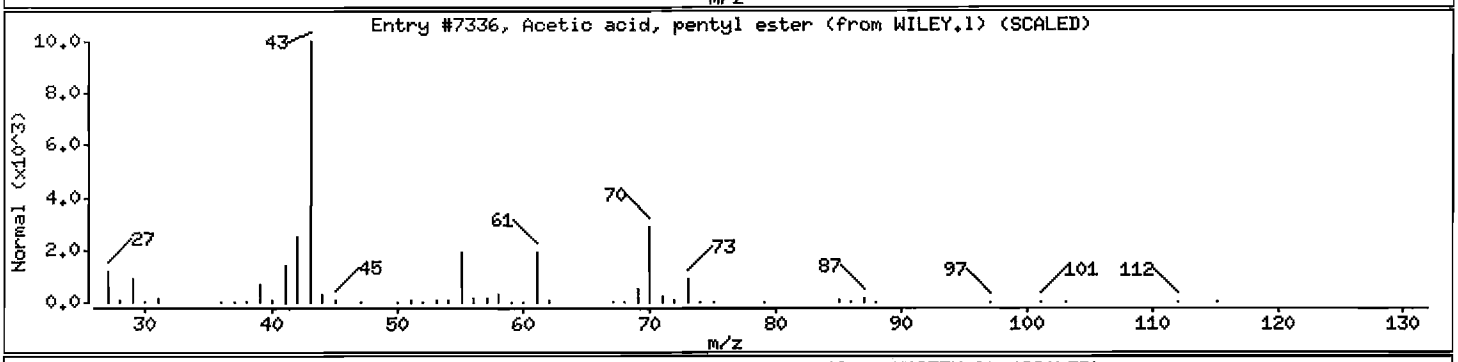
Operator: rsw

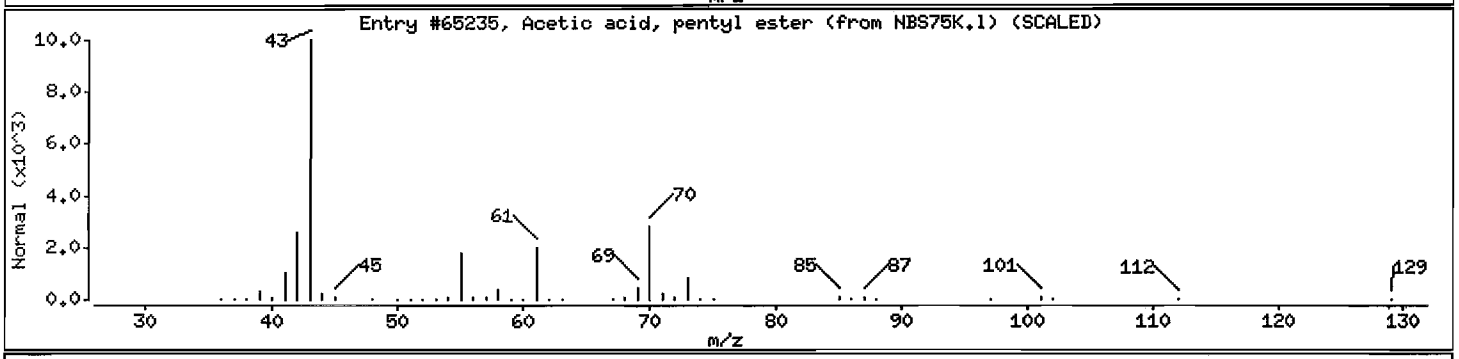
Column phase: DB-624

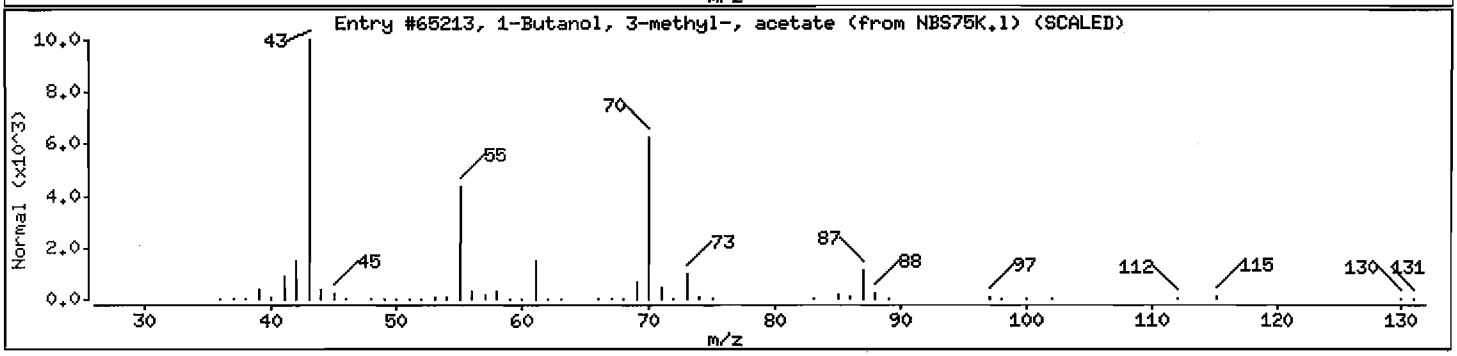
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY.l	7336	90	C7H1402	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65235	83	C7H1402	130
1-Butanol, 3-methyl-, acetate	123-92-2	NBS75K.l	65213	59	C7H1402	130









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\d02lcs.d
Lab Smp Id: 583599 Client Smp ID: lcs
Inj Date : 10-JUN-2011 05:02
Operator : rsw Inst ID: 50MSV5.i
Smp Info : lcs
Misc Info : 33174
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 46 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.855	0.855	(0.227)	73225	55.3396	55.3
2 Chloromethane	50	0.934	0.933	(0.248)	47287	36.0353	36.0
3 Vinyl Chloride	62	0.970	0.970	(0.257)	48237	53.4554	53.4
4 Bromomethane	94	1.106	1.101	(0.293)	37973	59.2824	59.3
139 Methyl Acetate	43	1.650	1.650	(0.437)	12505	51.0587	51.0
5 Chloroethane	64	1.143	1.143	(0.303)	26318	50.1615	50.2
6 Trichlorofluoromethane	101	1.248	1.247	(0.331)	87913	51.6367	51.6
7 Diethyl ether	74	1.363	1.362	(0.361)	15851	49.5106	49.5
8 Acrolein	56	1.425	1.425	(0.378)	31388	568.476	568
9 1,1-Dichloroethene	96	1.472	1.472	(0.390)	41112	50.6399	50.6
10 1,1,2trichlorotrifluoroethane	101	1.467	1.467	(0.389)	46050	48.0144	48.0
11 Acetone	43	1.493	1.493	(0.396)	23540	226.238	226
12 Iodomethane	142	1.551	1.551	(0.411)	128605	84.9562	85.0
13 Carbon Disulfide	76	1.588	1.587	(0.421)	215275	79.6575	79.6
142 Acetonitrile	39	1.645	1.645	(0.436)	50267	30.4530	30.4
14 allyl chloride	41	1.645	1.645	(0.436)	66954	61.8918	61.9
15 Methylene Chloride	84	1.708	1.707	(0.453)	33420	43.8622	43.9
16 Acrylonitrile	53	1.839	1.838	(0.487)	107001	839.613	840
17 tert-Butyl Alcohol	59	1.760	1.760	(0.466)	2752	106.314	106(Q)
18 1,2-Dichloroethene (trans)	96	1.854	1.854	(0.491)	38527	44.5585	44.6
19 Methyl-tert-butyl ether	73	1.859	1.859	(0.493)	131229	85.2998	85.3
20 n-Hexane	57	2.016	2.016	(0.534)	49849	43.9289	43.9
21 1,1-Dichloroethane	63	2.116	2.115	(0.561)	61770	38.5400	38.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	23 Vinyl Acetate	43	2.147	2.147	(0.569)	156753	164.501	164
	143 Chloroprene	53	2.179	2.178	(0.577)	57830	39.4444	39.4
	24 2,2-Dichloropropane	77	2.545	2.550	(0.674)	63460	51.1970	51.2
	25 1,2-Dichloroethene (cis)	96	2.545	2.544	(0.674)	49936	56.1951	56.2
	26 2-Butanone	43	2.576	2.576	(0.683)	47732	297.009	297
	144 Methacrylonitrile	41	2.759	2.759	(0.731)	13075	278.781	279
	28 1,2-dichlorotrifluoroethane	67	1.357	1.357	(0.360)	48985	49.3790	49.4
	29 Bromochloromethane	49	2.754	2.754	(0.730)	29792	53.3534	53.4
	30 Tetrahydrofuran	42	2.817	2.816	(0.746)	5541	54.3574	54.4
	31 Chloroform	83	2.832	2.832	(0.751)	90203	52.9863	53.0
$	32 Dibromofluoromethane (S)	113	2.989	2.989	(0.792)	49789	55.2745	55.3
	33 1,1,1-Trichloroethane	97	3.005	3.005	(0.796)	86985	58.0685	58.1
	35 Carbon Tetrachloride	117	3.177	3.177	(0.842)	80535	58.3588	58.4
	36 1,1-Dichloropropene	75	3.177	3.177	(0.842)	67576	53.4352	53.4
	37 Isobutyl alcohol	43	3.570	3.522	(0.946)	260725	382.279	382(QR)
	140 Cyclohexane	56	3.057	3.057	(0.810)	72633	51.5909	51.6
	38 Benzene	78	3.413	3.413	(0.904)	174154	55.7163	55.7
	39 1,2-Dichloroethane	62	3.444	3.444	(0.913)	64339	58.9198	58.9
	138 2,2,4-Trimethylpentane	57	3.523	3.522	(0.933)	159377	47.4304	47.4
	141 Methylcyclohexane	55	4.480	4.474	(1.187)	67733	47.1618	47.2
*	40 Fluorobenzene	96	3.774	3.773	(1.000)	178461	50.0000	
	41 Trichloroethene	95	4.255	4.255	(1.127)	55267	53.6548	53.6
	42 1,2-Dichloropropane	63	4.532	4.532	(1.201)	45387	48.1298	48.1
	43 Dibromomethane	93	4.668	4.668	(1.237)	27214	50.8963	50.9
	44 Methyl methacrylate	69	4.747	4.751	(1.258)	81086	229.318	229
	45 Bromodichloromethane	83	4.888	4.882	(1.295)	68329	54.3608	54.4
	46 2-Chloroethyl vinyl ether	63	5.291	5.285	(0.745)	15506	34.8250	34.8
	145 1,4-Dioxane	88	4.741	4.741	(1.256)	6634	1352.69	1350
	47 cis-1,3-Dichloropropene	75	5.416	5.416	(0.762)	65989	40.2043	40.2
	48 4-Methyl-2-Pentanone	43	5.636	5.635	(0.793)	139438	216.627	217
$	49 Toluene-d8	98	5.704	5.703	(0.803)	193155	44.9374	44.9
	50 Toluene	91	5.777	5.777	(0.813)	226330	45.1301	45.1
	51 trans-1,3-Dichloropropene	75	6.054	6.054	(0.852)	55441	40.2955	40.3
	52 Ethyl Methacrylate	69	6.206	6.205	(0.873)	174556	205.433	205
	53 1,1,2-Trichloroethane	83	6.242	6.242	(0.879)	32251	47.6143	47.6
	54 Tetrachloroethene	166	6.363	6.362	(0.895)	68050	47.5916	47.6
	55 1,3-Dichloropropane	76	6.410	6.409	(0.902)	67571	48.5310	48.5
	56 2-Hexanone	43	6.541	6.540	(0.921)	103981	230.193	230
	57 Dibromochloromethane	129	6.619	6.619	(0.932)	52333	49.0142	49.0
	58 1,2-Dibromoethane	107	6.703	6.702	(0.943)	43606	50.9185	50.9
*	59 Chlorobenzene-d5	117	7.105	7.105	(1.000)	168144	50.0000	
	60 Chlorobenzene	112	7.126	7.126	(1.003)	163259	47.7213	47.7
	61 1,1,1,2-Tetrachloroethane	131	7.200	7.199	(1.013)	58877	49.9299	49.9
	62 Ethylbenzene	106	7.226	7.225	(1.017)	90157	50.1751	50.2
	63 m&p-Xylene	106	7.320	7.320	(1.030)	216088	94.9941	95.0
	65 o-Xylene	106	7.597	7.597	(1.069)	106521	51.2725	51.3
	66 Styrene	104	7.608	7.607	(1.071)	178064	50.8097	50.8
	67 Bromoform	173	7.723	7.722	(0.895)	32227	47.6842	47.7
	68 Isopropylbenzene	105	7.848	7.848	(1.105)	291020	52.2011	52.2
	69 trans-1,4-Dichloro-2-butene	53	8.083	8.083	(1.138)	45522	138.516	138(Q)
$	70 4-Bromofluorobenzene	95	7.942	7.942	(1.118)	79950	53.0447	53.0
	71 Bromobenzene	77	8.026	8.026	(1.130)	107091	53.3763	53.4
	72 1,1,2,2-Tetrachloroethane	83	8.047	8.047	(0.933)	51455	47.1950	47.2
	73 1,2,3-Trichloropropane	75	8.068	8.067	(0.935)	43523	35.6840	35.7(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
74 n-Propylbenzene	91	8.110	8.109	(0.940)	362862	44.9414	44.9
75 2-Chlorotoluene	91	8.151	8.151	(0.945)	214045	47.9603	48.0
76 4-Chlorotoluene	126	8.219	8.219	(0.953)	72045	45.5213	45.5
77 1,3,5-Trimethylbenzene	105	8.214	8.214	(0.952)	245184	45.6727	45.7
78 tert-Butylbenzene	119	8.408	8.407	(0.975)	238201	36.8495	36.8
79 1,2,4-Trimethylbenzene	105	8.434	8.434	(0.978)	248717	47.5123	47.5
80 sec-Butylbenzene	105	8.528	8.528	(0.988)	350813	47.7682	47.8
81 1,3-Dichlorobenzene	146	8.586	8.585	(0.995)	140814	47.6810	47.7
* 82 1,4-Dichlorobenzene-d4	152	8.627	8.622	(1.000)	102088	50.0000	
83 p-Isopropyltoluene	119	8.612	8.611	(0.998)	289294	47.6980	47.7
84 1,4-Dichlorobenzene	146	8.638	8.638	(1.001)	140861	45.8680	45.9
85 1,2-Dichlorobenzene	146	8.842	8.842	(1.025)	133106	49.7606	49.8
86 n-Butylbenzene	91	8.831	8.831	(1.024)	267541	46.3718	46.4
87 1,2-Dibromo-3-chloropropane	155	9.245	9.244	(1.072)	7961	62.6982	62.7
88 1,2,4-Trichlorobenzene	180	9.653	9.657	(1.119)	98513	54.7806	54.8
89 Hexachlorobutadiene	225	9.731	9.736	(1.128)	73459	53.7737	53.8
90 Naphthalene	128	9.778	9.783	(1.133)	204188	69.0962	69.1(R)
91 1,2,3-Trichlorobenzene	180	9.898	9.898	(1.147)	97591	61.7889	61.8
92 2,methyl-naphthalene	142	10.369	10.369	(1.202)	105557	43.9278	43.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: d02lcs.d
Lab Smp Id: 583599
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33174

Calibration Date: 10-JUN-2011
Calibration Time: 04:25
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	174975	87488	349950	178461	1.99
59 Chlorobenzene-d5	166975	83488	333950	168144	0.70
82 1,4-Dichlorobenze	101237	50619	202474	102088	0.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.77	0.01
59 Chlorobenzene-d5	7.11	6.61	7.61	7.11	0.00
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.63	0.06

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 583599
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-s.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33174

Client SDG: b060911.b
Fraction: VOA
Client Smp ID: lcs
Operator: rsw
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	55.3	110.68	25-200
2 Chloromethane	50.0	36.0	72.07	56-142
3 Vinyl Chloride	50.0	53.4	106.91	69-138
4 Bromomethane	50.0	59.3	118.56	18-190
5 Chloroethane	50.0	50.2	100.32	55-159
6 Trichlorofluoromet	50.0	51.6	103.27	57-151
28 1,2-dichlorotriflu	50.0	49.4	98.76	50-150
7 Diethyl ether	50.0	49.5	99.02	30-170
8 Acrolein	1000	568	56.85	10-200
10 1,1,2trichlorotrif	50.0	48.0	96.03	70-130
9 1,1-Dichloroethene	50.0	50.6	101.28	80-137
11 Acetone	250	226	90.50	10-200
12 Iodomethane	100	85.0	84.96	26-171
13 Carbon Disulfide	100	79.6	79.66	68-127
14 allyl chloride	50.0	61.9	123.78	70-130
139 Methyl Acetate	100	51.0	51.06	30-191
15 Methylene Chloride	50.0	43.9	87.72	66-128
16 Acrylonitrile	1000	840	83.96	70-126
19 Methyl-tert-butyl	100	85.3	85.30	69-125
18 1,2-Dichloroethene	50.0	44.6	89.12	79-134
20 n-Hexane	50.0	43.9	87.86	71-148
21 1,1-Dichloroethane	50.0	38.5	77.08	73-122
23 Vinyl Acetate	200	164	82.25	29-122
24 2,2-Dichloropropan	50.0	51.2	102.39	55-128
25 1,2-Dichloroethene	50.0	56.2	112.39	82-125
26 2-Butanone	250	297	118.80	39-186
29 Bromochloromethane	50.0	53.4	106.71	70-131
30 Tetrahydrofuran	50.0	54.4	108.71	25-200
31 Chloroform	50.0	53.0	105.97	74-118
$ 32 Dibromofluorometha	50.0	55.3	110.55	71-125
33 1,1,1-Trichloroeth	50.0	58.1	116.14	73-123
37 Isobutyl alcohol	50.0	382	764.56*	25-200
140 Cyclohexane	50.0	51.6	103.18	63-127
36 1,1-Dichloropropen	50.0	53.4	106.87	77-121
35 Carbon Tetrachlori	50.0	58.4	116.72	65-127
38 Benzene	50.0	55.7	111.43	77-123
39 1,2-Dichloroethane	50.0	58.9	117.84	72-125
41 Trichloroethene	50.0	53.6	107.31	79-119
141 Methylcyclohexane	50.0	47.2	94.32	71-123
42 1,2-Dichloropropan	50.0	48.1	96.26	76-121

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
43 Dibromomethane	50.0	50.9	101.79	76-121
44 Methyl methacrylat	200	229	114.66	25-200
45 Bromodichlorometha	50.0	54.4	108.72	74-120
46 2-Chloroethyl viny	50.0	34.8	69.65	50-150
47 cis-1,3-Dichloropr	50.0	40.2	80.41	67-118
48 4-Methyl-2-Pentano	250	217	86.65	67-124
$ 49 Toluene-d8	50.0	44.9	89.87	76-124
50 Toluene	50.0	45.1	90.26	74-121
51 trans-1,3-Dichloro	50.0	40.3	80.59	59-113
52 Ethyl Methacrylate	200	205	102.72	70-122
53 1,1,2-Trichloroeth	50.0	47.6	95.23	78-124
54 Tetrachloroethene	50.0	47.6	95.18	69-112
55 1,3-Dichloropropan	50.0	48.5	97.06	78-121
56 2-Hexanone	250	230	92.08	53-168
57 Dibromochlorometha	50.0	49.0	98.03	70-123
58 1,2-Dibromoethane	50.0	50.9	101.84	79-119
60 Chlorobenzene	50.0	47.7	95.44	80-116
61 1,1,1,2-Tetrachlor	50.0	49.9	99.86	70-118
62 Ethylbenzene	50.0	50.2	100.35	77-120
63 m&p-Xylene	100	95.0	94.99	75-122
65 o-Xylene	50.0	51.3	102.54	75-122
66 Styrene	50.0	50.8	101.62	76-120
67 Bromoform	50.0	47.7	95.37	65-116
68 Isopropylbenzene	50.0	52.2	104.40	75-118
$ 70 4-Bromofluorobenze	50.0	53.0	106.09	67-134
71 Bromobenzene	50.0	53.4	106.75	73-120
72 1,1,2,2-Tetrachlor	50.0	47.2	94.39	71-127
73 1,2,3-Trichloropro	100	35.7	35.68*	47-117
69 trans-1,4-Dichloro	200	138	69.26	51-118
74 n-Propylbenzene	50.0	44.9	89.88	74-124
75 2-Chlorotoluene	50.0	48.0	95.92	76-122
76 4-Chlorotoluene	50.0	45.5	91.04	73-121
77 1,3,5-Trimethylben	50.0	45.7	91.35	70-122
78 tert-Butylbenzene	50.0	36.8	73.70	46-117
79 1,2,4-Trimethylben	50.0	47.5	95.02	70-122
80 sec-Butylbenzene	50.0	47.8	95.54	70-126
81 1,3-Dichlorobenzen	50.0	47.7	95.36	78-120
83 p-Isopropyltoluene	50.0	47.7	95.40	71-123
84 1,4-Dichlorobenzen	50.0	45.9	91.74	77-117
86 n-Butylbenzene	50.0	46.4	92.74	68-126
85 1,2-Dichlorobenzen	50.0	49.8	99.52	76-120
87 1,2-Dibromo-3-chlo	50.0	62.7	125.40	56-139
88 1,2,4-Trichloroben	50.0	54.8	109.56	64-121
89 Hexachlorobutadien	50.0	53.8	107.55	64-127
90 Naphthalene	50.0	69.1	138.19*	68-129
91 1,2,3-Trichloroben	50.0	61.8	123.58	67-125
92 2,methyl-naphthale	50.0	43.9	87.86	25-200

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	250	55.3	110.55	83-123

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	250	44.9	89.87	81-114
$ 70 4-Bromofluorobenze	250	53.0	106.09	72-125

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 583599
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33174

Client SDG: b060911.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	55.3	
74-87-3	Chloromethane	36.0	
75-01-4	Vinyl Chloride	53.4	
74-83-9	Bromomethane	59.3	
79-20-9	Methyl Acetate	51.0	
75-00-3	Chloroethane	50.2	
75-69-4	Trichlorofluoromethane	51.6	
60-29-7	Diethyl ether	49.5	
107-02-8	Acrolein	568	
75-35-4	1,1-Dichloroethene	50.6	
76-13-1	1,1,2trichlorotrifluoroethan	48.0	
67-64-1	Acetone	226	
	Iodomethane	85.0	
75-15-0	Carbon Disulfide	79.6	
75-05-8	Acetonitrile	30.4	
107-05-1	allyl chloride	61.9	
75-09-2	Methylene Chloride	43.9	
107-13-1	Acrylonitrile	840	
75-65-0	tert-Butyl Alcohol	106	
156-60-5	1,2-Dichloroethene (trans)	44.6	
1634-04-4	Methyl-tert-butyl ether	85.3	
	n-Hexane	43.9	
75-34-3	1,1-Dichloroethane	38.5	
108-05-4	Vinyl Acetate	164	
126-99-8	Chloroprene	39.4	
594-20-7	2,2-Dichloropropane	51.2	
156-59-2	1,2-Dichloroethene (cis)	56.2	
78-93-3	2-Butanone	297	
126-98-7	Methacrylonitrile	279	
354-23-4	1,2-dichlorotrifluoroethane	49.4	
74-97-5	Bromochloromethane	53.4	
	Tetrahydrofuran	54.4	
67-66-3	Chloroform	53.0	
71-55-6	1,1,1-Trichloroethane	58.1	
56-23-5	Carbon Tetrachloride	58.4	
563-58-6	1,1-Dichloropropene	53.4	
78-83-1	Isobutyl alcohol	382	
110-82-7	Cyclohexane	51.6	
71-43-2	Benzene	55.7	
107-06-2	1,2-Dichloroethane	58.9	
540-84-1	2,2,4-Trimethylpentane	47.4	
108-82-7	Methylcyclohexane	47.2	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 583599
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33174

Client SDG: b060911.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	53.6	
78-87-5	1,2-Dichloropropane	48.1	
74-95-3	Dibromomethane	50.9	
80-62-6	Methyl methacrylate	229	
75-27-4	Bromodichloromethane	54.4	
110-75-8	2-Chloroethyl vinyl ether	34.8	
	1,4-Dioxane	1350	
10061-01-5	cis-1,3-Dichloropropene	40.2	
108-10-1	4-Methyl-2-Pentanone	217	
108-88-3	Toluene	45.1	
10061-02-6	trans-1,3-Dichloropropene	40.3	
	Ethyl Methacrylate	205	
79-00-5	1,1,2-Trichloroethane	47.6	
127-18-4	Tetrachloroethene	47.6	
142-28-9	1,3-Dichloropropane	48.5	
591-78-6	2-Hexanone	230	
124-48-1	Dibromochloromethane	49.0	
106-93-4	1,2-Dibromoethane	50.9	
108-90-7	Chlorobenzene	47.7	
630-20-6	1,1,1,2-Tetrachloroethane	49.9	
100-41-4	Ethylbenzene	50.2	
7816-60-0	m&p-Xylene	95.0	
95-47-6	o-Xylene	51.3	
100-42-5	Styrene	50.8	
75-25-2	Bromoform	47.7	
98-82-8	Isopropylbenzene	52.2	
	trans-1,4-Dichloro-2-butene	138	
108-86-1	Bromobenzene	53.4	
79-34-5	1,1,2,2-Tetrachloroethane	47.2	
96-18-4	1,2,3-Trichloropropane	35.7	
103-65-1	n-Propylbenzene	44.9	
95-49-8	2-Chlorotoluene	48.0	
106-43-4	4-Chlorotoluene	45.5	
108-67-8	1,3,5-Trimethylbenzene	45.7	
98-06-6	tert-Butylbenzene	36.8	
95-63-6	1,2,4-Trimethylbenzene	47.5	
135-98-8	sec-Butylbenzene	47.8	
541-73-1	1,3-Dichlorobenzene	47.7	
99-87-6	p-Isopropyltoluene	47.7	
106-46-7	1,4-Dichlorobenzene	45.9	
95-50-1	1,2-Dichlorobenzene	49.8	
104-51-8	n-Butylbenzene	46.4	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 583599
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33174

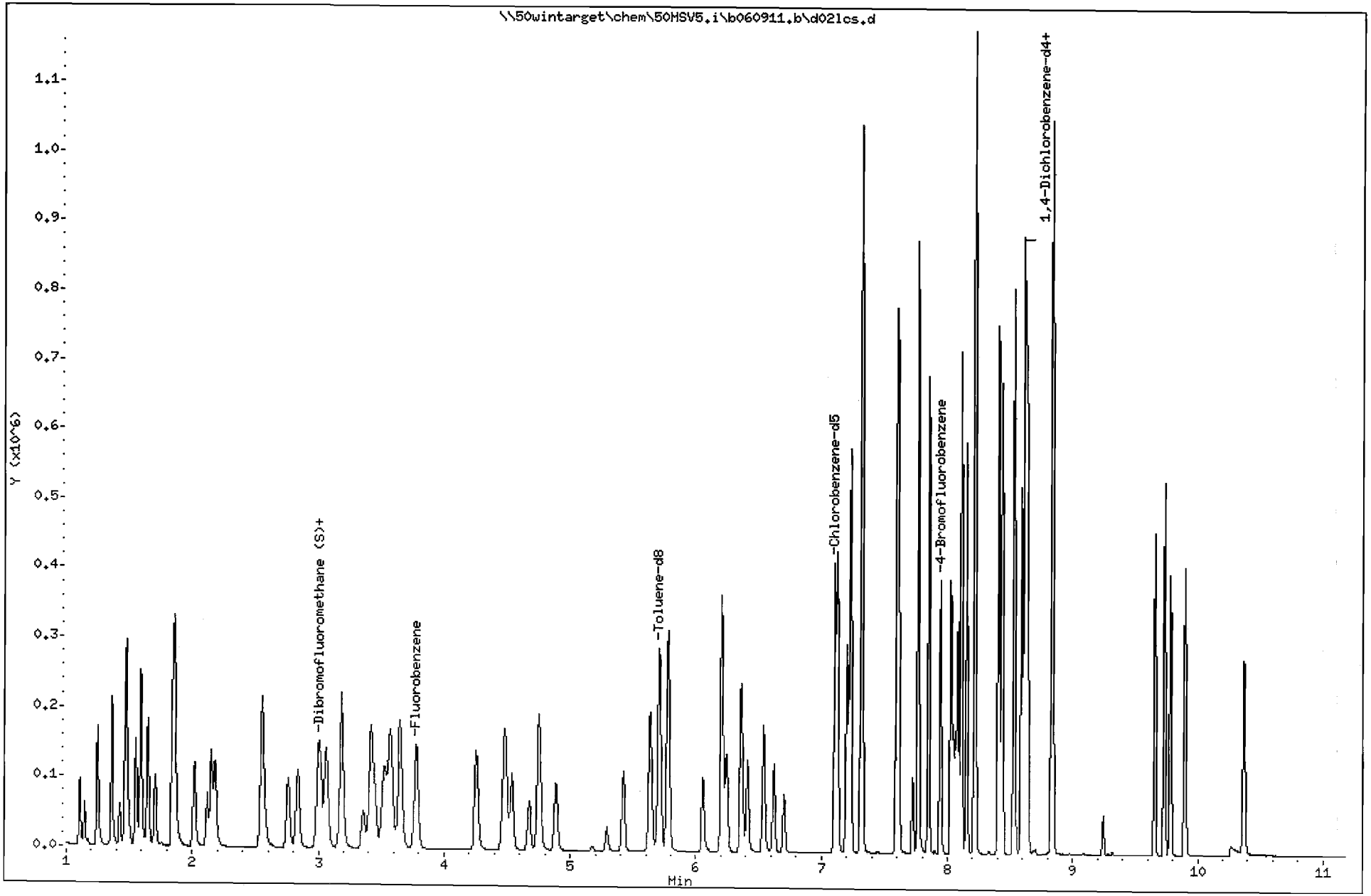
Client SDG: b060911.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	62.7	
120-82-1	1,2,4-Trichlorobenzene	54.8	
87-68-3	Hexachlorobutadiene	53.8	
91-20-3	Naphthalene	69.1	
87-61-6	1,2,3-Trichlorobenzene	61.8	
	2,methyl-naphthalene	43.9	
1868-53-7	Dibromofluoromethane (S)	55.3	
2037-26-5	Toluene-d8	44.9	
460-00-4	4-Bromofluorobenzene	53.0	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d02lcs.d
Date : 10-JUN-2011 05:02
Client ID: lcs
Sample Info: lcs
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d02lcs.d

Date : 10-JUN-2011 05:02

Client ID: lcs

Instrument: 50MSV5.i

Sample Info: lcs

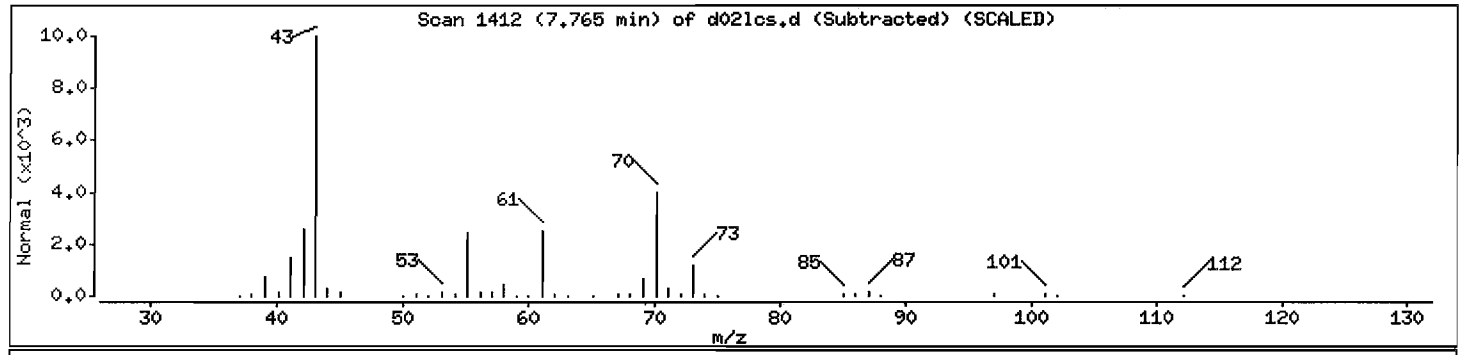
Purge Volume: 5.0

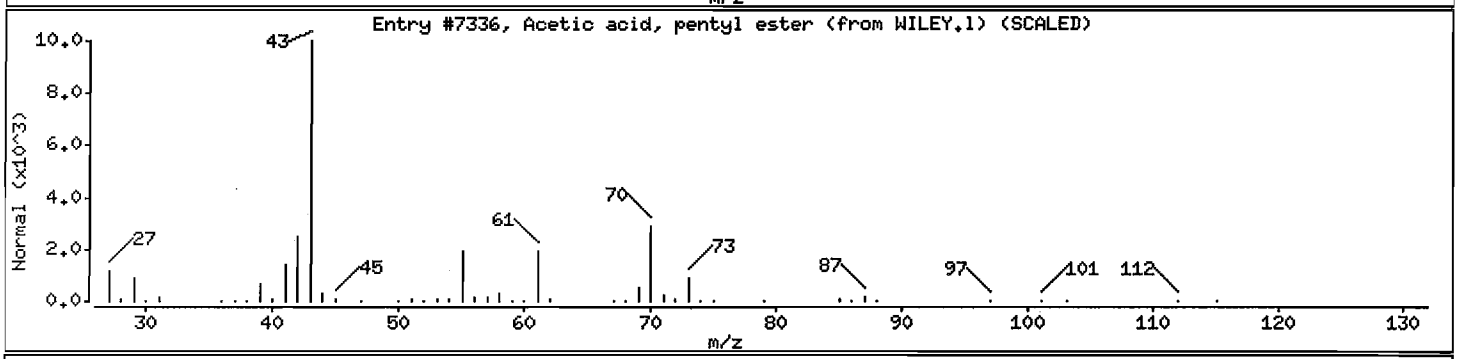
Operator: rsw

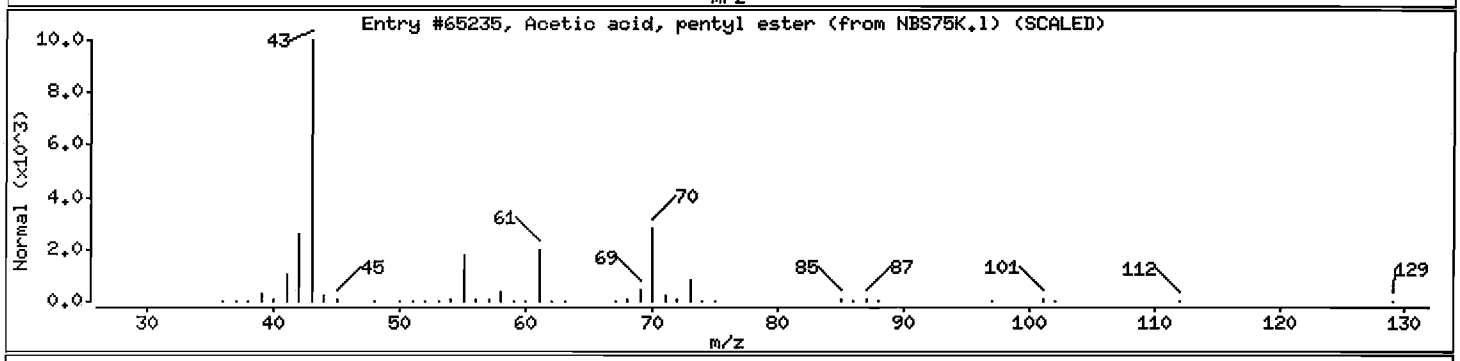
Column phase: DB-624

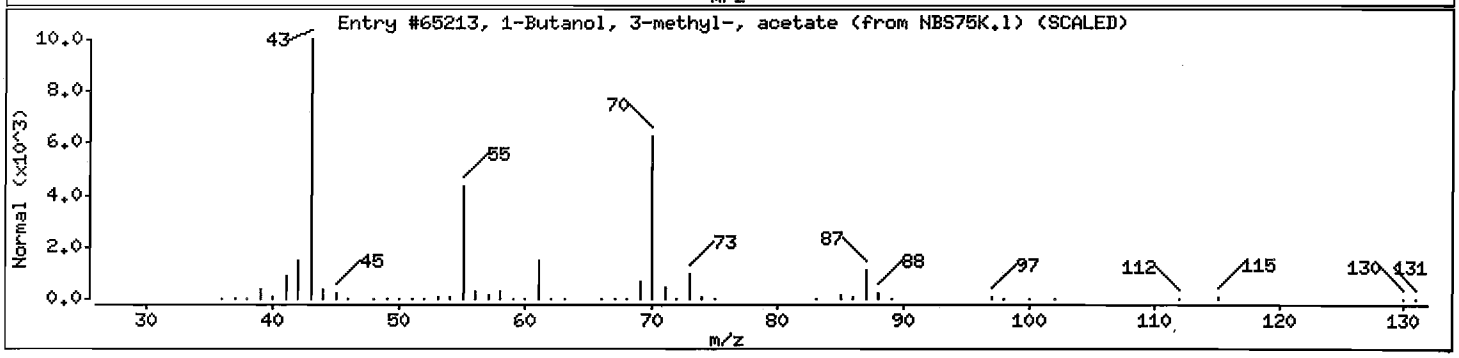
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY.l	7336	90	C7H1402	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65235	83	C7H1402	130
1-Butanol, 3-methyl-, acetate	123-92-2	NBS75K.l	65213	64	C7H1402	130









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\c02lcs.d
Lab Smp Id: 584128 Client Smp ID: lcs
Inj Date : 10-JUN-2011 20:40
Operator : rsw Inst ID: 50MSV1.i
Smp Info : lcs
Misc Info : 33199
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 15-Jun-2011 18:03 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 17:43 Cal File: a08.d
Als bottle: 27 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.922	0.921	(0.224)	35951	58.8880	58.9
2 Chloromethane	50	1.031	1.026	(0.250)	29351	46.7678	46.8
3 Vinyl Chloride	62	1.047	1.047	(0.254)	27987	66.0823	66.1
4 Bromomethane	94	1.193	1.193	(0.290)	12704	51.6605	51.7
5 Chloroethane	64	1.241	1.240	(0.301)	11618	56.4333	56.4
6 Trichlorofluoromethane	101	1.356	1.355	(0.329)	32078	57.0164	57.0
28 1,2-dichlorotrifluoroethane	67	1.476	1.476	(0.358)	23992	56.3937	56.4
7 Diethyl ether	74	1.481	1.481	(0.359)	6598	54.2275	54.2
8 Acrolein	56	1.544	1.544	(0.375)	36774	2156.48	2160(R)
9 1,1-Dichloroethene	96	1.607	1.606	(0.390)	17097	55.0407	55.0
10 1,1,2trichlorotrifluoroethane	101	1.601	1.601	(0.389)	18140	52.2664	52.3
11 Acetone	43	1.622	1.622	(0.394)	10264	289.018	289
12 Iodomethane	142	1.696	1.695	(0.411)	20349	106.341	106
142 Acetonitrile	41	1.795	1.795	(0.435)	36049	1128.19	1130
13 Carbon Disulfide	76	1.743	1.742	(0.423)	136539	150.908	151(R)
138 Methyl Acetate	43	1.795	1.800	(0.435)	7366	74.9792	75.0
14 allyl chloride	41	1.795	1.795	(0.435)	36049	101.310	101(R)
15 Methylene Chloride	84	1.863	1.863	(0.452)	15534	46.7684	46.8
16 Acrylonitrile	53	2.004	2.004	(0.486)	46638	1065.19	1060
27 Propionitrile	54	2.391	2.391	(0.580)	772	37.2367	37.2(Q)
17 tert-Butyl Alcohol	59	1.920	1.920	(0.466)	1702	107.065	107
18 1,2-Dichloroethene (trans)	96	2.030	2.030	(0.493)	17018	53.3800	53.4
19 Methyl-tert-butyl ether	73	2.036	2.035	(0.494)	59298	108.926	109

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	20 n-Hexane	57	2.213	2.213	(0.537)	23443	52.4398	52.4
	146 Chloroprene	53	2.386	2.391	(0.579)	22882	45.0596	45.0
	21 1,1-Dichloroethane	63	2.318	2.318	(0.562)	30554	51.1640	51.2
	23 Vinyl Acetate	43	2.349	2.349	(0.570)	72618	174.118	174
	25 1,2-Dichloroethene (cis)	96	2.794	2.794	(0.678)	24142	55.9292	55.9
	24 2,2-Dichloropropane	77	2.794	2.794	(0.678)	29851	52.7980	52.8
	26 2-Butanone	43	2.810	2.809	(0.682)	22293	250.246	250
	143 Methacrylonitrile	141	1.696	1.695	(0.411)	2317	236.645	237(Q)
	29 Bromochloromethane	49	3.024	3.024	(0.734)	10812	60.2955	60.3
	30 Tetrahydrofuran	42	3.087	3.086	(0.749)	3030	36.6153	36.6
	31 Chloroform	83	3.108	3.107	(0.754)	38273	50.6426	50.6
$	32 Dibromofluoromethane (S)	113	3.280	3.280	(0.796)	15090	51.5420	51.5
	33 1,1,1-Trichloroethane	97	3.306	3.306	(0.802)	31978	52.6524	52.6
	139 Cyclohexane	56	3.374	3.374	(0.819)	34935	54.5458	54.5
	37 Isobutyl alcohol	43	3.369	3.379	(0.817)	3606	54.6116	54.6
	36 1,1-Dichloropropene	75	3.500	3.505	(0.849)	31199	54.4177	54.4
	35 Carbon Tetrachloride	117	3.505	3.505	(0.850)	24211	53.3268	53.3
	144 isopropyl acetate	61	1.052	1.047	(0.255)	2145	59.2106	59.2(Q)
	147 2,2,4-Trimethylpentane	57	3.892	3.892	(0.944)	81656	52.4962	52.5
	38 Benzene	78	3.756	3.756	(0.911)	85756	52.0736	52.1
	39 1,2-Dichloroethane	62	3.777	3.777	(0.916)	20213	51.0723	51.1
*	40 Fluorobenzene	96	4.122	4.122	(1.000)	63910	50.0000	
	41 Trichloroethene	95	4.583	4.582	(1.112)	25534	52.7809	52.8
	140 Methylcyclohexane	55	4.802	4.802	(1.165)	33709	55.2102	55.2
	42 1,2-Dichloropropane	63	4.834	4.839	(1.173)	22822	57.6517	57.6
	43 Dibromomethane	93	4.970	4.969	(1.206)	11087	55.0339	55.0
	44 Methyl methacrylate	69	5.032	5.037	(1.221)	39759	226.188	226
	45 Bromodichloromethane	83	5.174	5.173	(1.255)	27109	56.3887	56.4
	46 2-Chloroethyl vinyl ether	63	5.550	5.555	(0.761)	3212	32.3854	32.4
	47 cis-1,3-Dichloropropene	75	5.686	5.691	(0.779)	32217	49.4486	49.4
	48 4-Methyl-2-Pentanone	43	5.885	5.885	(0.806)	63997	277.909	278
$	49 Toluene-d8	98	5.979	5.979	(0.819)	68066	50.5439	50.5
	50 Toluene	91	6.047	6.052	(0.829)	102503	49.2183	49.2
	51 trans-1,3-Dichloropropene	75	6.309	6.308	(0.865)	24326	47.6186	47.6
	52 Ethyl Methacrylate	69	6.445	6.444	(0.883)	90057	202.178	202
	53 1,1,2-Trichloroethane	83	6.481	6.486	(0.888)	14346	49.4017	49.4
	54 Tetrachloroethene	166	6.612	6.612	(0.906)	30382	47.5929	47.6
	55 1,3-Dichloropropane	76	6.633	6.638	(0.909)	27803	51.2985	51.3
	56 2-Hexanone	43	6.743	6.742	(0.924)	46652	280.184	280
	57 Dibromochloromethane	129	6.832	6.836	(0.936)	17198	52.9655	53.0
	58 1,2-Dibromoethane	107	6.915	6.915	(0.948)	16560	50.9599	51.0
*	59 Chlorobenzene-d5	117	7.297	7.302	(1.000)	57830	50.0000	
	60 Chlorobenzene	112	7.318	7.323	(1.003)	66366	49.9600	50.0
	61 1,1,1,2-Tetrachloroethane	131	7.386	7.391	(1.012)	19839	52.3303	52.3
	62 Ethylbenzene	106	7.412	7.417	(1.016)	37544	56.1283	56.1
	63 m&p-Xylene	106	7.501	7.501	(1.028)	89347	115.678	116
	65 o-Xylene	106	7.773	7.773	(1.065)	47803	50.7483	50.7
	66 Styrene	104	7.783	7.783	(1.067)	75643	60.9793	61.0(R)
	67 Bromoform	173	7.899	7.898	(0.898)	10772	45.6006	45.6
	68 Isopropylbenzene	105	8.019	8.024	(1.099)	124070	48.2294	48.2
	145 n-amyl acetate	70	7.925	7.926	(1.922)	57337		(Q)
	69 trans-1,4-Dichloro-2-butene	53	8.238	8.238	(1.129)	17173	197.763	198(Q)
$	70 4-Bromofluorobenzene	95	8.113	8.113	(1.112)	27543	49.5885	49.6
	72 1,1,2,2-Tetrachloroethane	83	8.207	8.212	(0.933)	22230	48.8951	48.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
71 Bromobenzene	77	8.202	8.202	(1.124)	60143	53.8211	53.8
73 1,2,3-Trichloropropane	75	8.238	8.228	(0.937)	38940	84.2145	84.2(Q)
74 n-Propylbenzene	91	8.275	8.275	(0.941)	151062	51.0455	51.0
75 2-Chlorotoluene	91	8.322	8.322	(0.946)	91032	49.3011	49.3
76 4-Chlorotoluene	126	8.322	8.327	(0.946)	28087	49.9962	50.0
77 1,3,5-Trimethylbenzene	105	8.380	8.385	(0.953)	99651	50.6043	50.6
78 tert-Butylbenzene	119	8.573	8.573	(0.975)	102315	47.0311	47.0
79 1,2,4-Trimethylbenzene	105	8.599	8.599	(0.978)	97288	48.2582	48.2
80 sec-Butylbenzene	105	8.693	8.698	(0.989)	144117	53.6695	53.7
81 1,3-Dichlorobenzene	146	8.756	8.756	(0.996)	53490	44.0707	44.1
83 p-Isopropyltoluene	119	8.777	8.777	(0.998)	105484	48.2893	48.3
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.793	(1.000)	28813	50.0000	
84 1,4-Dichlorobenzene	146	8.809	8.808	(1.002)	52022	44.8066	44.8
86 n-Butylbenzene	91	8.997	8.997	(1.023)	110059	48.1839	48.2
85 1,2-Dichlorobenzene	146	9.007	9.007	(1.024)	48480	46.5711	46.6
88 1,2,4-Trichlorobenzene	180	9.828	9.828	(1.118)	38454	42.3382	42.3
91 1,2,3-Trichlorobenzene	180	10.085	10.084	(1.147)	33674	46.4717	46.5
87 1,2-Dibromo-3-chloropropane	155	9.907	9.907	(1.127)	3927	51.5539	51.6
89 Hexachlorobutadiene	225	9.912	9.907	(1.127)	30979	48.2855	48.3
90 Naphthalene	128	9.959	9.959	(1.133)	61426	47.3431	47.3
92 2,methyl-naphthalene	142	10.582	10.581	(1.203)	39458	48.8949	48.9

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: c02lcs.d
Lab Smp Id: 584128
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info: 33199

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	72523	36262	145046	63910	-11.88
59 Chlorobenzene-d5	63871	31936	127742	57830	-9.46
82 1,4-Dichlorobenze	31277	15639	62554	28813	-7.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.07
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 584128
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-s.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info: 33199

Client SDG: a061011.b
Fraction: VOA
Client Smp ID: lcs
Operator: rsw
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	58.9	117.78	25-200
2	Chloromethane	50.0	46.8	93.54	56-142
3	Vinyl Chloride	50.0	66.1	132.16	69-138
4	Bromomethane	50.0	51.7	103.32	18-190
5	Chloroethane	50.0	56.4	112.87	55-159
6	Trichlorofluoromet	50.0	57.0	114.03	57-151
28	1,2-dichlorotriflu	50.0	56.4	112.79	50-150
7	Diethyl ether	50.0	54.2	108.45	30-170
8	Acrolein	1000	2160	215.65*	10-200
10	1,1,2trichlorotrif	50.0	52.3	104.53	70-130
9	1,1-Dichloroethene	50.0	55.0	110.08	80-137
11	Acetone	250	289	115.61	20-200
12	Iodomethane	100	106	106.34	26-171
13	Carbon Disulfide	100	151	150.91*	68-127
14	allyl chloride	50.0	101	202.62*	70-130
138	Methyl Acetate	100	75.0	74.98	30-191
15	Methylene Chloride	50.0	46.8	93.54	66-128
16	Acrylonitrile	1000	1060	106.52	70-126
19	Methyl-tert-butyl	100	109	108.93	69-125
18	1,2-Dichloroethene	50.0	53.4	106.76	79-134
20	n-Hexane	50.0	52.4	104.88	71-148
21	1,1-Dichloroethane	50.0	51.2	102.33	73-122
23	Vinyl Acetate	200	174	87.06	29-122
24	2,2-Dichloropropan	50.0	52.8	105.60	55-128
25	1,2-Dichloroethene	50.0	55.9	111.86	82-125
26	2-Butanone	250	250	100.10	39-186
29	Bromochloromethane	50.0	60.3	120.59	70-131
30	Tetrahydrofuran	50.0	36.6	73.23	25-200
31	Chloroform	50.0	50.6	101.29	74-118
$ 32	Dibromofluorometha	50.0	51.5	103.08	71-125
33	1,1,1-Trichloroeth	50.0	52.6	105.30	73-123
37	Isobutyl alcohol	50.0	54.6	109.22	25-200
139	Cyclohexane	50.0	54.5	109.09	63-127
36	1,1-Dichloropropen	50.0	54.4	108.84	77-121
35	Carbon Tetrachlori	50.0	53.3	106.65	65-127
38	Benzene	50.0	52.1	104.15	77-123
39	1,2-Dichloroethane	50.0	51.1	102.14	72-125
41	Trichloroethene	50.0	52.8	105.56	79-119
140	Methylcyclohexane	50.0	55.2	110.42	71-123
42	1,2-Dichloropropan	50.0	57.6	115.30	76-121

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
43 Dibromomethane	50.0	55.0	110.07	76-121
44 Methyl methacrylat	200	226	113.09	25-200
45 Bromodichlorometha	50.0	56.4	112.78	74-120
46 2-Chloroethyl viny	50.0	32.4	64.77	50-150
47 cis-1,3-Dichloropr	50.0	49.4	98.90	67-118
48 4-Methyl-2-Pentano	250	278	111.16	67-124
$ 49 Toluene-d8	50.0	50.5	101.09	76-124
50 Toluene	50.0	49.2	98.44	74-121
51 trans-1,3-Dichloro	50.0	47.6	95.24	59-113
52 Ethyl Methacrylate	200	202	101.09	70-122
53 1,1,2-Trichloroeth	50.0	49.4	98.80	78-124
54 Tetrachloroethene	50.0	47.6	95.19	69-112
55 1,3-Dichloropropan	50.0	51.3	102.60	78-121
56 2-Hexanone	250	280	112.07	53-168
57 Dibromochlorometha	50.0	53.0	105.93	70-123
58 1,2-Dibromoethane	50.0	51.0	101.92	79-119
60 Chlorobenzene	50.0	50.0	99.92	80-116
61 1,1,1,2-Tetrachlor	50.0	52.3	104.66	70-118
62 Ethylbenzene	50.0	56.1	112.26	77-120
63 m&p-Xylene	100	116	115.68	75-122
65 o-Xylene	50.0	50.7	101.50	75-122
66 Styrene	50.0	61.0	121.96*	76-120
67 Bromoform	50.0	45.6	91.20	65-116
68 Isopropylbenzene	50.0	48.2	96.46	75-118
$ 70 4-Bromofluorobenze	50.0	49.6	99.18	67-134
71 Bromobenzene	50.0	53.8	107.64	73-120
72 1,1,2,2-Tetrachlor	50.0	48.9	97.79	71-127
73 1,2,3-Trichloropro	100	84.2	84.21	47-117
69 trans-1,4-Dichloro	200	198	98.88	51-118
74 n-Propylbenzene	50.0	51.0	102.09	74-124
75 2-Chlorotoluene	50.0	49.3	98.60	76-122
76 4-Chlorotoluene	50.0	50.0	99.99	73-121
77 1,3,5-Trimethylben	50.0	50.6	101.21	70-122
78 tert-Butylbenzene	50.0	47.0	94.06	46-117
79 1,2,4-Trimethylben	50.0	48.2	96.52	70-122
80 sec-Butylbenzene	50.0	53.7	107.34	70-126
81 1,3-Dichlorobenzen	50.0	44.1	88.14	78-120
83 p-Isopropyltoluene	50.0	48.3	96.58	71-123
84 1,4-Dichlorobenzen	50.0	44.8	89.61	77-117
86 n-Butylbenzene	50.0	48.2	96.37	68-126
85 1,2-Dichlorobenzen	50.0	46.6	93.14	76-120
87 1,2-Dibromo-3-chlo	50.0	51.6	103.11	56-139
88 1,2,4-Trichloroben	50.0	42.3	84.68	64-121
89 Hexachlorobutadien	50.0	48.3	96.57	64-127
90 Naphthalene	50.0	47.3	94.69	68-129
91 1,2,3-Trichloroben	50.0	46.5	92.94	67-125
92 2,methyl-naphthale	50.0	48.9	97.79	25-200

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.5	103.08	80-123

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	50.5	101.09	80-116
$ 70 4-Bromofluorobenze	50.0	49.6	99.18	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584128
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33199

Client SDG: a061011.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	58.9	
74-87-3	Chloromethane	46.8	
75-01-4	Vinyl Chloride	66.1	
74-83-9	Bromomethane	51.7	
75-00-3	Chloroethane	56.4	
75-69-4	Trichlorofluoromethane	57.0	
354-23-4	1,2-dichlorotrifluoroethane	56.4	
60-29-7	Diethyl ether	54.2	
107-02-8	Acrolein	2160	
75-35-4	1,1-Dichloroethene	55.0	
76-13-1	1,1,2trichlorotrifluoroethan	52.3	
67-64-1	Acetone	289	
	Iodomethane	106	
75-05-8	Acetonitrile	1130	
75-15-0	Carbon Disulfide	151	
79-20-9	Methyl Acetate	75.0	
107-05-1	allyl chloride	101	
75-09-2	Methylene Chloride	46.8	
107-13-1	Acrylonitrile	1060	
107-12-0	Propionitrile	37.2	
75-65-0	tert-Butyl Alcohol	107	
156-60-5	1,2-Dichloroethene (trans)	53.4	
1634-04-4	Methyl-tert-butyl ether	109	
	n-Hexane	52.4	
126-99-8	Chloroprene	45.0	
75-34-3	1,1-Dichloroethane	51.2	
108-05-4	Vinyl Acetate	174	
156-59-2	1,2-Dichloroethene (cis)	55.9	
594-20-7	2,2-Dichloropropane	52.8	
78-93-3	2-Butanone	250	
126-98-7	Methacrylonitrile	237	
74-97-5	Bromochloromethane	60.3	
	Tetrahydrofuran	36.6	
67-66-3	Chloroform	50.6	
71-55-6	1,1,1-Trichloroethane	52.6	
110-82-7	Cyclohexane	54.5	
78-83-1	Isobutyl alcohol	54.6	
563-58-6	1,1-Dichloropropene	54.4	
56-23-5	Carbon Tetrachloride	53.3	
108-21-4	isopropyl acetate	59.2	
540-84-1	2,2,4-Trimethylpentane	52.5	
71-43-2	Benzene	52.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584128
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33199

Client SDG: a061011.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	51.1	
79-01-6	Trichloroethene	52.8	
108-87-2	Methylcyclohexane	55.2	
78-87-5	1,2-Dichloropropane	57.6	
74-95-3	Dibromomethane	55.0	
80-62-6	Methyl methacrylate	226	
75-27-4	Bromodichloromethane	56.4	
110-75-8	2-Chloroethyl vinyl ether	32.4	
10061-01-5	cis-1,3-Dichloropropene	49.4	
108-10-1	4-Methyl-2-Pentanone	278	
108-88-3	Toluene	49.2	
10061-02-6	trans-1,3-Dichloropropene	47.6	
	Ethyl Methacrylate	202	
79-00-5	1,1,2-Trichloroethane	49.4	
127-18-4	Tetrachloroethene	47.6	
142-28-9	1,3-Dichloropropane	51.3	
591-78-6	2-Hexanone	280	
124-48-1	Dibromochloromethane	53.0	
106-93-4	1,2-Dibromoethane	51.0	
108-90-7	Chlorobenzene	50.0	
630-20-6	1,1,1,2-Tetrachloroethane	52.3	
100-41-4	Ethylbenzene	56.1	
7816-60-0	m&p-Xylene	116	
95-47-6	o-Xylene	50.7	
100-42-5	Styrene	61.0	
75-25-2	Bromoform	45.6	
98-82-8	Isopropylbenzene	48.2	
628-63-7	n-amyl acetate	0.000	
	trans-1,4-Dichloro-2-butene	198	
79-34-5	1,1,2,2-Tetrachloroethane	48.9	
108-86-1	Bromobenzene	53.8	
96-18-4	1,2,3-Trichloropropane	84.2	
103-65-1	n-Propylbenzene	51.0	
95-49-8	2-Chlorotoluene	49.3	
106-43-4	4-Chlorotoluene	50.0	
108-67-8	1,3,5-Trimethylbenzene	50.6	
98-06-6	tert-Butylbenzene	47.0	
95-63-6	1,2,4-Trimethylbenzene	48.2	
135-98-8	sec-Butylbenzene	53.7	
541-73-1	1,3-Dichlorobenzene	44.1	
99-87-6	p-Isopropyltoluene	48.3	
106-46-7	1,4-Dichlorobenzene	44.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584128
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33199

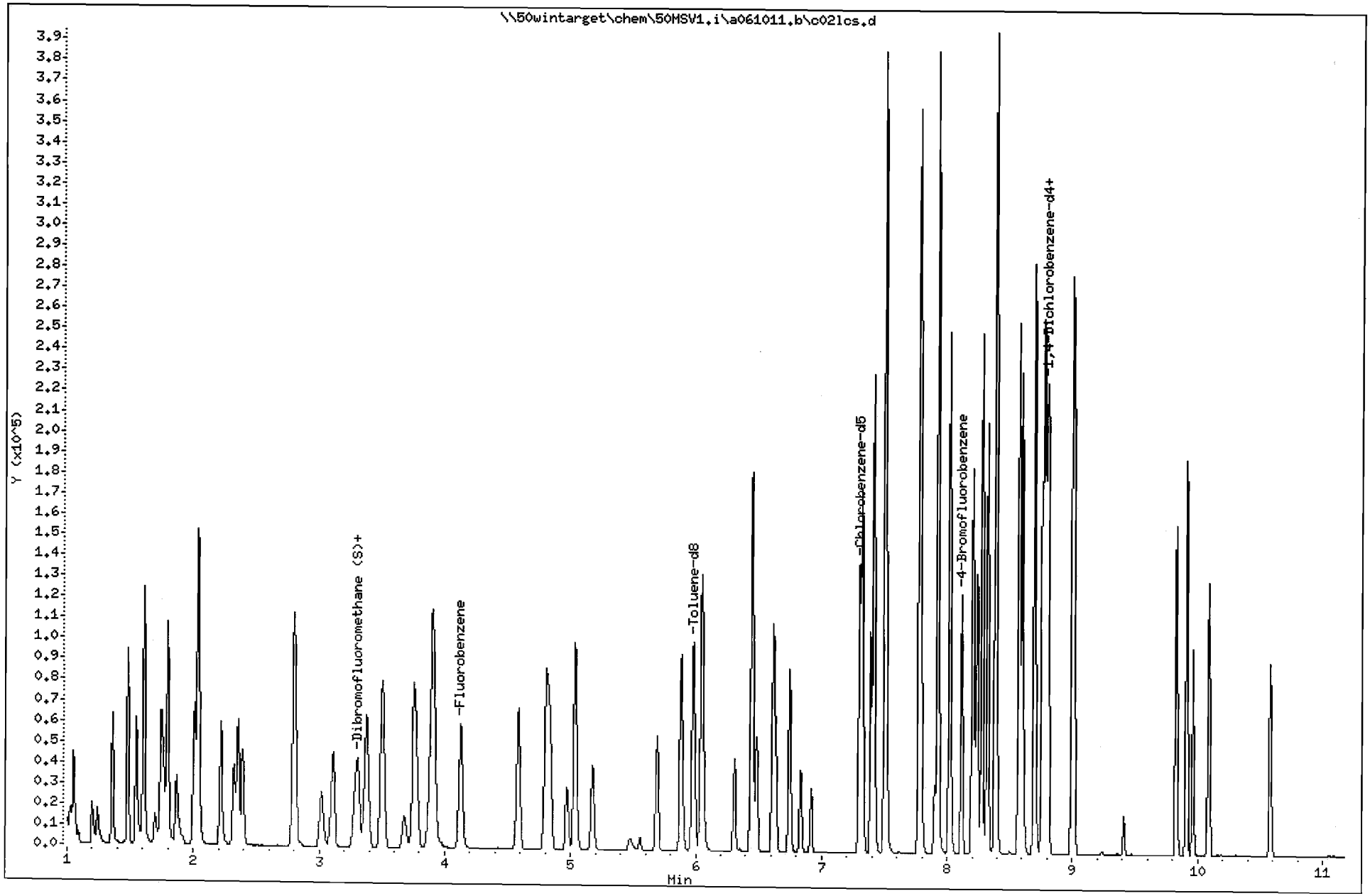
Client SDG: a061011.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	48.2	
95-50-1	1,2-Dichlorobenzene	46.6	
120-82-1	1,2,4-Trichlorobenzene	42.3	
87-61-6	1,2,3-Trichlorobenzene	46.5	
96-12-8	1,2-Dibromo-3-chloropropane	51.6	
87-68-3	Hexachlorobutadiene	48.3	
91-20-3	Naphthalene	47.3	
	2,methyl-naphthalene	48.9	
1868-53-7	Dibromofluoromethane (S)	51.5	
2037-26-5	Toluene-d8	50.5	
460-00-4	4-Bromofluorobenzene	49.6	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\c02lcs.d
Date : 10-JUN-2011 20:40
Client ID: lcs
Sample Info: lcs
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d02lcs.d
Lab Smp Id: 584134 Client Smp ID: lcs
Inj Date : 10-JUN-2011 20:57
Operator : rsw Inst ID: 50MSV1.i
Smp Info : lcs
Misc Info : 33201
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 28 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.915	0.917	(0.222)	37187	50.6711	50.7
2 Chloromethane	50	1.010	1.017	(0.245)	28673	43.7255	43.7
3 Vinyl Chloride	62	1.046	1.043	(0.254)	27276	44.4493	44.4
4 Bromomethane	94	1.193	1.189	(0.289)	14516	43.5663	43.6
5 Chloroethane	64	1.235	1.231	(0.300)	12296	44.5883	44.6
6 Trichlorofluoromethane	101	1.350	1.352	(0.328)	33552	47.9462	47.9
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	24768	45.6851	45.7
7 Diethyl ether	74	1.480	1.477	(0.359)	6537	46.8493	46.8
8 Acrolein	56	1.543	1.540	(0.374)	36229	1589.33	1590
9 1,1-Dichloroethene	96	1.601	1.603	(0.388)	17010	41.7525	41.8
10 1,1,2trichlorotrifluoroethane	101	1.595	1.597	(0.387)	17919	39.0756	39.1
11 Acetone	43	1.616	1.613	(0.392)	10194	222.453	222
12 Iodomethane	142	1.690	1.686	(0.410)	31105	84.0101	84.0
142 Acetonitrile	41	1.789	1.786	(0.434)	36684	717.695	718
13 Carbon Disulfide	76	1.731	1.733	(0.420)	135564	111.645	112
138 Methyl Acetate	43	1.794	1.791	(0.435)	6875	60.6229	60.6
14 allyl chloride	41	1.789	1.786	(0.434)	36829	72.0611	72.1(QRM)
15 Methylene Chloride	84	1.857	1.854	(0.451)	15660	43.2633	43.3
16 Acrylonitrile	53	1.998	1.995	(0.485)	46368	845.303	845
17 tert-Butyl Alcohol	59	1.914	1.911	(0.465)	1636	99.7507	99.8
18 1,2-Dichloroethene (trans)	96	2.030	2.026	(0.492)	17272	43.0225	43.0
19 Methyl-tert-butyl ether	73	2.030	2.026	(0.492)	60568	84.4456	84.4
20 n-Hexane	57	2.207	2.209	(0.536)	23334	37.9102	37.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	146 Chloroprene	53	2.385	2.382	(0.579)	24022	30.6527	30.6
	21 1,1-Dichloroethane	63	2.312	2.309	(0.561)	38223	40.5405	40.5
	23 Vinyl Acetate	43	2.343	2.340	(0.569)	82823	144.060	144
	25 1,2-Dichloroethene (cis)	96	2.788	2.790	(0.676)	24095	44.0678	44.1
	24 2,2-Dichloropropane	77	2.788	2.790	(0.676)	30835	45.1165	45.1
	26 2-Butanone	43	2.804	2.800	(0.680)	21298	210.451	210
	143 Methacrylonitrile	41	3.002	2.999	(0.728)	6221	218.311	218
	29 Bromochloromethane	49	3.018	3.015	(0.732)	13676	49.7714	49.8
	30 Tetrahydrofuran	42	3.086	3.083	(0.749)	3017	28.4115	28.4
	31 Chloroform	83	3.102	3.098	(0.753)	39059	40.8392	40.8
$	32 Dibromofluoromethane (S)	113	3.274	3.271	(0.794)	15937	49.6712	49.7
	33 1,1,1-Trichloroethane	97	3.300	3.297	(0.801)	34476	43.1737	43.2
	139 Cyclohexane	56	3.368	3.370	(0.817)	37354	44.3191	44.3
	37 Isobutyl alcohol	43	3.902	3.883	(0.947)	114332	346.533	346 (QR)
	36 1,1-Dichloropropene	75	3.494	3.496	(0.848)	32461	42.3459	42.3
	35 Carbon Tetrachloride	117	3.499	3.496	(0.849)	25094	46.1588	46.2
	144 isopropyl acetate	61	1.046	1.043	(0.254)	1865	43.7685	43.8 (Q)
	147 2,2,4-Trimethylpentane	57	3.886	3.883	(0.943)	85048	43.0435	43.0
	38 Benzene	78	3.755	3.752	(0.911)	88860	42.6507	42.6
	39 1,2-Dichloroethane	62	3.776	3.768	(0.916)	20119	40.0679	40.1
*	40 Fluorobenzene	96	4.122	4.118	(1.000)	71400	50.0000	
	41 Trichloroethene	95	4.577	4.579	(1.110)	25810	42.0290	42.0
	140 Methylcyclohexane	55	4.801	4.798	(1.165)	34126	43.6442	43.6
	42 1,2-Dichloropropane	63	4.838	4.830	(1.174)	22343	44.4191	44.4
	43 Dibromomethane	93	4.969	4.966	(1.206)	10529	42.1931	42.2
	141 1,4-Dioxane	88	5.026	5.028	(1.220)	2241		(Q)
	44 Methyl methacrylate	69	5.032	5.028	(1.221)	35885	162.725	163
	45 Bromodichloromethane	83	5.173	5.170	(1.255)	26751	41.7106	41.7
	46 2-Chloroethyl vinyl ether	63	5.549	5.551	(0.760)	3665	32.2744	32.3
	47 cis-1,3-Dichloropropene	75	5.691	5.687	(0.779)	30264	40.2398	40.2
	48 4-Methyl-2-Pentanone	43	5.879	5.876	(0.805)	61091	218.630	219
$	49 Toluene-d8	98	5.973	5.975	(0.818)	69688	48.2340	48.2
	50 Toluene	91	6.046	6.043	(0.828)	99879	43.1207	43.1
	51 trans-1,3-Dichloropropene	75	6.308	6.305	(0.864)	24903	41.2489	41.2
	52 Ethyl Methacrylate	69	6.444	6.441	(0.883)	83719	184.876	185
	53 1,1,2-Trichloroethane	83	6.480	6.482	(0.888)	14124	41.0489	41.0
	54 Tetrachloroethene	166	6.611	6.608	(0.905)	29423	39.7909	39.8
	55 1,3-Dichloropropane	76	6.637	6.634	(0.909)	26699	46.3815	46.4
	56 2-Hexanone	43	6.742	6.739	(0.923)	45070	218.644	219
	57 Dibromochloromethane	129	6.831	6.833	(0.936)	16917	42.7626	42.8
	58 1,2-Dibromoethane	107	6.914	6.911	(0.947)	16427	47.4030	47.4
*	59 Chlorobenzene-d5	117	7.301	7.298	(1.000)	62498	50.0000	
	60 Chlorobenzene	112	7.317	7.319	(1.002)	68774	44.2120	44.2
	61 1,1,1,2-Tetrachloroethane	131	7.390	7.387	(1.012)	19517	43.2014	43.2
	62 Ethylbenzene	106	7.411	7.413	(1.015)	37303	43.9290	43.9
	63 m&p-Xylene	106	7.500	7.502	(1.027)	91285	93.2356	93.2
	65 o-Xylene	106	7.772	7.774	(1.064)	44471	41.0194	41.0
	66 Styrene	104	7.783	7.785	(1.066)	71433	42.7964	42.8
	67 Bromoform	173	7.898	7.900	(0.898)	10127	41.3125	41.3
	68 Isopropylbenzene	105	8.018	8.020	(1.098)	121934	42.0536	42.0
	69 trans-1,4-Dichloro-2-butene	53	8.243	8.240	(1.129)	14754	161.446	161 (Q)
$	70 4-Bromofluorobenzene	95	8.112	8.114	(1.111)	27750	46.6638	46.7
	145 n-amyl acetate	70	7.924	7.926	(1.922)	55971		(Q)
	72 1,1,2,2-Tetrachloroethane	83	8.212	8.208	(0.934)	21200	45.9290	45.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
71 Bromobenzene	77	8.201	8.198	(1.123)	57853	52.3630	52.4
73 1,2,3-Trichloropropane	75	8.238	8.229	(0.937)	35924	78.0054	78.0(Q)
74 n-Propylbenzene	91	8.274	8.276	(0.941)	147791	40.9272	40.9
75 2-Chlorotoluene	91	8.321	8.323	(0.946)	88854	42.7740	42.8
76 4-Chlorotoluene	126	8.321	8.323	(0.946)	27953	41.1891	41.2
77 1,3,5-Trimethylbenzene	105	8.379	8.381	(0.953)	101299	43.8970	43.9
78 tert-Butylbenzene	119	8.572	8.569	(0.975)	94756	36.2393	36.2
79 1,2,4-Trimethylbenzene	105	8.599	8.595	(0.978)	94850	41.0322	41.0
80 sec-Butylbenzene	105	8.693	8.695	(0.989)	141993	47.8948	47.9
81 1,3-Dichlorobenzene	146	8.755	8.757	(0.996)	55635	45.2478	45.2
83 p-Isopropyltoluene	119	8.776	8.773	(0.998)	107420	43.3719	43.4
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.794	(1.000)	30196	50.0000	
84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	52093	44.7997	44.8
86 n-Butylbenzene	91	8.996	8.993	(1.023)	114475	41.3842	41.4
85 1,2-Dichlorobenzene	146	9.007	9.008	(1.024)	49364	41.9694	42.0
88 1,2,4-Trichlorobenzene	180	9.828	9.830	(1.118)	37854	39.2208	39.2
91 1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	32387	42.1347	42.1
87 1,2-Dibromo-3-chloropropane	155	9.409	9.411	(1.070)	2777	42.9147	42.9
89 Hexachlorobutadiene	225	9.911	9.908	(1.127)	31847	45.5657	45.6
90 Naphthalene	128	9.958	9.960	(1.133)	60075	45.0745	45.1
92 2,methyl-naphthalene	142	10.581	10.583	(1.203)	34168	41.9601	42.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d02lcs.d
Lab Smp Id: 584134
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33201

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	71400	6.13
59 Chlorobenzene-d5	58912	29456	117824	62498	6.09
82 1,4-Dichlorobenze	28356	14178	56712	30196	6.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.08
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.04
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.02

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 584134
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-s.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33201

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: lcs
Operator: rsw
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	50.7	101.34	25-200
2	Chloromethane	50.0	43.7	87.45	56-142
3	Vinyl Chloride	50.0	44.4	88.90	69-138
4	Bromomethane	50.0	43.6	87.13	18-190
5	Chloroethane	50.0	44.6	89.18	55-159
6	Trichlorofluoromet	50.0	47.9	95.89	57-151
28	1,2-dichlorotriflu	50.0	45.7	91.37	50-150
7	Diethyl ether	50.0	46.8	93.70	30-170
8	Acrolein	1000	1590	158.93	10-200
10	1,1,2trichlorotrif	50.0	39.1	78.15	70-130
9	1,1-Dichloroethene	50.0	41.8	83.51	80-137
11	Acetone	250	222	88.98	10-200
12	Iodomethane	100	84.0	84.01	26-171
13	Carbon Disulfide	100	112	111.64	68-127
14	allyl chloride	50.0	72.1	144.12*	70-130
138	Methyl Acetate	100	60.6	60.62	30-191
15	Methylene Chloride	50.0	43.3	86.53	66-128
16	Acrylonitrile	1000	845	84.53	70-126
19	Methyl-tert-butyl	100	84.4	84.45	69-125
18	1,2-Dichloroethene	50.0	43.0	86.05	79-134
20	n-Hexane	50.0	37.9	75.82	71-148
21	1,1-Dichloroethane	50.0	40.5	81.08	73-122
23	Vinyl Acetate	200	144	72.03	29-122
24	2,2-Dichloropropan	50.0	45.1	90.23	55-128
25	1,2-Dichloroethene	50.0	44.1	88.14	82-125
26	2-Butanone	250	210	84.18	39-186
29	Bromochloromethane	50.0	49.8	99.54	70-131
30	Tetrahydrofuran	50.0	28.4	56.82	25-200
31	Chloroform	50.0	40.8	81.68	74-118
33	1,1,1-Trichloroeth	50.0	43.2	86.35	73-123
37	Isobutyl alcohol	50.0	346	693.07*	25-200
139	Cyclohexane	50.0	44.3	88.64	63-127
36	1,1-Dichloropropen	50.0	42.3	84.69	77-121
35	Carbon Tetrachlori	50.0	46.2	92.32	65-127
38	Benzene	50.0	42.6	85.30	77-123
39	1,2-Dichloroethane	50.0	40.1	80.14	72-125
41	Trichloroethene	50.0	42.0	84.06	79-119
140	Methylcyclohexane	50.0	43.6	87.29	71-123
42	1,2-Dichloropropan	50.0	44.4	88.84	76-121
43	Dibromomethane	50.0	42.2	84.39	76-121

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
44 Methyl methacrylat	200	163	81.36	25-200
45 Bromodichlorometha	50.0	41.7	83.42	74-120
46 2-Chloroethyl viny	50.0	32.3	64.55	50-150
47 cis-1,3-Dichloropr	50.0	40.2	80.48	67-118
48 4-Methyl-2-Pentano	250	219	87.45	67-124
50 Toluene	50.0	43.1	86.24	74-121
51 trans-1,3-Dichloro	50.0	41.2	82.50	59-113
52 Ethyl Methacrylate	200	185	92.44	70-122
53 1,1,2-Trichloroeth	50.0	41.0	82.10	78-124
54 Tetrachloroethene	50.0	39.8	79.58	69-112
55 1,3-Dichloropropan	50.0	46.4	92.76	78-121
56 2-Hexanone	250	219	87.46	53-168
57 Dibromochlorometha	50.0	42.8	85.53	70-123
58 1,2-Dibromoethane	50.0	47.4	94.81	79-119
60 Chlorobenzene	50.0	44.2	88.42	80-116
61 1,1,1,2-Tetrachlor	50.0	43.2	86.40	70-118
62 Ethylbenzene	50.0	43.9	87.86	77-120
63 m&p-Xylene	100	93.2	93.24	75-122
65 o-Xylene	50.0	41.0	82.04	75-122
66 Styrene	50.0	42.8	85.59	76-120
67 Bromoform	50.0	41.3	82.62	65-116
68 Isopropylbenzene	50.0	42.0	84.11	75-118
71 Bromobenzene	50.0	52.4	104.73	73-120
72 1,1,2,2-Tetrachlor	50.0	45.9	91.86	71-127
73 1,2,3-Trichloropro	100	78.0	78.01	47-117
69 trans-1,4-Dichloro	200	161	80.72	51-118
74 n-Propylbenzene	50.0	40.9	81.85	74-124
75 2-Chlorotoluene	50.0	42.8	85.55	76-122
76 4-Chlorotoluene	50.0	41.2	82.38	73-121
77 1,3,5-Trimethylben	50.0	43.9	87.79	70-122
78 tert-Butylbenzene	50.0	36.2	72.48	46-117
79 1,2,4-Trimethylben	50.0	41.0	82.06	70-122
80 sec-Butylbenzene	50.0	47.9	95.79	70-126
81 1,3-Dichlorobenzen	50.0	45.2	90.50	78-120
83 p-Isopropyltoluene	50.0	43.4	86.74	71-123
84 1,4-Dichlorobenzen	50.0	44.8	89.60	77-117
86 n-Butylbenzene	50.0	41.4	82.77	68-126
85 1,2-Dichlorobenzen	50.0	42.0	83.94	76-120
87 1,2-Dibromo-3-chlo	50.0	42.9	85.83	56-139
88 1,2,4-Trichloroben	50.0	39.2	78.44	64-121
89 Hexachlorobutadien	50.0	45.6	91.13	64-127
90 Naphthalene	50.0	45.1	90.15	68-129
91 1,2,3-Trichloroben	50.0	42.1	84.27	67-125
92 2,methyl-naphthale	50.0	42.0	83.92	25-200

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.7	99.34	82-122
$ 49 Toluene-d8	50.0	48.2	96.47	80-120
$ 70 4-Bromofluorobenze	50.0	46.7	93.33	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584134
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33201

Client SDG: b061011.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	50.7	
74-87-3	Chloromethane	43.7	
75-01-4	Vinyl Chloride	44.4	
74-83-9	Bromomethane	43.6	
75-00-3	Chloroethane	44.6	
75-69-4	Trichlorofluoromethane	47.9	
354-23-4	1,2-dichlorotrifluoroethane	45.7	
60-29-7	Diethyl ether	46.8	
107-02-8	Acrolein	1590	
75-35-4	1,1-Dichloroethene	41.8	
76-13-1	1,1,2trichlorotrifluoroethan	39.1	
67-64-1	Acetone	222	
	Iodomethane	84.0	
75-05-8	Acetonitrile	718	
75-15-0	Carbon Disulfide	112	
79-20-9	Methyl Acetate	60.6	
107-05-1	allyl chloride	72.1	
75-09-2	Methylene Chloride	43.3	
107-13-1	Acrylonitrile	845	
75-65-0	tert-Butyl Alcohol	99.8	
156-60-5	1,2-Dichloroethene (trans)	43.0	
1634-04-4	Methyl-tert-butyl ether	84.4	
	n-Hexane	37.9	
126-99-8	Chloroprene	30.6	
75-34-3	1,1-Dichloroethane	40.5	
108-05-4	Vinyl Acetate	144	
156-59-2	1,2-Dichloroethene (cis)	44.1	
594-20-7	2,2-Dichloropropane	45.1	
78-93-3	2-Butanone	210	
126-98-7	Methacrylonitrile	218	
74-97-5	Bromochloromethane	49.8	
	Tetrahydrofuran	28.4	
67-66-3	Chloroform	40.8	
71-55-6	1,1,1-Trichloroethane	43.2	
110-82-7	Cyclohexane	44.3	
78-83-1	Isobutyl alcohol	346	
563-58-6	1,1-Dichloropropene	42.3	
56-23-5	Carbon Tetrachloride	46.2	
108-21-4	isopropyl acetate	43.8	
540-84-1	2,2,4-Trimethylpentane	43.0	
71-43-2	Benzene	42.6	
107-06-2	1,2-Dichloroethane	40.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584134
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33201

Client SDG: b061011.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	42.0	
108-87-2	Methylcyclohexane	43.6	
78-87-5	1,2-Dichloropropane	44.4	
74-95-3	Dibromomethane	42.2	
	1,4-Dioxane	0.000	
80-62-6	Methyl methacrylate	163	
75-27-4	Bromodichloromethane	41.7	
110-75-8	2-Chloroethyl vinyl ether	32.3	
10061-01-5	cis-1,3-Dichloropropene	40.2	
108-10-1	4-Methyl-2-Pentanone	219	
108-88-3	Toluene	43.1	
10061-02-6	trans-1,3-Dichloropropene	41.2	
	Ethyl Methacrylate	185	
79-00-5	1,1,2-Trichloroethane	41.0	
127-18-4	Tetrachloroethene	39.8	
142-28-9	1,3-Dichloropropane	46.4	
591-78-6	2-Hexanone	219	
124-48-1	Dibromochloromethane	42.8	
106-93-4	1,2-Dibromoethane	47.4	
108-90-7	Chlorobenzene	44.2	
630-20-6	1,1,1,2-Tetrachloroethane	43.2	
100-41-4	Ethylbenzene	43.9	
7816-60-0	m&p-Xylene	93.2	
95-47-6	o-Xylene	41.0	
100-42-5	Styrene	42.8	
75-25-2	Bromoform	41.3	
98-82-8	Isopropylbenzene	42.0	
	trans-1,4-Dichloro-2-butene	161	
628-63-7	n-amyl acetate	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	45.9	
108-86-1	Bromobenzene	52.4	
96-18-4	1,2,3-Trichloropropane	78.0	
103-65-1	n-Propylbenzene	40.9	
95-49-8	2-Chlorotoluene	42.8	
106-43-4	4-Chlorotoluene	41.2	
108-67-8	1,3,5-Trimethylbenzene	43.9	
98-06-6	tert-Butylbenzene	36.2	
95-63-6	1,2,4-Trimethylbenzene	41.0	
135-98-8	sec-Butylbenzene	47.9	
541-73-1	1,3-Dichlorobenzene	45.2	
99-87-6	p-Isopropyltoluene	43.4	
106-46-7	1,4-Dichlorobenzene	44.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

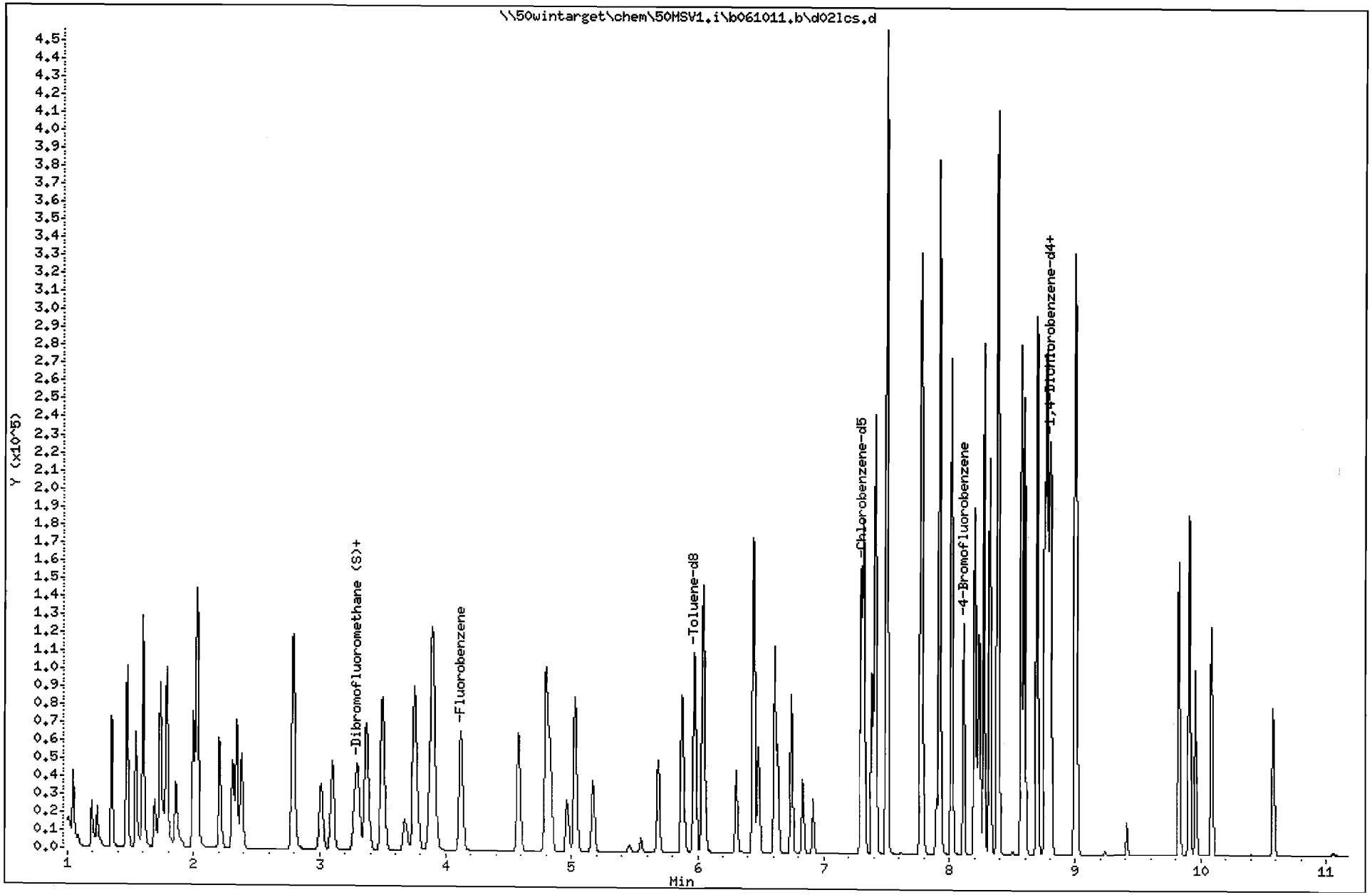
Client Name:
Lab Smp Id: 584134
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33201

Client SDG: b061011.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	41.4	
95-50-1	1,2-Dichlorobenzene	42.0	
120-82-1	1,2,4-Trichlorobenzene	39.2	
87-61-6	1,2,3-Trichlorobenzene	42.1	
96-12-8	1,2-Dibromo-3-chloropropane	42.9	
87-68-3	Hexachlorobutadiene	45.6	
91-20-3	Naphthalene	45.1	
	2,methyl-naphthalene	42.0	
1868-53-7	Dibromofluoromethane (S)	49.7	
2037-26-5	Toluene-d8	48.2	
460-00-4	4-Bromofluorobenzene	46.7	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d02lcs.d
Date : 10-JUN-2011 20:57
Client ID: lcs
Sample Info: lcs
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d02lcs.d

Date : 10-JUN-2011 20:57

Client ID: lcs

Instrument: 50MSV1.i

Sample Info: lcs

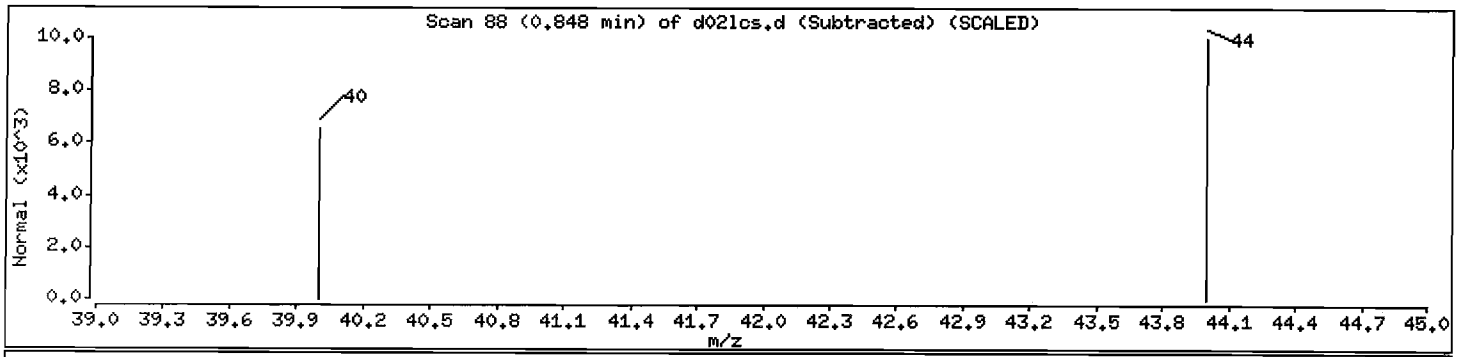
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d05.d
Lab Smp Id: 584131 Client Smp ID: ms5049277002
Inj Date : 10-JUN-2011 22:39
Operator : rsw Inst ID: 50MSV1.i
Smp Info : ms5049277002
Misc Info : 33200
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 34 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.915	0.917	(0.222)	37239	56.3835	56.4
2 Chloromethane	50	0.999	1.017	(0.242)	29266	49.5918	49.6
3 Vinyl Chloride	62	1.046	1.043	(0.254)	28082	50.2539	50.2
4 Bromomethane	94	1.192	1.189	(0.289)	13440	44.6461	44.6
5 Chloroethane	64	1.234	1.231	(0.300)	12659	50.5462	50.5
6 Trichlorofluoromethane	101	1.349	1.352	(0.327)	33065	52.5035	52.5
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	25276	51.9889	52.0
7 Diethyl ether	74	1.480	1.477	(0.359)	6468	52.0635	52.1
8 Acrolein	56	1.543	1.540	(0.374)	24229	1193.01	1190
9 1,1-Dichloroethene	96	1.600	1.603	(0.388)	18127	49.6856	49.7
10 1,1,2trichlorotrifluoroethane	101	1.595	1.597	(0.387)	19102	46.2866	46.3
11 Acetone	43	1.616	1.613	(0.392)	9172	222.399	222
12 Iodomethane	142	1.689	1.686	(0.410)	30206	90.2376	90.2
142 Acetonitrile	41	1.789	1.786	(0.434)	38080	832.417	832
13 Carbon Disulfide	76	1.731	1.733	(0.420)	115820	105.727	106
138 Methyl Acetate	43	1.794	1.791	(0.435)	5772	55.9618	56.0
14 allyl chloride	41	1.789	1.786	(0.434)	38080	83.2370	83.2
15 Methylene Chloride	84	1.857	1.854	(0.451)	15289	47.0699	47.1
16 Acrylonitrile	53	1.998	1.995	(0.485)	43651	884.802	885
17 tert-Butyl Alcohol	59	1.909	1.911	(0.463)	1113	75.4071	75.4(Q)
18 1,2-Dichloroethene (trans)	96	2.029	2.026	(0.492)	17780	49.3651	49.4
19 Methyl-tert-butyl ether	73	2.029	2.026	(0.492)	57039	88.4948	88.5
20 n-Hexane	57	2.207	2.209	(0.536)	26928	48.8956	48.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	146 Chloroprene	53	2.385	2.382	(0.579)	22884	32.4869	32.5
	21 1,1-Dichloroethane	63	2.312	2.309	(0.561)	36348	42.8030	42.8
	23 Vinyl Acetate	43	2.343	2.340	(0.569)	67015	129.484	129
	25 1,2-Dichloroethene (cis)	96	2.793	2.790	(0.678)	24276	49.3440	49.3
	24 2,2-Dichloropropane	77	2.793	2.790	(0.678)	30380	49.3928	49.4
	26 2-Butanone	43	2.803	2.800	(0.680)	19226	211.116	211
	143 Methacrylonitrile	41	3.002	2.999	(0.728)	5665	220.902	221
	29 Bromochloromethane	49	3.018	3.015	(0.732)	12989	52.7232	52.7
	30 Tetrahydrofuran	42	3.080	3.083	(0.747)	2622	27.4369	27.4
	31 Chloroform	83	3.101	3.098	(0.753)	38112	44.3125	44.3
$	32 Dibromofluoromethane (S)	113	3.274	3.271	(0.794)	14662	50.7780	50.8
	33 1,1,1-Trichloroethane	97	3.305	3.297	(0.802)	33031	45.9630	46.0
	139 Cyclohexane	56	3.373	3.370	(0.819)	34307	45.2417	45.2
	37 Isobutyl alcohol	43	3.902	3.883	(0.947)	94872	319.521	320(QR)
	36 1,1-Dichloropropene	75	3.494	3.496	(0.848)	31638	45.9156	45.9
	35 Carbon Tetrachloride	117	3.499	3.496	(0.849)	23445	47.9202	47.9
	147 2,2,4-Trimethylpentane	57	3.886	3.883	(0.943)	78139	43.9599	44.0
	38 Benzene	78	3.750	3.752	(0.910)	84265	44.9893	45.0
	39 1,2-Dichloroethane	62	3.776	3.768	(0.916)	18832	41.6907	41.7
*	40 Fluorobenzene	96	4.121	4.118	(1.000)	64256	50.0000	
	41 Trichloroethene	95	4.582	4.579	(1.112)	25455	46.0595	46.0
	140 Methylcyclohexane	55	4.801	4.798	(1.165)	32566	46.3081	46.3
	42 1,2-Dichloropropane	63	4.833	4.830	(1.173)	20526	45.3581	45.4
	43 Dibromomethane	93	4.969	4.966	(1.206)	10289	45.8155	45.8
	141 1,4-Dioxane	88	5.026	5.028	(1.220)	2239		(Q)
	44 Methyl methacrylate	69	5.031	5.028	(1.221)	32800	165.272	165(R)
	45 Bromodichloromethane	83	5.173	5.170	(1.255)	25027	43.3611	43.4
	47 cis-1,3-Dichloropropene	75	5.685	5.687	(0.779)	30539	45.1806	45.2
	48 4-Methyl-2-Pentanone	43	5.879	5.876	(0.806)	55961	221.025	221
$	49 Toluene-d8	98	5.973	5.975	(0.819)	66872	51.0638	51.1
	50 Toluene	91	6.046	6.043	(0.829)	98553	47.0701	47.1
	51 trans-1,3-Dichloropropene	75	6.307	6.305	(0.865)	23243	42.5537	42.6
	52 Ethyl Methacrylate	69	6.443	6.441	(0.883)	79709	194.433	194(R)
	53 1,1,2-Trichloroethane	83	6.480	6.482	(0.888)	13286	42.6379	42.6
	54 Tetrachloroethene	166	6.611	6.608	(0.906)	29755	44.9519	45.0
	55 1,3-Dichloropropane	76	6.637	6.634	(0.910)	26575	51.5230	51.5
	56 2-Hexanone	43	6.742	6.739	(0.924)	39657	211.933	212
	57 Dibromochloromethane	129	6.836	6.833	(0.937)	15608	43.5699	43.6
	58 1,2-Dibromoethane	107	6.914	6.911	(0.948)	15468	49.4625	49.5
*	59 Chlorobenzene-d5	117	7.296	7.298	(1.000)	56649	50.0000	
	60 Chlorobenzene	112	7.317	7.319	(1.003)	61549	43.6360	43.6
	61 1,1,1,2-Tetrachloroethane	131	7.390	7.387	(1.013)	19235	47.2955	47.3
	62 Ethylbenzene	106	7.411	7.413	(1.016)	37325	48.6770	48.7
	63 m&p-Xylene	106	7.500	7.502	(1.028)	87109	98.4582	98.4
	65 o-Xylene	106	7.772	7.774	(1.065)	45000	45.9088	45.9
	66 Styrene	104	7.782	7.785	(1.067)	69463	46.0442	46.0
	67 Bromoform	173	7.897	7.900	(0.898)	8960	39.7149	39.7
	68 Isopropylbenzene	105	8.018	8.020	(1.099)	118691	45.3255	45.3
	69 trans-1,4-Dichloro-2-butene	53	8.243	8.240	(1.130)	14938	180.954	181(Q)
$	70 4-Bromofluorobenzene	95	8.112	8.114	(1.112)	27317	50.6785	50.7
	145 n-amyl acetate	70	7.924	7.926	(1.922)	43240		(Q)
	72 1,1,2,2-Tetrachloroethane	83	8.211	8.208	(0.934)	19508	45.9197	45.9
	71 Bromobenzene	77	8.201	8.198	(1.124)	46011	45.2358	45.2
	73 1,2,3-Trichloropropane	75	8.237	8.229	(0.937)	33741	79.6828	79.7(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
74	n-Propylbenzene	91	8.274	8.276	(0.941)	153611	46.3804	46.4
75	2-Chlorotoluene	91	8.321	8.323	(0.946)	88856	46.5734	46.6
76	4-Chlorotoluene	126	8.326	8.323	(0.947)	28137	45.1077	45.1
77	1,3,5-Trimethylbenzene	105	8.379	8.381	(0.953)	97790	46.1181	46.1
78	tert-Butylbenzene	119	8.572	8.569	(0.975)	103915	43.3913	43.4
79	1,2,4-Trimethylbenzene	105	8.598	8.595	(0.978)	95702	45.1201	45.1
80	sec-Butylbenzene	105	8.692	8.695	(0.989)	142328	52.7374	52.7
81	1,3-Dichlorobenzene	146	8.755	8.757	(0.996)	57674	51.7258	51.7
83	p-Isopropyltoluene	119	8.776	8.773	(0.998)	103110	45.3008	45.3
* 82	1,4-Dichlorobenzene-d4	152	8.792	8.794	(1.000)	27791	50.0000	
84	1,4-Dichlorobenzene	146	8.807	8.805	(1.002)	50553	47.5369	47.5
86	n-Butylbenzene	91	8.996	8.993	(1.023)	116718	45.9386	45.9
85	1,2-Dichlorobenzene	146	9.011	9.008	(1.025)	47319	43.7693	43.8
88	1,2,4-Trichlorobenzene	180	9.827	9.830	(1.118)	36422	41.1823	41.2
91	1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	30891	43.8254	43.8
87	1,2-Dibromo-3-chloropropane	155	9.409	9.411	(1.070)	2420	40.7012	40.7
89	Hexachlorobutadiene	225	9.906	9.908	(1.127)	30508	47.6205	47.6
90	Naphthalene	128	9.958	9.960	(1.133)	54235	44.1167	44.1
92	2,methyl-naphthalene	142	10.581	10.583	(1.203)	29552	39.2425	39.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d05.d
Lab Smp Id: 584131
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: ms5049277002
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	64256	-4.49
59 Chlorobenzene-d5	58912	29456	117824	56649	-3.84
82 1,4-Dichlorobenze	28356	14178	56712	27791	-1.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.07
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.03

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 584131
Level: LOW
Data Type: MS DATA
SpikeList File: 8260ms-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: ms5049277002
Operator: rsw
SampleType: MS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	56.4	112.77	35-200
2	Chloromethane	50.0	49.6	99.18	32-160
3	Vinyl Chloride	50.0	50.2	100.51	45-159
4	Bromomethane	50.0	44.6	89.29	10-200
5	Chloroethane	50.0	50.5	101.09	21-200
6	Trichlorofluoromet	50.0	52.5	105.01	17-200
28	1,2-dichlorotriflu	50.0	52.0	103.98	50-150
7	Diethyl ether	50.0	52.1	104.13	70-130
8	Acrolein	1000	1190	119.30	11-200
10	1,1,2trichlorotrif	50.0	46.3	92.57	53-132
9	1,1-Dichloroethene	50.0	49.7	99.37	54-152
11	Acetone	250	222	88.96	38-155
12	Iodomethane	100	90.2	90.24	10-171
13	Carbon Disulfide	100	106	105.73	43-144
138	Methyl Acetate	50.0	56.0	111.92	21-200
14	allyl chloride	100	83.2	83.24	39-155
15	Methylene Chloride	50.0	47.1	94.14	47-141
17	tert-Butyl Alcohol	100	75.4	75.41	50-150
16	Acrylonitrile	1000	885	88.48	42-150
19	Methyl-tert-butyl	100	88.5	88.49	39-137
18	1,2-Dichloroethene	50.0	49.4	98.73	48-144
20	n-Hexane	50.0	48.9	97.79	51-137
21	1,1-Dichloroethane	50.0	42.8	85.61	47-138
23	Vinyl Acetate	200	129	64.74	10-115
27	Propionitrile	50.0	0.000	*	50-150
25	1,2-Dichloroethene	50.0	49.3	98.69	48-145
24	2,2-Dichloropropan	50.0	49.4	98.79	13-142
26	2-Butanone	250	211	84.45	43-142
29	Bromochloromethane	50.0	52.7	105.45	54-144
30	Tetrahydrofuran	50.0	27.4	54.87	50-150
31	Chloroform	50.0	44.3	88.62	50-134
33	1,1,1-Trichloroeth	50.0	46.0	91.93	37-136
139	Cyclohexane	50.0	45.2	90.48	48-133
37	Isobutyl alcohol	50.0	320	639.04*	50-150
36	1,1-Dichloropropen	50.0	45.9	91.83	47-136
35	Carbon Tetrachlori	50.0	47.9	95.84	26-136
38	Benzene	50.0	45.0	89.98	52-134
39	1,2-Dichloroethane	50.0	41.7	83.38	42-139
41	Trichloroethene	50.0	46.0	92.12	44-130
140	Methylcyclohexane	50.0	46.3	92.62	45-129

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	45.4	90.72	50-131
43 Dibromomethane	50.0	45.8	91.63	49-134
44 Methyl methacrylat	50.0	165	330.54*	50-150
45 Bromodichlorometha	50.0	43.4	86.72	42-128
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	45.2	90.36	34-116
48 4-Methyl-2-Pentano	250	221	88.41	43-140
50 Toluene	50.0	47.1	94.14	42-130
51 trans-1,3-Dichloro	50.0	42.6	85.11	24-114
52 Ethyl Methacrylate	50.0	194	388.87*	54-123
53 1,1,2-Trichloroeth	50.0	42.6	85.28	53-131
54 Tetrachloroethene	50.0	45.0	89.90	30-124
55 1,3-Dichloropropan	50.0	51.5	103.05	53-130
56 2-Hexanone	250	212	84.77	46-139
57 Dibromochlorometha	50.0	43.6	87.14	39-122
58 1,2-Dibromoethane	50.0	49.5	98.93	49-130
60 Chlorobenzene	50.0	43.6	87.27	33-136
61 1,1,1,2-Tetrachlor	50.0	47.3	94.59	30-122
62 Ethylbenzene	50.0	48.7	97.35	29-132
63 m&p-Xylene	100	98.4	98.46	29-131
65 o-Xylene	50.0	45.9	91.82	29-131
66 Styrene	50.0	46.0	92.09	20-143
67 Bromoform	50.0	39.7	79.43	34-116
68 Isopropylbenzene	50.0	45.3	90.65	11-146
71 Bromobenzene	50.0	45.2	90.47	25-140
72 1,1,2,2-Tetrachlor	50.0	45.9	91.84	47-132
73 1,2,3-Trichloropro	100	79.7	79.68	24-108
69 trans-1,4-Dichloro	200	181	90.48	22-120
74 n-Propylbenzene	50.0	46.4	92.76	10-148
75 2-Chlorotoluene	50.0	46.6	93.15	15-145
76 4-Chlorotoluene	50.0	45.1	90.22	12-143
77 1,3,5-Trimethylben	50.0	46.1	92.24	10-145
78 tert-Butylbenzene	50.0	43.4	86.78	10-123
79 1,2,4-Trimethylben	50.0	45.1	90.24	10-141
80 sec-Butylbenzene	50.0	52.7	105.47	10-150
81 1,3-Dichlorobenzen	50.0	51.7	103.45	13-143
83 p-Isopropyltoluene	50.0	45.3	90.60	10-150
84 1,4-Dichlorobenzen	50.0	47.5	95.07	10-140
86 n-Butylbenzene	50.0	45.9	91.88	10-156
85 1,2-Dichlorobenzen	50.0	43.8	87.54	20-137
87 1,2-Dibromo-3-chlo	50.0	40.7	81.40	32-139
88 1,2,4-Trichloroben	50.0	41.2	82.36	10-130
89 Hexachlorobutadien	50.0	47.6	95.24	10-146
90 Naphthalene	50.0	44.1	88.23	40-124
91 1,2,3-Trichloroben	50.0	43.8	87.65	15-132
92 2,methyl-naphthale	50.0	39.2	78.48	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.8	101.56	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	51.1	102.13	80-120
$ 70 4-Bromofluorobenze	50.0	50.7	101.36	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584131
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

Client SDG: b061011.b
Client Smp ID: ms5049277002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	56.4	
74-87-3	Chloromethane	49.6	
75-01-4	Vinyl Chloride	50.2	
74-83-9	Bromomethane	44.6	
75-00-3	Chloroethane	50.5	
75-69-4	Trichlorofluoromethane	52.5	
354-23-4	1,2-dichlorotrifluoroethane	52.0	
60-29-7	Diethyl ether	52.1	
107-02-8	Acrolein	1190	
75-35-4	1,1-Dichloroethene	49.7	
76-13-1	1,1,2trichlorotrifluoroethan	46.3	
67-64-1	Acetone	222	
	Iodomethane	90.2	
75-05-8	Acetonitrile	832	
75-15-0	Carbon Disulfide	106	
79-20-9	Methyl Acetate	56.0	
107-05-1	allyl chloride	83.2	
75-09-2	Methylene Chloride	47.1	
107-13-1	Acrylonitrile	885	
75-65-0	tert-Butyl Alcohol	75.4	
156-60-5	1,2-Dichloroethene (trans)	49.4	
1634-04-4	Methyl-tert-butyl ether	88.5	
	n-Hexane	48.9	
126-99-8	Chloroprene	32.5	
75-34-3	1,1-Dichloroethane	42.8	
108-05-4	Vinyl Acetate	129	
156-59-2	1,2-Dichloroethene (cis)	49.3	
594-20-7	2,2-Dichloropropane	49.4	
78-93-3	2-Butanone	211	
126-98-7	Methacrylonitrile	221	
74-97-5	Bromochloromethane	52.7	
	Tetrahydrofuran	27.4	
67-66-3	Chloroform	44.3	
71-55-6	1,1,1-Trichloroethane	46.0	
110-82-7	Cyclohexane	45.2	
78-83-1	Isobutyl alcohol	320	
563-58-6	1,1-Dichloropropene	45.9	
56-23-5	Carbon Tetrachloride	47.9	
540-84-1	2,2,4-Trimethylpentane	44.0	
71-43-2	Benzene	45.0	
107-06-2	1,2-Dichloroethane	41.7	
79-01-6	Trichloroethene	46.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584131
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

Client SDG: b061011.b
Client Smp ID: ms5049277002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	46.3	
78-87-5	1,2-Dichloropropane	45.4	
74-95-3	Dibromomethane	45.8	
	1,4-Dioxane	0.000	
80-62-6	Methyl methacrylate	165	
75-27-4	Bromodichloromethane	43.4	
10061-01-5	cis-1,3-Dichloropropene	45.2	
108-10-1	4-Methyl-2-Pentanone	221	
108-88-3	Toluene	47.1	
10061-02-6	trans-1,3-Dichloropropene	42.6	
	Ethyl Methacrylate	194	
79-00-5	1,1,2-Trichloroethane	42.6	
127-18-4	Tetrachloroethene	45.0	
142-28-9	1,3-Dichloropropane	51.5	
591-78-6	2-Hexanone	212	
124-48-1	Dibromochloromethane	43.6	
106-93-4	1,2-Dibromoethane	49.5	
108-90-7	Chlorobenzene	43.6	
630-20-6	1,1,1,2-Tetrachloroethane	47.3	
100-41-4	Ethylbenzene	48.7	
7816-60-0	m&p-Xylene	98.4	
95-47-6	o-Xylene	45.9	
100-42-5	Styrene	46.0	
75-25-2	Bromoform	39.7	
98-82-8	Isopropylbenzene	45.3	
	trans-1,4-Dichloro-2-butene	181	
628-63-7	n-amyl acetate	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	45.9	
108-86-1	Bromobenzene	45.2	
96-18-4	1,2,3-Trichloropropane	79.7	
103-65-1	n-Propylbenzene	46.4	
95-49-8	2-Chlorotoluene	46.6	
106-43-4	4-Chlorotoluene	45.1	
108-67-8	1,3,5-Trimethylbenzene	46.1	
98-06-6	tert-Butylbenzene	43.4	
95-63-6	1,2,4-Trimethylbenzene	45.1	
135-98-8	sec-Butylbenzene	52.7	
541-73-1	1,3-Dichlorobenzene	51.7	
99-87-6	p-Isopropyltoluene	45.3	
106-46-7	1,4-Dichlorobenzene	47.5	
104-51-8	n-Butylbenzene	45.9	
95-50-1	1,2-Dichlorobenzene	43.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

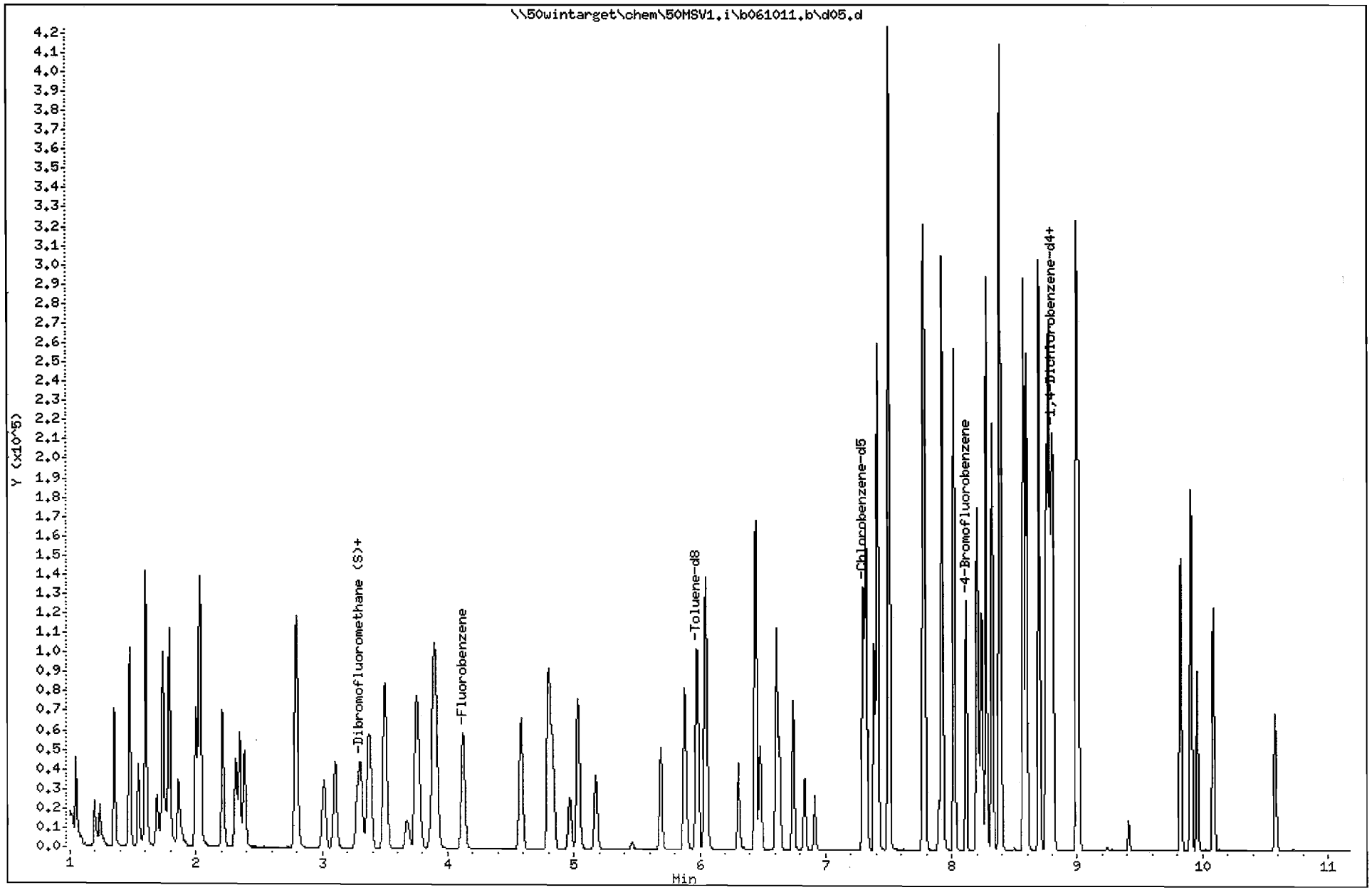
Client Name:
Lab Smp Id: 584131
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

Client SDG: b061011.b
Client Smp ID: ms5049277002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	41.2	
87-61-6	1,2,3-Trichlorobenzene	43.8	
96-12-8	1,2-Dibromo-3-chloropropane	40.7	
87-68-3	Hexachlorobutadiene	47.6	
91-20-3	Naphthalene	44.1	
	2,methyl-naphthalene	39.2	
1868-53-7	Dibromofluoromethane (S)	50.8	
2037-26-5	Toluene-d8	51.1	
460-00-4	4-Bromofluorobenzene	50.7	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d05.d
Date : 10-JUN-2011 22:39
Client ID: ms5049277002
Sample Info: ms5049277002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d05.d

Date : 10-JUN-2011 22:39

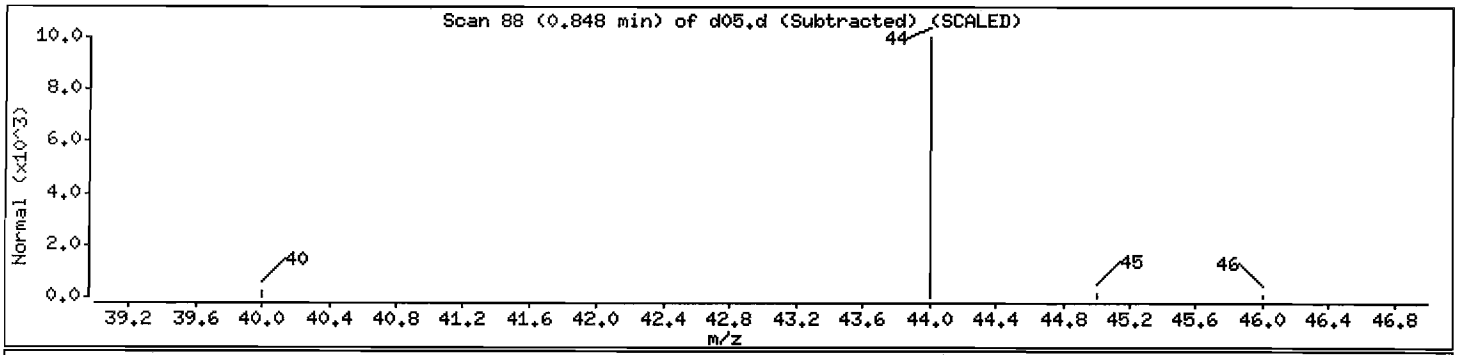
Client ID: ms5049277002 Instrument: 50MSV1.i

Sample Info: ms5049277002

Purge Volume: 5.0 Operator: rsw

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d06.d
Lab Smp Id: 584132 Client Smp ID: msd5049277002
Inj Date : 10-JUN-2011 23:13
Operator : rsw Inst ID: 50MSV1.i
Smp Info : msd5049277002
Misc Info : 33200
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 36 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.917	0.917	(0.223)	38304	53.3307	53.3
2 Chloromethane	50	0.996	1.017	(0.242)	30060	46.8398	46.8
3 Vinyl Chloride	62	1.048	1.043	(0.255)	30230	49.7880	49.8
4 Bromomethane	94	1.194	1.189	(0.290)	14487	44.3066	44.3
5 Chloroethane	64	1.236	1.231	(0.300)	13128	48.3510	48.4
6 Trichlorofluoromethane	101	1.351	1.352	(0.328)	34314	50.1038	50.1
28 1,2-dichlorotrifluoroethane	67	1.472	1.472	(0.357)	25778	48.6712	48.7
7 Diethyl ether	74	1.477	1.477	(0.359)	6527	47.9101	47.9
8 Acrolein	56	1.540	1.540	(0.374)	25072	1137.46	1140
9 1,1-Dichloroethene	96	1.602	1.603	(0.389)	17655	44.3606	44.4
10 1,1,2trichlorotrifluoroethane	101	1.597	1.597	(0.388)	19258	42.9109	42.9
11 Acetone	43	1.613	1.613	(0.392)	10154	226.813	227
12 Iodomethane	142	1.691	1.686	(0.411)	32973	90.5600	90.6
142 Acetonitrile	41	1.791	1.786	(0.435)	39313	788.729	789
13 Carbon Disulfide	76	1.733	1.733	(0.421)	116557	97.4542	97.4
138 Methyl Acetate	43	1.791	1.791	(0.435)	5871	51.7705	51.8
14 allyl chloride	41	1.791	1.786	(0.435)	39313	78.8685	78.9
15 Methylene Chloride	84	1.859	1.854	(0.451)	15656	44.2293	44.2
16 Acrylonitrile	53	1.995	1.995	(0.484)	44580	830.208	830
17 tert-Butyl Alcohol	59	1.911	1.911	(0.464)	1423	88.6547	88.6
18 1,2-Dichloroethene (trans)	96	2.026	2.026	(0.492)	17778	45.3032	45.3
19 Methyl-tert-butyl ether	73	2.026	2.026	(0.492)	57522	81.8654	81.9
20 n-Hexane	57	2.209	2.209	(0.536)	28172	47.0015	47.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	146 Chloroprene	53	2.382	2.382	(0.578)	22920	29.8669	29.9
	21 1,1-Dichloroethane	63	2.314	2.309	(0.562)	38774	41.9987	42.0
	23 Vinyl Acetate	43	2.345	2.340	(0.569)	66995	119.000	119
	25 1,2-Dichloroethene (cis)	96	2.790	2.790	(0.677)	24675	46.1156	46.1
	24 2,2-Dichloropropane	77	2.790	2.790	(0.677)	31200	46.6455	46.6
	26 2-Butanone	43	2.800	2.800	(0.680)	20106	202.800	203
	143 Methacrylonitrile	41	3.004	2.999	(0.730)	5966	213.925	214
	29 Bromochloromethane	49	3.014	3.015	(0.732)	13775	51.3279	51.3
	30 Tetrahydrofuran	42	3.082	3.083	(0.749)	2915	28.0492	28.0
	31 Chloroform	83	3.103	3.098	(0.754)	39786	42.5220	42.5
$	32 Dibromofluoromethane (S)	113	3.276	3.271	(0.796)	15924	50.7124	50.7
	33 1,1,1-Trichloroethane	97	3.307	3.297	(0.803)	33586	42.9758	43.0
	139 Cyclohexane	56	3.365	3.370	(0.817)	36565	44.3287	44.3
	37 Isobutyl alcohol	43	3.904	3.883	(0.948)	97694	302.558	302(QR)
	36 1,1-Dichloropropene	75	3.496	3.496	(0.849)	31355	41.7860	41.8
	35 Carbon Tetrachloride	117	3.501	3.496	(0.850)	24472	45.9958	46.0
	147 2,2,4-Trimethylpentane	57	3.888	3.883	(0.944)	83041	42.9420	42.9
	38 Benzene	78	3.752	3.752	(0.911)	87892	43.1150	43.1
	39 1,2-Dichloroethane	62	3.773	3.768	(0.916)	19634	39.9531	40.0
*	40 Fluorobenzene	96	4.118	4.118	(1.000)	69877	50.0000	
	41 Trichloroethene	95	4.578	4.579	(1.112)	26893	44.7471	44.7
	140 Methylcyclohexane	55	4.803	4.798	(1.166)	35029	45.7985	45.8
	42 1,2-Dichloropropane	63	4.834	4.830	(1.174)	22341	45.3981	45.4
	43 Dibromomethane	93	4.970	4.966	(1.207)	10791	44.1856	44.2
	141 1,4-Dioxane	88	5.028	5.028	(1.221)	2396		(Q)
	44 Methyl methacrylate	69	5.028	5.028	(1.221)	34827	161.369	161(R)
	45 Bromodichloromethane	83	5.174	5.170	(1.257)	27524	43.8513	43.8
	47 cis-1,3-Dichloropropene	75	5.687	5.687	(0.779)	33838	45.6591	45.6
	48 4-Methyl-2-Pentanone	43	5.881	5.876	(0.806)	58728	211.092	211
$	49 Toluene-d8	98	5.975	5.975	(0.819)	71623	49.8460	49.8
	50 Toluene	91	6.048	6.043	(0.829)	105040	45.6819	45.7
	51 trans-1,3-Dichloropropene	75	6.304	6.305	(0.864)	23907	39.7243	39.7
	52 Ethyl Methacrylate	69	6.440	6.441	(0.882)	77960	172.805	173(R)
	53 1,1,2-Trichloroethane	83	6.482	6.482	(0.888)	14029	40.9959	41.0
	54 Tetrachloroethene	166	6.613	6.608	(0.906)	33079	45.6096	45.6
	55 1,3-Dichloropropane	76	6.634	6.634	(0.909)	27061	47.3841	47.4
	56 2-Hexanone	43	6.738	6.739	(0.923)	40754	197.814	198
	57 Dibromochloromethane	129	6.832	6.833	(0.936)	16386	41.5862	41.6
	58 1,2-Dibromoethane	107	6.911	6.911	(0.947)	16217	47.0132	47.0
*	59 Chlorobenzene-d5	117	7.298	7.298	(1.000)	62156	50.0000	
	60 Chlorobenzene	112	7.319	7.319	(1.003)	66776	43.1326	43.1
	61 1,1,1,2-Tetrachloroethane	131	7.392	7.387	(1.013)	19066	42.3698	42.4
	62 Ethylbenzene	106	7.413	7.413	(1.016)	40304	47.8770	47.9
	63 m&p-Xylene	106	7.502	7.502	(1.028)	90760	93.2078	93.2
	65 o-Xylene	106	7.774	7.774	(1.065)	47857	44.4672	44.5
	66 Styrene	104	7.784	7.785	(1.067)	66739	40.0951	40.1
	67 Bromoform	173	7.899	7.900	(0.898)	9889	42.3853	42.4
	68 Isopropylbenzene	105	8.020	8.020	(1.099)	127152	44.2021	44.2
	69 trans-1,4-Dichloro-2-butene	53	8.239	8.240	(1.129)	15865	174.987	175(Q)
$	70 4-Bromofluorobenzene	95	8.114	8.114	(1.112)	27682	46.8056	46.8
	145 n-amyl acetate	70	7.925	7.926	(1.924)	46999		(Q)
	72 1,1,2,2-Tetrachloroethane	83	8.208	8.208	(0.933)	20936	47.8727	47.9
	71 Bromobenzene	77	8.203	8.198	(1.124)	60810	55.6713	55.7
	73 1,2,3-Trichloropropane	75	8.239	8.229	(0.937)	34732	79.2973	79.3(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
74 n-Propylbenzene	91	8.276	8.276	(0.941)	157076	45.8467	45.8
75 2-Chlorotoluene	91	8.323	8.323	(0.946)	89738	45.4564	45.4
76 4-Chlorotoluene	126	8.323	8.323	(0.946)	28837	44.6977	44.7
77 1,3,5-Trimethylbenzene	105	8.381	8.381	(0.953)	95600	43.5133	43.5
78 tert-Butylbenzene	119	8.569	8.569	(0.974)	105409	42.5408	42.5
79 1,2,4-Trimethylbenzene	105	8.600	8.595	(0.978)	91562	41.6367	41.6
80 sec-Butylbenzene	105	8.694	8.695	(0.989)	144342	51.5928	51.6
81 1,3-Dichlorobenzene	146	8.757	8.757	(0.996)	56426	48.6108	48.6
83 p-Isopropyltoluene	119	8.773	8.773	(0.998)	109927	46.7488	46.7
* 82 1,4-Dichlorobenzene-d4	152	8.794	8.794	(1.000)	28740	50.0000	
84 1,4-Dichlorobenzene	146	8.809	8.805	(1.002)	53001	48.2690	48.3
86 n-Butylbenzene	91	8.992	8.993	(1.023)	120887	46.0096	46.0
85 1,2-Dichlorobenzene	146	9.008	9.008	(1.024)	50396	45.1172	45.1
88 1,2,4-Trichlorobenzene	180	9.829	9.830	(1.118)	40142	44.1495	44.1
91 1,2,3-Trichlorobenzene	180	10.086	10.086	(1.147)	32286	44.3387	44.3
87 1,2-Dibromo-3-chloropropane	155	9.411	9.411	(1.070)	2467	40.1396	40.1
89 Hexachlorobutadiene	225	9.908	9.908	(1.127)	32600	49.3632	49.4
90 Naphthalene	128	9.960	9.960	(1.133)	56919	44.8469	44.8
92 2,methyl-naphthalene	142	10.582	10.583	(1.203)	31955	41.1758	41.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d06.d
Lab Smp Id: 584132
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: msd5049277002
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	69877	3.87
59 Chlorobenzene-d5	58912	29456	117824	62156	5.51
82 1,4-Dichlorobenze	28356	14178	56712	28740	1.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.00
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 584132
Level: LOW
Data Type: MS DATA
SpikeList File: 8260ms-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: msd5049277002
Operator: rsw
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	53.3	106.66	35-200
2 Chloromethane	50.0	46.8	93.68	32-160
3 Vinyl Chloride	50.0	49.8	99.58	45-159
4 Bromomethane	50.0	44.3	88.61	10-200
5 Chloroethane	50.0	48.4	96.70	21-200
6 Trichlorofluoromet	50.0	50.1	100.21	17-200
28 1,2-dichlorotriflu	50.0	48.7	97.34	50-150
7 Diethyl ether	50.0	47.9	95.82	70-130
8 Acrolein	1000	1140	113.75	11-200
10 1,1,2trichlorotrif	50.0	42.9	85.82	53-132
9 1,1-Dichloroethene	50.0	44.4	88.72	54-152
11 Acetone	250	227	90.73	38-155
12 Iodomethane	100	90.6	90.56	10-171
13 Carbon Disulfide	100	97.4	97.45	43-144
138 Methyl Acetate	50.0	51.8	103.54	21-200
14 allyl chloride	100	78.9	78.87	39-155
15 Methylene Chloride	50.0	44.2	88.46	47-141
17 tert-Butyl Alcohol	100	88.6	88.65	50-150
16 Acrylonitrile	1000	830	83.02	42-150
19 Methyl-tert-butyl	100	81.9	81.87	39-137
18 1,2-Dichloroethene	50.0	45.3	90.61	48-144
20 n-Hexane	50.0	47.0	94.00	51-137
21 1,1-Dichloroethane	50.0	42.0	84.00	47-138
23 Vinyl Acetate	200	119	59.50	10-115
27 Propionitrile	50.0	0.000	*	50-150
25 1,2-Dichloroethene	50.0	46.1	92.23	48-145
24 2,2-Dichloropropan	50.0	46.6	93.29	13-142
26 2-Butanone	250	203	81.12	43-142
29 Bromochloromethane	50.0	51.3	102.66	54-144
30 Tetrahydrofuran	50.0	28.0	56.10	50-150
31 Chloroform	50.0	42.5	85.04	50-134
33 1,1,1-Trichloroeth	50.0	43.0	85.95	37-136
139 Cyclohexane	50.0	44.3	88.66	48-133
37 Isobutyl alcohol	50.0	302	605.12*	50-150
36 1,1-Dichloropropen	50.0	41.8	83.57	47-136
35 Carbon Tetrachlori	50.0	46.0	91.99	26-136
38 Benzene	50.0	43.1	86.23	52-134
39 1,2-Dichloroethane	50.0	40.0	79.91	42-139
41 Trichloroethene	50.0	44.7	89.49	44-130
140 Methylcyclohexane	50.0	45.8	91.60	45-129

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	45.4	90.80	50-131
43 Dibromomethane	50.0	44.2	88.37	49-134
44 Methyl methacrylat	50.0	161	322.74*	50-150
45 Bromodichlorometha	50.0	43.8	87.70	42-128
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	45.6	91.32	34-116
48 4-Methyl-2-Pentano	250	211	84.44	43-140
50 Toluene	50.0	45.7	91.36	42-130
51 trans-1,3-Dichloro	50.0	39.7	79.45	24-114
52 Ethyl Methacrylate	50.0	173	345.61*	54-123
53 1,1,2-Trichloroeth	50.0	41.0	81.99	53-131
54 Tetrachloroethene	50.0	45.6	91.22	30-124
55 1,3-Dichloropropan	50.0	47.4	94.77	53-130
56 2-Hexanone	250	198	79.13	46-139
57 Dibromochlorometha	50.0	41.6	83.17	39-122
58 1,2-Dibromoethane	50.0	47.0	94.03	49-130
60 Chlorobenzene	50.0	43.1	86.27	33-136
61 1,1,1,2-Tetrachlor	50.0	42.4	84.74	30-122
62 Ethylbenzene	50.0	47.9	95.75	29-132
63 m&p-Xylene	100	93.2	93.21	29-131
65 o-Xylene	50.0	44.5	88.93	29-131
66 Styrene	50.0	40.1	80.19	20-143
67 Bromoform	50.0	42.4	84.77	34-116
68 Isopropylbenzene	50.0	44.2	88.40	11-146
71 Bromobenzene	50.0	55.7	111.34	25-140
72 1,1,2,2-Tetrachlor	50.0	47.9	95.75	47-132
73 1,2,3-Trichloropro	100	79.3	79.30	24-108
69 trans-1,4-Dichloro	200	175	87.49	22-120
74 n-Propylbenzene	50.0	45.8	91.69	10-148
75 2-Chlorotoluene	50.0	45.4	90.91	15-145
76 4-Chlorotoluene	50.0	44.7	89.40	12-143
77 1,3,5-Trimethylben	50.0	43.5	87.03	10-145
78 tert-Butylbenzene	50.0	42.5	85.08	10-123
79 1,2,4-Trimethylben	50.0	41.6	83.27	10-141
80 sec-Butylbenzene	50.0	51.6	103.19	10-150
81 1,3-Dichlorobenzen	50.0	48.6	97.22	13-143
83 p-Isopropyltoluene	50.0	46.7	93.50	10-150
84 1,4-Dichlorobenzen	50.0	48.3	96.54	10-140
86 n-Butylbenzene	50.0	46.0	92.02	10-156
85 1,2-Dichlorobenzen	50.0	45.1	90.23	20-137
87 1,2-Dibromo-3-chlo	50.0	40.1	80.28	32-139
88 1,2,4-Trichloroben	50.0	44.1	88.30	10-130
89 Hexachlorobutadien	50.0	49.4	98.73	10-146
90 Naphthalene	50.0	44.8	89.69	40-124
91 1,2,3-Trichloroben	50.0	44.3	88.68	15-132
92 2,methyl-naphthale	50.0	41.2	82.35	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.7	101.42	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	49.8	99.69	80-120
$ 70 4-Bromofluorobenze	50.0	46.8	93.61	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584132
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

Client SDG: b061011.b
Client Smp ID: msd5049277002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	53.3	
74-87-3	Chloromethane	46.8	
75-01-4	Vinyl Chloride	49.8	
74-83-9	Bromomethane	44.3	
75-00-3	Chloroethane	48.4	
75-69-4	Trichlorofluoromethane	50.1	
354-23-4	1,2-dichlorotrifluoroethane	48.7	
60-29-7	Diethyl ether	47.9	
107-02-8	Acrolein	1140	
75-35-4	1,1-Dichloroethene	44.4	
76-13-1	1,1,2trichlorotrifluoroethan	42.9	
67-64-1	Acetone	227	
	Iodomethane	90.6	
75-05-8	Acetonitrile	789	
75-15-0	Carbon Disulfide	97.4	
79-20-9	Methyl Acetate	51.8	
107-05-1	allyl chloride	78.9	
75-09-2	Methylene Chloride	44.2	
107-13-1	Acrylonitrile	830	
75-65-0	tert-Butyl Alcohol	88.6	
156-60-5	1,2-Dichloroethene (trans)	45.3	
1634-04-4	Methyl-tert-butyl ether	81.9	
	n-Hexane	47.0	
126-99-8	Chloroprene	29.9	
75-34-3	1,1-Dichloroethane	42.0	
108-05-4	Vinyl Acetate	119	
156-59-2	1,2-Dichloroethene (cis)	46.1	
594-20-7	2,2-Dichloropropane	46.6	
78-93-3	2-Butanone	203	
126-98-7	Methacrylonitrile	214	
74-97-5	Bromochloromethane	51.3	
	Tetrahydrofuran	28.0	
67-66-3	Chloroform	42.5	
71-55-6	1,1,1-Trichloroethane	43.0	
110-82-7	Cyclohexane	44.3	
78-83-1	Isobutyl alcohol	302	
563-58-6	1,1-Dichloropropene	41.8	
56-23-5	Carbon Tetrachloride	46.0	
540-84-1	2,2,4-Trimethylpentane	42.9	
71-43-2	Benzene	43.1	
107-06-2	1,2-Dichloroethane	40.0	
79-01-6	Trichloroethene	44.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584132
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

Client SDG: b061011.b
Client Smp ID: msd5049277002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	45.8	
78-87-5	1,2-Dichloropropane	45.4	
74-95-3	Dibromomethane	44.2	
	1,4-Dioxane	0.000	
80-62-6	Methyl methacrylate	161	
75-27-4	Bromodichloromethane	43.8	
10061-01-5	cis-1,3-Dichloropropene	45.6	
108-10-1	4-Methyl-2-Pentanone	211	
108-88-3	Toluene	45.7	
10061-02-6	trans-1,3-Dichloropropene	39.7	
	Ethyl Methacrylate	173	
79-00-5	1,1,2-Trichloroethane	41.0	
127-18-4	Tetrachloroethene	45.6	
142-28-9	1,3-Dichloropropane	47.4	
591-78-6	2-Hexanone	198	
124-48-1	Dibromochloromethane	41.6	
106-93-4	1,2-Dibromoethane	47.0	
108-90-7	Chlorobenzene	43.1	
630-20-6	1,1,1,2-Tetrachloroethane	42.4	
100-41-4	Ethylbenzene	47.9	
7816-60-0	m&p-Xylene	93.2	
95-47-6	o-Xylene	44.5	
100-42-5	Styrene	40.1	
75-25-2	Bromoform	42.4	
98-82-8	Isopropylbenzene	44.2	
	trans-1,4-Dichloro-2-butene	175	
628-63-7	n-amyl acetate	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	47.9	
108-86-1	Bromobenzene	55.7	
96-18-4	1,2,3-Trichloropropane	79.3	
103-65-1	n-Propylbenzene	45.8	
95-49-8	2-Chlorotoluene	45.4	
106-43-4	4-Chlorotoluene	44.7	
108-67-8	1,3,5-Trimethylbenzene	43.5	
98-06-6	tert-Butylbenzene	42.5	
95-63-6	1,2,4-Trimethylbenzene	41.6	
135-98-8	sec-Butylbenzene	51.6	
541-73-1	1,3-Dichlorobenzene	48.6	
99-87-6	p-Isopropyltoluene	46.7	
106-46-7	1,4-Dichlorobenzene	48.3	
104-51-8	n-Butylbenzene	46.0	
95-50-1	1,2-Dichlorobenzene	45.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584132
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

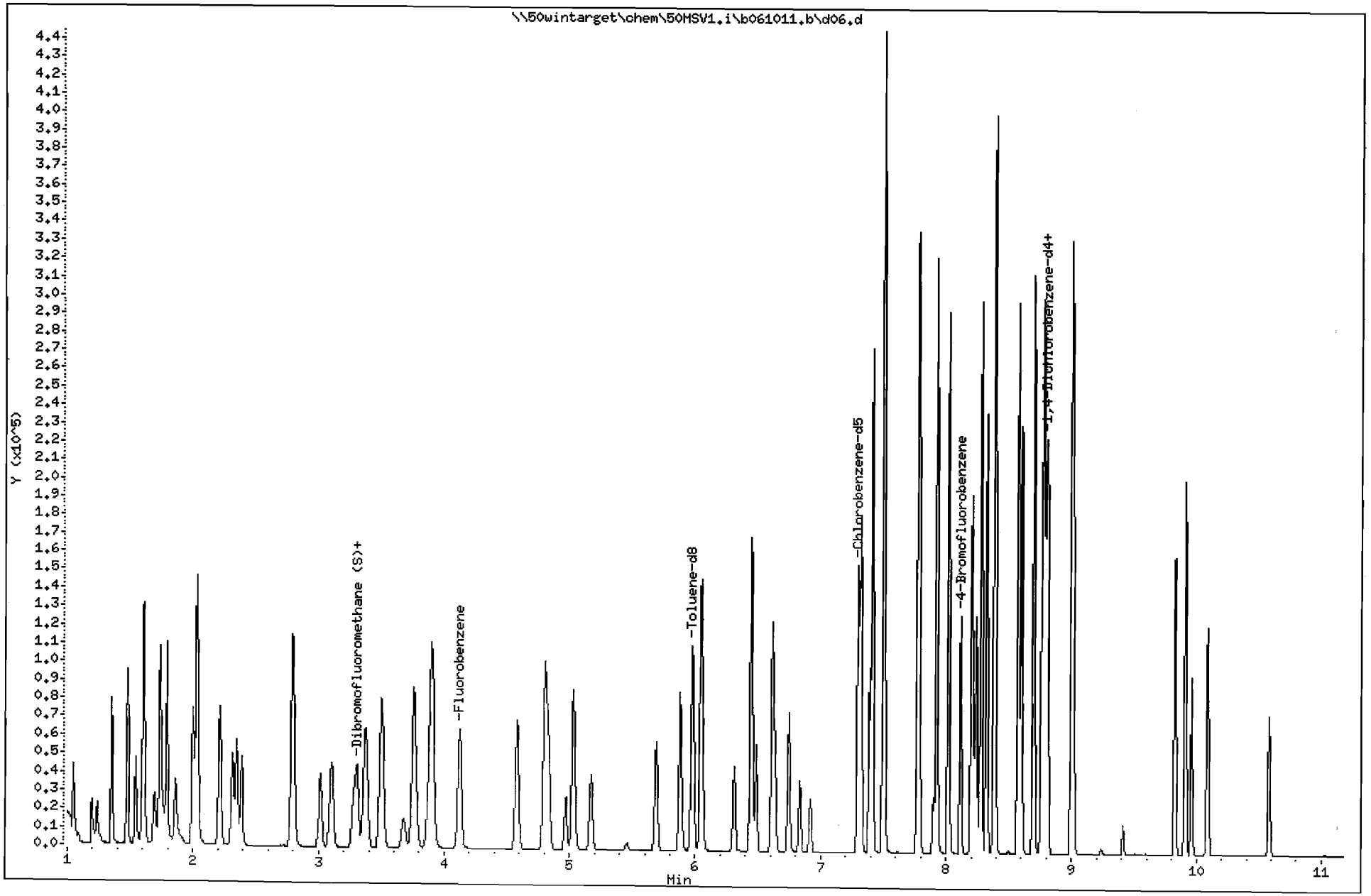
Client SDG: b061011.b
Client Smp ID: msd5049277002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	44.1	
87-61-6	1,2,3-Trichlorobenzene	44.3	
96-12-8	1,2-Dibromo-3-chloropropane	40.1	
87-68-3	Hexachlorobutadiene	49.4	
91-20-3	Naphthalene	44.8	
	2,methyl-naphthalene	41.2	
1868-53-7	Dibromofluoromethane (S)	50.7	
2037-26-5	Toluene-d8	49.8	
460-00-4	4-Bromofluorobenzene	46.8	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d06.d
Date : 10-JUN-2011 23:13
Client ID: msd5049277002
Sample Info: msd5049277002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d06.d

Date : 10-JUN-2011 23:13

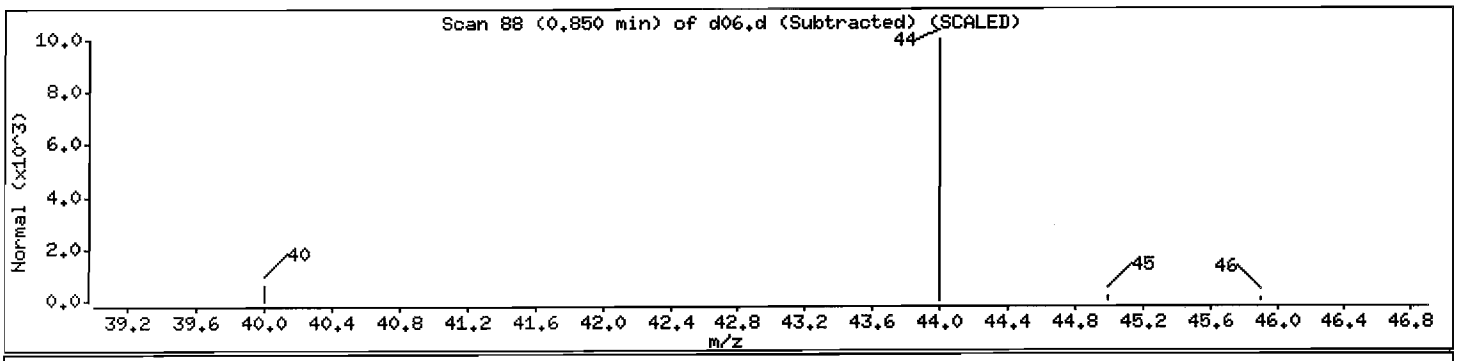
Client ID: msd5049277002 Instrument: 50MSV1.i

Sample Info: msd5049277002

Purge Volume: 5.0 Operator: rsw

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 5: Method Blank Data

** Method Blanks*

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\b03mb.d
Lab Smp Id: mb Client Smp ID: mb
Inj Date : 09-JUN-2011 17:09
Operator : rsw Inst ID: 50MSV5.i
Smp Info : mb MeOH DD728
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	2.989	2.989	(0.791)	46228	59.5015	59.5
* 40 Fluorobenzene	96	3.779	3.773	(1.000)	153926	50.0000	
$ 49 Toluene-d8	98	5.704	5.703	(0.803)	171979	45.2222	45.2
* 59 Chlorobenzene-d5	117	7.106	7.105	(1.000)	148767	50.0000	
$ 70 4-Bromofluorobenzene	95	7.942	7.942	(1.118)	73933	55.4417	55.4
* 82 1,4-Dichlorobenzene-d4	152	8.622	8.622	(1.000)	92860	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b03mb.d
Lab Smp Id: mb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info:

Calibration Date: 10-JUN-2011
Calibration Time: 04:25
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	174975	87488	349950	153926	-12.03
59 Chlorobenzene-d5	166975	83488	333950	148767	-10.90
82 1,4-Dichlorobenze	101237	50619	202474	92860	-8.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.78	0.15
59 Chlorobenzene-d5	7.11	6.61	7.61	7.11	0.01
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	0.01

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: mb
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Client SDG: b060911.b
Fraction: VOA
Client Smp ID: mb
Operator: rsw
SampleType: BLANK
Quant Type: ISTD
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	59.5	119.00	83-123
$ 49 Toluene-d8	50.0	45.2	90.44	81-114
$ 70 4-Bromofluorobenze	50.0	55.4	110.88	72-125

Pace Analytical Services, Inc.

TARGET COMPOUNDS

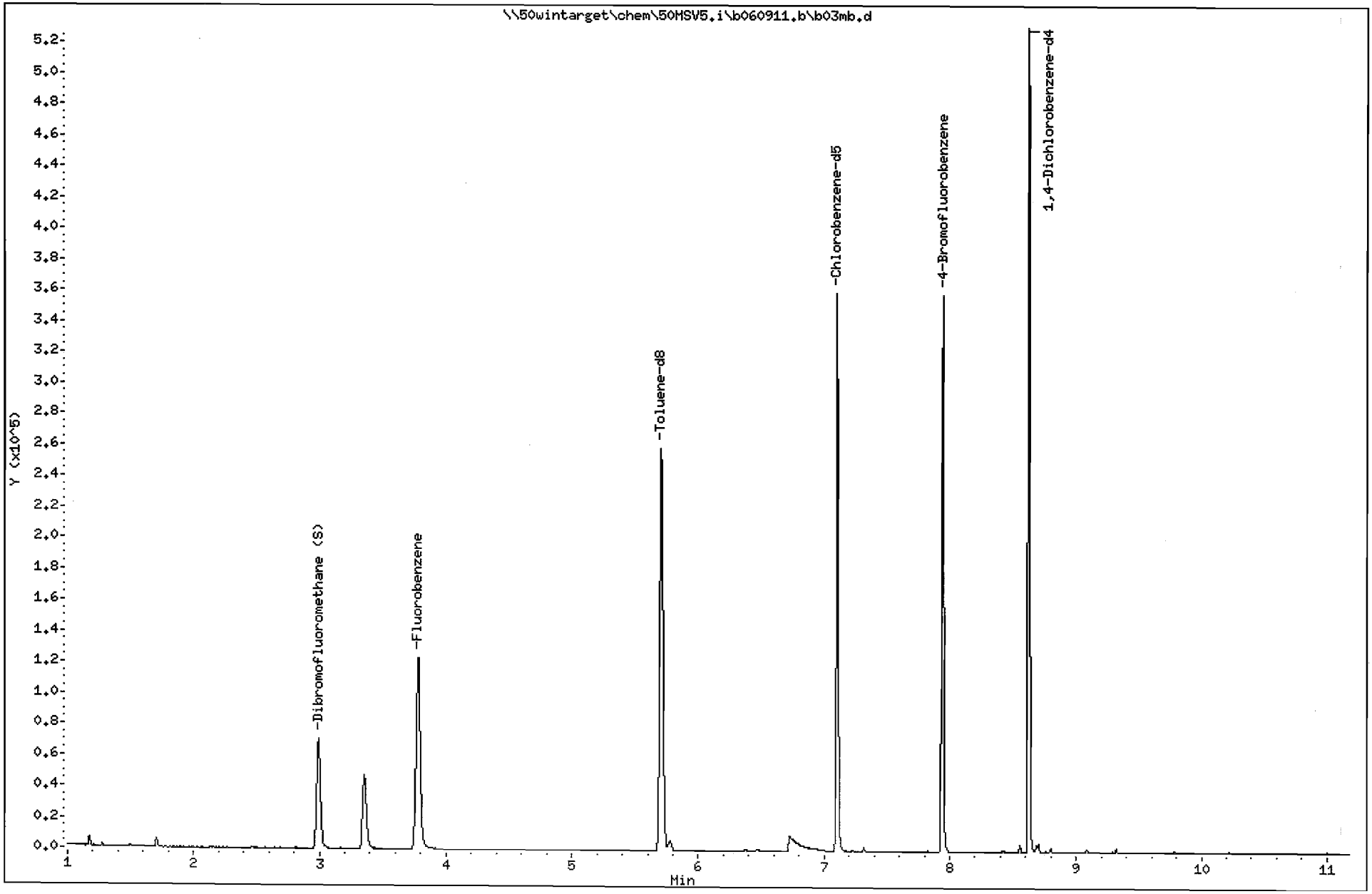
Client Name:
Lab Smp Id: mb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b060911.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	59.5	
2037-26-5	Toluene-d8	45.2	
460-00-4	4-Bromofluorobenzene	55.4	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b03mb.d
Date : 09-JUN-2011 17:09
Client ID: mb
Sample Info: mb MeOH DD728
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b03mb.d

Date : 09-JUN-2011 17:09

Client ID: mb

Instrument: 50MSV5.i

Sample Info: mb MeOH DD728

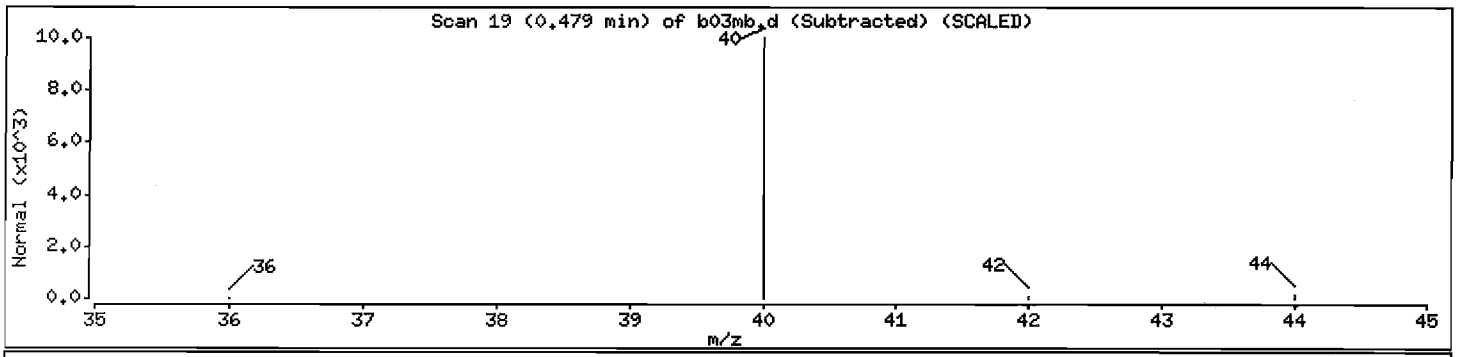
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\d03mb.d
Lab Smp Id: 583604 Client Smp ID: mb
Inj Date : 10-JUN-2011 05:39
Operator : rsw Inst ID: 50MSV5.i
Smp Info : mb
Misc Info : 33175
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 48 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	2.989	2.989	(0.792)	39766	60.4638	60.5
* 40 Fluorobenzene	96	3.774	3.773	(1.000)	130302	50.0000	
$ 49 Toluene-d8	98	5.704	5.703	(0.803)	142593	44.9979	45.0
* 59 Chlorobenzene-d5	117	7.105	7.105	(1.000)	123962	50.0000	
$ 70 4-Bromofluorobenzene	95	7.942	7.942	(1.118)	60468	54.4179	54.4
* 82 1,4-Dichlorobenzene-d4	152	8.627	8.622	(1.000)	73698	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: d03mb.d
Lab Smp Id: 583604
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33175

Calibration Date: 10-JUN-2011
Calibration Time: 04:25
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	174975	87488	349950	130302	-25.53
59 Chlorobenzene-d5	166975	83488	333950	123962	-25.76
82 1,4-Dichlorobenze	101237	50619	202474	73698	-27.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.77	0.01
59 Chlorobenzene-d5	7.11	6.61	7.61	7.11	0.01
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.63	0.07

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.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 583604
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33175

Client SDG: b060911.b
Fraction: VOA
Client Smp ID: mb
Operator: rsw
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	60.5	120.93	83-123
$ 49 Toluene-d8	50.0	45.0	90.00	81-114
$ 70 4-Bromofluorobenze	50.0	54.4	108.84	72-125

Pace Analytical Services, Inc.

TARGET COMPOUNDS

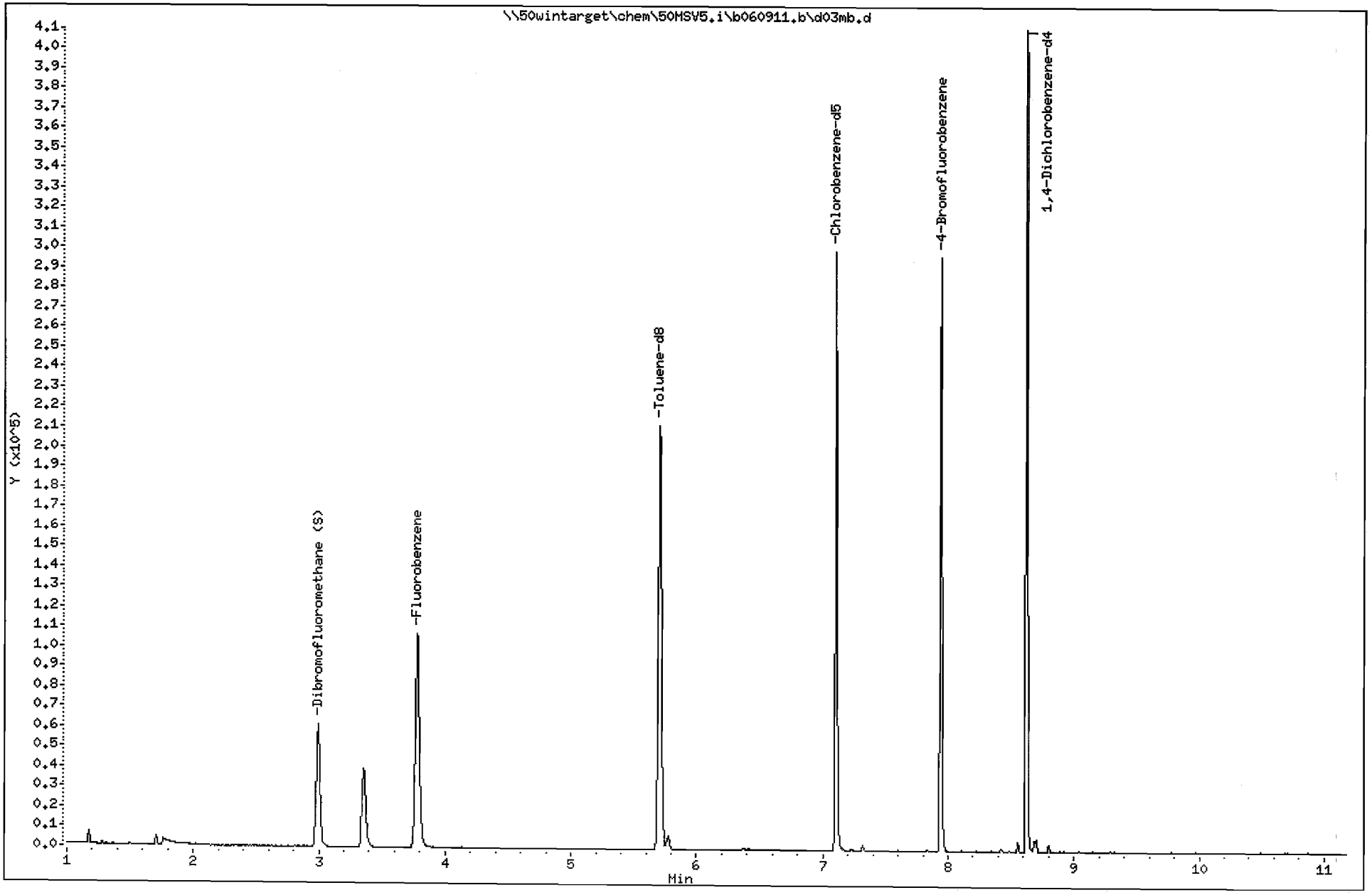
Client Name:
Lab Smp Id: 583604
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33175

Client SDG: b060911.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	60.5	
2037-26-5	Toluene-d8	45.0	
460-00-4	4-Bromofluorobenzene	54.4	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d03mb.d
Date : 10-JUN-2011 05:39
Client ID: mb
Sample Info: mb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d03mb.d

Date : 10-JUN-2011 05:39

Client ID: mb

Instrument: 50MSV5.i

Sample Info: mb

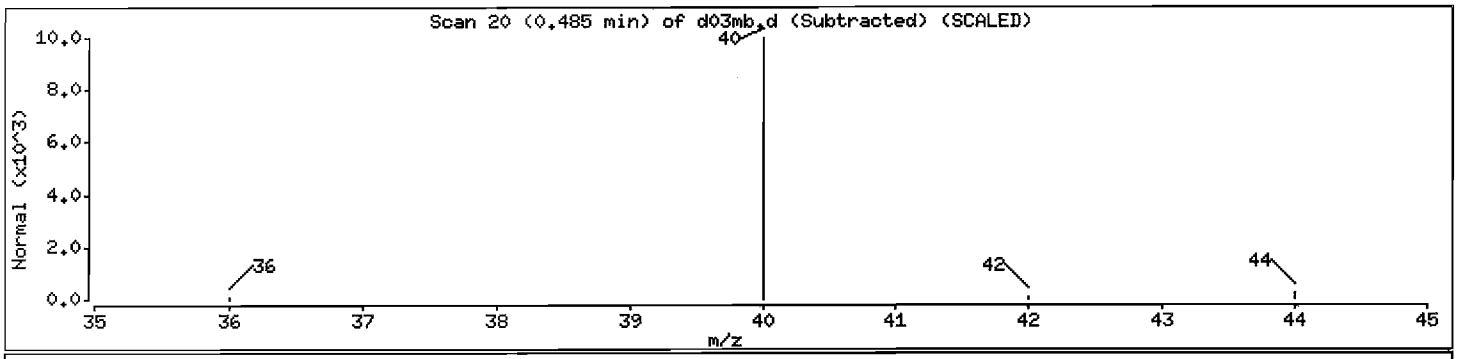
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\c03mb.d
Lab Smp Id: 584123 Client Smp ID: mb
Inj Date : 10-JUN-2011 21:14
Operator : rsw Inst ID: 50MSV1.i
Smp Info : mb
Misc Info : 33197
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 15-Jun-2011 18:03 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 17:43 Cal File: a08.d
Als bottle: 29 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.275	3.280	(0.794)	16093	47.0697	47.1
* 40 Fluorobenzene	96	4.122	4.122	(1.000)	74634	50.0000	
$ 49 Toluene-d8	98	5.979	5.979	(0.819)	72332	50.0838	50.1
* 59 Chlorobenzene-d5	117	7.297	7.302	(1.000)	62019	50.0000	
$ 70 4-Bromofluorobenzene	95	8.113	8.113	(1.112)	30338	50.9314	50.9
* 82 1,4-Dichlorobenzene-d4	152	8.798	8.793	(1.000)	33570	50.0000	
92 2,methyl-naphthalene	142	10.581	10.581	(1.203)	2372	2.52279	2.52

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: c03mb.d
Lab Smp Id: 584123
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info: 33197

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	72523	36262	145046	74634	2.91
59 Chlorobenzene-d5	63871	31936	127742	62019	-2.90
82 1,4-Dichlorobenze	31277	15639	62554	33570	7.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.00
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.07
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.06

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 584123
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info: 33197

Client SDG: a061011.b
Fraction: VOA
Client Smp ID: mb
Operator: rsw
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	47.1	94.14	80-123
$ 49 Toluene-d8	50.0	50.1	100.17	80-116
$ 70 4-Bromofluorobenze	50.0	50.9	101.86	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

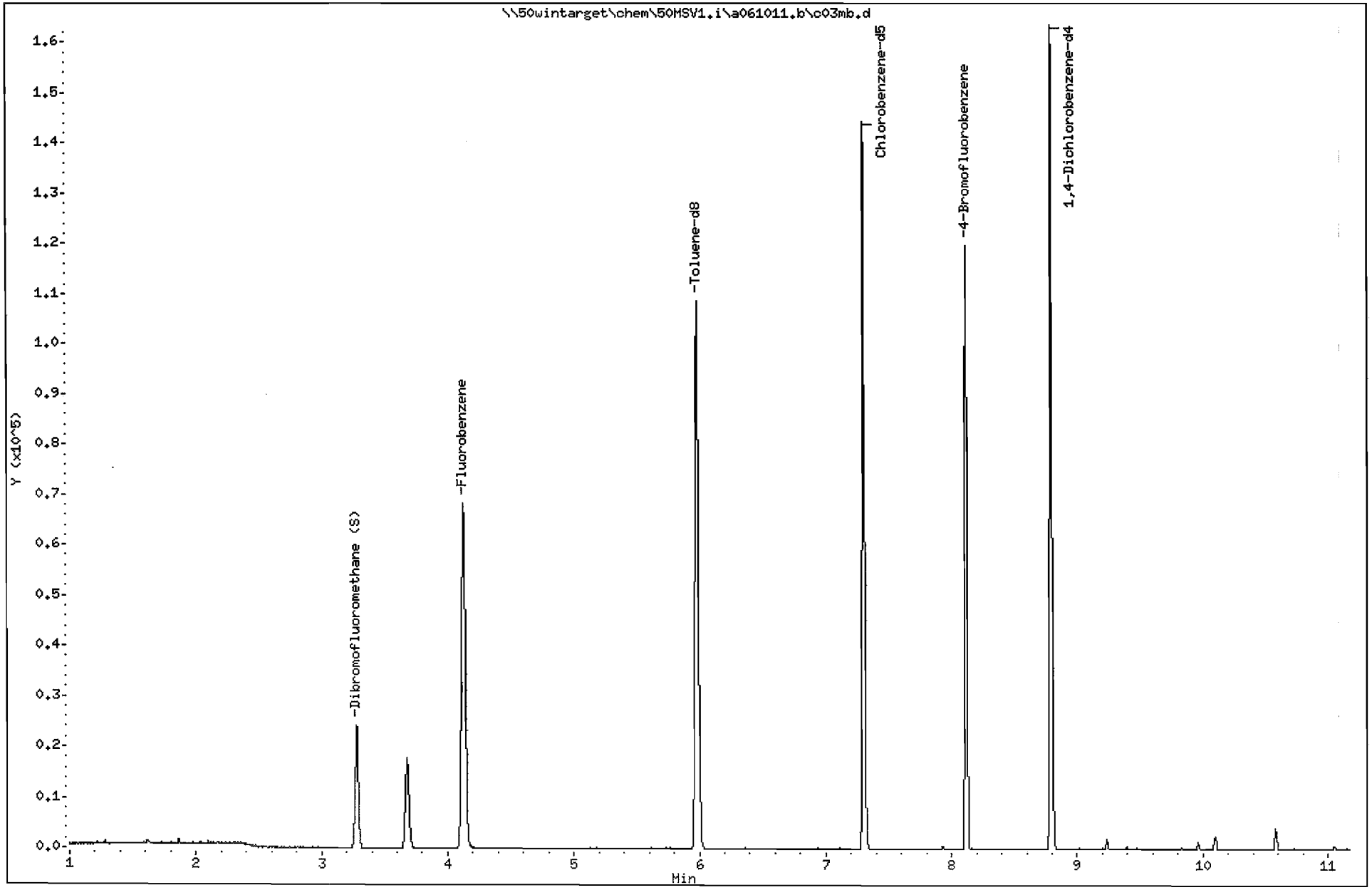
Client Name:
Lab Smp Id: 584123
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33197

Client SDG: a061011.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
	2,methyl-naphthalene	2.52	
1868-53-7	Dibromofluoromethane (S)	47.1	
2037-26-5	Toluene-d8	50.1	
460-00-4	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\c03mb.d
Date : 10-JUN-2011 21:14
Client ID: mb
Sample Info: mb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d03mb.d
Lab Smp Id: 584133 Client Smp ID: mb
Inj Date : 10-JUN-2011 21:31
Operator : rsw Inst ID: 50MSV1.i
Smp Info : mb
Misc Info : 33201
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.275	3.271	(0.794)	17888	49.8670	49.9
* 40 Fluorobenzene	96	4.122	4.118	(1.000)	79826	50.0000	
$ 49 Toluene-d8	98	5.973	5.975	(0.819)	81706	51.8673	51.9
* 59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	68143	50.0000	
$ 70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	33073	51.0076	51.0
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.794	(1.000)	37652	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d03mb.d
Lab Smp Id: 584133
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33201

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	79826	18.66
59 Chlorobenzene-d5	58912	29456	117824	68143	15.67
82 1,4-Dichlorobenze	28356	14178	56712	37652	32.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.09
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.02

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 584133
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33201

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: mb
Operator: rsw
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.9	99.73	82-122
$ 49 Toluene-d8	50.0	51.9	103.73	80-120
$ 70 4-Bromofluorobenze	50.0	51.0	102.02	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584133
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33201

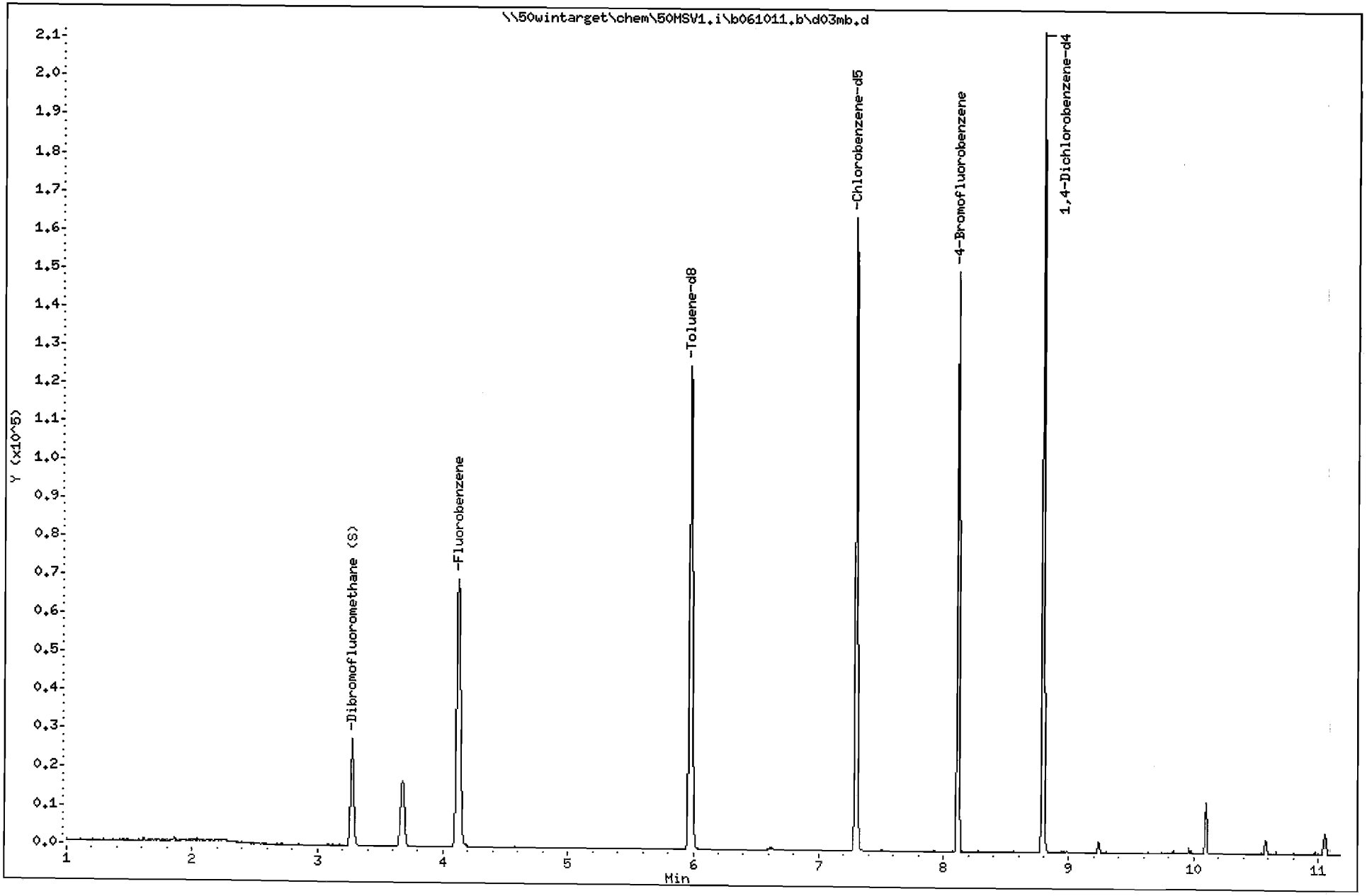
Client SDG: b061011.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	49.9	
2037-26-5	Toluene-d8	51.9	
460-00-4	4-Bromofluorobenzene	51.0	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d03mb.d
Date : 10-JUN-2011 21:31
Client ID: mb
Sample Info: mb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d03mb.d

Date : 10-JUN-2011 21:31

Client ID: mb

Instrument: 50MSV1.i

Sample Info: mb

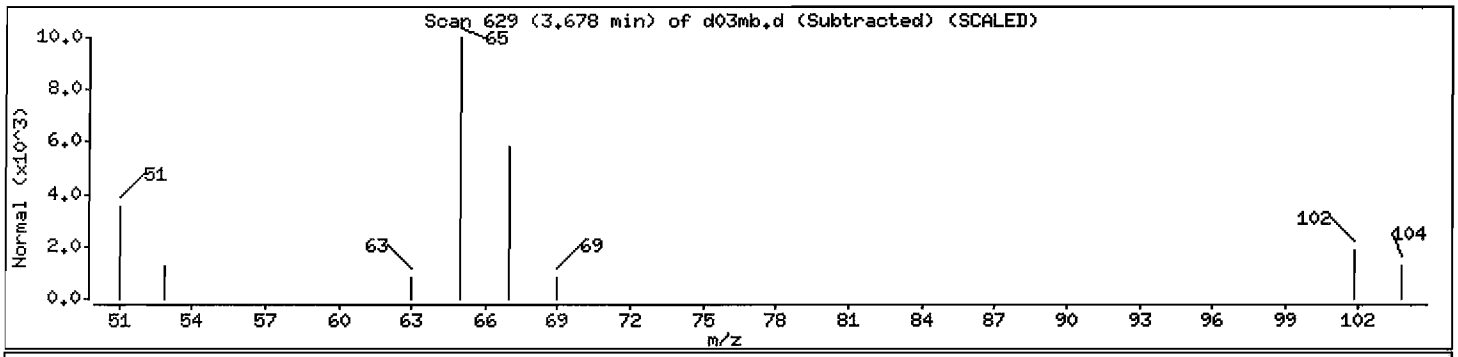
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 6: Client Sample Data

**** Client Sample Raw Data***
**** Dilutions or Reruns of Client Samples***
(Sample data should be in numerical order by Lab Number)

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\b08.d
Lab Smp Id: 5049277001 Client Smp ID: 5049277001
Inj Date : 09-JUN-2011 20:18
Operator : rsw Inst ID: 50MSV5.i
Smp Info : 5049277001
Misc Info : 33161
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	2.989	2.989	(0.791)	48555	56.3844	56.4
* 40 Fluorobenzene	96	3.779	3.773	(1.000)	170612	50.0000	
$ 49 Toluene-d8	98	5.704	5.703	(0.803)	182803	44.2156	44.2
* 59 Chlorobenzene-d5	117	7.106	7.105	(1.000)	161730	50.0000	
$ 70 4-Bromofluorobenzene	95	7.942	7.942	(1.118)	79537	54.8635	54.9
* 82 1,4-Dichlorobenzene-d4	152	8.622	8.622	(1.000)	97783	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: b08.d
Lab Smp Id: 5049277001
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33161

Calibration Date: 10-JUN-2011
Calibration Time: 04:25
Client Smp ID: 5049277001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	174975	87488	349950	170612	-2.49
59 Chlorobenzene-d5	166975	83488	333950	161730	-3.14
82 1,4-Dichlorobenze	101237	50619	202474	97783	-3.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.78	0.15
59 Chlorobenzene-d5	7.11	6.61	7.61	7.11	0.01
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	0.01

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049277001
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33161

Client SDG: b060911.b
Fraction: VOA
Client Smp ID: 5049277001
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	56.4	112.77	83-123
$ 49 Toluene-d8	50.0	44.2	88.43	81-114
$ 70 4-Bromofluorobenze	50.0	54.9	109.73	72-125

Pace Analytical Services, Inc.

TARGET COMPOUNDS

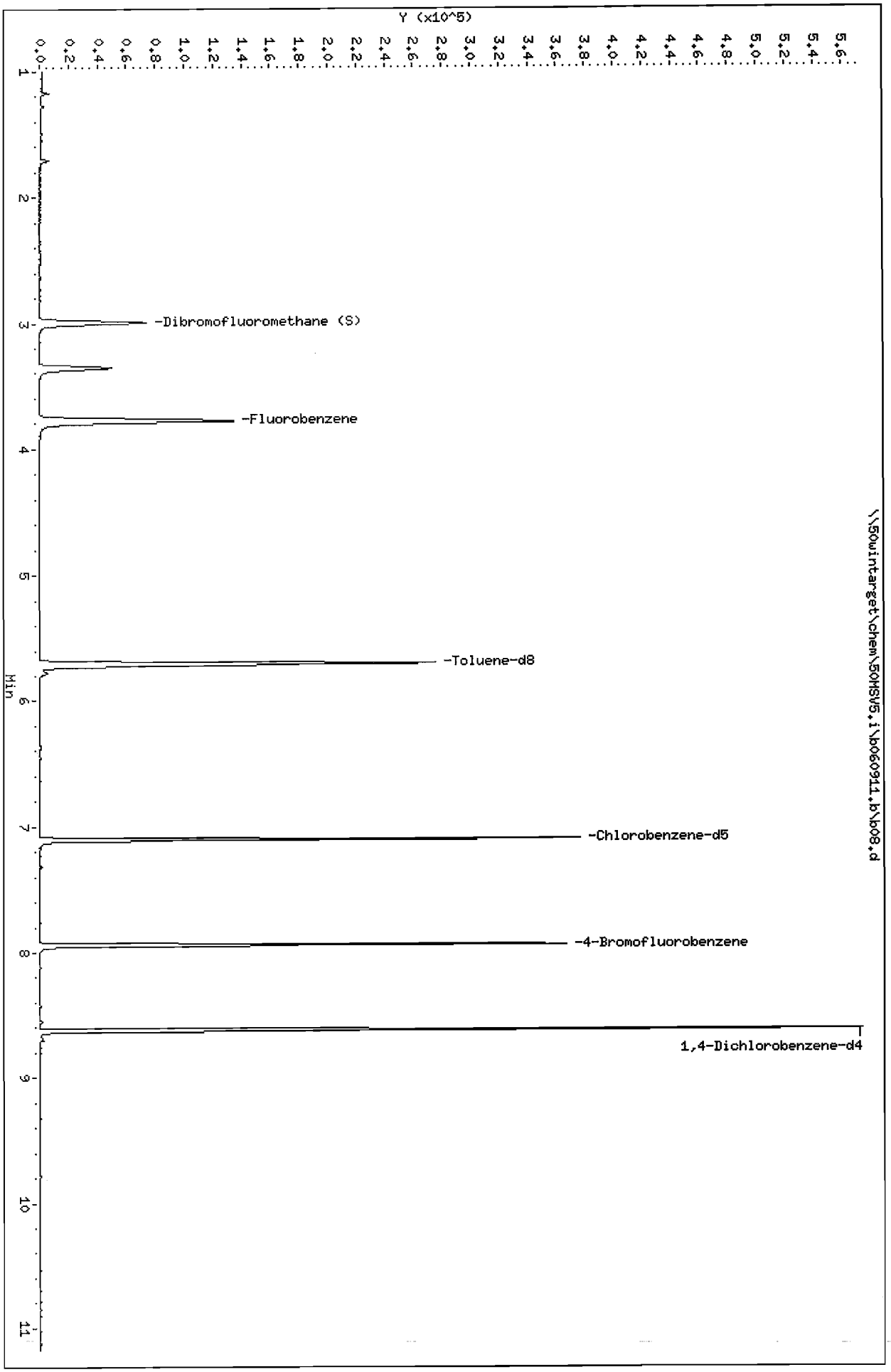
Client Name:
Lab Smp Id: 5049277001
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33161

Client SDG: b060911.b
Client Smp ID: 5049277001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	56.4	
2037-26-5	Toluene-d8	44.2	
460-00-4	4-Bromofluorobenzene	54.9	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b08.d
Date : 09-JUN-2011 20:18
Client ID: 5049277001
Sample Info: 5049277001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\b08.d

Date : 09-JUN-2011 20:18

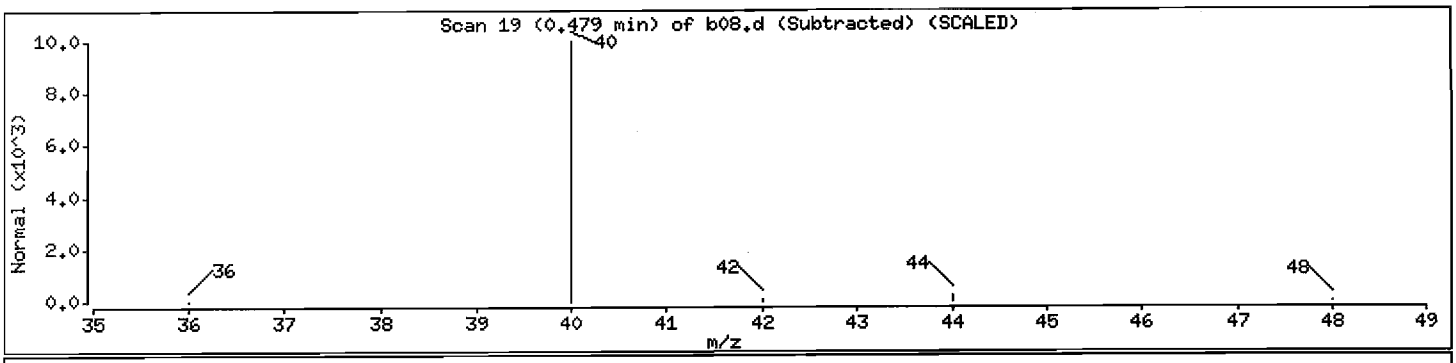
Client ID: 5049277001 Instrument: 50MSV5.i

Sample Info: 5049277001

Purge Volume: 5.0 Operator: rsw

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d04.d
Lab Smp Id: 5049277002 Client Smp ID: 5049277002
Inj Date : 10-JUN-2011 22:06
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5049277002
Misc Info : 33200
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.272	3.271	(0.794)	17763	53.4873	53.5
* 40 Fluorobenzene	96	4.119	4.118	(1.000)	73903	50.0000	
$ 49 Toluene-d8	98	5.976	5.975	(0.819)	74927	48.9704	49.0
* 59 Chlorobenzene-d5	117	7.299	7.298	(1.000)	66186	50.0000	
$ 70 4-Bromofluorobenzene	95	8.109	8.114	(1.111)	33034	52.4539	52.4
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.794	(1.000)	36706	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d04.d
Lab Smp Id: 5049277002
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 5049277002
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	73903	9.85
59 Chlorobenzene-d5	58912	29456	117824	66186	12.35
82 1,4-Dichlorobenze	28356	14178	56712	36706	29.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.01
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.01

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049277002
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: 5049277002
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	53.5	106.97	82-122
$ 49 Toluene-d8	50.0	49.0	97.94	80-120
$ 70 4-Bromofluorobenze	50.0	52.4	104.91	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5049277002
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

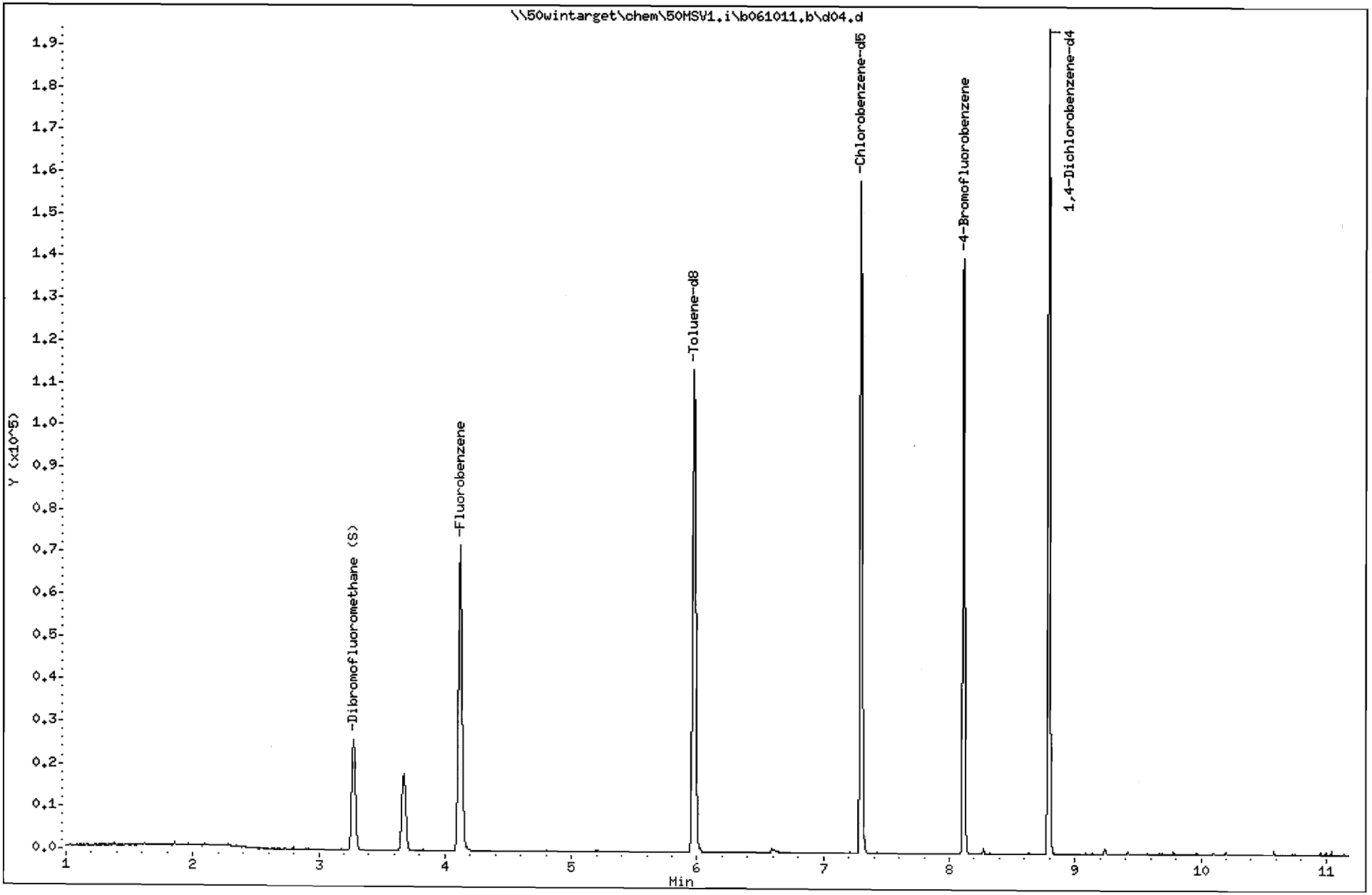
Client SDG: b061011.b
Client Smp ID: 5049277002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	53.5	
2037-26-5	Toluene-d8	49.0	
460-00-4	4-Bromofluorobenzene	52.4	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d04.d
Date : 10-JUN-2011 22:06
Client ID: 5049277002
Sample Info: 5049277002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d04.d

Date : 10-JUN-2011 22:06

Client ID: 5049277002

Instrument: 50MSV1.i

Sample Info: 5049277002

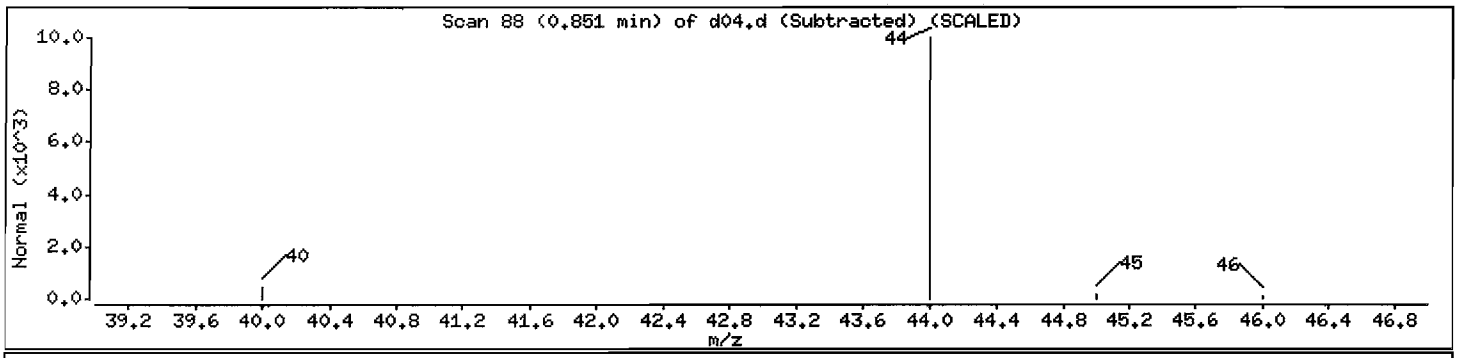
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\a061011.b\c20.d
Lab Smp Id: 5049277003 Client Smp ID: 5049277003
Inj Date : 11-JUN-2011 07:43
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5049277003
Misc Info : 33199
Comment :
Method : \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Meth Date : 15-Jun-2011 18:03 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 17:43 Cal File: a08.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.275	3.280	(0.794)	19841	49.0589	49.0
* 40 Fluorobenzene	96	4.122	4.122	(1.000)	88285	50.0000	
$ 49 Toluene-d8	98	5.979	5.979	(0.819)	90488	52.9281	52.9
* 59 Chlorobenzene-d5	117	7.297	7.302	(1.000)	73417	50.0000	
$ 70 4-Bromofluorobenzene	95	8.112	8.113	(1.112)	36746	52.1119	52.1
* 82 1,4-Dichlorobenzene-d4	152	8.798	8.793	(1.000)	38755	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: c20.d
Lab Smp Id: 5049277003
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info: 33199

Calibration Date: 10-JUN-2011
Calibration Time: 20:05
Client Smp ID: 5049277003
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	72523	36262	145046	88285	21.73
59 Chlorobenzene-d5	63871	31936	127742	73417	14.95
82 1,4-Dichlorobenze	31277	15639	62554	38755	23.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.07
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.06

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049277003
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\a061011.b\-a8260_a_b.m
Misc Info: 33199

Client SDG: a061011.b
Fraction: VOA
Client Smp ID: 5049277003
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.0	98.12	80-123
$ 49 Toluene-d8	50.0	52.9	105.86	80-116
$ 70 4-Bromofluorobenze	50.0	52.1	104.22	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

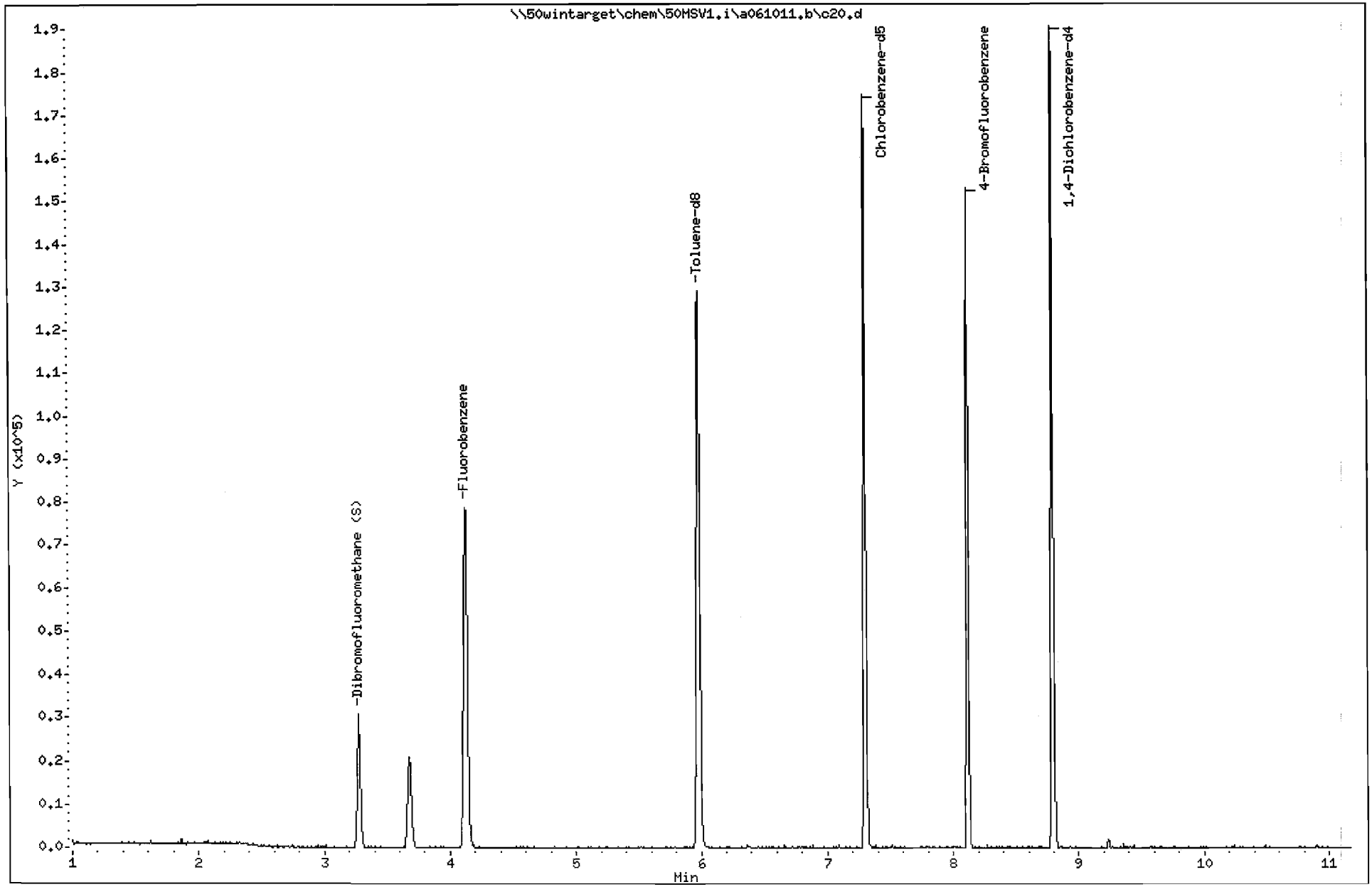
Client Name:
Lab Smp Id: 5049277003
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33199

Client SDG: a061011.b
Client Smp ID: 5049277003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	49.0	
2037-26-5	Toluene-d8	52.9	
460-00-4	4-Bromofluorobenzene	52.1	

Data File: \\50wintarget\chem\50MSV1.i\a061011.b\c20.d
Date : 11-JUN-2011 07:43
Client ID: 5049277003
Sample Info: 5049277003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\d08.d
Lab Smp Id: 5049277004 Client Smp ID: 5049277004
Inj Date : 10-JUN-2011 08:45
Operator : rsw Inst ID: 50MSV5.i
Smp Info : 5049277004
Misc Info : 33174
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	2.989	2.989	(0.792)	47111	54.7650	54.8
* 40 Fluorobenzene	96	3.774	3.773	(1.000)	170433	50.0000	
$ 49 Toluene-d8	98	5.704	5.703	(0.803)	177674	44.6348	44.6
* 59 Chlorobenzene-d5	117	7.100	7.105	(1.000)	155716	50.0000	
$ 70 4-Bromofluorobenzene	95	7.937	7.942	(1.118)	76965	55.1398	55.1
* 82 1,4-Dichlorobenzene-d4	152	8.622	8.622	(1.000)	92718	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: d08.d
Lab Smp Id: 5049277004
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33174

Calibration Date: 10-JUN-2011
Calibration Time: 04:25
Client Smp ID: 5049277004
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	174975	87488	349950	170433	-2.60
59 Chlorobenzene-d5	166975	83488	333950	155716	-6.74
82 1,4-Dichlorobenze	101237	50619	202474	92718	-8.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.77	0.01
59 Chlorobenzene-d5	7.11	6.61	7.61	7.10	-0.07
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049277004
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33174

Client SDG: b060911.b
Fraction: VOA
Client Smp ID: 5049277004
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	54.8	109.53	83-123
$ 49 Toluene-d8	50.0	44.6	89.27	81-114
$ 70 4-Bromofluorobenze	50.0	55.1	110.28	72-125

Pace Analytical Services, Inc.

TARGET COMPOUNDS

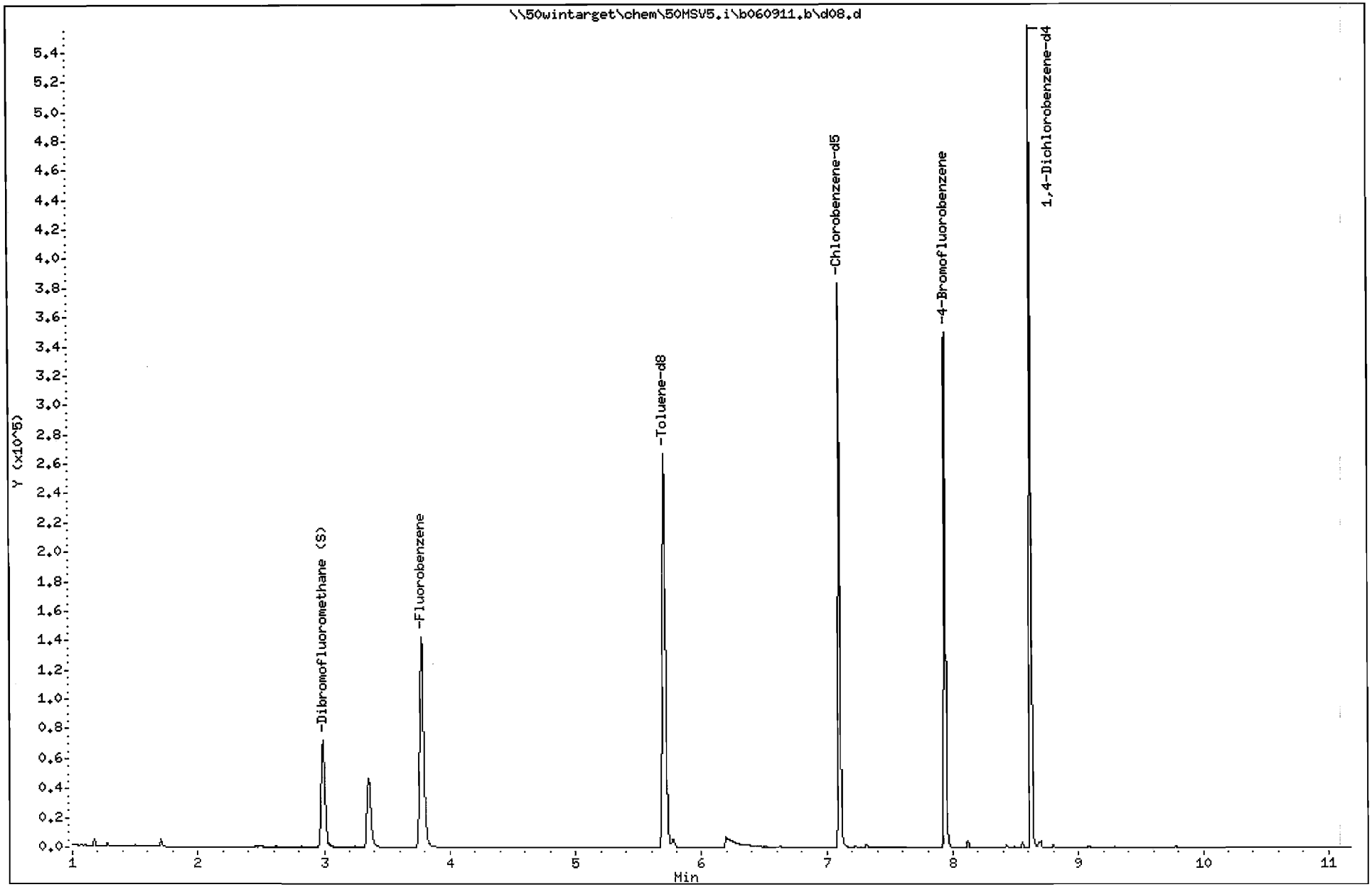
Client Name:
Lab Smp Id: 5049277004
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33174

Client SDG: b060911.b
Client Smp ID: 5049277004
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	54.8	
2037-26-5	Toluene-d8	44.6	
460-00-4	4-Bromofluorobenzene	55.1	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d08.d
Date : 10-JUN-2011 08:45
Client ID: 5049277004
Sample Info: 5049277004
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d08.d

Date : 10-JUN-2011 08:45

Client ID: 5049277004

Instrument: 50MSV5.i

Sample Info: 5049277004

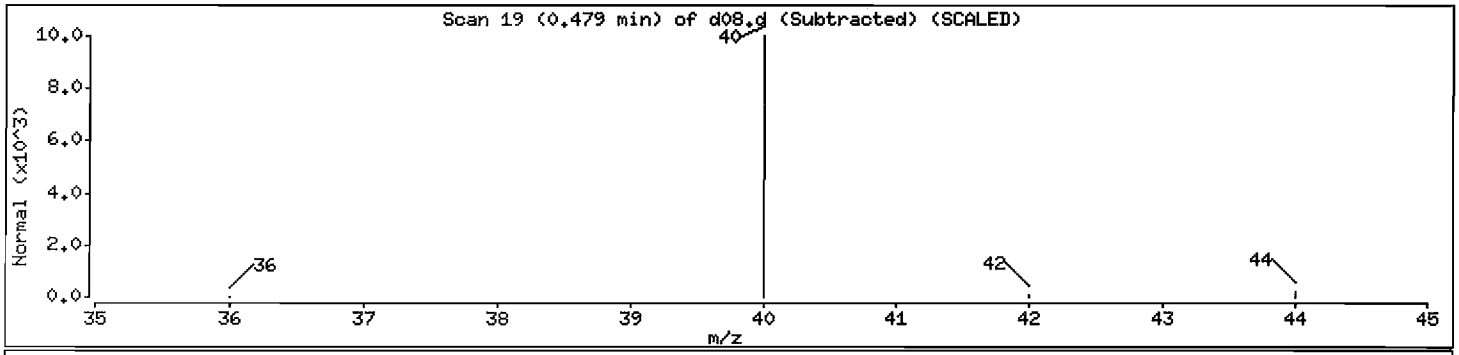
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV5.i\b060911.b\d09.d
Lab Smp Id: 5049277005 Client Smp ID: 5049277005
Inj Date : 10-JUN-2011 09:22
Operator : rsw Inst ID: 50MSV5.i
Smp Info : 5049277005
Misc Info : 33174
Comment :
Method : \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:02 rwrede Quant Type: ISTD
Cal Date : 02-JUN-2011 19:04 Cal File: b08cal.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	2.989	2.989	(0.792)	43277	54.8105	54.8
* 40 Fluorobenzene	96	3.774	3.773	(1.000)	156433	50.0000	
$ 49 Toluene-d8	98	5.704	5.703	(0.803)	162565	44.8388	44.8
* 59 Chlorobenzene-d5	117	7.100	7.105	(1.000)	141826	50.0000	
$ 70 4-Bromofluorobenzene	95	7.937	7.942	(1.118)	69331	54.5351	54.5
* 82 1,4-Dichlorobenzene-d4	152	8.622	8.622	(1.000)	82713	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV5.i
Lab File ID: d09.d
Lab Smp Id: 5049277005
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33174

Calibration Date: 10-JUN-2011
Calibration Time: 04:25
Client Smp ID: 5049277005
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	174975	87488	349950	156433	-10.60
59 Chlorobenzene-d5	166975	83488	333950	141826	-15.06
82 1,4-Dichlorobenze	101237	50619	202474	82713	-18.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	3.77	3.27	4.27	3.77	0.01
59 Chlorobenzene-d5	7.11	6.61	7.61	7.10	-0.07
82 1,4-Dichlorobenze	8.62	8.12	9.12	8.62	0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049277005
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV5.i\b060911.b\-b8260_a_b.m
Misc Info: 33174

Client SDG: b060911.b
Fraction: VOA
Client Smp ID: 5049277005
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	54.8	109.62	83-123
$ 49 Toluene-d8	50.0	44.8	89.68	81-114
$ 70 4-Bromofluorobenze	50.0	54.5	109.07	72-125

Pace Analytical Services, Inc.

TARGET COMPOUNDS

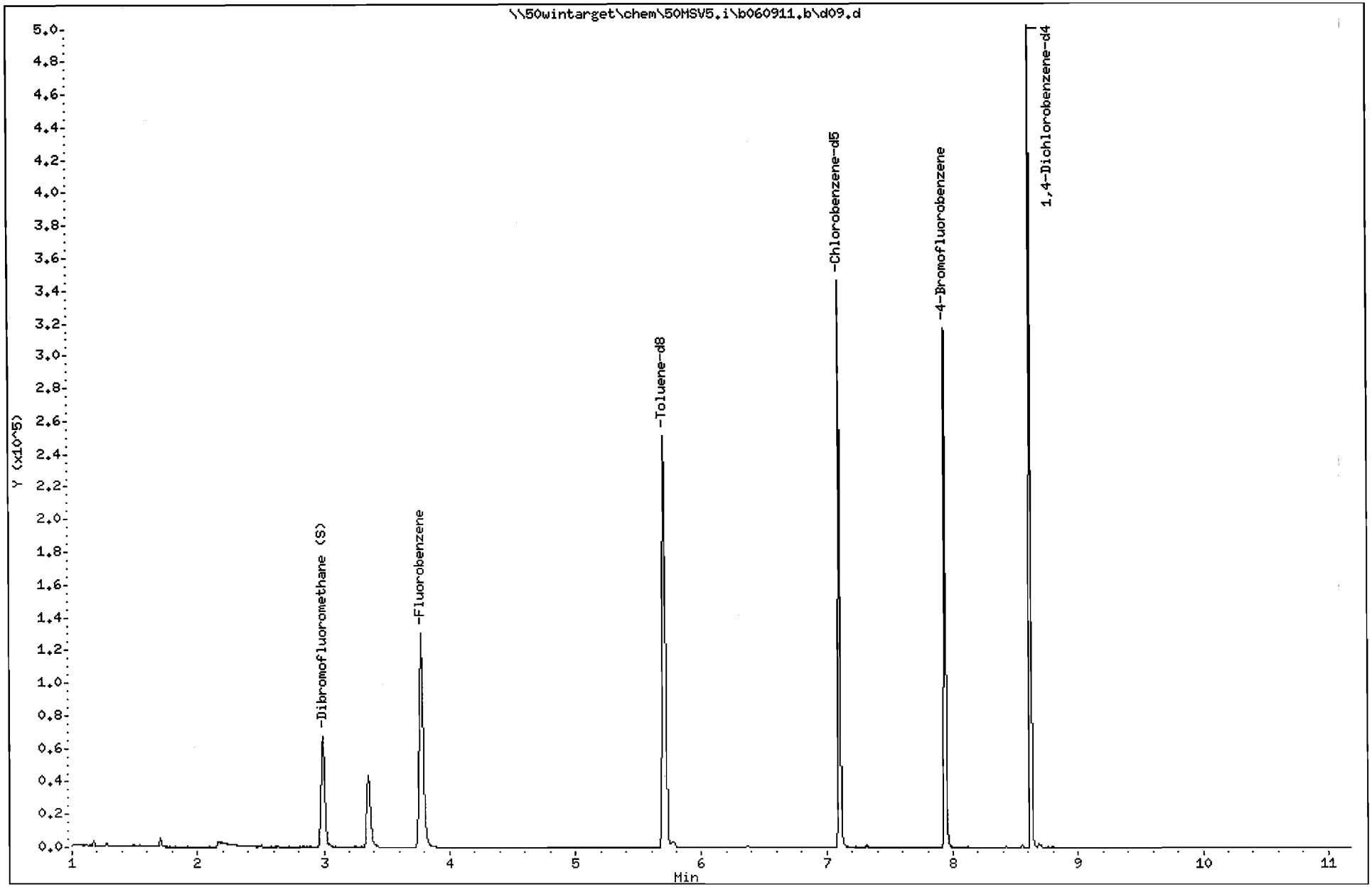
Client Name:
Lab Smp Id: 5049277005
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33174

Client SDG: b060911.b
Client Smp ID: 5049277005
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	54.8	
2037-26-5	Toluene-d8	44.8	
460-00-4	4-Bromofluorobenzene	54.5	

Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d09.d
Date : 10-JUN-2011 09:22
Client ID: 5049277005
Sample Info: 5049277005
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV5.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV5.i\b060911.b\d09.d

Date : 10-JUN-2011 09:22

Client ID: 5049277005

Instrument: 50MSV5.i

Sample Info: 5049277005

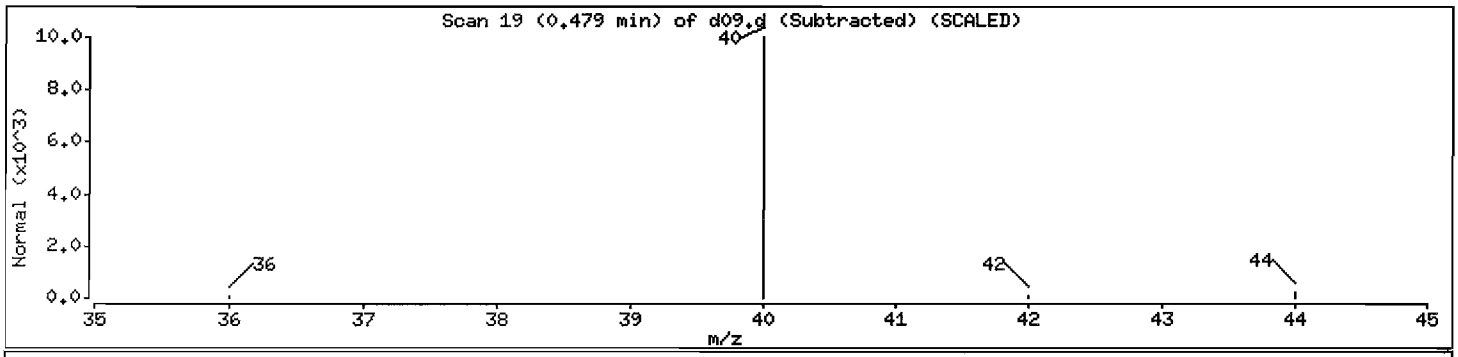
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d07.d
Lab Smp Id: 5049277006 Client Smp ID: 5049277006
Inj Date : 10-JUN-2011 23:50
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5049277006
Misc Info : 33200
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.270	3.271	(0.794)	18151	48.4702	48.5
* 40 Fluorobenzene	96	4.118	4.118	(1.000)	83334	50.0000	
$ 49 Toluene-d8	98	5.974	5.975	(0.819)	81310	51.2415	51.2
* 59 Chlorobenzene-d5	117	7.298	7.298	(1.000)	68641	50.0000	
$ 70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	33912	51.9222	51.9
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.794	(1.000)	36319	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d07.d
Lab Smp Id: 5049277006
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 5049277006
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	83334	23.87
59 Chlorobenzene-d5	58912	29456	117824	68641	16.51
82 1,4-Dichlorobenze	28356	14178	56712	36319	28.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.02
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.01
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.01

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049277006
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: 5049277006
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	48.5	96.94	82-122
$ 49 Toluene-d8	50.0	51.2	102.48	80-120
$ 70 4-Bromofluorobenze	50.0	51.9	103.84	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

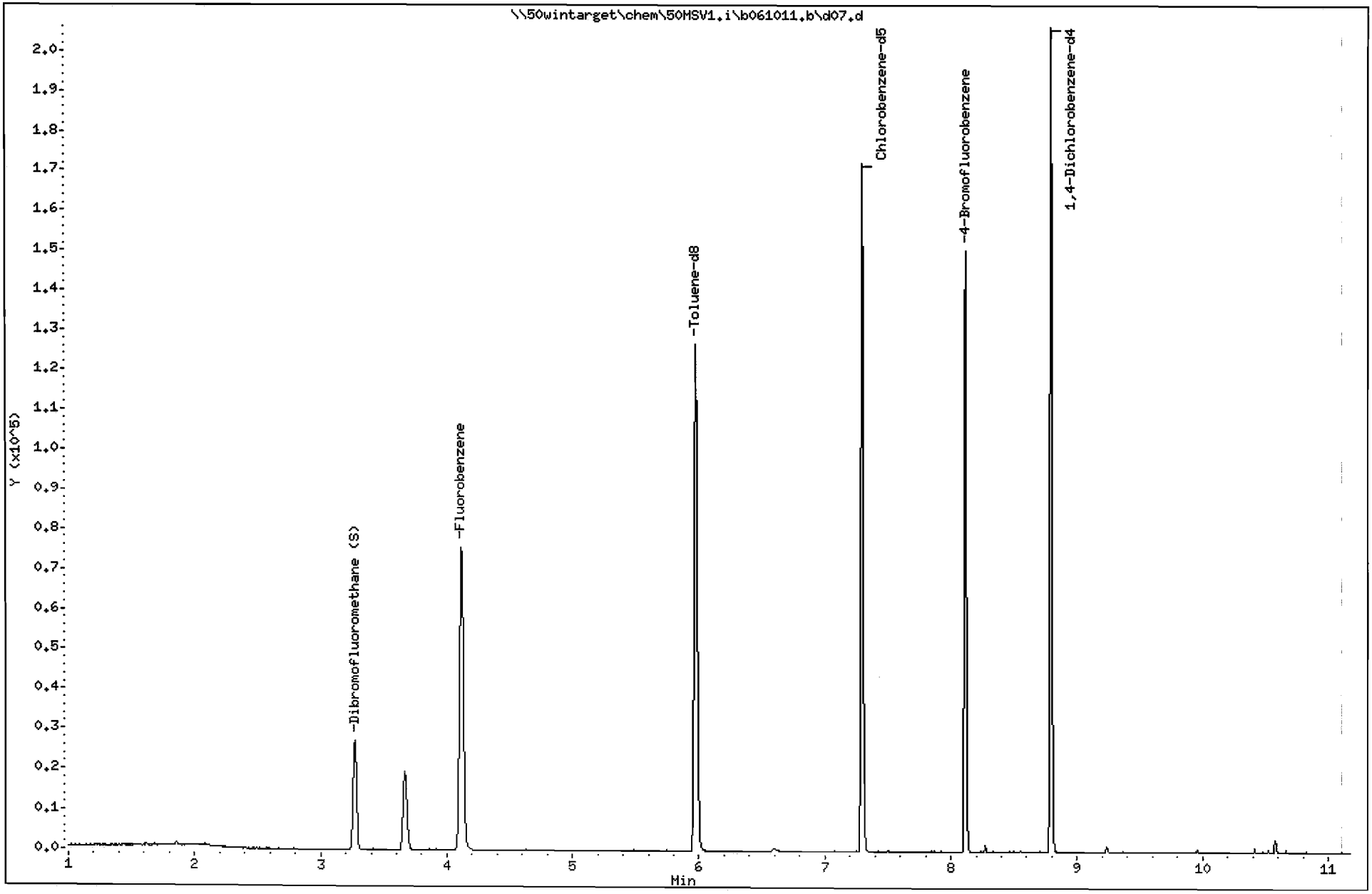
Client Name:
Lab Smp Id: 5049277006
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

Client SDG: b061011.b
Client Smp ID: 5049277006
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	48.5	
2037-26-5	Toluene-d8	51.2	
460-00-4	4-Bromofluorobenzene	51.9	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d07.d
Date : 10-JUN-2011 23:50
Client ID: 5049277006
Sample Info: 5049277006
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d07.d

Date : 10-JUN-2011 23:50

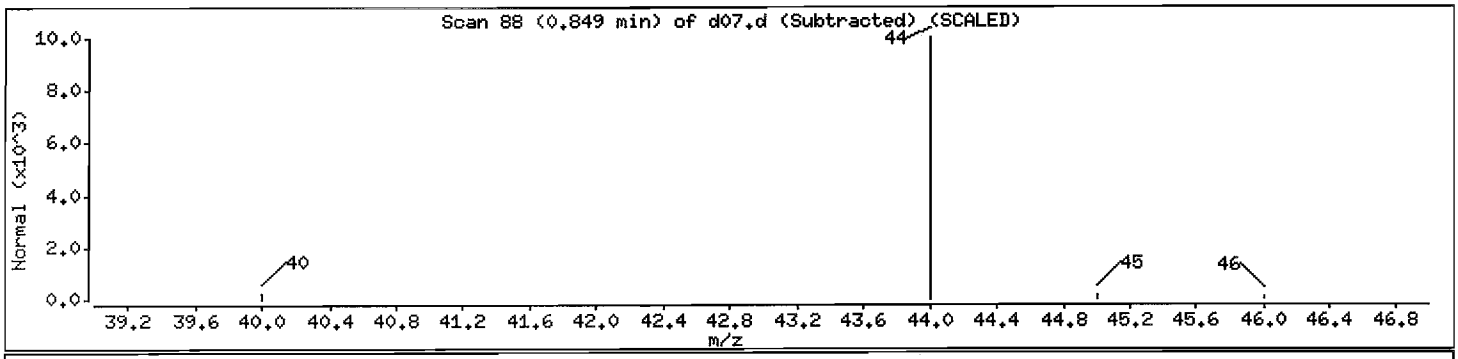
Client ID: 5049277006 Instrument: 50MSV1.i

Sample Info: 5049277006

Purge Volume: 5.0 Operator: rsw

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d08.d
Lab Smp Id: 5049277007 Client Smp ID: 5049277007
Inj Date : 11-JUN-2011 00:25
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5049277007
Misc Info : 33200
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.273	3.271	(0.794)	17983	49.4285	49.4
* 40 Fluorobenzene	96	4.120	4.118	(1.000)	80962	50.0000	
$ 49 Toluene-d8	98	5.977	5.975	(0.819)	83397	51.9999	52.0
* 59 Chlorobenzene-d5	117	7.300	7.298	(1.000)	69376	50.0000	
$ 70 4-Bromofluorobenzene	95	8.111	8.114	(1.111)	32292	48.9180	48.9
* 82 1,4-Dichlorobenzene-d4	152	8.796	8.794	(1.000)	35119	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d08.d
Lab Smp Id: 5049277007
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 5049277007
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	80962	20.35
59 Chlorobenzene-d5	58912	29456	117824	69376	17.76
82 1,4-Dichlorobenze	28356	14178	56712	35119	23.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.05
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.02

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049277007
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: 5049277007
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.4	98.86	82-122
$ 49 Toluene-d8	50.0	52.0	104.00	80-120
$ 70 4-Bromofluorobenze	50.0	48.9	97.84	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5049277007
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

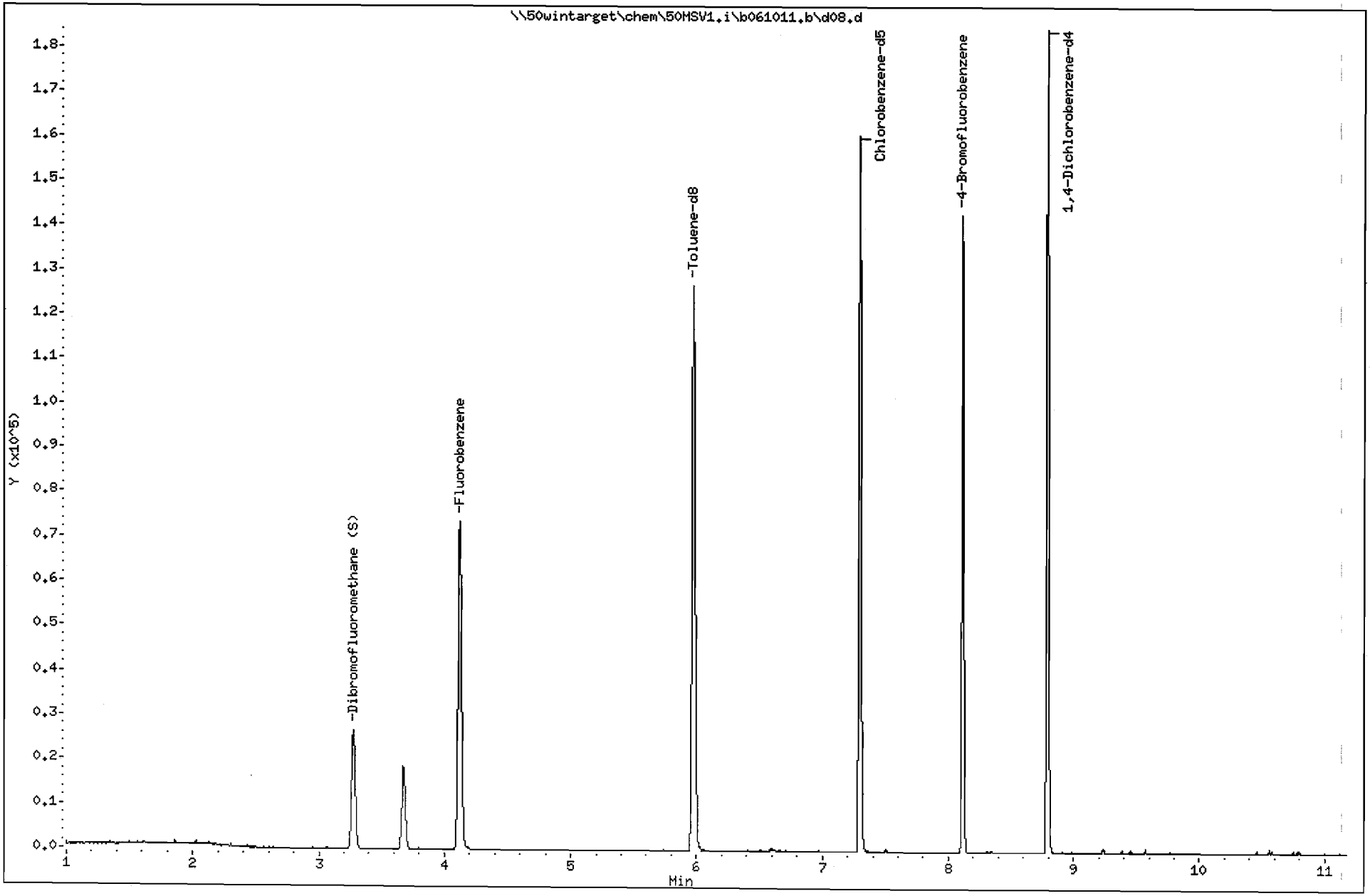
Client SDG: b061011.b
Client Smp ID: 5049277007
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	49.4	
2037-26-5	Toluene-d8	52.0	
460-00-4	4-Bromofluorobenzene	48.9	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d08.d
Date : 11-JUN-2011 00:25
Client ID: 5049277007
Sample Info: 5049277007
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d08.d

Date : 11-JUN-2011 00:25

Client ID: 5049277007

Instrument: 50MSV1.i

Sample Info: 5049277007

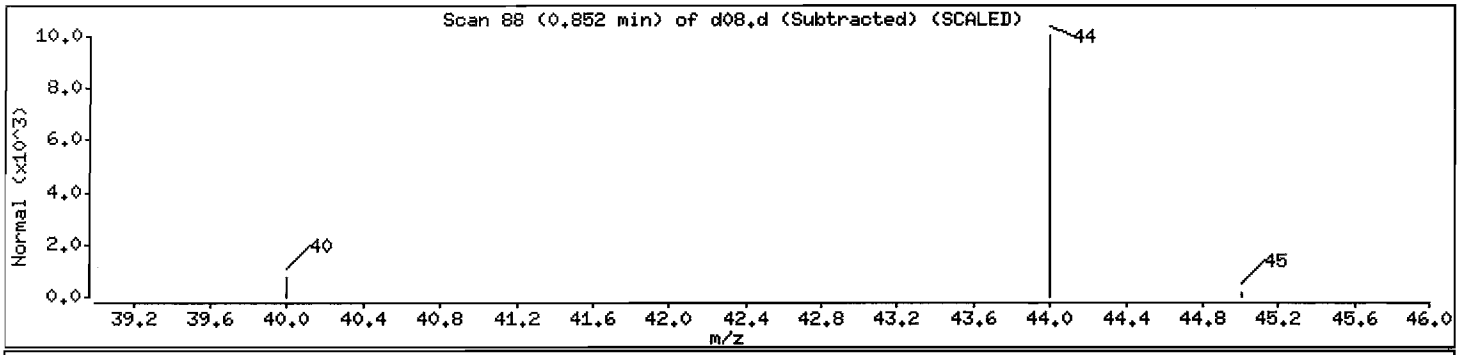
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b061011.b\d09.d
Lab Smp Id: 5049277008 Client Smp ID: 5049277008
Inj Date : 11-JUN-2011 00:58
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5049277008
Misc Info : 33200
Comment :
Method : \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Meth Date : 15-Jun-2011 18:04 rwrede Quant Type: ISTD
Cal Date : 10-JUN-2011 18:03 Cal File: b08.d
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.272	3.271	(0.794)	17568	49.5938	49.6
* 40 Fluorobenzene	96	4.120	4.118	(1.000)	78830	50.0000	
$ 49 Toluene-d8	98	5.976	5.975	(0.819)	77875	50.6400	50.6
* 59 Chlorobenzene-d5	117	7.300	7.298	(1.000)	66522	50.0000	
$ 70 4-Bromofluorobenzene	95	8.110	8.114	(1.111)	31498	49.7623	49.8
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.794	(1.000)	35498	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d09.d
Lab Smp Id: 5049277008
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Calibration Date: 10-JUN-2011
Calibration Time: 20:23
Client Smp ID: 5049277008
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	67274	33637	134548	78830	17.18
59 Chlorobenzene-d5	58912	29456	117824	66522	12.92
82 1,4-Dichlorobenze	28356	14178	56712	35498	25.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.03
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.02

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049277008
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b061011.b\-b8260_a_b.m
Misc Info: 33200

Client SDG: b061011.b
Fraction: VOA
Client Smp ID: 5049277008
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.6	99.19	82-122
$ 49 Toluene-d8	50.0	50.6	101.28	80-120
$ 70 4-Bromofluorobenze	50.0	49.8	99.52	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5049277008
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33200

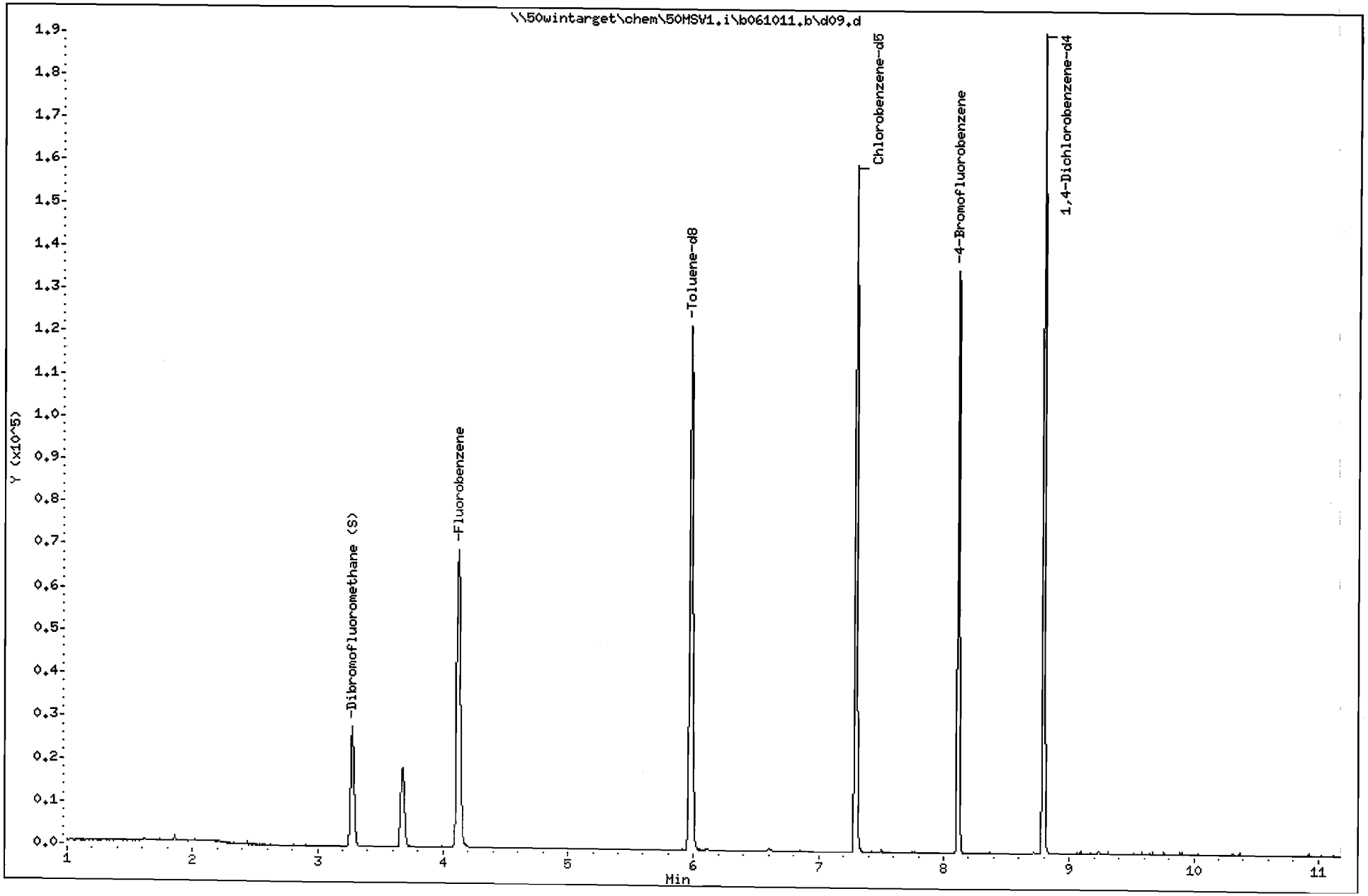
Client SDG: b061011.b
Client Smp ID: 5049277008
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	49.6	
2037-26-5	Toluene-d8	50.6	
460-00-4	4-Bromofluorobenzene	49.8	

Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d09.d
Date : 11-JUN-2011 00:58
Client ID: 5049277008
Sample Info: 5049277008
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b061011.b\d09.d

Date : 11-JUN-2011 00:58

Client ID: 5049277008

Instrument: 50MSV1.i

Sample Info: 5049277008

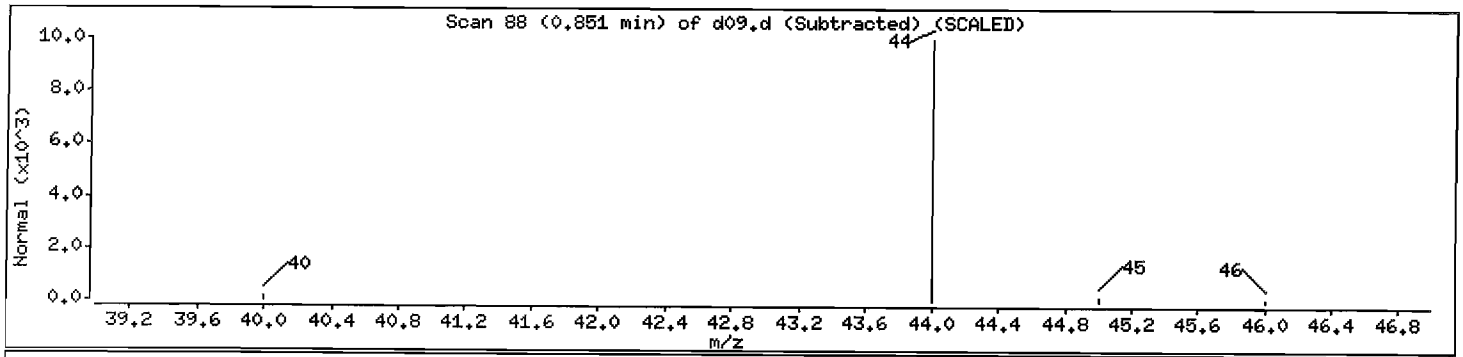
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

June 14, 2011

Ms. Susan Scrocchi
Conestoga-Rovers and Associates
2055 Niagara Falls Blvd
Suite 2
Niagara Falls, NY 14304

RE: Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Dear Ms. Scrocchi:
Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

June 17, 2011

Case Narrative- Level Project Review
Project 5049649 (Conestoga-Rovers and Associates)

General Reporting Comments

Quality control issues or reported footnotes that require more detailed information will be covered in this case narrative. Dilutions of samples are indicated in the sample results section under the heading 'DF'. The raw sample and calibration data is included following the body of the report. This raw data is separated by analysis and then further separated into categories of information.

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

GC/MS Volatiles- Method 8260

Compounds with the N2 footnote indicate the laboratory does not hold NELAC accreditation for that compound. All quality control indicators for this project (Method Blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the report or documented within the raw data.

Theresa L Sheingold

Theresa Sheingold
Quality Analyst
Pace Analytical Services

The review of this project and the associated case narrative are part of a review process for final reports that require a complete set of data deliverables. This process is completed by a member of the Quality Department as part of Pace Analytical's Indiana state requirements.

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5049649001	**TB-1 (061311)-TK**	Water	06/13/11 10:30	06/13/11 15:38
5049649002	**MW-1103-S3/4 (061311)**	Water	06/13/11 11:45	06/13/11 15:38
5049649003	**MW-1102-S4 (061311)**	Water	06/13/11 13:30	06/13/11 15:38
5049649004	**MW-1105-S3/4 (061311)**	Water	06/13/11 14:50	06/13/11 15:38

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5049649001	**TB-1 (061311)-TK**	EPA 8260	GRM	51
5049649002	**MW-1103-S3/4 (061311)**	EPA 8260	GRM	51
5049649003	**MW-1102-S4 (061311)**	EPA 8260	GRM	51
5049649004	**MW-1105-S3/4 (061311)**	EPA 8260	GRM	51

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Sample: TB-1 (061311)-TK **Lab ID: 5049649001** Collected: 06/13/11 10:30 Received: 06/13/11 15:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/13/11 18:20	67-64-1	
Benzene	ND	ug/L	5.0	1		06/13/11 18:20	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/13/11 18:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/13/11 18:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/13/11 18:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/13/11 18:20	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/13/11 18:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/13/11 18:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/13/11 18:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/13/11 18:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/13/11 18:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/13/11 18:20	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/13/11 18:20	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/13/11 18:20	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/13/11 18:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/13/11 18:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 18:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 18:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 18:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/13/11 18:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/13/11 18:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/13/11 18:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/13/11 18:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/13/11 18:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/13/11 18:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/13/11 18:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/13/11 18:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/13/11 18:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/13/11 18:20	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/13/11 18:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/13/11 18:20	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/13/11 18:20	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/13/11 18:20	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/13/11 18:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/13/11 18:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/13/11 18:20	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/13/11 18:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/13/11 18:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/13/11 18:20	127-18-4	
Toluene	ND	ug/L	5.0	1		06/13/11 18:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/13/11 18:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/13/11 18:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/13/11 18:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/13/11 18:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/13/11 18:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/13/11 18:20	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/13/11 18:20	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Sample: TB-1 (061311)-TK **Lab ID: 5049649001** Collected: 06/13/11 10:30 Received: 06/13/11 15:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/13/11 18:20	1330-20-7	
Dibromofluoromethane (S)	103	%	83-123	1		06/13/11 18:20	1868-53-7	
4-Bromofluorobenzene (S)	96	%	72-125	1		06/13/11 18:20	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		06/13/11 18:20	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Sample: MW-1103-S3/4 (061311) **Lab ID: 5049649002** Collected: 06/13/11 11:45 Received: 06/13/11 15:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/13/11 18:53	67-64-1	
Benzene	ND	ug/L	5.0	1		06/13/11 18:53	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/13/11 18:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/13/11 18:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/13/11 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/13/11 18:53	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/13/11 18:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/13/11 18:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/13/11 18:53	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/13/11 18:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/13/11 18:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/13/11 18:53	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/13/11 18:53	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/13/11 18:53	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/13/11 18:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/13/11 18:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 18:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 18:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 18:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/13/11 18:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/13/11 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/13/11 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/13/11 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/13/11 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/13/11 18:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/13/11 18:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/13/11 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/13/11 18:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/13/11 18:53	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/13/11 18:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/13/11 18:53	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/13/11 18:53	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/13/11 18:53	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/13/11 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/13/11 18:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/13/11 18:53	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/13/11 18:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/13/11 18:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/13/11 18:53	127-18-4	
Toluene	ND	ug/L	5.0	1		06/13/11 18:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/13/11 18:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/13/11 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/13/11 18:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/13/11 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/13/11 18:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/13/11 18:53	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/13/11 18:53	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Sample: MW-1103-S3/4 (061311) **Lab ID: 5049649002** Collected: 06/13/11 11:45 Received: 06/13/11 15:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/13/11 18:53	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		06/13/11 18:53	1868-53-7	
4-Bromofluorobenzene (S)	95	%	72-125	1		06/13/11 18:53	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		06/13/11 18:53	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Sample: MW-1102-S4 (061311) **Lab ID: 5049649003** Collected: 06/13/11 13:30 Received: 06/13/11 15:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/13/11 19:27	67-64-1	
Benzene	ND	ug/L	5.0	1		06/13/11 19:27	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/13/11 19:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/13/11 19:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/13/11 19:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/13/11 19:27	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/13/11 19:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/13/11 19:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/13/11 19:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/13/11 19:27	75-00-3	
Chloroform	**4.3J**	ug/L	5.0	1		06/13/11 19:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/13/11 19:27	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/13/11 19:27	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/13/11 19:27	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/13/11 19:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/13/11 19:27	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 19:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/13/11 19:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/13/11 19:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/13/11 19:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/13/11 19:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/13/11 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/13/11 19:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/13/11 19:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/13/11 19:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/13/11 19:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/13/11 19:27	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/13/11 19:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/13/11 19:27	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/13/11 19:27	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/13/11 19:27	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/13/11 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/13/11 19:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/13/11 19:27	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/13/11 19:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/13/11 19:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/13/11 19:27	127-18-4	
Toluene	ND	ug/L	5.0	1		06/13/11 19:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/13/11 19:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/13/11 19:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/13/11 19:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/13/11 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/13/11 19:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/13/11 19:27	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/13/11 19:27	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Sample: MW-1102-S4 (061311) **Lab ID: 5049649003** Collected: 06/13/11 13:30 Received: 06/13/11 15:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/13/11 19:27	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		06/13/11 19:27	1868-53-7	
4-Bromofluorobenzene (S)	95	%	72-125	1		06/13/11 19:27	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		06/13/11 19:27	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Sample: MW-1105-S3/4 (061311) **Lab ID: 5049649004** Collected: 06/13/11 14:50 Received: 06/13/11 15:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/13/11 20:00	67-64-1	
Benzene	ND	ug/L	5.0	1		06/13/11 20:00	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/13/11 20:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/13/11 20:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/13/11 20:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/13/11 20:00	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/13/11 20:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/13/11 20:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/13/11 20:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/13/11 20:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/13/11 20:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/13/11 20:00	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/13/11 20:00	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/13/11 20:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/13/11 20:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/13/11 20:00	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 20:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 20:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/13/11 20:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/13/11 20:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/13/11 20:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/13/11 20:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/13/11 20:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/13/11 20:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/13/11 20:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/13/11 20:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/13/11 20:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/13/11 20:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/13/11 20:00	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/13/11 20:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/13/11 20:00	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/13/11 20:00	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/13/11 20:00	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/13/11 20:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/13/11 20:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/13/11 20:00	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/13/11 20:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/13/11 20:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/13/11 20:00	127-18-4	
Toluene	ND	ug/L	5.0	1		06/13/11 20:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/13/11 20:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/13/11 20:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/13/11 20:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/13/11 20:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/13/11 20:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/13/11 20:00	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/13/11 20:00	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Sample: MW-1105-S3/4 (061311) **Lab ID: 5049649004** Collected: 06/13/11 14:50 Received: 06/13/11 15:38 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/13/11 20:00	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		06/13/11 20:00	1868-53-7	
4-Bromofluorobenzene (S)	94	%	72-125	1		06/13/11 20:00	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		06/13/11 20:00	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

QC Batch: MSV/33253 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5049649001, 5049649002, 5049649003, 5049649004

METHOD BLANK: 584724 Matrix: Water
Associated Lab Samples: 5049649001, 5049649002, 5049649003, 5049649004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/13/11 13:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/13/11 13:19	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/13/11 13:19	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/13/11 13:19	
1,1-Dichloroethane	ug/L	ND	5.0	06/13/11 13:19	
1,1-Dichloroethene	ug/L	ND	5.0	06/13/11 13:19	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/13/11 13:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	06/13/11 13:19	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/13/11 13:19	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/13/11 13:19	
1,2-Dichloroethane	ug/L	ND	5.0	06/13/11 13:19	
1,2-Dichloropropane	ug/L	ND	5.0	06/13/11 13:19	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/13/11 13:19	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/13/11 13:19	
2-Butanone (MEK)	ug/L	ND	25.0	06/13/11 13:19	
2-Hexanone	ug/L	ND	25.0	06/13/11 13:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/13/11 13:19	
Acetone	ug/L	ND	100	06/13/11 13:19	
Benzene	ug/L	ND	5.0	06/13/11 13:19	
Bromodichloromethane	ug/L	ND	5.0	06/13/11 13:19	
Bromoform	ug/L	ND	5.0	06/13/11 13:19	
Bromomethane	ug/L	ND	5.0	06/13/11 13:19	
Carbon disulfide	ug/L	ND	10.0	06/13/11 13:19	
Carbon tetrachloride	ug/L	ND	5.0	06/13/11 13:19	
Chlorobenzene	ug/L	ND	5.0	06/13/11 13:19	
Chloroethane	ug/L	ND	5.0	06/13/11 13:19	
Chloroform	ug/L	ND	5.0	06/13/11 13:19	
Chloromethane	ug/L	ND	5.0	06/13/11 13:19	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/13/11 13:19	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/13/11 13:19	
Cyclohexane	ug/L	ND	100	06/13/11 13:19	N2
Dibromochloromethane	ug/L	ND	5.0	06/13/11 13:19	
Dichlorodifluoromethane	ug/L	ND	5.0	06/13/11 13:19	
Ethylbenzene	ug/L	ND	5.0	06/13/11 13:19	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/13/11 13:19	
Methyl acetate	ug/L	ND	50.0	06/13/11 13:19	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	06/13/11 13:19	
Methylcyclohexane	ug/L	ND	50.0	06/13/11 13:19	N2
Methylene chloride	ug/L	ND	5.0	06/13/11 13:19	
Styrene	ug/L	ND	5.0	06/13/11 13:19	
Tetrachloroethene	ug/L	ND	5.0	06/13/11 13:19	
Toluene	ug/L	ND	5.0	06/13/11 13:19	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/13/11 13:19	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

METHOD BLANK: 584724 Matrix: Water

Associated Lab Samples: 5049649001, 5049649002, 5049649003, 5049649004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/13/11 13:19	
Trichloroethene	ug/L	ND	5.0	06/13/11 13:19	
Trichlorofluoromethane	ug/L	ND	5.0	06/13/11 13:19	
Vinyl chloride	ug/L	ND	2.0	06/13/11 13:19	
Xylene (Total)	ug/L	ND	10.0	06/13/11 13:19	
4-Bromofluorobenzene (S)	%	95	72-125	06/13/11 13:19	
Dibromofluoromethane (S)	%	103	83-123	06/13/11 13:19	
Toluene-d8 (S)	%	98	81-114	06/13/11 13:19	

LABORATORY CONTROL SAMPLE: 584725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.5	113	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	55.1	110	68-134	
1,1,2-Trichloroethane	ug/L	50	52.5	105	77-129	
1,1,2-Trichlorotrifluoroethane	ug/L	50	56.5	113	63-134	
1,1-Dichloroethane	ug/L	50	51.9	104	70-127	
1,1-Dichloroethene	ug/L	50	54.9	110	75-145	
1,2,4-Trichlorobenzene	ug/L	50	48.1	96	64-122	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	54-138	
1,2-Dibromoethane (EDB)	ug/L	50	55.5	111	77-123	
1,2-Dichlorobenzene	ug/L	50	54.6	109	74-123	
1,2-Dichloroethane	ug/L	50	50.3	101	71-127	
1,2-Dichloropropane	ug/L	50	54.0	108	75-126	
1,3-Dichlorobenzene	ug/L	50	55.8	112	76-123	
1,4-Dichlorobenzene	ug/L	50	55.0	110	77-121	
2-Butanone (MEK)	ug/L	250	230	92	42-177	
2-Hexanone	ug/L	250	266	107	57-162	
4-Methyl-2-pentanone (MIBK)	ug/L	250	262	105	64-135	
Acetone	ug/L	250	282	113	10-200	
Benzene	ug/L	50	52.5	105	76-123	
Bromodichloromethane	ug/L	50	58.9	118	71-124	
Bromoform	ug/L	50	53.8	108	64-116	
Bromomethane	ug/L	50	65.0	130	23-197	
Carbon disulfide	ug/L	100	108	108	55-146	
Carbon tetrachloride	ug/L	50	60.9	122	65-125	
Chlorobenzene	ug/L	50	52.3	105	78-120	
Chloroethane	ug/L	50	48.0	96	56-163	
Chloroform	ug/L	50	51.8	104	73-122	
Chloromethane	ug/L	50	41.8	84	46-146	
cis-1,2-Dichloroethene	ug/L	50	53.7	107	79-129	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	66-123	
Cyclohexane	ug/L	50	51.5J	103	66-133	N2
Dibromochloromethane	ug/L	50	58.8	118	70-123	
Dichlorodifluoromethane	ug/L	50	48.6	97	19-200	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

LABORATORY CONTROL SAMPLE: 584725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	50	55.8	112	75-120	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	73-123	
Methyl acetate	ug/L	50	57.6	115	10-200	N2
Methyl-tert-butyl ether	ug/L	100	102	102	66-128	
Methylcyclohexane	ug/L	50	51.0	102	69-127	N2
Methylene chloride	ug/L	50	53.6	107	61-138	
Styrene	ug/L	50	57.4	115	75-125	
Tetrachloroethene	ug/L	50	49.0	98	57-125	
Toluene	ug/L	50	52.4	105	72-124	
trans-1,2-Dichloroethene	ug/L	50	55.4	111	71-145	
trans-1,3-Dichloropropene	ug/L	50	55.7	111	58-118	
Trichloroethene	ug/L	50	53.7	107	77-122	
Trichlorofluoromethane	ug/L	50	52.6	105	56-159	
Vinyl chloride	ug/L	50	52.5	105	61-146	
Xylene (Total)	ug/L	150	162	108	72-126	
4-Bromofluorobenzene (S)	%			97	72-125	
Dibromofluoromethane (S)	%			102	83-123	
Toluene-d8 (S)	%			98	81-114	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC accreditation for this parameter.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

GM REALM ENCORE

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 1

ID # № 09343

SSOW Ref. Code: E027029

Required Client Information:

Company: Arcadis	Report To: Sarah Fisher
Address: 251 E. Ohio St Suite 800 Indianapolis, In 46204	Copy To:
	Invoice To: IN000473.0020
	P.O.: IN000473.0020
Phone: 317 231 6500	Project Name: Allison Transmission
Fax: 317 231 6514	Project Number: IN000473.0020
E-mail: sfisher@arcadis-us.com	

Laboratory: PACE	
Laboratory Location: Indianapolis, In	
Laboratory Contact: Donna Spyker	
Requested Due Date:	TAT: 24-hr - Rush
QA/QC Requirements:	

5049649

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Analysis and Method: VOC										Remarks/Lab ID
1.	TB-1 (061311) -TK	WG	6/13/11	1030	3		X					X										001
2.	MW-1103-S3/4 (061311)	WG	6/13/11	1145	3		X					X										002
3.	MW-1102-S4 (061311)	WG	6/13/11	1330	3		X					X										003
4.	MW-1105-S3/4 (061311)	WG	6/13/11	1450	3		X					X										004
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						
11.																						
12.																						
13.																						
14.																						
15.																						
	TOTAL NUMBER OF CONTAINERS																					

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
		Thomas A. Kolb / Arcadis	6/13/11	338	L. Carol Kolb	6/13/11	338
AIRBILL NO.							

Sample Condition

Temp in °C	4.7c
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments: WI Client delv

Sampler Name: Thomas Kolb

Sampler Signature: Thomas A. Kolb Date: 6/13/11

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6/04)

Sample Condition Upon Receipt

Pace Analytical

Client Name: Arcadis Project # 5049649

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Foam

Thermometer Used 1 2 3 4 6 A B C D E **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 4.7°C **Ice Visible in Sample Containers:** ☐ yes ☑ no

(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/13/11

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☑Yes	☐No	☐N/A	6. 24hr. turnaround 6/13/11
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	10.
Trip Blank Present:	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: T Sayer **Date:** 6/13/11

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Arcadis

COC PAGE 1 of 1
COC ID# 09343

Project # 5049649

Pace Analytical
www.pacelabs.com

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															
2	↓															
3	↓															
4	3															
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Project Number 549649

Initials/ Date Compiled HM 6-17-11

Section 1: Prep and Analytical Information

** Sample Preparation Logs*
** Instrument Run Logs*
** Internal Standard Summary (Form 8A)*

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: TB-1 (061311)-TK
Lab ID: 5049649001
Collected: 06/13/11 10:30
Received: 06/13/11 15:38

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	50.0	1		06/13/11 18:20	
71-43-2	Benzene	ND	ug/L	5.0	1.0	1		06/13/11 18:20	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
75-25-2	Bromoform	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
74-83-9	Bromomethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	12.0	1		06/13/11 18:20	
75-15-0	Carbon disulfide	ND	ug/L	10.0	5.0	1		06/13/11 18:20	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
108-90-7	Chlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
75-00-3	Chloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
67-66-3	Chloroform	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
74-87-3	Chloromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
110-82-7	Cyclohexane	ND	ug/L	100	50.0	1		06/13/11 18:20	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5.0	1		06/13/11 18:20	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1.0	1		06/13/11 18:20	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
100-41-4	Ethylbenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
591-78-6	2-Hexanone	ND	ug/L	25.0	12.0	1		06/13/11 18:20	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
79-20-9	Methyl acetate	ND	ug/L	50.0	25.0	1		06/13/11 18:20	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	25.0	1		06/13/11 18:20	
75-09-2	Methylene chloride	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	12.0	1		06/13/11 18:20	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	2.0	1		06/13/11 18:20	
100-42-5	Styrene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1.0	1		06/13/11 18:20	
108-88-3	Toluene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	

Date: 06/17/2011 01:31 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: TB-1 (061311)-TK
Lab ID: 5049649001
Collected: 06/13/11 10:30
Received: 06/13/11 15:38

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1.0	1		06/13/11 18:20	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:20	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1.0	1		06/13/11 18:20	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	5.0	1		06/13/11 18:20	
1868-53-7	Dibromofluoromethane (S)	**103**	%	83-123		1		06/13/11 18:20	
460-00-4	4-Bromofluorobenzene (S)	**96**	%	72-125		1		06/13/11 18:20	
2037-26-5	Toluene-d8 (S)	**99**	%	81-114		1		06/13/11 18:20	

Date: 06/17/2011 01:31 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1103-S3/4 (061311)
Lab ID: 5049649002
Collected: 06/13/11 11:45
Received: 06/13/11 15:38

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	50.0	1		06/13/11 18:53	
71-43-2	Benzene	ND	ug/L	5.0	1.0	1		06/13/11 18:53	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
75-25-2	Bromoform	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
74-83-9	Bromomethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	12.0	1		06/13/11 18:53	
75-15-0	Carbon disulfide	ND	ug/L	10.0	5.0	1		06/13/11 18:53	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
108-90-7	Chlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
75-00-3	Chloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
67-66-3	Chloroform	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
74-87-3	Chloromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
110-82-7	Cyclohexane	ND	ug/L	100	50.0	1		06/13/11 18:53	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5.0	1		06/13/11 18:53	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1.0	1		06/13/11 18:53	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
100-41-4	Ethylbenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
591-78-6	2-Hexanone	ND	ug/L	25.0	12.0	1		06/13/11 18:53	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
79-20-9	Methyl acetate	ND	ug/L	50.0	25.0	1		06/13/11 18:53	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	25.0	1		06/13/11 18:53	
75-09-2	Methylene chloride	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	12.0	1		06/13/11 18:53	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	2.0	1		06/13/11 18:53	
100-42-5	Styrene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1.0	1		06/13/11 18:53	
108-88-3	Toluene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	

Date: 06/17/2011 01:31 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1103-S3/4 (061311)
Lab ID: 5049649002
Collected: 06/13/11 11:45
Received: 06/13/11 15:38

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1.0	1		06/13/11 18:53	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	2.5	1		06/13/11 18:53	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1.0	1		06/13/11 18:53	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	5.0	1		06/13/11 18:53	
1868-53-7	Dibromofluoromethane (S)	**99**	%	83-123		1		06/13/11 18:53	
460-00-4	4-Bromofluorobenzene (S)	**95**	%	72-125		1		06/13/11 18:53	
2037-26-5	Toluene-d8 (S)	**98**	%	81-114		1		06/13/11 18:53	

Date: 06/17/2011 01:31 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1102-S4 (061311)
Lab ID: 5049649003
Collected: 06/13/11 13:30
Received: 06/13/11 15:38

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	50.0	1		06/13/11 19:27	
71-43-2	Benzene	ND	ug/L	5.0	1.0	1		06/13/11 19:27	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
75-25-2	Bromoform	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
74-83-9	Bromomethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	12.0	1		06/13/11 19:27	
75-15-0	Carbon disulfide	ND	ug/L	10.0	5.0	1		06/13/11 19:27	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
108-90-7	Chlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
75-00-3	Chloroethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
67-66-3	Chloroform	**4.3J**	ug/L	5.0	2.5	1		06/13/11 19:27	
74-87-3	Chloromethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
110-82-7	Cyclohexane	ND	ug/L	100	50.0	1		06/13/11 19:27	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5.0	1		06/13/11 19:27	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1.0	1		06/13/11 19:27	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
100-41-4	Ethylbenzene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
591-78-6	2-Hexanone	ND	ug/L	25.0	12.0	1		06/13/11 19:27	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
79-20-9	Methyl acetate	ND	ug/L	50.0	25.0	1		06/13/11 19:27	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	25.0	1		06/13/11 19:27	
75-09-2	Methylene chloride	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	12.0	1		06/13/11 19:27	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	2.0	1		06/13/11 19:27	
100-42-5	Styrene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1.0	1		06/13/11 19:27	
108-88-3	Toluene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	

Date: 06/17/2011 01:31 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1102-S4 (061311)
Lab ID: 5049649003
Collected: 06/13/11 13:30
Received: 06/13/11 15:38

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1.0	1		06/13/11 19:27	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	2.5	1		06/13/11 19:27	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1.0	1		06/13/11 19:27	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	5.0	1		06/13/11 19:27	
1868-53-7	Dibromofluoromethane (S)	**101**	%	83-123		1		06/13/11 19:27	
460-00-4	4-Bromofluorobenzene (S)	**95**	%	72-125		1		06/13/11 19:27	
2037-26-5	Toluene-d8 (S)	**97**	%	81-114		1		06/13/11 19:27	

Date: 06/17/2011 01:31 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1105-S3/4 (061311)
Lab ID: 5049649004
Collected: 06/13/11 14:50
Received: 06/13/11 15:38

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	50.0	1		06/13/11 20:00	
71-43-2	Benzene	ND	ug/L	5.0	1.0	1		06/13/11 20:00	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
75-25-2	Bromoform	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
74-83-9	Bromomethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	12.0	1		06/13/11 20:00	
75-15-0	Carbon disulfide	ND	ug/L	10.0	5.0	1		06/13/11 20:00	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
108-90-7	Chlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
75-00-3	Chloroethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
67-66-3	Chloroform	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
74-87-3	Chloromethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
110-82-7	Cyclohexane	ND	ug/L	100	50.0	1		06/13/11 20:00	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5.0	1		06/13/11 20:00	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1.0	1		06/13/11 20:00	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
100-41-4	Ethylbenzene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
591-78-6	2-Hexanone	ND	ug/L	25.0	12.0	1		06/13/11 20:00	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
79-20-9	Methyl acetate	ND	ug/L	50.0	25.0	1		06/13/11 20:00	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	25.0	1		06/13/11 20:00	
75-09-2	Methylene chloride	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	12.0	1		06/13/11 20:00	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	2.0	1		06/13/11 20:00	
100-42-5	Styrene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1.0	1		06/13/11 20:00	
108-88-3	Toluene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	

Date: 06/17/2011 01:31 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1105-S3/4 (061311)
Lab ID: 5049649004
Collected: 06/13/11 14:50
Received: 06/13/11 15:38

CAS No.	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	Qual
79-01-6	Trichloroethene	ND	ug/L	5.0	1.0	1		06/13/11 20:00	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	2.5	1		06/13/11 20:00	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1.0	1		06/13/11 20:00	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	5.0	1		06/13/11 20:00	
1868-53-7	Dibromofluoromethane (S)	**98**	%	83-123		1		06/13/11 20:00	
460-00-4	4-Bromofluorobenzene (S)	**94**	%	72-125		1		06/13/11 20:00	
2037-26-5	Toluene-d8 (S)	**98**	%	81-114		1		06/13/11 20:00	

Date: 06/17/2011 01:31 PM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

QB Batch: MSV/33253 **Prepared:**
Method(s): EPA 8260
Associated Lab Samples: 5049649001, 5049649002, 5049649003, 5049649004

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	2.5	06/13/11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.5	06/13/11	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	2.5	06/13/11	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	2.5	06/13/11	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	2.5	06/13/11	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	2.5	06/13/11	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	2.5	06/13/11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5.0	06/13/11	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	2.5	06/13/11	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	2.5	06/13/11	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1.0	06/13/11	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	2.5	06/13/11	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	2.5	06/13/11	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	2.5	06/13/11	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	12.0	06/13/11	
591-78-6	2-Hexanone	ND	ug/L	25.0	12.0	06/13/11	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	12.0	06/13/11	
67-64-1	Acetone	ND	ug/L	100	50.0	06/13/11	
71-43-2	Benzene	ND	ug/L	5.0	1.0	06/13/11	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	2.5	06/13/11	
75-25-2	Bromoform	ND	ug/L	5.0	2.5	06/13/11	
74-83-9	Bromomethane	ND	ug/L	5.0	2.5	06/13/11	
75-15-0	Carbon disulfide	ND	ug/L	10.0	5.0	06/13/11	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	2.5	06/13/11	
108-90-7	Chlorobenzene	ND	ug/L	5.0	2.5	06/13/11	
75-00-3	Chloroethane	ND	ug/L	5.0	2.5	06/13/11	
67-66-3	Chloroform	ND	ug/L	5.0	2.5	06/13/11	
74-87-3	Chloromethane	ND	ug/L	5.0	2.5	06/13/11	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	2.5	06/13/11	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

QB Batch: MSV/33253 **Prepared:**
Method(s): EPA 8260
Associated Lab Samples: 5049649001, 5049649002, 5049649003, 5049649004

CAS No.	Parameters	Results	Units	Reporting Limit	MDL	Analyzed	Qual
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	2.5	06/13/11	
110-82-7	Cyclohexane	ND	ug/L	100	50.0	06/13/11	N2
124-48-1	Dibromochloromethane	ND	ug/L	5.0	2.5	06/13/11	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	2.5	06/13/11	
100-41-4	Ethylbenzene	ND	ug/L	5.0	2.5	06/13/11	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	2.5	06/13/11	
79-20-9	Methyl acetate	ND	ug/L	50.0	25.0	06/13/11	N2
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	2.0	06/13/11	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	25.0	06/13/11	N2
75-09-2	Methylene chloride	ND	ug/L	5.0	2.5	06/13/11	
100-42-5	Styrene	ND	ug/L	5.0	2.5	06/13/11	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1.0	06/13/11	
108-88-3	Toluene	ND	ug/L	5.0	2.5	06/13/11	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	2.5	06/13/11	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	2.5	06/13/11	
79-01-6	Trichloroethene	ND	ug/L	5.0	1.0	06/13/11	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	2.5	06/13/11	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1.0	06/13/11	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	5.0	06/13/11	

Type	Sample	Matrix
BLANK	584724	Water

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SURROGATE RECOVERY SUMMARY

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

QB Batch: MSV / 33253
Method(s): EPA 8260 / EPA 8260

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec	Sur1 Qual	Sur2 % Rec	Sur2 Qual	Sur3 % Rec	Sur3 Qual	Sur4 % Rec	Sur4 Qual	Sur5 % Rec	Sur5 Qual	Sur6 % Rec	Sur6 Qual
5049649001		TB-1 (061311)-TK	1	96		103		99							
584724	BLANK		1	95		103		98							
5049649002		MW-1103-S3/4 (061311)	1	95		99		98							
584725	LCS		1	97		102		98							
5049649003		MW-1102-S4 (061311)	1	95		101		97							
5049649004		MW-1105-S3/4 (061311)	1	94		98		98							
			QC Limits:	72-125		83-123		81-114							

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

Date: 06/17/2011 01:31 PM

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

QB Batch: MSV/33253 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	113			69-126		50	56.5		ug/L	06/13/11			
1,1,2,2-Tetrachloroethane	110			68-134		50	55.1		ug/L	06/13/11			
1,1,2-Trichloroethane	105			77-129		50	52.5		ug/L	06/13/11			
1,1,2-Trichlorotrifluoroethane	113			63-134		50	56.5		ug/L	06/13/11			
1,1-Dichloroethane	104			70-127		50	51.9		ug/L	06/13/11			
1,1-Dichloroethene	110			75-145		50	54.9		ug/L	06/13/11			
1,2,4-Trichlorobenzene	96			64-122		50	48.1		ug/L	06/13/11			
1,2-Dibromo-3-chloropropane	103			54-138		50	51.6		ug/L	06/13/11			
1,2-Dibromoethane (EDB)	111			77-123		50	55.5		ug/L	06/13/11			
1,2-Dichlorobenzene	109			74-123		50	54.6		ug/L	06/13/11			
1,2-Dichloroethane	101			71-127		50	50.3		ug/L	06/13/11			
1,2-Dichloropropane	108			75-126		50	54.0		ug/L	06/13/11			
1,3-Dichlorobenzene	112			76-123		50	55.8		ug/L	06/13/11			
1,4-Dichlorobenzene	110			77-121		50	55.0		ug/L	06/13/11			
2-Butanone (MEK)	92			42-177		250	230		ug/L	06/13/11			
2-Hexanone	107			57-162		250	266		ug/L	06/13/11			
4-Methyl-2-pentanone (MIBK)	105			64-135		250	262		ug/L	06/13/11			
Acetone	113			10-200		250	282		ug/L	06/13/11			
Benzene	105			76-123		50	52.5		ug/L	06/13/11			
Bromodichloromethane	118			71-124		50	58.9		ug/L	06/13/11			
Bromoform	108			64-116		50	53.8		ug/L	06/13/11			
Bromomethane	130			23-197		50	65.0		ug/L	06/13/11			
Carbon disulfide	108			55-146		100	108		ug/L	06/13/11			
Carbon tetrachloride	122			65-125		50	60.9		ug/L	06/13/11			
Chlorobenzene	105			78-120		50	52.3		ug/L	06/13/11			
Chloroethane	96			56-163		50	48.0		ug/L	06/13/11			
Chloroform	104			73-122		50	51.8		ug/L	06/13/11			
Chloromethane	84			46-146		50	41.8		ug/L	06/13/11			
cis-1,2-Dichloroethene	107			79-129		50	53.7		ug/L	06/13/11			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: IN000473.0020/Allison Trans
Pace Project No.: 5049649

QB Batch: MSV/33253 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
cis-1,3-Dichloropropene	112			66-123		50	55.9		ug/L	06/13/11			
Cyclohexane	103			66-133		50	51.5J		ug/L	06/13/11		N2	
Dibromochloromethane	118			70-123		50	58.8		ug/L	06/13/11			
Dichlorodifluoromethane	97			19-200		50	48.6		ug/L	06/13/11			
Ethylbenzene	112			75-120		50	55.8		ug/L	06/13/11			
Isopropylbenzene (Cumene)	103			73-123		50	51.5		ug/L	06/13/11			
Methyl acetate	115			10-200		50	57.6		ug/L	06/13/11		N2	
Methyl-tert-butyl ether	102			66-128		100	102		ug/L	06/13/11			
Methylcyclohexane	102			69-127		50	51.0		ug/L	06/13/11		N2	
Methylene chloride	107			61-138		50	53.6		ug/L	06/13/11			
Styrene	115			75-125		50	57.4		ug/L	06/13/11			
Tetrachloroethene	98			57-125		50	49.0		ug/L	06/13/11			
Toluene	105			72-124		50	52.4		ug/L	06/13/11			
trans-1,2-Dichloroethene	111			71-145		50	55.4		ug/L	06/13/11			
trans-1,3-Dichloropropene	111			58-118		50	55.7		ug/L	06/13/11			
Trichloroethene	107			77-122		50	53.7		ug/L	06/13/11			
Trichlorofluoromethane	105			56-159		50	52.6		ug/L	06/13/11			
Vinyl chloride	105			61-146		50	52.5		ug/L	06/13/11			
Xylene (Total)	108			72-126		150	162		ug/L	06/13/11			

Type	Sample
LCS	584725

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV4.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:
Surr. lot:
Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/a00bfb.d	bfb050	L/	BFB	1	bfb	5/23/11	12:05	grm	✓
1/a01.d	0.5 ppb 34d-329/332	L/	CALIB_1	1	a8260_a_b	5/23/11	12:38	grm	Instrument tuned
1/a02.d	1 ppb	L/	CALIB_2	1	a8260_a_b	5/23/11	13:12	grm	+ curved
1/a03.d	2 ppb	L/	CALIB_3	1	a8260_a_b	5/23/11	13:45	grm	
1/a04.d	5 ppb	L/	CALIB_4	1	a8260_a_b	5/23/11	14:19	grm	
1/a05.d	10 ppb	L/	CALIB_5	1	a8260_a_b	5/23/11	14:52	grm	
1/a06.d	50 ppb	L/	CALIB_6	1	a8260_a_b	5/23/11	15:26	grm	
1/a07.d	150 ppb	L/	CALIB_7	1	a8260_a_b	5/23/11	15:59	grm	
1/a08.d	300 ppb	L/	CALIB_8	1	a8260_a_b	5/23/11	16:32	grm	
1/a09.d	blank	L/	SAMPLE	1	a8260_a_b	5/23/11	17:06	grm	
1/a10icv.d	icv 34d-321	L/	ICV	1	a8260_a_b	5/23/11	17:39	grm	✓
1/a11ccv.d	ccv	L/	CCALIB_6	1	a8260_a_b	5/23/11	18:13	grm	✓ Passes full list
1/a12lcs.d	lcs 34d-321	L/	LCS	1	a8260_a_b	5/23/11	18:46	grm	✓
1/a13mb.d	mb 34d-323	L/	BLANK	1	a8260_a_b	5/23/11	19:20	grm	✓
1/a14.d	r5048728018	L/ Fill 32685	SAMPLE	25	a8260_a_b	5/23/11	19:53	grm	32632
1/a15.d	r5048728019	L/	SAMPLE	100	a8260_a_b	5/23/11	20:27	grm	32690
1/a16.d	5048774001	L/	SAMPLE	1	a8260_a_b	5/23/11	21:00	grm	
1/a17.d	r5048774010	L/	SAMPLE	10	a8260_a_b	5/23/11	21:34	grm	32632
1/a18.d	r5048774011	L/	SAMPLE	10	a8260_a_b	5/23/11	22:07	grm	32632
1/a19.d	r5048774013	L/	SAMPLE	10	a8260_a_b	5/23/11	22:40	grm	32632
1/a20.d	r5048774014	L/	SAMPLE	10	a8260_a_b	5/23/11	23:14	grm	32632
1/a21.d	fill	L/	SAMPLE	1	a8260_a_b	5/23/11	23:47	grm	
1/c00bfb.d	bfb050	L/	BFB	1	bfb	5/24/11	00:21	grm	✓
1/c01ccv.d	ccv	L/	CCALIB_6	1	a8260_a_b	5/24/11	00:54	grm	✓ Passes full list
1/c02lcs.d	lcs	L/	LCS	1	a8260_a_b	5/24/11	01:28	grm	✓
1/c03mb.d	mb	L/	BLANK	1	a8260_a_b	5/24/11	02:01	grm	✓
1/c04.d	5048774015	L/ Fill 32687	SAMPLE	1	a8260_a_b	5/24/11	02:35	grm	re 20x
1/c05.d	r5048774015	L/	SAMPLE	20	a8260_a_b	5/24/11	03:08	grm	✓
1/c06.d	5048774016	L/	SAMPLE	1	a8260_a_b	5/24/11	03:42	grm	
1/c07.d	5048774017	L/	SAMPLE	1	a8260_a_b	5/24/11	04:15	grm	re 10x
1/c08.d	r5048774017	L/	SAMPLE	10	a8260_a_b	5/24/11	04:49	grm	✓ re 100x
1/c09.d	5048774018	L/	SAMPLE	1	a8260_a_b	5/24/11	05:22	grm	re 25x
1/c10.d	5048774019	L/	SAMPLE	1	a8260_a_b	5/24/11	05:55	grm	
1/c11.d	5048774020	L/	SAMPLE	1	a8260_a_b	5/24/11	06:29	grm	re 10x

File Path 1: \\50wintarget\chem\50MSV4.i\a052311.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:15 05/24/2011

5-24-11

All water samples have a pH below 2 unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV4.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:
Surr. lot:
Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/a00bfb.d	bfb050 34D-4/6	L/	BFB	1	bfb	6/13/11	11:38	grm	–
1/a01ccv.d	ccv 34d-402/399	L/	CCALIB_6	1	a8260_a_b	6/13/11	12:12	grm	– Passes full list
1/a02lcs-full.d	584725	L/33253	LCS	1	a8260_a_b	6/13/11	12:45	grm	–
1/a02lcs.d	584722	L/33252	LCS	1	a8260_a_b	6/13/11	12:45	grm	–
1/a03mb-full.d	584724	L/33253	BLANK	1	a8260_a_b	6/13/11	13:19	grm	–
1/a03mb.d	584721	L/33252	BLANK	1	a8260_a_b	6/13/11	13:19	grm	–
1/a04.d	5049287001	L/33252	SAMPLE	1 UST	a8260_a_b	6/13/11	13:52	grm	no 10x
1/a05.d	5049287002	L/33252	SAMPLE	1	a8260_a_b	6/13/11	14:26	grm	
1/a06.d	5049287003	L/33252	SAMPLE	1	a8260_a_b	6/13/11	14:59	grm	
1/a07.d	r5049287003	L/	SAMPLE	10	a8260_a_b	6/13/11	15:33	grm	not needed
1/a08.d	5049287004	L/33252	SAMPLE	5	a8260_a_b	6/13/11	16:06	grm	DY
1/a09.d	r5049287004	L/	SAMPLE	25	a8260_a_b	6/13/11	16:40	grm	not needed
1/a10.d	5049287005	L/33252	SAMPLE	1	a8260_a_b	6/13/11	17:13	grm	
1/a11.d	r5049287005	L/	SAMPLE	10	a8260_a_b	6/13/11	17:47	grm	not needed
1/a12.d	5049649001	L/33253	SAMPLE	1 Full	a8260_a_b	6/13/11	18:20	grm	
1/a13.d	5049649002	L/33253	SAMPLE	1	a8260_a_b	6/13/11	18:53	grm	
1/a14.d	5049649003	L/33253	SAMPLE	1	a8260_a_b	6/13/11	19:27	grm	
1/a15.d	5049649004	L/33253	SAMPLE	1	a8260_a_b	6/13/11	20:00	grm	
1/a16.d	5049287007	L/33252	SAMPLE	1 UST	a8260_a_b	6/13/11	20:34	grm	
1/a17.d	5049287008	L/33252	SAMPLE	10	a8260_a_b	6/13/11	21:07	grm	DY
1/a18.d	5049287009	L/	SAMPLE	10	a8260_a_b	6/13/11	21:41	grm	no 1x N/B O/D
1/a19.d	5049287010	L/33252	SAMPLE	1	a8260_a_b	6/13/11	22:14	grm	
1/a20.d	5049287011	L/33252	SAMPLE	1	a8260_a_b	6/13/11	22:47	grm	
1/a21.d	584723	L/33252	MS	1	a8260_a_b	6/13/11	23:21	grm	
1/c00bfb.d	bfb050	L/	BFB	1	bfb	6/13/11	23:54	grm	–
1/c01ccv.d	ccv	L/	CCALIB_6	1	a8260_a_b	6/14/11	00:28	grm	– passes full list
1/c02lcs.d	lcs	L/	LCS	1	a8260_a_b	6/14/11	01:01	grm	–
1/c03mb.d	mb	L/	BLANK	1	a8260_a_b	6/14/11	01:35	grm	–
1/c04.d	5049276001	L/ UST	SAMPLE	1	a8260_a_b	6/14/11	02:08	grm	
1/c05.d	5049276002	L/ 33273	SAMPLE	1	a8260_a_b	6/14/11	02:41	grm	
1/c06.d	5049276003	L/	SAMPLE	1	a8260_a_b	6/14/11	03:15	grm	
1/c07.d	5049276004	L/	SAMPLE	1	a8260_a_b	6/14/11	03:48	grm	
1/c08.d	5049276005	L/	SAMPLE	1	a8260_a_b	6/14/11	04:22	grm	
1/c09.d	5049276006	L/	SAMPLE	1	a8260_a_b	6/14/11	04:55	grm	

File Path 1: \\50wintarget\chem\50MSV4.i\a061311.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:25 06/14/2011

6-14-11

All water samples
have a pH below 2
unless otherwise noted

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061311.B

Lab File ID (Standard): A01CCV Date Analyzed: 06/13/11

Instrument ID: 50MSV4 Time Analyzed: 1212

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(CBZ) AREA #	RT	IS2(DCB) AREA #	RT	IS3 AREA #	RT
	12 HOUR STD	315826	7.35	159099	8.82	412397	4.41
	UPPER LIMIT	631652	7.85	318198	9.32	824794	4.91
	LOWER LIMIT	157913	6.85	79550	8.32	206199	3.91
	EPA SAMPLE NO.						
01	LCS	307391	7.35	152490	8.82	407778	4.41
02	LCS	307391	7.35	152490	8.82	407778	4.41
03	MB	300780	7.35	140664	8.81	400167	4.41
04	MB	300780	7.35	140664	8.81	400167	4.41
05	5049287001	317459	7.35	152928	8.82	417118	4.42
06	5049287002	301015	7.35	140178	8.82	417659	4.41
07	5049287003	306810	7.35	150679	8.82	413821	4.42
08	5049287004	304081	7.35	147808	8.82	406966	4.41
09	5049287005	304741	7.35	139569	8.82	413213	4.41
10	5049649001	292500	7.35	131414	8.83	386633	4.41
11	5049649002	297016	7.35	132725	8.83	395024	4.41
12	5049649003	294329	7.35	132695	8.82	390337	4.42
13	5049649004	290648	7.35	131892	8.83	390343	4.41
14	5049287007	296782	7.35	138013	8.83	398329	4.41
15	5049287008	308410	7.35	145192	8.82	397983	4.41
16	5049287010	295292	7.35	131894	8.82	388389	4.41
17	5049287011	297238	7.35	133317	8.82	389885	4.41
18	MS5049287002	299755	7.35	146437	8.82	394857	4.41
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 2: Initial Calibration Data

** Initial Calibration Summary Table*
** BFB Tune Information*
** Initial Calibration Standards*
** ICV Standard*

Initial Calibrations included:
(Instrument name and calibration date)

ICAL 1: 50 MSV-4 c-1 5-23-11

ICAL 2: _____

ICAL 3: _____

ICAL 4: _____

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Calibration File Names:
Level 1: \\50wintarget\chem\50MSV4.i\a052311.b\a01.d
Level 2: \\50wintarget\chem\50MSV4.i\a052311.b\a02.d
Level 3: \\50wintarget\chem\50MSV4.i\a052311.b\a03.d
Level 4: \\50wintarget\chem\50MSV4.i\a052311.b\a04.d
Level 5: \\50wintarget\chem\50MSV4.i\a052311.b\a05.d
Level 6: \\50wintarget\chem\50MSV4.i\a052311.b\a06.d
Level 7: \\50wintarget\chem\50MSV4.i\a052311.b\a07.d
Level 8: \\50wintarget\chem\50MSV4.i\a052311.b\a08.d

5-24-11

Compound	0.5000000 Level 1	1.0000 Level 2	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
1 Dichlorodifluoromethane	0.31168	0.29164	0.33580	0.36221	0.37222	0.33498					
	0.33333	0.32554					AVRG		0.33343		7.70705
2 Chloromethane	0.32921	0.33059	0.31309	0.32155	0.32443	0.29693					
	0.33858	0.37259					AVRG		0.32837		6.66096
3 Vinyl Chloride	0.22811	0.22414	0.22683	0.26121	0.26234	0.24401					
	0.24598	0.25873					AVRG		0.24392		6.56579

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
4 Bromomethane	1029	1445	2324	4271	9542	38743					
	+++++	+++++					LINR	-0.02497	0.09000		0.99808
5 Chloroethane	0.13735	0.12354	0.11869	0.12196	0.12549	0.09972					
	+++++	+++++					AVRG		0.12113		10.12960
6 Trichlorofluoromethane	0.25837	0.26154	0.27762	0.29976	0.30360	0.27524					
	0.26478	0.22714					AVRG		0.27100		8.99890
7 1,2-dichlorotrifluoroethane	0.17649	0.16440	0.18200	0.19563	0.21172	0.18893					
	0.18429	0.18073					AVRG		0.18552		7.52608
8 Diethyl ether	543	917	1560	4173	7495	38306					
	109053	203949					LINR	-0.03045	0.08208		0.99963
18 tert-Butyl Alcohol	0.01981	0.02300	0.02435	0.01960	0.02131	0.02150					
	0.02258	0.02301					AVRG		0.02190		7.53826
9 Acrolein	0.02456	0.02392	0.02148	0.02366	0.02330	0.02117					
	0.01950	0.01765					AVRG		0.02190		11.01847

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
10 1,1,2trichlorotrifluoroethane	0.11142	0.14313	0.15112	0.17443	0.17763	0.16180					
	0.15576	0.15533					AVRG		0.15383		13.41486
11 1,1-Dichloroethene	0.15512	0.14027	0.14707	0.16143	0.16972	0.15278					
	0.14793	0.14916					AVRG		0.15293		6.01888
12 Acetone	2036	3543	5307	11524	22428	100371					
	293000	550711					LINR	-0.17584	0.04420		0.99982
143 Acetonitrile	0.55612	0.50216	0.51261	0.51711	0.52530	0.49194					
	0.40567	0.36645					AVRG		0.48467		13.31811
13 Iodomethane	1014	1284	2883	12482	31402	213851					
	625133	1188021					LINR	0.02048	0.24011		0.99976
14 Carbon Disulfide	0.43162	0.38794	0.39750	0.41376	0.42313	0.40771					
	0.38756	0.40945					AVRG		0.40733		3.88042
16 Methyl Acetate	0.19402	0.15520	0.14253	0.15259	0.15306	0.14383					
	0.13106	0.13293					AVRG		0.15065		13.08666

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 allyl chloride	0.27818	0.25108	0.25061	0.27836	0.27005	0.26181					
	0.21882	0.19895					AVRG		0.25098		11.38193
17 Methylene Chloride	2976	3365	4711	8956	15859	72772					
	212829	419088					LINR	-0.02487	0.16686		0.99985
19 Acrylonitrile	9220	19892	38298	104667	200217	916818					
	2366429	3700655					LINR	-2.42212	0.07712		0.98678
20 Methyl-tert-butyl ether	0.64280	0.58168	0.60862	0.67723	0.66975	0.61480					
	0.56870	0.52512					AVRG		0.61109		8.50162
21 1,2-Dichloroethene (trans)	0.24732	0.21781	0.25944	0.26537	0.26738	0.24154					
	0.22037	0.20066					AVRG		0.23999		10.27030
22 n-Hexane	0.34385	0.25616	0.28060	0.32881	0.34652	0.32804					
	0.32156	0.32611					AVRG		0.31646		9.97996
147 chloroprene	0.40845	0.41602	0.43839	0.48422	0.48344	0.45446					
	0.43708	0.43870					AVRG		0.44509		6.25576

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
23 1,1-Dichloroethane	0.41565	0.48699	0.46582	0.51446	0.52901	0.50201					
spca	0.48084	0.48681					AVRG		0.48520		7.09539
24 Vinyl Acetate	0.05007	0.04818	0.04706	0.05473	0.05682	0.05332					
	0.05049	0.05059					AVRG		0.05141		6.43277
26 1,2-Dichloroethene (cis)	0.26773	0.27826	0.28149	0.30741	0.28408	0.27540					
	0.26243	0.26554					AVRG		0.27779		5.13398
27 2,2-Dichloropropane	0.27494	0.24995	0.22748	0.24958	0.26040	0.26619					
	0.27168	0.28134					AVRG		0.26020		6.68869
28 2-Butanone	0.15930	0.13711	0.13389	0.14283	0.14788	0.13739					
	0.12905	0.12458					AVRG		0.13900		7.90213
144 Methacrylonitrile	0.15512	0.16619	0.15011	0.18118	0.17450	0.16592					
	0.15948	0.15543					AVRG		0.16349		6.44658
30 Bromochloromethane	0.27950	0.24577	0.25520	0.27749	0.27555	0.23296					
	0.20589	0.19438					AVRG		0.24584		13.32758

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
31 Tetrahydrofuran	2939	4373	4762	6166	10599	41361					
	113587	211051					LINR	-0.10692	0.08375		0.99973
32 Chloroform CCC	0.41613	0.37910	0.42939	0.46272	0.45374	0.42492					
	0.41763	0.42574					AVRG		0.42617		5.94791
34 1,1,1-Trichloroethane	0.29559	0.27062	0.31452	0.34536	0.34221	0.32768					
	0.33940	0.35417					AVRG		0.32369		8.81148
35 Cyclohexane	0.45719	0.44708	0.44173	0.48692	0.50368	0.47267					
	0.47015	0.47849					AVRG		0.46974		4.39806
145 isopropyl acetate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000 NTC
36 Carbon Tetrachloride	0.21827	0.22796	0.22933	0.25483	0.24867	0.26087					
	0.28360	0.30150					AVRG		0.25313		11.33761
37 1,1-Dichloropropene	0.28118	0.27755	0.32090	0.33962	0.34850	0.33079					
	0.32157	0.32808					AVRG		0.31852		8.11245

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
141 2,2,4-Trimethylpentane	0.60078	0.56847	0.56388	0.63283	0.65313	0.62052					
	0.61719	0.63953					AVRG		0.61204		5.28326
39 Benzene	0.96168	0.94662	1.01217	1.10515	1.08504	1.01256					
	0.98244	0.99463					AVRG		1.01254		5.53561
40 1,2-Dichloroethane	0.33257	0.30180	0.33640	0.37159	0.36641	0.33773					
	0.32436	0.32141					AVRG		0.33653		6.85225
38 Isobutyl alcohol	208	786	1591	4593	8846	43982					
	138192	266364					LINR	0.00491	0.10705		0.99998
42 Trichloroethene	0.26533	0.25664	0.23815	0.27649	0.28215	0.26446					
	0.26156	0.26978					AVRG		0.26432		5.05212
43 Methylcyclohexane	0.30880	0.27504	0.28304	0.32816	0.34414	0.32527					
	0.32559	0.33243					AVRG		0.31531		7.76844
142 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

NTa

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
44 1,2-Dichloropropane	0.25717	0.24720	0.24292	0.29167	0.30894	0.28144					
CEC	0.28000	0.28115					AVRG		0.27381		8.33086
45 Dibromomethane	0.14623	0.15090	0.14271	0.16760	0.16166	0.15093					
	0.14596	0.14675					AVRG		0.15159		5.69234
46 Methyl methacrylate	0.10517	0.12808	0.12429	0.13838	0.16334	0.15677					
	0.16025	0.15827					AVRG		0.14182		14.95290
47 Bromodichloromethane	0.24300	0.22593	0.25073	0.28332	0.28908	0.28568					
	0.29008	0.30336					AVRG		0.27140		10.16705
48 2-Chloroethyl vinyl ether	0.18954	0.21071	0.20659	0.24104	0.24439	0.25013					
	0.23962	0.23227					AVRG		0.22679		9.58299
49 cis-1,3-Dichloropropene	0.42548	0.36239	0.36987	0.44388	0.45787	0.47959					
	0.50135	0.49807					AVRG		0.44231		12.12934
50 4-Methyl-2-Pentanone	0.30778	0.31313	0.32295	0.35352	0.37236	0.35910					
	0.32602	0.29148					AVRG		0.33079		8.48653

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
52 Toluene ccc	1.47694	1.42508	1.48248	1.49208	1.53039	1.45029					
	1.38736	1.35397					AVRG		1.44983		4.02021
53 trans-1,3-Dichloropropene	0.34350	0.33580	0.29100	0.33857	0.36219	0.40732					
	0.42218	0.42919					AVRG		0.36622		13.32367
54 Ethyl Methacrylate	0.27772	0.29373	0.29067	0.35100	0.38234	0.39822					
	0.39411	0.37392					AVRG		0.34521		14.53242
55 1,1,2-Trichloroethane	0.24023	0.24056	0.22306	0.26849	0.26626	0.25785					
	0.23883	0.23462					AVRG		0.24624		6.55920
56 Tetrachloroethene	2254	3079	5026	14474	30025	140034					
	396366	742202					LINR	-0.04194	0.39901		0.99901
57 1,3-Dichloropropane	0.43533	0.47476	0.46920	0.51919	0.50516	0.48320					
	0.47180	0.45483					AVRG		0.47668		5.56786
58 2-Hexanone	0.20470	0.20804	0.19334	0.23412	0.24869	0.24394					
	0.22817	0.20454					AVRG		0.22069		9.35749

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
59 Dibromochloromethane	0.26215	0.25556	0.24043	0.27693	0.28166	0.30687					
	0.32574	0.32877					AVRG		0.28476		11.49848
60 1,2-Dibromoethane	0.25421	0.25100	0.27526	0.30280	0.30807	0.30235					
	0.29409	0.29139					AVRG		0.28490		7.81843
62 Chlorobenzene	0.88845	0.87824	0.93710	1.00487	1.00240	0.96225					
SPCC	0.92353	0.89621					AVRG		0.93663		5.28842
63 1,1,1,2-Tetrachloroethane	0.24881	0.25866	0.24215	0.25878	0.27457	0.30625					
	0.30540	0.31042					AVRG		0.27563		10.12112
64 Ethylbenzene	0.38735	0.43643	0.44359	0.47368	0.49960	0.49808					
CCC	0.46686	0.43978					AVRG		0.45567		8.13294
65 m&p-Xylene	0.52939	0.53746	0.55586	0.59304	0.61189	0.58921					
	0.53807	0.49524					AVRG		0.55627		7.01652
67 o-Xylene	0.55163	0.53167	0.52801	0.58820	0.58563	0.55278					
	0.51688	0.49608					AVRG		0.54386		5.92199

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
68 Styrene	0.72417	0.83535	0.83964	0.92615	0.99626	0.95351					
	0.89412	0.84341					AVRG		0.87658		9.68003
69 Bromoform	429	707	1479	4461	9125	56832					
spec	191357	407814					LINR	0.04711	0.43062		0.99935
70 Isopropylbenzene	1.17730	1.23981	1.22623	1.32179	1.39633	1.35101					
	1.28295	1.28101					AVRG		1.28455		5.52196
74 Bromobenzene	0.54845	0.46742	0.48764	0.50542	0.52196	0.49768					
	0.47616	0.48851					AVRG		0.49915		5.23155
73 1,1,2,2-Tetrachloroethane	0.71694	0.67508	0.63846	0.78135	0.76486	0.74868					
spec	0.72202	0.68718					AVRG		0.71682		6.72684
75 1,2,3-Trichloropropane	0.69804	0.68146	0.64644	0.72495	0.74735	0.79402					
	0.78602	0.78093					AVRG		0.73240		7.38385
71 trans-1,4-Dichloro-2-butene	249	329	1029	2915	5749	33500					
	99944	203618					LINR	0.01604	0.10862		0.99984

Avg RF = 0.3264

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
76 n-Propylbenzene	2.93918	2.80308	2.63279	2.93781	2.96571	2.98657					
	2.93107	2.78768					AVRG		2.87299		4.22857
77 2-Chlorotoluene	1.65863	1.66271	1.74051	1.81141	1.90722	1.85259					
	1.78590	1.65731					AVRG		1.75954		5.44385
78 1,3,5-Trimethylbenzene	1.73074	1.77327	1.77143	1.95378	2.04386	2.00235					
	1.87777	1.77695					AVRG		1.86627		6.46291
79 4-Chlorotoluene	0.54331	0.64814	0.63115	0.66523	0.66388	0.65011					
	0.61366	0.57300					AVRG		0.62356		7.12681
146 n-amyl acetate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
80 tert-Butylbenzene	1.80776	2.00539	2.00880	1.87357	1.92789	1.88489					
	1.88380	2.08593					AVRG		1.93475		4.71809
81 1,2,4-Trimethylbenzene	1.95619	1.82643	1.87382	1.97441	2.08520	2.01967					
	1.98141	1.90403					AVRG		1.95264		4.23568

MTC

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1 / 150.0000 Level 7	1.0000 Level 2 / 300.0000 Level 8	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
82 sec-Butylbenzene	2.00379	1.85584	1.96990	2.22139	2.27139	2.27655					
	2.23397	2.21056					AVRG		2.13043		7.60690
83 1,3-Dichlorobenzene	1.06421	1.07906	1.13064	1.17057	1.20051	1.20560					
	1.19342	1.18187					AVRG		1.15324		4.82248
84 p-Isopropyltoluene	1.54240	1.59609	1.71492	1.86457	1.95221	1.92294					
	1.90759	1.88270					AVRG		1.79793		8.81957
86 1,4-Dichlorobenzene	1.23154	1.12903	1.08327	1.16568	1.24840	1.21346					
	1.21337	1.19363					AVRG		1.18480		4.70253
87 n-Butylbenzene	1068	2390	5729	18495	42764	224382					
	707146	1440534					LINR	0.01497	1.52628		0.99998
88 1,2-Dichlorobenzene	1.06281	1.08827	1.03922	1.08950	1.18320	1.17460					
	1.13877	1.11496					AVRG		1.11142		4.62505
89 1,2-Dibromo-3-chloropropane	+++++	92.00000	341	1024	2406	15416					
	53196	113017					LINR	0.06459	0.11982		0.99937

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1	1.0000 Level 2	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
90 1,2,4-Trichlorobenzene	65.00000	208	729	3656	11506	83126					
	282271	626502					LINR	0.07595	0.66062		0.99837
91 Hexachlorobutadiene	278	528	929	3124	6632	35926					
	114658	252969					LINR	0.04545	0.26555		0.99869
92 Naphthalene	+++++	104	769	6098	24150	233204					
	814115	1730475					LINR	0.08712	1.84304		0.99937
93 1,2,3-Trichlorobenzene	+++++	+++++	402	2827	9542	70551					
	246617	545078					LINR	0.11443	0.57984		0.99857
94 2,methyl-naphthalene	+++++	+++++	+++++	+++++	+++++	0.09979					
	0.35113	0.48118					AVRG		0.31070		62.40149 <- ID only
$ 33 Dibromofluoromethane (S)	0.25378	0.25155	0.25573	0.25900	0.25157	0.25108					
	0.25273	0.25484					AVRG		0.25379		1.05836
$ 51 Toluene-d8	1.26518	1.29641	1.31378	1.27507	1.31800	1.28784					
	1.28913	1.28109					AVRG		1.29081		1.40704

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Compound	0.5000000 Level 1	1.0000 Level 2	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	150.0000 Level 7	300.0000 Level 8									
$ 72 4-Bromofluorobenzene	0.44103	0.45902	0.45441	0.46479	0.46315	0.47135					
	0.46231	0.46764					AVRG		0.46046		2.03687

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2011 12:38
End Cal Date : 23-MAY-2011 16:32
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Last Edit : 24-May-2011 13:09 gmccreary

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a00bfb.d

Date : 23-MAY-2011 12:05

Client ID: bfb050

Instrument: 50MSV4.i

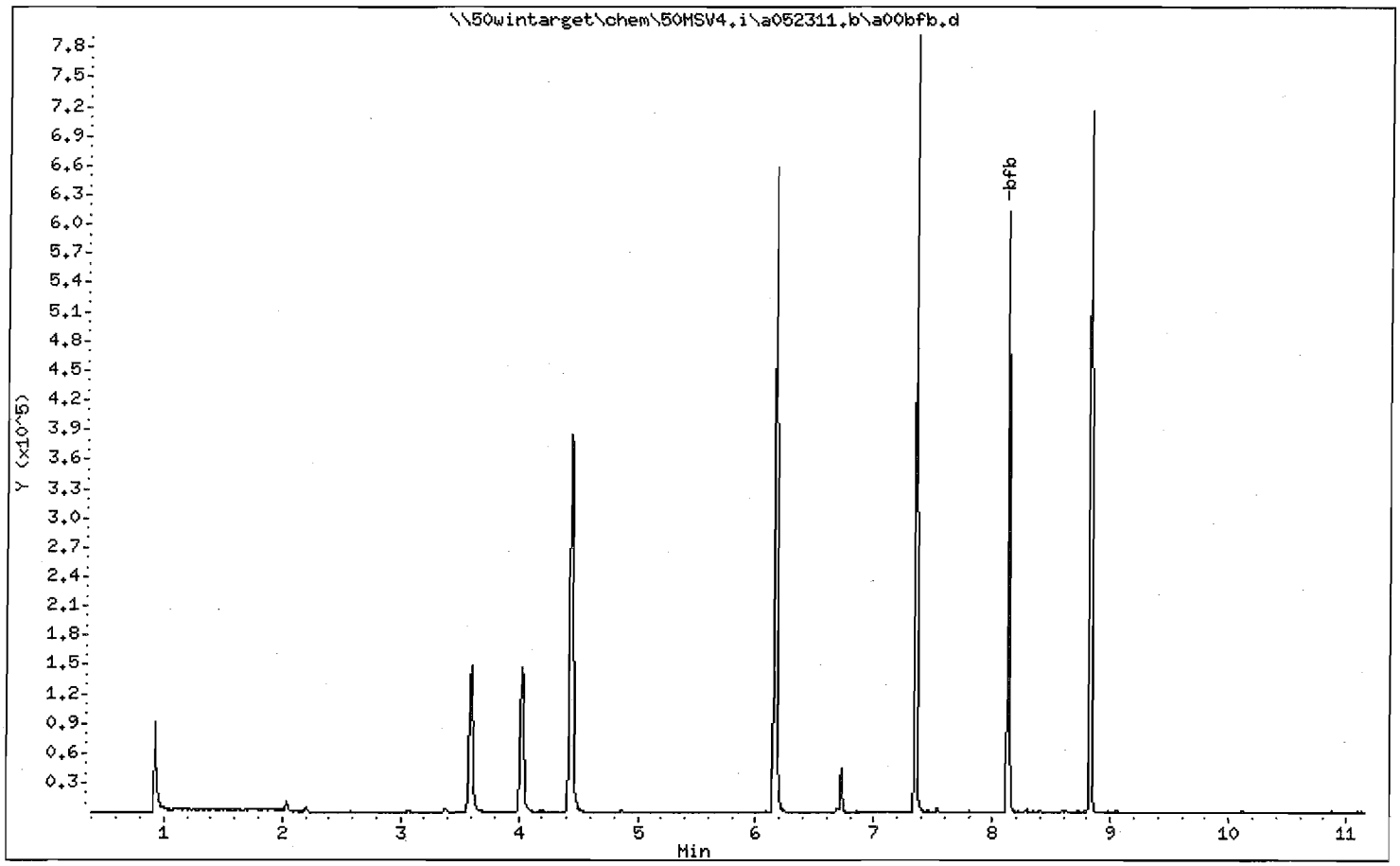
Sample Info: bfb

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a00bfb.d

Date : 23-MAY-2011 12:05

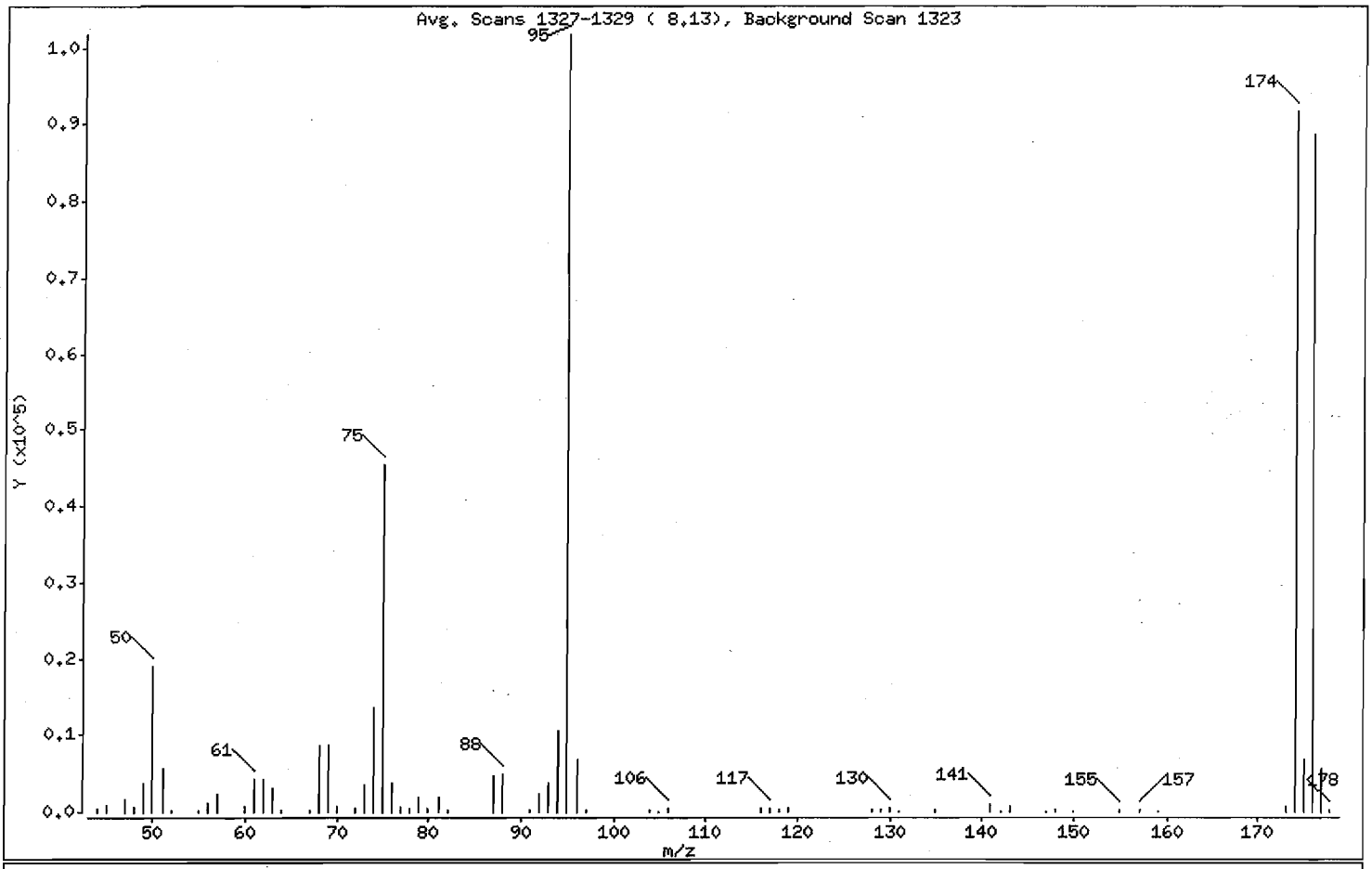
Client ID: bfb050 Instrument: 50MSV4.i

Sample Info: bfb

Volume Injected (uL): 1.0 Operator: grm

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.58
75	30.00 - 60.00% of mass 95	44.50
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.61 (0.68)
174	50.00 - 100.00% of mass 95	90.07
175	5.00 - 9.00% of mass 174	6.60 (7.33)
176	95.00 - 101.00% of mass 174	87.15 (96.75)
177	5.00 - 9.00% of mass 176	5.52 (6.33)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a00bfb.d

Date : 23-MAY-2011 12:05

Client ID: bfb050 | Instrument: 50MSV4.i

Sample Info: bfb

Volume Injected (uL): 1.0 | Operator: grm

Column phase: | Column diameter: 2.00

Data File: a00bfb.d

Spectrum: Avg. Scans 1327-1329 (8.13), Background Scan 1323

Location of Maximum: 95.00

Number of points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
44.00	399	68.00	8554	92.00	2381	135.00	132
45.00	972	69.00	8567	93.00	3805	141.00	927
47.00	1643	70.00	628	94.00	10523	142.00	59
48.00	615	72.00	405	95.00	101760	143.00	816
49.00	3679	73.00	3608	96.00	6843	147.00	58
50.00	18904	74.00	13619	97.00	181	148.00	144
51.00	5711	75.00	45280	104.00	321	150.00	69
52.00	258	76.00	3628	105.00	54	155.00	170
55.00	227	77.00	613	106.00	387	157.00	204
56.00	1274	78.00	472	116.00	352	159.00	83
57.00	2379	79.00	1802	117.00	460	173.00	620
60.00	808	80.00	565	118.00	321	174.00	91656
61.00	4279	81.00	1775	119.00	445	175.00	6719
62.00	4237	82.00	348	128.00	324	176.00	88680
63.00	3105	87.00	4739	129.00	119	177.00	5616
64.00	206	88.00	4899	130.00	363	178.00	191
67.00	199	91.00	337	131.00	64		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a01.d
Lab Smp Id: 0.5 ppb 34d-329/332 Client Smp ID: 0.5 ppb
Inj Date : 23-MAY-2011 12:38
Operator : grm Inst ID: 50MSV4.i
Smp Info : 0.5 ppb 34d-329/332
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 09-MAY-2011 19:35 Cal File: a13.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	
1 Dichlorodifluoromethane	85	1.004	1.004	(0.228)	1298	0.50000		(QM)
2 Chloromethane	50	1.091	1.091	(0.247)	1371	0.50000		(M)
3 Vinyl Chloride	62	1.144	1.144	(0.259)	950	0.50000		(QM)
4 Bromomethane	94	1.301	1.295	(0.295)	1029	0.50000		(QM)
5 Chloroethane	64	1.354	1.348	(0.307)	572	0.50000		(M)
6 Trichlorofluoromethane	101	1.476	1.476	(0.335)	1076	0.50000		(QM)
7 1,2-dichlorotrifluoroethane	67	1.610	1.610	(0.365)	735	0.50000		(QM)
8 Diethyl ether	74	1.616	1.616	(0.366)	543	0.50000		(QM)
18 tert-Butyl Alcohol	59	2.094	2.100	(0.474)	165	1.00000		(M)
9 Acrolein	56	1.692	1.692	(0.383)	2046	10.0000		(Q)
10 1,1,2trichlorotrifluoroethane	101	1.744	1.738	(0.395)	464	0.50000		(QM)
11 1,1-Dichloroethene	96	1.750	1.750	(0.397)	646	0.50000		(QM)
12 Acetone	43	1.773	1.773	(0.402)	2036	2.50000		(M)
143 Acetonitrile	41	1.954	1.949	(0.443)	2316	0.50000		(M)
13 Iodomethane	142	1.843	1.843	(0.418)	1014	1.00000		(QM)
14 Carbon Disulfide	76	1.890	1.884	(0.428)	3595	1.00000		(M)
16 Methyl Acetate	43	1.960	1.966	(0.444)	808	0.50000		(M)
15 allyl chloride	41	1.954	1.954	(0.443)	2317	1.00000		(M)
17 Methylene Chloride	84	2.030	2.030	(0.460)	2976	0.50000		(QM)
19 Acrylonitrile	53	2.193	2.193	(0.497)	9220	10.0000		(Q)
20 Methyl-tert-butyl ether	73	2.211	2.211	(0.501)	5354	1.00000		
21 1,2-Dichloroethene (trans)	96	2.211	2.211	(0.501)	1030	0.50000		(QM)
22 n-Hexane	57	2.403	2.403	(0.544)	1432	0.50000		(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	
	147 chloroprene	53	2.601	2.601	(0.589)	1701	0.50000		(QM)
	23 1,1-Dichloroethane	63	2.531	2.525	(0.574)	1731	0.50000		(M)
	24 Vinyl Acetate	43	2.403	2.403	(0.544)	834	2.00000		(M)
	26 1,2-Dichloroethene (cis)	96	3.044	3.044	(0.690)	1115	0.50000		(QM)
	27 2,2-Dichloropropane	77	3.038	3.044	(0.688)	1145	0.50000		(M)
	28 2-Butanone	43	3.062	3.067	(0.694)	3317	2.50000		(M)
	144 Methacrylonitrile	41	3.289	3.295	(0.745)	646	0.50000		(QM)
	30 Bromochloromethane	49	3.289	3.289	(0.745)	1164	0.50000		(QM)
	31 Tetrahydrofuran	42	3.359	3.359	(0.761)	2939	0.50000		(M)
	32 Chloroform	83	3.382	3.382	(0.766)	1733	0.50000		(QM)
$	33 Dibromofluoromethane (S)	113	3.574	3.569	(0.810)	105689	50.0000		(Q)
	34 1,1,1-Trichloroethane	97	3.598	3.592	(0.815)	1231	0.50000		(QM)
	35 Cyclohexane	56	3.656	3.662	(0.828)	1904	0.50000		(Q)
	36 Carbon Tetrachloride	117	3.790	3.802	(0.859)	909	0.50000		(QM)
	37 1,1-Dichloropropene	75	3.796	3.802	(0.860)	1171	0.50000		(M)
	141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.946)	2502	0.50000		(QM)
	39 Benzene	78	4.070	4.070	(0.922)	4005	0.50000		(M)
	40 1,2-Dichloroethane	62	4.093	4.099	(0.927)	1385	0.50000		(M)
	38 Isobutyl alcohol	43	4.163	4.181	(0.943)	208	0.50000		(QM)
*	41 Fluorobenzene	96	4.414	4.414	(1.000)	416457	50.0000		
	42 Trichloroethene	95	4.839	4.839	(1.096)	1105	0.50000		(Q)
	43 Methylcyclohexane	55	5.043	5.049	(1.143)	1286	0.50000		(QM)
	44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	1071	0.50000		(QM)
	45 Dibromomethane	93	5.224	5.218	(1.184)	609	0.50000		(QM)
	46 Methyl methacrylate	69	5.265	5.271	(1.193)	438	0.50000		(QM)
	47 Bromodichloromethane	83	5.405	5.405	(1.224)	1012	0.50000		(QM)
	48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	1193	1.00000		(M)
	49 cis-1,3-Dichloropropene	75	5.888	5.888	(0.802)	1339	0.50000		(M)
	50 4-Methyl-2-Pentanone	43	6.069	6.069	(0.826)	4843	2.50000		(QM)
$	51 Toluene-d8	98	6.151	6.151	(0.837)	398157	50.0000		(Q)
	52 Toluene	91	6.221	6.215	(0.847)	4648	0.50000		(Q)
	53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	1081	0.50000		(M)
	54 Ethyl Methacrylate	69	6.565	6.570	(0.894)	874	0.50000		(M)
	55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	756	0.50000		(QM)
	56 Tetrachloroethene	166	6.716	6.716	(0.914)	2254	0.50000		(Q)
	57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	1370	0.50000		(QM)
	58 2-Hexanone	43	6.844	6.844	(0.932)	3221	2.50000		(QM)
	59 Dibromochloromethane	129	6.920	6.926	(0.942)	825	0.50000		(Q)
	60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	800	0.50000		(QM)
*	61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	314704	50.0000		(Q)
	62 Chlorobenzene	112	7.363	7.363	(1.002)	2796	0.50000		(QM)
	63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	783	0.50000		(QM)
	64 Ethylbenzene	106	7.450	7.451	(1.014)	1219	0.50000		(Q)
	65 m&p-Xylene	106	7.532	7.532	(1.025)	3332	1.00000		(QM)
	67 o-Xylene	106	7.789	7.789	(1.060)	1736	0.50000		(QM)
	68 Styrene	104	7.800	7.800	(1.062)	2279	0.50000		(Q)
	69 Bromoform	173	7.911	7.917	(0.898)	429	0.50000		(QM)
	70 Isopropylbenzene	105	8.028	8.028	(1.093)	3705	0.50000		(Q)
$	72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	138793	50.0000		(Q)
	74 Bromobenzene	77	8.208	8.208	(1.117)	1726	0.50000		(Q)
	73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.933)	1024	0.50000		(QM)
	75 1,2,3-Trichloropropane	75	8.237	8.243	(0.935)	997	0.50000		(M)
	71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	249	0.50000		(QM)
	76 n-Propylbenzene	91	8.278	8.284	(0.939)	4198	0.50000		(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	
77 2-Chlorotoluene	91	8.325	8.331	(0.944)	2369	0.50000		(QM)
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.952)	2472	0.50000		(Q)
79 4-Chlorotoluene	126	8.395	8.401	(0.952)	776	0.50000		(QM)
80 tert-Butylbenzene	119	8.581	8.587	(0.974)	2582	0.50000		(QM)
81 1,2,4-Trimethylbenzene	105	8.610	8.616	(0.977)	2794	0.50000		(Q)
82 sec-Butylbenzene	105	8.709	8.715	(0.988)	2862	0.50000		(M)
83 1,3-Dichlorobenzene	146	8.774	8.779	(0.995)	1520	0.50000		(QM)
84 p-Isopropyltoluene	119	8.797	8.803	(0.998)	2203	0.50000		(QM)
* 85 1,4-Dichlorobenzene-d4	152	8.814	8.820	(1.000)	142829	50.0000		(Q)
86 1,4-Dichlorobenzene	146	8.826	8.832	(1.001)	1759	0.50000		(Q)
87 n-Butylbenzene	91	9.036	9.042	(1.025)	1068	0.50000		(QM)
88 1,2-Dichlorobenzene	146	9.048	9.053	(1.026)	1518	0.50000		(QM)
90 1,2,4-Trichlorobenzene	180	9.998	10.003	(1.134)	65	0.50000		(M)
91 Hexachlorobutadiene	225	10.091	10.108	(1.145)	278	0.50000		(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a01.d
Lab Smp Id: 0.5 ppb 34d-329/332
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: 0.5 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	440486	220243	880972	416457	-5.46
61 Chlorobenzene-d5	332162	166081	664324	314704	-5.26
85 1,4-Dichlorobenze	162844	81422	325688	142829	-12.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	-0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	-0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.81	-0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 0.5 ppb 34d-329/332
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 0.5 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.000	
74-87-3	Chloromethane	0.000	
75-01-4	Vinyl Chloride	0.000	
74-83-9	Bromomethane	0.000	
75-00-3	Chloroethane	0.000	
75-69-4	Trichlorofluoromethane	0.000	
354-23-4	1,2-dichlorotrifluoroethane	0.000	
60-29-7	Diethyl ether	0.000	
75-65-0	tert-Butyl Alcohol	0.000	
107-02-8	Acrolein	0.000	
76-13-1	1,1,2trichlorotrifluoroethan	0.000	
75-35-4	1,1-Dichloroethene	0.000	
67-64-1	Acetone	0.000	
75-05-8	Acetonitrile	0.000	
----------	Iodomethane	0.000	
75-15-0	Carbon Disulfide	0.000	
79-20-9	Methyl Acetate	0.000	
107-05-1	allyl chloride	0.000	
75-09-2	Methylene Chloride	0.000	
107-13-1	Acrylonitrile	0.000	
1634-04-4	Methyl-tert-butyl ether	0.000	
156-60-5	1,2-Dichloroethene (trans)	0.000	
----------	n-Hexane	0.000	
126-99-8	chloroprene	0.000	
75-34-3	1,1-Dichloroethane	0.000	
108-05-4	Vinyl Acetate	0.000	
156-59-2	1,2-Dichloroethene (cis)	0.000	
594-20-7	2,2-Dichloropropane	0.000	
78-93-3	2-Butanone	0.000	
126-98-7	Methacrylonitrile	0.000	
74-97-5	Bromochloromethane	0.000	
----------	Tetrahydrofuran	0.000	
67-66-3	Chloroform	0.000	
71-55-6	1,1,1-Trichloroethane	0.000	
110-82-7	Cyclohexane	0.000	
56-23-5	Carbon Tetrachloride	0.000	
563-58-6	1,1-Dichloropropene	0.000	
540-84-1	2,2,4-Trimethylpentane	0.000	
71-43-2	Benzene	0.000	
107-06-2	1,2-Dichloroethane	0.000	
78-83-1	Isobutyl alcohol	0.000	
79-01-6	Trichloroethene	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 0.5 ppb 34d-329/332
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 0.5 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	0.000	
78-87-5	1,2-Dichloropropane	0.000	
74-95-3	Dibromomethane	0.000	
80-62-6	Methyl methacrylate	0.000	
75-27-4	Bromodichloromethane	0.000	
110-75-8	2-Chloroethyl vinyl ether	0.000	
10061-01-5	cis-1,3-Dichloropropene	0.000	
108-10-1	4-Methyl-2-Pentanone	0.000	
108-88-3	Toluene	0.000	
10061-02-6	trans-1,3-Dichloropropene	0.000	
	Ethyl Methacrylate	0.000	
79-00-5	1,1,2-Trichloroethane	0.000	
127-18-4	Tetrachloroethene	0.000	
142-28-9	1,3-Dichloropropane	0.000	
591-78-6	2-Hexanone	0.000	
124-48-1	Dibromochloromethane	0.000	
106-93-4	1,2-Dibromoethane	0.000	
108-90-7	Chlorobenzene	0.000	
630-20-6	1,1,1,2-Tetrachloroethane	0.000	
100-41-4	Ethylbenzene	0.000	
7816-60-0	m&p-Xylene	0.000	
95-47-6	o-Xylene	0.000	
100-42-5	Styrene	0.000	
75-25-2	Bromoform	0.000	
98-82-8	Isopropylbenzene	0.000	
108-86-1	Bromobenzene	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	0.000	
96-18-4	1,2,3-Trichloropropane	0.000	
	trans-1,4-Dichloro-2-butene	0.000	
103-65-1	n-Propylbenzene	0.000	
95-49-8	2-Chlorotoluene	0.000	
108-67-8	1,3,5-Trimethylbenzene	0.000	
106-43-4	4-Chlorotoluene	0.000	
98-06-6	tert-Butylbenzene	0.000	
95-63-6	1,2,4-Trimethylbenzene	0.000	
135-98-8	sec-Butylbenzene	0.000	
541-73-1	1,3-Dichlorobenzene	0.000	
99-87-6	p-Isopropyltoluene	0.000	
106-46-7	1,4-Dichlorobenzene	0.000	
104-51-8	n-Butylbenzene	0.000	
95-50-1	1,2-Dichlorobenzene	0.000	
120-82-1	1,2,4-Trichlorobenzene	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

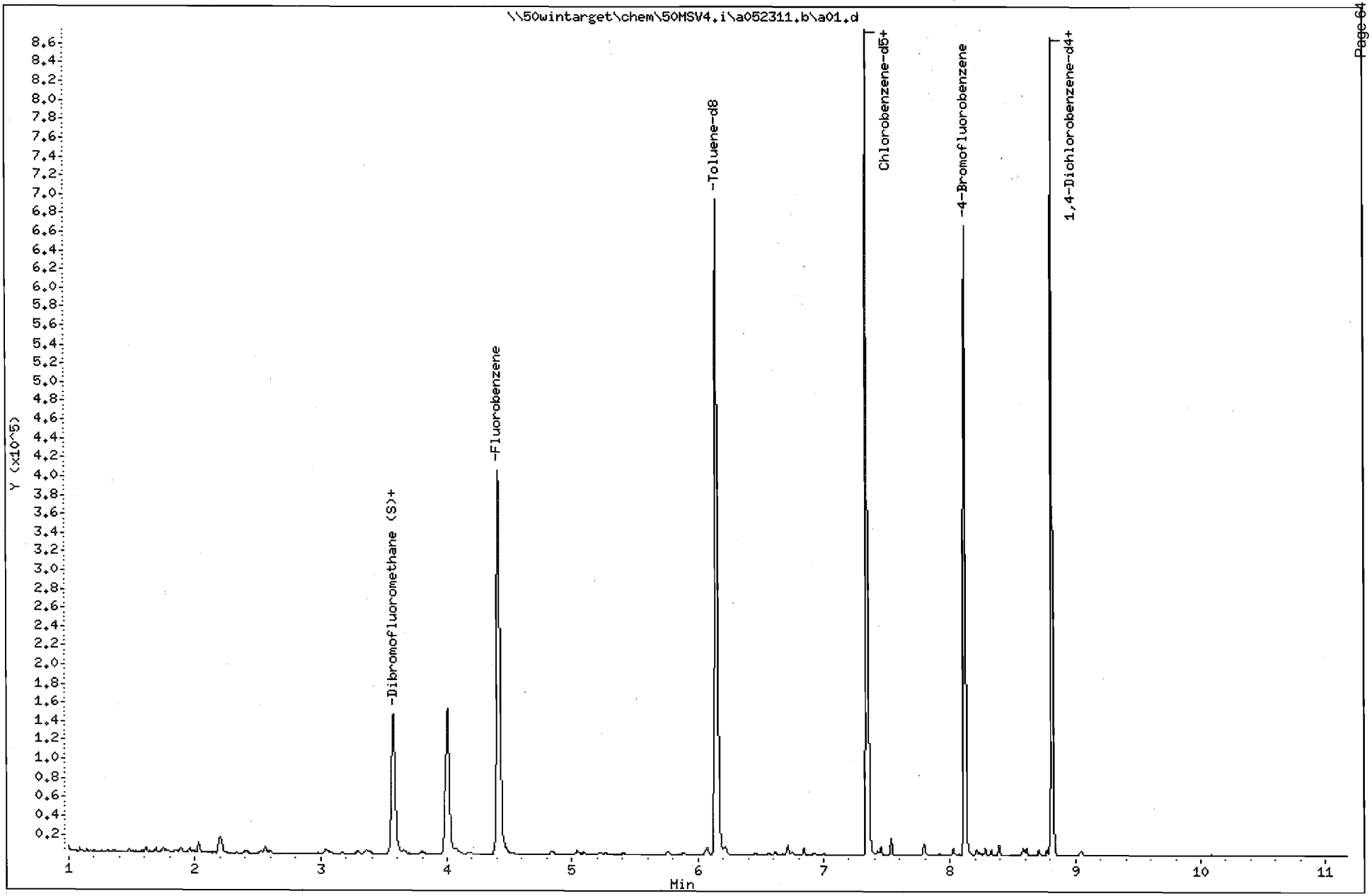
Client Name:
Lab Smp Id: 0.5 ppb 34d-329/332
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 0.5 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
87-68-3	Hexachlorobutadiene	0.000	
1868-53-7	Dibromofluoromethane (S)	0.000	
2037-26-5	Toluene-d8	0.000	
460-00-4	4-Bromofluorobenzene	0.000	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a01.d
Date : 23-MAY-2011 12:38
Client ID: 0.5 ppb
Sample Info: 0.5 ppb 34d-329/332
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a01.d

Date : 23-MAY-2011 12:38

Client ID: 0.5 ppb

Instrument: 50MSV4.i

Sample Info: 0.5 ppb 34d-329/332

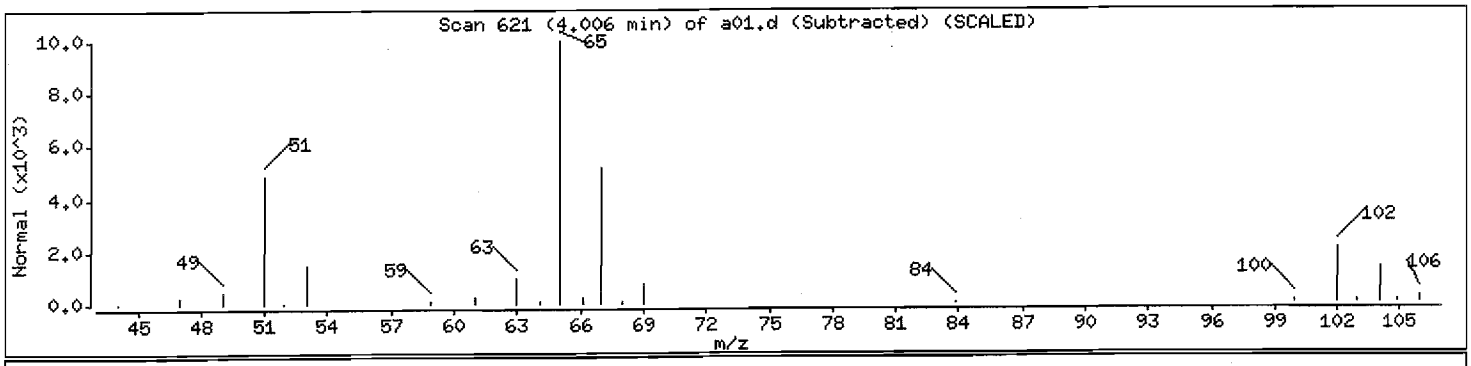
Purge Volume: 5.0

Operator: grm

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a02.d
Lab Smp Id: 1 ppb Client Smp ID: 1 ppb
Inj Date : 23-MAY-2011 13:12
Operator : grm Inst ID: 50MSV4.i
Smp Info : 1 ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 09-MAY-2011 19:35 Cal File: a13.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.228)	2441	1.00000	0.936(M)
2 Chloromethane	50	1.092	1.091	(0.247)	2767	1.00000	1.00(M)
3 Vinyl Chloride	62	1.144	1.144	(0.259)	1876	1.00000	0.982(M)
4 Bromomethane	94	1.301	1.295	(0.295)	1445	1.00000	0.699(M)
5 Chloroethane	64	1.348	1.348	(0.305)	1034	1.00000	0.899(M)
6 Trichlorofluoromethane	101	1.476	1.476	(0.335)	2189	1.00000	1.01
7 1,2-dichlorotrifluoroethane	67	1.610	1.610	(0.365)	1376	1.00000	0.932(M)
8 Diethyl ether	74	1.616	1.616	(0.366)	917	1.00000	0.840(QM)
18 tert-Butyl Alcohol	59	2.094	2.100	(0.474)	385	2.00000	2.32(M)
9 Acrolein	56	1.692	1.692	(0.383)	4004	20.0000	19.5
10 1,1,2trichlorotrifluoroethane	101	1.744	1.738	(0.395)	1198	1.00000	1.28
11 1,1-Dichloroethene	96	1.750	1.750	(0.397)	1174	1.00000	0.904(M)
12 Acetone	43	1.774	1.773	(0.402)	3543	5.00000	4.33(M)
143 Acetonitrile	41	1.954	1.949	(0.443)	4203	1.00000	0.903(M)
13 Iodomethane	142	1.843	1.843	(0.418)	1284	2.00000	1.26(M)
14 Carbon Disulfide	76	1.890	1.884	(0.428)	6494	2.00000	1.80(M)
16 Methyl Acetate	43	1.966	1.966	(0.445)	1299	1.00000	0.800(M)
15 allyl chloride	41	1.954	1.954	(0.443)	4203	2.00000	1.80(M)
17 Methylene Chloride	84	2.030	2.030	(0.460)	3365	1.00000	0.563(M)
19 Acrylonitrile	53	2.193	2.193	(0.497)	19892	20.0000	21.5
20 Methyl-tert-butyl ether	73	2.211	2.211	(0.501)	9737	2.00000	1.81
21 1,2-Dichloroethene (trans)	96	2.217	2.211	(0.502)	1823	1.00000	0.881(M)
22 n-Hexane	57	2.403	2.403	(0.544)	2144	1.00000	0.745(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
147 chloroprene	53	2.601	2.601	(0.589)	3482	1.00000	1.02(M)
23 1,1-Dichloroethane	63	2.525	2.525	(0.572)	4076	1.00000	1.17(M)
24 Vinyl Acetate	43	2.403	2.403	(0.544)	1613	4.00000	3.85(M)
26 1,2-Dichloroethene (cis)	96	3.050	3.044	(0.691)	2329	1.00000	1.04
27 2,2-Dichloropropane	77	3.044	3.044	(0.690)	2092	1.00000	0.909(M)
28 2-Butanone	43	3.067	3.067	(0.695)	5738	5.00000	4.30(M)
144 Methacrylonitrile	41	3.289	3.295	(0.745)	1391	1.00000	1.07(M)
30 Bromochloromethane	49	3.295	3.289	(0.746)	2057	1.00000	0.879(M)
31 Tetrahydrofuran	42	3.353	3.359	(0.760)	4373	1.00000	0.740
32 Chloroform	83	3.388	3.382	(0.768)	3173	1.00000	0.911
$ 33 Dibromofluoromethane (S)	113	3.575	3.569	(0.810)	105270	50.0000	49.6
34 1,1,1-Trichloroethane	97	3.592	3.592	(0.814)	2265	1.00000	0.916
35 Cyclohexane	56	3.656	3.662	(0.828)	3742	1.00000	0.978
36 Carbon Tetrachloride	117	3.802	3.802	(0.861)	1908	1.00000	1.04(M)
37 1,1-Dichloropropene	75	3.802	3.802	(0.861)	2323	1.00000	0.987(M)
141 2,2,4-Trimethylpentane	57	4.187	4.175	(0.949)	4758	1.00000	0.946
39 Benzene	78	4.076	4.070	(0.923)	7923	1.00000	0.984
40 1,2-Dichloroethane	62	4.099	4.099	(0.929)	2526	1.00000	0.907(M)
38 Isobutyl alcohol	43	4.181	4.181	(0.947)	786	1.00000	1.88(QM)
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	418489	50.0000	
42 Trichloroethene	95	4.845	4.839	(1.098)	2148	1.00000	0.967
43 Methylcyclohexane	55	5.049	5.049	(1.144)	2302	1.00000	0.891(M)
44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	2069	1.00000	0.961(M)
45 Dibromomethane	93	5.230	5.218	(1.185)	1263	1.00000	1.03
46 Methyl methacrylate	69	5.271	5.271	(1.194)	1072	1.00000	1.22(M)
47 Bromodichloromethane	83	5.411	5.405	(1.226)	1891	1.00000	0.930(M)
48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	2584	2.00000	2.22(M)
49 cis-1,3-Dichloropropene	75	5.889	5.888	(0.802)	2222	1.00000	0.852(M)
50 4-Methyl-2-Pentanone	43	6.075	6.069	(0.827)	9600	5.00000	5.09
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	397453	50.0000	51.2
52 Toluene	91	6.221	6.215	(0.847)	8738	1.00000	0.965
53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	2059	1.00000	0.978(M)
54 Ethyl Methacrylate	69	6.570	6.570	(0.894)	1801	1.00000	1.06(M)
55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	1475	1.00000	1.00(M)
56 Tetrachloroethene	166	6.716	6.716	(0.914)	3079	1.00000	0.701
57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	2911	1.00000	1.09(M)
58 2-Hexanone	43	6.844	6.844	(0.932)	6378	5.00000	5.08(M)
59 Dibromochloromethane	129	6.926	6.926	(0.943)	1567	1.00000	0.975
60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	1539	1.00000	0.987
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	306579	50.0000	
62 Chlorobenzene	112	7.363	7.363	(1.002)	5385	1.00000	0.988(Q)
63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	1586	1.00000	1.04
64 Ethylbenzene	106	7.451	7.451	(1.014)	2676	1.00000	1.13(Q)
65 m&p-Xylene	106	7.532	7.532	(1.025)	6591	2.00000	2.03(M)
67 o-Xylene	106	7.789	7.789	(1.060)	3260	1.00000	0.964
68 Styrene	104	7.800	7.800	(1.062)	5122	1.00000	1.15
69 Bromoform	173	7.911	7.917	(0.898)	707	1.00000	0.834(M)
70 Isopropylbenzene	105	8.028	8.028	(1.093)	7602	1.00000	1.05
$ 72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	140726	50.0000	52.0
74 Bromobenzene	77	8.203	8.208	(1.117)	2866	1.00000	0.852
73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.933)	1905	1.00000	0.942
75 1,2,3-Trichloropropane	75	8.243	8.243	(0.935)	1923	1.00000	0.976(M)
71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	329	1.00000	0.678(QM)
76 n-Propylbenzene	91	8.278	8.284	(0.939)	7910	1.00000	0.954

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
77 2-Chlorotoluene	91	8.331	8.331	(0.945)	4692	1.00000	1.00
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.952)	5004	1.00000	1.02
79 4-Chlorotoluene	126	8.395	8.401	(0.952)	1829	1.00000	1.19(Q)
80 tert-Butylbenzene	119	8.581	8.587	(0.974)	5659	1.00000	1.11(M)
81 1,2,4-Trimethylbenzene	105	8.611	8.616	(0.977)	5154	1.00000	0.934
82 sec-Butylbenzene	105	8.710	8.715	(0.988)	5237	1.00000	0.926
83 1,3-Dichlorobenzene	146	8.774	8.779	(0.995)	3045	1.00000	1.01
84 p-Isopropyltoluene	119	8.797	8.803	(0.998)	4504	1.00000	1.03
* 85 1,4-Dichlorobenzene-d4	152	8.815	8.820	(1.000)	141095	50.0000	
86 1,4-Dichlorobenzene	146	8.826	8.832	(1.001)	3186	1.00000	0.917(Q)
87 n-Butylbenzene	91	9.036	9.042	(1.025)	2390	1.00000	1.13(M)
88 1,2-Dichlorobenzene	146	9.048	9.053	(1.026)	3071	1.00000	1.02(M)
89 1,2-Dibromo-3-chloropropane	155	9.502	9.514	(1.078)	92	1.00000	(QM)
90 1,2,4-Trichlorobenzene	180	9.992	10.003	(1.134)	208	1.00000	1.62(QM)
91 Hexachlorobutadiene	225	10.091	10.108	(1.145)	528	1.00000	0.961(QM)
92 Naphthalene	128	10.149	10.155	(1.151)	104	1.00000	(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a02.d
Lab Smp Id: 1 ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: 1 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	440486	220243	880972	418489	-4.99
61 Chlorobenzene-d5	332162	166081	664324	306579	-7.70
85 1,4-Dichlorobenze	162844	81422	325688	141095	-13.36

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 1 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.936	
74-87-3	Chloromethane	1.00	
75-01-4	Vinyl Chloride	0.982	
74-83-9	Bromomethane	0.699	
75-00-3	Chloroethane	0.899	
75-69-4	Trichlorofluoromethane	1.01	
354-23-4	1,2-dichlorotrifluoroethane	0.932	
60-29-7	Diethyl ether	0.840	
75-65-0	tert-Butyl Alcohol	2.32	
107-02-8	Acrolein	19.5	
76-13-1	1,1,2trichlorotrifluoroethan	1.28	
75-35-4	1,1-Dichloroethene	0.904	
67-64-1	Acetone	4.33	
75-05-8	Acetonitrile	0.903	
	Iodomethane	1.26	
75-15-0	Carbon Disulfide	1.80	
79-20-9	Methyl Acetate	0.800	
107-05-1	allyl chloride	1.80	
75-09-2	Methylene Chloride	0.563	
107-13-1	Acrylonitrile	21.5	
1634-04-4	Methyl-tert-butyl ether	1.81	
156-60-5	1,2-Dichloroethene (trans)	0.881	
	n-Hexane	0.745	
126-99-8	chloroprene	1.02	
75-34-3	1,1-Dichloroethane	1.17	
108-05-4	Vinyl Acetate	3.85	
156-59-2	1,2-Dichloroethene (cis)	1.04	
594-20-7	2,2-Dichloropropane	0.909	
78-93-3	2-Butanone	4.30	
126-98-7	Methacrylonitrile	1.07	
74-97-5	Bromochloromethane	0.879	
	Tetrahydrofuran	0.740	
67-66-3	Chloroform	0.911	
71-55-6	1,1,1-Trichloroethane	0.916	
110-82-7	Cyclohexane	0.978	
56-23-5	Carbon Tetrachloride	1.04	
563-58-6	1,1-Dichloropropene	0.987	
540-84-1	2,2,4-Trimethylpentane	0.946	
71-43-2	Benzene	0.984	
107-06-2	1,2-Dichloroethane	0.907	
78-83-1	Isobutyl alcohol	1.88	
79-01-6	Trichloroethene	0.967	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 1 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	0.891	
78-87-5	1,2-Dichloropropane	0.961	
74-95-3	Dibromomethane	1.03	
80-62-6	Methyl methacrylate	1.22	
75-27-4	Bromodichloromethane	0.930	
110-75-8	2-Chloroethyl vinyl ether	2.22	
10061-01-5	cis-1,3-Dichloropropene	0.852	
108-10-1	4-Methyl-2-Pentanone	5.09	
108-88-3	Toluene	0.965	
10061-02-6	trans-1,3-Dichloropropene	0.978	
	Ethyl Methacrylate	1.06	
79-00-5	1,1,2-Trichloroethane	1.00	
127-18-4	Tetrachloroethene	0.701	
142-28-9	1,3-Dichloropropane	1.09	
591-78-6	2-Hexanone	5.08	
124-48-1	Dibromochloromethane	0.975	
106-93-4	1,2-Dibromoethane	0.987	
108-90-7	Chlorobenzene	0.988	
630-20-6	1,1,1,2-Tetrachloroethane	1.04	
100-41-4	Ethylbenzene	1.13	
7816-60-0	m&p-Xylene	2.03	
95-47-6	o-Xylene	0.964	
100-42-5	Styrene	1.15	
75-25-2	Bromoform	0.834	
98-82-8	Isopropylbenzene	1.05	
108-86-1	Bromobenzene	0.852	
79-34-5	1,1,2,2-Tetrachloroethane	0.942	
96-18-4	1,2,3-Trichloropropane	0.976	
	trans-1,4-Dichloro-2-butene	0.678	
103-65-1	n-Propylbenzene	0.954	
95-49-8	2-Chlorotoluene	1.00	
108-67-8	1,3,5-Trimethylbenzene	1.02	
106-43-4	4-Chlorotoluene	1.19	
98-06-6	tert-Butylbenzene	1.11	
95-63-6	1,2,4-Trimethylbenzene	0.934	
135-98-8	sec-Butylbenzene	0.926	
541-73-1	1,3-Dichlorobenzene	1.01	
99-87-6	p-Isopropyltoluene	1.03	
106-46-7	1,4-Dichlorobenzene	0.917	
104-51-8	n-Butylbenzene	1.13	
95-50-1	1,2-Dichlorobenzene	1.02	
96-12-8	1,2-Dibromo-3-chloropropane	0.000	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

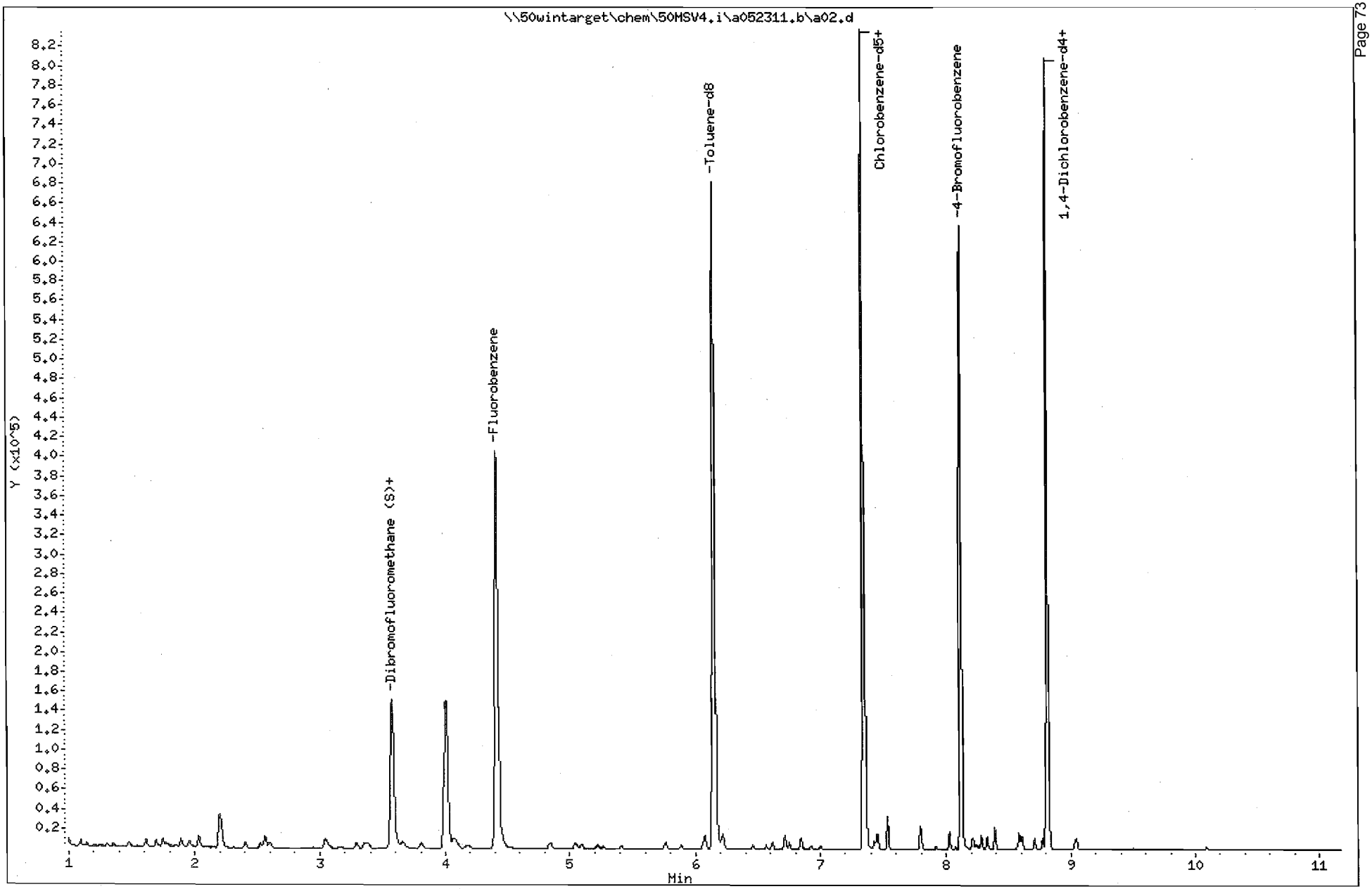
Client Name:
Lab Smp Id: 1 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 1 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	1.62	
87-68-3	Hexachlorobutadiene	0.961	
91-20-3	Naphthalene	0.000	
1868-53-7	Dibromofluoromethane (S)	49.6	
2037-26-5	Toluene-d8	51.2	
460-00-4	4-Bromofluorobenzene	52.0	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a02.d
Date : 23-MAY-2011 13:12
Client ID: 1 ppb
Sample Info: 1 ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a02.d

Date : 23-MAY-2011 13:12

Client ID: 1 ppb

Instrument: 50MSV4.i

Sample Info: 1 ppb

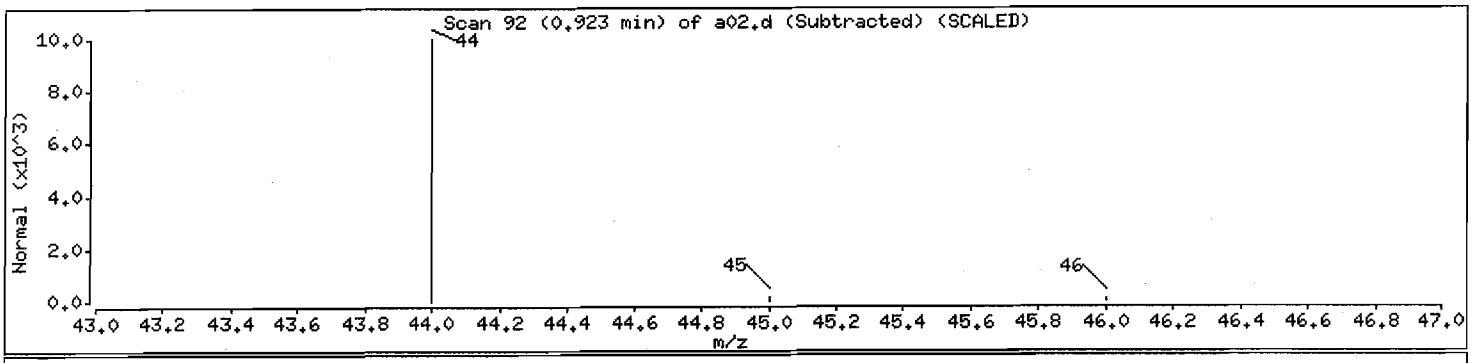
Purge Volume: 5.0

Operator: grm

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a03.d
Lab Smp Id: 2 ppb Client Smp ID: 2 ppb
Inj Date : 23-MAY-2011 13:45
Operator : grm Inst ID: 50MSV4.i
Smp Info : 2 ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 09-MAY-2011 19:35 Cal File: a13.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.227)	5633	2.00000	2.23(M)
2 Chloromethane	50	1.091	1.091	(0.247)	5252	2.00000	1.90
3 Vinyl Chloride	62	1.144	1.144	(0.259)	3805	2.00000	2.01
4 Bromomethane	94	1.307	1.295	(0.296)	2324	2.00000	1.32(M)
5 Chloroethane	64	1.354	1.348	(0.306)	1991	2.00000	1.82(M)
6 Trichlorofluoromethane	101	1.476	1.476	(0.334)	4657	2.00000	2.14
7 1,2-dichlorotrifluoroethane	67	1.610	1.610	(0.364)	3053	2.00000	2.14(M)
8 Diethyl ether	74	1.616	1.616	(0.366)	1560	2.00000	1.55
18 tert-Butyl Alcohol	59	2.100	2.100	(0.475)	817	4.00000	4.55(M)
9 Acrolein	56	1.692	1.692	(0.383)	7206	40.0000	35.4
10 1,1,2trichlorotrifluoroethane	101	1.738	1.738	(0.393)	2535	2.00000	2.37
11 1,1-Dichloroethene	96	1.750	1.750	(0.396)	2467	2.00000	1.99(M)
12 Acetone	43	1.773	1.773	(0.401)	5307	10.0000	6.94
143 Acetonitrile	41	1.954	1.949	(0.442)	8599	2.00000	1.94(M)
13 Iodomethane	142	1.849	1.843	(0.418)	2883	4.00000	3.46
14 Carbon Disulfide	76	1.890	1.884	(0.428)	13336	4.00000	3.88(M)
16 Methyl Acetate	43	1.966	1.966	(0.445)	2391	2.00000	1.63(M)
15 allyl chloride	41	1.954	1.954	(0.442)	8408	4.00000	3.79(M)
17 Methylene Chloride	84	2.030	2.030	(0.459)	4711	2.00000	1.01(M)
19 Acrylonitrile	53	2.193	2.193	(0.496)	38298	40.0000	39.8
20 Methyl-tert-butyl ether	73	2.211	2.211	(0.500)	20419	4.00000	3.98
21 1,2-Dichloroethene (trans)	96	2.216	2.211	(0.502)	4352	2.00000	2.23(M)
22 n-Hexane	57	2.409	2.403	(0.545)	4707	2.00000	1.87(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	147 chloroprene	53	2.601	2.601	(0.589)	7354	2.00000	2.13
	23 1,1-Dichloroethane	63	2.525	2.525	(0.571)	7814	2.00000	2.06(M)
	24 Vinyl Acetate	43	2.403	2.403	(0.544)	3158	8.00000	7.66(M)
	26 1,2-Dichloroethene (cis)	96	3.044	3.044	(0.689)	4722	2.00000	2.06
	27 2,2-Dichloropropane	77	3.044	3.044	(0.689)	3816	2.00000	1.73(M)
	28 2-Butanone	43	3.073	3.067	(0.695)	11230	10.0000	9.03(M)
	144 Methacrylonitrile	41	3.295	3.295	(0.746)	2518	2.00000	1.87(M)
	30 Bromochloromethane	49	3.295	3.289	(0.746)	4281	2.00000	1.94
	31 Tetrahydrofuran	42	3.365	3.359	(0.761)	4762	2.00000	0.924
	32 Chloroform	83	3.388	3.382	(0.767)	7203	2.00000	2.16
$	33 Dibromofluoromethane (S)	113	3.574	3.569	(0.809)	107248	50.0000	50.6
	34 1,1,1-Trichloroethane	97	3.592	3.592	(0.813)	5276	2.00000	2.22
	35 Cyclohexane	56	3.662	3.662	(0.829)	7410	2.00000	1.95
	36 Carbon Tetrachloride	117	3.802	3.802	(0.860)	3847	2.00000	2.06(M)
	37 1,1-Dichloropropene	75	3.802	3.802	(0.860)	5383	2.00000	2.30
	141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.945)	9459	2.00000	1.93
	39 Benzene	78	4.070	4.070	(0.921)	16979	2.00000	2.12
	40 1,2-Dichloroethane	62	4.099	4.099	(0.927)	5643	2.00000	2.12(M)
	38 Isobutyl alcohol	43	4.181	4.181	(0.946)	1591	2.00000	2.64(M)
*	41 Fluorobenzene	96	4.420	4.414	(1.000)	419372	50.0000	
	42 Trichloroethene	95	4.845	4.839	(1.096)	3995	2.00000	1.82
	43 Methylcyclohexane	55	5.049	5.049	(1.142)	4748	2.00000	1.94(M)
	44 1,2-Dichloropropane	63	5.096	5.096	(1.153)	4075	2.00000	1.93(M)
	45 Dibromomethane	93	5.224	5.218	(1.182)	2394	2.00000	1.92
	46 Methyl methacrylate	69	5.271	5.271	(1.193)	2085	2.00000	2.13(M)
	47 Bromodichloromethane	83	5.405	5.405	(1.223)	4206	2.00000	2.14(M)
	48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	5066	4.00000	4.13
	49 cis-1,3-Dichloropropene	75	5.888	5.888	(0.802)	4535	2.00000	1.88
	50 4-Methyl-2-Pentanone	43	6.069	6.069	(0.826)	19799	10.0000	10.4
$	51 Toluene-d8	98	6.151	6.151	(0.837)	402712	50.0000	51.3
	52 Toluene	91	6.221	6.215	(0.847)	18177	2.00000	2.04
	53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	3568	2.00000	1.71
	54 Ethyl Methacrylate	69	6.570	6.570	(0.894)	3564	2.00000	2.03(M)
	55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	2735	2.00000	1.86
	56 Tetrachloroethene	166	6.716	6.716	(0.914)	5026	2.00000	1.34
	57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	5753	2.00000	2.06
	58 2-Hexanone	43	6.844	6.844	(0.932)	11853	10.0000	9.37
	59 Dibromochloromethane	129	6.926	6.926	(0.943)	2948	2.00000	1.86
	60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	3375	2.00000	2.18
*	61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	306530	50.0000	
	62 Chlorobenzene	112	7.363	7.363	(1.002)	11490	2.00000	2.12
	63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	2969	2.00000	1.91
	64 Ethylbenzene	106	7.451	7.451	(1.014)	5439	2.00000	2.15
	65 m&p-Xylene	106	7.532	7.532	(1.025)	13631	4.00000	4.17(M)
	67 o-Xylene	106	7.789	7.789	(1.060)	6474	2.00000	1.95
	68 Styrene	104	7.800	7.800	(1.062)	10295	2.00000	2.15
	69 Bromoform	173	7.911	7.917	(0.898)	1479	2.00000	1.78(M)
	70 Isopropylbenzene	105	8.028	8.028	(1.093)	15035	2.00000	2.03
$	72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	139291	50.0000	50.5
	74 Bromobenzene	77	8.208	8.208	(1.117)	5979	2.00000	1.92
	73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.933)	3841	2.00000	1.83
	75 1,2,3-Trichloropropane	75	8.237	8.243	(0.935)	3889	2.00000	1.87
	71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	1029	2.00000	2.53(QM)
	76 n-Propylbenzene	91	8.278	8.284	(0.939)	15839	2.00000	1.83

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
77 2-Chlorotoluene	91	8.331	8.331	(0.945)	10471	2.00000	2.10
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.952)	10657	2.00000	2.02
79 4-Chlorotoluene	126	8.395	8.401	(0.952)	3797	2.00000	2.12
80 tert-Butylbenzene	119	8.581	8.587	(0.974)	12085	2.00000	2.11
81 1,2,4-Trimethylbenzene	105	8.610	8.616	(0.977)	11273	2.00000	1.98
82 sec-Butylbenzene	105	8.710	8.715	(0.988)	11851	2.00000	2.04
83 1,3-Dichlorobenzene	146	8.774	8.779	(0.995)	6802	2.00000	2.11
84 p-Isopropyltoluene	119	8.797	8.803	(0.998)	10317	2.00000	2.18
* 85 1,4-Dichlorobenzene-d4	152	8.814	8.820	(1.000)	150401	50.0000	
86 1,4-Dichlorobenzene	146	8.826	8.832	(1.001)	6517	2.00000	1.84
87 n-Butylbenzene	91	9.036	9.042	(1.025)	5729	2.00000	2.39
88 1,2-Dichlorobenzene	146	9.048	9.053	(1.026)	6252	2.00000	1.93
89 1,2-Dibromo-3-chloropropane	155	9.508	9.514	(1.079)	341	2.00000	3.48 (QM)
90 1,2,4-Trichlorobenzene	180	9.998	10.003	(1.134)	729	2.00000	4.06 (M)
91 Hexachlorobutadiene	225	10.097	10.108	(1.145)	929	2.00000	1.62 (M)
92 Naphthalene	128	10.143	10.155	(1.151)	769	2.00000	6.94 (M)
93 1,2,3-Trichlorobenzene	180	10.289	10.301	(1.167)	402	2.00000	(QM)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a03.d
Lab Smp Id: 2 ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: 2 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	440486	220243	880972	419372	-4.79
61 Chlorobenzene-d5	332162	166081	664324	306530	-7.72
85 1,4-Dichlorobenze	162844	81422	325688	150401	-7.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.42	0.13
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	-0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.81	-0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 2 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	2.23	
74-87-3	Chloromethane	1.90	
75-01-4	Vinyl Chloride	2.01	
74-83-9	Bromomethane	1.32	
75-00-3	Chloroethane	1.82	
75-69-4	Trichlorofluoromethane	2.14	
354-23-4	1,2-dichlorotrifluoroethane	2.14	
60-29-7	Diethyl ether	1.55	
75-65-0	tert-Butyl Alcohol	4.55	
107-02-8	Acrolein	35.4	
76-13-1	1,1,2trichlorotrifluoroethan	2.37	
75-35-4	1,1-Dichloroethene	1.99	
67-64-1	Acetone	6.94	
75-05-8	Acetonitrile	1.94	
	Iodomethane	3.46	
75-15-0	Carbon Disulfide	3.88	
79-20-9	Methyl Acetate	1.63	
107-05-1	allyl chloride	3.79	
75-09-2	Methylene Chloride	1.01	
107-13-1	Acrylonitrile	39.8	
1634-04-4	Methyl-tert-butyl ether	3.98	
156-60-5	1,2-Dichloroethene (trans)	2.23	
	n-Hexane	1.87	
126-99-8	chloroprene	2.13	
75-34-3	1,1-Dichloroethane	2.06	
108-05-4	Vinyl Acetate	7.66	
156-59-2	1,2-Dichloroethene (cis)	2.06	
594-20-7	2,2-Dichloropropane	1.73	
78-93-3	2-Butanone	9.03	
126-98-7	Methacrylonitrile	1.87	
74-97-5	Bromochloromethane	1.94	
	Tetrahydrofuran	0.924	
67-66-3	Chloroform	2.16	
71-55-6	1,1,1-Trichloroethane	2.22	
110-82-7	Cyclohexane	1.95	
56-23-5	Carbon Tetrachloride	2.06	
563-58-6	1,1-Dichloropropene	2.30	
540-84-1	2,2,4-Trimethylpentane	1.93	
71-43-2	Benzene	2.12	
107-06-2	1,2-Dichloroethane	2.12	
78-83-1	Isobutyl alcohol	2.64	
79-01-6	Trichloroethene	1.82	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 2 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	1.94	
78-87-5	1,2-Dichloropropane	1.93	
74-95-3	Dibromomethane	1.92	
80-62-6	Methyl methacrylate	2.13	
75-27-4	Bromodichloromethane	2.14	
110-75-8	2-Chloroethyl vinyl ether	4.13	
10061-01-5	cis-1,3-Dichloropropene	1.88	
108-10-1	4-Methyl-2-Pentanone	10.4	
108-88-3	Toluene	2.04	
10061-02-6	trans-1,3-Dichloropropene	1.71	
	Ethyl Methacrylate	2.03	
79-00-5	1,1,2-Trichloroethane	1.86	
127-18-4	Tetrachloroethene	1.34	
142-28-9	1,3-Dichloropropane	2.06	
591-78-6	2-Hexanone	9.37	
124-48-1	Dibromochloromethane	1.86	
106-93-4	1,2-Dibromoethane	2.18	
108-90-7	Chlorobenzene	2.12	
630-20-6	1,1,1,2-Tetrachloroethane	1.91	
100-41-4	Ethylbenzene	2.15	
7816-60-0	m&p-Xylene	4.17	
95-47-6	o-Xylene	1.95	
100-42-5	Styrene	2.15	
75-25-2	Bromoform	1.78	
98-82-8	Isopropylbenzene	2.03	
108-86-1	Bromobenzene	1.92	
79-34-5	1,1,2,2-Tetrachloroethane	1.83	
96-18-4	1,2,3-Trichloropropane	1.87	
	trans-1,4-Dichloro-2-butene	2.53	
103-65-1	n-Propylbenzene	1.83	
95-49-8	2-Chlorotoluene	2.10	
108-67-8	1,3,5-Trimethylbenzene	2.02	
106-43-4	4-Chlorotoluene	2.12	
98-06-6	tert-Butylbenzene	2.11	
95-63-6	1,2,4-Trimethylbenzene	1.98	
135-98-8	sec-Butylbenzene	2.04	
541-73-1	1,3-Dichlorobenzene	2.11	
99-87-6	p-Isopropyltoluene	2.18	
106-46-7	1,4-Dichlorobenzene	1.84	
104-51-8	n-Butylbenzene	2.39	
95-50-1	1,2-Dichlorobenzene	1.93	
96-12-8	1,2-Dibromo-3-chloropropane	3.48	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

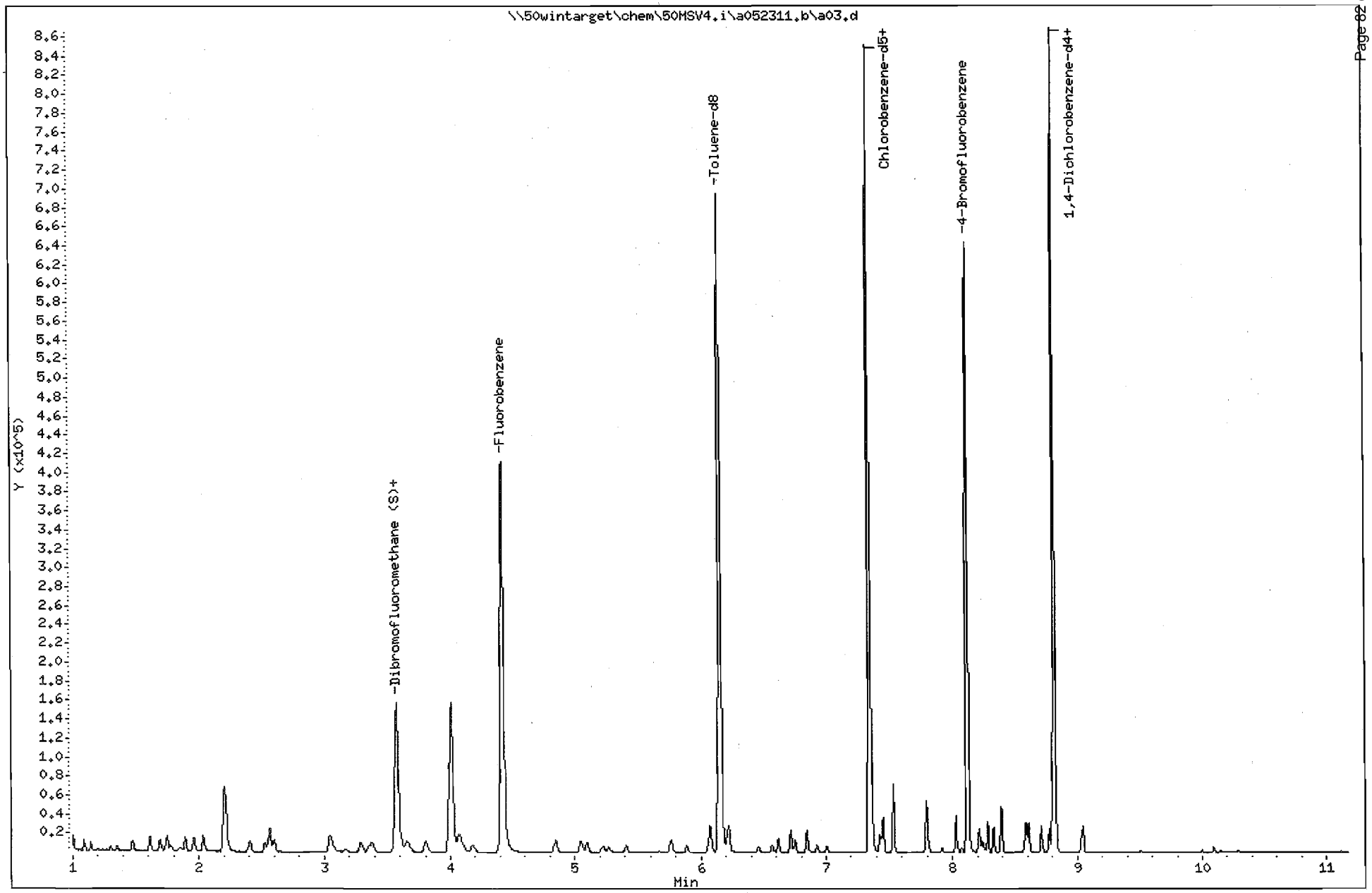
Client Name:
Lab Smp Id: 2 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 2 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	4.06	
87-68-3	Hexachlorobutadiene	1.62	
91-20-3	Naphthalene	6.94	
87-61-6	1,2,3-Trichlorobenzene	0.000	
1868-53-7	Dibromofluoromethane (S)	50.6	
2037-26-5	Toluene-d8	51.3	
460-00-4	4-Bromofluorobenzene	50.5	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a03.d
Date : 23-MAY-2011 13:45
Client ID: 2 ppb
Sample Info: 2 ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a03.d

Date : 23-MAY-2011 13:45

Client ID: 2 ppb

Instrument: 50MSV4.i

Sample Info: 2 ppb

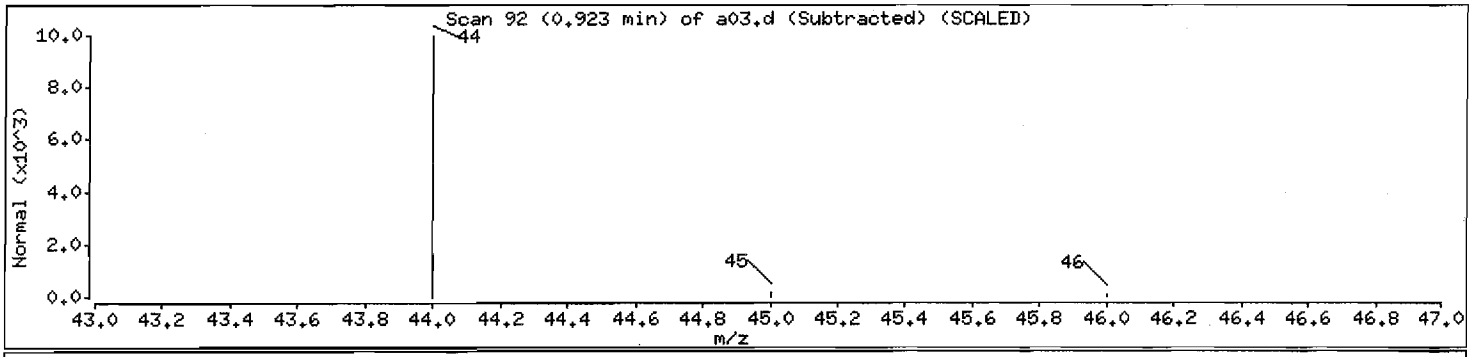
Purge Volume: 5.0

Operator: grm

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a04.d
Lab Smp Id: 5 ppb Client Smp ID: 5 ppb
Inj Date : 23-MAY-2011 14:19
Operator : grm Inst ID: 50MSV4.i
Smp Info : 5 ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 09-MAY-2011 19:35 Cal File: a13.d
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.228)	14912	5.00000	5.78
2 Chloromethane	50	1.092	1.091	(0.247)	13238	5.00000	4.96
3 Vinyl Chloride	62	1.144	1.144	(0.259)	10754	5.00000	5.77
4 Bromomethane	94	1.302	1.295	(0.295)	4271	5.00000	2.79
5 Chloroethane	64	1.348	1.348	(0.305)	5021	5.00000	4.82
6 Trichlorofluoromethane	101	1.476	1.476	(0.335)	12341	5.00000	5.64
7 1,2-dichlorotrifluoroethane	67	1.610	1.610	(0.365)	8054	5.00000	5.61
8 Diethyl ether	74	1.616	1.616	(0.366)	4173	5.00000	4.57
18 tert-Butyl Alcohol	59	2.100	2.100	(0.476)	1614	10.0000	8.76(M)
9 Acrolein	56	1.692	1.692	(0.383)	19479	100.000	101
10 1,1,2trichlorotrifluoroethane	101	1.739	1.738	(0.394)	7181	5.00000	6.45
11 1,1-Dichloroethene	96	1.750	1.750	(0.397)	6646	5.00000	5.47
12 Acetone	43	1.774	1.773	(0.402)	11524	25.0000	17.1
143 Acetonitrile	41	1.954	1.949	(0.443)	21289	5.00000	4.94(M)
13 Iodomethane	142	1.844	1.843	(0.418)	12482	10.0000	16.0
14 Carbon Disulfide	76	1.890	1.884	(0.428)	34068	10.0000	10.2
16 Methyl Acetate	43	1.960	1.966	(0.444)	6282	5.00000	4.65
15 allyl chloride	41	1.954	1.954	(0.443)	22920	10.0000	10.7
17 Methylene Chloride	84	2.030	2.030	(0.460)	8956	5.00000	2.34
19 Acrylonitrile	53	2.193	2.193	(0.497)	104667	100.000	111
20 Methyl-tert-butyl ether	73	2.217	2.211	(0.502)	55762	10.0000	11.1
21 1,2-Dichloroethene (trans)	96	2.211	2.211	(0.501)	10925	5.00000	5.49
22 n-Hexane	57	2.403	2.403	(0.544)	13537	5.00000	5.60

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
147 chloroprene	53	2.601	2.601	(0.589)	19935	5.00000	5.75
23 1,1-Dichloroethane	63	2.526	2.525	(0.572)	21180	5.00000	5.64
24 Vinyl Acetate	43	2.403	2.403	(0.544)	9013	20.0000	22.6
26 1,2-Dichloroethene (cis)	96	3.044	3.044	(0.690)	12656	5.00000	5.57
27 2,2-Dichloropropane	77	3.044	3.044	(0.690)	10275	5.00000	4.98
28 2-Butanone	43	3.068	3.067	(0.695)	29400	25.0000	24.9
144 Methacrylonitrile	41	3.289	3.295	(0.745)	7459	5.00000	5.76(M)
30 Bromochloromethane	49	3.289	3.289	(0.745)	11424	5.00000	5.33
31 Tetrahydrofuran	42	3.359	3.359	(0.761)	6166	5.00000	1.48
32 Chloroform	83	3.382	3.382	(0.766)	19050	5.00000	5.67
$ 33 Dibromofluoromethane (S)	113	3.575	3.569	(0.810)	106630	50.0000	51.0
34 1,1,1-Trichloroethane	97	3.598	3.592	(0.815)	14218	5.00000	5.88
35 Cyclohexane	56	3.662	3.662	(0.830)	20046	5.00000	5.43
36 Carbon Tetrachloride	117	3.802	3.802	(0.861)	10491	5.00000	5.66
37 1,1-Dichloropropene	75	3.802	3.802	(0.861)	13982	5.00000	5.79
141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.946)	26053	5.00000	5.48
39 Benzene	78	4.070	4.070	(0.922)	45498	5.00000	5.68
40 1,2-Dichloroethane	62	4.099	4.099	(0.929)	15298	5.00000	5.74
38 Isobutyl alcohol	43	4.169	4.181	(0.945)	4593	5.00000	7.01(M)
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	411692	50.0000	
42 Trichloroethene	95	4.845	4.839	(1.098)	11383	5.00000	5.46
43 Methylcyclohexane	55	5.044	5.049	(1.143)	13510	5.00000	5.68
44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	12008	5.00000	5.85
45 Dibromomethane	93	5.218	5.218	(1.182)	6900	5.00000	5.72
46 Methyl methacrylate	69	5.271	5.271	(1.194)	5697	5.00000	5.80
47 Bromodichloromethane	83	5.411	5.405	(1.226)	11664	5.00000	5.90(M)
48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	14851	10.0000	11.9
49 cis-1,3-Dichloropropene	75	5.889	5.888	(0.802)	13674	5.00000	5.75
50 4-Methyl-2-Pentanone	43	6.069	6.069	(0.826)	54453	25.0000	28.1
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	392796	50.0000	49.4
52 Toluene	91	6.215	6.215	(0.846)	45965	5.00000	5.10
53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	10430	5.00000	5.23
54 Ethyl Methacrylate	69	6.571	6.570	(0.894)	10813	5.00000	6.11(M)
55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	8271	5.00000	5.72
56 Tetrachloroethene	166	6.716	6.716	(0.914)	14474	5.00000	4.33
57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	15994	5.00000	5.65
58 2-Hexanone	43	6.845	6.844	(0.932)	36062	25.0000	29.0
59 Dibromochloromethane	129	6.926	6.926	(0.943)	8531	5.00000	5.48
60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	9328	5.00000	5.82
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	308059	50.0000	
62 Chlorobenzene	112	7.363	7.363	(1.002)	30956	5.00000	5.57
63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	7972	5.00000	5.18
64 Ethylbenzene	106	7.451	7.451	(1.014)	14592	5.00000	5.61
65 m&p-Xylene	106	7.532	7.532	(1.025)	36538	10.0000	11.0
67 o-Xylene	106	7.795	7.789	(1.061)	18120	5.00000	5.48
68 Styrene	104	7.800	7.800	(1.062)	28531	5.00000	5.79
69 Bromoform	173	7.917	7.917	(0.898)	4461	5.00000	5.55
70 Isopropylbenzene	105	8.028	8.028	(1.093)	40719	5.00000	5.44
$ 72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	143182	50.0000	51.5
74 Bromobenzene	77	8.208	8.208	(1.117)	15570	5.00000	5.04
73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.932)	11816	5.00000	5.77
75 1,2,3-Trichloropropane	75	8.243	8.243	(0.935)	10963	5.00000	5.37
71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	2915	5.00000	6.55(M)
76 n-Propylbenzene	91	8.284	8.284	(0.939)	44427	5.00000	5.26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
77 2-Chlorotoluene	91	8.331	8.331	(0.944)	27393	5.00000	5.37
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.951)	29546	5.00000	5.56
79 4-Chlorotoluene	126	8.401	8.401	(0.952)	10060	5.00000	5.47
80 tert-Butylbenzene	119	8.587	8.587	(0.974)	28333	5.00000	4.83(M)
81 1,2,4-Trimethylbenzene	105	8.611	8.616	(0.976)	29858	5.00000	5.24
82 sec-Butylbenzene	105	8.716	8.715	(0.988)	33593	5.00000	5.72
83 1,3-Dichlorobenzene	146	8.780	8.779	(0.995)	17702	5.00000	5.36
84 p-Isopropyltoluene	119	8.803	8.803	(0.998)	28197	5.00000	5.76
* 85 1,4-Dichlorobenzene-d4	152	8.820	8.820	(1.000)	151225	50.0000	
86 1,4-Dichlorobenzene	146	8.832	8.832	(1.001)	17628	5.00000	5.08
87 n-Butylbenzene	91	9.042	9.042	(1.025)	18495	5.00000	7.20
88 1,2-Dichlorobenzene	146	9.054	9.053	(1.026)	16476	5.00000	5.12
89 1,2-Dibromo-3-chloropropane	155	9.514	9.514	(1.079)	1024	5.00000	7.58(QM)
90 1,2,4-Trichlorobenzene	180	10.004	10.003	(1.134)	3656	5.00000	15.1
91 Hexachlorobutadiene	225	10.103	10.108	(1.145)	3124	5.00000	5.78
92 Naphthalene	128	10.155	10.155	(1.151)	6098	5.00000	24.5
93 1,2,3-Trichlorobenzene	180	10.301	10.301	(1.168)	2827	5.00000	14.0(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a04.d
Lab Smp Id: 5 ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: 5 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	440486	220243	880972	411692	-6.54
61 Chlorobenzene-d5	332162	166081	664324	308059	-7.26
85 1,4-Dichlorobenze	162844	81422	325688	151225	-7.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.07

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.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 5 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	5.78	
74-87-3	Chloromethane	4.96	
75-01-4	Vinyl Chloride	5.77	
74-83-9	Bromomethane	2.79	
75-00-3	Chloroethane	4.82	
75-69-4	Trichlorofluoromethane	5.64	
354-23-4	1,2-dichlorotrifluoroethane	5.61	
60-29-7	Diethyl ether	4.57	
75-65-0	tert-Butyl Alcohol	8.76	
107-02-8	Acrolein	101	
76-13-1	1,1,2trichlorotrifluoroethan	6.45	
75-35-4	1,1-Dichloroethene	5.47	
67-64-1	Acetone	17.1	
75-05-8	Acetonitrile	4.94	
	Iodomethane	16.0	
75-15-0	Carbon Disulfide	10.2	
79-20-9	Methyl Acetate	4.65	
107-05-1	allyl chloride	10.7	
75-09-2	Methylene Chloride	2.34	
107-13-1	Acrylonitrile	111	
1634-04-4	Methyl-tert-butyl ether	11.1	
156-60-5	1,2-Dichloroethene (trans)	5.49	
	n-Hexane	5.60	
126-99-8	chloroprene	5.75	
75-34-3	1,1-Dichloroethane	5.64	
108-05-4	Vinyl Acetate	22.6	
156-59-2	1,2-Dichloroethene (cis)	5.57	
594-20-7	2,2-Dichloropropane	4.98	
78-93-3	2-Butanone	24.9	
126-98-7	Methacrylonitrile	5.76	
74-97-5	Bromochloromethane	5.33	
	Tetrahydrofuran	1.48	
67-66-3	Chloroform	5.67	
71-55-6	1,1,1-Trichloroethane	5.88	
110-82-7	Cyclohexane	5.43	
56-23-5	Carbon Tetrachloride	5.66	
563-58-6	1,1-Dichloropropene	5.79	
540-84-1	2,2,4-Trimethylpentane	5.48	
71-43-2	Benzene	5.68	
107-06-2	1,2-Dichloroethane	5.74	
78-83-1	Isobutyl alcohol	7.01	
79-01-6	Trichloroethene	5.46	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 5 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	5.68	
78-87-5	1,2-Dichloropropane	5.85	
74-95-3	Dibromomethane	5.72	
80-62-6	Methyl methacrylate	5.80	
75-27-4	Bromodichloromethane	5.90	
110-75-8	2-Chloroethyl vinyl ether	11.9	
10061-01-5	cis-1,3-Dichloropropene	5.75	
108-10-1	4-Methyl-2-Pentanone	28.1	
108-88-3	Toluene	5.10	
10061-02-6	trans-1,3-Dichloropropene	5.23	
	Ethyl Methacrylate	6.11	
79-00-5	1,1,2-Trichloroethane	5.72	
127-18-4	Tetrachloroethene	4.33	
142-28-9	1,3-Dichloropropane	5.65	
591-78-6	2-Hexanone	29.0	
124-48-1	Dibromochloromethane	5.48	
106-93-4	1,2-Dibromoethane	5.82	
108-90-7	Chlorobenzene	5.57	
630-20-6	1,1,1,2-Tetrachloroethane	5.18	
100-41-4	Ethylbenzene	5.61	
7816-60-0	m&p-Xylene	11.0	
95-47-6	o-Xylene	5.48	
100-42-5	Styrene	5.79	
75-25-2	Bromoform	5.55	
98-82-8	Isopropylbenzene	5.44	
108-86-1	Bromobenzene	5.04	
79-34-5	1,1,2,2-Tetrachloroethane	5.77	
96-18-4	1,2,3-Trichloropropane	5.37	
	trans-1,4-Dichloro-2-butene	6.55	
103-65-1	n-Propylbenzene	5.26	
95-49-8	2-Chlorotoluene	5.37	
108-67-8	1,3,5-Trimethylbenzene	5.56	
106-43-4	4-Chlorotoluene	5.47	
98-06-6	tert-Butylbenzene	4.83	
95-63-6	1,2,4-Trimethylbenzene	5.24	
135-98-8	sec-Butylbenzene	5.72	
541-73-1	1,3-Dichlorobenzene	5.36	
99-87-6	p-Isopropyltoluene	5.76	
106-46-7	1,4-Dichlorobenzene	5.08	
104-51-8	n-Butylbenzene	7.20	
95-50-1	1,2-Dichlorobenzene	5.12	
96-12-8	1,2-Dibromo-3-chloropropane	7.58	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

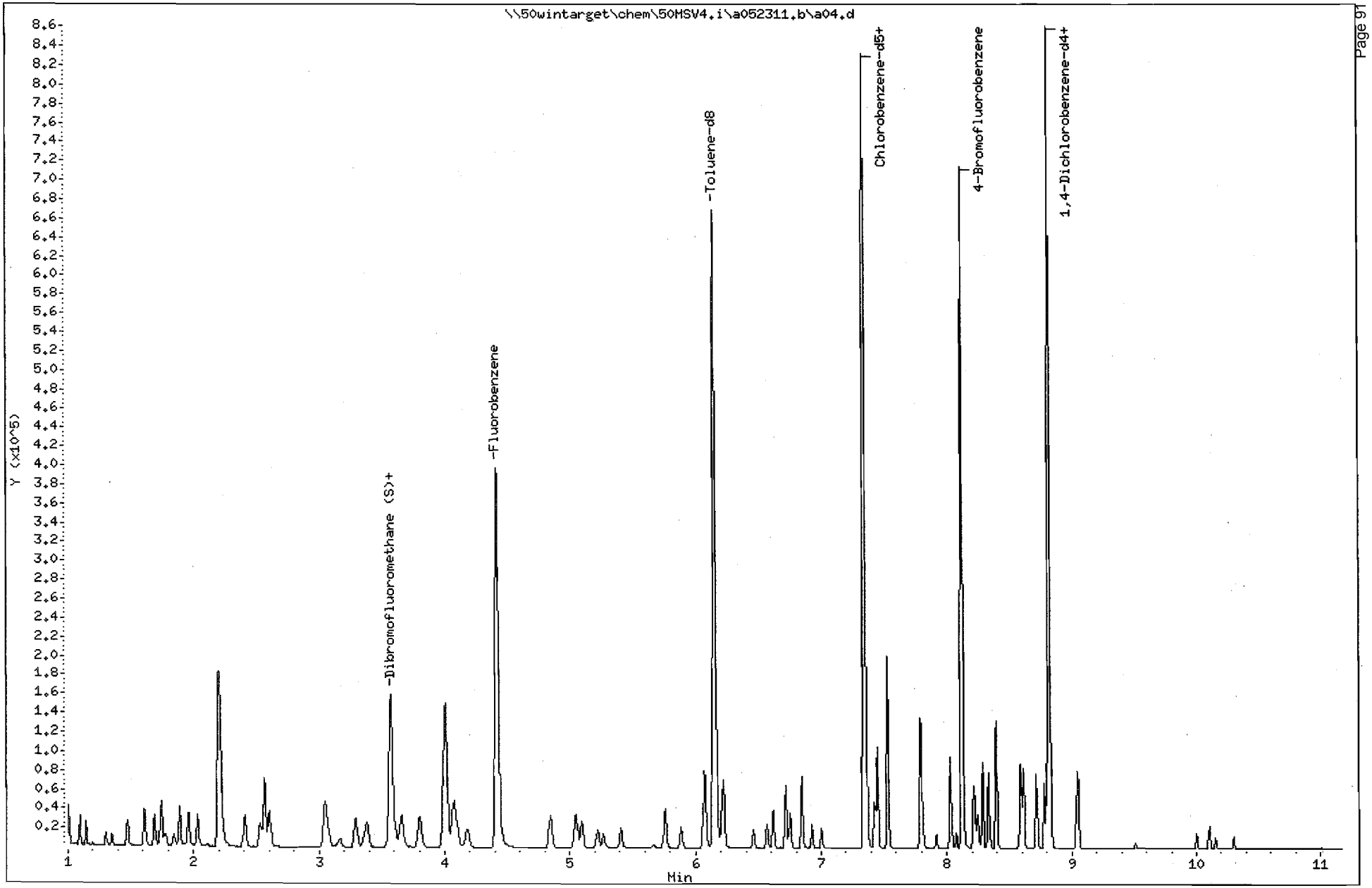
Client Name:
Lab Smp Id: 5 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 5 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	15.1	
87-68-3	Hexachlorobutadiene	5.78	
91-20-3	Naphthalene	24.5	
87-61-6	1,2,3-Trichlorobenzene	14.0	
1868-53-7	Dibromofluoromethane (S)	51.0	
2037-26-5	Toluene-d8	49.4	
460-00-4	4-Bromofluorobenzene	51.5	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a04.d
Date : 23-MAY-2011 14:19
Client ID: 5 ppb
Sample Info: 5 ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a04.d

Date : 23-MAY-2011 14:19

Client ID: 5 ppb

Instrument: 50MSV4.i

Sample Info: 5 ppb

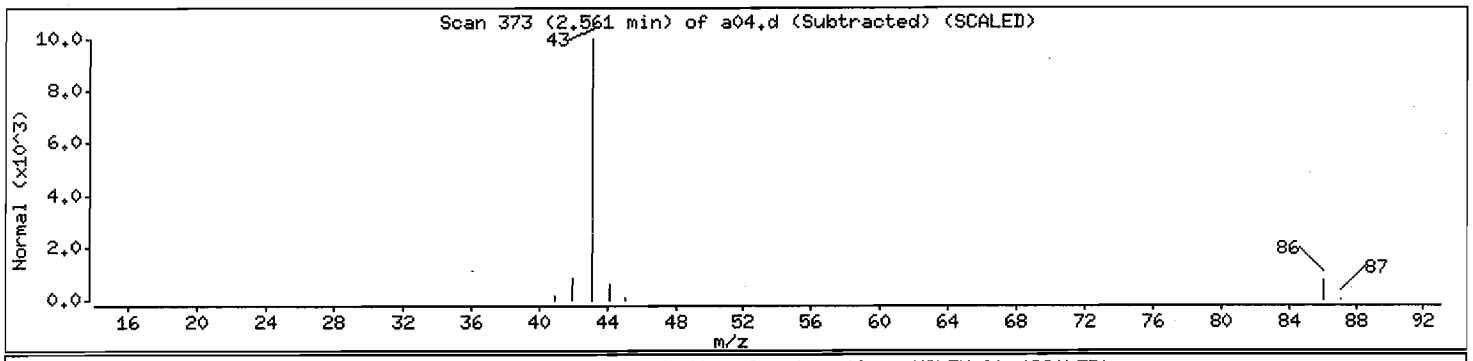
Purge Volume: 5.0

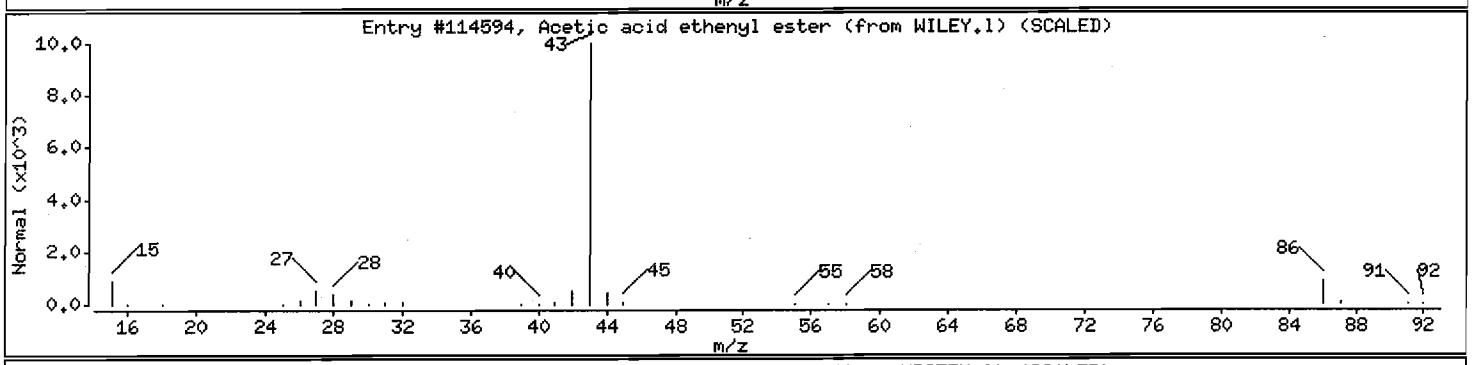
Operator: grm

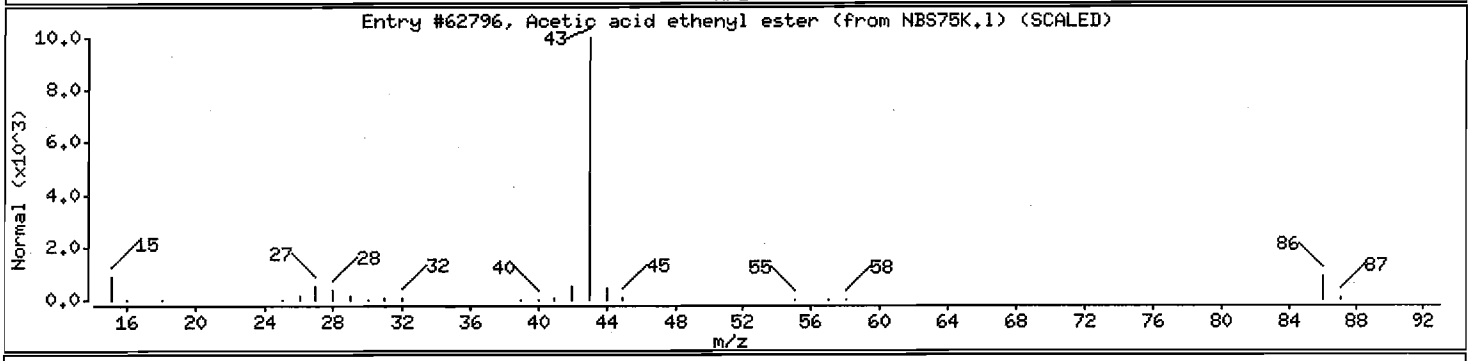
Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid ethenyl ester	108-05-4	WILEY.l	114594	74	C4H6O2	86
Acetic acid ethenyl ester	108-05-4	NBS75K.l	62796	74	C4H6O2	86







Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a05.d
Lab Smp Id: 10 ppb Client Smp ID: 10 ppb
Inj Date : 23-MAY-2011 14:52
Operator : grm Inst ID: 50MSV4.i
Smp Info : 10 ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 09-MAY-2011 19:35 Cal File: a13.d
Als bottle: 11 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.228)	30462	10.0000	11.4
2 Chloromethane	50	1.091	1.091	(0.247)	26551	10.0000	10.0
3 Vinyl Chloride	62	1.144	1.144	(0.259)	21470	10.0000	11.2
4 Bromomethane	94	1.301	1.295	(0.295)	9542	10.0000	7.04
5 Chloroethane	64	1.348	1.348	(0.305)	10270	10.0000	10.0
6 Trichlorofluoromethane	101	1.476	1.476	(0.335)	24846	10.0000	11.1
7 1,2-dichlorotrifluoroethane	67	1.610	1.610	(0.365)	17327	10.0000	11.8
8 Diethyl ether	74	1.616	1.616	(0.366)	7495	10.0000	8.43
18 tert-Butyl Alcohol	59	2.100	2.100	(0.476)	3488	20.0000	19.6
9 Acrolein	56	1.692	1.692	(0.383)	38134	200.000	199
10 1,1,2trichlorotrifluoroethane	101	1.738	1.738	(0.394)	14537	10.0000	12.2
11 1,1-Dichloroethene	96	1.750	1.750	(0.397)	13890	10.0000	11.2
12 Acetone	43	1.773	1.773	(0.402)	22428	50.0000	36.3
143 Acetonitrile	41	1.954	1.949	(0.443)	42990	10.0000	10.1(M)
13 Iodomethane	142	1.843	1.843	(0.418)	31402	20.0000	35.2
14 Carbon Disulfide	76	1.890	1.884	(0.428)	69258	20.0000	20.8
16 Methyl Acetate	43	1.966	1.966	(0.445)	12526	10.0000	9.50
15 allyl chloride	41	1.954	1.954	(0.443)	44202	20.0000	20.4
17 Methylene Chloride	84	2.030	2.030	(0.460)	15859	10.0000	4.80
19 Acrylonitrile	53	2.193	2.193	(0.497)	200217	200.000	208
20 Methyl-tert-butyl ether	73	2.216	2.211	(0.502)	109624	20.0000	21.3
21 1,2-Dichloroethene (trans)	96	2.211	2.211	(0.501)	21882	10.0000	10.8
22 n-Hexane	57	2.403	2.403	(0.544)	28359	10.0000	11.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
147 chloroprene	53	2.601	2.601	(0.589)	39564	10.0000	11.1
23 1,1-Dichloroethane	63	2.525	2.525	(0.572)	43294	10.0000	11.2
24 Vinyl Acetate	43	2.403	2.403	(0.544)	18599	40.0000	45.4
26 1,2-Dichloroethene (cis)	96	3.044	3.044	(0.690)	23249	10.0000	10.0
27 2,2-Dichloropropane	77	3.044	3.044	(0.690)	21311	10.0000	10.4
28 2-Butanone	43	3.067	3.067	(0.695)	60511	50.0000	51.6
144 Methacrylonitrile	41	3.289	3.295	(0.745)	14281	10.0000	10.7(M)
30 Bromochloromethane	49	3.295	3.289	(0.746)	22551	10.0000	10.4
31 Tetrahydrofuran	42	3.359	3.359	(0.761)	10599	10.0000	3.12
32 Chloroform	83	3.382	3.382	(0.766)	37134	10.0000	10.8
$ 33 Dibromofluoromethane (S)	113	3.574	3.569	(0.810)	102940	50.0000	49.3
34 1,1,1-Trichloroethane	97	3.598	3.592	(0.815)	28006	10.0000	11.2
35 Cyclohexane	56	3.656	3.662	(0.828)	41221	10.0000	11.0
36 Carbon Tetrachloride	117	3.802	3.802	(0.861)	20351	10.0000	10.7
37 1,1-Dichloropropene	75	3.802	3.802	(0.861)	28521	10.0000	11.4
141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.946)	53452	10.0000	11.0
39 Benzene	78	4.070	4.070	(0.922)	88799	10.0000	10.8
40 1,2-Dichloroethane	62	4.099	4.099	(0.929)	29987	10.0000	10.9
38 Isobutyl alcohol	43	4.175	4.181	(0.946)	8846	10.0000	12.3(M)
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	409196	50.0000	
42 Trichloroethene	95	4.839	4.839	(1.096)	23091	10.0000	10.9
43 Methylcyclohexane	55	5.049	5.049	(1.144)	28164	10.0000	11.5
44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	25283	10.0000	11.9
45 Dibromomethane	93	5.218	5.218	(1.182)	13230	10.0000	10.6
46 Methyl methacrylate	69	5.271	5.271	(1.194)	13368	10.0000	13.2
47 Bromodichloromethane	83	5.411	5.405	(1.226)	23658	10.0000	11.5
48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	29706	20.0000	23.0
49 cis-1,3-Dichloropropene	75	5.888	5.888	(0.802)	27827	10.0000	11.4
50 4-Methyl-2-Pentanone	43	6.069	6.069	(0.826)	113150	50.0000	57.4
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	400509	50.0000	51.2
52 Toluene	91	6.215	6.215	(0.846)	93010	10.0000	10.4
53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	22012	10.0000	11.1
54 Ethyl Methacrylate	69	6.570	6.570	(0.894)	23237	10.0000	12.6
55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	16182	10.0000	11.0
56 Tetrachloroethene	166	6.716	6.716	(0.914)	30025	10.0000	9.42
57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	30701	10.0000	10.6
58 2-Hexanone	43	6.844	6.844	(0.932)	75571	50.0000	59.2
59 Dibromochloromethane	129	6.926	6.926	(0.943)	17118	10.0000	10.9
60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	18723	10.0000	11.4
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	303876	50.0000	
62 Chlorobenzene	112	7.363	7.363	(1.002)	60921	10.0000	10.8
63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	16687	10.0000	10.9
64 Ethylbenzene	106	7.451	7.451	(1.014)	30363	10.0000	11.5
65 m&p-Xylene	106	7.532	7.532	(1.025)	74376	20.0000	22.1
67 o-Xylene	106	7.789	7.789	(1.060)	35592	10.0000	10.6
68 Styrene	104	7.800	7.800	(1.062)	60548	10.0000	12.0
69 Bromoform	173	7.911	7.917	(0.898)	9125	10.0000	11.1
70 Isopropylbenzene	105	8.028	8.028	(1.093)	84862	10.0000	11.2
$ 72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	140739	50.0000	50.9
74 Bromobenzene	77	8.208	8.208	(1.117)	31722	10.0000	10.4
73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.933)	23017	10.0000	10.9
75 1,2,3-Trichloropropane	75	8.243	8.243	(0.935)	22490	10.0000	10.9
71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	5749	10.0000	12.2
76 n-Propylbenzene	91	8.284	8.284	(0.940)	89247	10.0000	10.5

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
77 2-Chlorotoluene	91	8.331	8.331	(0.945)	57394	10.0000	11.1
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.952)	61506	10.0000	11.3
79 4-Chlorotoluene	126	8.401	8.401	(0.953)	19978	10.0000	10.7
80 tert-Butylbenzene	119	8.581	8.587	(0.974)	58016	10.0000	10.0(M)
81 1,2,4-Trimethylbenzene	105	8.610	8.616	(0.977)	62750	10.0000	10.9
82 sec-Butylbenzene	105	8.715	8.715	(0.989)	68353	10.0000	11.3
83 1,3-Dichlorobenzene	146	8.779	8.779	(0.996)	36127	10.0000	10.8
84 p-Isopropyltoluene	119	8.803	8.803	(0.999)	58748	10.0000	11.6
* 85 1,4-Dichlorobenzene-d4	152	8.814	8.820	(1.000)	150465	50.0000	
86 1,4-Dichlorobenzene	146	8.832	8.832	(1.002)	37568	10.0000	10.8
87 n-Butylbenzene	91	9.042	9.042	(1.026)	42764	10.0000	15.1
88 1,2-Dichlorobenzene	146	9.048	9.053	(1.026)	35606	10.0000	11.0
89 1,2-Dibromo-3-chloropropane	155	9.508	9.514	(1.079)	2406	10.0000	15.3
90 1,2,4-Trichlorobenzene	180	10.003	10.003	(1.135)	11506	10.0000	31.7
91 Hexachlorobutadiene	225	10.103	10.108	(1.146)	6632	10.0000	11.9
92 Naphthalene	128	10.155	10.155	(1.152)	24150	10.0000	42.4
93 1,2,3-Trichlorobenzene	180	10.295	10.301	(1.168)	9542	10.0000	25.0

QC Flag Legend

M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a05.d
Lab Smp Id: 10 ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: 10 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	440486	220243	880972	409196	-7.10
61 Chlorobenzene-d5	332162	166081	664324	303876	-8.52
85 1,4-Dichlorobenze	162844	81422	325688	150465	-7.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	-0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	-0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.81	-0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 10 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	11.4	
74-87-3	Chloromethane	10.0	
75-01-4	Vinyl Chloride	11.2	
74-83-9	Bromomethane	7.04	
75-00-3	Chloroethane	10.0	
75-69-4	Trichlorofluoromethane	11.1	
354-23-4	1,2-dichlorotrifluoroethane	11.8	
60-29-7	Diethyl ether	8.43	
75-65-0	tert-Butyl Alcohol	19.6	
107-02-8	Acrolein	199	
76-13-1	1,1,2trichlorotrifluoroethan	12.2	
75-35-4	1,1-Dichloroethene	11.2	
67-64-1	Acetone	36.3	
75-05-8	Acetonitrile	10.1	
	Iodomethane	35.2	
75-15-0	Carbon Disulfide	20.8	
79-20-9	Methyl Acetate	9.50	
107-05-1	allyl chloride	20.4	
75-09-2	Methylene Chloride	4.80	
107-13-1	Acrylonitrile	208	
1634-04-4	Methyl-tert-butyl ether	21.3	
156-60-5	1,2-Dichloroethene (trans)	10.8	
	n-Hexane	11.5	
126-99-8	chloroprene	11.1	
75-34-3	1,1-Dichloroethane	11.2	
108-05-4	Vinyl Acetate	45.4	
156-59-2	1,2-Dichloroethene (cis)	10.0	
594-20-7	2,2-Dichloropropane	10.4	
78-93-3	2-Butanone	51.6	
126-98-7	Methacrylonitrile	10.7	
74-97-5	Bromochloromethane	10.4	
	Tetrahydrofuran	3.12	
67-66-3	Chloroform	10.8	
71-55-6	1,1,1-Trichloroethane	11.2	
110-82-7	Cyclohexane	11.0	
56-23-5	Carbon Tetrachloride	10.7	
563-58-6	1,1-Dichloropropene	11.4	
540-84-1	2,2,4-Trimethylpentane	11.0	
71-43-2	Benzene	10.8	
107-06-2	1,2-Dichloroethane	10.9	
78-83-1	Isobutyl alcohol	12.3	
79-01-6	Trichloroethene	10.9	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 10 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	11.5	
78-87-5	1,2-Dichloropropane	11.9	
74-95-3	Dibromomethane	10.6	
80-62-6	Methyl methacrylate	13.2	
75-27-4	Bromodichloromethane	11.5	
110-75-8	2-Chloroethyl vinyl ether	23.0	
10061-01-5	cis-1,3-Dichloropropene	11.4	
108-10-1	4-Methyl-2-Pentanone	57.4	
108-88-3	Toluene	10.4	
10061-02-6	trans-1,3-Dichloropropene	11.1	
	Ethyl Methacrylate	12.6	
79-00-5	1,1,2-Trichloroethane	11.0	
127-18-4	Tetrachloroethene	9.42	
142-28-9	1,3-Dichloropropane	10.6	
591-78-6	2-Hexanone	59.2	
124-48-1	Dibromochloromethane	10.9	
106-93-4	1,2-Dibromoethane	11.4	
108-90-7	Chlorobenzene	10.8	
630-20-6	1,1,1,2-Tetrachloroethane	10.9	
100-41-4	Ethylbenzene	11.5	
7816-60-0	m&p-Xylene	22.1	
95-47-6	o-Xylene	10.6	
100-42-5	Styrene	12.0	
75-25-2	Bromoform	11.1	
98-82-8	Isopropylbenzene	11.2	
108-86-1	Bromobenzene	10.4	
79-34-5	1,1,2,2-Tetrachloroethane	10.9	
96-18-4	1,2,3-Trichloropropane	10.9	
	trans-1,4-Dichloro-2-butene	12.2	
103-65-1	n-Propylbenzene	10.5	
95-49-8	2-Chlorotoluene	11.1	
108-67-8	1,3,5-Trimethylbenzene	11.3	
106-43-4	4-Chlorotoluene	10.7	
98-06-6	tert-Butylbenzene	10.0	
95-63-6	1,2,4-Trimethylbenzene	10.9	
135-98-8	sec-Butylbenzene	11.3	
541-73-1	1,3-Dichlorobenzene	10.8	
99-87-6	p-Isopropyltoluene	11.6	
106-46-7	1,4-Dichlorobenzene	10.8	
104-51-8	n-Butylbenzene	15.1	
95-50-1	1,2-Dichlorobenzene	11.0	
96-12-8	1,2-Dibromo-3-chloropropane	15.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

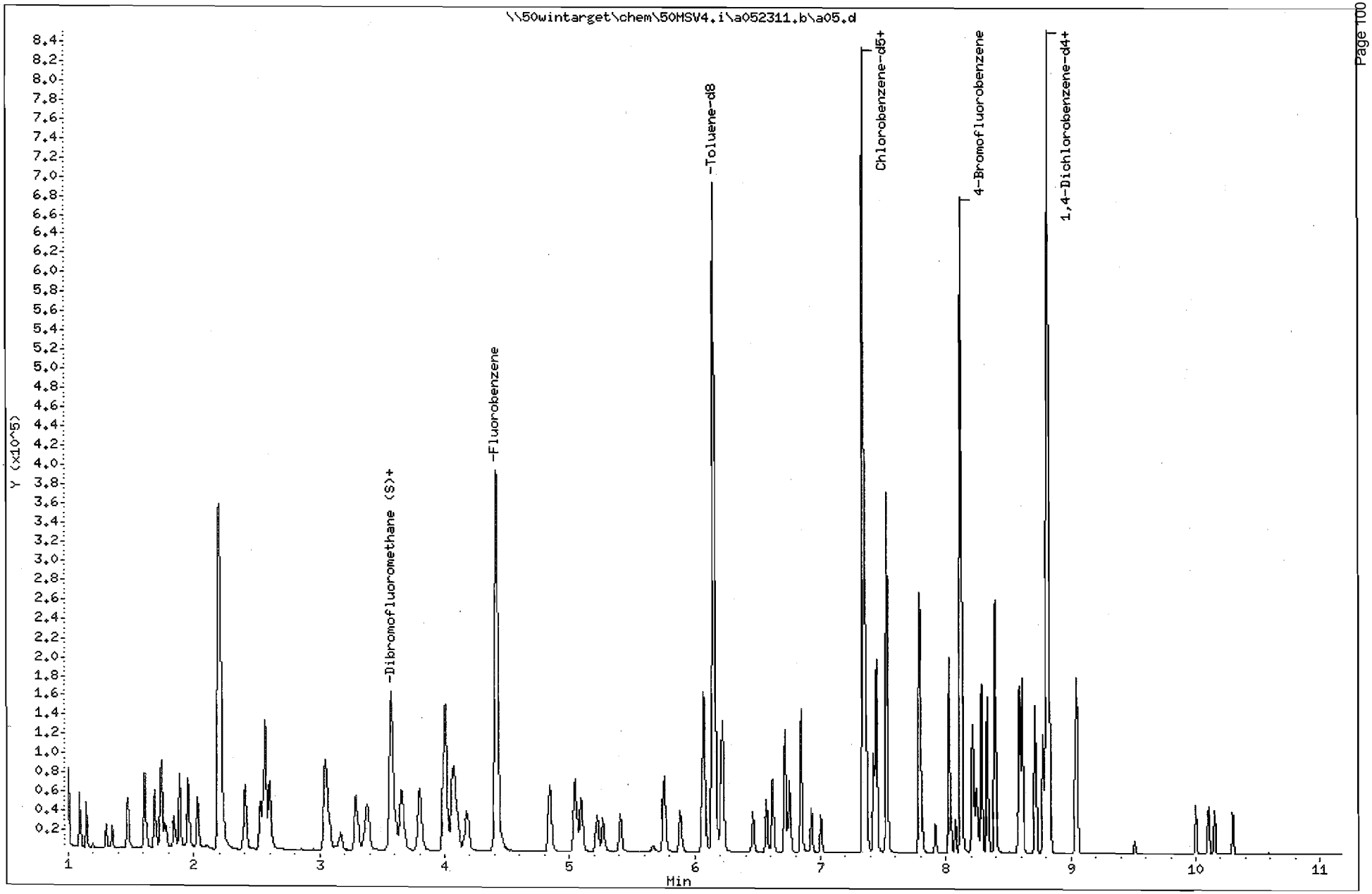
Client SDG: a052311.b
Client Smp ID: 10 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	31.7	
87-68-3	Hexachlorobutadiene	11.9	
91-20-3	Naphthalene	42.4	
87-61-6	1,2,3-Trichlorobenzene	25.0	
1868-53-7	Dibromofluoromethane (S)	49.3	
2037-26-5	Toluene-d8	51.2	
460-00-4	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a05.d
Date : 23-MAY-2011 14:52
Client ID: 10 ppb
Sample Info: 10 ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i

Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a05.d

Date : 23-MAY-2011 14:52

Client ID: 10 ppb

Instrument: 50MSV4.i

Sample Info: 10 ppb

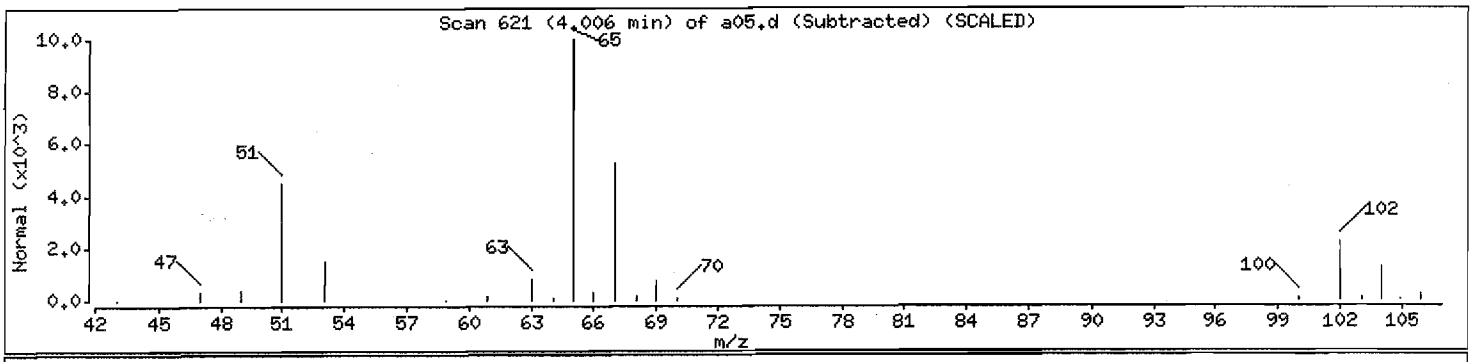
Purge Volume: 5.0

Operator: grm

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a06.d
Lab Smp Id: 50 ppb Client Smp ID: 50 ppb
Inj Date : 23-MAY-2011 15:26
Operator : grm Inst ID: 50MSV4.i
Smp Info : 50 ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 09-MAY-2011 19:35 Cal File: a13.d
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.228)	141653	50.0000	50.0
2 Chloromethane	50	1.092	1.091	(0.247)	125563	50.0000	45.8
3 Vinyl Chloride	62	1.144	1.144	(0.259)	103185	50.0000	50.7
4 Bromomethane	94	1.296	1.295	(0.294)	38743	50.0000	29.4
5 Chloroethane	64	1.348	1.348	(0.305)	42170	50.0000	39.8
6 Trichlorofluoromethane	101	1.471	1.476	(0.333)	116387	50.0000	49.1
7 1,2-dichlorotrifluoroethane	67	1.610	1.610	(0.365)	79890	50.0000	50.8
8 Diethyl ether	74	1.616	1.616	(0.366)	38306	50.0000	43.1
18 tert-Butyl Alcohol	59	2.106	2.100	(0.477)	18184	100.000	99.5
9 Acrolein	56	1.692	1.692	(0.383)	179073	1000.00	906
10 1,1,2trichlorotrifluoroethane	101	1.739	1.738	(0.394)	68420	50.0000	53.4
11 1,1-Dichloroethene	96	1.750	1.750	(0.397)	64606	50.0000	49.4
12 Acetone	43	1.774	1.773	(0.402)	100371	250.000	166
143 Acetonitrile	41	1.954	1.949	(0.443)	208023	50.0000	47.1(M)
13 Iodomethane	142	1.844	1.843	(0.418)	213851	100.000	201
14 Carbon Disulfide	76	1.890	1.884	(0.428)	344808	100.000	99.2
16 Methyl Acetate	43	1.966	1.966	(0.445)	60821	50.0000	45.1
15 allyl chloride	41	1.954	1.954	(0.443)	221419	100.000	98.6
17 Methylene Chloride	84	2.030	2.030	(0.460)	72772	50.0000	23.8
19 Acrylonitrile	53	2.193	2.193	(0.497)	916818	1000.00	914
20 Methyl-tert-butyl ether	73	2.217	2.211	(0.502)	519956	100.000	96.7
21 1,2-Dichloroethene (trans)	96	2.211	2.211	(0.501)	102139	50.0000	48.0
22 n-Hexane	57	2.403	2.403	(0.544)	138716	50.0000	52.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
147 chloroprene	53	2.601	2.601	(0.589)	192173	50.0000	50.9
23 1,1-Dichloroethane	63	2.526	2.525	(0.572)	212283	50.0000	52.0
24 Vinyl Acetate	43	2.403	2.403	(0.544)	90186	200.000	208
26 1,2-Dichloroethene (cis)	96	3.044	3.044	(0.690)	116456	50.0000	48.5
27 2,2-Dichloropropane	77	3.044	3.044	(0.690)	112564	50.0000	52.7
28 2-Butanone	43	3.068	3.067	(0.695)	290484	250.000	238
144 Methacrylonitrile	41	3.289	3.295	(0.745)	70160	50.0000	50.2(M)
30 Bromochloromethane	49	3.289	3.289	(0.745)	98511	50.0000	43.7
31 Tetrahydrofuran	42	3.359	3.359	(0.761)	41361	50.0000	13.6
32 Chloroform	83	3.382	3.382	(0.766)	179685	50.0000	49.6
$ 33 Dibromofluoromethane (S)	113	3.575	3.569	(0.810)	106173	50.0000	49.4
34 1,1,1-Trichloroethane	97	3.598	3.592	(0.815)	138564	50.0000	52.2
35 Cyclohexane	56	3.656	3.662	(0.828)	199874	50.0000	50.6
36 Carbon Tetrachloride	117	3.802	3.802	(0.861)	110312	50.0000	55.3
37 1,1-Dichloropropene	75	3.808	3.802	(0.863)	139878	50.0000	52.7
141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.946)	262394	50.0000	51.4
39 Benzene	78	4.070	4.070	(0.922)	428174	50.0000	49.5
40 1,2-Dichloroethane	62	4.099	4.099	(0.929)	142812	50.0000	49.4
38 Isobutyl alcohol	43	4.175	4.181	(0.946)	43982	50.0000	56.7
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	422864	50.0000	
42 Trichloroethene	95	4.845	4.839	(1.098)	111832	50.0000	50.1
43 Methylcyclohexane	55	5.049	5.049	(1.144)	137547	50.0000	52.8
44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	119010	50.0000	52.2
45 Dibromomethane	93	5.218	5.218	(1.182)	63822	50.0000	49.0
46 Methyl methacrylate	69	5.271	5.271	(1.194)	66293	50.0000	59.4
47 Bromodichloromethane	83	5.411	5.405	(1.226)	120802	50.0000	55.3
48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	154505	100.000	114
49 cis-1,3-Dichloropropene	75	5.889	5.888	(0.802)	148122	50.0000	58.2
50 4-Methyl-2-Pentanone	43	6.069	6.069	(0.826)	554544	250.000	269
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	397756	50.0000	49.8
52 Toluene	91	6.221	6.215	(0.847)	447929	50.0000	49.0
53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	125803	50.0000	60.9
54 Ethyl Methacrylate	69	6.571	6.570	(0.894)	122993	50.0000	62.4
55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	79637	50.0000	52.0
56 Tetrachloroethene	166	6.716	6.716	(0.914)	140034	50.0000	43.7
57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	149239	50.0000	50.2
58 2-Hexanone	43	6.845	6.844	(0.932)	376707	250.000	280
59 Dibromochloromethane	129	6.926	6.926	(0.943)	94777	50.0000	58.3
60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	93383	50.0000	54.3
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	308854	50.0000	
62 Chlorobenzene	112	7.369	7.363	(1.003)	297195	50.0000	51.1
63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	94586	50.0000	59.7
64 Ethylbenzene	106	7.451	7.451	(1.014)	153834	50.0000	55.6
65 m&p-Xylene	106	7.532	7.532	(1.025)	363961	100.000	104
67 o-Xylene	106	7.795	7.789	(1.061)	170729	50.0000	49.6
68 Styrene	104	7.800	7.800	(1.062)	294495	50.0000	55.2
69 Bromoform	173	7.917	7.917	(0.898)	56832	50.0000	66.8
70 Isopropylbenzene	105	8.028	8.028	(1.093)	417266	50.0000	53.1
$ 72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	145578	50.0000	51.6
74 Bromobenzene	77	8.208	8.208	(1.117)	153709	50.0000	49.2
73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.932)	114201	50.0000	52.3
75 1,2,3-Trichloropropane	75	8.243	8.243	(0.935)	121118	50.0000	56.7
71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	33500	50.0000	66.8
76 n-Propylbenzene	91	8.284	8.284	(0.939)	455563	50.0000	52.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
77 2-Chlorotoluene	91	8.331	8.331	(0.944)	282589	50.0000	52.7
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.951)	305433	50.0000	54.0
79 4-Chlorotoluene	126	8.401	8.401	(0.952)	99166	50.0000	51.6
80 tert-Butylbenzene	119	8.587	8.587	(0.974)	287516	50.0000	49.0(M)
81 1,2,4-Trimethylbenzene	105	8.616	8.616	(0.977)	308074	50.0000	52.0
82 sec-Butylbenzene	105	8.716	8.715	(0.988)	347258	50.0000	55.1
83 1,3-Dichlorobenzene	146	8.780	8.779	(0.995)	183899	50.0000	53.4
84 p-Isopropyltoluene	119	8.803	8.803	(0.998)	293320	50.0000	55.4
* 85 1,4-Dichlorobenzene-d4	152	8.820	8.820	(1.000)	152537	50.0000	
86 1,4-Dichlorobenzene	146	8.832	8.832	(1.001)	185097	50.0000	51.8
87 n-Butylbenzene	91	9.042	9.042	(1.025)	224382	50.0000	70.8
88 1,2-Dichlorobenzene	146	9.054	9.053	(1.026)	179170	50.0000	53.8
89 1,2-Dibromo-3-chloropropane	155	9.514	9.514	(1.079)	15416	50.0000	85.3
90 1,2,4-Trichlorobenzene	180	10.010	10.003	(1.135)	83126	50.0000	158
91 Hexachlorobutadiene	225	10.109	10.108	(1.146)	35926	50.0000	61.1
92 Naphthalene	128	10.155	10.155	(1.151)	233204	50.0000	223
93 1,2,3-Trichlorobenzene	180	10.301	10.301	(1.168)	70551	50.0000	122
94 2,methyl-naphthalene	142	10.855	10.854	(1.231)	15222	50.0000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a06.d
Lab Smp Id: 50 ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: 50 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	440486	220243	880972	422864	-4.00
61 Chlorobenzene-d5	332162	166081	664324	308854	-7.02
85 1,4-Dichlorobenze	162844	81422	325688	152537	-6.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.07

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.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 50 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	50.0	
74-87-3	Chloromethane	45.8	
75-01-4	Vinyl Chloride	50.7	
74-83-9	Bromomethane	29.4	
75-00-3	Chloroethane	39.8	
75-69-4	Trichlorofluoromethane	49.1	
354-23-4	1,2-dichlorotrifluoroethane	50.8	
60-29-7	Diethyl ether	43.1	
75-65-0	tert-Butyl Alcohol	99.5	
107-02-8	Acrolein	906	
76-13-1	1,1,2trichlorotrifluoroethan	53.4	
75-35-4	1,1-Dichloroethene	49.4	
67-64-1	Acetone	166	
75-05-8	Acetonitrile	47.1	
	Iodomethane	201	
75-15-0	Carbon Disulfide	99.2	
79-20-9	Methyl Acetate	45.1	
107-05-1	allyl chloride	98.6	
75-09-2	Methylene Chloride	23.8	
107-13-1	Acrylonitrile	914	
1634-04-4	Methyl-tert-butyl ether	96.7	
156-60-5	1,2-Dichloroethene (trans)	48.0	
	n-Hexane	52.7	
126-99-8	chloroprene	50.9	
75-34-3	1,1-Dichloroethane	52.0	
108-05-4	Vinyl Acetate	208	
156-59-2	1,2-Dichloroethene (cis)	48.5	
594-20-7	2,2-Dichloropropane	52.7	
78-93-3	2-Butanone	238	
126-98-7	Methacrylonitrile	50.2	
74-97-5	Bromochloromethane	43.7	
	Tetrahydrofuran	13.6	
67-66-3	Chloroform	49.6	
71-55-6	1,1,1-Trichloroethane	52.2	
110-82-7	Cyclohexane	50.6	
56-23-5	Carbon Tetrachloride	55.3	
563-58-6	1,1-Dichloropropene	52.7	
540-84-1	2,2,4-Trimethylpentane	51.4	
71-43-2	Benzene	49.5	
107-06-2	1,2-Dichloroethane	49.4	
78-83-1	Isobutyl alcohol	56.7	
79-01-6	Trichloroethene	50.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 50 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	52.8	
78-87-5	1,2-Dichloropropane	52.2	
74-95-3	Dibromomethane	49.0	
80-62-6	Methyl methacrylate	59.4	
75-27-4	Bromodichloromethane	55.3	
110-75-8	2-Chloroethyl vinyl ether	114	
10061-01-5	cis-1,3-Dichloropropene	58.2	
108-10-1	4-Methyl-2-Pentanone	269	
108-88-3	Toluene	49.0	
10061-02-6	trans-1,3-Dichloropropene	60.9	
	Ethyl Methacrylate	62.4	
79-00-5	1,1,2-Trichloroethane	52.0	
127-18-4	Tetrachloroethene	43.7	
142-28-9	1,3-Dichloropropane	50.2	
591-78-6	2-Hexanone	280	
124-48-1	Dibromochloromethane	58.3	
106-93-4	1,2-Dibromoethane	54.3	
108-90-7	Chlorobenzene	51.1	
630-20-6	1,1,1,2-Tetrachloroethane	59.7	
100-41-4	Ethylbenzene	55.6	
7816-60-0	m&p-Xylene	104	
95-47-6	o-Xylene	49.6	
100-42-5	Styrene	55.2	
75-25-2	Bromoform	66.8	
98-82-8	Isopropylbenzene	53.1	
108-86-1	Bromobenzene	49.2	
79-34-5	1,1,2,2-Tetrachloroethane	52.3	
96-18-4	1,2,3-Trichloropropane	56.7	
	trans-1,4-Dichloro-2-butene	66.8	
103-65-1	n-Propylbenzene	52.3	
95-49-8	2-Chlorotoluene	52.7	
108-67-8	1,3,5-Trimethylbenzene	54.0	
106-43-4	4-Chlorotoluene	51.6	
98-06-6	tert-Butylbenzene	49.0	
95-63-6	1,2,4-Trimethylbenzene	52.0	
135-98-8	sec-Butylbenzene	55.1	
541-73-1	1,3-Dichlorobenzene	53.4	
99-87-6	p-Isopropyltoluene	55.4	
106-46-7	1,4-Dichlorobenzene	51.8	
104-51-8	n-Butylbenzene	70.8	
95-50-1	1,2-Dichlorobenzene	53.8	
96-12-8	1,2-Dibromo-3-chloropropane	85.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

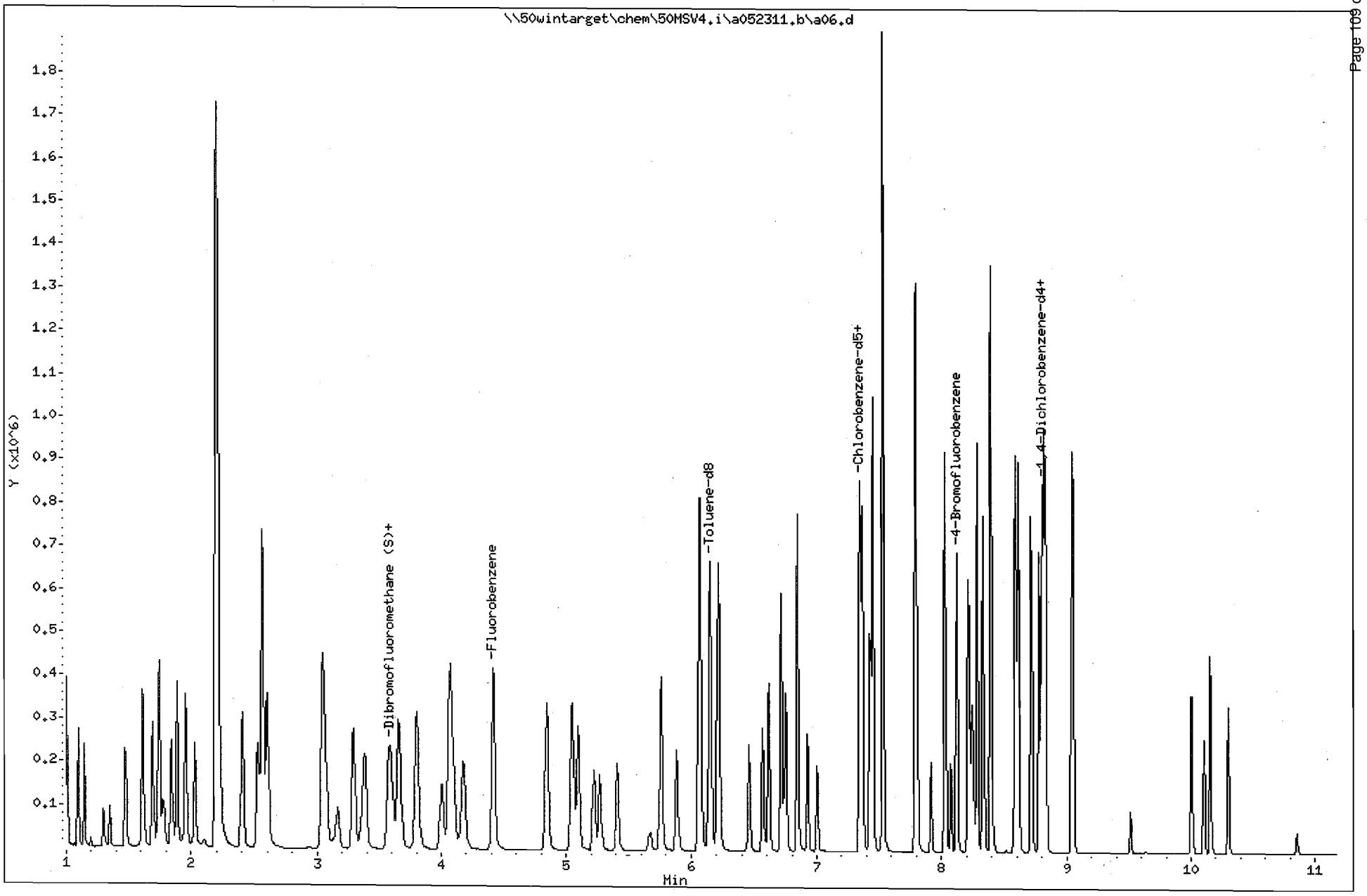
Client Name:
Lab Smp Id: 50 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 50 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	158	
87-68-3	Hexachlorobutadiene	61.1	
91-20-3	Naphthalene	223	
87-61-6	1,2,3-Trichlorobenzene	122	
	2,methyl-naphthalene	0.000	
1868-53-7	Dibromofluoromethane (S)	49.4	
2037-26-5	Toluene-d8	49.8	
460-00-4	4-Bromofluorobenzene	51.6	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a06.d
Date : 23-MAY-2011 15:26
Client ID: 50 ppb
Sample Info: 50 ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a06.d

Date : 23-MAY-2011 15:26

Client ID: 50 ppb

Instrument: 50MSV4.i

Sample Info: 50 ppb

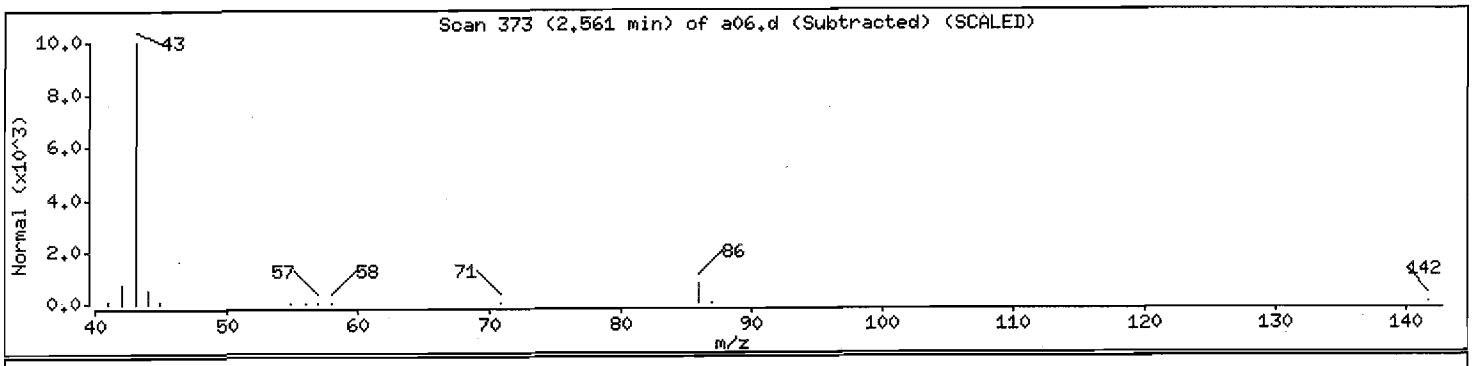
Purge Volume: 5.0

Operator: grm

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a07.d
Lab Smp Id: 150 ppb Client Smp ID: 150 ppb
Inj Date : 23-MAY-2011 15:59
Operator : grm Inst ID: 50MSV4.i
Smp Info : 150 ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 09-MAY-2011 19:35 Cal File: a13.d
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.228)	430480	150.000	149
2 Chloromethane	50	1.092	1.091	(0.247)	437259	150.000	159
3 Vinyl Chloride	62	1.144	1.144	(0.259)	317670	150.000	153
4 Bromomethane	94	1.284	1.295	(0.291)	46986	150.000	37.6
5 Chloroethane	64	1.336	1.348	(0.303)	76719	150.000	73.6
6 Trichlorofluoromethane	101	1.465	1.476	(0.332)	341949	150.000	142
7 1,2-dichlorotrifluoroethane	67	1.604	1.610	(0.364)	237995	150.000	148
8 Diethyl ether	74	1.616	1.616	(0.366)	109053	150.000	123
18 tert-Butyl Alcohol	59	2.112	2.100	(0.478)	58321	300.000	314
9 Acrolein	56	1.692	1.692	(0.383)	503720	3000.00	2540
10 1,1,2trichlorotrifluoroethane	101	1.733	1.738	(0.393)	201150	150.000	152
11 1,1-Dichloroethene	96	1.744	1.750	(0.395)	191040	150.000	144
12 Acetone	43	1.779	1.773	(0.403)	293000	750.000	505
143 Acetonitrile	41	1.954	1.949	(0.443)	523891	150.000	118(M)
13 Iodomethane	142	1.838	1.843	(0.416)	625133	300.000	495
14 Carbon Disulfide	76	1.884	1.884	(0.427)	1001023	300.000	283
16 Methyl Acetate	43	1.966	1.966	(0.445)	169258	150.000	125
15 allyl chloride	41	1.954	1.954	(0.443)	565179	300.000	248
17 Methylene Chloride	84	2.024	2.030	(0.459)	212829	150.000	74.9
19 Acrylonitrile	53	2.199	2.193	(0.498)	2366429	3000.00	2350
20 Methyl-tert-butyl ether	73	2.216	2.211	(0.502)	1468883	300.000	270
21 1,2-Dichloroethene (trans)	96	2.211	2.211	(0.501)	284593	150.000	132
22 n-Hexane	57	2.397	2.403	(0.543)	415277	150.000	154

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	147 chloroprene	53	2.601	2.601	(0.589)	564464	150.000	146
	23 1,1-Dichloroethane	63	2.525	2.525	(0.572)	620973	150.000	148
	24 Vinyl Acetate	43	2.397	2.403	(0.543)	260805	600.000	586
	26 1,2-Dichloroethene (cis)	96	3.044	3.044	(0.690)	338912	150.000	139
	27 2,2-Dichloropropane	77	3.044	3.044	(0.690)	350854	150.000	160
	28 2-Butanone	43	3.073	3.067	(0.696)	833300	750.000	676
	144 Methacrylonitrile	41	3.295	3.295	(0.746)	205961	150.000	144(M)
	30 Bromochloromethane	49	3.295	3.289	(0.746)	265893	150.000	118
	31 Tetrahydrofuran	42	3.359	3.359	(0.761)	113587	150.000	41.9
	32 Chloroform	83	3.382	3.382	(0.766)	539344	150.000	146
$	33 Dibromofluoromethane (S)	113	3.575	3.569	(0.810)	108795	50.0000	49.8
	34 1,1,1-Trichloroethane	97	3.598	3.592	(0.815)	438319	150.000	161
	35 Cyclohexane	56	3.656	3.662	(0.828)	607174	150.000	151
	36 Carbon Tetrachloride	117	3.796	3.802	(0.860)	366246	150.000	177
	37 1,1-Dichloropropene	75	3.802	3.802	(0.861)	415289	150.000	152
	141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.946)	797059	150.000	153
	39 Benzene	78	4.070	4.070	(0.922)	1268763	150.000	144
	40 1,2-Dichloroethane	62	4.099	4.099	(0.929)	418888	150.000	143
	38 Isobutyl alcohol	43	4.175	4.181	(0.946)	138192	150.000	171
*	41 Fluorobenzene	96	4.414	4.414	(1.000)	430479	50.0000	
	42 Trichloroethene	95	4.845	4.839	(1.098)	337792	150.000	149
	43 Methylcyclohexane	55	5.049	5.049	(1.144)	420480	150.000	157
	44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	361601	150.000	155
	45 Dibromomethane	93	5.224	5.218	(1.184)	188503	150.000	143
	46 Methyl methacrylate	69	5.271	5.271	(1.194)	206949	150.000	177
	47 Bromodichloromethane	83	5.411	5.405	(1.226)	374625	150.000	165
	48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	452784	300.000	321
	49 cis-1,3-Dichloropropene	75	5.888	5.888	(0.802)	473667	150.000	178
	50 4-Methyl-2-Pentanone	43	6.075	6.069	(0.827)	1540098	750.000	723
$	51 Toluene-d8	98	6.151	6.151	(0.837)	405982	50.0000	49.9
	52 Toluene	91	6.221	6.215	(0.847)	1310751	150.000	141
	53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	398864	150.000	183
	54 Ethyl Methacrylate	69	6.570	6.570	(0.894)	372345	150.000	178
	55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	225645	150.000	144
	56 Tetrachloroethene	166	6.716	6.716	(0.914)	396366	150.000	124
	57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	445745	150.000	147
	58 2-Hexanone	43	6.844	6.844	(0.932)	1077853	750.000	770
	59 Dibromochloromethane	129	6.926	6.926	(0.943)	307755	150.000	180
	60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	277855	150.000	156
*	61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	314927	50.0000	
	62 Chlorobenzene	112	7.369	7.363	(1.003)	872537	150.000	146
	63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	288536	150.000	173
	64 Ethylbenzene	106	7.451	7.451	(1.014)	441077	150.000	153
	65 m&p-Xylene	106	7.532	7.532	(1.025)	1016725	300.000	283
	67 o-Xylene	106	7.789	7.789	(1.060)	488342	150.000	139
	68 Styrene	104	7.800	7.800	(1.062)	844743	150.000	152
	69 Bromoform	173	7.917	7.917	(0.898)	191357	150.000	210
	70 Isopropylbenzene	105	8.028	8.028	(1.093)	1212110	150.000	150
$	72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	145593	50.0000	50.4
	74 Bromobenzene	77	8.208	8.208	(1.117)	449871	150.000	142
	73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.932)	334926	150.000	150
	75 1,2,3-Trichloropropane	75	8.243	8.243	(0.935)	364612	150.000	165
	71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	99944	150.000	185
	76 n-Propylbenzene	91	8.284	8.284	(0.939)	1359643	150.000	153

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
77 2-Chlorotoluene	91	8.331	8.331	(0.944)	828427	150.000	151
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.951)	871043	150.000	150
79 4-Chlorotoluene	126	8.401	8.401	(0.952)	284659	150.000	145
80 tert-Butylbenzene	119	8.587	8.587	(0.974)	873841	150.000	147(M)
81 1,2,4-Trimethylbenzene	105	8.616	8.616	(0.977)	919121	150.000	152
82 sec-Butylbenzene	105	8.715	8.715	(0.988)	1036278	150.000	160
83 1,3-Dichlorobenzene	146	8.779	8.779	(0.995)	553596	150.000	157
84 p-Isopropyltoluene	119	8.803	8.803	(0.998)	884879	150.000	162
* 85 1,4-Dichlorobenzene-d4	152	8.820	8.820	(1.000)	154624	50.0000	
86 1,4-Dichlorobenzene	146	8.832	8.832	(1.001)	562850	150.000	154
87 n-Butylbenzene	91	9.042	9.042	(1.025)	707146	150.000	206
88 1,2-Dichlorobenzene	146	9.053	9.053	(1.026)	528245	150.000	154
89 1,2-Dibromo-3-chloropropane	155	9.514	9.514	(1.079)	53196	150.000	254
90 1,2,4-Trichlorobenzene	180	10.003	10.003	(1.134)	282271	150.000	388
91 Hexachlorobutadiene	225	10.103	10.108	(1.145)	114658	150.000	186
92 Naphthalene	128	10.155	10.155	(1.151)	814115	150.000	454
93 1,2,3-Trichlorobenzene	180	10.301	10.301	(1.168)	246617	150.000	309
94 2,methyl-naphthalene	142	10.849	10.854	(1.230)	162880	150.000	528

QC Flag Legend

M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a07.d
Lab Smp Id: 150 ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: 150 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	440486	220243	880972	430479	-2.27
61 Chlorobenzene-d5	332162	166081	664324	314927	-5.19
85 1,4-Dichlorobenze	162844	81422	325688	154624	-5.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	-0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	-0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.07

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.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 150 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	149	
74-87-3	Chloromethane	159	
75-01-4	Vinyl Chloride	153	
74-83-9	Bromomethane	37.6	
75-00-3	Chloroethane	73.6	
75-69-4	Trichlorofluoromethane	142	
354-23-4	1,2-dichlorotrifluoroethane	148	
60-29-7	Diethyl ether	123	
75-65-0	tert-Butyl Alcohol	314	
107-02-8	Acrolein	2540	
76-13-1	1,1,2trichlorotrifluoroethan	152	
75-35-4	1,1-Dichloroethene	144	
67-64-1	Acetone	505	
75-05-8	Acetonitrile	118	
	Iodomethane	495	
75-15-0	Carbon Disulfide	283	
79-20-9	Methyl Acetate	125	
107-05-1	allyl chloride	248	
75-09-2	Methylene Chloride	74.9	
107-13-1	Acrylonitrile	2350	
1634-04-4	Methyl-tert-butyl ether	270	
156-60-5	1,2-Dichloroethene (trans)	132	
	n-Hexane	154	
126-99-8	chloroprene	146	
75-34-3	1,1-Dichloroethane	148	
108-05-4	Vinyl Acetate	586	
156-59-2	1,2-Dichloroethene (cis)	139	
594-20-7	2,2-Dichloropropane	160	
78-93-3	2-Butanone	676	
126-98-7	Methacrylonitrile	144	
74-97-5	Bromochloromethane	118	
	Tetrahydrofuran	41.9	
67-66-3	Chloroform	146	
71-55-6	1,1,1-Trichloroethane	161	
110-82-7	Cyclohexane	151	
56-23-5	Carbon Tetrachloride	177	
563-58-6	1,1-Dichloropropene	152	
540-84-1	2,2,4-Trimethylpentane	153	
71-43-2	Benzene	144	
107-06-2	1,2-Dichloroethane	143	
78-83-1	Isobutyl alcohol	171	
79-01-6	Trichloroethene	149	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 150 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	157	
78-87-5	1,2-Dichloropropane	155	
74-95-3	Dibromomethane	143	
80-62-6	Methyl methacrylate	177	
75-27-4	Bromodichloromethane	165	
110-75-8	2-Chloroethyl vinyl ether	321	
10061-01-5	cis-1,3-Dichloropropene	178	
108-10-1	4-Methyl-2-Pentanone	723	
108-88-3	Toluene	141	
10061-02-6	trans-1,3-Dichloropropene	183	
	Ethyl Methacrylate	178	
79-00-5	1,1,2-Trichloroethane	144	
127-18-4	Tetrachloroethene	124	
142-28-9	1,3-Dichloropropane	147	
591-78-6	2-Hexanone	770	
124-48-1	Dibromochloromethane	180	
106-93-4	1,2-Dibromoethane	156	
108-90-7	Chlorobenzene	146	
630-20-6	1,1,1,2-Tetrachloroethane	173	
100-41-4	Ethylbenzene	153	
7816-60-0	m&p-Xylene	283	
95-47-6	o-Xylene	139	
100-42-5	Styrene	152	
75-25-2	Bromoform	210	
98-82-8	Isopropylbenzene	150	
108-86-1	Bromobenzene	142	
79-34-5	1,1,2,2-Tetrachloroethane	150	
96-18-4	1,2,3-Trichloropropane	165	
	trans-1,4-Dichloro-2-butene	185	
103-65-1	n-Propylbenzene	153	
95-49-8	2-Chlorotoluene	151	
108-67-8	1,3,5-Trimethylbenzene	150	
106-43-4	4-Chlorotoluene	145	
98-06-6	tert-Butylbenzene	147	
95-63-6	1,2,4-Trimethylbenzene	152	
135-98-8	sec-Butylbenzene	160	
541-73-1	1,3-Dichlorobenzene	157	
99-87-6	p-Isopropyltoluene	162	
106-46-7	1,4-Dichlorobenzene	154	
104-51-8	n-Butylbenzene	206	
95-50-1	1,2-Dichlorobenzene	154	
96-12-8	1,2-Dibromo-3-chloropropane	254	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

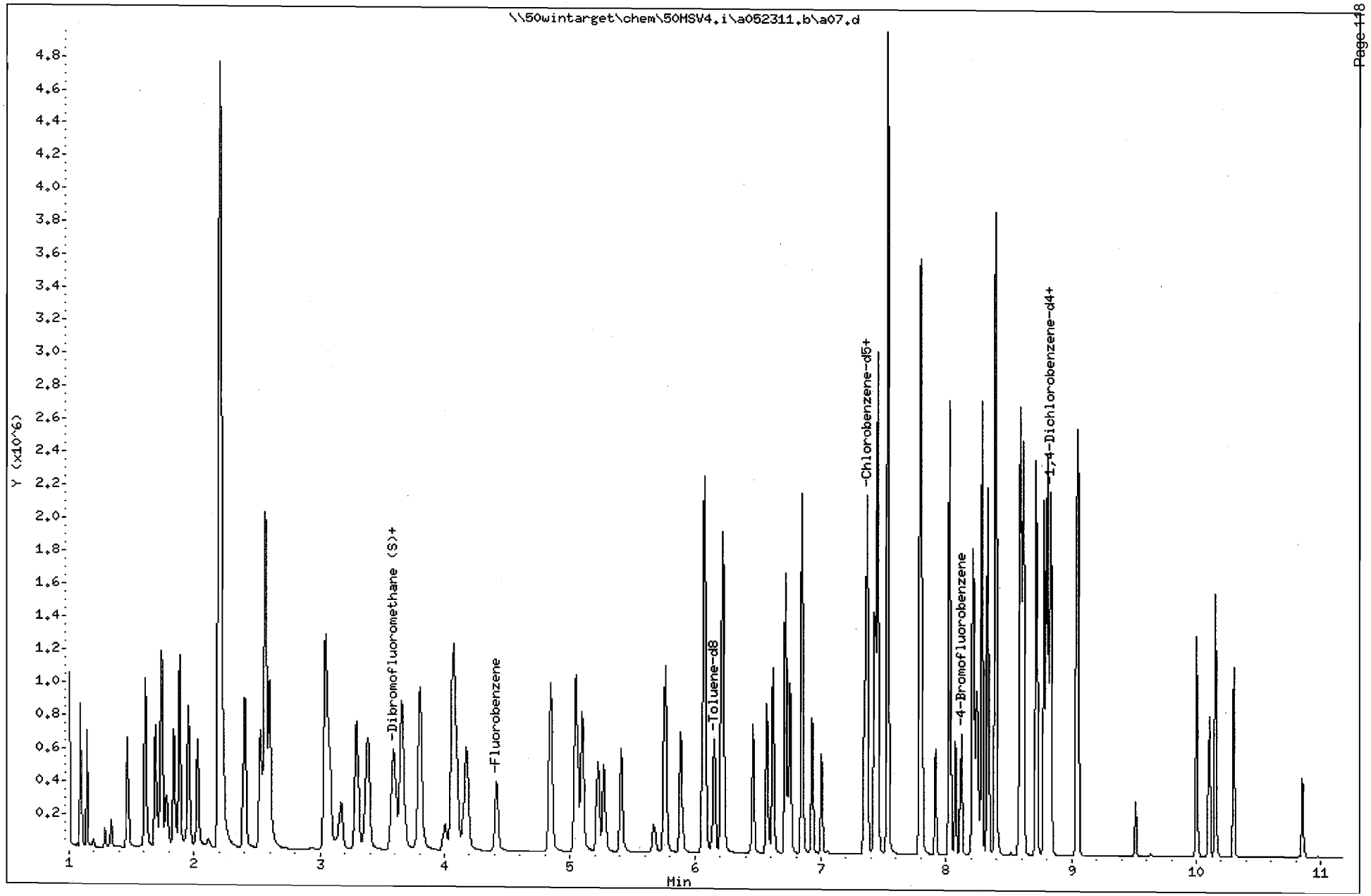
Client SDG: a052311.b
Client Smp ID: 150 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	388	
87-68-3	Hexachlorobutadiene	186	
91-20-3	Naphthalene	454	
87-61-6	1,2,3-Trichlorobenzene	309	
	2,methyl-naphthalene	528	
1868-53-7	Dibromofluoromethane (S)	49.8	
2037-26-5	Toluene-d8	49.9	
460-00-4	4-Bromofluorobenzene	50.4	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a07.d
Date : 23-MAY-2011 15:59
Client ID: 150 ppb
Sample Info: 150 ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i

Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a07.d

Date : 23-MAY-2011 15:59

Client ID: 150 ppb

Instrument: 50MSV4.i

Sample Info: 150 ppb

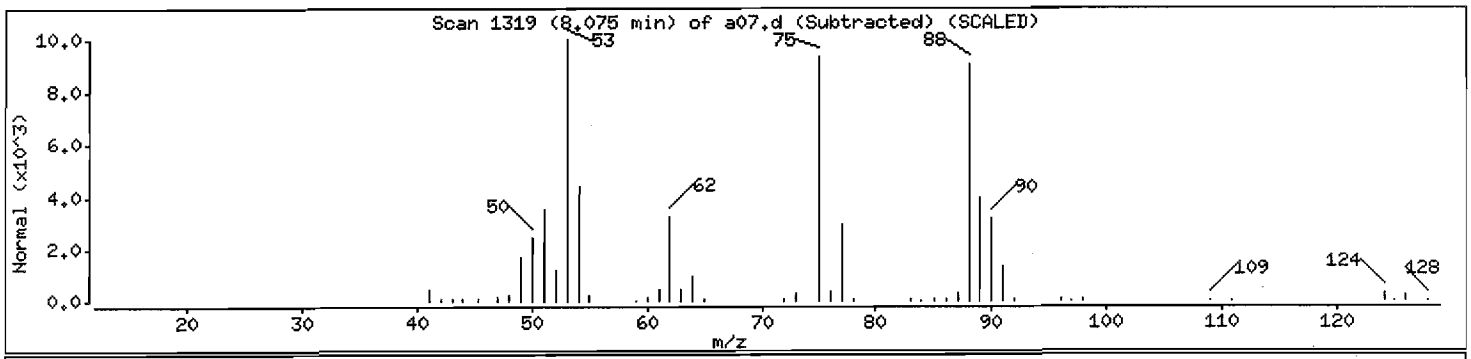
Purge Volume: 5.0

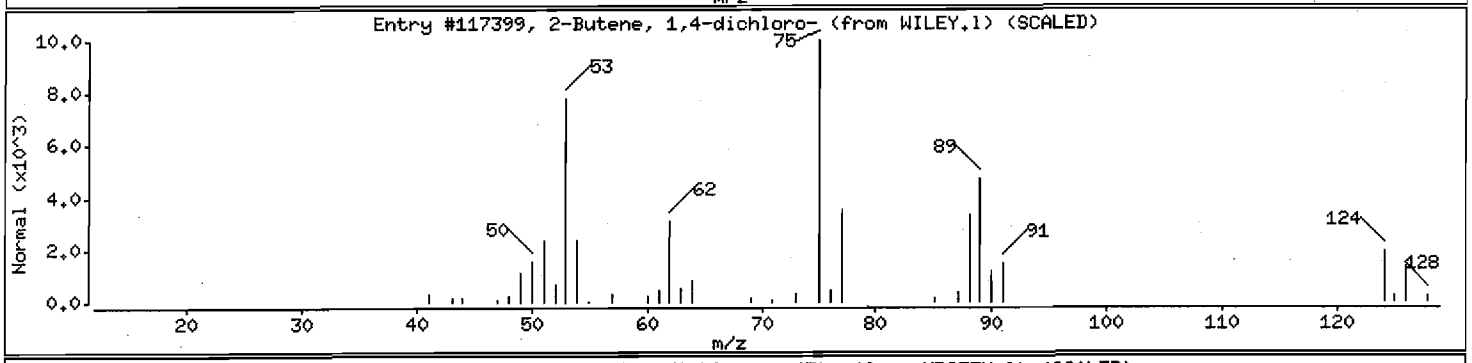
Operator: grm

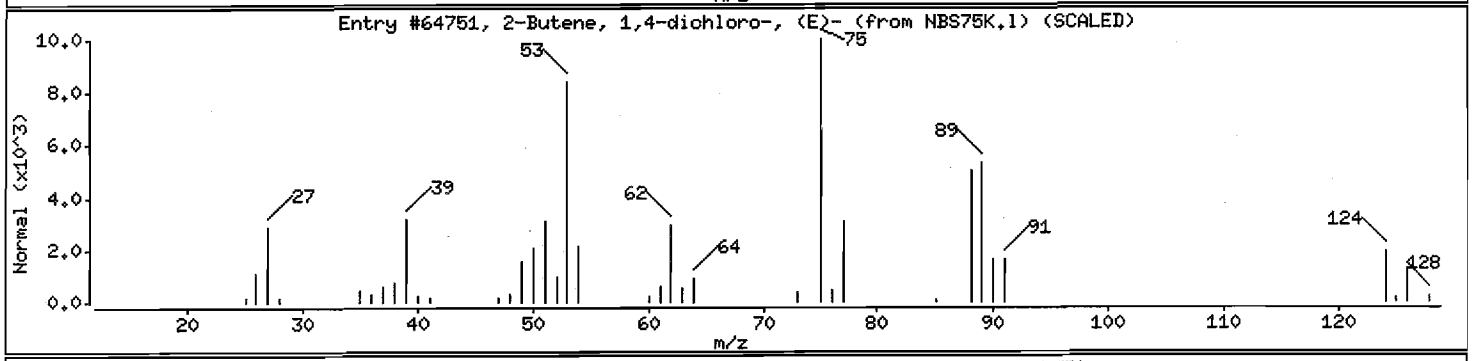
Column phase: DB-624

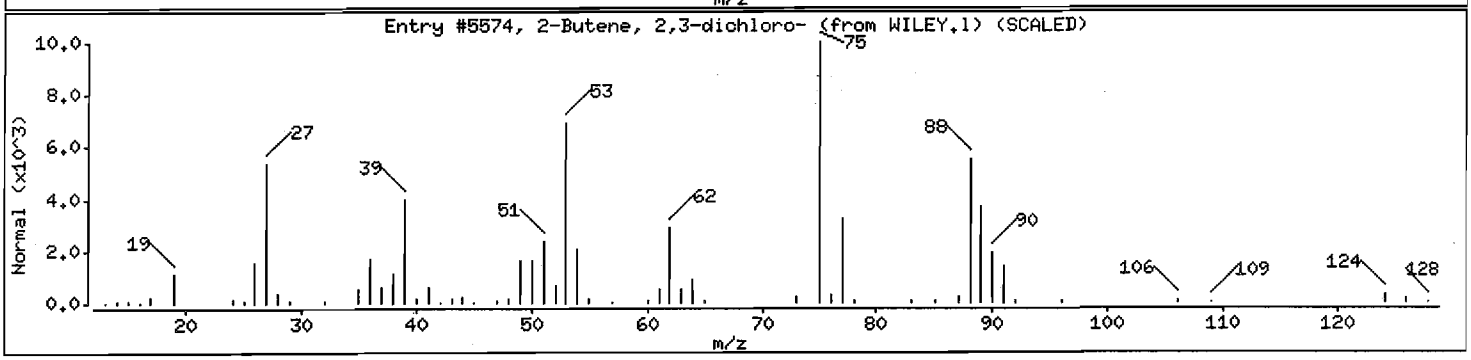
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 1,4-dichloro-	764-41-0	WILEY.l	117399	56	C4H6Cl2	124
2-Butene, 1,4-dichloro-, (E)-	110-57-6	NBS75K.l	64751	56	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	52	C4H6Cl2	124









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a08.d
Lab Smp Id: 300 ppb Client Smp ID: 300 ppb
Inj Date : 23-MAY-2011 16:32
Operator : grm Inst ID: 50MSV4.i
Smp Info : 300 ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 09-MAY-2011 19:35 Cal File: a13.d
Als bottle: 17 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.998	1.004	(0.226)	810421	300.000	292
2 Chloromethane	50	1.092	1.091	(0.247)	927548	300.000	347
3 Vinyl Chloride	62	1.144	1.144	(0.259)	644109	300.000	321
4 Bromomethane	94	1.284	1.295	(0.291)	61498	300.000	51.1
5 Chloroethane	64	1.325	1.348	(0.300)	56739	300.000	56.4
6 Trichlorofluoromethane	101	1.459	1.476	(0.331)	565452	300.000	246
7 1,2-dichlorotrifluoroethane	67	1.605	1.610	(0.364)	449935	300.000	291
8 Diethyl ether	74	1.610	1.616	(0.365)	203949	300.000	245
18 tert-Butyl Alcohol	59	2.135	2.100	(0.484)	114564	600.000	635
9 Acrolein	56	1.692	1.692	(0.383)	878540	6000.00	4700
10 1,1,2trichlorotrifluoroethane	101	1.727	1.738	(0.391)	386692	300.000	303
11 1,1-Dichloroethene	96	1.739	1.750	(0.394)	371320	300.000	292
12 Acetone	43	1.779	1.773	(0.403)	550711	1500.00	1030
143 Acetonitrile	41	1.948	1.949	(0.441)	912265	300.000	219(M)
13 Iodomethane	142	1.838	1.843	(0.416)	1188021	600.000	893
14 Carbon Disulfide	76	1.878	1.884	(0.426)	2038634	600.000	604
16 Methyl Acetate	43	1.966	1.966	(0.445)	330938	300.000	260
15 allyl chloride	41	1.948	1.954	(0.441)	990564	600.000	462
17 Methylene Chloride	84	2.024	2.030	(0.459)	419088	300.000	165
19 Acrylonitrile	53	2.199	2.193	(0.498)	3700655	6000.00	3940
20 Methyl-tert-butyl ether	73	2.217	2.211	(0.502)	2614573	600.000	505
21 1,2-Dichloroethene (trans)	96	2.205	2.211	(0.500)	499538	300.000	245
22 n-Hexane	57	2.391	2.403	(0.542)	811843	300.000	310

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	147 chloroprene	53	2.595	2.601	(0.588)	1092134	300.000	295
	23 1,1-Dichloroethane	63	2.520	2.525	(0.571)	1211900	300.000	301
	24 Vinyl Acetate	43	2.391	2.403	(0.542)	503783	1200.00	1180
	26 1,2-Dichloroethene (cis)	96	3.038	3.044	(0.688)	661067	300.000	285
	27 2,2-Dichloropropane	77	3.038	3.044	(0.688)	700394	300.000	328
	28 2-Butanone	43	3.079	3.067	(0.698)	1550704	1500.00	1320
	144 Methacrylonitrile	41	3.295	3.295	(0.746)	386943	300.000	283(M)
	30 Bromochloromethane	49	3.289	3.289	(0.745)	483916	300.000	230
	31 Tetrahydrofuran	42	3.365	3.359	(0.762)	211051	300.000	90.0
	32 Chloroform	83	3.382	3.382	(0.766)	1059865	300.000	300
$	33 Dibromofluoromethane (S)	113	3.569	3.569	(0.809)	105735	50.0000	50.2
	34 1,1,1-Trichloroethane	97	3.592	3.592	(0.814)	881689	300.000	333
	35 Cyclohexane	56	3.650	3.662	(0.827)	1191189	300.000	306
	36 Carbon Tetrachloride	117	3.796	3.802	(0.860)	750573	300.000	367
	37 1,1-Dichloropropene	75	3.802	3.802	(0.861)	816738	300.000	310
	141 2,2,4-Trimethylpentane	57	4.169	4.175	(0.945)	1592097	300.000	315
	39 Benzene	78	4.064	4.070	(0.921)	2476103	300.000	294
	40 1,2-Dichloroethane	62	4.099	4.099	(0.929)	800133	300.000	285
	38 Isobutyl alcohol	43	4.169	4.181	(0.945)	266364	300.000	336
*	41 Fluorobenzene	96	4.414	4.414	(1.000)	414913	50.0000	
	42 Trichloroethene	95	4.839	4.839	(1.096)	671611	300.000	307
	43 Methylcyclohexane	55	5.043	5.049	(1.143)	827585	300.000	319
	44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	699911	300.000	309
	45 Dibromomethane	93	5.224	5.218	(1.184)	365322	300.000	289
	46 Methyl methacrylate	69	5.271	5.271	(1.194)	394016	300.000	340
	47 Bromodichloromethane	83	5.411	5.405	(1.226)	755200	300.000	341
	48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	869119	600.000	617
	49 cis-1,3-Dichloropropene	75	5.889	5.888	(0.802)	931843	300.000	344
	50 4-Methyl-2-Pentanone	43	6.081	6.069	(0.828)	2726668	1500.00	1300
$	51 Toluene-d8	98	6.151	6.151	(0.837)	399471	50.0000	49.6
	52 Toluene	91	6.221	6.215	(0.847)	2533185	300.000	278
	53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	802978	300.000	360
	54 Ethyl Methacrylate	69	6.571	6.570	(0.894)	699578	300.000	329
	55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	438960	300.000	284
	56 Tetrachloroethene	166	6.716	6.716	(0.914)	742202	300.000	240
	57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	850952	300.000	284
	58 2-Hexanone	43	6.850	6.844	(0.933)	1913423	1500.00	1380
	59 Dibromochloromethane	129	6.932	6.926	(0.944)	615113	300.000	354
	60 1,2-Dibromoethane	107	7.008	7.002	(0.954)	545176	300.000	308
*	61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	311821	50.0000	
	62 Chlorobenzene	112	7.369	7.363	(1.003)	1676746	300.000	285
	63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	580768	300.000	344
	64 Ethylbenzene	106	7.451	7.451	(1.014)	822796	300.000	288
	65 m&p-Xylene	106	7.532	7.532	(1.025)	1853098	600.000	526
	67 o-Xylene	106	7.795	7.789	(1.061)	928133	300.000	270
	68 Styrene	104	7.806	7.800	(1.063)	1577950	300.000	287
	69 Bromoform	173	7.917	7.917	(0.898)	407814	300.000	415
	70 Isopropylbenzene	105	8.028	8.028	(1.093)	2396679	300.000	299
$	72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	145820	50.0000	50.9
	74 Bromobenzene	77	8.208	8.208	(1.117)	913972	300.000	293
	73 1,1,2,2-Tetrachloroethane	83	8.226	8.220	(0.933)	650440	300.000	286
	75 1,2,3-Trichloropropane	75	8.243	8.243	(0.935)	739177	300.000	323
	71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	203618	300.000	368
	76 n-Propylbenzene	91	8.284	8.284	(0.939)	2638643	300.000	290

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
77 2-Chlorotoluene	91	8.337	8.331	(0.945)	1568707	300.000	280
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.951)	1681950	300.000	284
79 4-Chlorotoluene	126	8.401	8.401	(0.952)	542361	300.000	272
80 tert-Butylbenzene	119	8.587	8.587	(0.974)	1974411	300.000	327
81 1,2,4-Trimethylbenzene	105	8.616	8.616	(0.977)	1802231	300.000	291
82 sec-Butylbenzene	105	8.715	8.715	(0.988)	2092378	300.000	313
83 1,3-Dichlorobenzene	146	8.780	8.779	(0.995)	1118682	300.000	308
84 p-Isopropyltoluene	119	8.803	8.803	(0.998)	1782040	300.000	316
* 85 1,4-Dichlorobenzene-d4	152	8.820	8.820	(1.000)	157756	50.0000	(Q)
86 1,4-Dichlorobenzene	146	8.832	8.832	(1.001)	1129818	300.000	302
87 n-Butylbenzene	91	9.042	9.042	(1.025)	1440534	300.000	390
88 1,2-Dichlorobenzene	146	9.054	9.053	(1.026)	1055347	300.000	301
89 1,2-Dibromo-3-chloropropane	155	9.514	9.514	(1.079)	113017	300.000	475
90 1,2,4-Trichlorobenzene	180	10.004	10.003	(1.134)	626502	300.000	689
91 Hexachlorobutadiene	225	10.103	10.108	(1.145)	252969	300.000	388
92 Naphthalene	128	10.155	10.155	(1.151)	1730475	300.000	707
93 1,2,3-Trichlorobenzene	180	10.301	10.301	(1.168)	545078	300.000	552
94 2,methyl-naphthalene	142	10.849	10.854	(1.230)	455456	300.000	640

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a08.d
Lab Smp Id: 300 ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: 300 ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	440486	220243	880972	414913	-5.81
61 Chlorobenzene-d5	332162	166081	664324	311821	-6.12
85 1,4-Dichlorobenze	162844	81422	325688	157756	-3.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.07

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.

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 300 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	292	
74-87-3	Chloromethane	347	
75-01-4	Vinyl Chloride	321	
74-83-9	Bromomethane	51.1	
75-00-3	Chloroethane	56.4	
75-69-4	Trichlorofluoromethane	246	
354-23-4	1,2-dichlorotrifluoroethane	291	
60-29-7	Diethyl ether	245	
75-65-0	tert-Butyl Alcohol	635	
107-02-8	Acrolein	4700	
76-13-1	1,1,2trichlorotrifluoroethan	303	
75-35-4	1,1-Dichloroethene	292	
67-64-1	Acetone	1030	
75-05-8	Acetonitrile	219	
	Iodomethane	893	
75-15-0	Carbon Disulfide	604	
79-20-9	Methyl Acetate	260	
107-05-1	allyl chloride	462	
75-09-2	Methylene Chloride	165	
107-13-1	Acrylonitrile	3940	
1634-04-4	Methyl-tert-butyl ether	505	
156-60-5	1,2-Dichloroethene (trans)	245	
	n-Hexane	310	
126-99-8	chloroprene	295	
75-34-3	1,1-Dichloroethane	301	
108-05-4	Vinyl Acetate	1180	
156-59-2	1,2-Dichloroethene (cis)	285	
594-20-7	2,2-Dichloropropane	328	
78-93-3	2-Butanone	1320	
126-98-7	Methacrylonitrile	283	
74-97-5	Bromochloromethane	230	
	Tetrahydrofuran	90.0	
67-66-3	Chloroform	300	
71-55-6	1,1,1-Trichloroethane	333	
110-82-7	Cyclohexane	306	
56-23-5	Carbon Tetrachloride	367	
563-58-6	1,1-Dichloropropene	310	
540-84-1	2,2,4-Trimethylpentane	315	
71-43-2	Benzene	294	
107-06-2	1,2-Dichloroethane	285	
78-83-1	Isobutyl alcohol	336	
79-01-6	Trichloroethene	307	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 300 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	319	
78-87-5	1,2-Dichloropropane	309	
74-95-3	Dibromomethane	289	
80-62-6	Methyl methacrylate	340	
75-27-4	Bromodichloromethane	341	
110-75-8	2-Chloroethyl vinyl ether	617	
10061-01-5	cis-1,3-Dichloropropene	344	
108-10-1	4-Methyl-2-Pentanone	1300	
108-88-3	Toluene	278	
10061-02-6	trans-1,3-Dichloropropene	360	
	Ethyl Methacrylate	329	
79-00-5	1,1,2-Trichloroethane	284	
127-18-4	Tetrachloroethene	240	
142-28-9	1,3-Dichloropropane	284	
591-78-6	2-Hexanone	1380	
124-48-1	Dibromochloromethane	354	
106-93-4	1,2-Dibromoethane	308	
108-90-7	Chlorobenzene	285	
630-20-6	1,1,1,2-Tetrachloroethane	344	
100-41-4	Ethylbenzene	288	
7816-60-0	m&p-Xylene	526	
95-47-6	o-Xylene	270	
100-42-5	Styrene	287	
75-25-2	Bromoform	415	
98-82-8	Isopropylbenzene	299	
108-86-1	Bromobenzene	293	
79-34-5	1,1,2,2-Tetrachloroethane	286	
96-18-4	1,2,3-Trichloropropane	323	
	trans-1,4-Dichloro-2-butene	368	
103-65-1	n-Propylbenzene	290	
95-49-8	2-Chlorotoluene	280	
108-67-8	1,3,5-Trimethylbenzene	284	
106-43-4	4-Chlorotoluene	272	
98-06-6	tert-Butylbenzene	327	
95-63-6	1,2,4-Trimethylbenzene	291	
135-98-8	sec-Butylbenzene	313	
541-73-1	1,3-Dichlorobenzene	308	
99-87-6	p-Isopropyltoluene	316	
106-46-7	1,4-Dichlorobenzene	302	
104-51-8	n-Butylbenzene	390	
95-50-1	1,2-Dichlorobenzene	301	
96-12-8	1,2-Dibromo-3-chloropropane	475	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

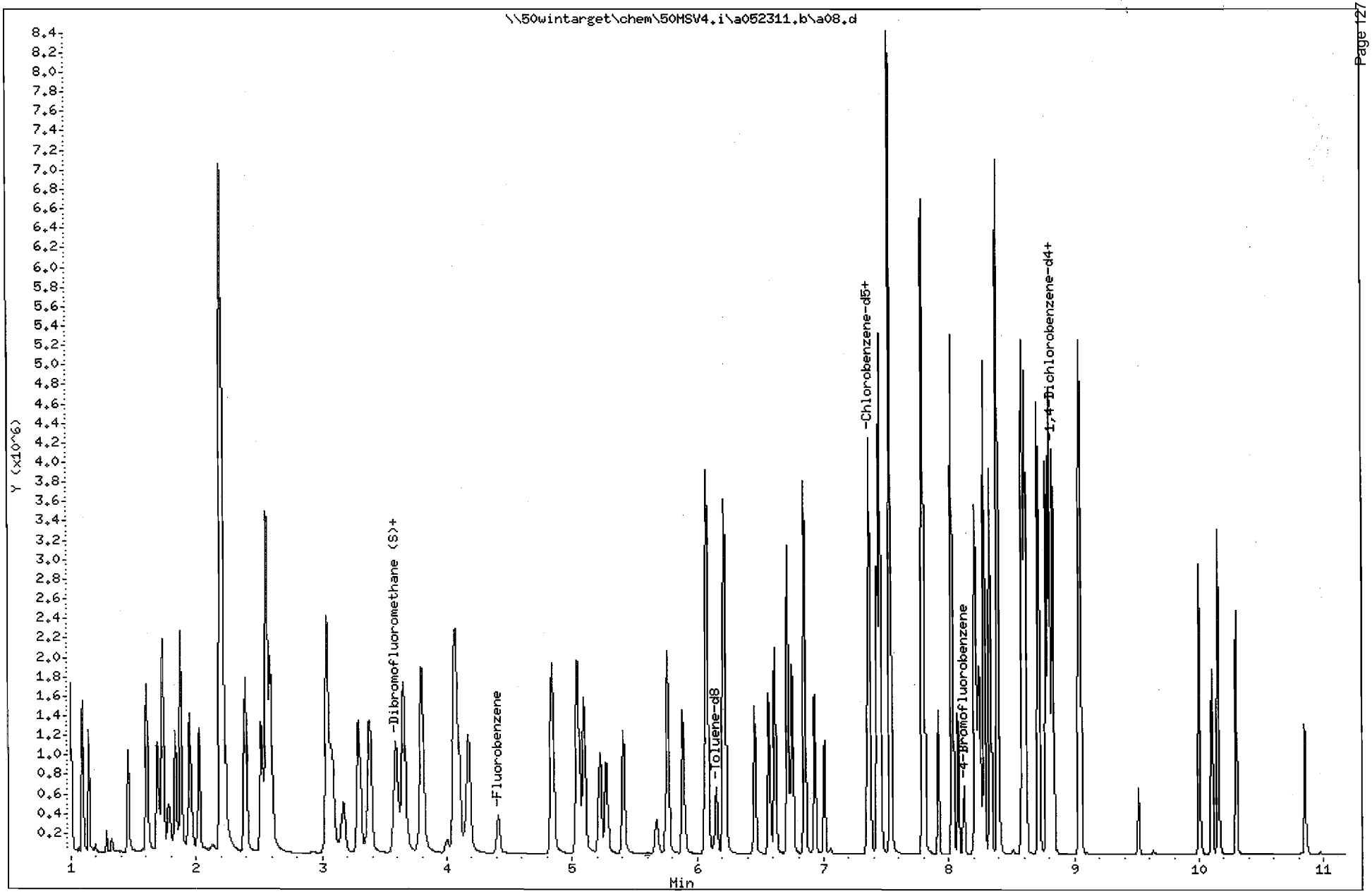
Client Name:
Lab Smp Id: 300 ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: 300 ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	689	
87-68-3	Hexachlorobutadiene	388	
91-20-3	Naphthalene	707	
87-61-6	1,2,3-Trichlorobenzene	552	
	2,methyl-naphthalene	640	
1868-53-7	Dibromofluoromethane (S)	50.2	
2037-26-5	Toluene-d8	49.6	
460-00-4	4-Bromofluorobenzene	50.9	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a08.d
Date : 23-MAY-2011 16:32
Client ID: 300 ppb
Sample Info: 300 ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a08.d

Date : 23-MAY-2011 16:32

Client ID: 300 ppb

Instrument: 50MSV4.i

Sample Info: 300 ppb

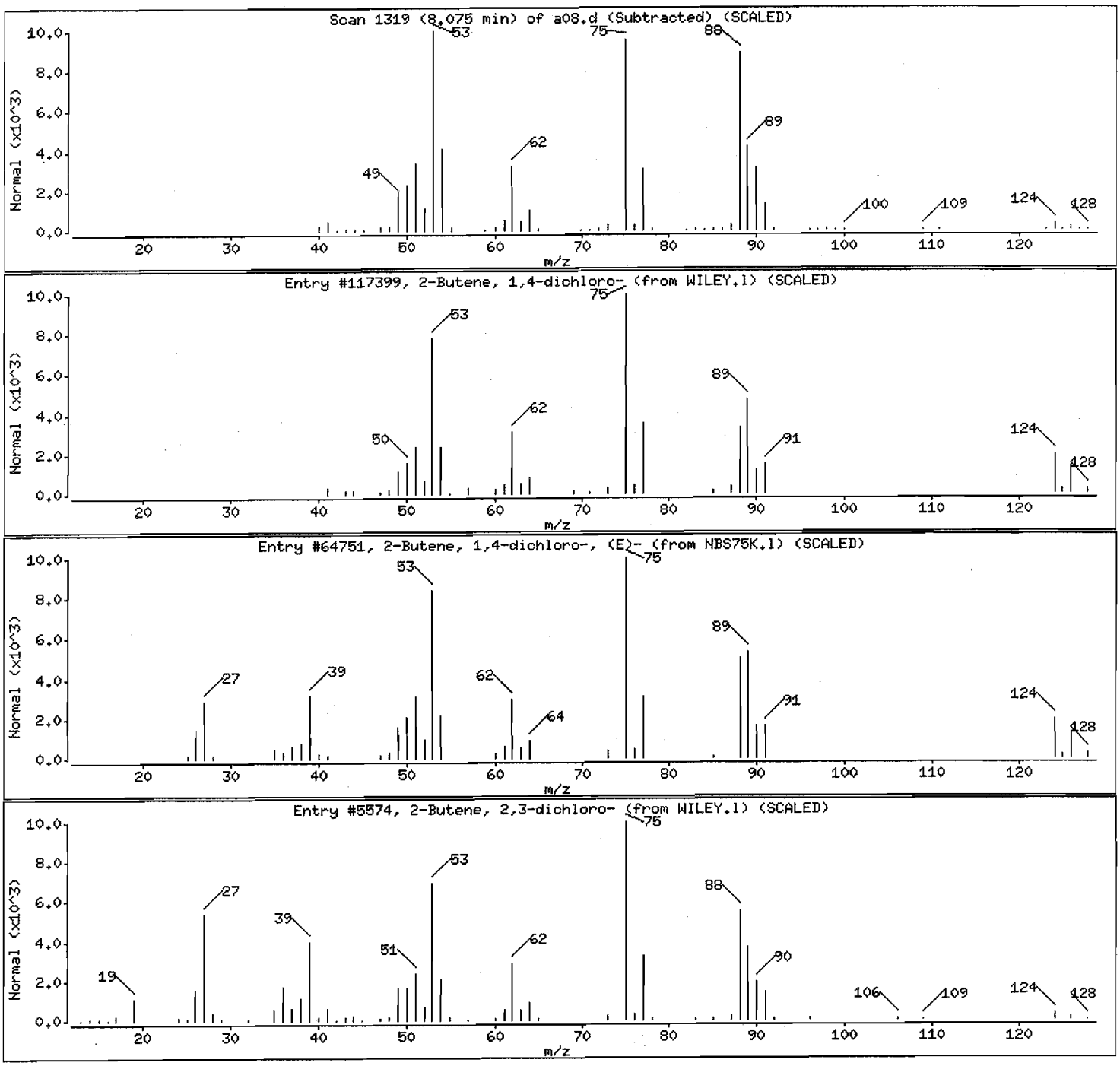
Purge Volume: 5.0

Operator: grm

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 1,4-dichloro-	764-41-0	WILEY.l	117399	72	C4H6Cl2	124
2-Butene, 1,4-dichloro-, (E)-	110-57-6	NBS75K.l	64751	56	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	52	C4H6Cl2	124



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a052311.b\a10icv.d
Lab Smp Id: icv 34d-321 Client Smp ID: icv
Inj Date : 23-MAY-2011 17:39
Operator : grm Inst ID: 50MSV4.i
Smp Info : icv 34d-321
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Meth Date : 24-May-2011 13:09 gmccreary Quant Type: ISTD
Cal Date : 23-MAY-2011 16:32 Cal File: a08.d
Als bottle: 21 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50VOA-TC

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.227)	151272	51.4845	51.5
2 Chloromethane	50	1.092	1.091	(0.247)	121218	41.8909	41.9
3 Vinyl Chloride	62	1.144	1.144	(0.259)	113554	52.8288	52.8
4 Bromomethane	94	1.301	1.295	(0.295)	64106	79.5841	79.6(R)
5 Chloroethane	64	1.348	1.348	(0.305)	48985	45.8929	45.9
6 Trichlorofluoromethane	101	1.476	1.476	(0.334)	116848	48.9286	48.9
7 1,2-dichlorotrifluoroethane	67	1.610	1.610	(0.364)	91191	55.7790	55.8
8 Diethyl ether	74	1.616	1.616	(0.366)	39227	52.7129	52.7
18 tert-Butyl Alcohol	59	2.100	2.100	(0.475)	18807	97.4726	97.5
9 Acrolein	56	1.692	1.692	(0.383)	96376	499.282	499(R)
10 1,1,2trichlorotrifluoroethane	101	1.739	1.738	(0.393)	71084	52.4394	52.4
11 1,1-Dichloroethene	96	1.750	1.750	(0.396)	69485	51.5591	51.6
12 Acetone	43	1.774	1.773	(0.401)	122853	306.601	307
13 Iodomethane	142	1.844	1.843	(0.417)	166960	79.9302	79.9
14 Carbon Disulfide	76	1.890	1.884	(0.428)	363986	101.403	101
16 Methyl Acetate	43	1.966	1.966	(0.445)	71408	53.7880	53.8
15 allyl chloride	41	1.954	1.954	(0.442)	205261	92.8066	92.8
17 Methylene Chloride	84	2.030	2.030	(0.459)	72859	48.3085	48.3
19 Acrylonitrile	53	2.193	2.193	(0.496)	910299	1218.38	1220
20 Methyl-tert-butyl ether	73	2.217	2.211	(0.502)	528101	98.0687	98.1
21 1,2-Dichloroethene (trans)	96	2.211	2.211	(0.500)	112141	53.0270	53.0
22 n-Hexane	57	2.403	2.403	(0.544)	169860	60.9108	60.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	147 chloroprene	53	2.601	2.601	(0.589)	153225	39.0657	39.1
	23 1,1-Dichloroethane	63	2.525	2.525	(0.571)	215289	50.3524	50.4
	24 Vinyl Acetate	43	2.403	2.403	(0.544)	105763	233.471	233
	26 1,2-Dichloroethene (cis)	96	3.044	3.044	(0.689)	130109	53.1497	53.1
	27 2,2-Dichloropropane	77	3.044	3.044	(0.689)	132882	57.9541	58.0
	28 2-Butanone	43	3.068	3.067	(0.694)	295440	241.192	241
	30 Bromochloromethane	49	3.295	3.289	(0.746)	103930	47.9734	48.0
	31 Tetrahydrofuran	42	3.359	3.359	(0.760)	41228	50.5198	50.5
	32 Chloroform	83	3.388	3.382	(0.767)	181999	48.4619	48.5
$	33 Dibromofluoromethane (S)	113	3.569	3.569	(0.807)	110118	49.2390	49.2
	34 1,1,1-Trichloroethane	97	3.598	3.592	(0.814)	150641	52.8115	52.8
	35 Cyclohexane	56	3.656	3.662	(0.827)	221851	53.5947	53.6
	145 isopropyl acetate	61	1.144	1.144	(0.259)	9630		(Q)
	36 Carbon Tetrachloride	117	3.802	3.802	(0.860)	117956	52.8807	52.9
	37 1,1-Dichloropropene	75	3.808	3.802	(0.862)	145042	51.6739	51.7
	141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.945)	284102	52.6758	52.7
	39 Benzene	78	4.070	4.070	(0.921)	461573	51.7306	51.7
	40 1,2-Dichloroethane	62	4.099	4.099	(0.927)	145681	49.1241	49.1
	38 Isobutyl alcohol	43	4.210	4.181	(0.953)	1088332	1153.90	1150(Q)
*	41 Fluorobenzene	96	4.420	4.414	(1.000)	440608	50.0000	
	42 Trichloroethene	95	4.845	4.839	(1.096)	119839	51.4497	51.4
	43 Methylcyclohexane	55	5.049	5.049	(1.142)	152209	54.7800	54.8
	142 1,4-Dioxane	88	5.271	5.277	(1.193)	25221		(Q)
	44 1,2-Dichloropropane	63	5.096	5.096	(1.153)	127787	52.9607	53.0
	45 Dibromomethane	93	5.218	5.218	(1.181)	66296	49.6279	49.6
	46 Methyl methacrylate	69	5.271	5.271	(1.193)	286465	229.219	229
	47 Bromodichloromethane	83	5.411	5.405	(1.224)	127403	53.2711	53.3
	48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	72023	48.5818	48.6
	49 cis-1,3-Dichloropropene	75	5.889	5.888	(0.802)	153362	53.0410	53.0
	50 4-Methyl-2-Pentanone	43	6.069	6.069	(0.826)	559670	258.819	259
$	51 Toluene-d8	98	6.151	6.151	(0.837)	422465	50.0665	50.1
	52 Toluene	91	6.221	6.215	(0.847)	491792	51.8902	51.9
	53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	121198	50.6263	50.6
	54 Ethyl Methacrylate	69	6.571	6.570	(0.894)	518522	229.772	230
	55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	80101	49.7628	49.8
	56 Tetrachloroethene	166	6.716	6.716	(0.914)	129148	47.4165	47.4
	57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	160534	51.5179	51.5
	58 2-Hexanone	43	6.844	6.844	(0.932)	402955	279.311	279
	59 Dibromochloromethane	129	6.926	6.926	(0.943)	96898	52.0534	52.0
	60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	98301	52.7826	52.8
*	61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	326851	50.0000	
	62 Chlorobenzene	112	7.369	7.363	(1.003)	310476	50.7083	50.7
	63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	94064	52.2059	52.2
	64 Ethylbenzene	106	7.451	7.451	(1.014)	166914	56.0354	56.0
	65 m&p-Xylene	106	7.532	7.532	(1.025)	398484	109.584	110
	67 o-Xylene	106	7.789	7.789	(1.060)	186786	52.5383	52.5
	68 Styrene	104	7.800	7.800	(1.062)	326644	57.0040	57.0
	69 Bromoform	173	7.917	7.917	(0.898)	56862	43.3098	43.3
	70 Isopropylbenzene	105	8.028	8.028	(1.093)	444947	52.9878	53.0
$	72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	152088	50.5268	50.5
	74 Bromobenzene	77	8.208	8.208	(1.117)	170544	52.2663	52.3
	73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.932)	120613	52.1859	52.2
	75 1,2,3-Trichloropropane	75	8.255	8.243	(0.936)	230278	97.5156	97.5
	71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	128367	181.593	182(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	
76 n-Propylbenzene	91	8.284	8.284	(0.939)	508132	54.8546	54.8	
77 2-Chlorotoluene	91	8.331	8.331	(0.944)	312235	55.0369	55.0	
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.951)	340443	56.5770	56.6	
79 4-Chlorotoluene	126	8.401	8.401	(0.952)	108294	53.8638	53.9	
80 tert-Butylbenzene	119	8.587	8.587	(0.974)	295462	47.3638	47.4	
81 1,2,4-Trimethylbenzene	105	8.616	8.616	(0.977)	332135	52.7547	52.8	
82 sec-Butylbenzene	105	8.715	8.715	(0.988)	390472	56.8451	56.8	
83 1,3-Dichlorobenzene	146	8.780	8.779	(0.995)	197702	53.1695	53.2	
84 p-Isopropyltoluene	119	8.803	8.803	(0.998)	328213	56.6178	56.6	
* 85 1,4-Dichlorobenzene-d4	152	8.820	8.820	(1.000)	161213	50.0000		(Q)
86 1,4-Dichlorobenzene	146	8.832	8.832	(1.001)	198882	52.0620	52.1	
87 n-Butylbenzene	91	9.042	9.042	(1.025)	269009	55.4126	55.4	
88 1,2-Dichlorobenzene	146	9.054	9.053	(1.026)	194061	54.1541	54.2	
89 1,2-Dibromo-3-chloropropane	155	9.514	9.514	(1.079)	16353	45.5578	45.6	
90 1,2,4-Trichlorobenzene	180	10.004	10.003	(1.134)	92738	47.3362	47.3	
91 Hexachlorobutadiene	225	10.109	10.108	(1.146)	41447	50.6805	50.7	
92 Naphthalene	128	10.155	10.155	(1.151)	254260	47.1431	47.1	
93 1,2,3-Trichlorobenzene	180	10.301	10.301	(1.168)	80512	48.7864	48.8	
94 2,methyl-naphthalene	142	10.855	10.854	(1.231)	24639	24.5951	24.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a10icv.d
Lab Smp Id: icv 34d-321
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Calibration Date: 24-MAY-2011
Calibration Time: 00:54
Client Smp ID: icv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	428213	214107	856426	440608	2.89
61 Chlorobenzene-d5	315268	157634	630536	326851	3.67
85 1,4-Dichlorobenze	158239	79120	316478	161213	1.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.42	0.14
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: icv 34d-321
Level: LOW
Data Type: MS DATA
SpikeList File: 8260icvxx.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV4.i\a052311.b\a8260_a_b.m
Misc Info:

Client SDG: a052311.b
Fraction: VOA
Client Smp ID: icv
Operator: grm
SampleType: ICV
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	51.5	102.97	70-130
2 Chloromethane	50.0	41.9	83.78	70-130
3 Vinyl Chloride	50.0	52.8	105.66	70-130
4 Bromomethane	50.0	79.6	159.17*	70-130
5 Chloroethane	50.0	45.9	91.79	70-130
6 Trichlorofluoromet	50.0	48.9	97.86	70-130
7 1,2-dichlorotriflu	50.0	55.8	111.56	70-130
8 Diethyl ether	50.0	52.7	105.43	70-130
9 Acrolein	1000	499	49.93*	70-130
11 1,1-Dichloroethene	50.0	51.6	103.12	70-130
10 1,1,2trichlorotrif	50.0	52.4	104.88	70-130
12 Acetone	250	307	122.64	70-130
13 Iodomethane	100	79.9	79.93	70-130
14 Carbon Disulfide	100	101	101.40	70-130
16 Methyl Acetate	50.0	53.8	107.58	70-130
15 allyl chloride	100	92.8	92.81	70-130
17 Methylene Chloride	50.0	48.3	96.62	70-130
19 Acrylonitrile	1000	1220	121.84	70-130
21 1,2-Dichloroethene	50.0	53.0	106.05	70-130
20 Methyl-tert-butyl	100	98.1	98.07	70-130
22 n-Hexane	50.0	60.9	121.82	70-130
23 1,1-Dichloroethane	50.0	50.4	100.70	70-130
24 Vinyl Acetate	200	233	116.74	70-130
26 1,2-Dichloroethene	50.0	53.1	106.30	70-130
27 2,2-Dichloropropan	50.0	58.0	115.91	70-130
28 2-Butanone	250	241	96.48	70-130
30 Bromochloromethane	50.0	48.0	95.95	70-130
32 Chloroform	50.0	48.5	96.92	70-130
34 1,1,1-Trichloroeth	50.0	52.8	105.62	70-130
35 Cyclohexane	50.0	53.6	107.19	70-130
37 1,1-Dichloropropen	50.0	51.7	103.35	70-130
36 Carbon Tetrachlori	50.0	52.9	105.76	70-130
39 Benzene	50.0	51.7	103.46	70-130
40 1,2-Dichloroethane	50.0	49.1	98.25	70-130
42 Trichloroethene	50.0	51.4	102.90	70-130
43 Methylcyclohexane	50.0	54.8	109.56	70-130
44 1,2-Dichloropropan	50.0	53.0	105.92	70-130
45 Dibromomethane	50.0	49.6	99.26	70-130
46 Methyl methacrylat	200	229	114.61	70-130
47 Bromodichlorometha	50.0	53.3	106.54	70-130

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
49 cis-1,3-Dichloropr	50.0	53.0	106.08	70-130
50 4-Methyl-2-Pentano	250	259	103.53	70-130
52 Toluene	50.0	51.9	103.78	70-130
53 trans-1,3-Dichloro	50.0	50.6	101.25	70-130
54 Ethyl Methacrylate	200	230	114.89	70-130
55 1,1,2-Trichloroeth	50.0	49.8	99.53	70-130
56 Tetrachloroethene	50.0	47.4	94.83	70-130
57 1,3-Dichloropropan	50.0	51.5	103.04	70-130
58 2-Hexanone	250	279	111.72	70-130
59 Dibromochlorometha	50.0	52.0	104.11	70-130
60 1,2-Dibromoethane	50.0	52.8	105.57	70-130
62 Chlorobenzene	50.0	50.7	101.42	70-130
63 1,1,1,2-Tetrachlor	50.0	52.2	104.41	70-130
64 Ethylbenzene	50.0	56.0	112.07	70-130
65 m&p-Xylene	100	110	109.58	70-130
67 o-Xylene	50.0	52.5	105.08	70-130
68 Styrene	50.0	57.0	114.01	70-130
69 Bromoform	50.0	43.3	86.62	70-130
70 Isopropylbenzene	50.0	53.0	105.98	70-130
71 trans-1,4-Dichloro	200	182	90.80	70-130
73 1,1,2,2-Tetrachlor	50.0	52.2	104.37	70-130
74 Bromobenzene	50.0	52.3	104.53	70-130
75 1,2,3-Trichloropro	100	97.5	97.52	70-130
76 n-Propylbenzene	50.0	54.8	109.71	70-130
77 2-Chlorotoluene	50.0	55.0	110.07	70-130
79 4-Chlorotoluene	50.0	53.9	107.73	70-130
78 1,3,5-Trimethylben	50.0	56.6	113.15	70-130
80 tert-Butylbenzene	50.0	47.4	94.73	70-130
81 1,2,4-Trimethylben	50.0	52.8	105.51	70-130
82 sec-Butylbenzene	50.0	56.8	113.69	70-130
83 1,3-Dichlorobenzen	50.0	53.2	106.34	70-130
84 p-Isopropyltoluene	50.0	56.6	113.24	70-130
86 1,4-Dichlorobenzen	50.0	52.1	104.12	70-130
87 n-Butylbenzene	50.0	55.4	110.83	70-130
88 1,2-Dichlorobenzen	50.0	54.2	108.31	70-130
90 1,2,4-Trichloroben	50.0	47.3	94.67	70-130
93 1,2,3-Trichloroben	50.0	48.8	97.57	70-130
89 1,2-Dibromo-3-chlo	50.0	45.6	91.12	70-130
91 Hexachlorobutadien	50.0	50.7	101.36	70-130
92 Naphthalene	50.0	47.1	94.29	70-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 33 Dibromofluorometha	50.0	49.2	98.48	80-123
$ 51 Toluene-d8	50.0	50.1	100.13	80-116
$ 72 4-Bromofluorobenze	50.0	50.5	101.05	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34d-321
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	51.5	
74-87-3	Chloromethane	41.9	
75-01-4	Vinyl Chloride	52.8	
74-83-9	Bromomethane	79.6	
75-00-3	Chloroethane	45.9	
75-69-4	Trichlorofluoromethane	48.9	
354-23-4	1,2-dichlorotrifluoroethane	55.8	
60-29-7	Diethyl ether	52.7	
75-65-0	tert-Butyl Alcohol	97.5	
107-02-8	Acrolein	499	
76-13-1	1,1,2trichlorotrifluoroethan	52.4	
75-35-4	1,1-Dichloroethene	51.6	
67-64-1	Acetone	307	
	Iodomethane	79.9	
75-15-0	Carbon Disulfide	101	
79-20-9	Methyl Acetate	53.8	
107-05-1	allyl chloride	92.8	
75-09-2	Methylene Chloride	48.3	
107-13-1	Acrylonitrile	1220	
1634-04-4	Methyl-tert-butyl ether	98.1	
156-60-5	1,2-Dichloroethene (trans)	53.0	
	n-Hexane	60.9	
126-99-8	chloroprene	39.1	
75-34-3	1,1-Dichloroethane	50.4	
108-05-4	Vinyl Acetate	233	
156-59-2	1,2-Dichloroethene (cis)	53.1	
594-20-7	2,2-Dichloropropane	58.0	
78-93-3	2-Butanone	241	
74-97-5	Bromochloromethane	48.0	
	Tetrahydrofuran	50.5	
67-66-3	Chloroform	48.5	
71-55-6	1,1,1-Trichloroethane	52.8	
110-82-7	Cyclohexane	53.6	
108-21-4	isopropyl acetate	0.000	
56-23-5	Carbon Tetrachloride	52.9	
563-58-6	1,1-Dichloropropene	51.7	
540-84-1	2,2,4-Trimethylpentane	52.7	
71-43-2	Benzene	51.7	
107-06-2	1,2-Dichloroethane	49.1	
78-83-1	Isobutyl alcohol	1150	
79-01-6	Trichloroethene	51.4	
108-87-2	Methylcyclohexane	54.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34d-321
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
----------	1,4-Dioxane	0.000	
78-87-5---------	1,2-Dichloropropane	53.0	
74-95-3---------	Dibromomethane	49.6	
80-62-6---------	Methyl methacrylate	229	
75-27-4---------	Bromodichloromethane	53.3	
110-75-8--------	2-Chloroethyl vinyl ether	48.6	
10061-01-5------	cis-1,3-Dichloropropene	53.0	
108-10-1--------	4-Methyl-2-Pentanone	259	
108-88-3--------	Toluene	51.9	
10061-02-6------	trans-1,3-Dichloropropene	50.6	
----------	Ethyl Methacrylate	230	
79-00-5---------	1,1,2-Trichloroethane	49.8	
127-18-4--------	Tetrachloroethene	47.4	
142-28-9--------	1,3-Dichloropropane	51.5	
591-78-6--------	2-Hexanone	279	
124-48-1--------	Dibromochloromethane	52.0	
106-93-4--------	1,2-Dibromoethane	52.8	
108-90-7--------	Chlorobenzene	50.7	
630-20-6--------	1,1,1,2-Tetrachloroethane	52.2	
100-41-4--------	Ethylbenzene	56.0	
7816-60-0-------	m&p-Xylene	110	
95-47-6---------	o-Xylene	52.5	
100-42-5--------	Styrene	57.0	
75-25-2---------	Bromoform	43.3	
98-82-8---------	Isopropylbenzene	53.0	
108-86-1--------	Bromobenzene	52.3	
79-34-5---------	1,1,2,2-Tetrachloroethane	52.2	
96-18-4---------	1,2,3-Trichloropropane	97.5	
----------	trans-1,4-Dichloro-2-butene	182	
103-65-1--------	n-Propylbenzene	54.8	
95-49-8---------	2-Chlorotoluene	55.0	
108-67-8--------	1,3,5-Trimethylbenzene	56.6	
106-43-4--------	4-Chlorotoluene	53.9	
98-06-6---------	tert-Butylbenzene	47.4	
95-63-6---------	1,2,4-Trimethylbenzene	52.8	
135-98-8--------	sec-Butylbenzene	56.8	
541-73-1--------	1,3-Dichlorobenzene	53.2	
99-87-6---------	p-Isopropyltoluene	56.6	
106-46-7--------	1,4-Dichlorobenzene	52.1	
104-51-8--------	n-Butylbenzene	55.4	
95-50-1---------	1,2-Dichlorobenzene	54.2	
96-12-8---------	1,2-Dibromo-3-chloropropane	45.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

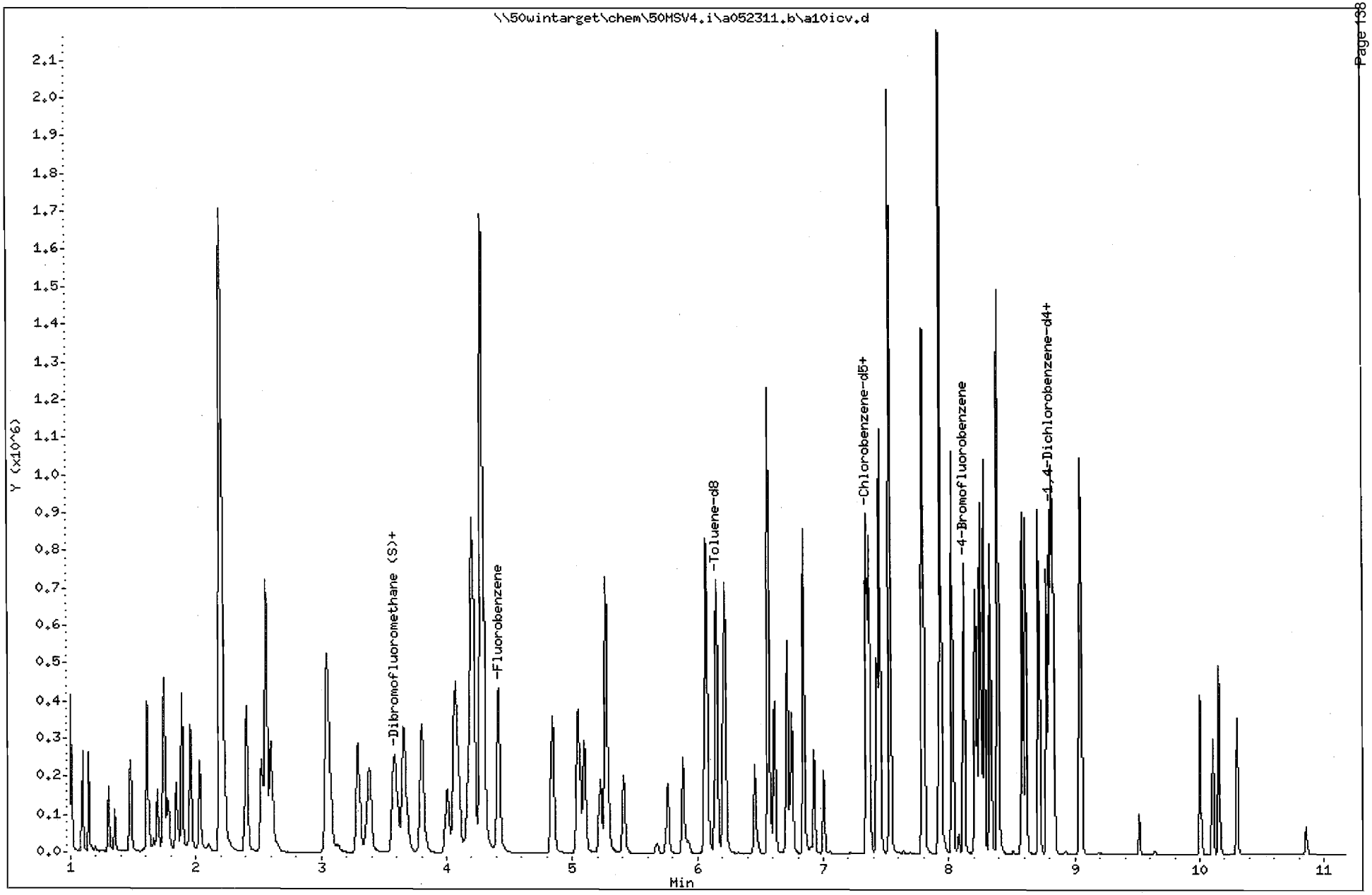
Client Name:
Lab Smp Id: icv 34d-321
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: a052311.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	47.3	
87-68-3	Hexachlorobutadiene	50.7	
91-20-3	Naphthalene	47.1	
87-61-6	1,2,3-Trichlorobenzene	48.8	
	2,methyl-naphthalene	24.6	
1868-53-7	Dibromofluoromethane (S)	49.2	
2037-26-5	Toluene-d8	50.1	
460-00-4	4-Bromofluorobenzene	50.5	

Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a10icv.d
Date : 23-MAY-2011 17:39
Client ID: icv
Sample Info: icv 34d-321
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a052311.b\a10icv.d

Date : 23-MAY-2011 17:39

Client ID: icv

Instrument: 50MSV4.i

Sample Info: icv 34d-321

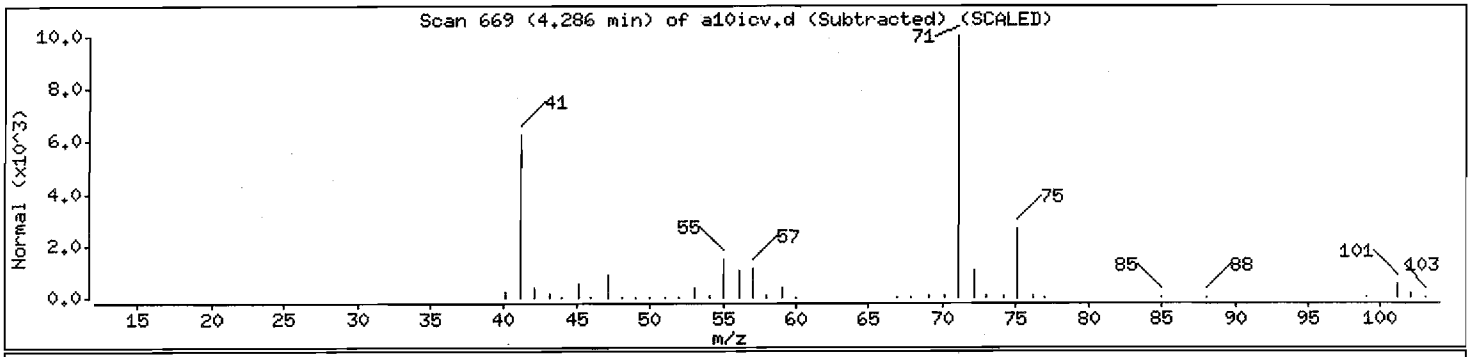
Purge Volume: 5.0

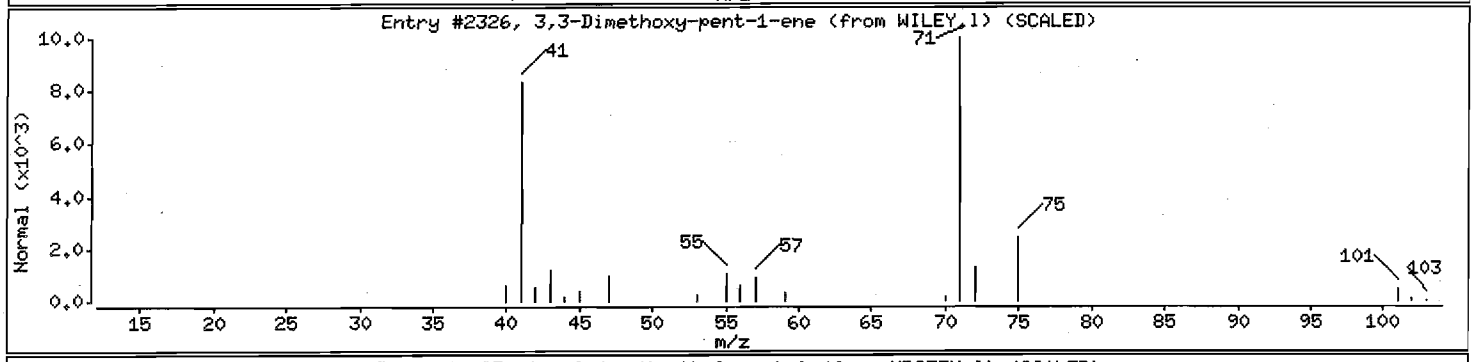
Operator: grm

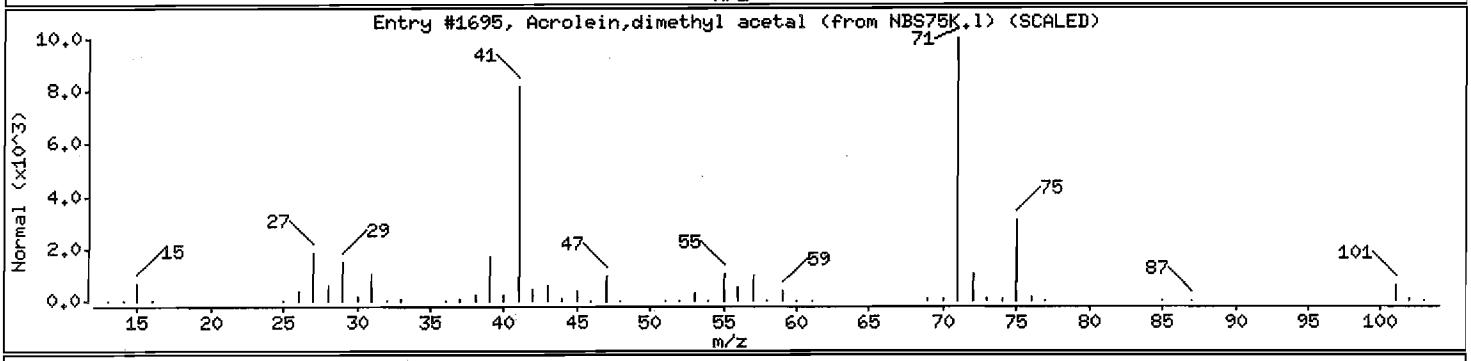
Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3,3-Dimethoxy-pent-1-ene	0-00-0	WILEY.l	2326	91	C5H10O2	102
Acrolein,dimethyl acetal	6044-68-4	NBS75K.l	1695	78	C5H10O2	102







Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 3: Calibration Verification Data

** BFB Summary (Form 5A)*
** Calibration Verification Summary (Form 7A)*
** BFB Tune*
** Calibration Verification Standards*

5A

BFB ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061311.B

Lab File ID: A00BFB BFB Injection Date: 06/13/11

Instrument ID: 50MSV4 BFB Injection Time: 1138

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	42.7
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	90.4
175	5.0 - 9.0% of mass 174	6.9 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	89.0 (98.4)1
177	5.0 - 9.0% of mass 176	5.8 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV 34D-402/39	A01CCV	06/13/11	1212
02	LCS	584725	A02LCS-FULL	06/13/11	1245
03	LCS	584722	A02LCS	06/13/11	1245
04	MB	584724	A03MB-FULL	06/13/11	1319
05	MB	584721	A03MB	06/13/11	1319
06	5049287001	5049287001	A04	06/13/11	1352
07	5049287002	5049287002	A05	06/13/11	1426
08	5049287003	5049287003	A06	06/13/11	1459
09	5049287004	5049287004	A08	06/13/11	1606
10	5049287005	5049287005	A10	06/13/11	1713
11	5049649001	5049649001	A12	06/13/11	1820
12	5049649002	5049649002	A13	06/13/11	1853
13	5049649003	5049649003	A14	06/13/11	1927
14	5049649004	5049649004	A15	06/13/11	2000
15	5049287007	5049287007	A16	06/13/11	2034
16	5049287008	5049287008	A17	06/13/11	2107
17	5049287010	5049287010	A19	06/13/11	2214
18	5049287011	5049287011	A20	06/13/11	2247
19	MS5049287002	584723	A21	06/13/11	2321
20					
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061311.B

Instrument ID: 50MSV4 Calibration Date: 06/13/11 Time: 1212

Lab File ID: A01CCV Init. Calib. Date(s): 05/23/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D
Bromochloromethane	48.002	50.000	AVRG	3.9960
Chloromethane	41.846	50.000	AVRG	16.308
Bromomethane	43.218	50.000	LINR	13.564
Vinyl Chloride	49.581	50.000	AVRG	0.8380
Chloroethane	41.424	50.000	AVRG	17.152
Methylene Chloride	51.422	50.000	LINR	-2.844
1,1-Dichloroethene	54.442	50.000	AVRG	-8.884
1,1-Dichloroethane	51.213	50.000	AVRG	-2.426
1,2-Dichloroethene (trans)	52.422	50.000	AVRG	-4.844
Chloroform	50.060	50.000	AVRG	-0.120
1,2-Dichloroethane	48.608	50.000	AVRG	2.7840
1,1,1-Trichloroethane	54.479	50.000	AVRG	-8.958
Carbon Tetrachloride	58.894	50.000	AVRG	-17.79
Bromodichloromethane	54.319	50.000	AVRG	-8.638
1,2-Dichloropropane	52.253	50.000	AVRG	-4.506
trans-1,3-Dichloropropene	55.301	50.000	AVRG	-10.60
Trichloroethene	51.658	50.000	AVRG	-3.316
Dibromochloromethane	57.099	50.000	AVRG	-14.20
1,1,2-Trichloroethane	49.344	50.000	AVRG	1.3120
Benzene	49.147	50.000	AVRG	1.7060
cis-1,3-Dichloropropene	53.948	50.000	AVRG	-7.896
Bromoform	49.152	50.000	LINR	1.6960
Tetrachloroethene	47.142	50.000	LINR	5.7160
1,1,2,2-Tetrachloroethane	#50.592	50.000	AVRG	-1.184#
Toluene	46.413	50.000	AVRG	7.1740
Chlorobenzene	#49.858	50.000	AVRG	0.2840#
Ethylbenzene	51.705	50.000	AVRG	-3.410
Styrene	53.066	50.000	AVRG	-6.132
Trichlorofluoromethane	54.903	50.000	AVRG	-9.806
m&p-Xylene	99.597	100.00	AVRG	0.4030
1,2-Dichloroethene (cis)	49.257	50.000	AVRG	1.4860
o-Xylene	50.777	50.000	AVRG	-1.554
1,2,3-Trichloropropane	53.101	50.000	AVRG	-6.202
1,3-Dichlorobenzene	52.505	50.000	AVRG	-5.010
1,4-Dichlorobenzene	50.897	50.000	AVRG	-1.794
Dibromomethane	51.141	50.000	AVRG	-2.282
1,2-Dichlorobenzene	51.001	50.000	AVRG	-2.002
Dichlorodifluoromethane	46.562	50.000	AVRG	6.8760

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061311.B

Instrument ID: 50MSV4 Calibration Date: 06/13/11 Time: 1212

Lab File ID: A01CCV Init. Calib. Date(s): 05/23/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
2,2-Dichloropropane	57.314	50.000	AVRG	-14.63	
1,1-Dichloropropene	53.472	50.000	AVRG	-6.944	
1,3-Dichloropropane	48.333	50.000	AVRG	3.3340	
1,2-Dibromoethane	53.055	50.000	AVRG	-6.110	
1,1,1,2-Tetrachloroethane	55.450	50.000	AVRG	-10.90	
Isopropylbenzene	50.328	50.000	AVRG	-0.656	
Bromobenzene	49.208	50.000	AVRG	1.5840	
n-Propylbenzene	50.522	50.000	AVRG	-1.044	
2-Chlorotoluene	49.457	50.000	AVRG	1.0860	
4-Chlorotoluene	50.912	50.000	AVRG	-1.824	
1,3,5-Trimethylbenzene	51.371	50.000	AVRG	-2.742	
tert-Butylbenzene	55.638	50.000	AVRG	-11.28	
1,2,4-Trimethylbenzene	51.450	50.000	AVRG	-2.900	
sec-Butylbenzene	52.275	50.000	AVRG	-4.550	
p-Isopropyltoluene	54.078	50.000	AVRG	-8.156	
n-Butylbenzene	50.434	50.000	LINR	-0.868	
1,2-Dibromo-3-chloropropane	42.338	50.000	LINR	15.324	
1,2,4-Trichlorobenzene	45.387	50.000	LINR	9.2260	
Hexachlorobutadiene	48.984	50.000	LINR	2.0320	
Naphthalene	41.239	50.000	LINR	17.522	
1,2,3-Trichlorobenzene	45.313	50.000	LINR	9.3740	
Acrolein	1251.9	1000.0	AVRG	-25.19	<-
Carbon Disulfide	108.17	100.00	AVRG	-8.170	
Acetone	266.66	250.00	LINR	-6.664	
Acrylonitrile	1231.8	1000.0	LINR	-23.18	<-
Vinyl Acetate	216.68	200.00	AVRG	-8.340	
2-Butanone	227.79	250.00	AVRG	8.8840	
2-Chloroethyl vinyl ether	102.69	100.00	AVRG	-2.690	
4-Methyl-2-Pentanone	241.14	250.00	AVRG	3.5440	
2-Hexanone	250.96	250.00	AVRG	-0.384	
Methyl-tert-butyl ether	102.01	100.00	AVRG	-2.010	
Iodomethane	91.976	100.00	LINR	8.0240	
trans-1,4-Dichloro-2-butene	45.616	50.000	LINR	8.7680	
Ethyl Methacrylate	56.418	50.000	AVRG	-12.84	
2,methyl-naphthalene	7.3343	50.000	AVRG	85.331	<-
n-Hexane	55.432	50.000	AVRG	-10.86	
1,1,2trichlorotrifluoroetha	59.174	50.000	AVRG	-18.35	
1,2-dichlorotrifluoroethane	56.050	50.000	AVRG	-12.10	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: A061311.B

Instrument ID: 50MSV4 Calibration Date: 06/13/11 Time: 1212

Lab File ID: A01CCV Init. Calib. Date(s): 05/23/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Tetrahydrofuran	47.782	50.000	LINR	4.4360	
allyl chloride	102.14	100.00	AVRG	-2.140	
Diethyl ether	51.081	50.000	LINR	-2.162	
Isobutyl alcohol	54.188	50.000	LINR	-8.376	
Methyl methacrylate	55.717	50.000	AVRG	-11.43	
tert-Butyl Alcohol	96.449	100.00	AVRG	3.5510	
Methyl Acetate	44.863	50.000	AVRG	10.274	
Cyclohexane	51.243	50.000	AVRG	-2.486	
Methylcyclohexane	52.567	50.000	AVRG	-5.134	
2,2,4-Trimethylpentane	52.738	50.000	AVRG	-5.476	
1,4-Dioxane	0.0000	50.000	AVRG	100.00	<-
Acetonitrile	0.0000	50.000	AVRG	100.00	<-
Methacrylonitrile	0.0000	50.000	AVRG	100.00	<-
isopropyl acetate	0.0000	50.000	AVRG	100.00	<-
n-amyl acetate	0.0000	50.000	AVRG	100.00	<-
chloroprene	50.782	50.000	AVRG	-1.564	
Toluene-d8	47.499	50.000	AVRG	5.0020	
4-Bromofluorobenzene	47.860	50.000	AVRG	4.2800	
Dibromofluoromethane (S)	50.759	50.000	AVRG	-1.518	

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a00bfb.d

Date : 13-JUN-2011 11:38

Client ID: bfb050

Instrument: 50MSV4.i

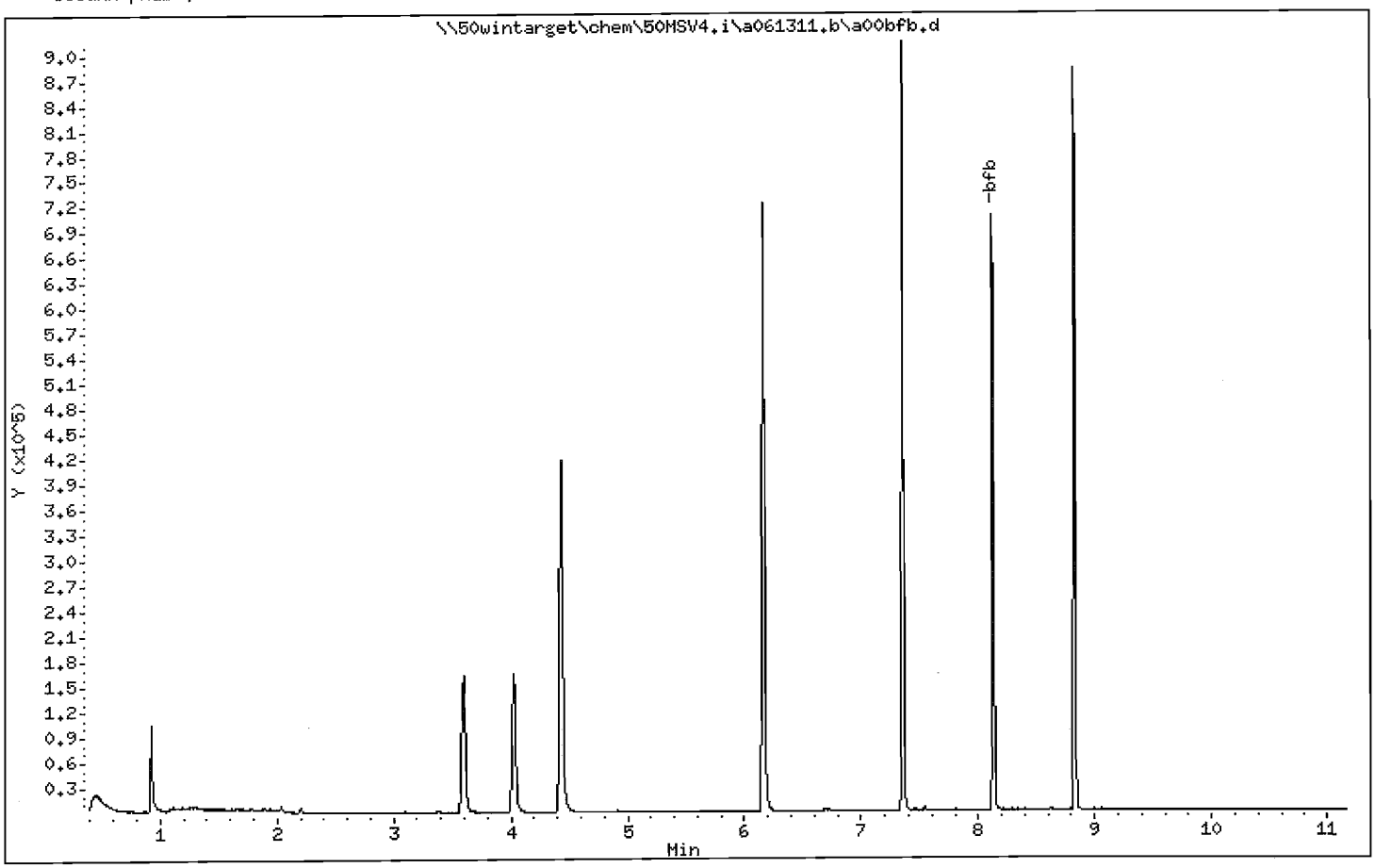
Sample Info: bfb

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a00bfb.d

Date : 13-JUN-2011 11:38

Client ID: bfb050

Instrument: 50MSV4.i

Sample Info: bfb

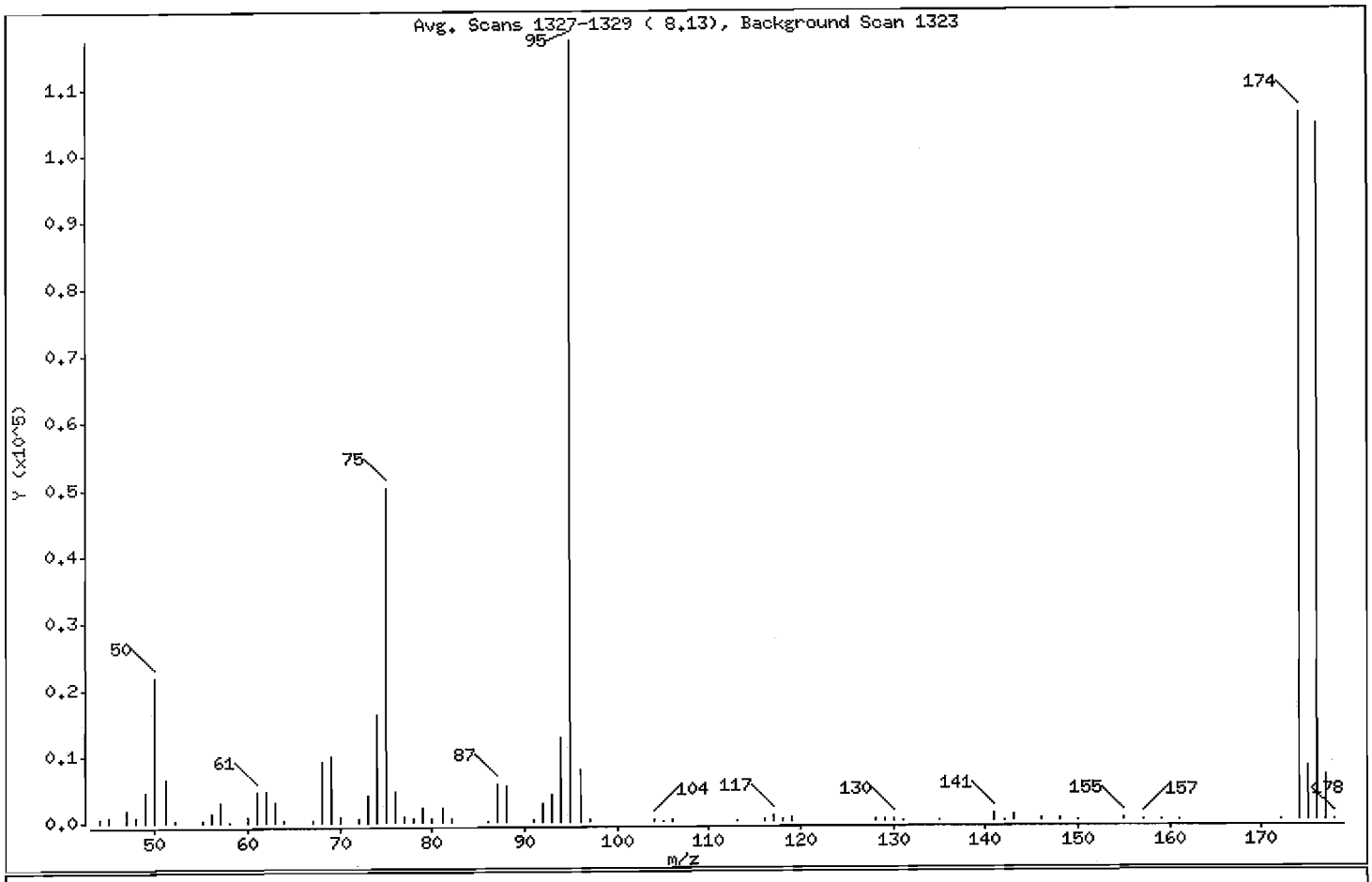
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.67
75	30.00 - 60.00% of mass 95	42.72
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	90.39
175	5.00 - 9.00% of mass 174	6.95 (7.69)
176	95.00 - 101.00% of mass 174	88.96 (98.42)
177	5.00 - 9.00% of mass 176	5.78 (6.49)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a00bfb.d

Date : 13-JUN-2011 11:38

Client ID: bfb050

Instrument: 50MSV4.i

Sample Info: bfb

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1327-1329 (8.13), Background Scan 1323
Location of Maximum: 95.00
Number of points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
44.00	516	68.00	9217	92.00	2731	135.00	67
45.00	928	69.00	9891	93.00	4116	141.00	958
47.00	2000	70.00	727	94.00	12599	142.00	51
48.00	726	72.00	565	95.00	117296	143.00	846
49.00	4582	73.00	4011	96.00	7786	146.00	191
50.00	21896	74.00	16128	97.00	235	148.00	320
51.00	6539	75.00	50104	104.00	399	150.00	114
52.00	332	76.00	4539	105.00	89	155.00	357
55.00	234	77.00	745	106.00	391	157.00	121
56.00	1482	78.00	522	113.00	67	159.00	121
57.00	2868	79.00	2201	116.00	312	161.00	102
58.00	60	80.00	502	117.00	730	172.00	132
60.00	931	81.00	2209	118.00	299	174.00	106024
61.00	4572	82.00	436	119.00	508	175.00	8150
62.00	4494	86.00	52	128.00	317	176.00	104344
63.00	3049	87.00	5700	129.00	142	177.00	6777
64.00	319	88.00	5393	130.00	356	178.00	109
67.00	327	91.00	294	131.00	52		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a061311.b\a01ccv.d
Lab Smp Id: ccv 34d-402/399 Client Smp ID: ccv
Inj Date : 13-JUN-2011 12:12
Operator : grm Inst ID: 50MSV4.i
Smp Info : ccv 34d-402/399
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Meth Date : 14-Jun-2011 10:09 50MSV4.i Quant Type: ISTD
Cal Date : 23-MAY-2011 16:32 Cal File: a08.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.228)	128048	50.0000	46.6
2 Chloromethane	50	1.092	1.092	(0.247)	113335	50.0000	41.8
3 Vinyl Chloride	62	1.144	1.144	(0.259)	99750	50.0000	49.6
4 Bromomethane	94	1.296	1.296	(0.294)	33007	50.0000	43.2
5 Chloroethane	64	1.348	1.348	(0.305)	41384	50.0000	41.4
6 Trichlorofluoromethane	101	1.471	1.471	(0.333)	122721	50.0000	54.9
7 1,2-dichlorotrifluoroethane	67	1.605	1.605	(0.364)	85767	50.0000	56.0
8 Diethyl ether	74	1.616	1.616	(0.366)	35611	50.0000	51.1
18 tert-Butyl Alcohol	59	2.100	2.100	(0.476)	17418	100.000	96.4
9 Acrolein	56	1.692	1.692	(0.383)	226172	1000.00	1250
10 1,1,2trichlorotrifluoroethane	101	1.739	1.739	(0.394)	75077	50.0000	59.2
11 1,1-Dichloroethene	96	1.744	1.744	(0.395)	68672	50.0000	54.4
12 Acetone	43	1.774	1.774	(0.402)	100425	250.000	267
13 Iodomethane	142	1.844	1.844	(0.418)	180126	100.000	92.0
14 Carbon Disulfide	76	1.884	1.884	(0.427)	363418	100.000	108
16 Methyl Acetate	43	1.960	1.960	(0.444)	55746	50.0000	44.9
15 allyl chloride	41	1.954	1.954	(0.443)	211450	100.000	102
17 Methylene Chloride	84	2.024	2.024	(0.459)	72479	50.0000	51.4
19 Acrylonitrile	53	2.193	2.193	(0.497)	860568	1000.00	1230
20 Methyl-tert-butyl ether	73	2.211	2.211	(0.501)	514177	100.000	102
21 1,2-Dichloroethene (trans)	96	2.211	2.211	(0.501)	103764	50.0000	52.4
22 n-Hexane	57	2.397	2.397	(0.543)	144684	50.0000	55.4
147 chloroprene	53	2.595	2.595	(0.588)	186428	50.0000	50.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 1,1-Dichloroethane	63	2.525	2.525	(0.572)	204949	50.0000	51.2
	24 Vinyl Acetate	43	2.403	2.403	(0.544)	91870	200.000	217
	26 1,2-Dichloroethene (cis)	96	3.038	3.038	(0.688)	112860	50.0000	49.2
	27 2,2-Dichloropropane	77	3.038	3.038	(0.688)	123001	50.0000	57.3
	28 2-Butanone	43	3.068	3.068	(0.695)	261156	250.000	228
	30 Bromochloromethane	49	3.289	3.289	(0.745)	97334	50.0000	48.0
	31 Tetrahydrofuran	42	3.353	3.353	(0.760)	36697	50.0000	47.8
	32 Chloroform	83	3.382	3.382	(0.766)	175962	50.0000	50.0
$	33 Dibromofluoromethane (S)	113	3.569	3.569	(0.809)	106250	50.0000	50.8
	34 1,1,1-Trichloroethane	97	3.598	3.598	(0.815)	145447	50.0000	54.5
	35 Cyclohexane	56	3.656	3.656	(0.828)	198535	50.0000	51.2
	145 isopropyl acetate	61	1.144	1.144	(0.259)	8077	50.0000	
	36 Carbon Tetrachloride	117	3.796	3.796	(0.860)	122958	50.0000	58.9
	37 1,1-Dichloropropene	75	3.802	3.802	(0.861)	140480	50.0000	53.5
	141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.946)	266224	50.0000	52.7
	39 Benzene	78	4.064	4.064	(0.921)	410442	50.0000	49.1
	40 1,2-Dichloroethane	62	4.099	4.099	(0.929)	134921	50.0000	48.6
	38 Isobutyl alcohol	43	4.175	4.175	(0.946)	47630	50.0000	54.2
*	41 Fluorobenzene	96	4.414	4.414	(1.000)	412397	50.0000	
	42 Trichloroethene	95	4.839	4.839	(1.096)	112620	50.0000	51.6
	43 Methylcyclohexane	55	5.049	5.049	(1.144)	136709	50.0000	52.6
	44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	118007	50.0000	52.2
	45 Dibromomethane	93	5.224	5.224	(1.184)	63943	50.0000	51.1
	46 Methyl methacrylate	69	5.271	5.271	(1.194)	65173	50.0000	55.7
	47 Bromodichloromethane	83	5.405	5.405	(1.224)	121592	50.0000	54.3
	48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	147109	100.000	103
	49 cis-1,3-Dichloropropene	75	5.889	5.889	(0.802)	150723	50.0000	53.9
	50 4-Methyl-2-Pentanone	43	6.069	6.069	(0.826)	503855	250.000	241
$	51 Toluene-d8	98	6.151	6.151	(0.837)	387282	50.0000	47.5
	52 Toluene	91	6.221	6.221	(0.847)	425040	50.0000	46.4
	53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	127923	50.0000	55.3
	54 Ethyl Methacrylate	69	6.571	6.571	(0.894)	123022	50.0000	56.4
	55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	76748	50.0000	49.3
	56 Tetrachloroethene	166	6.716	6.716	(0.914)	124099	50.0000	47.1
	57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	145528	50.0000	48.3
	58 2-Hexanone	43	6.845	6.845	(0.932)	349839	250.000	251
	59 Dibromochloromethane	129	6.926	6.926	(0.943)	102706	50.0000	57.1
	60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	95475	50.0000	53.0
*	61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	315826	50.0000	
	62 Chlorobenzene	112	7.369	7.369	(1.003)	294973	50.0000	49.8
	63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	96539	50.0000	55.4
	64 Ethylbenzene	106	7.451	7.451	(1.014)	148819	50.0000	51.7
	65 m&p-Xylene	106	7.532	7.532	(1.025)	349953	100.000	99.6
	67 o-Xylene	106	7.795	7.795	(1.061)	174435	50.0000	50.8
	68 Styrene	104	7.800	7.800	(1.062)	293823	50.0000	53.1
	69 Bromoform	173	7.917	7.917	(0.898)	64122	50.0000	49.2
	70 Isopropylbenzene	105	8.028	8.028	(1.093)	408355	50.0000	50.3
$	72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	139202	50.0000	47.9
	74 Bromobenzene	77	8.208	8.208	(1.117)	155150	50.0000	49.2
	73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.932)	115397	50.0000	50.6
	75 1,2,3-Trichloropropane	75	8.243	8.243	(0.935)	123752	50.0000	53.1
	71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	30746	50.0000	45.6
	76 n-Propylbenzene	91	8.284	8.284	(0.939)	461864	50.0000	50.5
	77 2-Chlorotoluene	91	8.331	8.331	(0.944)	276900	50.0000	49.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.951)	305066	50.0000	51.4
79 4-Chlorotoluene	126	8.401	8.401	(0.952)	101018	50.0000	50.9
80 tert-Butylbenzene	119	8.587	8.587	(0.974)	342529	50.0000	55.6
81 1,2,4-Trimethylbenzene	105	8.616	8.616	(0.977)	319671	50.0000	51.4
82 sec-Butylbenzene	105	8.716	8.716	(0.988)	354371	50.0000	52.3
83 1,3-Dichlorobenzene	146	8.780	8.780	(0.995)	192670	50.0000	52.5
84 p-Isopropyltoluene	119	8.803	8.803	(0.998)	309378	50.0000	54.1
* 85 1,4-Dichlorobenzene-d4	152	8.820	8.820	(1.000)	159099	50.0000	
86 1,4-Dichlorobenzene	146	8.832	8.832	(1.001)	191883	50.0000	50.9
87 n-Butylbenzene	91	9.042	9.042	(1.025)	241301	50.0000	50.4
88 1,2-Dichlorobenzene	146	9.054	9.054	(1.026)	180364	50.0000	51.0
89 1,2-Dibromo-3-chloropropane	155	9.514	9.514	(1.079)	14911	50.0000	42.3
90 1,2,4-Trichlorobenzene	180	10.004	10.004	(1.134)	87425	50.0000	45.4
91 Hexachlorobutadiene	225	10.103	10.103	(1.145)	39470	50.0000	49.0
92 Naphthalene	128	10.155	10.155	(1.151)	216300	50.0000	41.2
93 1,2,3-Trichlorobenzene	180	10.301	10.301	(1.168)	73047	50.0000	45.3
94 2,methyl-naphthalene	142	10.855	10.855	(1.231)	7251	50.0000	7.33

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a01ccv.d
Lab Smp Id: ccv 34d-402/399
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info:

Calibration Date: 14-JUN-2011
Calibration Time: 00:28
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	409196	204598	818392	412397	0.78
61 Chlorobenzene-d5	303876	151938	607752	315826	3.93
85 1,4-Dichlorobenze	150465	75233	300930	159099	5.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.81	8.31	9.31	8.82	0.07

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.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV4.i Injection Date: 13-JUN-2011 12:12
Lab File ID: a01ccv.d Init. Cal. Date(s): 23-MAY-2011 23-MAY-2011
Analysis Type: WATER Init. Cal. Times: 12:38 16:32
Lab Sample ID: ccv 34d-402/399 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.33343	0.31050	0.31050	0.100	-6.87683	20.00000	Averaged	
2 Chloromethane	0.32837	0.27482	0.27482	0.100	-16.30817	20.00000	Averaged	
3 Vinyl Chloride	0.24392	0.24188	0.24188	0.100	-0.83739	20.00000	Averaged	
4 Bromomethane	50.00000	43.21782	0.08004	0.100	-13.56436	0.000e+000	Linear	
5 Chloroethane	0.12113	0.10035	0.10035	0.100	-17.15212	20.00000	Averaged	
6 Trichlorofluoromethane	0.27100	0.29758	0.29758	0.100	9.80623	20.00000	Averaged	
7 1,2-dichlorotrifluoroethane	0.18552	0.20797	0.20797	0.100	12.10009	20.00000	Averaged	
8 Diethyl ether	50.00000	51.08146	0.08635	0.100	2.16293	0.000e+000	Linear	
18 tert-Butyl Alcohol	0.02190	0.02112	0.02112	0.100	-3.55091	20.00000	Averaged	
9 Acrolein	0.02190	0.02742	0.02742	0.100	25.18517	20.00000	Averaged	<-
10 1,1,2trichlorotrifluoroetha	0.15383	0.18205	0.18205	0.100	18.34773	20.00000	Averaged	
11 1,1-Dichloroethene	0.15293	0.16652	0.16652	0.100	8.88318	20.00000	Averaged	
12 Acetone	250	267	0.04870	0.100	6.66392	0.000e+000	Linear	
143 Acetonitrile	0.48467	++++	++++	0.100	++++	20.00000	Averaged	<-
13 Iodomethane	100	91.97593	0.21839	0.100	-8.02407	0.000e+000	Linear	
14 Carbon Disulfide	0.40733	0.44062	0.44062	0.100	8.17101	20.00000	Averaged	
16 Methyl Acetate	0.15065	0.13518	0.13518	0.100	-10.27378	20.00000	Averaged	
15 allyl chloride	0.25098	0.25637	0.25637	0.100	2.14494	20.00000	Averaged	
17 Methylene Chloride	50.00000	51.42211	0.17575	0.100	2.84421	0.000e+000	Linear	
19 Acrylonitrile	1000	1232	0.10434	0.100	23.18226	0.000e+000	Linear	
20 Methyl-tert-butyl ether	0.61109	0.62340	0.62340	0.100	2.01476	20.00000	Averaged	
21 1,2-Dichloroethene (trans)	0.23999	0.25161	0.25161	0.100	4.84465	20.00000	Averaged	
22 n-Hexane	0.31646	0.35084	0.35084	0.100	10.86392	20.00000	Averaged	
147 chloroprene	0.44509	0.45206	0.45206	0.100	1.56489	20.00000	Averaged	
23 1,1-Dichloroethane	0.48520	0.49697	0.49697	0.100	2.42609	20.00000	Averaged	
24 Vinyl Acetate	0.05141	0.05569	0.05569	0.100	8.33753	20.00000	Averaged	
26 1,2-Dichloroethene (cis)	0.27779	0.27367	0.27367	0.100	-1.48545	20.00000	Averaged	
27 2,2-Dichloropropane	0.26020	0.29826	0.29826	0.100	14.62880	20.00000	Averaged	
28 2-Butanone	0.13900	0.12665	0.12665	0.100	-8.88472	20.00000	Averaged	
144 Methacrylonitrile	0.16349	++++	++++	0.100	++++	20.00000	Averaged	<-
30 Bromochloromethane	0.24584	0.23602	0.23602	0.100	-3.99565	20.00000	Averaged	
31 Tetrahydrofuran	50.00000	47.78172	0.08898	0.100	-4.43656	0.000e+000	Linear	
32 Chloroform	0.42617	0.42668	0.42668	0.100	0.11922	20.00000	Averaged	
$ 33 Dibromofluoromethane (S)	0.25379	0.25764	0.25764	0.100	1.51893	20.00000	Averaged	
34 1,1,1-Trichloroethane	0.32369	0.35269	0.35269	0.100	8.95754	20.00000	Averaged	
35 Cyclohexane	0.46974	0.48142	0.48142	0.100	2.48595	20.00000	Averaged	
145 isopropyl acetate	++++	0.01959	0.01959	0.100	++++	20.00000	Averaged	<-
36 Carbon Tetrachloride	0.25313	0.29815	0.29815	0.100	17.78805	20.00000	Averaged	
37 1,1-Dichloropropene	0.31852	0.34064	0.34064	0.100	6.94453	20.00000	Averaged	
141 2,2,4-Trimethylpentane	0.61204	0.64555	0.64555	0.100	5.47533	20.00000	Averaged	
39 Benzene	1.01254	0.99526	0.99526	0.100	-1.70627	20.00000	Averaged	
40 1,2-Dichloroethane	0.33653	0.32716	0.32716	0.100	-2.78398	20.00000	Averaged	

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV4.i Injection Date: 13-JUN-2011 12:12
Lab File ID: a01ccv.d Init. Cal. Date(s): 23-MAY-2011 23-MAY-2011
Analysis Type: WATER Init. Cal. Times: 12:38 16:32
Lab Sample ID: ccv 34d-402/399 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 Isobutyl alcohol	50.00000	54.18786	0.11550	0.100	8.37572	0.000e+000	Linear	
42 Trichloroethene	0.26432	0.27309	0.27309	0.100	3.31585	20.00000	Averaged	
43 Methylcyclohexane	0.31531	0.33150	0.33150	0.100	5.13459	20.00000	Averaged	
142 1,4-Dioxane	++++	++++	++++	0.100	++++	20.00000	Averaged	<-
44 1,2-Dichloropropane	0.27381	0.28615	0.28615	0.100	4.50618	20.00000	Averaged	
45 Dibromomethane	0.15159	0.15505	0.15505	0.100	2.28175	20.00000	Averaged	
46 Methyl methacrylate	0.14182	0.15803	0.15803	0.100	11.43307	20.00000	Averaged	
47 Bromodichloromethane	0.27140	0.29484	0.29484	0.100	8.63846	20.00000	Averaged	
48 2-Chloroethyl vinyl ether	0.22679	0.23290	0.23290	0.100	2.69356	20.00000	Averaged	
49 cis-1,3-Dichloropropene	0.44231	0.47723	0.47723	0.100	7.89598	20.00000	Averaged	
50 4-Methyl-2-Pentanone	0.33079	0.31907	0.31907	0.100	-3.54356	20.00000	Averaged	
$ 51 Toluene-d8	1.29081	1.22625	1.22625	0.100	-5.00164	20.00000	Averaged	
52 Toluene	1.44983	1.34580	1.34580	0.100	-7.17480	20.00000	Averaged	
53 trans-1,3-Dichloropropene	0.36622	0.40504	0.40504	0.100	10.60154	20.00000	Averaged	
54 Ethyl Methacrylate	0.34521	0.38952	0.38952	0.100	12.83541	20.00000	Averaged	
55 1,1,2-Trichloroethane	0.24624	0.24301	0.24301	0.100	-1.31156	20.00000	Averaged	
56 Tetrachloroethene	50.00000	47.14169	0.39293	0.100	-5.71662	0.000e+000	Linear	
57 1,3-Dichloropropane	0.47668	0.46079	0.46079	0.100	-3.33497	20.00000	Averaged	
58 2-Hexanone	0.22069	0.22154	0.22154	0.100	0.38330	20.00000	Averaged	
59 Dibromochloromethane	0.28476	0.32520	0.32520	0.100	14.19882	20.00000	Averaged	
60 1,2-Dibromoethane	0.28490	0.30230	0.30230	0.100	6.10961	20.00000	Averaged	
62 Chlorobenzene	0.93663	0.93397	0.93397	0.300	-0.28398	20.00000	Averaged	
63 1,1,1,2-Tetrachloroethane	0.27563	0.30567	0.30567	0.100	10.89979	20.00000	Averaged	
64 Ethylbenzene	0.45567	0.47121	0.47121	0.100	3.40945	20.00000	Averaged	
65 m&p-Xylene	0.55627	0.55403	0.55403	0.100	-0.40303	20.00000	Averaged	
67 o-Xylene	0.54386	0.55231	0.55231	0.100	1.55412	20.00000	Averaged	
68 Styrene	0.87658	0.93033	0.93033	0.100	6.13252	20.00000	Averaged	
69 Bromoform	50.00000	49.15234	0.40303	0.100	-1.69532	0.000e+000	Linear	
70 Isopropylbenzene	1.28455	1.29297	1.29297	0.100	0.65554	20.00000	Averaged	
$ 72 4-Bromofluorobenzene	0.46046	0.44076	0.44076	0.100	-4.27959	20.00000	Averaged	
74 Bromobenzene	0.49915	0.49125	0.49125	0.100	-1.58327	20.00000	Averaged	
73 1,1,2,2-Tetrachloroethane	0.71682	0.72532	0.72532	0.300	1.18498	20.00000	Averaged	
75 1,2,3-Trichloropropane	0.73240	0.77783	0.77783	0.100	6.20294	20.00000	Averaged	
71 trans-1,4-Dichloro-2-butene	50.00000	45.61591	0.09735	0.100	-8.76818	0.000e+000	Linear	
76 n-Propylbenzene	2.87299	2.90300	2.90300	0.100	1.04458	20.00000	Averaged	
77 2-Chlorotoluene	1.75954	1.74043	1.74043	0.100	-1.08604	20.00000	Averaged	
78 1,3,5-Trimethylbenzene	1.86627	1.91746	1.91746	0.100	2.74292	20.00000	Averaged	
79 4-Chlorotoluene	0.62356	0.63494	0.63494	0.100	1.82484	20.00000	Averaged	
146 n-amyl acetate	++++	++++	++++	0.100	++++	20.00000	Averaged	<-
80 tert-Butylbenzene	1.93475	2.15293	2.15293	0.100	11.27676	20.00000	Averaged	
81 1,2,4-Trimethylbenzene	1.95264	2.00926	2.00926	0.100	2.89934	20.00000	Averaged	
82 sec-Butylbenzene	2.13043	2.22736	2.22736	0.100	4.55006	20.00000	Averaged	

Pace Analytical Services, Inc.

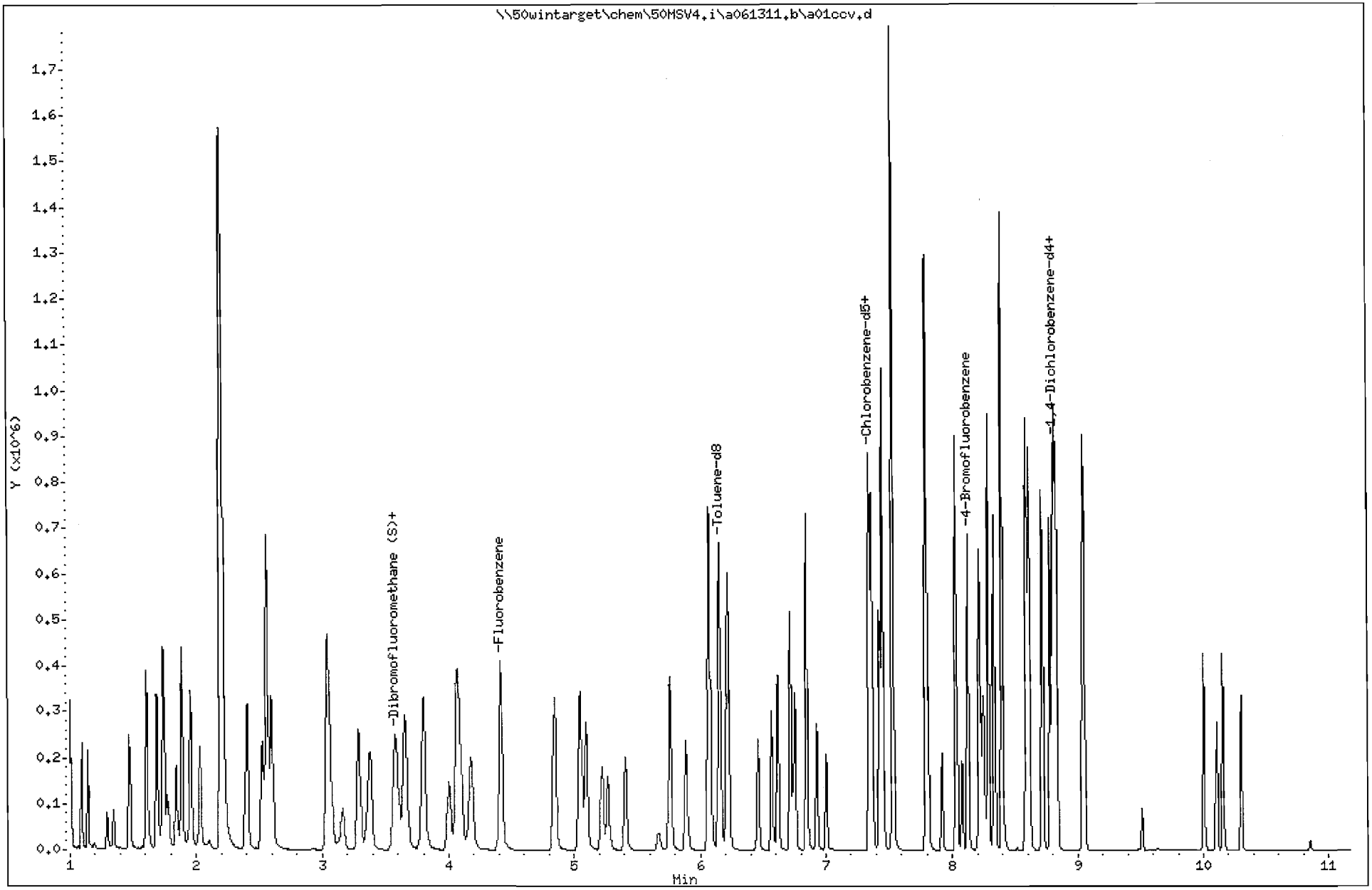
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV4.i Injection Date: 13-JUN-2011 12:12
Lab File ID: a01ccv.d Init. Cal. Date(s): 23-MAY-2011 23-MAY-2011
Analysis Type: WATER Init. Cal. Times: 12:38 16:32
Lab Sample ID: ccv 34d-402/399 Quant Type: ISTD
Method: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
83 1,3-Dichlorobenzene	1.15324	1.21101	1.21101	0.100	5.00938	20.00000	Averaged	
84 p-Isopropyltoluene	1.79793	1.94456	1.94456	0.100	8.15574	20.00000	Averaged	
86 1,4-Dichlorobenzene	1.18480	1.20606	1.20606	0.100	1.79463	20.00000	Averaged	
87 n-Butylbenzene	50.00000	50.43370	1.51667	0.100	0.86740	0.000e+000	Linear	
88 1,2-Dichlorobenzene	1.11142	1.13366	1.13366	0.100	2.00121	20.00000	Averaged	
89 1,2-Dibromo-3-chloropropane	50.00000	42.33813	0.09372	0.100	-15.32375	0.000e+000	Linear	
90 1,2,4-Trichlorobenzene	50.00000	45.38720	0.54950	0.100	-9.22559	0.000e+000	Linear	
91 Hexachlorobutadiene	50.00000	48.98401	0.24808	0.100	-2.03198	0.000e+000	Linear	
92 Naphthalene	50.00000	41.23875	1.35953	0.100	-17.52250	0.000e+000	Linear	
93 1,2,3-Trichlorobenzene	50.00000	45.31261	0.45913	0.100	-9.37478	0.000e+000	Linear	
94 2,methyl-naphthalene	0.31070	0.04558	0.04558	0.100	-85.33147	20.00000	Averaged	<-

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a01ccv.d
Date : 13-JUN-2011 12:12
Client ID: ccv
Sample Info: ccv 34d-402/399
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 4: Quality Control Data

** Laboratory Control Samples (LCS)*
** Matrix Spike and Spike Duplicate Samples (MS/MSD)*

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a061311.b\a02lcs.d
Lab Smp Id: 584722 Client Smp ID: lcs
Inj Date : 13-JUN-2011 12:45
Operator : grm Inst ID: 50MSV4.i
Smp Info : lcs 34d-403
Misc Info : 33252
Comment :
Method : \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Meth Date : 14-Jun-2011 10:09 50MSV4.i Quant Type: ISTD
Cal Date : 23-MAY-2011 16:32 Cal File: a08.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	1.004	1.004	(0.228)	132194	48.6137	48.6
2 Chloromethane	50	1.092	1.092	(0.247)	111885	41.7785	41.8
3 Vinyl Chloride	62	1.144	1.144	(0.259)	104490	52.5257	52.5
4 Bromomethane	94	1.301	1.296	(0.295)	48625	65.0000	65.0
5 Chloroethane	64	1.348	1.348	(0.305)	47465	48.0490	48.0
6 Trichlorofluoromethane	101	1.476	1.471	(0.335)	116149	52.5515	52.6
7 1,2-dichlorotrifluoroethane	67	1.610	1.605	(0.365)	89008	58.8270	58.8
8 Diethyl ether	74	1.616	1.616	(0.366)	36893	53.5925	53.6
18 tert-Butyl Alcohol	59	2.100	2.100	(0.476)	19451	108.926	109
9 Acrolein	56	1.692	1.692	(0.383)	88949	497.905	498
10 1,1,2trichlorotrifluoroethane	101	1.739	1.739	(0.394)	70916	56.5274	56.5
11 1,1-Dichloroethene	96	1.750	1.744	(0.397)	68446	54.8771	54.9
12 Acetone	43	1.774	1.774	(0.402)	104728	281.716	282
13 Iodomethane	142	1.844	1.844	(0.418)	197821	102.042	102
14 Carbon Disulfide	76	1.884	1.884	(0.427)	360369	108.478	108
16 Methyl Acetate	43	1.960	1.960	(0.444)	70756	57.5878	57.6
15 allyl chloride	41	1.954	1.954	(0.443)	203410	99.3741	99.4
17 Methylene Chloride	84	2.030	2.024	(0.460)	74585	53.5663	53.6
19 Acrylonitrile	53	2.193	2.193	(0.497)	864431	1253.29	1250
20 Methyl-tert-butyl ether	73	2.211	2.211	(0.501)	509633	102.259	102
21 1,2-Dichloroethene (trans)	96	2.211	2.211	(0.501)	108409	55.3894	55.4
22 n-Hexane	57	2.403	2.397	(0.544)	142832	55.3423	55.3
147 chloroprene	53	2.601	2.595	(0.589)	141546	38.9935	39.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
23 1,1-Dichloroethane	63	2.525	2.525	(0.572)	205243	51.8674	51.9
24 Vinyl Acetate	43	2.403	2.403	(0.544)	90229	215.215	215
26 1,2-Dichloroethene (cis)	96	3.044	3.038	(0.690)	121620	53.6818	53.7
27 2,2-Dichloropropane	77	3.044	3.038	(0.690)	128758	60.6766	60.7
28 2-Butanone	43	3.068	3.068	(0.695)	260606	229.883	230
30 Bromochloromethane	49	3.289	3.289	(0.745)	102273	51.0093	51.0
31 Tetrahydrofuran	42	3.353	3.353	(0.760)	36355	47.8828	47.9
32 Chloroform	83	3.382	3.382	(0.766)	180202	51.8466	51.8
$ 33 Dibromofluoromethane (S)	113	3.569	3.569	(0.809)	105062	50.7605	50.8
34 1,1,1-Trichloroethane	97	3.592	3.598	(0.814)	149282	56.5486	56.5
35 Cyclohexane	56	3.656	3.656	(0.828)	197107	51.4507	51.4
145 isopropyl acetate	61	1.144	1.144	(0.259)	8502		
36 Carbon Tetrachloride	117	3.802	3.796	(0.861)	125818	60.9465	60.9
37 1,1-Dichloropropene	75	3.802	3.802	(0.861)	137985	53.1175	53.1
141 2,2,4-Trimethylpentane	57	4.175	4.175	(0.946)	249260	49.9365	49.9
39 Benzene	78	4.070	4.064	(0.922)	433462	52.4912	52.5
40 1,2-Dichloroethane	62	4.099	4.099	(0.929)	138076	50.3081	50.3
38 Isobutyl alcohol	43	4.204	4.175	(0.952)	1017975	1166.19	1170(Q)
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	407778	50.0000	
42 Trichloroethene	95	4.845	4.839	(1.098)	115669	53.6575	53.6
43 Methylcyclohexane	55	5.049	5.049	(1.144)	131066	50.9683	51.0
142 1,4-Dioxane	88	5.271	5.282	(1.194)	24425		(Q)
44 1,2-Dichloropropane	63	5.096	5.096	(1.154)	120556	53.9864	54.0
45 Dibromomethane	93	5.218	5.224	(1.182)	66159	53.5126	53.5
46 Methyl methacrylate	69	5.271	5.271	(1.194)	256685	221.926	222
47 Bromodichloromethane	83	5.411	5.405	(1.226)	130297	58.8674	58.9
48 2-Chloroethyl vinyl ether	63	5.760	5.760	(0.784)	66320	47.5669	47.6
49 cis-1,3-Dichloropropene	75	5.889	5.889	(0.802)	152073	55.9248	55.9
50 4-Methyl-2-Pentanone	43	6.069	6.069	(0.826)	532099	261.646	262
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	386929	48.7581	48.8
52 Toluene	91	6.221	6.221	(0.847)	467082	52.4030	52.4
53 trans-1,3-Dichloropropene	75	6.460	6.460	(0.879)	125447	55.7185	55.7
54 Ethyl Methacrylate	69	6.571	6.571	(0.894)	456053	214.884	215
55 1,1,2-Trichloroethane	83	6.617	6.617	(0.901)	79538	52.5413	52.5
56 Tetrachloroethene	166	6.716	6.716	(0.914)	125435	49.0375	49.0
57 1,3-Dichloropropane	76	6.751	6.751	(0.919)	152349	51.9863	52.0
58 2-Hexanone	43	6.844	6.845	(0.932)	361268	266.268	266
59 Dibromochloromethane	129	6.926	6.926	(0.943)	102946	58.8033	58.8
60 1,2-Dibromoethane	107	7.002	7.002	(0.953)	97130	55.4556	55.4
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	307391	50.0000	
62 Chlorobenzene	112	7.363	7.369	(1.002)	301238	52.3141	52.3
63 1,1,1,2-Tetrachloroethane	131	7.427	7.427	(1.011)	100606	59.3716	59.4
64 Ethylbenzene	106	7.451	7.451	(1.014)	156390	55.8261	55.8
65 m&p-Xylene	106	7.532	7.532	(1.025)	369762	108.122	108
67 o-Xylene	106	7.789	7.795	(1.060)	179146	53.5794	53.6
68 Styrene	104	7.800	7.800	(1.062)	309284	57.3914	57.4
69 Bromoform	173	7.917	7.917	(0.898)	67528	53.7740	53.8
70 Isopropylbenzene	105	8.028	8.028	(1.093)	407008	51.5382	51.5
$ 72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	136761	48.3112	48.3
74 Bromobenzene	77	8.208	8.208	(1.117)	155608	50.7079	50.7
73 1,1,2,2-Tetrachloroethane	83	8.220	8.220	(0.933)	120418	55.0819	55.1
75 1,2,3-Trichloropropane	75	8.255	8.243	(0.937)	241924	108.308	108
71 trans-1,4-Dichloro-2-butene	53	8.255	8.255	(1.124)	132525	199.265	199(Q)
76 n-Propylbenzene	91	8.284	8.284	(0.940)	488097	55.7059	55.7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
77 2-Chlorotoluene	91	8.331	8.331	(0.945)	289472	53.9433	53.9
78 1,3,5-Trimethylbenzene	105	8.389	8.389	(0.952)	311769	54.7756	54.8
79 4-Chlorotoluene	126	8.395	8.401	(0.952)	101819	53.5402	53.5
80 tert-Butylbenzene	119	8.581	8.587	(0.974)	267886	45.3997	45.4
81 1,2,4-Trimethylbenzene	105	8.611	8.616	(0.977)	326767	54.8711	54.9
82 sec-Butylbenzene	105	8.715	8.716	(0.989)	370213	56.9789	57.0
83 1,3-Dichlorobenzene	146	8.780	8.780	(0.996)	196194	55.7822	55.8
84 p-Isopropyltoluene	119	8.797	8.803	(0.998)	312772	57.0406	57.0
* 85 1,4-Dichlorobenzene-d4	152	8.815	8.820	(1.000)	152490	50.0000	
86 1,4-Dichlorobenzene	146	8.832	8.832	(1.002)	198746	55.0026	55.0
87 n-Butylbenzene	91	9.036	9.042	(1.025)	249048	54.2514	54.2
88 1,2-Dichlorobenzene	146	9.048	9.054	(1.026)	184934	54.5592	54.6
89 1,2-Dibromo-3-chloropropane	155	9.508	9.514	(1.079)	17680	51.6104	51.6
90 1,2,4-Trichlorobenzene	180	9.998	10.004	(1.134)	89173	48.0573	48.0
91 Hexachlorobutadiene	225	10.097	10.103	(1.145)	41233	53.1854	53.2
92 Naphthalene	128	10.149	10.155	(1.151)	242855	47.5616	47.6
93 1,2,3-Trichlorobenzene	180	10.295	10.301	(1.168)	78794	50.2783	50.3
94 2,methyl-naphthalene	142	10.843	10.855	(1.230)	15903	16.7828	16.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a02lcs.d
Lab Smp Id: 584722
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33252

Calibration Date: 13-JUN-2011
Calibration Time: 12:12
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	412397	206199	824794	407778	-1.12
61 Chlorobenzene-d5	315826	157913	631652	307391	-2.67
85 1,4-Dichlorobenze	159099	79550	318198	152490	-4.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	-0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	-0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	-0.07

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.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 584722
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33252

Client SDG: a061311.b
Fraction: VOA
Client Smp ID: lcs
Operator: grm
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	48.6	97.23	19-200
2 Chloromethane	50.0	41.8	83.56	46-146
3 Vinyl Chloride	50.0	52.5	105.05	61-146
4 Bromomethane	50.0	65.0	130.00	23-197
5 Chloroethane	50.0	48.0	96.10	56-153
6 Trichlorofluoromet	50.0	52.6	105.10	56-159
7 1,2-dichlorotriflu	50.0	58.8	117.65	54-162
8 Diethyl ether	50.0	53.6	107.19	70-130
9 Acrolein	1000	498	49.79	10-200
10 1,1,2trichlorotrif	50.0	56.5	113.05	63-134
11 1,1-Dichloroethene	50.0	54.9	109.75	75-145
12 Acetone	250	282	112.69	10-200
13 Iodomethane	100	102	102.04	16-181
14 Carbon Disulfide	100	108	108.48	55-146
15 allyl chloride	100	99.4	99.37	70-130
16 Methyl Acetate	50.0	57.6	115.18	10-200
17 Methylene Chloride	50.0	53.6	107.13	61-138
19 Acrylonitrile	1000	1250	125.33	59-144
20 Methyl-tert-butyl	100	102	102.26	66-128
21 1,2-Dichloroethene	50.0	55.4	110.78	71-145
22 n-Hexane	50.0	55.3	110.68	67-142
23 1,1-Dichloroethane	50.0	51.9	103.73	70-127
24 Vinyl Acetate	200	215	107.61	27-119
27 2,2-Dichloropropan	50.0	60.7	121.35	45-138
26 1,2-Dichloroethene	50.0	53.7	107.36	79-129
28 2-Butanone	250	230	91.95	42-177
30 Bromochloromethane	50.0	51.0	102.02	58-153
32 Chloroform	50.0	51.8	103.69	73-122
34 1,1,1-Trichloroeth	50.0	56.5	113.10	69-126
35 Cyclohexane	50.0	51.4	102.90	66-133
37 1,1-Dichloropropen	50.0	53.1	106.24	75-126
36 Carbon Tetrachlori	50.0	60.9	121.89	65-125
39 Benzene	50.0	52.5	104.98	76-123
40 1,2-Dichloroethane	50.0	50.3	100.62	71-127
42 Trichloroethene	50.0	53.6	107.31	77-122
43 Methylcyclohexane	50.0	51.0	101.94	69-127
44 1,2-Dichloropropan	50.0	54.0	107.97	75-126
45 Dibromomethane	50.0	53.5	107.03	73-123
46 Methyl methacrylat	200	222	110.96	70-130
47 Bromodichlorometha	50.0	58.9	117.73	71-124

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
49 cis-1,3-Dichloropr	50.0	55.9	111.85	66-123
50 4-Methyl-2-Pentano	250	262	104.66	64-135
52 Toluene	50.0	52.4	104.81	74-124
53 trans-1,3-Dichloro	50.0	55.7	111.44	58-118
54 Ethyl Methacrylate	200	215	107.44	70-127
55 1,1,2-Trichloroeth	50.0	52.5	105.08	77-129
56 Tetrachloroethene	50.0	49.0	98.07	57-125
57 1,3-Dichloropropan	50.0	52.0	103.97	77-126
58 2-Hexanone	250	266	106.51	57-162
59 Dibromochlorometha	50.0	58.8	117.61	77-123
60 1,2-Dibromoethane	50.0	55.4	110.91	77-123
62 Chlorobenzene	50.0	52.3	104.63	78-120
63 1,1,1,2-Tetrachlor	50.0	59.4	118.74	69-122
64 Ethylbenzene	50.0	55.8	111.65	75-120
65 m&p-Xylene	100	108	108.12	72-126
67 o-Xylene	50.0	53.6	107.16	72-126
68 Styrene	50.0	57.4	114.78	75-125
69 Bromoform	50.0	53.8	107.55	64-116
70 Isopropylbenzene	50.0	51.5	103.08	73-123
74 Bromobenzene	50.0	50.7	101.42	67-130
73 1,1,2,2-Tetrachlor	50.0	55.1	110.16	68-134
75 1,2,3-Trichloropro	100	108	108.31	45-121
71 trans-1,4-Dichloro	200	199	99.63	50-121
76 n-Propylbenzene	50.0	55.7	111.41	71-132
77 2-Chlorotoluene	50.0	53.9	107.89	74-129
79 4-Chlorotoluene	50.0	53.5	107.08	70-125
78 1,3,5-Trimethylben	50.0	54.8	109.55	69-129
80 tert-Butylbenzene	50.0	45.4	90.80	49-114
81 1,2,4-Trimethylben	50.0	54.9	109.74	68-129
82 sec-Butylbenzene	50.0	57.0	113.96	69-130
83 1,3-Dichlorobenzen	50.0	55.8	111.56	76-123
84 p-Isopropyltoluene	50.0	57.0	114.08	71-126
86 1,4-Dichlorobenzen	50.0	55.0	110.01	77-121
87 n-Butylbenzene	50.0	54.2	108.50	69-130
88 1,2-Dichlorobenzen	50.0	54.6	109.12	74-123
89 1,2-Dibromo-3-chlo	50.0	51.6	103.22	54-138
90 1,2,4-Trichloroben	50.0	48.0	96.11	64-122
91 Hexachlorobutadien	50.0	53.2	106.37	64-131
92 Naphthalene	50.0	47.6	95.12	62-130
93 1,2,3-Trichloroben	50.0	50.3	100.56	63-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 33 Dibromofluorometha	50.0	50.8	101.52	80-123
$ 51 Toluene-d8	50.0	48.8	97.52	80-116
$ 72 4-Bromofluorobenze	50.0	48.3	96.62	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584722
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33252

Client SDG: a061311.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	48.6	
74-87-3	Chloromethane	41.8	
75-01-4	Vinyl Chloride	52.5	
74-83-9	Bromomethane	65.0	
75-00-3	Chloroethane	48.0	
75-69-4	Trichlorofluoromethane	52.6	
354-23-4	1,2-dichlorotrifluoroethane	58.8	
60-29-7	Diethyl ether	53.6	
75-65-0	tert-Butyl Alcohol	109	
107-02-8	Acrolein	498	
76-13-1	1,1,2trichlorotrifluoroethan	56.5	
75-35-4	1,1-Dichloroethene	54.9	
67-64-1	Acetone	282	
	Iodomethane	102	
75-15-0	Carbon Disulfide	108	
79-20-9	Methyl Acetate	57.6	
107-05-1	allyl chloride	99.4	
75-09-2	Methylene Chloride	53.6	
107-13-1	Acrylonitrile	1250	
1634-04-4	Methyl-tert-butyl ether	102	
156-60-5	1,2-Dichloroethene (trans)	55.4	
	n-Hexane	55.3	
126-99-8	chloroprene	39.0	
75-34-3	1,1-Dichloroethane	51.9	
108-05-4	Vinyl Acetate	215	
156-59-2	1,2-Dichloroethene (cis)	53.7	
594-20-7	2,2-Dichloropropane	60.7	
78-93-3	2-Butanone	230	
74-97-5	Bromochloromethane	51.0	
	Tetrahydrofuran	47.9	
67-66-3	Chloroform	51.8	
71-55-6	1,1,1-Trichloroethane	56.5	
110-82-7	Cyclohexane	51.4	
108-21-4	isopropyl acetate	0.000	
56-23-5	Carbon Tetrachloride	60.9	
563-58-6	1,1-Dichloropropene	53.1	
540-84-1	2,2,4-Trimethylpentane	49.9	
71-43-2	Benzene	52.5	
107-06-2	1,2-Dichloroethane	50.3	
78-83-1	Isobutyl alcohol	1170	
79-01-6	Trichloroethene	53.6	
108-87-2	Methylcyclohexane	51.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 584722
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33252

Client SDG: a061311.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
----------	1,4-Dioxane	0.000	
78-87-5	1,2-Dichloropropane	54.0	
74-95-3	Dibromomethane	53.5	
80-62-6	Methyl methacrylate	222	
75-27-4	Bromodichloromethane	58.9	
110-75-8	2-Chloroethyl vinyl ether	47.6	
10061-01-5	cis-1,3-Dichloropropene	55.9	
108-10-1	4-Methyl-2-Pentanone	262	
108-88-3	Toluene	52.4	
10061-02-6	trans-1,3-Dichloropropene	55.7	
----------	Ethyl Methacrylate	215	
79-00-5	1,1,2-Trichloroethane	52.5	
127-18-4	Tetrachloroethene	49.0	
142-28-9	1,3-Dichloropropane	52.0	
591-78-6	2-Hexanone	266	
124-48-1	Dibromochloromethane	58.8	
106-93-4	1,2-Dibromoethane	55.4	
108-90-7	Chlorobenzene	52.3	
630-20-6	1,1,1,2-Tetrachloroethane	59.4	
100-41-4	Ethylbenzene	55.8	
7816-60-0	m&p-Xylene	108	
95-47-6	o-Xylene	53.6	
100-42-5	Styrene	57.4	
75-25-2	Bromoform	53.8	
98-82-8	Isopropylbenzene	51.5	
108-86-1	Bromobenzene	50.7	
79-34-5	1,1,2,2-Tetrachloroethane	55.1	
96-18-4	1,2,3-Trichloropropane	108	
----------	trans-1,4-Dichloro-2-butene	199	
103-65-1	n-Propylbenzene	55.7	
95-49-8	2-Chlorotoluene	53.9	
108-67-8	1,3,5-Trimethylbenzene	54.8	
106-43-4	4-Chlorotoluene	53.5	
98-06-6	tert-Butylbenzene	45.4	
95-63-6	1,2,4-Trimethylbenzene	54.9	
135-98-8	sec-Butylbenzene	57.0	
541-73-1	1,3-Dichlorobenzene	55.8	
99-87-6	p-Isopropyltoluene	57.0	
106-46-7	1,4-Dichlorobenzene	55.0	
104-51-8	n-Butylbenzene	54.2	
95-50-1	1,2-Dichlorobenzene	54.6	
96-12-8	1,2-Dibromo-3-chloropropane	51.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

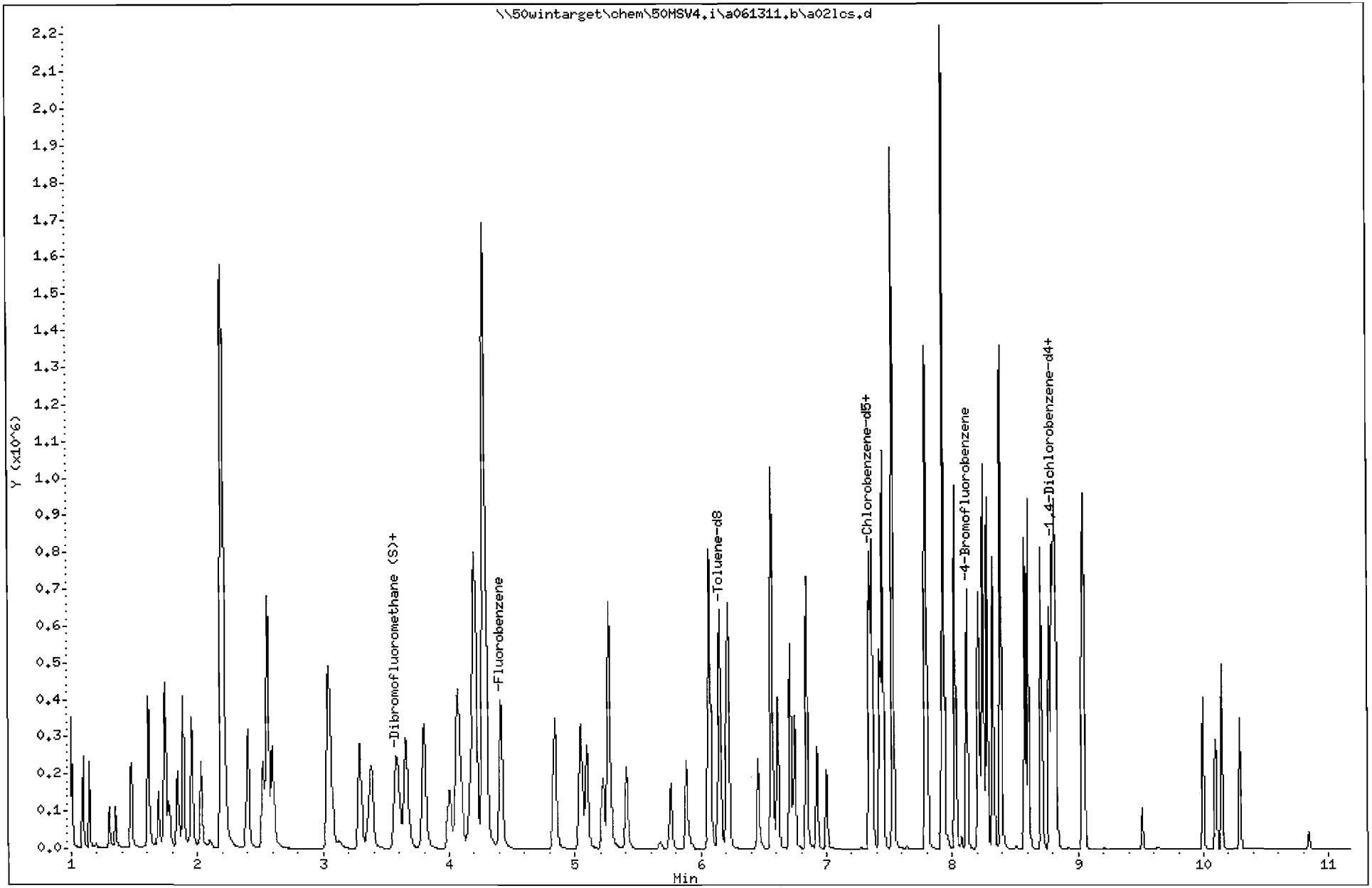
Client Name:
Lab Smp Id: 584722
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33252

Client SDG: a061311.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	48.0	
87-68-3	Hexachlorobutadiene	53.2	
91-20-3	Naphthalene	47.6	
87-61-6	1,2,3-Trichlorobenzene	50.3	
	2,methyl-naphthalene	16.8	
1868-53-7	Dibromofluoromethane (S)	50.8	
2037-26-5	Toluene-d8	48.8	
460-00-4	4-Bromofluorobenzene	48.3	

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a02lcs.d
Date : 13-JUN-2011 12:45
Client ID: lcs
Sample Info: lcs 34d-403
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a02lcs.d

Date : 13-JUN-2011 12:45

Client ID: lcs

Instrument: 50MSV4.i

Sample Info: lcs 34d-403

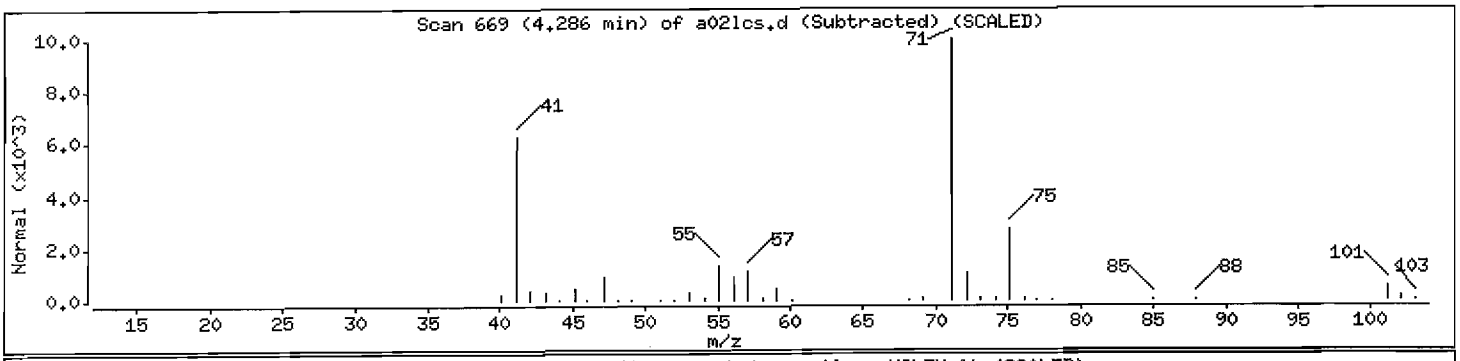
Purge Volume: 5.0

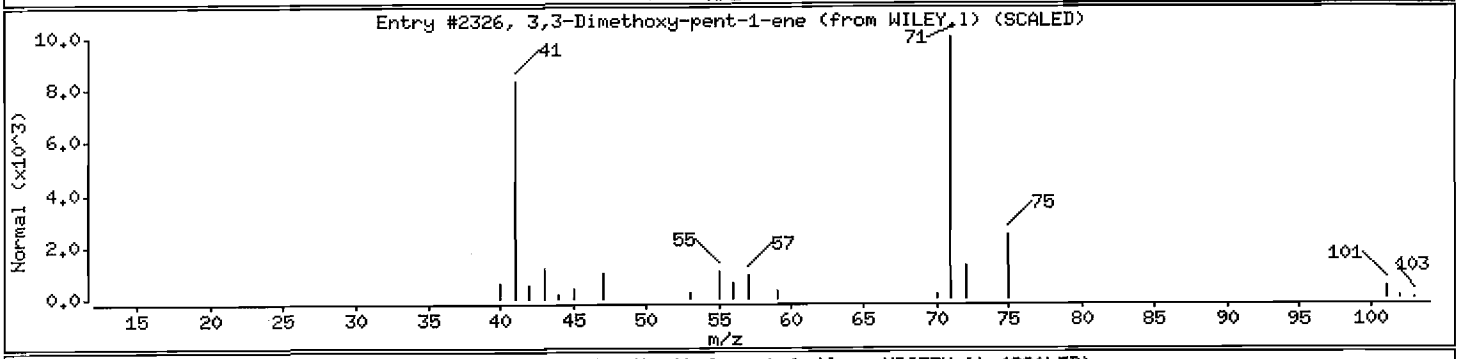
Operator: grm

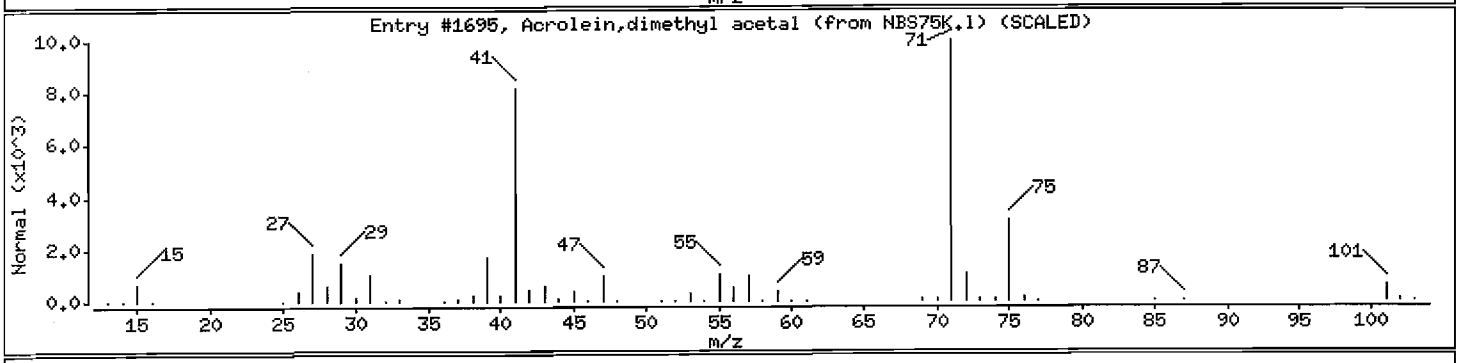
Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3,3-Dimethoxy-pent-1-ene	0-00-0	WILEY.l	2326	91	C5H10O2	102
Acrolein,dimethyl acetal	6044-68-4	NBS75K.l	1695	83	C5H10O2	102







Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 5: Method Blank Data

** Method Blanks*

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a061311.b\a03mb.d
Lab Smp Id: 584721 Client Smp ID: mb
Inj Date : 13-JUN-2011 13:19
Operator : grm Inst ID: 50MSV4.i
Smp Info : mb 34d-416
Misc Info : 33252
Comment :
Method : \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Meth Date : 14-Jun-2011 10:09 50MSV4.i Quant Type: ISTD
Cal Date : 23-MAY-2011 16:32 Cal File: a08.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
13 Iodomethane	142	1.849	1.844	(0.419)	3308	2.74523	2.74
$ 33 Dibromofluoromethane (S)	113	3.575	3.569	(0.810)	104495	51.4467	51.4
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	400167	50.0000	
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	382168	49.2166	49.2
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	300780	50.0000	
$ 72 4-Bromofluorobenzene	95	8.121	8.121	(1.106)	131178	47.3575	47.4
* 85 1,4-Dichlorobenzene-d4	152	8.814	8.820	(1.000)	140664	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a03mb.d
Lab Smp Id: 584721
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33252

Calibration Date: 13-JUN-2011
Calibration Time: 12:12
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	412397	206199	824794	400167	-2.97
61 Chlorobenzene-d5	315826	157913	631652	300780	-4.76
85 1,4-Dichlorobenze	159099	79550	318198	140664	-11.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	-0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	-0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.81	-0.07

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.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 584721
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33252

Client SDG: a061311.b
Fraction: VOA
Client Smp ID: mb
Operator: grm
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 33 Dibromofluorometha	50.0	51.4	102.89	80-123
$ 51 Toluene-d8	50.0	49.2	98.43	80-116
$ 72 4-Bromofluorobenze	50.0	47.4	94.72	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

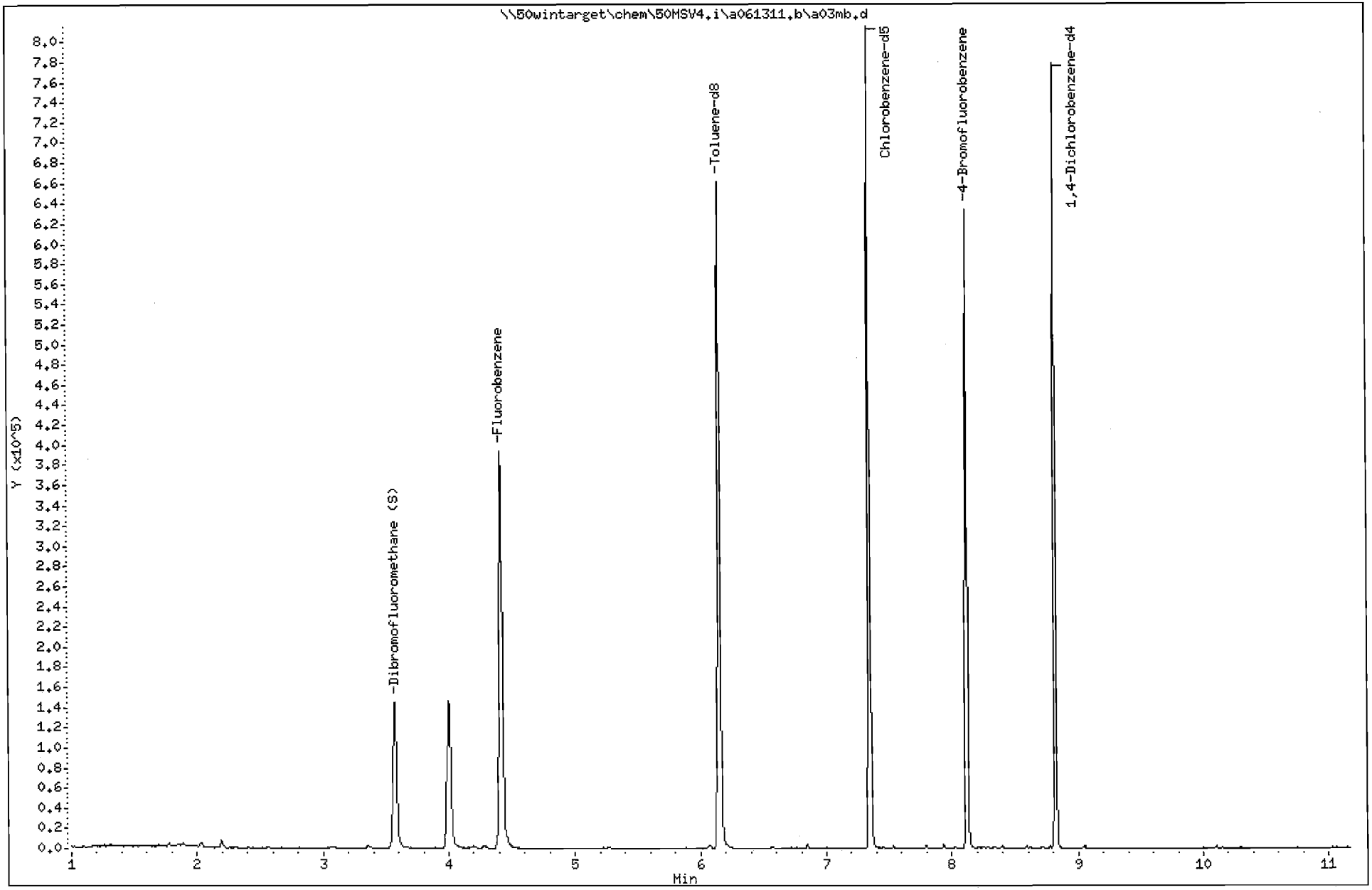
Client Name:
Lab Smp Id: 584721
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33252

Client SDG: a061311.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
	Iodomethane	2.74	
1868-53-7	Dibromofluoromethane (S)	51.4	
2037-26-5	Toluene-d8	49.2	
460-00-4	4-Bromofluorobenzene	47.4	

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a03mb.d
Date : 13-JUN-2011 13:19
Client ID: mb
Sample Info: mb 34d-416
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a03mb.d

Date : 13-JUN-2011 13:19

Client ID: mb

Instrument: 50MSV4.i

Sample Info: mb 34d-416

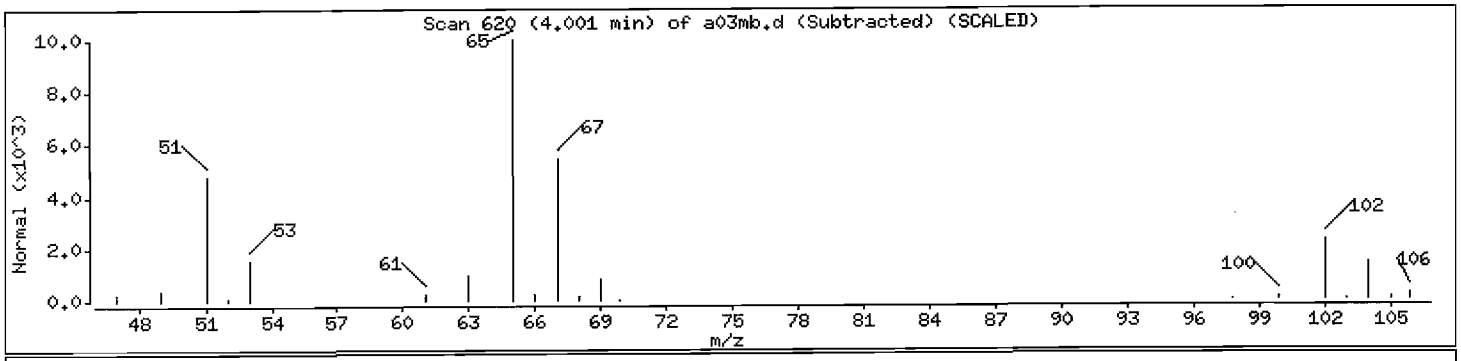
Purge Volume: 5.0

Operator: grm

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 6: Client Sample Data

**** Client Sample Raw Data***
**** Dilutions or Reruns of Client Samples***
(Sample data should be in numerical order by Lab Number)

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a061311.b\a12.d
Lab Smp Id: 5049649001 Client Smp ID: 5049649001
Inj Date : 13-JUN-2011 18:20
Operator : grm Inst ID: 50MSV4.i
Smp Info : 5049649001
Misc Info : 33253
Comment :
Method : \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Meth Date : 14-Jun-2011 10:09 50MSV4.i Quant Type: ISTD
Cal Date : 23-MAY-2011 16:32 Cal File: a08.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 33 Dibromofluoromethane (S)	113	3.569	3.569	(0.809)	101090	51.5125	51.5
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	386633	50.0000	
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	371957	49.2576	49.2
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	292500	50.0000	
$ 72 4-Bromofluorobenzene	95	8.127	8.121	(1.106)	129254	47.9838	48.0
* 85 1,4-Dichlorobenzene-d4	152	8.826	8.820	(1.000)	131414	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a12.d
Lab Smp Id: 5049649001
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33253

Calibration Date: 13-JUN-2011
Calibration Time: 12:12
Client Smp ID: 5049649001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	412397	206199	824794	386633	-6.25
61 Chlorobenzene-d5	315826	157913	631652	292500	-7.39
85 1,4-Dichlorobenze	159099	79550	318198	131414	-17.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	-0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	-0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.83	0.06

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049649001
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33253

Client SDG: a061311.b
Fraction: VOA
Client Smp ID: 5049649001
Operator: grm
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 33 Dibromofluorometha	50.0	51.5	103.03	80-123
$ 51 Toluene-d8	50.0	49.2	98.52	80-116
$ 72 4-Bromofluorobenze	50.0	48.0	95.97	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

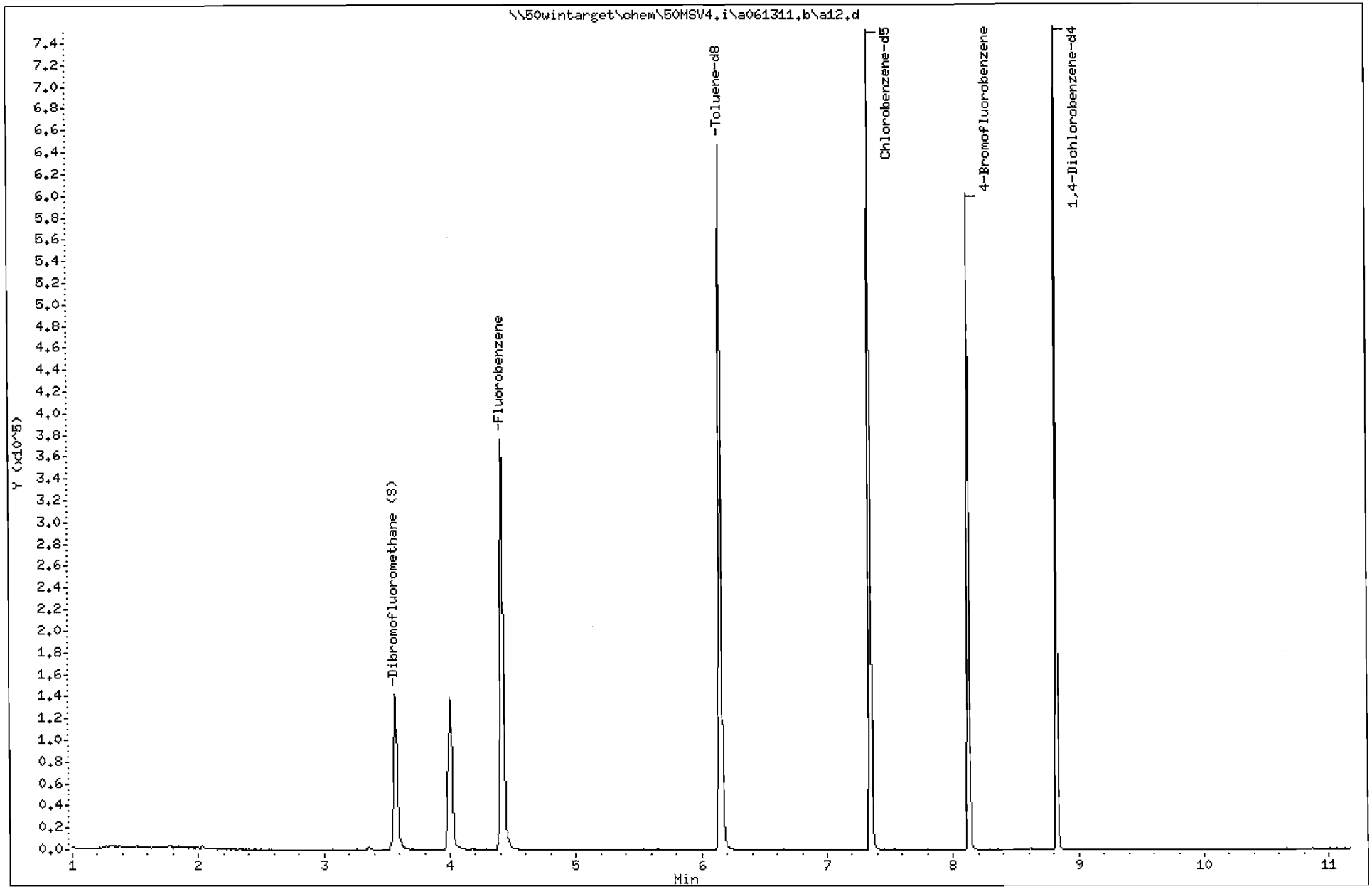
Client Name:
Lab Smp Id: 5049649001
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33253

Client SDG: a061311.b
Client Smp ID: 5049649001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	51.5	
2037-26-5	Toluene-d8	49.2	
460-00-4	4-Bromofluorobenzene	48.0	

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a12.d
Date : 13-JUN-2011 18:20
Client ID: 5049649001
Sample Info: 5049649001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a12.d

Date : 13-JUN-2011 18:20

Client ID: 5049649001

Instrument: 50MSV4.i

Sample Info: 5049649001

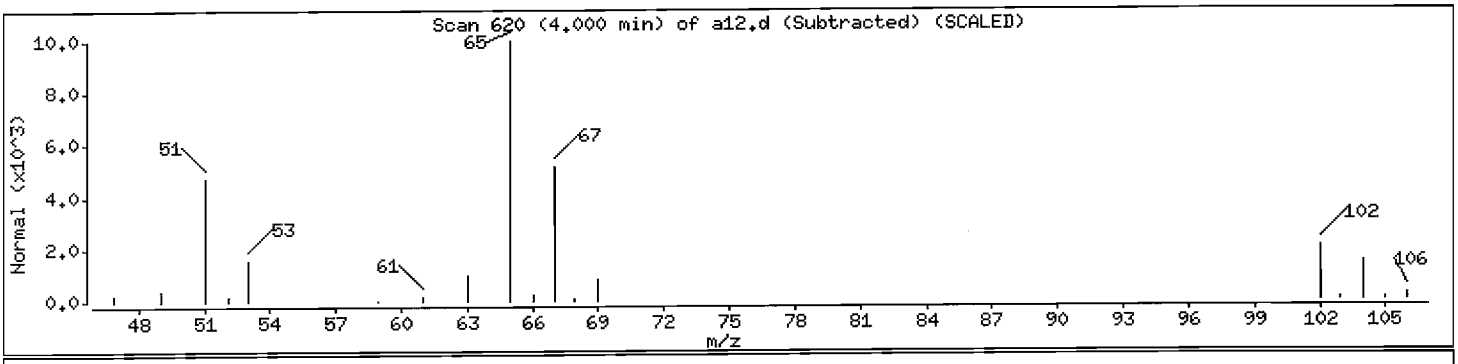
Purge Volume: 5.0

Operator: grm

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a061311.b\a13.d
Lab Smp Id: 5049649002 Client Smp ID: 5049649002
Inj Date : 13-JUN-2011 18:53
Operator : grm Inst ID: 50MSV4.i
Smp Info : 5049649002
Misc Info : 33253
Comment :
Method : \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Meth Date : 14-Jun-2011 10:09 50MSV4.i Quant Type: ISTD
Cal Date : 23-MAY-2011 16:32 Cal File: a08.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
17 Methylene Chloride	84	2.030	2.024	(0.460)	1749	0.08348	0.0835
32 Chloroform	83	3.382	3.382	(0.766)	5777	1.71579	1.72
$ 33 Dibromofluoromethane (S)	113	3.569	3.569	(0.809)	99199	49.4752	49.5
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	395024	50.0000	
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	376857	49.1477	49.1
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	297016	50.0000	
$ 72 4-Bromofluorobenzene	95	8.127	8.121	(1.106)	130114	47.5687	47.6
* 85 1,4-Dichlorobenzene-d4	152	8.826	8.820	(1.000)	132725	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a13.d
Lab Smp Id: 5049649002
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33253

Calibration Date: 13-JUN-2011
Calibration Time: 12:12
Client Smp ID: 5049649002
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	412397	206199	824794	395024	-4.21
61 Chlorobenzene-d5	315826	157913	631652	297016	-5.96
85 1,4-Dichlorobenze	159099	79550	318198	132725	-16.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.83	0.07

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.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049649002
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33253

Client SDG: a061311.b
Fraction: VOA
Client Smp ID: 5049649002
Operator: grm
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 33 Dibromofluorometha	50.0	49.5	98.95	80-123
$ 51 Toluene-d8	50.0	49.1	98.30	80-116
$ 72 4-Bromofluorobenze	50.0	47.6	95.14	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

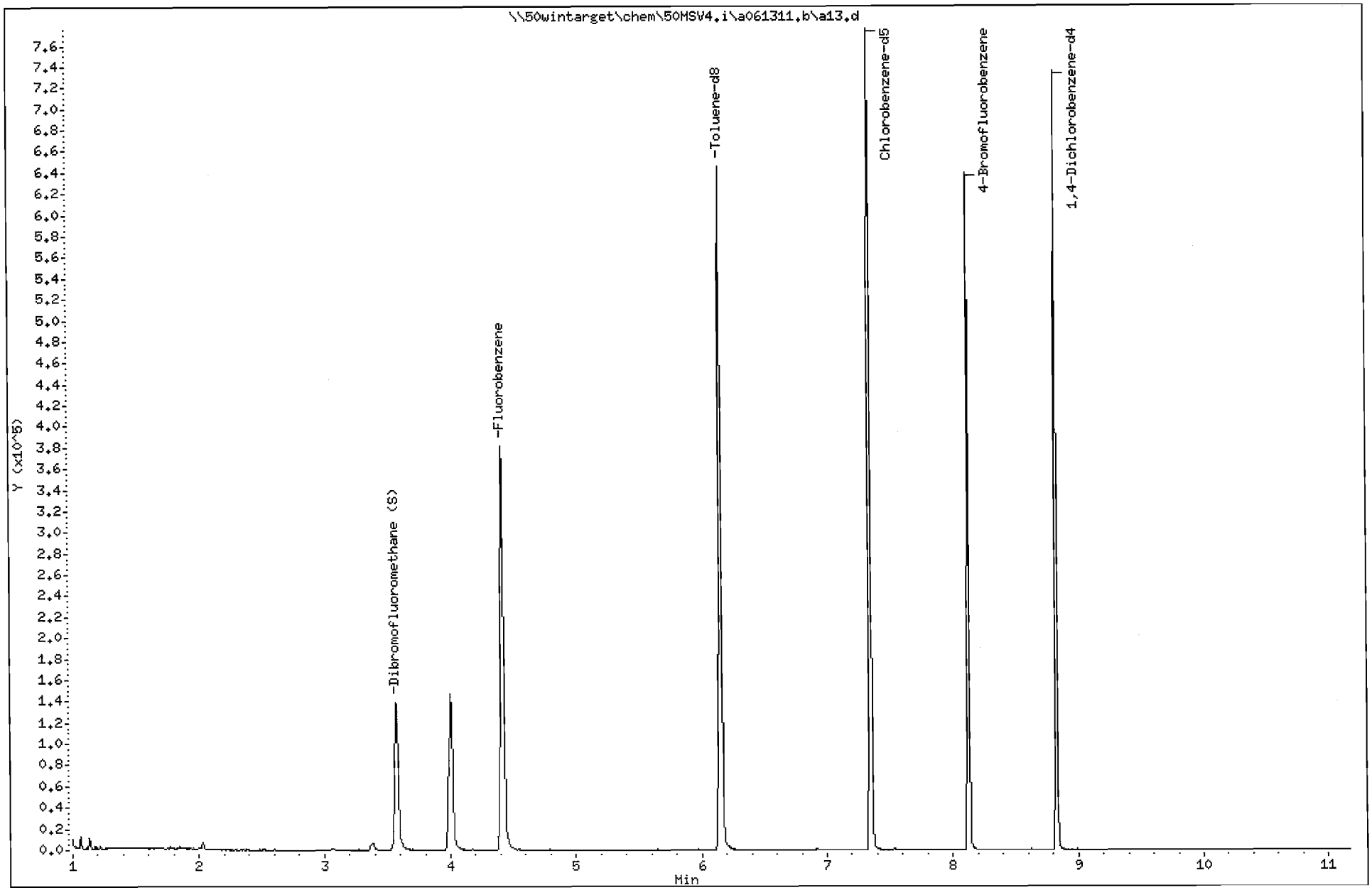
Client Name:
Lab Smp Id: 5049649002
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33253

Client SDG: a061311.b
Client Smp ID: 5049649002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-09-2	Methylene Chloride	0.0835	
67-66-3	Chloroform	1.72	
1868-53-7	Dibromofluoromethane (S)	49.5	
2037-26-5	Toluene-d8	49.1	
460-00-4	4-Bromofluorobenzene	47.6	

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a13.d
Date : 13-JUN-2011 18:53
Client ID: 5049649002
Sample Info: 5049649002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a13.d

Date : 13-JUN-2011 18:53

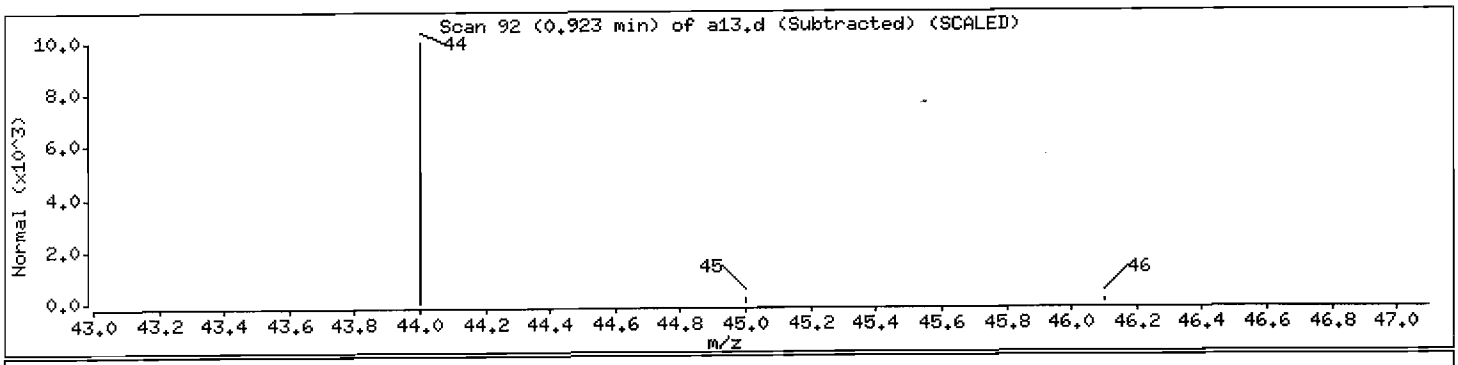
Client ID: 5049649002 Instrument: 50MSV4.i

Sample Info: 5049649002

Purge Volume: 5.0 Operator: grm

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a061311.b\a14.d
Lab Smp Id: 5049649003 Client Smp ID: 5049649003
Inj Date : 13-JUN-2011 19:27
Operator : grm Inst ID: 50MSV4.i
Smp Info : 5049649003
Misc Info : 33253
Comment :
Method : \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Meth Date : 14-Jun-2011 10:09 50MSV4.i Quant Type: ISTD
Cal Date : 23-MAY-2011 16:32 Cal File: a08.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
32 Chloroform	83	3.388	3.382	(0.767)	14154	4.25426	4.25
$ 33 Dibromofluoromethane (S)	113	3.575	3.569	(0.809)	100208	50.5785	50.6
* 41 Fluorobenzene	96	4.420	4.414	(1.000)	390337	50.0000	
$ 51 Toluene-d8	98	6.157	6.151	(0.838)	369442	48.6206	48.6
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	294329	50.0000	
$ 72 4-Bromofluorobenzene	95	8.127	8.121	(1.106)	128610	47.4481	47.4
* 85 1,4-Dichlorobenzene-d4	152	8.820	8.820	(1.000)	132695	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a14.d
Lab Smp Id: 5049649003
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33253

Calibration Date: 13-JUN-2011
Calibration Time: 12:12
Client Smp ID: 5049649003
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	412397	206199	824794	390337	-5.35
61 Chlorobenzene-d5	315826	157913	631652	294329	-6.81
85 1,4-Dichlorobenze	159099	79550	318198	132695	-16.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.42	0.13
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049649003
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33253

Client SDG: a061311.b
Fraction: VOA
Client Smp ID: 5049649003
Operator: grm
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 33 Dibromofluorometha	50.0	50.6	101.16	80-123
$ 51 Toluene-d8	50.0	48.6	97.24	80-116
$ 72 4-Bromofluorobenze	50.0	47.4	94.90	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5049649003
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33253

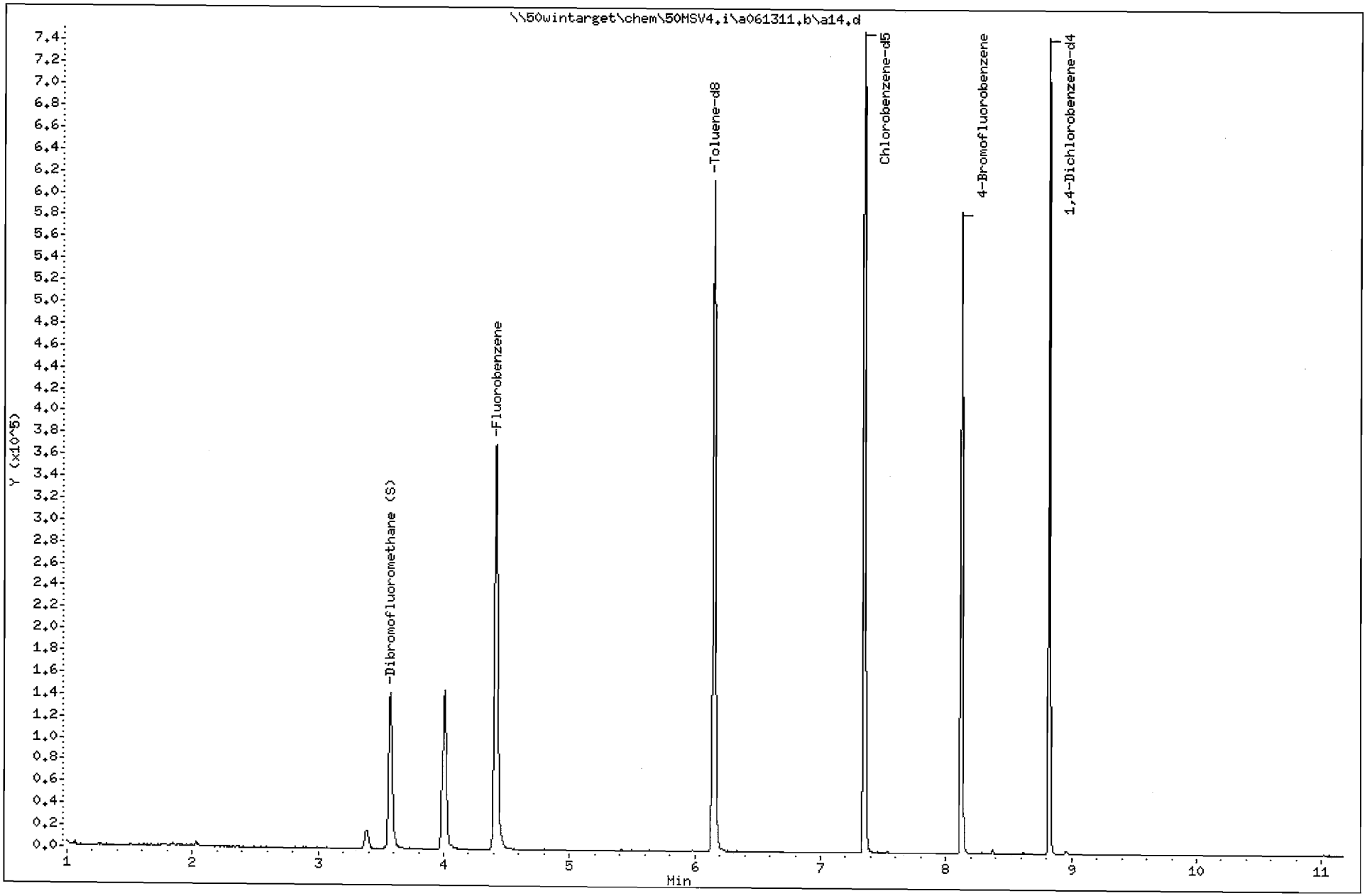
Client SDG: a061311.b
Client Smp ID: 5049649003
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
67-66-3	Chloroform	4.25	
1868-53-7	Dibromofluoromethane (S)	50.6	
2037-26-5	Toluene-d8	48.6	
460-00-4	4-Bromofluorobenzene	47.4	

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a14.d
Date : 13-JUN-2011 19:27
Client ID: 5049649003
Sample Info: 5049649003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i

Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a14.d

Date : 13-JUN-2011 19:27

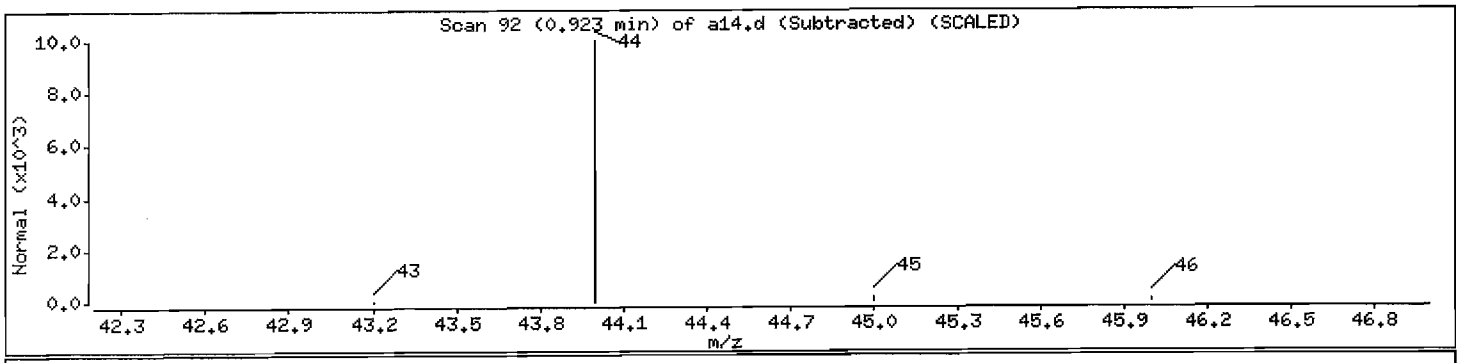
Client ID: 5049649003 Instrument: 50MSV4.i

Sample Info: 5049649003

Purge Volume: 5.0 Operator: grm

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV4.i\a061311.b\a15.d
Lab Smp Id: 5049649004 Client Smp ID: 5049649004
Inj Date : 13-JUN-2011 20:00
Operator : grm Inst ID: 50MSV4.i
Smp Info : 5049649004
Misc Info : 33253
Comment :
Method : \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Meth Date : 14-Jun-2011 10:09 50MSV4.i Quant Type: ISTD
Cal Date : 23-MAY-2011 16:32 Cal File: a08.d
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 33 Dibromofluoromethane (S)	113	3.575	3.569	(0.810)	97443	49.1822	49.2
* 41 Fluorobenzene	96	4.414	4.414	(1.000)	390343	50.0000	
$ 51 Toluene-d8	98	6.151	6.151	(0.837)	368904	49.1646	49.2
* 61 Chlorobenzene-d5	117	7.346	7.346	(1.000)	290648	50.0000	
$ 72 4-Bromofluorobenzene	95	8.127	8.121	(1.106)	126056	47.0948	47.1
* 85 1,4-Dichlorobenzene-d4	152	8.826	8.820	(1.000)	131892	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV4.i
Lab File ID: a15.d
Lab Smp Id: 5049649004
Analysis Type: VOA
Quant Type: ISTD
Operator: grm
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33253

Calibration Date: 13-JUN-2011
Calibration Time: 12:12
Client Smp ID: 5049649004
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	412397	206199	824794	390343	-5.35
61 Chlorobenzene-d5	315826	157913	631652	290648	-7.97
85 1,4-Dichlorobenze	159099	79550	318198	131892	-17.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
41 Fluorobenzene	4.41	3.91	4.91	4.41	0.00
61 Chlorobenzene-d5	7.35	6.85	7.85	7.35	0.00
85 1,4-Dichlorobenze	8.82	8.32	9.32	8.83	0.07

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.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5049649004
Level: LOW
Data Type: MS DATA
SpikeList File: 8260LCS-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV4.i\a061311.b\a8260_a_b.m
Misc Info: 33253

Client SDG: a061311.b
Fraction: VOA
Client Smp ID: 5049649004
Operator: grm
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 33 Dibromofluorometha	50.0	49.2	98.36	80-123
$ 51 Toluene-d8	50.0	49.2	98.33	80-116
$ 72 4-Bromofluorobenze	50.0	47.1	94.19	70-126

Pace Analytical Services, Inc.

TARGET COMPOUNDS

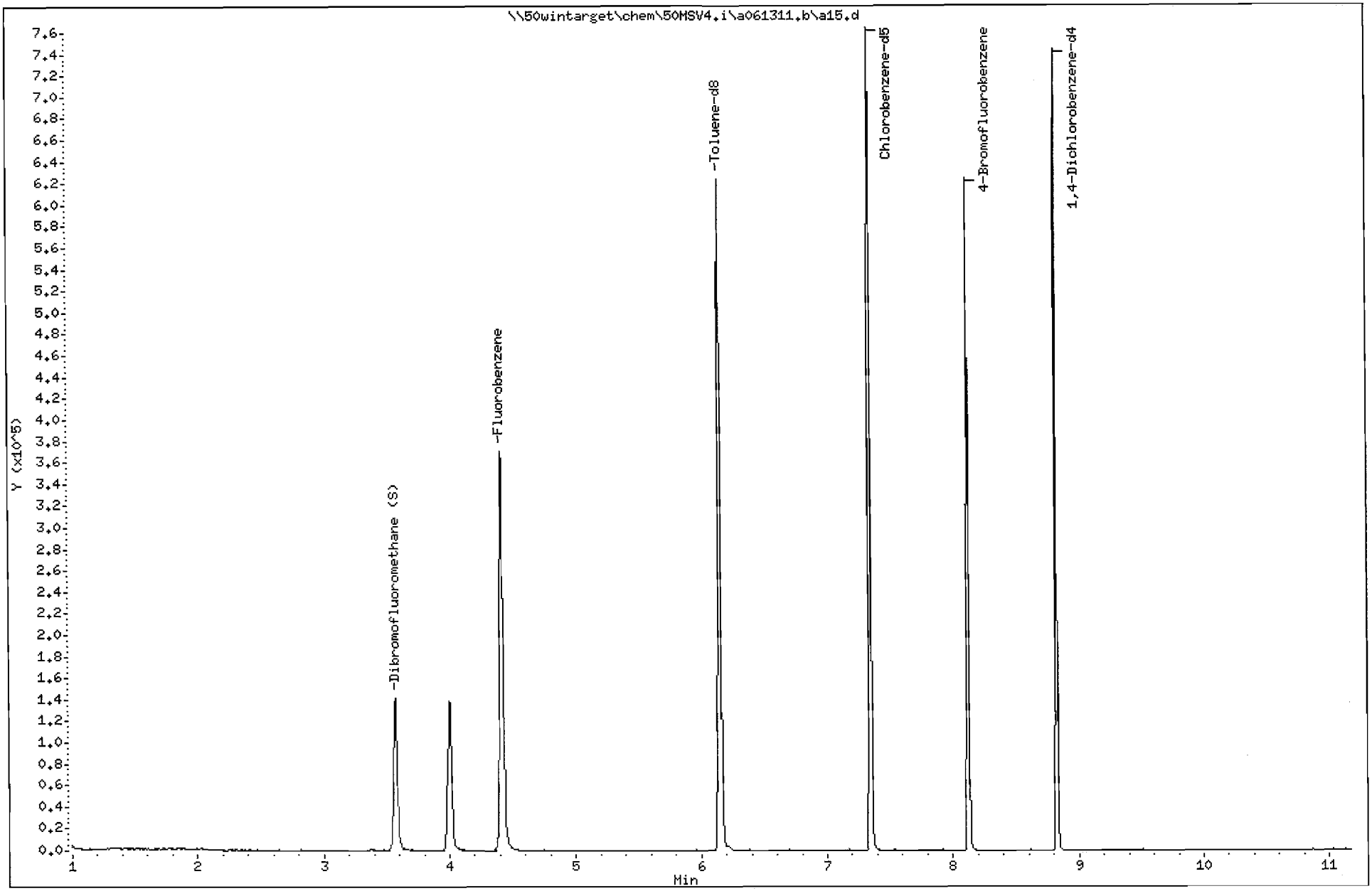
Client Name:
Lab Smp Id: 5049649004
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33253

Client SDG: a061311.b
Client Smp ID: 5049649004
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: grm

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
1868-53-7	Dibromofluoromethane (S)	49.2	
2037-26-5	Toluene-d8	49.2	
460-00-4	4-Bromofluorobenzene	47.1	

Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a15.d
Date : 13-JUN-2011 20:00
Client ID: 5049649004
Sample Info: 5049649004
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: grm
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV4.i\a061311.b\a15.d

Date : 13-JUN-2011 20:00

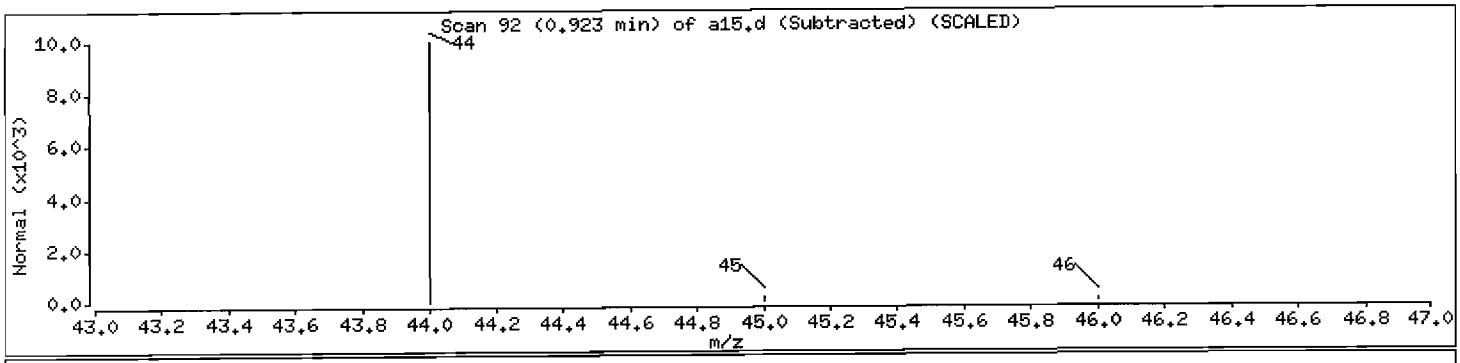
Client ID: 5049649004 Instrument: 50MSV4.i

Sample Info: 5049649004

Purge Volume: 5.0 Operator: grm

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

June 24, 2011

Ms. Susan Scrocchi
Conestoga-Rovers and Associates
2055 Niagara Falls Blvd
Suite 2
Niagara Falls, NY 14304

RE: Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Dear Ms. Scrocchi:
Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

June 29, 2011

Case Narrative- Level Project Review
Project 505050010 (Conestoga-Rovers and Associates)

General Reporting Comments

Quality control issues or reported footnotes that require more detailed information will be covered in this case narrative. Dilutions of samples are indicated in the sample results section under the heading 'DF'. The raw sample and calibration data is included following the body of the report. This raw data is separated by analysis and then further separated into categories of information.

Sample Receiving

No discrepancies were noted concerning sample receipt or sample transfer.

GC/MS Volatiles- Method 8260

Compounds with the N2 footnote indicate the laboratory does not hold NELAC accreditation for that compound. The project specific spike set was performed on sample 5050010001. There was 1 footnote (M0) indicating 1 compound was outside the laboratory control limits. All other quality control indicators for this project (Method Blank and LCS results) are within laboratory acceptance limits.

I have reviewed the data from this project and have found all other discrepancies to be sufficiently covered in the footnotes in the report or documented within the raw data.

Theresa L Sheingold

Theresa Sheingold
Quality Analyst
Pace Analytical Services

The review of this project and the associated case narrative are part of a review process for final reports that require a complete set of data deliverables. This process is completed by a member of the Quality Department as part of Pace Analytical's Indiana state requirements.

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5050010001	**TB-01(062211)-TP**	Water	06/22/11 12:00	06/22/11 15:25
5050010002	**MW-1101-S4(062211)**	Water	06/22/11 12:05	06/22/11 15:25

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5050010001	**TB-01(062211)-TP**	EPA 8260	RSW	51
5050010002	**MW-1101-S4(062211)**	EPA 8260	RSW	51

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Sample: TB-01(062211)-TP **Lab ID: 5050010001** Collected: 06/22/11 12:00 Received: 06/22/11 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/23/11 05:24	67-64-1	
Benzene	ND	ug/L	5.0	1		06/23/11 05:24	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/23/11 05:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/23/11 05:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/23/11 05:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/23/11 05:24	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/23/11 05:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/23/11 05:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/23/11 05:24	75-00-3	
Chloroform	**10.1**	ug/L	5.0	1		06/23/11 05:24	67-66-3	1d
Chloromethane	ND	ug/L	5.0	1		06/23/11 05:24	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/23/11 05:24	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/23/11 05:24	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/23/11 05:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/23/11 05:24	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/23/11 05:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/23/11 05:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/23/11 05:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/23/11 05:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/11 05:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/11 05:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/23/11 05:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/11 05:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/11 05:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/23/11 05:24	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/23/11 05:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/23/11 05:24	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/23/11 05:24	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/23/11 05:24	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/23/11 05:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/23/11 05:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/23/11 05:24	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/23/11 05:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/23/11 05:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/23/11 05:24	127-18-4	
Toluene	ND	ug/L	5.0	1		06/23/11 05:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/23/11 05:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/23/11 05:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/23/11 05:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/23/11 05:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/23/11 05:24	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/23/11 05:24	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Sample: TB-01(062211)-TP **Lab ID: 5050010001** Collected: 06/22/11 12:00 Received: 06/22/11 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/23/11 05:24	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		06/23/11 05:24	1868-53-7	
4-Bromofluorobenzene (S)	113	%	72-125	1		06/23/11 05:24	460-00-4	
Toluene-d8 (S)	109	%	81-114	1		06/23/11 05:24	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Sample: MW-1101-S4(062211) **Lab ID: 5050010002** Collected: 06/22/11 12:05 Received: 06/22/11 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/23/11 07:07	67-64-1	
Benzene	ND	ug/L	5.0	1		06/23/11 07:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/23/11 07:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/23/11 07:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/23/11 07:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/23/11 07:07	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		06/23/11 07:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/23/11 07:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/23/11 07:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/23/11 07:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/23/11 07:07	74-87-3	
Cyclohexane	ND	ug/L	100	1		06/23/11 07:07	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/23/11 07:07	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		06/23/11 07:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/23/11 07:07	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/23/11 07:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/23/11 07:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/23/11 07:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/23/11 07:07	75-35-4	
cis-1,2-Dichloroethene	**6.7**	ug/L	5.0	1		06/23/11 07:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/11 07:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/23/11 07:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/11 07:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/11 07:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/23/11 07:07	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		06/23/11 07:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/23/11 07:07	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		06/23/11 07:07	79-20-9	
Methylcyclohexane	ND	ug/L	50.0	1		06/23/11 07:07	108-87-2	
Methylene chloride	ND	ug/L	5.0	1		06/23/11 07:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/23/11 07:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/23/11 07:07	1634-04-4	
Styrene	ND	ug/L	5.0	1		06/23/11 07:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/23/11 07:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/23/11 07:07	127-18-4	
Toluene	ND	ug/L	5.0	1		06/23/11 07:07	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/23/11 07:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/23/11 07:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/23/11 07:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/23/11 07:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/23/11 07:07	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		06/23/11 07:07	75-01-4	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Sample: MW-1101-S4(062211) **Lab ID: 5050010002** Collected: 06/22/11 12:05 Received: 06/22/11 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		06/23/11 07:07	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		06/23/11 07:07	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		06/23/11 07:07	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		06/23/11 07:07	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

QC Batch: MSV/33539 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5050010001, 5050010002

METHOD BLANK: 589164 | Matrix: Water
Associated Lab Samples: 5050010001, 5050010002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/23/11 01:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/23/11 01:54	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/23/11 01:54	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	06/23/11 01:54	
1,1-Dichloroethane	ug/L	ND	5.0	06/23/11 01:54	
1,1-Dichloroethene	ug/L	ND	5.0	06/23/11 01:54	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/23/11 01:54	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	06/23/11 01:54	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/23/11 01:54	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/23/11 01:54	
1,2-Dichloroethane	ug/L	ND	5.0	06/23/11 01:54	
1,2-Dichloropropane	ug/L	ND	5.0	06/23/11 01:54	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/23/11 01:54	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/23/11 01:54	
2-Butanone (MEK)	ug/L	ND	25.0	06/23/11 01:54	
2-Hexanone	ug/L	ND	25.0	06/23/11 01:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/23/11 01:54	
Acetone	ug/L	ND	100	06/23/11 01:54	
Benzene	ug/L	ND	5.0	06/23/11 01:54	
Bromodichloromethane	ug/L	ND	5.0	06/23/11 01:54	
Bromoform	ug/L	ND	5.0	06/23/11 01:54	
Bromomethane	ug/L	ND	5.0	06/23/11 01:54	
Carbon disulfide	ug/L	ND	10.0	06/23/11 01:54	
Carbon tetrachloride	ug/L	ND	5.0	06/23/11 01:54	
Chlorobenzene	ug/L	ND	5.0	06/23/11 01:54	
Chloroethane	ug/L	ND	5.0	06/23/11 01:54	
Chloroform	ug/L	ND	5.0	06/23/11 01:54	
Chloromethane	ug/L	ND	5.0	06/23/11 01:54	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/23/11 01:54	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/23/11 01:54	
Cyclohexane	ug/L	ND	100	06/23/11 01:54	N2
Dibromochloromethane	ug/L	ND	5.0	06/23/11 01:54	
Dichlorodifluoromethane	ug/L	ND	5.0	06/23/11 01:54	
Ethylbenzene	ug/L	ND	5.0	06/23/11 01:54	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/23/11 01:54	
Methyl acetate	ug/L	ND	50.0	06/23/11 01:54	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	06/23/11 01:54	
Methylcyclohexane	ug/L	ND	50.0	06/23/11 01:54	N2
Methylene chloride	ug/L	ND	5.0	06/23/11 01:54	
Styrene	ug/L	ND	5.0	06/23/11 01:54	
Tetrachloroethene	ug/L	ND	5.0	06/23/11 01:54	
Toluene	ug/L	ND	5.0	06/23/11 01:54	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/23/11 01:54	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

METHOD BLANK: 589164 Matrix: Water

Associated Lab Samples: 5050010001, 5050010002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/23/11 01:54	
Trichloroethene	ug/L	ND	5.0	06/23/11 01:54	
Trichlorofluoromethane	ug/L	ND	5.0	06/23/11 01:54	
Vinyl chloride	ug/L	ND	2.0	06/23/11 01:54	
Xylene (Total)	ug/L	ND	10.0	06/23/11 01:54	
4-Bromofluorobenzene (S)	%	102	72-125	06/23/11 01:54	
Dibromofluoromethane (S)	%	98	83-123	06/23/11 01:54	
Toluene-d8 (S)	%	104	81-114	06/23/11 01:54	

LABORATORY CONTROL SAMPLE: 589165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.0	104	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	68-134	
1,1,2-Trichloroethane	ug/L	50	53.2	106	77-129	
1,1,2-Trichlorotrifluoroethane	ug/L	50	52.5	105	63-134	
1,1-Dichloroethane	ug/L	50	41.7	83	70-127	
1,1-Dichloroethene	ug/L	50	54.9	110	75-145	
1,2,4-Trichlorobenzene	ug/L	50	46.0	92	64-122	
1,2-Dibromo-3-chloropropane	ug/L	50	44.5	89	54-138	
1,2-Dibromoethane (EDB)	ug/L	50	56.8	114	77-123	
1,2-Dichlorobenzene	ug/L	50	50.0	100	74-123	
1,2-Dichloroethane	ug/L	50	52.5	105	71-127	
1,2-Dichloropropane	ug/L	50	55.0	110	75-126	
1,3-Dichlorobenzene	ug/L	50	49.4	99	76-123	
1,4-Dichlorobenzene	ug/L	50	48.0	96	77-121	
2-Butanone (MEK)	ug/L	250	308	123	42-177	
2-Hexanone	ug/L	250	291	116	57-162	
4-Methyl-2-pentanone (MIBK)	ug/L	250	254	102	64-135	
Acetone	ug/L	250	390	156	10-200	
Benzene	ug/L	50	48.8	98	76-123	
Bromodichloromethane	ug/L	50	51.6	103	71-124	
Bromoform	ug/L	50	42.4	85	64-116	
Bromomethane	ug/L	50	44.4	89	23-197	
Carbon disulfide	ug/L	100	106	106	55-146	
Carbon tetrachloride	ug/L	50	50.4	101	65-125	
Chlorobenzene	ug/L	50	51.8	104	78-120	
Chloroethane	ug/L	50	57.2	114	56-163	
Chloroform	ug/L	50	52.2	104	73-122	
Chloromethane	ug/L	50	46.8	94	46-146	
cis-1,2-Dichloroethene	ug/L	50	57.0	114	79-129	
cis-1,3-Dichloropropene	ug/L	50	55.0	110	66-123	
Cyclohexane	ug/L	50	54.5J	109	66-133	N2
Dibromochloromethane	ug/L	50	53.4	107	70-123	
Dichlorodifluoromethane	ug/L	50	46.9	94	19-200	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

LABORATORY CONTROL SAMPLE: 589165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethylbenzene	ug/L	50	53.2	106	75-120	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	73-123	
Methyl acetate	ug/L	50	73.6	147	10-200	N2
Methyl-tert-butyl ether	ug/L	100	96.9	97	66-128	
Methylcyclohexane	ug/L	50	54.9	110	69-127	N2
Methylene chloride	ug/L	50	50.8	102	61-138	
Styrene	ug/L	50	53.8	108	75-125	
Tetrachloroethene	ug/L	50	50.0	100	57-125	
Toluene	ug/L	50	59.8	120	72-124	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	71-145	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	58-118	
Trichloroethene	ug/L	50	55.2	110	77-122	
Trichlorofluoromethane	ug/L	50	49.0	98	56-159	
Vinyl chloride	ug/L	50	51.8	104	61-146	
Xylene (Total)	ug/L	150	175	117	72-126	
4-Bromofluorobenzene (S)	%			107	72-125	
Dibromofluoromethane (S)	%			101	83-123	
Toluene-d8 (S)	%			108	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 589166 589167

Parameter	Units	5050010001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	55.4	59.0	111	118	37-136	6	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	51.3	54.6	103	109	47-132	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.0	58.0	104	116	53-131	11	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	54.9	61.5	110	123	53-132	11	20	
1,1-Dichloroethane	ug/L	ND	50	50	43.0	48.9	86	98	47-138	13	20	
1,1-Dichloroethene	ug/L	ND	50	50	56.6	65.6	113	131	54-152	15	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	45.6	49.0	91	98	10-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	45.0	48.4	90	97	32-139	7	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	56.1	61.3	112	123	49-130	9	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	51.3	54.5	103	109	20-137	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	57.8	59.5	116	119	42-139	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	58.4	62.6	117	125	50-131	7	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	49.1	53.1	98	106	13-143	8	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.4	52.3	95	105	13-140	10	20	
2-Butanone (MEK)	ug/L	ND	250	250	286	308	114	123	43-142	7	20	
2-Hexanone	ug/L	ND	250	250	255	287	102	115	46-139	12	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	245	261	98	104	43-140	6	20	
Acetone	ug/L	ND	250	250	283	315	113	126	38-155	11	20	
Benzene	ug/L	ND	50	50	53.6	56.8	107	114	52-134	6	20	
Bromodichloromethane	ug/L	ND	50	50	60.7	65.7	121	131	42-128	8	20	M0
Bromoform	ug/L	ND	50	50	40.8	46.0	82	92	34-116	12	20	
Bromomethane	ug/L	ND	50	50	49.8	61.5	100	123	10-200	21	20	
Carbon disulfide	ug/L	ND	100	100	115	125	115	125	43-144	9	20	
Carbon tetrachloride	ug/L	ND	50	50	50.2	57.3	100	115	26-136	13	20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 589166 589167

Parameter	Units	5050010001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	50	50	49.8	54.7	100	109	33-136	9	20	
Chloroethane	ug/L	ND	50	50	56.9	70.6	114	141	21-200	21	20	
Chloroform	ug/L	10.1	50	50	67.8	72.7	115	125	50-134	7	20	
Chloromethane	ug/L	ND	50	50	51.5	57.9	103	116	32-160	12	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	62.6	67.6	125	135	48-145	8	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	53.4	56.6	107	113	35-116	6	20	
Cyclohexane	ug/L	ND	50	50	57.5J	61.5J	115	123	48-133		20	N2
Dibromochloromethane	ug/L	ND	50	50	52.8	58.4	106	117	39-122	10	20	
Dichlorodifluoromethane	ug/L	ND	50	50	49.8	56.4	100	113	35-200	12	20	
Ethylbenzene	ug/L	ND	50	50	48.2	54.1	96	108	29-132	11	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	48.0	53.3	96	107	11-146	10	20	
Methyl acetate	ug/L	ND	50	50	60.7	63.9	121	128	21-200	5	20	N2
Methyl-tert-butyl ether	ug/L	ND	100	100	105	115	105	115	39-137	8	20	
Methylcyclohexane	ug/L	ND	50	50	54.7	60.9	109	122	45-129	11	20	N2
Methylene chloride	ug/L	ND	50	50	54.0	57.6	108	115	47-141	7	20	
Styrene	ug/L	ND	50	50	49.4	52.8	99	106	20-143	7	20	
Tetrachloroethene	ug/L	ND	50	50	47.7	53.7	95	107	30-124	12	20	
Toluene	ug/L	ND	50	50	55.3	63.8	111	128	42-130	14	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	55.2	60.4	110	121	48-144	9	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	46.4	52.9	93	106	24-114	13	20	
Trichloroethene	ug/L	ND	50	50	57.2	62.0	114	124	44-130	8	20	
Trichlorofluoromethane	ug/L	ND	50	50	52.7	59.2	105	118	17-200	12	20	
Vinyl chloride	ug/L	ND	50	50	58.9	66.2	118	132	45-159	12	20	
Xylene (Total)	ug/L	ND	150	150	164	179	109	119	29-131	9	20	
4-Bromofluorobenzene (S)	%						99	99	72-125		20	
Dibromofluoromethane (S)	%						107	103	83-123		20	
Toluene-d8 (S)	%						103	100	81-114		20	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1d	Presence of this compound in trip blank indicates that DI water was commercially purchased. RSW 06/23/11
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC accreditation for this parameter.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1185269

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ARCADIS	Report To: Sarah Fisher	Attention:
Address: 251 E Ohio St. Ste. 800 INDPLS, IN 46204	Copy To:	Company Name:
		Address:
Email To: SFisher@arcadis-us.com	Purchase Order No.: IN000473.0020	Pace Quote Reference:
Phone: 3172316500 Fax: 3172316514	Project Name: Allison Transmission	Pace Project Manager: Donna Spykar
Requested Due Date/TAT: ~~STD~~ 2 day per Sarah	Project Number: IN000473.0020	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-01 (062211) - TP	WGQ				6/22/11	1200		3				X						X		001
2	MW-1101-54 (062211)	WG				6/22/11	1205		3				X						X		002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

5050010

TP 6/22/11

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SSOW E027029	T-K / ARCADIS	6/22/11	1525	Kelly Chandler	6/22/11	1525	3.4°C	Y	N	Y
LVL IV										

WF Client del.

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tim Porter

SIGNATURE of SAMPLER: T-K

DATE Signed (MM/DD/YY): 6/22/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical™ Client Name: ARCADIS Project # 5052011

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ZPLC / ICE

Thermometer Used 1 2 3 4 5 6 A B C D E Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 3.4C Ice Visible in Sample Containers: ☐ yes ☒ no

(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 6/22/11 KC

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	6.
Containers Intact:	☒Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☒N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	10.
Trip Blank Present:	☒Yes	☐No	☐N/A	11. TB-01 (062211)-TP
Trip Blank Custody Seals Present	☐Yes	☒No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	12.
Sufficient Volume:	☒Yes	☐No	☐N/A	13.
Correct Containers Used:	☒Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] Date: 6/22/11

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: ARCADIS

COC PAGE 1 of 1

COC ID# 11850269

Project # 5050011

Pace Analytical
www.pacelabs.com

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															
2	3															
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Project Number 5050010

Initials/ Date Compiled RSW 6/28/11

Section 1: Prep and Analytical Information

**** Sample Preparation Logs***
**** Instrument Run Logs***
**** Internal Standard Summary (Form 8A)***

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: TB-01(062211)-TP
Lab ID: 5050010001
Collected: 06/22/11 12:00
Received: 06/22/11 15:25

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/23/11 05:24	
71-43-2	Benzene	ND	ug/L	5.0	1		06/23/11 05:24	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/23/11 05:24	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/23/11 05:24	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/23/11 05:24	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/23/11 05:24	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/23/11 05:24	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/23/11 05:24	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/23/11 05:24	
67-66-3	Chloroform	**10.1**	ug/L	5.0	1		06/23/11 05:24	1d
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/23/11 05:24	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/23/11 05:24	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/23/11 05:24	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/23/11 05:24	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/23/11 05:24	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/23/11 05:24	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/23/11 05:24	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/23/11 05:24	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/23/11 05:24	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/11 05:24	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/11 05:24	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/23/11 05:24	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/11 05:24	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/11 05:24	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/23/11 05:24	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/23/11 05:24	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/23/11 05:24	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/23/11 05:24	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/23/11 05:24	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/23/11 05:24	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/23/11 05:24	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/23/11 05:24	
100-42-5	Styrene	ND	ug/L	5.0	1		06/23/11 05:24	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/23/11 05:24	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/23/11 05:24	
108-88-3	Toluene	ND	ug/L	5.0	1		06/23/11 05:24	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/23/11 05:24	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/23/11 05:24	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/23/11 05:24	
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/23/11 05:24	

Date: 06/29/2011 07:34 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: TB-01(062211)-TP
Lab ID: 5050010001
Collected: 06/22/11 12:00
Received: 06/22/11 15:25

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/23/11 05:24	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/23/11 05:24	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/23/11 05:24	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/23/11 05:24	
1868-53-7	Dibromofluoromethane (S)	**101**	%	83-123	1		06/23/11 05:24	
460-00-4	4-Bromofluorobenzene (S)	**113**	%	72-125	1		06/23/11 05:24	
2037-26-5	Toluene-d8 (S)	**109**	%	81-114	1		06/23/11 05:24	

Date: 06/29/2011 07:34 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1101-S4(062211)
Lab ID: 5050010002
Collected: 06/22/11 12:05
Received: 06/22/11 15:25

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
67-64-1	Acetone	ND	ug/L	100	1		06/23/11 07:07	
71-43-2	Benzene	ND	ug/L	5.0	1		06/23/11 07:07	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	1		06/23/11 07:07	
75-25-2	Bromoform	ND	ug/L	5.0	1		06/23/11 07:07	
74-83-9	Bromomethane	ND	ug/L	5.0	1		06/23/11 07:07	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	1		06/23/11 07:07	
75-15-0	Carbon disulfide	ND	ug/L	10.0	1		06/23/11 07:07	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	1		06/23/11 07:07	
108-90-7	Chlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	
75-00-3	Chloroethane	ND	ug/L	5.0	1		06/23/11 07:07	
67-66-3	Chloroform	ND	ug/L	5.0	1		06/23/11 07:07	
74-87-3	Chloromethane	ND	ug/L	5.0	1		06/23/11 07:07	
110-82-7	Cyclohexane	ND	ug/L	100	1		06/23/11 07:07	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		06/23/11 07:07	
124-48-1	Dibromochloromethane	ND	ug/L	5.0	1		06/23/11 07:07	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/23/11 07:07	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	1		06/23/11 07:07	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	1		06/23/11 07:07	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	1		06/23/11 07:07	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	1		06/23/11 07:07	
156-59-2	cis-1,2-Dichloroethene	**6.7**	ug/L	5.0	1		06/23/11 07:07	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/23/11 07:07	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	1		06/23/11 07:07	
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/11 07:07	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/23/11 07:07	
100-41-4	Ethylbenzene	ND	ug/L	5.0	1		06/23/11 07:07	
591-78-6	2-Hexanone	ND	ug/L	25.0	1		06/23/11 07:07	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/23/11 07:07	
79-20-9	Methyl acetate	ND	ug/L	50.0	1		06/23/11 07:07	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	1		06/23/11 07:07	
75-09-2	Methylene chloride	ND	ug/L	5.0	1		06/23/11 07:07	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/23/11 07:07	
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/23/11 07:07	
100-42-5	Styrene	ND	ug/L	5.0	1		06/23/11 07:07	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/23/11 07:07	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	1		06/23/11 07:07	
108-88-3	Toluene	ND	ug/L	5.0	1		06/23/11 07:07	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/23/11 07:07	
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/23/11 07:07	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/23/11 07:07	
79-01-6	Trichloroethene	ND	ug/L	5.0	1		06/23/11 07:07	

Date: 06/29/2011 07:34 AM

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

Matrix: Water
% Moisture:
Acode: 8260 MSV
Prep/Method: EPA 8260

Sample: MW-1101-S4(062211)
Lab ID: 5050010002
Collected: 06/22/11 12:05
Received: 06/22/11 15:25

CAS No.	Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	Qual
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	1		06/23/11 07:07	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		06/23/11 07:07	
75-01-4	Vinyl chloride	ND	ug/L	2.0	1		06/23/11 07:07	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	1		06/23/11 07:07	
1868-53-7	Dibromofluoromethane (S)	**98**	%	83-123	1		06/23/11 07:07	
460-00-4	4-Bromofluorobenzene (S)	**104**	%	72-125	1		06/23/11 07:07	
2037-26-5	Toluene-d8 (S)	**97**	%	81-114	1		06/23/11 07:07	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

QB Batch: MSV/33539
Method(s): EPA 8260
Associated Lab Samples: 5050010001, 5050010002

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
71-55-6	1,1,1-Trichloroethane	ND	ug/L	5.0	06/23/11	
79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	06/23/11	
79-00-5	1,1,2-Trichloroethane	ND	ug/L	5.0	06/23/11	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	06/23/11	
75-34-3	1,1-Dichloroethane	ND	ug/L	5.0	06/23/11	
75-35-4	1,1-Dichloroethene	ND	ug/L	5.0	06/23/11	
120-82-1	1,2,4-Trichlorobenzene	ND	ug/L	5.0	06/23/11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	06/23/11	
106-93-4	1,2-Dibromoethane (EDB)	ND	ug/L	5.0	06/23/11	
95-50-1	1,2-Dichlorobenzene	ND	ug/L	5.0	06/23/11	
107-06-2	1,2-Dichloroethane	ND	ug/L	5.0	06/23/11	
78-87-5	1,2-Dichloropropane	ND	ug/L	5.0	06/23/11	
541-73-1	1,3-Dichlorobenzene	ND	ug/L	5.0	06/23/11	
106-46-7	1,4-Dichlorobenzene	ND	ug/L	5.0	06/23/11	
78-93-3	2-Butanone (MEK)	ND	ug/L	25.0	06/23/11	
591-78-6	2-Hexanone	ND	ug/L	25.0	06/23/11	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	06/23/11	
67-64-1	Acetone	ND	ug/L	100	06/23/11	
71-43-2	Benzene	ND	ug/L	5.0	06/23/11	
75-27-4	Bromodichloromethane	ND	ug/L	5.0	06/23/11	
75-25-2	Bromoform	ND	ug/L	5.0	06/23/11	
74-83-9	Bromomethane	ND	ug/L	5.0	06/23/11	
75-15-0	Carbon disulfide	ND	ug/L	10.0	06/23/11	
56-23-5	Carbon tetrachloride	ND	ug/L	5.0	06/23/11	
108-90-7	Chlorobenzene	ND	ug/L	5.0	06/23/11	
75-00-3	Chloroethane	ND	ug/L	5.0	06/23/11	
67-66-3	Chloroform	ND	ug/L	5.0	06/23/11	
74-87-3	Chloromethane	ND	ug/L	5.0	06/23/11	
156-59-2	cis-1,2-Dichloroethene	ND	ug/L	5.0	06/23/11	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

METHOD BLANK RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

QB Batch: MSV/33539
Method(s): EPA 8260
Associated Lab Samples: 5050010001, 5050010002

Prepared:

CAS No.	Parameters	Results	Units	Reporting Limit	Analyzed	Qual
10061-01-5	cis-1,3-Dichloropropene	ND	ug/L	5.0	06/23/11	
110-82-7	Cyclohexane	ND	ug/L	100	06/23/11	N2
124-48-1	Dibromochloromethane	ND	ug/L	5.0	06/23/11	
75-71-8	Dichlorodifluoromethane	ND	ug/L	5.0	06/23/11	
100-41-4	Ethylbenzene	ND	ug/L	5.0	06/23/11	
98-82-8	Isopropylbenzene (Cumene)	ND	ug/L	5.0	06/23/11	
79-20-9	Methyl acetate	ND	ug/L	50.0	06/23/11	N2
1634-04-4	Methyl-tert-butyl ether	ND	ug/L	4.0	06/23/11	
108-87-2	Methylcyclohexane	ND	ug/L	50.0	06/23/11	N2
75-09-2	Methylene chloride	ND	ug/L	5.0	06/23/11	
100-42-5	Styrene	ND	ug/L	5.0	06/23/11	
127-18-4	Tetrachloroethene	ND	ug/L	5.0	06/23/11	
108-88-3	Toluene	ND	ug/L	5.0	06/23/11	
156-60-5	trans-1,2-Dichloroethene	ND	ug/L	5.0	06/23/11	
10061-02-6	trans-1,3-Dichloropropene	ND	ug/L	5.0	06/23/11	
79-01-6	Trichloroethene	ND	ug/L	5.0	06/23/11	
75-69-4	Trichlorofluoromethane	ND	ug/L	5.0	06/23/11	
75-01-4	Vinyl chloride	ND	ug/L	2.0	06/23/11	
1330-20-7	Xylene (Total)	ND	ug/L	10.0	06/23/11	

Type	Sample	Matrix
BLANK	589164	Water

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SURROGATE RECOVERY SUMMARY

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

QB Batch: MSV / 33539
Method(s): EPA 8260 / EPA 8260

Lab ID	Type	Client Sample ID	Dilution	Sur1 % Rec	Sur1 Qual	Sur2 % Rec	Sur2 Qual	Sur3 % Rec	Sur3 Qual	Sur4 % Rec	Sur4 Qual	Sur5 % Rec	Sur5 Qual	Sur6 % Rec	Sur6 Qual
5050010001		TB-01(062211)-TP	1	113		101		109							
589164	BLANK		1	102		98		104							
5050010002		MW-1101-S4(062211)	1	104		98		97							
589165	LCS		1	107		101		108							
589166	MS		1	99		107		103							
589167	MSD		1	99		103		100							
			QC Limits:	72-125		83-123		81-114							

Sur 1: 4-Bromofluorobenzene (S)
Sur 2: Dibromofluoromethane (S)
Sur 3: Toluene-d8 (S)

Date: 06/29/2011 07:34 AM

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

QB Batch: MSV/33539 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	104			69-126		50	52.0		ug/L	06/23/11			
1,1,2,2-Tetrachloroethane	99			68-134		50	49.4		ug/L	06/23/11			
1,1,2-Trichloroethane	106			77-129		50	53.2		ug/L	06/23/11			
1,1,2-Trichlorotrifluoroethane	105			63-134		50	52.5		ug/L	06/23/11			
1,1-Dichloroethane	83			70-127		50	41.7		ug/L	06/23/11			
1,1-Dichloroethene	110			75-145		50	54.9		ug/L	06/23/11			
1,2,4-Trichlorobenzene	92			64-122		50	46.0		ug/L	06/23/11			
1,2-Dibromo-3-chloropropane	89			54-138		50	44.5		ug/L	06/23/11			
1,2-Dibromoethane (EDB)	114			77-123		50	56.8		ug/L	06/23/11			
1,2-Dichlorobenzene	100			74-123		50	50.0		ug/L	06/23/11			
1,2-Dichloroethane	105			71-127		50	52.5		ug/L	06/23/11			
1,2-Dichloropropane	110			75-126		50	55.0		ug/L	06/23/11			
1,3-Dichlorobenzene	99			76-123		50	49.4		ug/L	06/23/11			
1,4-Dichlorobenzene	96			77-121		50	48.0		ug/L	06/23/11			
2-Butanone (MEK)	123			42-177		250	308		ug/L	06/23/11			
2-Hexanone	116			57-162		250	291		ug/L	06/23/11			
4-Methyl-2-pentanone (MIBK)	102			64-135		250	254		ug/L	06/23/11			
Acetone	156			10-200		250	390		ug/L	06/23/11			
Benzene	98			76-123		50	48.8		ug/L	06/23/11			
Bromodichloromethane	103			71-124		50	51.6		ug/L	06/23/11			
Bromoform	85			64-116		50	42.4		ug/L	06/23/11			
Bromomethane	89			23-197		50	44.4		ug/L	06/23/11			
Carbon disulfide	106			55-146		100	106		ug/L	06/23/11			
Carbon tetrachloride	101			65-125		50	50.4		ug/L	06/23/11			
Chlorobenzene	104			78-120		50	51.8		ug/L	06/23/11			
Chloroethane	114			56-163		50	57.2		ug/L	06/23/11			
Chloroform	104			73-122		50	52.2		ug/L	06/23/11			
Chloromethane	94			46-146		50	46.8		ug/L	06/23/11			
cis-1,2-Dichloroethene	114			79-129		50	57.0		ug/L	06/23/11			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

LAB CONTROL SAMPLE RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

QB Batch: MSV/33539 **LCS Prepared:**
Method(s): EPA 8260 **LCSD Prepared:**

Analyte	LCS % Rec	LCSD % Rec	RPD	QC Limits % Rec	QC Limits RPD	Spike Conc	LCS Conc	LCSD Conc	Units	LCS Analyzed	LCSD Analyzed	LCS Qual	LCSD Qual
cis-1,3-Dichloropropene	110			66-123		50	55.0		ug/L	06/23/11			
Cyclohexane	109			66-133		50	54.5J		ug/L	06/23/11		N2	
Dibromochloromethane	107			70-123		50	53.4		ug/L	06/23/11			
Dichlorodifluoromethane	94			19-200		50	46.9		ug/L	06/23/11			
Ethylbenzene	106			75-120		50	53.2		ug/L	06/23/11			
Isopropylbenzene (Cumene)	103			73-123		50	51.5		ug/L	06/23/11			
Methyl acetate	147			10-200		50	73.6		ug/L	06/23/11		N2	
Methyl-tert-butyl ether	97			66-128		100	96.9		ug/L	06/23/11			
Methylcyclohexane	110			69-127		50	54.9		ug/L	06/23/11		N2	
Methylene chloride	102			61-138		50	50.8		ug/L	06/23/11			
Styrene	108			75-125		50	53.8		ug/L	06/23/11			
Tetrachloroethene	100			57-125		50	50.0		ug/L	06/23/11			
Toluene	120			72-124		50	59.8		ug/L	06/23/11			
trans-1,2-Dichloroethene	104			71-145		50	51.9		ug/L	06/23/11			
trans-1,3-Dichloropropene	98			58-118		50	49.1		ug/L	06/23/11			
Trichloroethene	110			77-122		50	55.2		ug/L	06/23/11			
Trichlorofluoromethane	98			56-159		50	49.0		ug/L	06/23/11			
Vinyl chloride	104			61-146		50	51.8		ug/L	06/23/11			
Xylene (Total)	117			72-126		150	175		ug/L	06/23/11			

Type	Sample
LCS	589165

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

MATRIX SPIKE SAMPLE RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

QB Batch: MSV/33539
Method(s): EPA 8260

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc		Result		Dilution		% Recovery		QC Limits		Max	Analyzed Date		Qualifier(s)	
			MS	MSD	MS	MSD	MS	MSD	MS	MSD	%Recovery	RPD	RPD	MS	MSD	MS	MSD
1,1,1-Trichloroethane	ug/L	ND	50	50	55.4	59.0	1	1	111	118	37-136	6	20	06/23/11	06/23/11		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	51.3	54.6	1	1	103	109	47-132	6	20	06/23/11	06/23/11		
1,1,2-Trichloroethane	ug/L	ND	50	50	52.0	58.0	1	1	104	116	53-131	11	20	06/23/11	06/23/11		
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	54.9	61.5	1	1	110	123	53-132	11	20	06/23/11	06/23/11		
1,1-Dichloroethane	ug/L	ND	50	50	43.0	48.9	1	1	86	98	47-138	13	20	06/23/11	06/23/11		
1,1-Dichloroethene	ug/L	ND	50	50	56.6	65.6	1	1	113	131	54-152	15	20	06/23/11	06/23/11		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	45.6	49.0	1	1	91	98	10-130	7	20	06/23/11	06/23/11		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	45.0	48.4	1	1	90	97	32-139	7	20	06/23/11	06/23/11		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	56.1	61.3	1	1	112	123	49-130	9	20	06/23/11	06/23/11		
1,2-Dichlorobenzene	ug/L	ND	50	50	51.3	54.5	1	1	103	109	20-137	6	20	06/23/11	06/23/11		
1,2-Dichloroethane	ug/L	ND	50	50	57.8	59.5	1	1	116	119	42-139	3	20	06/23/11	06/23/11		
1,2-Dichloropropane	ug/L	ND	50	50	58.4	62.6	1	1	117	125	50-131	7	20	06/23/11	06/23/11		
1,3-Dichlorobenzene	ug/L	ND	50	50	49.1	53.1	1	1	98	106	13-143	8	20	06/23/11	06/23/11		
1,4-Dichlorobenzene	ug/L	ND	50	50	47.4	52.3	1	1	95	105	13-140	10	20	06/23/11	06/23/11		
2-Butanone (MEK)	ug/L	ND	250	250	286	308	1	1	114	123	43-142	7	20	06/23/11	06/23/11		
2-Hexanone	ug/L	ND	250	250	255	287	1	1	102	115	46-139	12	20	06/23/11	06/23/11		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	245	261	1	1	98	104	43-140	6	20	06/23/11	06/23/11		
Acetone	ug/L	ND	250	250	283	315	1	1	113	126	38-155	11	20	06/23/11	06/23/11		
Benzene	ug/L	ND	50	50	53.6	56.8	1	1	107	114	52-134	6	20	06/23/11	06/23/11		
Bromodichloromethane	ug/L	ND	50	50	60.7	65.7	1	1	121	131	42-128	8	20	06/23/11	06/23/11		M0
Bromoform	ug/L	ND	50	50	40.8	46.0	1	1	82	92	34-116	12	20	06/23/11	06/23/11		
Bromomethane	ug/L	ND	50	50	49.8	61.5	1	1	100	123	10-200	21	20	06/23/11	06/23/11		
Carbon disulfide	ug/L	ND	100	100	115	125	1	1	115	125	43-144	9	20	06/23/11	06/23/11		
Carbon tetrachloride	ug/L	ND	50	50	50.2	57.3	1	1	100	115	26-136	13	20	06/23/11	06/23/11		
Chlorobenzene	ug/L	ND	50	50	49.8	54.7	1	1	100	109	33-136	9	20	06/23/11	06/23/11		
Chloroethane	ug/L	ND	50	50	56.9	70.6	1	1	114	141	21-200	21	20	06/23/11	06/23/11		
Chloroform	ug/L	10.1	50	50	67.8	72.7	1	1	115	125	50-134	7	20	06/23/11	06/23/11		
Chloromethane	ug/L	ND	50	50	51.5	57.9	1	1	103	116	32-160	12	20	06/23/11	06/23/11		
cis-1,2-Dichloroethene	ug/L	ND	50	50	62.6	67.6	1	1	125	135	48-145	8	20	06/23/11	06/23/11		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

MATRIX SPIKE SAMPLE RESULTS

Project: E027029 / Allison Transmission
Pace Project No.: 5050010

QB Batch: MSV/33539
Method(s): EPA 8260

MS Prepared:
MSD Prepared:

Analyte	Units	Sample Conc	Spike Conc MS	Spike Conc MSD	Result MS	Result MSD	Dilution MS	Dilution MSD	% Recovery MS	% Recovery MSD	QC Limits %Recovery	RPD	Max RPD	Analyzed Date MS	Analyzed Date MSD	Qualifier(s) MS	Qualifier(s) MSD
cis-1,3-Dichloropropene	ug/L	ND	50	50	53.4	56.6	1	1	107	113	35-116	6	20	06/23/11	06/23/11		
Cyclohexane	ug/L	ND	50	50	57.5J	61.5J	1	1	115	123	48-133		20	06/23/11	06/23/11	N2	N2
Dibromochloromethane	ug/L	ND	50	50	52.8	58.4	1	1	106	117	39-122	10	20	06/23/11	06/23/11		
Dichlorodifluoromethane	ug/L	ND	50	50	49.8	56.4	1	1	100	113	35-200	12	20	06/23/11	06/23/11		
Ethylbenzene	ug/L	ND	50	50	48.2	54.1	1	1	96	108	29-132	11	20	06/23/11	06/23/11		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	48.0	53.3	1	1	96	107	11-146	10	20	06/23/11	06/23/11		
Methyl acetate	ug/L	ND	50	50	60.7	63.9	1	1	121	128	21-200	5	20	06/23/11	06/23/11	N2	N2
Methyl-tert-butyl ether	ug/L	ND	100	100	105	115	1	1	105	115	39-137	8	20	06/23/11	06/23/11		
Methylcyclohexane	ug/L	ND	50	50	54.7	60.9	1	1	109	122	45-129	11	20	06/23/11	06/23/11	N2	N2
Methylene chloride	ug/L	ND	50	50	54.0	57.6	1	1	108	115	47-141	7	20	06/23/11	06/23/11		
Styrene	ug/L	ND	50	50	49.4	52.8	1	1	99	106	20-143	7	20	06/23/11	06/23/11		
Tetrachloroethene	ug/L	ND	50	50	47.7	53.7	1	1	95	107	30-124	12	20	06/23/11	06/23/11		
Toluene	ug/L	ND	50	50	55.3	63.8	1	1	111	128	42-130	14	20	06/23/11	06/23/11		
trans-1,2-Dichloroethene	ug/L	ND	50	50	55.2	60.4	1	1	110	121	48-144	9	20	06/23/11	06/23/11		
trans-1,3-Dichloropropene	ug/L	ND	50	50	46.4	52.9	1	1	93	106	24-114	13	20	06/23/11	06/23/11		
Trichloroethene	ug/L	ND	50	50	57.2	62.0	1	1	114	124	44-130	8	20	06/23/11	06/23/11		
Trichlorofluoromethane	ug/L	ND	50	50	52.7	59.2	1	1	105	118	17-200	12	20	06/23/11	06/23/11		
Vinyl chloride	ug/L	ND	50	50	58.9	66.2	1	1	118	132	45-159	12	20	06/23/11	06/23/11		
Xylene (Total)	ug/L	ND	150	150	164	179	1	1	109	119	29-131	9	20	06/23/11	06/23/11		

Type	Sample	Client Sample ID
MS	589166	TB-01(062211)-TP
MSD	589167	TB-01(062211)-TP

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV1.i
Column DB-624 20m X 0.18mm Helium — Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]:
ISTD lot: — Surr. lot:
Tune std: _____ — Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/b00bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/20/11	14:26	rsw	tune ↑ several compds
1/b01.d	1ppb 34D-444/446	L/	CALIB_1	1	-b8260_a_b	6/20/11	15:00	rsw	Inopening
1/b02.d	2ppb	L/	CALIB_2	1	-b8260_a_b	6/20/11	15:36	rsw	
1/b03.d	5ppb	L/	CALIB_3	1	-b8260_a_b	6/20/11	16:10	rsw	
1/b04.d	10ppb	L/	CALIB_4	1	-b8260_a_b	6/20/11	16:44	rsw	
1/b05.d	20ppb	L/	CALIB_5	1	-b8260_a_b	6/20/11	17:17	rsw	
1/b06.d	50ppb	L/	CALIB_6	1	-b8260_a_b	6/20/11	17:53	rsw	
1/b07.d	150ppb	L/	CALIB_7	1	-b8260_a_b	6/20/11	18:27	rsw	
1/b08.d	300ppb	L/	CALIB_8	1	-b8260_a_b	6/20/11	19:02	rsw	
1/b09icv.d	icv 34D-449	L/	ICV	1	-b8260_a_b	6/20/11	19:39	rsw	curve passes full
1/b10mb.d	mb MeOH DD471	L/	BLANK	1	-b8260_a_b	6/20/11	20:16	rsw	
1/d00bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/20/11	20:50	rsw	
1/d01ccv.d	ccv	L/	CCALIB_6	1	-b8260_a_b	6/20/11	21:24	rsw	CC passes full
1/d02lcs.d	lcs	L/	LCS	1	-b8260_a_b	6/20/11	21:57	rsw	
1/d03mb.d	mb	L/	BLANK	1	-b8260_a_b	6/20/11	22:34	rsw	
1/d04.d	5049516011	L/	SAMPLE	1	-b8260_a_b	6/20/11	23:09	rsw	
1/d05.d	5049516012	L/	SAMPLE	1	-b8260_a_b	6/20/11	23:42	rsw	
1/d06.d	5049516012	L/	SAMPLE	10	-b8260_a_b	6/21/11	00:17	rsw	
1/d07.d	5049571012	L/	SAMPLE	10	-b8260_a_b	6/21/11	00:51	rsw	33452
1/d08.d	5049571015	L/	SAMPLE	50	-b8260_a_b	6/21/11	01:25	rsw	33452
1/d09.d	5049610001	S/	SAMPLE	1	-b8260_a_b	6/21/11	02:00	rsw	
1/d10.d	5049826002	S/	SAMPLE	1	-b8260_a_b	6/21/11	02:34	rsw	
1/d11.d	5049826003	S/	SAMPLE	1	-b8260_a_b	6/21/11	03:08	rsw	
1/d12.d	5049826004	S/	SAMPLE	1	-b8260_a_b	6/21/11	03:42	rsw	
1/d13.d	5049826005	S/	SAMPLE	1	-b8260_a_b	6/21/11	04:20	rsw	
1/d14.d	ms5049826005	S/	MS	1	-b8260_a_b	6/21/11	04:53	rsw	
1/d15.d	msd5049826005	S/	SAMPLE	1	-b8260_a_b	6/21/11	05:26	rsw	
1/d16.d	5049826006	S/	SAMPLE	1	-b8260_a_b	6/21/11	06:02	rsw	
1/d17.d	5049622001	L/	SAMPLE	1	-b8260_a_b	6/21/11	06:37	rsw	
1/d18.d	5049622002	L/	SAMPLE	1	-b8260_a_b	6/21/11	07:11	rsw	
1/d19.d	5049622003	L/	SAMPLE	1	-b8260_a_b	6/21/11	07:45	rsw	
1/d20.d	5049622004	L/	SAMPLE	1	-b8260_a_b	6/21/11	08:22	rsw	

File Path 1: \\50wintarget\chem\50MSV1.i\b062011a.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:55 06/21/2011

RSW 6/24/11

All water samples have a pH below 2 unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV1.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]:
ISTD lot: Surr. lot:
Tune std: _____ Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/b00bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/22/11	12:06	rsw	
1/b01ccv.d	ccv 34D-444/446	L/	CCALIB_6	1	-b8260_a_b	6/22/11	12:40	rsw	Tchlor
1/b02ccv.d	ccv 34D-449	L/	CCALIB_6	1	-b8260_a_b	6/22/11	13:16	rsw	LCS used as CCV
1/b02lcs.d	lcs 34D-449	L/	LCS	1	-b8260_a_b	6/22/11	13:16	rsw	QC passes full
1/b03mb.d	mb MeOH DD728	L/	BLANK	1	-b8260_a_b	6/22/11	13:50	rsw	
1/b04.d posted	5049970002 TC	S/33510	SAMPLE	100	-b8260_a_b	6/22/11	14:24	rsw	
1/b05.d	5049853001 SOil	S/ MSV 33535	SAMPLE	1	-b8260_a_b	6/22/11	14:57	rsw	
1/b06.d	5049853002	S/	SAMPLE	1	-b8260_a_b	6/22/11	15:34	rsw	
1/b07.d posted	5049616002	S/33512	SAMPLE	100	-b8260_a_b	6/22/11	16:07	rsw	
1/b08.d	5049853003	S/ MSV 33535	SAMPLE	1	-b8260_a_b	6/22/11	16:41	rsw	
1/b09.d	5049837001 USTW	L/	SAMPLE	1	-b8260_a_b	6/22/11	17:14	rsw	
1/b10.d	ms5049837001	L/	MS	1	-b8260_a_b	6/22/11	17:48	rsw	
1/b11.d	msd5049837001	L/	MSD	1	-b8260_a_b	6/22/11	18:21	rsw	
1/b12.d	5049837002	L/	SAMPLE	1	-b8260_a_b	6/22/11	18:55	rsw	
1/b13.d	5049837003	L/	SAMPLE	1	-b8260_a_b	6/22/11	19:33	rsw	
1/b14.d	5049837004	L/ MSV 33537	SAMPLE	1	-b8260_a_b	6/22/11	20:09	rsw	
1/b15.d	5049837005	L/	SAMPLE	1	-b8260_a_b	6/22/11	20:46	rsw	
1/b16.d	5049837006	L/	SAMPLE	5	-b8260_a_b	6/22/11	21:19	rsw	
1/b17.d	5049837007	L/	SAMPLE	1	-b8260_a_b	6/22/11	21:52	rsw	
1/b18.d	5049837008	L/	SAMPLE	1	-b8260_a_b	6/22/11	22:28	rsw	
1/b19.d	5049837009	L/	SAMPLE	1	-b8260_a_b	6/22/11	23:01	rsw	
1/b20.d	5049837010	L/	SAMPLE	1	-b8260_a_b	6/22/11	23:35	rsw	
1/d00bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/23/11	00:09	rsw	BFB failed
1/d01bfb.d	bfb050 34D-354	L/	BFB	1	-bfb390	6/23/11	00:45	rsw	CCV as BFB
1/d01ccv.d	ccv	L/	CCALIB_6	1	-b8260_a_b	6/23/11	00:45	rsw	QC passes full
1/d02lcs.d	lcs	L/	LCS	1	-b8260_a_b	6/23/11	01:18	rsw	TMP - clean UST only
1/d03mb.d	mb	L/	BLANK	1	-b8260_a_b	6/23/11	01:54	rsw	
1/d04.d	5049996001 SOil	S/	SAMPLE	1	-b8260_a_b	6/23/11	02:31	rsw	
1/d05.d	ms5049996001	S/ MSV 33538	MS	1	-b8260_a_b	6/23/11	03:06	rsw	
1/d06.d	msd5049996001	S/	MSD	1	-b8260_a_b	6/23/11	03:41	rsw	
1/d07.d	5049579006 USTS	S/	SAMPLE	50	-b8260_a_b	6/23/11	04:15	rsw	
1/d08.d	5049579006	S/	SAMPLE	500	-b8260_a_b	6/23/11	04:49	rsw	
1/d09.d	5050010001 W	L/ MSV 33539	SAMPLE	1	-b8260_a_b	6/23/11	05:24	rsw	

File Path 1: \\50wintarget\chem\50MSV1.i\b062211.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:27 06/23/2011

RSW 6/23/11

All water samples have a pH below 2 unless otherwise noted

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50MSV1.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]:
ISTD lot: Surr. lot:
Tune std: _____ Cal. std: _____

Path/File	Lab ID	Mtrx/Batch	Type	DF	Method	Date	Time	Oper	Comments
1/d10.d	ms5050010001	L/	MS	1	-b8260_a_b	6/23/11	05:58	rsw	
1/d11.d	msd5050010001	L/	MSD	1	-b8260_a_b	6/23/11	06:34	rsw	
1/d12.d	5050010002	L/ MSV 33539	SAMPLE	1	-b8260_a_b	6/23/11	07:07	rsw	
1/d13.d	5050012001	L/	SAMPLE	1	-b8260_a_b	6/23/11	07:43	rsw	
1/d14.d	5050013001	L/	SAMPLE	1	-b8260_a_b	6/23/11	08:16	rsw	
1/d15.d	5050013002	L/	SAMPLE	1	-b8260_a_b	6/23/11	08:50	rsw	
1/d16.d	5050013003	L/	SAMPLE	1	-b8260_a_b	6/23/11	09:23	rsw	
1/d17.d	5050013004	L/	SAMPLE	1	-b8260_a_b	6/23/11	09:57	rsw	

File Path 1: \\50wintarget\chem\50MSV1.i\b062211.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:27 06/23/2011 Page: 2

RSW 6/23/11

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B062211.B

Lab File ID (Standard): D01CCV Date Analyzed: 06/23/11

Instrument ID: 50MSV1 Time Analyzed: 0045

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(CBZ) AREA #	RT	IS2(DCB) AREA #	RT	IS3 AREA #	RT
	12 HOUR STD	73321	7.30	35100	8.79	80205	4.12
	UPPER LIMIT	146642	7.80	70200	9.29	160410	4.62
	LOWER LIMIT	36661	6.80	17550	8.29	40103	3.62
	EPA SAMPLE NO.						
01	LCS	69052	7.30	34659	8.80	80125	4.12
02	MB	79609	7.30	42448	8.79	89202	4.12
03	5049996001	68648	7.30	34662	8.79	82055	4.12
04	MS5049996001	75821	7.30	35320	8.80	85266	4.12
05	MSD504999600	80655	7.30	38089	8.79	90019	4.12
06	5049579006	63196	7.30	35431	8.80	79393	4.12
07	5049579006	75917	7.30	41732	8.79	87556	4.12
08	5050010001	70755	7.30	36943	8.79	87890	4.12
09	MS5050010001	75004	7.30	36354	8.79	78638	4.12
10	MSD505001000	73453	7.30	36514	8.80	77879	4.12
11	5050010002	78403	7.30	41823	8.79	89326	4.12
12	5050012001	75293	7.30	42643	8.79	85415	4.12
13	5050013001	77673	7.30	42561	8.80	91969	4.12
14	5050013002	81316	7.30	47277	8.80	95036	4.12
15	5050013003	74946	7.30	41145	8.79	85400	4.12
16	5050013004	73009	7.30	41325	8.80	88523	4.13
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DCB) = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

UPPER LIMIT = +100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

FORM VIII VOA 1/87 Rev.

Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 2: Initial Calibration Data

** Initial Calibration Summary Table*
** BFB Tune Information*
** Initial Calibration Standards*
** ICV Standard*

Initial Calibrations included:
(Instrument name and calibration date)

ICAL 1: 50MSV1 C-2 6/20/11

ICAL 2: _____

ICAL 3: _____

ICAL 4: _____

Report Date : 21-Jun-2011 11:34

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Calibration File Names:
Level 1: \\50wintarget\chem\50MSV1.i\b062011a.b\b01.d
Level 2: \\50wintarget\chem\50MSV1.i\b062011a.b\b02.d
Level 3: \\50wintarget\chem\50MSV1.i\b062011a.b\b03.d
Level 4: \\50wintarget\chem\50MSV1.i\b062011a.b\b04.d
Level 5: \\50wintarget\chem\50MSV1.i\b062011a.b\b05.d
Level 6: \\50wintarget\chem\50MSV1.i\b062011a.b\b06.d
Level 7: \\50wintarget\chem\50MSV1.i\b062011a.b\b07.d
Level 8: \\50wintarget\chem\50MSV1.i\b062011a.b\b08.d

All CCC <30% RSD. RSW 6/21/11

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Dichlorodifluoromethane	+++++ 0.69450	+++++ 0.61603	0.48588	0.73177	0.67859	0.70541	AVRG		0.65203		13.82341
2 Chloromethane SPM	+++++ 0.47820	+++++ 0.52127	0.39185	0.51496	0.43974	0.49344	AVRG		0.47324		10.44940
3 Vinyl Chloride CCC	+++++ 87733	625 +++++	2852	7193	11606	32945	LINR	-0.01454	0.39923		0.99831

% RSD 2774

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
4 Bromomethane	+++++	+++++	369	1336	3089	12759					
	44627	69873					LINR	0.04104	0.17522		0.98670
5 Chloroethane	+++++	234	1081	3107	5357	14869					
	38914	68520					LINR	-0.06409	0.16349		0.99735
6 Trichlorofluoromethane	+++++	+++++	0.44325	0.62391	0.52646	0.54220					
	0.50974	0.46974					AVRG		0.51921		12.13565
28 1,2-dichlorotrifluoroethane	+++++	0.35488	0.29037	0.36827	0.40656	0.35451					
	0.31087	0.31631					AVRG		0.34311		11.57653
7 Diethyl ether	+++++	+++++	0.08214	0.08596	0.11176	0.09499					
	0.07918	0.08245					AVRG		0.08941		13.68583
8 Acrolein	324	664	2014	5354	7601	21149					
	57805	97755					LINR	-1.43867	0.01176		0.99571
9 1,1-Dichloroethene	+++++	0.25499	0.22300	0.28353	0.29071	0.25862					
CU	0.22318	0.24008					AVRG		0.25344		10.61697

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
10 1,1,2trichlorotrifluoroethane	+++++	0.24839	0.25771	0.31502	0.33278	0.28907					
	0.25426	0.27627					AVRG		0.28193		11.43898
11 Acetone	474	787	1434	2562	4999	10161					
	26378	50561					LINR	-0.40955	0.02358		0.99934
12 Iodomethane	+++++	+++++	809	2887	9005	32002					
	86144	+++++					LINR	0.13059	0.20202		0.99693
142 Acetonitrile	0.02807	0.03186	0.02824	0.03609	0.03395	0.03215					
	0.02766	0.02650					AVRG		0.03056		11.25139
13 Carbon Disulfide	0.73535	0.85511	0.82213	0.97082	0.95595	0.87857					
	0.71740	0.71814					AVRG		0.83168		12.26815
138 Methyl Acetate	+++++	98.00000	600	1221	2242	5156					
	13961	29875					LINR	0.02170	0.06965		0.99717
14 allyl chloride	0.28066	0.31859	0.28245	0.36089	0.33951	0.32149					
	0.27973	0.26498					AVRG		0.30604		11.11753

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 Methylene Chloride	+++++	0.28979	0.22733	0.24946	0.24487	0.21502					
	0.19513	0.21553					AVRG		0.23387		13.20850
16 Acrylonitrile	0.02625	0.03286	0.03529	0.03500	0.03541	0.03198					
	0.02829	0.02879					AVRG		0.03173		11.22026
27 Propionitrile	+++++	+++++	+++++	+++++	+++++	0.01255					
	+++++	+++++					AVRG		0.01255		0.000e+000
17 tert-Butyl Alcohol	+++++	+++++	+++++	+++++	0.00892	0.01088					
	0.01003	0.01137					AVRG		0.01030		10.44452
18 1,2-Dichloroethene (trans)	+++++	0.29099	0.28821	0.27965	0.28598	0.25214					
	0.22522	0.23318					AVRG		0.26505		10.48000
19 Methyl-tert-butyl ether	0.41782	0.53113	0.50149	0.45277	0.47782	0.41209					
	0.35896	0.36544					AVRG		0.43969		14.14480
20 n-Hexane	+++++	0.46468	0.43328	0.40676	0.54082	0.45618					
	0.39705	0.39774					AVRG		0.44236		11.59198

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
146 Chloroprene	+++++	0.44098	0.38981	0.52897	0.54647	0.49606						
	0.44847	0.45978					AVRG		0.47293		11.51201	
21 1,1-Dichloroethane SPU	0.39698	0.56218	0.54724	0.59943	0.62737	0.61838						
	0.54425	0.57421					AVRG		0.55875		12.95545	
23 Vinyl Acetate	0.32840	0.29939	0.29542	0.35506	0.37759	0.36166						
	0.30619	0.30409					AVRG		0.32847		9.79757	
25 1,2-Dichloroethene (cis)	+++++	0.25889	0.30406	0.35031	0.37161	0.34081						
	0.31348	0.32639					AVRG		0.32365		11.27789	
24 2,2-Dichloropropane	+++++	0.31679	0.35414	0.46089	0.49008	0.46020						
	0.43942	0.46796					AVRG		0.42707		15.27032	
26 2-Butanone	216	877	2328	4762	9750	21933						
	57810	117955					LINR	-0.05271	0.05512		0.99880	
143 Methacrylonitrile	+++++	+++++	0.01081	0.01364	0.01676	0.01722						
	0.01586	0.01762					AVRG		0.01532		17.12691	<-

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Bromochloromethane	+++++	+++++	0.17641	0.18900	0.20467	0.19821					
	0.15119	0.14067					AVRG		0.17669		14.63958
30 Tetrahydrofuran	0.13595	0.14069	0.05488	0.06332	0.05071	0.04299					
	0.03804	0.03860					AVRG		0.07065		60.35177 <-
31 Chloroform	0.40483	0.55828	0.55457	0.60521	0.64054	0.60506					
	0.55882	0.58285					AVRG		0.56377		12.55674
33 1,1,1-Trichloroethane	+++++	0.44848	0.39653	0.50721	0.54606	0.50014					
	0.48878	0.52849					AVRG		0.48796		10.40139
139 Cyclohexane	+++++	0.52768	0.48852	0.56998	0.62549	0.53702					
	0.47780	0.49709					AVRG		0.53194		9.79073
37 Isobutyl alcohol	+++++	+++++	0.15672	0.22865	0.23711	0.20578					
	0.19231	0.20607					AVRG		0.20444		13.97691
36 1,1-Dichloropropene	+++++	0.46228	0.41635	0.52992	0.52966	0.49948					
	0.42506	0.46574					AVRG		0.47550		9.70718

cu

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
35 Carbon Tetrachloride	+++++	608	2091	4835	10940	28430					
	78943	170895					LINR	0.06642	0.40113		0.99715
144 isopropyl acetate	+++++	+++++	+++++	+++++	+++++	0.03130					
	0.03092	0.02868					AVRG		0.03030		4.67632
147 2,2,4-Trimethylpentane	0.88036	1.15435	1.06735	1.36793	1.43490	1.23457					
	1.12658	1.19338					AVRG		1.18243		14.62684
38 Benzene	1.76556	1.29174	1.18443	1.33957	1.39764	1.31435					
	1.20170	1.25677					AVRG		1.34397		13.70659
39 1,2-Dichloroethane	+++++	0.19079	0.24582	0.29931	0.31266	0.29060					
	0.27439	0.28735					AVRG		0.27156		15.23123
41 Trichloroethene	+++++	0.28559	0.32160	0.39826	0.41347	0.40050					
	0.37956	0.39952					AVRG		0.37121		13.03080
140 Methylcyclohexane	+++++	0.43648	0.43484	0.52387	0.57274	0.52970					
	0.45610	0.46190					AVRG		0.48795		11.03177

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
42 1,2-Dichloropropane	+++++	0.26429	0.26900	0.32216	0.34751	0.31479						
	0.28648	0.30356					AVRG		0.30111		9.95389	
43 Dibromomethane	+++++	+++++	0.11276	0.14860	0.16564	0.15082						
	0.14036	0.15489					AVRG		0.14551		12.40765	
141 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++					AVRG		0.000e+000		0.000e+000	
44 Methyl methacrylate	+++++	+++++	0.08911	0.11881	0.13627	0.12807						
	0.11893	0.13491					AVRG		0.12102		14.32676	
45 Bromodichloromethane	+++++	0.30359	0.31091	0.37310	0.39148	0.39407						
	0.38580	0.42987					AVRG		0.36983		12.48229	
46 2-Chloroethyl vinyl ether	+++++	+++++	0.04283	0.05779	0.05813	0.04656						
	0.04012	0.04360					AVRG		0.04817		16.30520	<-
47 cis-1,3-Dichloropropene	+++++	0.39163	0.43370	0.50112	0.57569	0.52303						
	0.53469	0.53528					AVRG		0.49930		12.88804	

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
48 4-Methyl-2-Pentanone	0.18084	0.22293	0.19655	0.19966	0.21233	0.18459					
	0.17391	0.16630					AVRG		0.19214		10.06248
50 Toluene	+++++	+++++	13005	29379	54623	117233					
CU	292987	609338					LINR	-0.07159	1.50055		0.99862
51 trans-1,3-Dichloropropene	+++++	+++++	0.33662	0.36735	0.43103	0.40913					
	0.41917	0.47599					AVRG		0.40655		12.05690
52 Ethyl Methacrylate	+++++	0.28421	0.27952	0.33838	0.34726	0.31774					
	0.31538	0.32906					AVRG		0.31593		8.16566
53 1,1,2-Trichloroethane	+++++	0.18454	0.20728	0.22637	0.26122	0.22267					
	0.20949	0.22102					AVRG		0.21894		10.66107
54 Tetrachloroethene	+++++	0.56314	0.53905	0.58773	0.62135	0.53645					
	0.54241	0.52384					AVRG		0.55914		6.17311
55 1,3-Dichloropropane	0.26921	0.43354	0.40843	0.44500	0.45887	0.40555					
	0.37965	0.39039					AVRG		0.39883		14.77857

To RM 16.53

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
56 2-Hexanone	660	2404	5518	9267	20221	47073					
	123782	250087					LINR	-0.14794	0.12482		0.99963
57 Dibromochloromethane	+++++	+++++	0.20000	0.23448	0.26401	0.26147					
	0.27827	0.29792					AVRG		0.25603		13.46906
58 1,2-Dibromoethane	+++++	0.20427	0.22541	0.23873	0.26472	0.25082					
	0.23905	0.24696					AVRG		0.23856		8.12466
60 Chlorobenzene SPU	1.12547	1.22876	1.10451	1.17697	1.20114	1.09956					
	1.02212	1.03051					AVRG		1.12363		6.71312
61 1,1,1,2-Tetrachloroethane	+++++	0.27682	0.26439	0.30183	0.33312	0.32603					
	0.31747	0.34039					AVRG		0.30857		9.35951
62 Ethylbenzene CU	+++++	0.69662	0.64084	0.70338	0.71060	0.60194					
	0.55526	0.55579					AVRG		0.63777		10.69078
63 m&p-Xylene	+++++	5539	11326	22323	46769	102329					
	262053	490078					LINR	-0.20729	0.61290		0.99872

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
65 o-Xylene	0.79213	0.90440	0.76361	0.82464	0.81227	0.79376					
	0.70172	0.66682					AVRG		0.78242		9.41739
66 Styrene	1.13816	1.32737	1.20373	1.26509	1.27140	1.24035					
	1.03352	0.97452					AVRG		1.18177		10.45807
67 Bromoform	+++++	310	741	1653	3930	11128					
SPL	35865	80015					LINR	0.14613	0.46483		0.99562
68 Isopropylbenzene	2.16426	2.37652	2.17419	2.36205	2.40767	2.11645					
	1.90283	1.77346					AVRG		2.15968		10.59808
69 trans-1,4-Dichloro-2-butene	+++++	+++++	252	708	1730	4584					
	13247	26580					LINR	0.03448	0.06718		0.99996
145 n-amyl acetate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
72 1,1,2,2-Tetrachloroethane	+++++	0.73356	0.66752	0.64643	0.71116	0.65992					
SPL	0.66228	0.69643					AVRG		0.68247		4.65962

RF-0301

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
71 Bromobenzene	0.71390	0.87095	0.87282	0.76200	0.88897	0.83763					
	0.78574	0.70397					AVRG		0.80450		9.13284
73 1,2,3-Trichloropropane	+++++	0.57189	0.55662	0.61051	0.68574	0.65459					
	0.67340	0.73056					AVRG		0.64047		9.89173
74 n-Propylbenzene	4.85669	5.44428	4.94694	5.59760	5.45716	5.36686					
	4.75978	4.73518					AVRG		5.14556		6.88976
75 2-Chlorotoluene	2.75543	3.34914	2.74753	3.15793	3.13468	2.93915					
	2.87483	2.91794					AVRG		2.98458		7.08202
76 4-Chlorotoluene	0.67072	0.97541	0.85111	0.97572	1.01170	0.94138					
	0.94362	0.99465					AVRG		0.92054		12.18383
77 1,3,5-Trimethylbenzene	3.48088	3.39123	3.20174	3.51690	3.66266	3.35066					
	3.16383	3.00664					AVRG		3.34682		6.37739
78 tert-Butylbenzene	3.33834	3.89364	3.44689	3.91298	4.08836	3.73707					
	3.63157	3.55737					AVRG		3.70078		6.88864

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
79 1,2,4-Trimethylbenzene	4.63524	3.80144	3.18768	3.68311	3.58764	3.25118					
	3.10483	3.11635					AVRG		3.54593		14.56351
80 sec-Butylbenzene	3.98615	5.12360	4.41897	5.06648	5.42800	4.87113					
	4.65704	4.47250					AVRG		4.75298		9.71563
81 1,3-Dichlorobenzene	1.67490	2.23944	1.89430	2.06705	2.14542	1.94297					
	1.90001	1.90866					AVRG		1.97159		8.88852
83 p-Isopropyltoluene	3.10670	3.95243	3.46944	3.84932	4.10749	3.67399					
	3.35934	3.28992					AVRG		3.60108		9.75515
84 1,4-Dichlorobenzene	1.74999	2.13055	1.77836	1.91331	1.98320	1.82052					
	1.74653	1.84086					AVRG		1.87041		7.11344
86 n-Butylbenzene	3.20979	3.93640	3.42619	4.25667	4.27682	3.97298					
	3.87445	3.73564					AVRG		3.83612		9.71266
85 1,2-Dichlorobenzene	1.40508	1.96152	1.59079	1.77158	1.82030	1.63181					
	1.60444	1.59646					AVRG		1.67275		10.24183

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
88 1,2,4-Trichlorobenzene	1.28926	1.54530	1.36528	1.50877	1.58231	1.44091					
	1.50473	1.54431					AVRG		1.47261		6.83605
91 1,2,3-Trichlorobenzene	0.89981	1.30612	1.13207	1.14371	1.21234	1.16075					
	1.18244	1.24303					AVRG		1.16003		10.31529
87 1,2-Dibromo-3-chloropropane	+++++	+++++	394	259	1017	2795					
	8642	19838					LINR	0.18065	0.11573		0.99411
89 Hexachlorobutadiene	0.89090	1.15246	0.99729	1.16285	1.26967	1.11185					
	1.09942	1.13461					AVRG		1.10238		10.34595
90 Naphthalene	2.12162	2.45524	1.95373	1.97014	2.06657	1.85242					
	1.92214	2.08212					AVRG		2.05300		9.04947
92 2,methyl-naphthalene	1.36181	1.43974	1.07052	1.12308	1.22099	1.17066					
	1.20904	1.32411					AVRG		1.23999		10.12457
$ 32 Dibromofluoromethane (S)	0.22510	0.22047	0.22040	0.23311	0.22396	0.22733					
	0.22491	0.22293					AVRG		0.22478		1.82553

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Compound	1.0000 Level 1 / 150.0000 Level 7	2.0000 Level 2 / 300.0000 Level 8	5.0000 Level 3	10.0000 Level 4	20.0000 Level 5	50.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 49 Toluene-d8	1.16405	1.19336	1.20443	1.17206	1.10462	1.10906					
	1.10983	1.05235					AVRG		1.13872		4.62226
$ 70 4-Bromofluorobenzene	0.48309	0.49186	0.47871	0.45476	0.44837	0.46824					
	0.43792	0.44273					AVRG		0.46321		4.34215

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2011 15:00
End Cal Date : 20-JUN-2011 19:02
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Last Edit : 21-Jun-2011 11:31 rwrede

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b00bfb.d
Lab Smp Id: bfb050 34D-354 Client Smp ID: bfb050
Inj Date : 20-JUN-2011 14:26 MS Autotune Date: 21-AUG-1992 10:13
Operator : rsw Inst ID: 50MSV1.i
Smp Info : bfb 34D-354
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-bfb390.m
Meth Date : 31-May-2011 14:51 rwrede Quant Type: ISTD
Cal Date : 25-MAY-2001 16:00 Cal File: 0201002.D
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.113	8.417	(0.000)	95	26336			100.00- 100.00	100.00
8.113	8.417	(0.000)	50	4205			15.00- 40.00	15.97
8.113	8.417	(0.000)	75	11785			30.00- 60.00	44.75
8.113	8.417	(0.000)	96	1736			5.00- 9.00	6.59
8.113	8.417	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.113	8.417	(0.000)	174	25280			50.00- 100.00	95.99
8.113	8.417	(0.000)	175	1828			5.00- 9.00	7.23
8.113	8.417	(0.000)	176	25080			95.00- 101.00	99.21
8.113	8.417	(0.000)	177	1693			5.00- 9.00	6.75
8.113	8.417	(0.000)	95	26336			100.00- 100.00	100.00

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b00bfb.d

Date : 20-JUN-2011 14:26

Client ID: bfb050

Instrument: 50MSV1.i

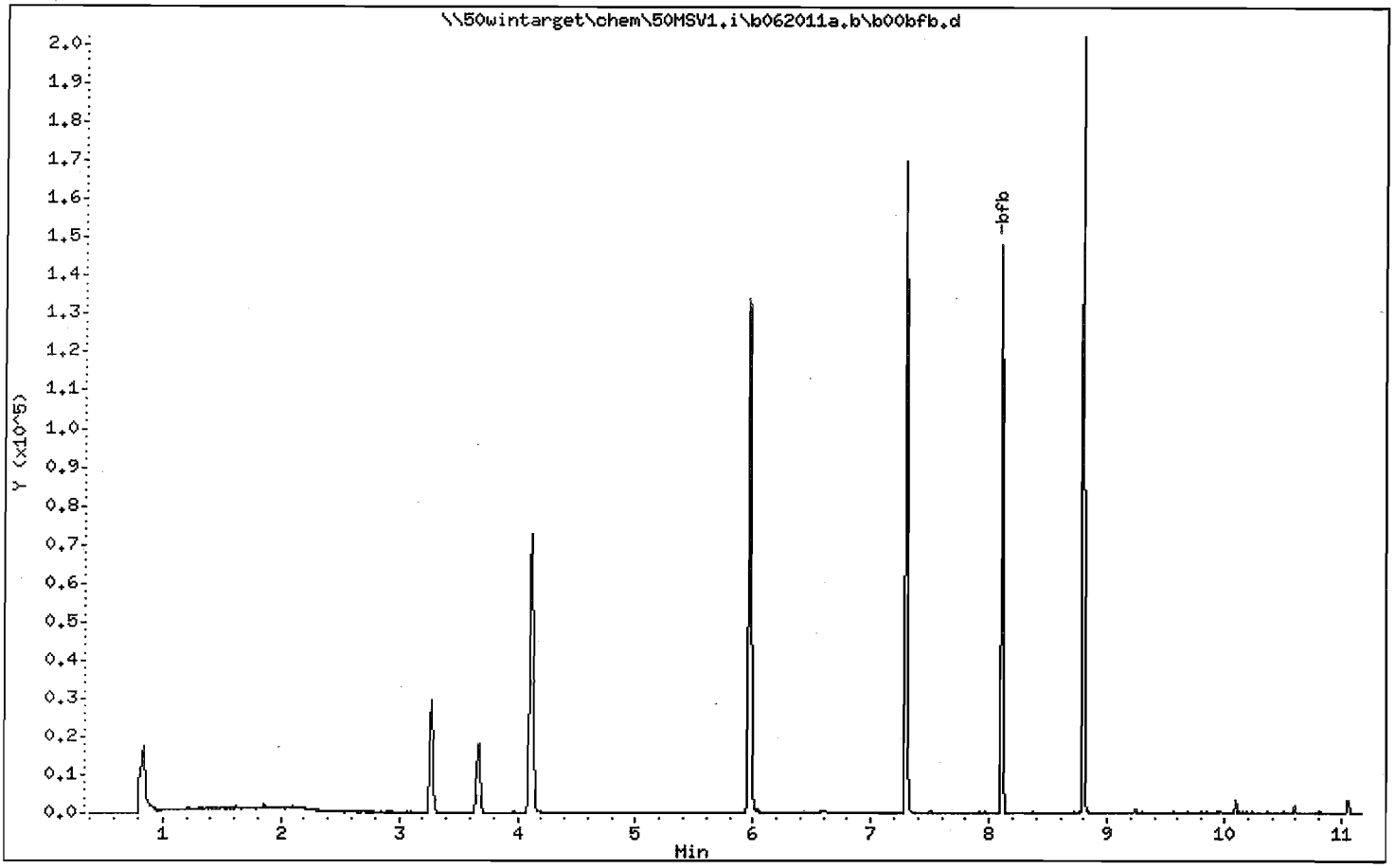
Sample Info: bfb 34D-354

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b00bfb.d

Date : 20-JUN-2011 14:26

Client ID: bfb050

Instrument: 50MSV1.i

Sample Info: bfb 34D-354

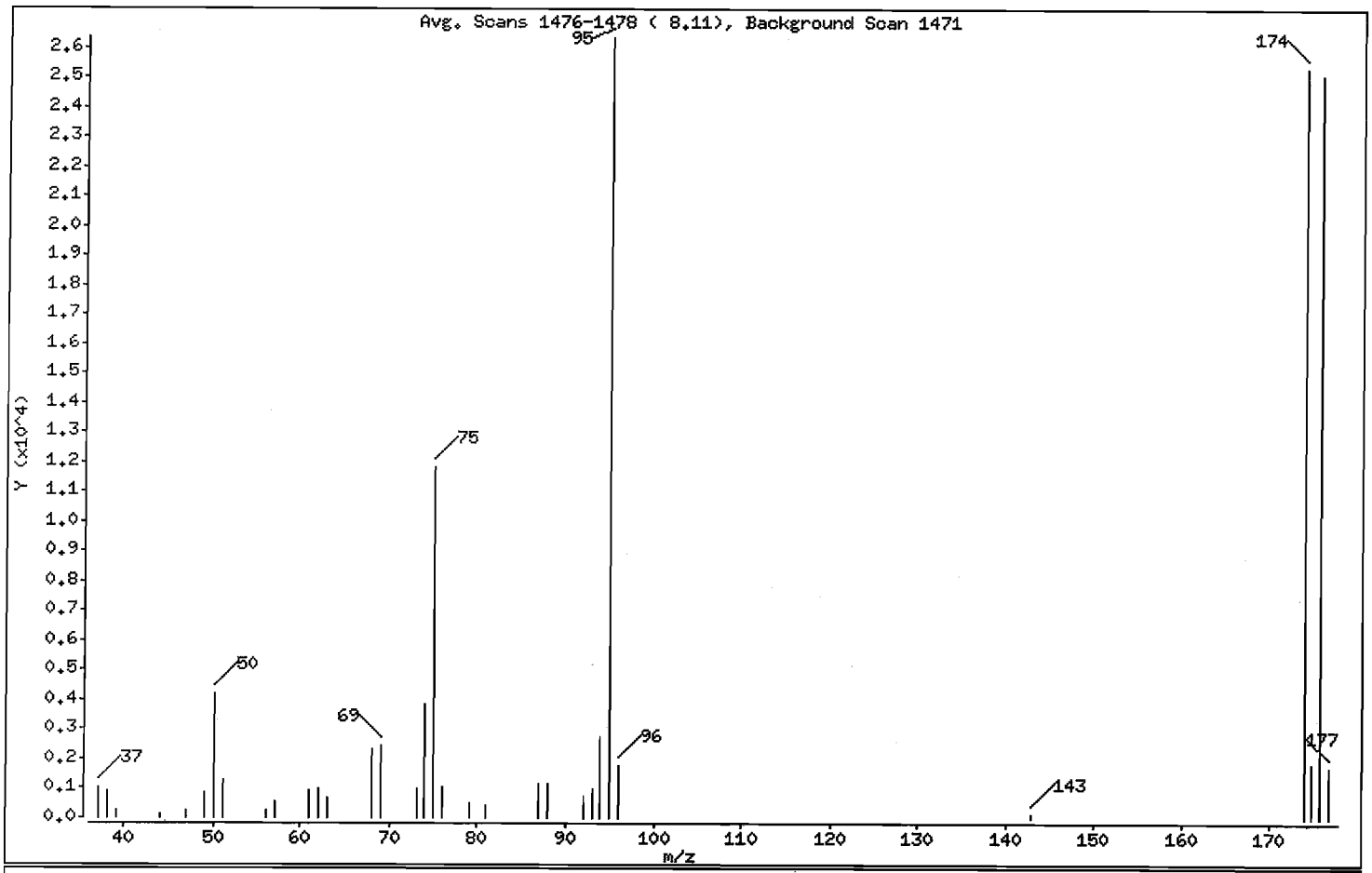
Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.97
75	30.00 - 60.00% of mass 95	44.75
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	95.99
175	5.00 - 9.00% of mass 174	6.94 (7.23)
176	95.00 - 101.00% of mass 174	95.23 (99.21)
177	5.00 - 9.00% of mass 176	6.43 (6.75)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b00bfb.d

Date : 20-JUN-2011 14:26

Client ID: bfb050

Instrument: 50MSV1.i

Sample Info: bfb 34D-354

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00

Data File: b00bfb.d

Spectrum: Avg. Scans 1476-1478 (8.11), Background Scan 1471

Location of Maximum: 95.00

Number of points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1044	57.00	544	76.00	1055	96.00	1736
38.00	919	61.00	933	79.00	480	143.00	105
39.00	258	62.00	954	81.00	415	174.00	25280
44.00	101	63.00	672	87.00	1175	175.00	1828
47.00	230	68.00	2295	88.00	1142	176.00	25080
49.00	842	69.00	2440	92.00	704	177.00	1693
50.00	4205	73.00	953	93.00	944		
51.00	1278	74.00	3827	94.00	2719		
56.00	244	75.00	11785	95.00	26336		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b01.d
Lab Smp Id: 1ppb 34D-444/446 Client Smp ID: 1ppb
Inj Date : 20-JUN-2011 15:00
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 1ppb 34D-444/446
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede Quant Type: ISTD
Cal Date : 17-JUN-2011 20:08 Cal File: b08.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.916	0.918	(0.223)	282	1.00000	0.261 (QM)
2 Chloromethane	50	0.691	0.996	(0.168)	0	1.00000	(TQM)
3 Vinyl Chloride	62	1.047	1.043	(0.254)	116	1.00000	(QM)
6 Trichlorofluoromethane	101	1.350	1.352	(0.328)	411	1.00000	0.478 (M)
28 1,2-dichlorotrifluoroethane	67	1.471	1.472	(0.357)	379	1.00000	0.667 (QM)
8 Acrolein	56	1.544	1.540	(0.375)	324	20.0000	(M)
9 1,1-Dichloroethene	96	1.601	1.603	(0.389)	239	1.00000	0.570 (QM)
10 1,1,2trichlorotrifluoroethane	101	1.596	1.597	(0.388)	112	1.00000	0.240 (QM)
11 Acetone	43	1.617	1.618	(0.393)	474	5.00000	(M)
142 Acetonitrile	41	1.790	1.786	(0.435)	929	20.0000	18.4 (QM)
13 Carbon Disulfide	76	1.732	1.733	(0.421)	2434	2.00000	1.77 (M)
14 allyl chloride	41	1.790	1.786	(0.435)	929	2.00000	1.83 (QM)
15 Methylene Chloride	84	1.858	1.859	(0.451)	679	1.00000	1.75 (QM)
16 Acrylonitrile	53	1.994	2.000	(0.484)	869	20.0000	16.5 (M)
18 1,2-Dichloroethene (trans)	96	2.030	2.026	(0.493)	210	1.00000	0.479 (QM)
19 Methyl-tert-butyl ether	73	2.025	2.026	(0.492)	1383	2.00000	1.90 (TM)
20 n-Hexane	57	2.208	2.209	(0.536)	359	1.00000	0.490 (M)
146 Chloroprene	53	2.386	2.387	(0.580)	479	1.00000	0.612 (QM)
21 1,1-Dichloroethane	63	2.313	2.314	(0.562)	657	1.00000	0.710 (QM)
23 Vinyl Acetate	43	2.344	2.345	(0.569)	2174	4.00000	4.00 (M)
25 1,2-Dichloroethene (cis)	96	2.799	2.790	(0.680)	99	1.00000	0.185 (QM)
24 2,2-Dichloropropane	77	2.794	2.790	(0.679)	421	1.00000	0.596 (M)
26 2-Butanone	43	2.804	2.800	(0.681)	216	5.00000	(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	30 Tetrahydrofuran	42	3.087	3.083	(0.750)	225	1.00000	1.92(QM)
	31 Chloroform	83	3.108	3.104	(0.755)	670	1.00000	0.718
$	32 Dibromofluoromethane (S)	113	3.275	3.276	(0.795)	18627	50.0000	50.1
	33 1,1,1-Trichloroethane	97	3.296	3.308	(0.801)	318	1.00000	0.394(QM)
	139 Cyclohexane	56	3.374	3.376	(0.820)	317	1.00000	0.360(QM)
	36 1,1-Dichloropropene	75	3.495	3.496	(0.849)	335	1.00000	0.426(QM)
	147 2,2,4-Trimethylpentane	57	3.882	3.883	(0.943)	1457	1.00000	0.744(QM)
	38 Benzene	78	3.751	3.758	(0.911)	2922	1.00000	1.31(M)
*	40 Fluorobenzene	96	4.117	4.118	(1.000)	82750	50.0000	
	41 Trichloroethene	95	4.577	4.579	(1.112)	102	1.00000	0.166(QM)
	140 Methylcyclohexane	55	4.797	4.798	(1.165)	469	1.00000	0.581(QM)
	45 Bromodichloromethane	83	5.173	5.170	(1.257)	96	1.00000	0.157(QM)
	47 cis-1,3-Dichloropropene	75	5.686	5.687	(0.779)	432	1.00000	0.610(QM)
	48 4-Methyl-2-Pentanone	43	5.880	5.881	(0.806)	1283	5.00000	4.70(M)
$	49 Toluene-d8	98	5.974	5.975	(0.819)	82587	50.0000	51.1
	50 Toluene	91	6.047	6.048	(0.829)	13130	1.00000	2.59
	51 trans-1,3-Dichloropropene	75	6.308	6.305	(0.865)	323	1.00000	0.560(QM)
	52 Ethyl Methacrylate	69	6.444	6.441	(0.883)	225	1.00000	0.502(M)
	54 Tetrachloroethene	166	6.612	6.613	(0.906)	455	1.00000	0.573(QM)
	55 1,3-Dichloropropane	76	6.638	6.634	(0.910)	382	1.00000	0.675(QM)
	56 2-Hexanone	43	6.743	6.739	(0.924)	660	5.00000	(M)
*	59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	70948	50.0000	
	60 Chlorobenzene	112	7.318	7.319	(1.003)	1597	1.00000	1.00
	61 1,1,1,2-Tetrachloroethane	131	7.386	7.387	(1.012)	212	1.00000	0.484(QM)
	62 Ethylbenzene	106	7.412	7.413	(1.016)	1682	1.00000	1.86(Q)
	63 m&p-Xylene	106	7.501	7.502	(1.028)	5942	2.00000	(M)
	65 o-Xylene	106	7.773	7.774	(1.065)	1124	1.00000	1.01(Q)
	66 Styrene	104	7.783	7.785	(1.067)	1615	1.00000	0.963
	68 Isopropylbenzene	105	8.019	8.020	(1.099)	3071	1.00000	1.00
$	70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	34274	50.0000	52.1
	72 1,1,2,2-Tetrachloroethane	83	8.207	8.208	(0.933)	221	1.00000	0.412(QM)
	71 Bromobenzene	77	8.202	8.203	(1.124)	1013	1.00000	0.887
	73 1,2,3-Trichloropropane	75	8.228	8.229	(0.936)	119	1.00000	0.236(QM)
	74 n-Propylbenzene	91	8.275	8.276	(0.941)	3816	1.00000	0.944
	75 2-Chlorotoluene	91	8.322	8.323	(0.946)	2165	1.00000	0.923
	76 4-Chlorotoluene	126	8.327	8.323	(0.947)	527	1.00000	0.729(Q)
	77 1,3,5-Trimethylbenzene	105	8.380	8.381	(0.953)	2735	1.00000	1.04
	78 tert-Butylbenzene	119	8.573	8.569	(0.975)	2623	1.00000	0.902
	79 1,2,4-Trimethylbenzene	105	8.599	8.595	(0.978)	3642	1.00000	1.31
	80 sec-Butylbenzene	105	8.693	8.695	(0.989)	3132	1.00000	0.839
	81 1,3-Dichlorobenzene	146	8.756	8.758	(0.996)	1316	1.00000	0.850
	83 p-Isopropyltoluene	119	8.777	8.773	(0.998)	2441	1.00000	0.863
*	82 1,4-Dichlorobenzene-d4	152	8.793	8.794	(1.000)	39286	50.0000	(Q)
	84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	1375	1.00000	0.936
	86 n-Butylbenzene	91	8.997	8.993	(1.023)	2522	1.00000	0.837
	85 1,2-Dichlorobenzene	146	9.007	9.009	(1.024)	1104	1.00000	0.840
	88 1,2,4-Trichlorobenzene	180	9.828	9.824	(1.118)	1013	1.00000	0.875(M)
	91 1,2,3-Trichlorobenzene	180	10.085	10.086	(1.147)	707	1.00000	0.776(M)
	89 Hexachlorobutadiene	225	9.907	9.908	(1.127)	700	1.00000	0.808
	90 Naphthalene	128	9.959	9.960	(1.133)	1667	1.00000	1.03(M)
	92 2,methyl-naphthalene	142	10.581	10.583	(1.203)	1070	1.00000	1.10

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b01.d
Lab Smp Id: 1ppb 34D-444/446
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: 1ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	82750	9.93
59 Chlorobenzene-d5	69740	34870	139480	70948	1.73
82 1,4-Dichlorobenze	33195	16598	66390	39286	18.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.01
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb 34D-444/446
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	0.261	
74-87-3	Chloromethane	0.000	
75-01-4	Vinyl Chloride	0.000	
75-69-4	Trichlorofluoromethane	0.478	
354-23-4	1,2-dichlorotrifluoroethane	0.667	
107-02-8	Acrolein	0.000	
75-35-4	1,1-Dichloroethene	0.570	
76-13-1	1,1,2trichlorotrifluoroethan	0.240	
67-64-1	Acetone	0.000	
75-05-8	Acetonitrile	18.4	
75-15-0	Carbon Disulfide	1.77	
107-05-1	allyl chloride	1.83	
75-09-2	Methylene Chloride	1.75	
107-13-1	Acrylonitrile	16.5	
156-60-5	1,2-Dichloroethene (trans)	0.479	
1634-04-4	Methyl-tert-butyl ether	1.90	
	n-Hexane	0.490	
126-99-8	Chloroprene	0.612	
75-34-3	1,1-Dichloroethane	0.710	
108-05-4	Vinyl Acetate	4.00	
156-59-2	1,2-Dichloroethene (cis)	0.185	
594-20-7	2,2-Dichloropropane	0.596	
78-93-3	2-Butanone	0.000	
	Tetrahydrofuran	1.92	
67-66-3	Chloroform	0.718	
71-55-6	1,1,1-Trichloroethane	0.394	
110-82-7	Cyclohexane	0.360	
563-58-6	1,1-Dichloropropene	0.426	
540-84-1	2,2,4-Trimethylpentane	0.744	
71-43-2	Benzene	1.31	
79-01-6	Trichloroethene	0.166	
108-87-2	Methylcyclohexane	0.581	
75-27-4	Bromodichloromethane	0.157	
10061-01-5	cis-1,3-Dichloropropene	0.610	
108-10-1	4-Methyl-2-Pentanone	4.70	
108-88-3	Toluene	2.59	
10061-02-6	trans-1,3-Dichloropropene	0.560	
	Ethyl Methacrylate	0.502	
127-18-4	Tetrachloroethene	0.573	
142-28-9	1,3-Dichloropropane	0.675	
591-78-6	2-Hexanone	0.000	
108-90-7	Chlorobenzene	1.00	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1ppb 34D-444/446
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

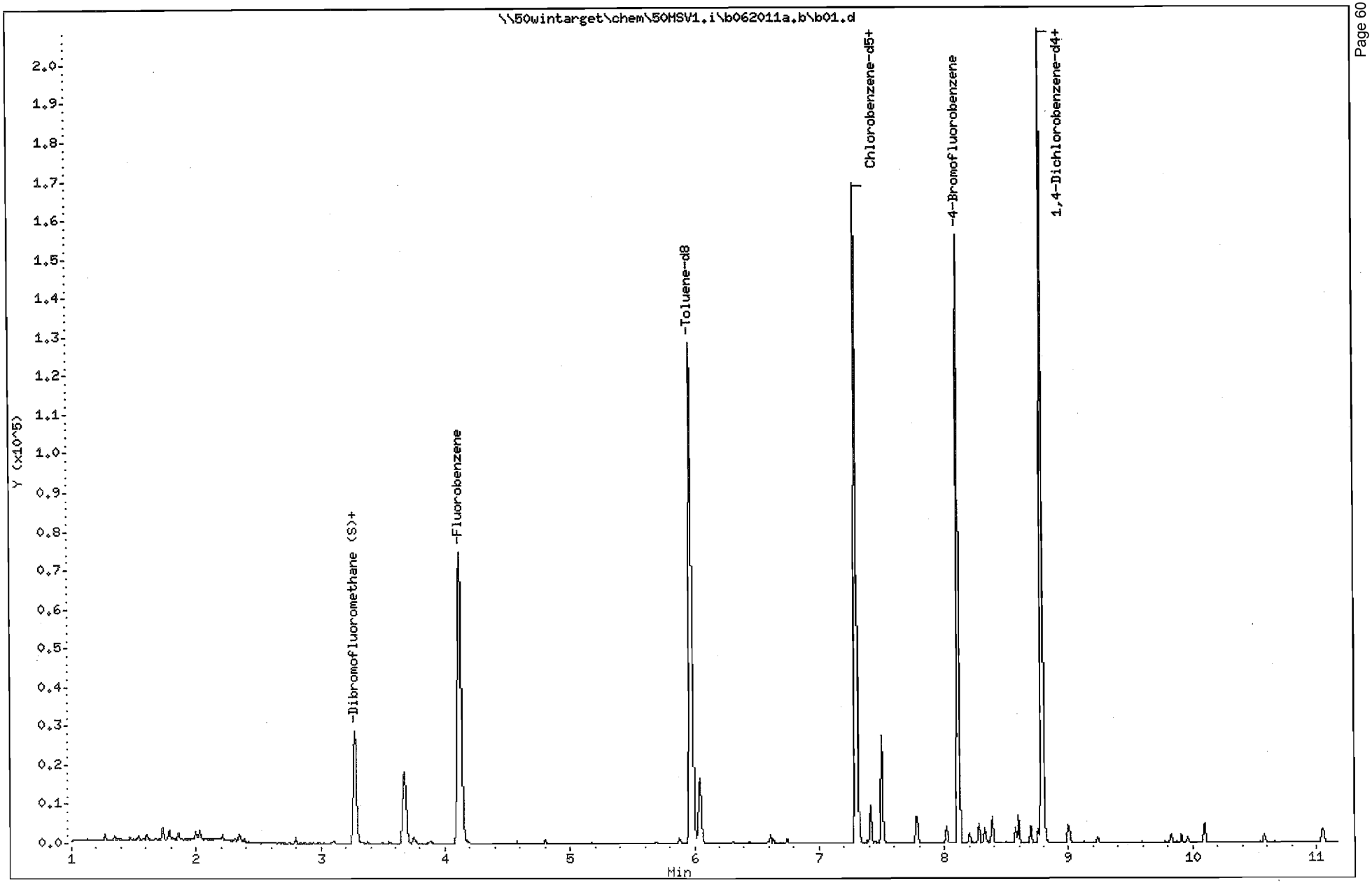
Client SDG: b062011a.b
Client Smp ID: 1ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.484	
100-41-4	Ethylbenzene	1.86	
7816-60-0	m&p-Xylene	0.000	
95-47-6	o-Xylene	1.01	
100-42-5	Styrene	0.963	
98-82-8	Isopropylbenzene	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	0.412	
108-86-1	Bromobenzene	0.887	
96-18-4	1,2,3-Trichloropropane	0.236	
103-65-1	n-Propylbenzene	0.944	
95-49-8	2-Chlorotoluene	0.923	
106-43-4	4-Chlorotoluene	0.729	
108-67-8	1,3,5-Trimethylbenzene	1.04	
98-06-6	tert-Butylbenzene	0.902	
95-63-6	1,2,4-Trimethylbenzene	1.31	
135-98-8	sec-Butylbenzene	0.839	
541-73-1	1,3-Dichlorobenzene	0.850	
99-87-6	p-Isopropyltoluene	0.863	
106-46-7	1,4-Dichlorobenzene	0.936	
104-51-8	n-Butylbenzene	0.837	
95-50-1	1,2-Dichlorobenzene	0.840	
120-82-1	1,2,4-Trichlorobenzene	0.875	
87-61-6	1,2,3-Trichlorobenzene	0.776	
87-68-3	Hexachlorobutadiene	0.808	
91-20-3	Naphthalene	1.03	
	2,methyl-naphthalene	1.10	
1868-53-7	Dibromofluoromethane (S)	50.1	
2037-26-5	Toluene-d8	51.1	
460-00-4	4-Bromofluorobenzene	52.1	

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b01.d
Date : 20-JUN-2011 15:00
Client ID: 1ppb
Sample Info: 1ppb 34D-444/446
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b01.d

Date : 20-JUN-2011 15:00

Client ID: 1ppb

Instrument: 50MSV1.i

Sample Info: 1ppb 34D-444/446

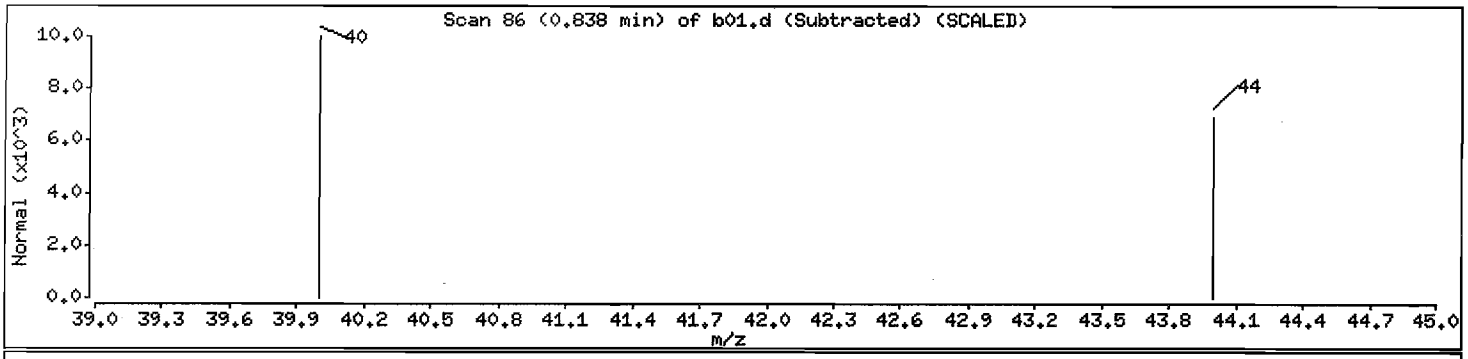
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b02.d
Lab Smp Id: 2ppb Client Smp ID: 2ppb
Inj Date : 20-JUN-2011 15:36
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 2ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede Quant Type: ISTD
Cal Date : 17-JUN-2011 20:08 Cal File: b08.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.917	0.918	(0.223)	1229	2.00000	1.13 (M)
2 Chloromethane	50	1.000	0.996	(0.243)	956	2.00000	1.21 (TM)
3 Vinyl Chloride	62	1.042	1.043	(0.253)	625	2.00000	0.212 (TM)
4 Bromomethane	94	0.885	1.190	(0.215)	0	2.00000	2.05 (TQM)
5 Chloroethane	64	1.236	1.237	(0.300)	234	2.00000	(QM)
6 Trichlorofluoromethane	101	1.351	1.352	(0.328)	982	2.00000	1.13 (M)
28 1,2-dichlorotrifluoroethane	67	1.471	1.472	(0.357)	1183	2.00000	2.07 (QM)
7 Diethyl ether	74	1.476	1.477	(0.359)	118	2.00000	0.792 (QM)
8 Acrolein	56	1.539	1.540	(0.374)	664	40.0000	
9 1,1-Dichloroethene	96	1.602	1.603	(0.389)	850	2.00000	2.01 (Q)
10 1,1,2trichlorotrifluoroethane	101	1.591	1.597	(0.387)	828	2.00000	1.76 (Q)
11 Acetone	43	1.612	1.618	(0.392)	787	10.0000	(M)
142 Acetonitrile	41	1.785	1.786	(0.434)	2124	40.0000	41.7 (QM)
13 Carbon Disulfide	76	1.733	1.733	(0.421)	5701	4.00000	4.11 (M)
138 Methyl Acetate	43	1.790	1.791	(0.435)	98	2.00000	1.93 (M)
14 allyl chloride	41	1.785	1.786	(0.434)	2124	4.00000	4.16 (M)
15 Methylene Chloride	84	1.858	1.859	(0.451)	966	2.00000	2.48 (M)
16 Acrylonitrile	53	1.994	2.000	(0.484)	2191	40.0000	41.4 (M)
18 1,2-Dichloroethene (trans)	96	2.025	2.026	(0.492)	970	2.00000	2.20 (Q)
19 Methyl-tert-butyl ether	73	2.025	2.026	(0.492)	3541	4.00000	4.83 (T)
20 n-Hexane	57	2.208	2.209	(0.536)	1549	2.00000	2.10 (M)
146 Chloroprene	53	2.381	2.387	(0.578)	1470	2.00000	1.86 (QM)
21 1,1-Dichloroethane	63	2.308	2.314	(0.561)	1874	2.00000	2.01 (M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	23 Vinyl Acetate	43	2.339	2.345	(0.568)	3992	8.00000	7.29(M)
	25 1,2-Dichloroethene (cis)	96	2.789	2.790	(0.677)	863	2.00000	1.60(Q)
	24 2,2-Dichloropropane	77	2.789	2.790	(0.677)	1056	2.00000	1.48(M)
	26 2-Butanone	43	2.794	2.800	(0.679)	877	10.0000	6.91(M)
	29 Bromochloromethane	49	3.014	3.015	(0.732)	239	2.00000	0.812(QM)
	30 Tetrahydrofuran	42	3.071	3.083	(0.746)	469	2.00000	3.98(M)
	31 Chloroform	83	3.098	3.104	(0.752)	1861	2.00000	1.98
$	32 Dibromofluoromethane (S)	113	3.270	3.276	(0.794)	18373	50.0000	49.0
	33 1,1,1-Trichloroethane	97	3.302	3.308	(0.802)	1495	2.00000	1.84(Q)
	139 Cyclohexane	56	3.370	3.376	(0.818)	1759	2.00000	1.98(Q)
	36 1,1-Dichloropropene	75	3.495	3.496	(0.849)	1541	2.00000	1.94(M)
	35 Carbon Tetrachloride	117	3.495	3.501	(0.849)	608	2.00000	4.23(QM)
	147 2,2,4-Trimethylpentane	57	3.887	3.883	(0.944)	3848	2.00000	1.95(M)
	38 Benzene	78	3.746	3.758	(0.910)	4306	2.00000	1.92(M)
	39 1,2-Dichloroethane	62	3.767	3.768	(0.915)	636	2.00000	1.40(QM)
*	40 Fluorobenzene	96	4.117	4.118	(1.000)	83337	50.0000	(M)
	41 Trichloroethene	95	4.573	4.579	(1.110)	952	2.00000	1.54(Q)
	140 Methylcyclohexane	55	4.797	4.798	(1.165)	1455	2.00000	1.79(M)
	42 1,2-Dichloropropane	63	4.834	4.835	(1.174)	881	2.00000	1.76(M)
	45 Bromodichloromethane	83	5.169	5.170	(1.255)	1012	2.00000	1.64(QM)
	47 cis-1,3-Dichloropropene	75	5.687	5.687	(0.779)	1112	2.00000	1.57(M)
	48 4-Methyl-2-Pentanone	43	5.880	5.881	(0.806)	3165	10.0000	11.6
$	49 Toluene-d8	98	5.974	5.975	(0.819)	84712	50.0000	52.4
	50 Toluene	91	6.047	6.048	(0.829)	9658	2.00000	0.954
	51 trans-1,3-Dichloropropene	75	6.309	6.305	(0.865)	823	2.00000	1.42(M)
	52 Ethyl Methacrylate	69	6.440	6.441	(0.882)	807	2.00000	1.80(M)
	53 1,1,2-Trichloroethane	83	6.482	6.482	(0.888)	524	2.00000	1.68(QM)
	54 Tetrachloroethene	166	6.612	6.613	(0.906)	1599	2.00000	2.01(QM)
	55 1,3-Dichloropropane	76	6.638	6.634	(0.910)	1231	2.00000	2.17
	56 2-Hexanone	43	6.743	6.739	(0.924)	2404	10.0000	6.17(M)
	57 Dibromochloromethane	129	6.832	6.833	(0.936)	545	2.00000	1.50
	58 1,2-Dibromoethane	107	6.916	6.917	(0.948)	580	2.00000	1.71
*	59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	70986	50.0000	
	60 Chlorobenzene	112	7.318	7.319	(1.003)	3489	2.00000	2.19
	61 1,1,1,2-Tetrachloroethane	131	7.386	7.387	(1.012)	786	2.00000	1.79(Q)
	62 Ethylbenzene	106	7.412	7.413	(1.016)	1978	2.00000	2.18
	63 m&p-Xylene	106	7.501	7.502	(1.028)	5539	4.00000	(M)
	65 o-Xylene	106	7.773	7.774	(1.065)	2568	2.00000	2.31(Q)
	66 Styrene	104	7.784	7.785	(1.067)	3769	2.00000	2.25
	67 Bromoform	173	7.899	7.900	(0.898)	310	2.00000	8.20(QM)
	68 Isopropylbenzene	105	8.019	8.020	(1.099)	6748	2.00000	2.20
$	70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	34915	50.0000	53.1
	72 1,1,2,2-Tetrachloroethane	83	8.207	8.208	(0.933)	1098	2.00000	2.15(QM)
	71 Bromobenzene	77	8.202	8.203	(1.124)	2473	2.00000	2.16
	73 1,2,3-Trichloropropane	75	8.228	8.229	(0.936)	856	2.00000	1.78(M)
	74 n-Propylbenzene	91	8.275	8.276	(0.941)	8149	2.00000	2.12
	75 2-Chlorotoluene	91	8.323	8.323	(0.946)	5013	2.00000	2.24
	76 4-Chlorotoluene	126	8.323	8.323	(0.946)	1460	2.00000	2.12(Q)
	77 1,3,5-Trimethylbenzene	105	8.380	8.381	(0.953)	5076	2.00000	2.03
	78 tert-Butylbenzene	119	8.574	8.569	(0.975)	5828	2.00000	2.10
	79 1,2,4-Trimethylbenzene	105	8.600	8.595	(0.978)	5690	2.00000	2.14
	80 sec-Butylbenzene	105	8.694	8.695	(0.989)	7669	2.00000	2.16
	81 1,3-Dichlorobenzene	146	8.757	8.758	(0.996)	3352	2.00000	2.27
	83 p-Isopropyltoluene	119	8.778	8.773	(0.998)	5916	2.00000	2.20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.794	(1.000)	37420	50.0000	
84 1,4-Dichlorobenzene	146	8.809	8.805	(1.002)	3189	2.00000	2.28
86 n-Butylbenzene	91	8.997	8.993	(1.023)	5892	2.00000	2.05
85 1,2-Dichlorobenzene	146	9.008	9.009	(1.024)	2936	2.00000	2.34
88 1,2,4-Trichlorobenzene	180	9.829	9.824	(1.118)	2313	2.00000	2.10
91 1,2,3-Trichlorobenzene	180	10.085	10.086	(1.147)	1955	2.00000	2.25
89 Hexachlorobutadiene	225	9.912	9.908	(1.127)	1725	2.00000	2.09
90 Naphthalene	128	9.960	9.960	(1.133)	3675	2.00000	2.39
92 2,methyl-naphthalene	142	10.582	10.583	(1.203)	2155	2.00000	2.32

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b02.d
Lab Smp Id: 2ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: 2ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	83337	10.71
59 Chlorobenzene-d5	69740	34870	139480	70986	1.79
82 1,4-Dichlorobenze	33195	16598	66390	37420	12.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.00
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.00
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	1.13	
74-87-3	Chloromethane	1.21	
75-01-4	Vinyl Chloride	0.212	
74-83-9	Bromomethane	2.05	
75-00-3	Chloroethane	0.000	
75-69-4	Trichlorofluoromethane	1.13	
354-23-4	1,2-dichlorotrifluoroethane	2.07	
60-29-7	Diethyl ether	0.792	
107-02-8	Acrolein	0.000	
75-35-4	1,1-Dichloroethene	2.01	
76-13-1	1,1,2trichlorotrifluoroethan	1.76	
67-64-1	Acetone	0.000	
75-05-8	Acetonitrile	41.7	
75-15-0	Carbon Disulfide	4.11	
79-20-9	Methyl Acetate	1.93	
107-05-1	allyl chloride	4.16	
75-09-2	Methylene Chloride	2.48	
107-13-1	Acrylonitrile	41.4	
156-60-5	1,2-Dichloroethene (trans)	2.20	
1634-04-4	Methyl-tert-butyl ether	4.83	
----------	n-Hexane	2.10	
126-99-8	Chloroprene	1.86	
75-34-3	1,1-Dichloroethane	2.01	
108-05-4	Vinyl Acetate	7.29	
156-59-2	1,2-Dichloroethene (cis)	1.60	
594-20-7	2,2-Dichloropropane	1.48	
78-93-3	2-Butanone	6.91	
74-97-5	Bromochloromethane	0.812	
----------	Tetrahydrofuran	3.98	
67-66-3	Chloroform	1.98	
71-55-6	1,1,1-Trichloroethane	1.84	
110-82-7	Cyclohexane	1.98	
563-58-6	1,1-Dichloropropene	1.94	
56-23-5	Carbon Tetrachloride	4.23	
540-84-1	2,2,4-Trimethylpentane	1.95	
71-43-2	Benzene	1.92	
107-06-2	1,2-Dichloroethane	1.40	
79-01-6	Trichloroethene	1.54	
108-87-2	Methylcyclohexane	1.79	
78-87-5	1,2-Dichloropropane	1.76	
75-27-4	Bromodichloromethane	1.64	
10061-01-5	cis-1,3-Dichloropropene	1.57	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-10-1	4-Methyl-2-Pentanone	11.6	
108-88-3	Toluene	0.954	
10061-02-6	trans-1,3-Dichloropropene	1.42	
	Ethyl Methacrylate	1.80	
79-00-5	1,1,2-Trichloroethane	1.68	
127-18-4	Tetrachloroethene	2.01	
142-28-9	1,3-Dichloropropane	2.17	
591-78-6	2-Hexanone	6.17	
124-48-1	Dibromochloromethane	1.50	
106-93-4	1,2-Dibromoethane	1.71	
108-90-7	Chlorobenzene	2.19	
630-20-6	1,1,1,2-Tetrachloroethane	1.79	
100-41-4	Ethylbenzene	2.18	
7816-60-0	m&p-Xylene	0.000	
95-47-6	o-Xylene	2.31	
100-42-5	Styrene	2.25	
75-25-2	Bromoform	8.20	
98-82-8	Isopropylbenzene	2.20	
79-34-5	1,1,2,2-Tetrachloroethane	2.15	
108-86-1	Bromobenzene	2.16	
96-18-4	1,2,3-Trichloropropane	1.78	
103-65-1	n-Propylbenzene	2.12	
95-49-8	2-Chlorotoluene	2.24	
106-43-4	4-Chlorotoluene	2.12	
108-67-8	1,3,5-Trimethylbenzene	2.03	
98-06-6	tert-Butylbenzene	2.10	
95-63-6	1,2,4-Trimethylbenzene	2.14	
135-98-8	sec-Butylbenzene	2.16	
541-73-1	1,3-Dichlorobenzene	2.27	
99-87-6	p-Isopropyltoluene	2.20	
106-46-7	1,4-Dichlorobenzene	2.28	
104-51-8	n-Butylbenzene	2.05	
95-50-1	1,2-Dichlorobenzene	2.34	
120-82-1	1,2,4-Trichlorobenzene	2.10	
87-61-6	1,2,3-Trichlorobenzene	2.25	
87-68-3	Hexachlorobutadiene	2.09	
91-20-3	Naphthalene	2.39	
	2,methyl-naphthalene	2.32	
1868-53-7	Dibromofluoromethane (S)	49.0	
2037-26-5	Toluene-d8	52.4	
460-00-4	4-Bromofluorobenzene	53.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

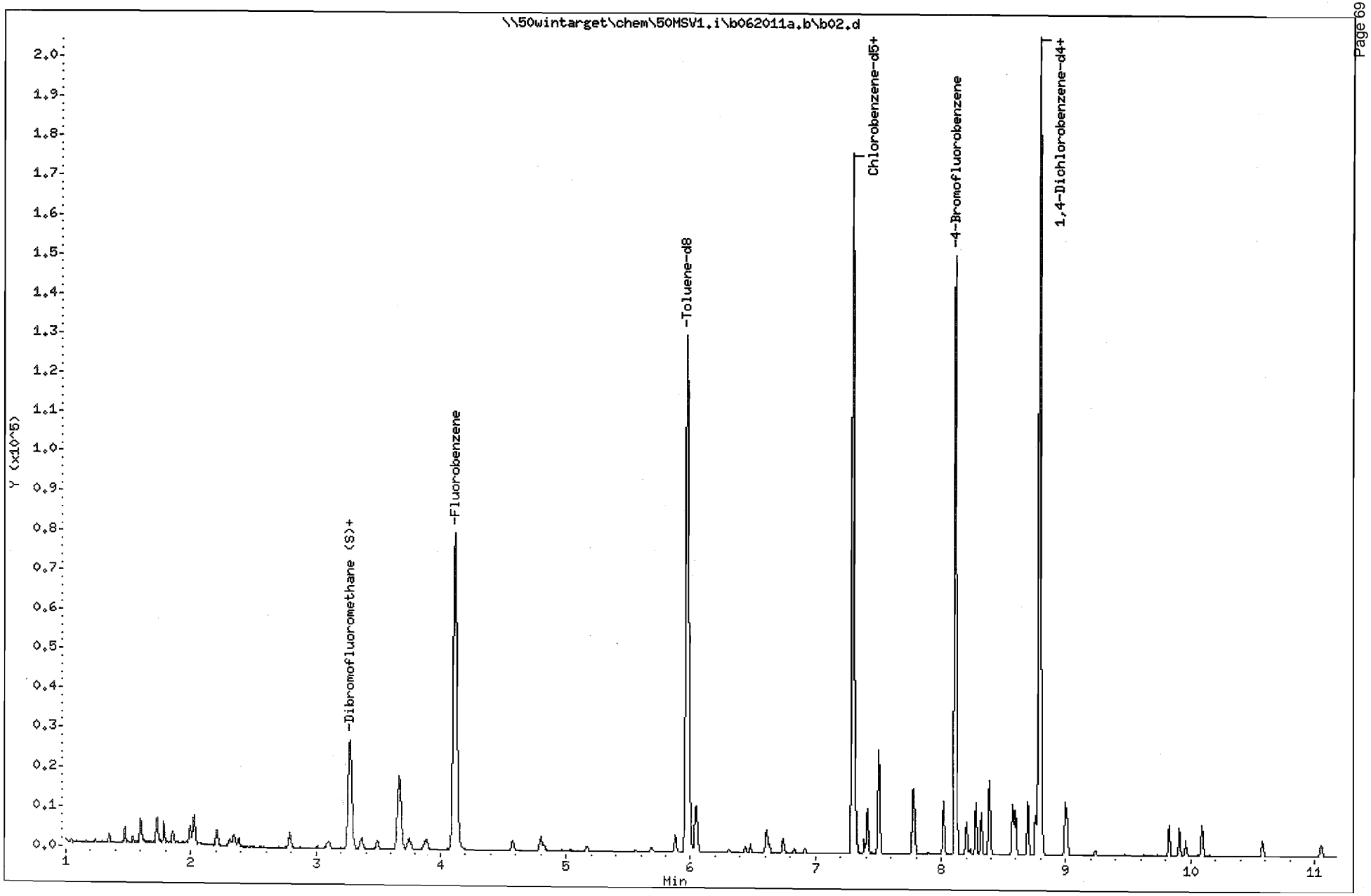
Client SDG: b062011a.b
Client Smp ID: 2ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b02.d
Date : 20-JUN-2011 15:36
Client ID: 2ppb
Sample Info: 2ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b02.d

Date : 20-JUN-2011 15:36

Client ID: 2ppb

Instrument: 50MSV1.i

Sample Info: 2ppb

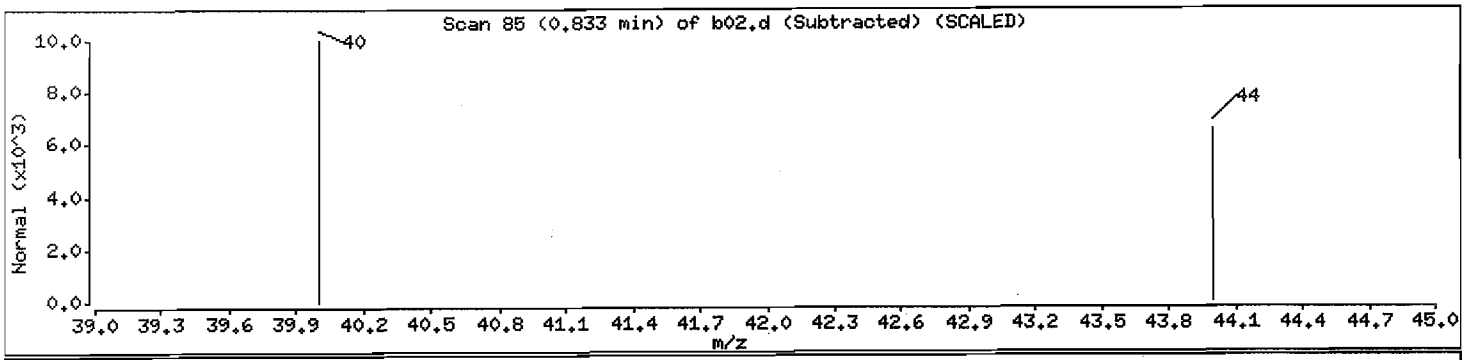
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b03.d
Lab Smp Id: 5ppb Client Smp ID: 5ppb
Inj Date : 20-JUN-2011 16:10
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede Quant Type: ISTD
Cal Date : 17-JUN-2011 20:08 Cal File: b08.d
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.918	0.918	(0.223)	4046	5.00000	3.72(T)
2 Chloromethane	50	0.997	0.996	(0.242)	3263	5.00000	4.14
3 Vinyl Chloride	62	1.044	1.043	(0.253)	2852	5.00000	3.56(T)
4 Bromomethane	94	1.195	1.190	(0.290)	369	5.00000	3.32(TQ)
5 Chloroethane	64	1.237	1.237	(0.300)	1081	5.00000	0.766
6 Trichlorofluoromethane	101	1.352	1.352	(0.328)	3691	5.00000	4.27
28 1,2-dichlorotrifluoroethane	67	1.473	1.472	(0.358)	2418	5.00000	4.23
7 Diethyl ether	74	1.478	1.477	(0.359)	684	5.00000	4.59(Q)
8 Acrolein	56	1.541	1.540	(0.374)	2014	100.000	30.9
9 1,1-Dichloroethene	96	1.603	1.603	(0.389)	1857	5.00000	4.40
10 1,1,2trichlorotrifluoroethane	101	1.598	1.597	(0.388)	2146	5.00000	4.57
11 Acetone	43	1.614	1.618	(0.392)	1434	25.0000	16.0
12 Iodomethane	142	1.687	1.692	(0.410)	809	10.0000	8.93
142 Acetonitrile	41	1.786	1.786	(0.434)	4704	100.000	92.4(M)
13 Carbon Disulfide	76	1.734	1.733	(0.421)	13692	10.0000	9.88(M)
138 Methyl Acetate	43	1.792	1.791	(0.435)	600	5.00000	6.26(M)
14 allyl chloride	41	1.786	1.786	(0.434)	4704	10.0000	9.23(M)
15 Methylene Chloride	84	1.860	1.859	(0.452)	1893	5.00000	4.86
16 Acrylonitrile	53	1.996	2.000	(0.485)	5877	100.000	111
18 1,2-Dichloroethene (trans)	96	2.027	2.026	(0.492)	2400	5.00000	5.44
19 Methyl-tert-butyl ether	73	2.027	2.026	(0.492)	8352	10.0000	11.4
20 n-Hexane	57	2.210	2.209	(0.537)	3608	5.00000	4.90(M)
146 Chloroprene	53	2.383	2.387	(0.578)	3246	5.00000	4.12(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.315	2.314	(0.562)	4557	5.00000	4.90
	23 Vinyl Acetate	43	2.346	2.345	(0.570)	9840	20.0000	18.0
	25 1,2-Dichloroethene (cis)	96	2.791	2.790	(0.678)	2532	5.00000	4.70
	24 2,2-Dichloropropane	77	2.791	2.790	(0.678)	2949	5.00000	4.15
	26 2-Butanone	43	2.806	2.800	(0.681)	2328	25.0000	22.7(M)
	143 Methacrylonitrile	41	3.000	2.999	(0.728)	450	25.0000	17.6(QM)
	29 Bromochloromethane	49	3.010	3.015	(0.731)	1469	5.00000	4.99(QM)
	30 Tetrahydrofuran	42	3.089	3.083	(0.750)	457	5.00000	3.88(M)
	31 Chloroform	83	3.099	3.104	(0.752)	4618	5.00000	4.92
$	32 Dibromofluoromethane (S)	113	3.272	3.276	(0.794)	18353	50.0000	49.0
	33 1,1,1-Trichloroethane	97	3.303	3.308	(0.802)	3302	5.00000	4.06
	139 Cyclohexane	56	3.371	3.376	(0.818)	4068	5.00000	4.59
	37 Isobutyl alcohol	43	3.884	3.883	(0.943)	1305	5.00000	3.83(M)
	36 1,1-Dichloropropene	75	3.497	3.496	(0.849)	3467	5.00000	4.38
	35 Carbon Tetrachloride	117	3.497	3.501	(0.849)	2091	5.00000	6.45(Q)
	147 2,2,4-Trimethylpentane	57	3.889	3.883	(0.944)	8888	5.00000	4.51
	38 Benzene	78	3.753	3.758	(0.911)	9863	5.00000	4.41
	39 1,2-Dichloroethane	62	3.774	3.768	(0.916)	2047	5.00000	4.53(M)
*	40 Fluorobenzene	96	4.119	4.118	(1.000)	83272	50.0000	
	41 Trichloroethene	95	4.579	4.579	(1.112)	2678	5.00000	4.33
	140 Methylcyclohexane	55	4.804	4.798	(1.166)	3621	5.00000	4.46(Q)
	42 1,2-Dichloropropane	63	4.830	4.835	(1.173)	2240	5.00000	4.47(M)
	43 Dibromomethane	93	4.966	4.971	(1.206)	939	5.00000	3.87
	44 Methyl methacrylate	69	5.034	5.034	(1.222)	742	5.00000	3.68(QM)
	45 Bromodichloromethane	83	5.170	5.170	(1.255)	2589	5.00000	4.20(M)
	46 2-Chloroethyl vinyl ether	63	5.557	5.551	(0.761)	600	10.0000	8.89(QM)
	47 cis-1,3-Dichloropropene	75	5.688	5.687	(0.779)	3038	5.00000	4.34
	48 4-Methyl-2-Pentanone	43	5.882	5.881	(0.806)	6884	25.0000	25.6
$	49 Toluene-d8	98	5.976	5.975	(0.819)	84369	50.0000	52.9
	50 Toluene	91	6.044	6.048	(0.828)	13005	5.00000	2.61
	51 trans-1,3-Dichloropropene	75	6.305	6.305	(0.864)	2358	5.00000	4.14
	52 Ethyl Methacrylate	69	6.441	6.441	(0.882)	1958	5.00000	4.42(M)
	53 1,1,2-Trichloroethane	83	6.483	6.482	(0.888)	1452	5.00000	4.73(Q)
	54 Tetrachloroethene	166	6.614	6.613	(0.906)	3776	5.00000	4.82
	55 1,3-Dichloropropane	76	6.635	6.634	(0.909)	2861	5.00000	5.12
	56 2-Hexanone	43	6.739	6.739	(0.923)	5518	25.0000	24.2
	57 Dibromochloromethane	129	6.833	6.833	(0.936)	1401	5.00000	3.90
	58 1,2-Dibromoethane	107	6.912	6.917	(0.947)	1579	5.00000	4.72
*	59 Chlorobenzene-d5	117	7.299	7.298	(1.000)	70049	50.0000	
	60 Chlorobenzene	112	7.320	7.319	(1.003)	7737	5.00000	4.91
	61 1,1,1,2-Tetrachloroethane	131	7.388	7.387	(1.012)	1852	5.00000	4.28
	62 Ethylbenzene	106	7.414	7.413	(1.016)	4489	5.00000	5.02
	63 m&p-Xylene	106	7.503	7.502	(1.028)	11326	10.0000	2.82
	65 o-Xylene	106	7.775	7.774	(1.065)	5349	5.00000	4.88
	66 Styrene	104	7.785	7.785	(1.067)	8432	5.00000	5.09
	67 Bromoform	173	7.900	7.900	(0.898)	741	5.00000	9.42(QM)
	68 Isopropylbenzene	105	8.021	8.020	(1.099)	15230	5.00000	5.03
	69 trans-1,4-Dichloro-2-butene	53	8.240	8.240	(1.129)	252	5.00000	4.40(QM)
$	70 4-Bromofluorobenzene	95	8.115	8.114	(1.112)	33533	50.0000	51.7
	72 1,1,2,2-Tetrachloroethane	83	8.209	8.208	(0.933)	2516	5.00000	4.89(M)
	71 Bromobenzene	77	8.199	8.203	(1.123)	6114	5.00000	5.42
	73 1,2,3-Trichloropropane	75	8.230	8.229	(0.936)	2098	5.00000	4.34(Q)
	74 n-Propylbenzene	91	8.277	8.276	(0.941)	18646	5.00000	4.81
	75 2-Chlorotoluene	91	8.324	8.323	(0.946)	10356	5.00000	4.60

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
76 4-Chlorotoluene	126	8.324	8.323	(0.946)	3208	5.00000	4.62
77 1,3,5-Trimethylbenzene	105	8.382	8.381	(0.953)	12068	5.00000	4.78
78 tert-Butylbenzene	119	8.575	8.569	(0.975)	12992	5.00000	4.66
79 1,2,4-Trimethylbenzene	105	8.601	8.595	(0.978)	12015	5.00000	4.49
80 sec-Butylbenzene	105	8.695	8.695	(0.989)	16656	5.00000	4.65
81 1,3-Dichlorobenzene	146	8.758	8.758	(0.996)	7140	5.00000	4.80
83 p-Isopropyltoluene	119	8.774	8.773	(0.998)	13077	5.00000	4.82
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.794	(1.000)	37692	50.0000	
84 1,4-Dichlorobenzene	146	8.805	8.805	(1.001)	6703	5.00000	4.75
86 n-Butylbenzene	91	8.993	8.993	(1.023)	12914	5.00000	4.46
85 1,2-Dichlorobenzene	146	9.009	9.009	(1.024)	5996	5.00000	4.76
88 1,2,4-Trichlorobenzene	180	9.825	9.824	(1.117)	5146	5.00000	4.64
91 1,2,3-Trichlorobenzene	180	10.087	10.086	(1.147)	4267	5.00000	4.88
87 1,2-Dibromo-3-chloropropane	155	9.909	9.411	(1.127)	394	5.00000	13.5(Q)
89 Hexachlorobutadiene	225	9.909	9.908	(1.127)	3759	5.00000	4.52
90 Naphthalene	128	9.961	9.960	(1.133)	7364	5.00000	4.76
92 2,methyl-naphthalene	142	10.583	10.583	(1.203)	4035	5.00000	4.32

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b03.d
Lab Smp Id: 5ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: 5ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	83272	10.63
59 Chlorobenzene-d5	69740	34870	139480	70049	0.44
82 1,4-Dichlorobenze	33195	16598	66390	37692	13.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.04
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.02

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	3.72	
74-87-3	Chloromethane	4.14	
75-01-4	Vinyl Chloride	3.56	
74-83-9	Bromomethane	3.32	
75-00-3	Chloroethane	0.766	
75-69-4	Trichlorofluoromethane	4.27	
354-23-4	1,2-dichlorotrifluoroethane	4.23	
60-29-7	Diethyl ether	4.59	
107-02-8	Acrolein	30.9	
75-35-4	1,1-Dichloroethene	4.40	
76-13-1	1,1,2trichlorotrifluoroethan	4.57	
67-64-1	Acetone	16.0	
	Iodomethane	8.93	
75-05-8	Acetonitrile	92.4	
75-15-0	Carbon Disulfide	9.88	
79-20-9	Methyl Acetate	6.26	
107-05-1	allyl chloride	9.23	
75-09-2	Methylene Chloride	4.86	
107-13-1	Acrylonitrile	111	
156-60-5	1,2-Dichloroethene (trans)	5.44	
1634-04-4	Methyl-tert-butyl ether	11.4	
	n-Hexane	4.90	
126-99-8	Chloroprene	4.12	
75-34-3	1,1-Dichloroethane	4.90	
108-05-4	Vinyl Acetate	18.0	
156-59-2	1,2-Dichloroethene (cis)	4.70	
594-20-7	2,2-Dichloropropane	4.15	
78-93-3	2-Butanone	22.7	
126-98-7	Methacrylonitrile	17.6	
74-97-5	Bromochloromethane	4.99	
	Tetrahydrofuran	3.88	
67-66-3	Chloroform	4.92	
71-55-6	1,1,1-Trichloroethane	4.06	
110-82-7	Cyclohexane	4.59	
78-83-1	Isobutyl alcohol	3.83	
563-58-6	1,1-Dichloropropene	4.38	
56-23-5	Carbon Tetrachloride	6.45	
540-84-1	2,2,4-Trimethylpentane	4.51	
71-43-2	Benzene	4.41	
107-06-2	1,2-Dichloroethane	4.53	
79-01-6	Trichloroethene	4.33	
108-87-2	Methylcyclohexane	4.46	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
78-87-5	1,2-Dichloropropane	4.47	
74-95-3	Dibromomethane	3.87	
80-62-6	Methyl methacrylate	3.68	
75-27-4	Bromodichloromethane	4.20	
110-75-8	2-Chloroethyl vinyl ether	8.89	
10061-01-5	cis-1,3-Dichloropropene	4.34	
108-10-1	4-Methyl-2-Pentanone	25.6	
108-88-3	Toluene	2.61	
10061-02-6	trans-1,3-Dichloropropene	4.14	
	Ethyl Methacrylate	4.42	
79-00-5	1,1,2-Trichloroethane	4.73	
127-18-4	Tetrachloroethene	4.82	
142-28-9	1,3-Dichloropropane	5.12	
591-78-6	2-Hexanone	24.2	
124-48-1	Dibromochloromethane	3.90	
106-93-4	1,2-Dibromoethane	4.72	
108-90-7	Chlorobenzene	4.91	
630-20-6	1,1,1,2-Tetrachloroethane	4.28	
100-41-4	Ethylbenzene	5.02	
7816-60-0	m&p-Xylene	2.82	
95-47-6	o-Xylene	4.88	
100-42-5	Styrene	5.09	
75-25-2	Bromoform	9.42	
98-82-8	Isopropylbenzene	5.03	
	trans-1,4-Dichloro-2-butene	4.40	
79-34-5	1,1,2,2-Tetrachloroethane	4.89	
108-86-1	Bromobenzene	5.42	
96-18-4	1,2,3-Trichloropropane	4.34	
103-65-1	n-Propylbenzene	4.81	
95-49-8	2-Chlorotoluene	4.60	
106-43-4	4-Chlorotoluene	4.62	
108-67-8	1,3,5-Trimethylbenzene	4.78	
98-06-6	tert-Butylbenzene	4.66	
95-63-6	1,2,4-Trimethylbenzene	4.49	
135-98-8	sec-Butylbenzene	4.65	
541-73-1	1,3-Dichlorobenzene	4.80	
99-87-6	p-Isopropyltoluene	4.82	
106-46-7	1,4-Dichlorobenzene	4.75	
104-51-8	n-Butylbenzene	4.46	
95-50-1	1,2-Dichlorobenzene	4.76	
120-82-1	1,2,4-Trichlorobenzene	4.64	
87-61-6	1,2,3-Trichlorobenzene	4.88	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

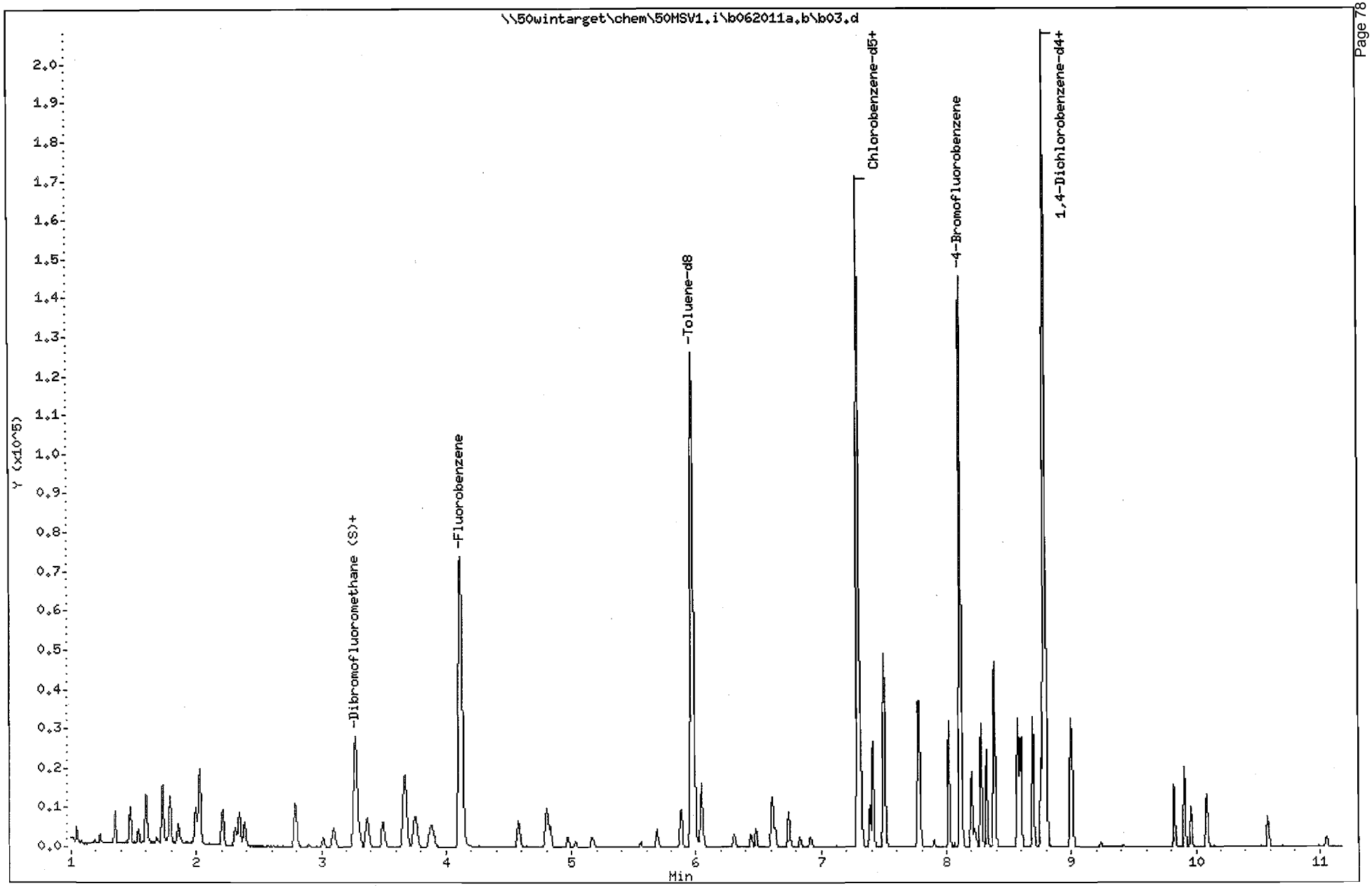
Client Name:
Lab Smp Id: 5ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 5ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	13.5	
87-68-3	Hexachlorobutadiene	4.52	
91-20-3	Naphthalene	4.76	
	2,methyl-naphthalene	4.32	
1868-53-7	Dibromofluoromethane (S)	49.0	
2037-26-5	Toluene-d8	52.9	
460-00-4	4-Bromofluorobenzene	51.7	

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b03.d
Date : 20-JUN-2011 16:10
Client ID: 5ppb
Sample Info: 5ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b03.d

Date : 20-JUN-2011 16:10

Client ID: 5ppb

Instrument: 50MSV1.i

Sample Info: 5ppb

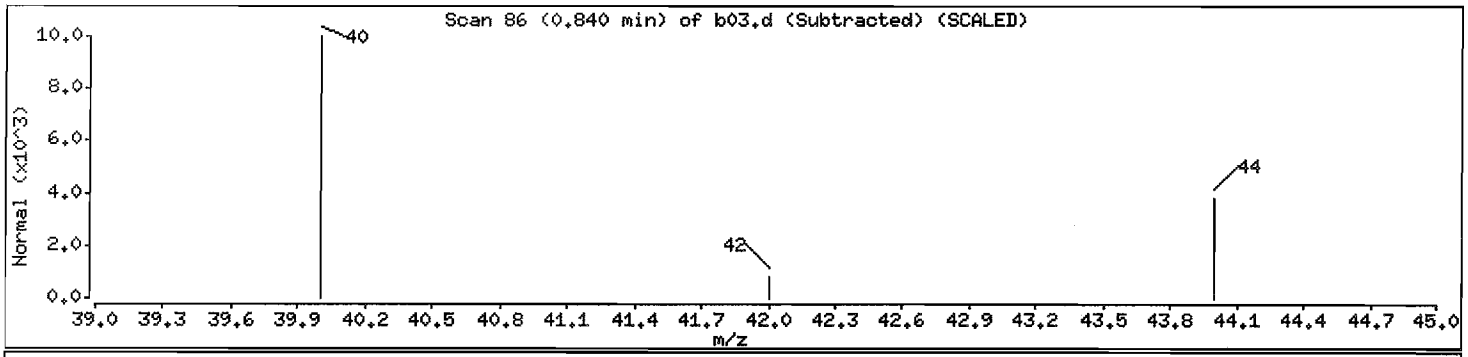
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b04.d
Lab Smp Id: 10ppb Client Smp ID: 10ppb
Inj Date : 20-JUN-2011 16:44
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 10ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede Quant Type: ISTD
Cal Date : 17-JUN-2011 20:08 Cal File: b08.d
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.917	0.918	(0.223)	10760	10.0000	11.2
2 Chloromethane	50	1.006	0.996	(0.244)	7572	10.0000	10.9
3 Vinyl Chloride	62	1.048	1.043	(0.255)	7193	10.0000	11.5
4 Bromomethane	94	1.194	1.190	(0.290)	1336	10.0000	7.24
5 Chloroethane	64	1.236	1.237	(0.300)	3107	10.0000	9.72
6 Trichlorofluoromethane	101	1.351	1.352	(0.328)	9174	10.0000	12.0
28 1,2-dichlorotrifluoroethane	67	1.471	1.472	(0.357)	5415	10.0000	10.7
7 Diethyl ether	74	1.477	1.477	(0.359)	1264	10.0000	9.61
8 Acrolein	56	1.539	1.540	(0.374)	5354	200.000	238
9 1,1-Dichloroethene	96	1.602	1.603	(0.389)	4169	10.0000	11.2
10 1,1,2trichlorotrifluoroethane	101	1.597	1.597	(0.388)	4632	10.0000	11.2
11 Acetone	43	1.613	1.618	(0.392)	2562	50.0000	53.4
12 Iodomethane	142	1.686	1.692	(0.409)	2887	20.0000	16.2
142 Acetonitrile	41	1.785	1.786	(0.434)	10613	200.000	236
13 Carbon Disulfide	76	1.733	1.733	(0.421)	28550	20.0000	23.3
138 Methyl Acetate	43	1.790	1.791	(0.435)	1221	10.0000	13.0(M)
14 allyl chloride	41	1.785	1.786	(0.434)	10613	20.0000	23.6
15 Methylene Chloride	84	1.858	1.859	(0.451)	3668	10.0000	10.7
16 Acrylonitrile	53	2.000	2.000	(0.486)	10293	200.000	220
18 1,2-Dichloroethene (trans)	96	2.026	2.026	(0.492)	4112	10.0000	10.6
19 Methyl-tert-butyl ether	73	2.026	2.026	(0.492)	13315	20.0000	20.6
20 n-Hexane	57	2.209	2.209	(0.536)	5981	10.0000	9.20
146 Chloroprene	53	2.387	2.387	(0.580)	7778	10.0000	11.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	21 1,1-Dichloroethane	63	2.313	2.314	(0.562)	8814	10.0000	10.7
	23 Vinyl Acetate	43	2.345	2.345	(0.569)	20883	40.0000	43.2
	25 1,2-Dichloroethene (cis)	96	2.789	2.790	(0.677)	5151	10.0000	10.8
	24 2,2-Dichloropropane	77	2.789	2.790	(0.677)	6777	10.0000	10.8
	26 2-Butanone	43	2.800	2.800	(0.680)	4762	50.0000	56.1(M)
	143 Methacrylonitrile	41	2.999	2.999	(0.728)	1003	50.0000	44.5(QM)
	29 Bromochloromethane	49	3.014	3.015	(0.732)	2779	10.0000	10.7
	30 Tetrahydrofuran	42	3.077	3.083	(0.747)	931	10.0000	8.96(M)
	31 Chloroform	83	3.103	3.104	(0.754)	8899	10.0000	10.7
$	32 Dibromofluoromethane (S)	113	3.276	3.276	(0.796)	17138	50.0000	51.8
	33 1,1,1-Trichloroethane	97	3.297	3.308	(0.801)	7458	10.0000	10.4
	139 Cyclohexane	56	3.375	3.376	(0.820)	8381	10.0000	10.7
	37 Isobutyl alcohol	43	3.893	3.883	(0.945)	3362	10.0000	11.2(M)
	36 1,1-Dichloropropene	75	3.495	3.496	(0.849)	7792	10.0000	11.1
	35 Carbon Tetrachloride	117	3.495	3.501	(0.849)	4835	10.0000	11.5
	147 2,2,4-Trimethylpentane	57	3.888	3.883	(0.944)	20114	10.0000	11.6
	38 Benzene	78	3.752	3.758	(0.911)	19697	10.0000	9.97
	39 1,2-Dichloroethane	62	3.773	3.768	(0.916)	4401	10.0000	11.0(M)
*	40 Fluorobenzene	96	4.118	4.118	(1.000)	73520	50.0000	
	41 Trichloroethene	95	4.573	4.579	(1.110)	5856	10.0000	10.7
	140 Methylcyclohexane	55	4.798	4.798	(1.165)	7703	10.0000	10.7
	42 1,2-Dichloropropane	63	4.829	4.835	(1.173)	4737	10.0000	10.7(M)
	43 Dibromomethane	93	4.965	4.971	(1.206)	2185	10.0000	10.2
	44 Methyl methacrylate	69	5.033	5.034	(1.222)	1747	10.0000	9.82
	45 Bromodichloromethane	83	5.174	5.170	(1.257)	5486	10.0000	10.1(M)
	46 2-Chloroethyl vinyl ether	63	5.556	5.551	(0.761)	1524	20.0000	24.0
	47 cis-1,3-Dichloropropene	75	5.687	5.687	(0.779)	6608	10.0000	10.0
	48 4-Methyl-2-Pentanone	43	5.880	5.881	(0.806)	13164	50.0000	52.0
$	49 Toluene-d8	98	5.975	5.975	(0.819)	77276	50.0000	51.5
	50 Toluene	91	6.048	6.048	(0.829)	29379	10.0000	11.3
	51 trans-1,3-Dichloropropene	75	6.304	6.305	(0.864)	4844	10.0000	9.04
	52 Ethyl Methacrylate	69	6.445	6.441	(0.883)	4462	10.0000	10.7(M)
	53 1,1,2-Trichloroethane	83	6.482	6.482	(0.888)	2985	10.0000	10.3
	54 Tetrachloroethene	166	6.613	6.613	(0.906)	7750	10.0000	10.5
	55 1,3-Dichloropropane	76	6.634	6.634	(0.909)	5868	10.0000	11.2
	56 2-Hexanone	43	6.743	6.739	(0.924)	9267	50.0000	48.9
	57 Dibromochloromethane	129	6.832	6.833	(0.936)	3092	10.0000	9.16
	58 1,2-Dibromoethane	107	6.916	6.917	(0.948)	3148	10.0000	10.0
*	59 Chlorobenzene-d5	117	7.298	7.298	(1.000)	65932	50.0000	
	60 Chlorobenzene	112	7.319	7.319	(1.003)	15520	10.0000	10.5
	61 1,1,1,2-Tetrachloroethane	131	7.387	7.387	(1.012)	3980	10.0000	9.78
	62 Ethylbenzene	106	7.413	7.413	(1.016)	9275	10.0000	11.0
	63 m&p-Xylene	106	7.502	7.502	(1.028)	22323	20.0000	17.2
	65 o-Xylene	106	7.774	7.774	(1.065)	10874	10.0000	10.5
	66 Styrene	104	7.784	7.785	(1.067)	16682	10.0000	10.7
	67 Bromoform	173	7.899	7.900	(0.898)	1653	10.0000	12.6(M)
	68 Isopropylbenzene	105	8.020	8.020	(1.099)	31147	10.0000	10.9
	69 trans-1,4-Dichloro-2-butene	53	8.239	8.240	(1.129)	708	10.0000	9.72(Q)
$	70 4-Bromofluorobenzene	95	8.114	8.114	(1.112)	29983	50.0000	49.1
	72 1,1,2,2-Tetrachloroethane	83	8.208	8.208	(0.933)	4356	10.0000	9.47
	71 Bromobenzene	77	8.203	8.203	(1.124)	10048	10.0000	9.47
	73 1,2,3-Trichloropropane	75	8.229	8.229	(0.936)	4114	10.0000	9.53(Q)
	74 n-Propylbenzene	91	8.276	8.276	(0.941)	37720	10.0000	10.9
	75 2-Chlorotoluene	91	8.323	8.323	(0.946)	21280	10.0000	10.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
76 4-Chlorotoluene	126	8.323	8.323	(0.946)	6575	10.0000	10.6
77 1,3,5-Trimethylbenzene	105	8.380	8.381	(0.953)	23699	10.0000	10.5
78 tert-Butylbenzene	119	8.574	8.569	(0.975)	26368	10.0000	10.6
79 1,2,4-Trimethylbenzene	105	8.600	8.595	(0.978)	24819	10.0000	10.4
80 sec-Butylbenzene	105	8.694	8.695	(0.989)	34141	10.0000	10.6
81 1,3-Dichlorobenzene	146	8.757	8.758	(0.996)	13929	10.0000	10.5
83 p-Isopropyltoluene	119	8.778	8.773	(0.998)	25939	10.0000	10.7
* 82 1,4-Dichlorobenzene-d4	152	8.794	8.794	(1.000)	33693	50.0000	
84 1,4-Dichlorobenzene	146	8.804	8.805	(1.001)	12893	10.0000	10.2
86 n-Butylbenzene	91	8.998	8.993	(1.023)	28684	10.0000	11.1
85 1,2-Dichlorobenzene	146	9.008	9.009	(1.024)	11938	10.0000	10.6
88 1,2,4-Trichlorobenzene	180	9.829	9.824	(1.118)	10167	10.0000	10.2
91 1,2,3-Trichlorobenzene	180	10.085	10.086	(1.147)	7707	10.0000	9.86
87 1,2-Dibromo-3-chloropropane	155	9.411	9.411	(1.070)	259	10.0000	12.4(Q)
89 Hexachlorobutadiene	225	9.908	9.908	(1.127)	7836	10.0000	10.5
90 Naphthalene	128	9.960	9.960	(1.133)	13276	10.0000	9.60
92 2,methyl-naphthalene	142	10.582	10.583	(1.203)	7568	10.0000	9.06

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b04.d
Lab Smp Id: 10ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: 10ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	73520	-2.33
59 Chlorobenzene-d5	69740	34870	139480	65932	-5.46
82 1,4-Dichlorobenze	33195	16598	66390	33693	1.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.01
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.01
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	11.2	
74-87-3	Chloromethane	10.9	
75-01-4	Vinyl Chloride	11.5	
74-83-9	Bromomethane	7.24	
75-00-3	Chloroethane	9.72	
75-69-4	Trichlorofluoromethane	12.0	
354-23-4	1,2-dichlorotrifluoroethane	10.7	
60-29-7	Diethyl ether	9.61	
107-02-8	Acrolein	238	
75-35-4	1,1-Dichloroethene	11.2	
76-13-1	1,1,2trichlorotrifluoroethan	11.2	
67-64-1	Acetone	53.4	
	Iodomethane	16.2	
75-05-8	Acetonitrile	236	
75-15-0	Carbon Disulfide	23.3	
79-20-9	Methyl Acetate	13.0	
107-05-1	allyl chloride	23.6	
75-09-2	Methylene Chloride	10.7	
107-13-1	Acrylonitrile	220	
156-60-5	1,2-Dichloroethene (trans)	10.6	
1634-04-4	Methyl-tert-butyl ether	20.6	
	n-Hexane	9.20	
126-99-8	Chloroprene	11.2	
75-34-3	1,1-Dichloroethane	10.7	
108-05-4	Vinyl Acetate	43.2	
156-59-2	1,2-Dichloroethene (cis)	10.8	
594-20-7	2,2-Dichloropropane	10.8	
78-93-3	2-Butanone	56.1	
126-98-7	Methacrylonitrile	44.5	
74-97-5	Bromochloromethane	10.7	
	Tetrahydrofuran	8.96	
67-66-3	Chloroform	10.7	
71-55-6	1,1,1-Trichloroethane	10.4	
110-82-7	Cyclohexane	10.7	
78-83-1	Isobutyl alcohol	11.2	
563-58-6	1,1-Dichloropropene	11.1	
56-23-5	Carbon Tetrachloride	11.5	
540-84-1	2,2,4-Trimethylpentane	11.6	
71-43-2	Benzene	9.97	
107-06-2	1,2-Dichloroethane	11.0	
79-01-6	Trichloroethene	10.7	
108-87-2	Methylcyclohexane	10.7	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
78-87-5	1,2-Dichloropropane	10.7	
74-95-3	Dibromomethane	10.2	
80-62-6	Methyl methacrylate	9.82	
75-27-4	Bromodichloromethane	10.1	
110-75-8	2-Chloroethyl vinyl ether	24.0	
10061-01-5	cis-1,3-Dichloropropene	10.0	
108-10-1	4-Methyl-2-Pentanone	52.0	
108-88-3	Toluene	11.3	
10061-02-6	trans-1,3-Dichloropropene	9.04	
	Ethyl Methacrylate	10.7	
79-00-5	1,1,2-Trichloroethane	10.3	
127-18-4	Tetrachloroethene	10.5	
142-28-9	1,3-Dichloropropane	11.2	
591-78-6	2-Hexanone	48.9	
124-48-1	Dibromochloromethane	9.16	
106-93-4	1,2-Dibromoethane	10.0	
108-90-7	Chlorobenzene	10.5	
630-20-6	1,1,1,2-Tetrachloroethane	9.78	
100-41-4	Ethylbenzene	11.0	
7816-60-0	m&p-Xylene	17.2	
95-47-6	o-Xylene	10.5	
100-42-5	Styrene	10.7	
75-25-2	Bromoform	12.6	
98-82-8	Isopropylbenzene	10.9	
	trans-1,4-Dichloro-2-butene	9.72	
79-34-5	1,1,2,2-Tetrachloroethane	9.47	
108-86-1	Bromobenzene	9.47	
96-18-4	1,2,3-Trichloropropane	9.53	
103-65-1	n-Propylbenzene	10.9	
95-49-8	2-Chlorotoluene	10.6	
106-43-4	4-Chlorotoluene	10.6	
108-67-8	1,3,5-Trimethylbenzene	10.5	
98-06-6	tert-Butylbenzene	10.6	
95-63-6	1,2,4-Trimethylbenzene	10.4	
135-98-8	sec-Butylbenzene	10.6	
541-73-1	1,3-Dichlorobenzene	10.5	
99-87-6	p-Isopropyltoluene	10.7	
106-46-7	1,4-Dichlorobenzene	10.2	
104-51-8	n-Butylbenzene	11.1	
95-50-1	1,2-Dichlorobenzene	10.6	
120-82-1	1,2,4-Trichlorobenzene	10.2	
87-61-6	1,2,3-Trichlorobenzene	9.86	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 10ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

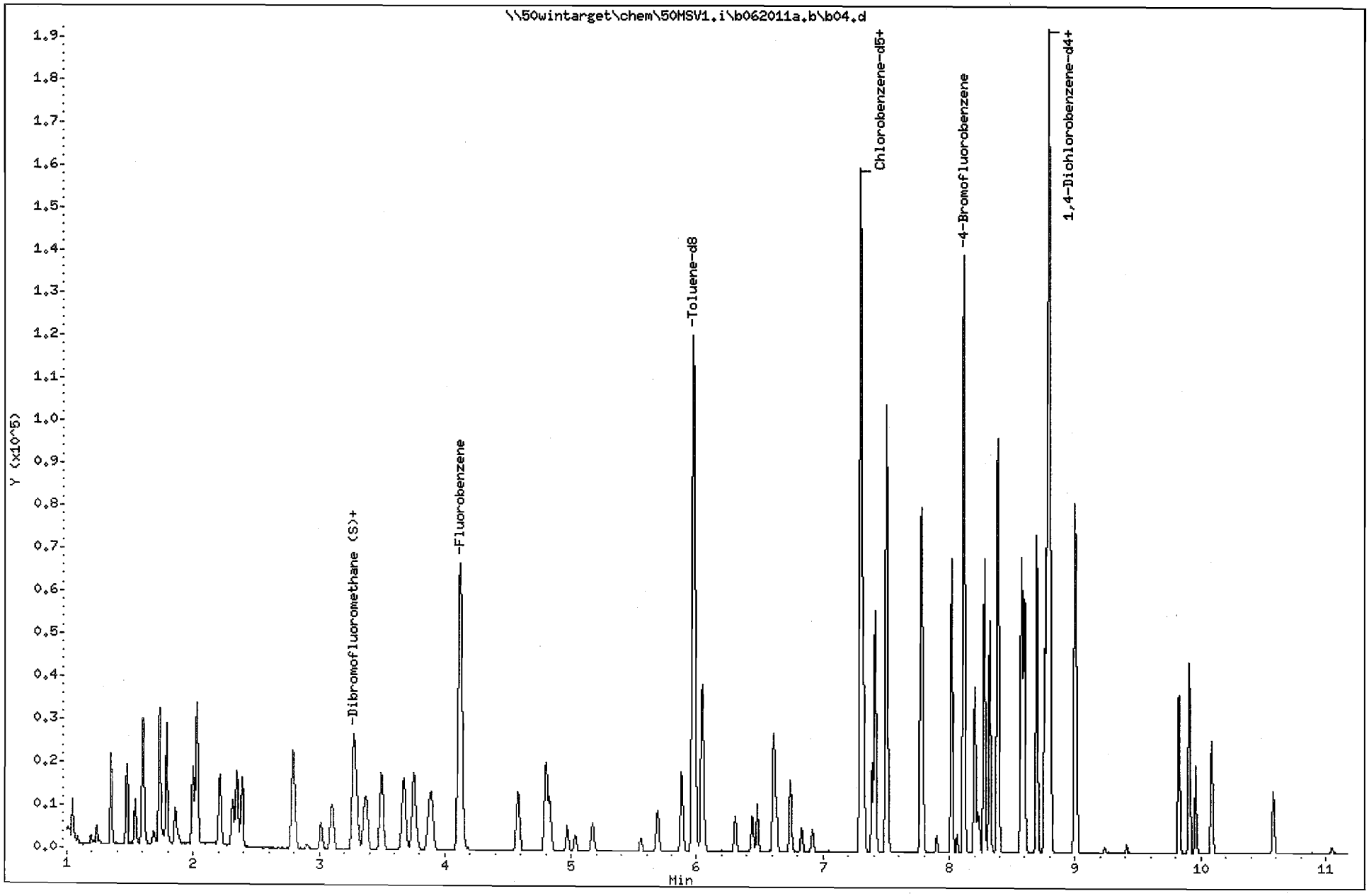
Client SDG: b062011a.b
Client Smp ID: 10ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
96-12-8	1,2-Dibromo-3-chloropropane	12.4	
87-68-3	Hexachlorobutadiene	10.5	
91-20-3	Naphthalene	9.60	
	2,methyl-naphthalene	9.06	
1868-53-7	Dibromofluoromethane (S)	51.8	
2037-26-5	Toluene-d8	51.5	
460-00-4	4-Bromofluorobenzene	49.1	

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b04.d
Date : 20-JUN-2011 16:44
Client ID: 10ppb
Sample Info: 10ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b04.d

Date : 20-JUN-2011 16:44

Client ID: 10ppb

Instrument: 50MSV1.i

Sample Info: 10ppb

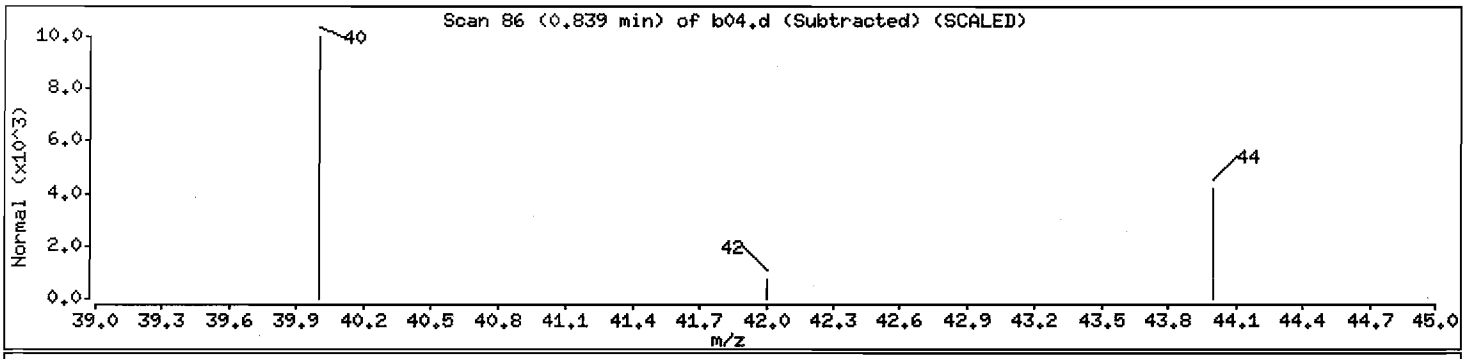
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b05.d
Lab Smp Id: 20ppb Client Smp ID: 20ppb
Inj Date : 20-JUN-2011 17:17
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 20ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede Quant Type: ISTD
Cal Date : 17-JUN-2011 20:08 Cal File: b08.d
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.913	0.918	(0.222)	19939	20.0000	20.8
2 Chloromethane	50	0.997	0.996	(0.242)	12921	20.0000	18.6
3 Vinyl Chloride	62	1.044	1.043	(0.253)	11606	20.0000	19.1
4 Bromomethane	94	1.190	1.190	(0.289)	3089	20.0000	14.0
5 Chloroethane	64	1.237	1.237	(0.300)	5357	20.0000	19.1
6 Trichlorofluoromethane	101	1.352	1.352	(0.328)	15469	20.0000	20.3
28 1,2-dichlorotrifluoroethane	67	1.473	1.472	(0.358)	11946	20.0000	23.7
7 Diethyl ether	74	1.478	1.477	(0.359)	3284	20.0000	25.0
8 Acrolein	56	1.540	1.540	(0.374)	7601	400.000	368
9 1,1-Dichloroethene	96	1.603	1.603	(0.389)	8542	20.0000	22.9
10 1,1,2trichlorotrifluoroethane	101	1.598	1.597	(0.388)	9778	20.0000	23.6
11 Acetone	43	1.614	1.618	(0.392)	4999	100.000	124
12 Iodomethane	142	1.687	1.692	(0.410)	9005	40.0000	36.9
142 Acetonitrile	41	1.786	1.786	(0.434)	19952	400.000	444
13 Carbon Disulfide	76	1.734	1.733	(0.421)	56178	40.0000	46.0
138 Methyl Acetate	43	1.792	1.791	(0.435)	2242	20.0000	23.0
14 allyl chloride	41	1.786	1.786	(0.434)	19952	40.0000	44.4
15 Methylene Chloride	84	1.860	1.859	(0.452)	7195	20.0000	20.9
16 Acrylonitrile	53	1.996	2.000	(0.485)	20811	400.000	446
17 tert-Butyl Alcohol	59	1.912	1.917	(0.464)	524	40.0000	34.6(TM)
18 1,2-Dichloroethene (trans)	96	2.027	2.026	(0.492)	8403	20.0000	21.6
19 Methyl-tert-butyl ether	73	2.027	2.026	(0.492)	28080	40.0000	43.5
20 n-Hexane	57	2.210	2.209	(0.537)	15891	20.0000	24.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	146 Chloroprene	53	2.383	2.387	(0.578)	16057	20.0000	23.1
	21 1,1-Dichloroethane	63	2.309	2.314	(0.561)	18434	20.0000	22.4
	23 Vinyl Acetate	43	2.341	2.345	(0.568)	44379	80.0000	92.0
	25 1,2-Dichloroethene (cis)	96	2.790	2.790	(0.677)	10919	20.0000	23.0
	24 2,2-Dichloropropane	77	2.790	2.790	(0.677)	14400	20.0000	23.0
	26 2-Butanone	43	2.801	2.800	(0.680)	9750	100.000	118
	143 Methacrylonitrile	41	3.000	2.999	(0.728)	2462	100.000	109
	29 Bromochloromethane	49	3.015	3.015	(0.732)	6014	20.0000	23.2
	30 Tetrahydrofuran	42	3.083	3.083	(0.749)	1490	20.0000	14.4(Q)
	31 Chloroform	83	3.099	3.104	(0.752)	18821	20.0000	22.7
$	32 Dibromofluoromethane (S)	113	3.272	3.276	(0.794)	16452	50.0000	49.8
	33 1,1,1-Trichloroethane	97	3.303	3.308	(0.802)	16045	20.0000	22.4
	139 Cyclohexane	56	3.366	3.376	(0.817)	18379	20.0000	23.5
	37 Isobutyl alcohol	43	3.889	3.883	(0.944)	6967	20.0000	23.2(M)
	36 1,1-Dichloropropene	75	3.497	3.496	(0.849)	15563	20.0000	22.3
	35 Carbon Tetrachloride	117	3.502	3.501	(0.850)	10940	20.0000	21.9
	147 2,2,4-Trimethylpentane	57	3.889	3.883	(0.944)	42162	20.0000	24.3
	38 Benzene	78	3.753	3.758	(0.911)	41067	20.0000	20.8
	39 1,2-Dichloroethane	62	3.769	3.768	(0.915)	9187	20.0000	23.0
*	40 Fluorobenzene	96	4.119	4.118	(1.000)	73458	50.0000	
	41 Trichloroethene	95	4.579	4.579	(1.112)	12149	20.0000	22.3
	140 Methylcyclohexane	55	4.804	4.798	(1.166)	16829	20.0000	23.5
	42 1,2-Dichloropropane	63	4.830	4.835	(1.173)	10211	20.0000	23.1(M)
	43 Dibromomethane	93	4.966	4.971	(1.206)	4867	20.0000	22.8
	44 Methyl methacrylate	69	5.034	5.034	(1.222)	4004	20.0000	22.5
	45 Bromodichloromethane	83	5.170	5.170	(1.255)	11503	20.0000	21.2
	46 2-Chloroethyl vinyl ether	63	5.552	5.551	(0.761)	3124	40.0000	48.3
	47 cis-1,3-Dichloropropene	75	5.688	5.687	(0.779)	15469	20.0000	23.0
	48 4-Methyl-2-Pentanone	43	5.876	5.881	(0.805)	28527	100.000	110
$	49 Toluene-d8	98	5.976	5.975	(0.819)	74204	50.0000	48.5
	50 Toluene	91	6.049	6.048	(0.829)	54623	20.0000	23.5
	51 trans-1,3-Dichloropropene	75	6.305	6.305	(0.864)	11582	20.0000	21.2
	52 Ethyl Methacrylate	69	6.441	6.441	(0.882)	9331	20.0000	22.0(M)
	53 1,1,2-Trichloroethane	83	6.483	6.482	(0.888)	7019	20.0000	23.9
	54 Tetrachloroethene	166	6.608	6.613	(0.905)	16696	20.0000	22.2
	55 1,3-Dichloropropane	76	6.635	6.634	(0.909)	12330	20.0000	23.0
	56 2-Hexanone	43	6.739	6.739	(0.923)	20221	100.000	113
	57 Dibromochloromethane	129	6.833	6.833	(0.936)	7094	20.0000	20.6
	58 1,2-Dibromoethane	107	6.912	6.917	(0.947)	7113	20.0000	22.2
*	59 Chlorobenzene-d5	117	7.299	7.298	(1.000)	67176	50.0000	
	60 Chlorobenzene	112	7.320	7.319	(1.003)	32275	20.0000	21.4
	61 1,1,1,2-Tetrachloroethane	131	7.388	7.387	(1.012)	8951	20.0000	21.6
	62 Ethylbenzene	106	7.414	7.413	(1.016)	19094	20.0000	22.3
	63 m&p-Xylene	106	7.503	7.502	(1.028)	46769	40.0000	46.4
	65 o-Xylene	106	7.775	7.774	(1.065)	21826	20.0000	20.8
	66 Styrene	104	7.785	7.785	(1.067)	34163	20.0000	21.5
	67 Bromoform	173	7.900	7.900	(0.898)	3930	20.0000	20.2
	68 Isopropylbenzene	105	8.021	8.020	(1.099)	64695	20.0000	22.3
	69 trans-1,4-Dichloro-2-butene	53	8.240	8.240	(1.129)	1730	20.0000	20.9(Q)
$	70 4-Bromofluorobenzene	95	8.110	8.114	(1.111)	30120	50.0000	48.4
	72 1,1,2,2-Tetrachloroethane	83	8.209	8.208	(0.933)	9290	20.0000	20.8
	71 Bromobenzene	77	8.198	8.203	(1.123)	23887	20.0000	22.1
	73 1,2,3-Trichloropropane	75	8.230	8.229	(0.936)	8958	20.0000	21.4(Q)
	74 n-Propylbenzene	91	8.277	8.276	(0.941)	71288	20.0000	21.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
75 2-Chlorotoluene	91	8.324	8.323	(0.946)	40949	20.0000	21.0
76 4-Chlorotoluene	126	8.324	8.323	(0.946)	13216	20.0000	22.0
77 1,3,5-Trimethylbenzene	105	8.382	8.381	(0.953)	47846	20.0000	21.9
78 tert-Butylbenzene	119	8.570	8.569	(0.974)	53407	20.0000	22.1
79 1,2,4-Trimethylbenzene	105	8.596	8.595	(0.977)	46866	20.0000	20.2
80 sec-Butylbenzene	105	8.695	8.695	(0.989)	70907	20.0000	22.8
81 1,3-Dichlorobenzene	146	8.758	8.758	(0.996)	28026	20.0000	21.8
83 p-Isopropyltoluene	119	8.774	8.773	(0.998)	53657	20.0000	22.8
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.794	(1.000)	32658	50.0000	
84 1,4-Dichlorobenzene	146	8.805	8.805	(1.001)	25907	20.0000	21.2
86 n-Butylbenzene	91	8.993	8.993	(1.023)	55869	20.0000	22.3
85 1,2-Dichlorobenzene	146	9.009	9.009	(1.024)	23779	20.0000	21.8
88 1,2,4-Trichlorobenzene	180	9.825	9.824	(1.117)	20670	20.0000	21.5
91 1,2,3-Trichlorobenzene	180	10.087	10.086	(1.147)	15837	20.0000	20.9
87 1,2-Dibromo-3-chloropropane	155	9.412	9.411	(1.070)	1017	20.0000	22.5(Q)
89 Hexachlorobutadiene	225	9.909	9.908	(1.127)	16586	20.0000	23.0
90 Naphthalene	128	9.956	9.960	(1.132)	26996	20.0000	20.1
92 2,methyl-naphthalene	142	10.583	10.583	(1.203)	15950	20.0000	19.7

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b05.d
Lab Smp Id: 20ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: 20ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	73458	-2.41
59 Chlorobenzene-d5	69740	34870	139480	67176	-3.68
82 1,4-Dichlorobenze	33195	16598	66390	32658	-1.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.04
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.02

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	20.8	
74-87-3	Chloromethane	18.6	
75-01-4	Vinyl Chloride	19.1	
74-83-9	Bromomethane	14.0	
75-00-3	Chloroethane	19.1	
75-69-4	Trichlorofluoromethane	20.3	
354-23-4	1,2-dichlorotrifluoroethane	23.7	
60-29-7	Diethyl ether	25.0	
107-02-8	Acrolein	368	
75-35-4	1,1-Dichloroethene	22.9	
76-13-1	1,1,2trichlorotrifluoroethan	23.6	
67-64-1	Acetone	124	
	Iodomethane	36.9	
75-05-8	Acetonitrile	444	
75-15-0	Carbon Disulfide	46.0	
79-20-9	Methyl Acetate	23.0	
107-05-1	allyl chloride	44.4	
75-09-2	Methylene Chloride	20.9	
107-13-1	Acrylonitrile	446	
75-65-0	tert-Butyl Alcohol	34.6	
156-60-5	1,2-Dichloroethene (trans)	21.6	
1634-04-4	Methyl-tert-butyl ether	43.5	
	n-Hexane	24.4	
126-99-8	Chloroprene	23.1	
75-34-3	1,1-Dichloroethane	22.4	
108-05-4	Vinyl Acetate	92.0	
156-59-2	1,2-Dichloroethene (cis)	23.0	
594-20-7	2,2-Dichloropropane	23.0	
78-93-3	2-Butanone	118	
126-98-7	Methacrylonitrile	109	
74-97-5	Bromochloromethane	23.2	
	Tetrahydrofuran	14.4	
67-66-3	Chloroform	22.7	
71-55-6	1,1,1-Trichloroethane	22.4	
110-82-7	Cyclohexane	23.5	
78-83-1	Isobutyl alcohol	23.2	
563-58-6	1,1-Dichloropropene	22.3	
56-23-5	Carbon Tetrachloride	21.9	
540-84-1	2,2,4-Trimethylpentane	24.3	
71-43-2	Benzene	20.8	
107-06-2	1,2-Dichloroethane	23.0	
79-01-6	Trichloroethene	22.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
108-87-2	Methylcyclohexane	23.5	
78-87-5	1,2-Dichloropropane	23.1	
74-95-3	Dibromomethane	22.8	
80-62-6	Methyl methacrylate	22.5	
75-27-4	Bromodichloromethane	21.2	
110-75-8	2-Chloroethyl vinyl ether	48.3	
10061-01-5	cis-1,3-Dichloropropene	23.0	
108-10-1	4-Methyl-2-Pentanone	110	
108-88-3	Toluene	23.5	
10061-02-6	trans-1,3-Dichloropropene	21.2	
	Ethyl Methacrylate	22.0	
79-00-5	1,1,2-Trichloroethane	23.9	
127-18-4	Tetrachloroethene	22.2	
142-28-9	1,3-Dichloropropane	23.0	
591-78-6	2-Hexanone	113	
124-48-1	Dibromochloromethane	20.6	
106-93-4	1,2-Dibromoethane	22.2	
108-90-7	Chlorobenzene	21.4	
630-20-6	1,1,1,2-Tetrachloroethane	21.6	
100-41-4	Ethylbenzene	22.3	
7816-60-0	m&p-Xylene	46.4	
95-47-6	o-Xylene	20.8	
100-42-5	Styrene	21.5	
75-25-2	Bromoform	20.2	
98-82-8	Isopropylbenzene	22.3	
	trans-1,4-Dichloro-2-butene	20.9	
79-34-5	1,1,2,2-Tetrachloroethane	20.8	
108-86-1	Bromobenzene	22.1	
96-18-4	1,2,3-Trichloropropane	21.4	
103-65-1	n-Propylbenzene	21.2	
95-49-8	2-Chlorotoluene	21.0	
106-43-4	4-Chlorotoluene	22.0	
108-67-8	1,3,5-Trimethylbenzene	21.9	
98-06-6	tert-Butylbenzene	22.1	
95-63-6	1,2,4-Trimethylbenzene	20.2	
135-98-8	sec-Butylbenzene	22.8	
541-73-1	1,3-Dichlorobenzene	21.8	
99-87-6	p-Isopropyltoluene	22.8	
106-46-7	1,4-Dichlorobenzene	21.2	
104-51-8	n-Butylbenzene	22.3	
95-50-1	1,2-Dichlorobenzene	21.8	
120-82-1	1,2,4-Trichlorobenzene	21.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

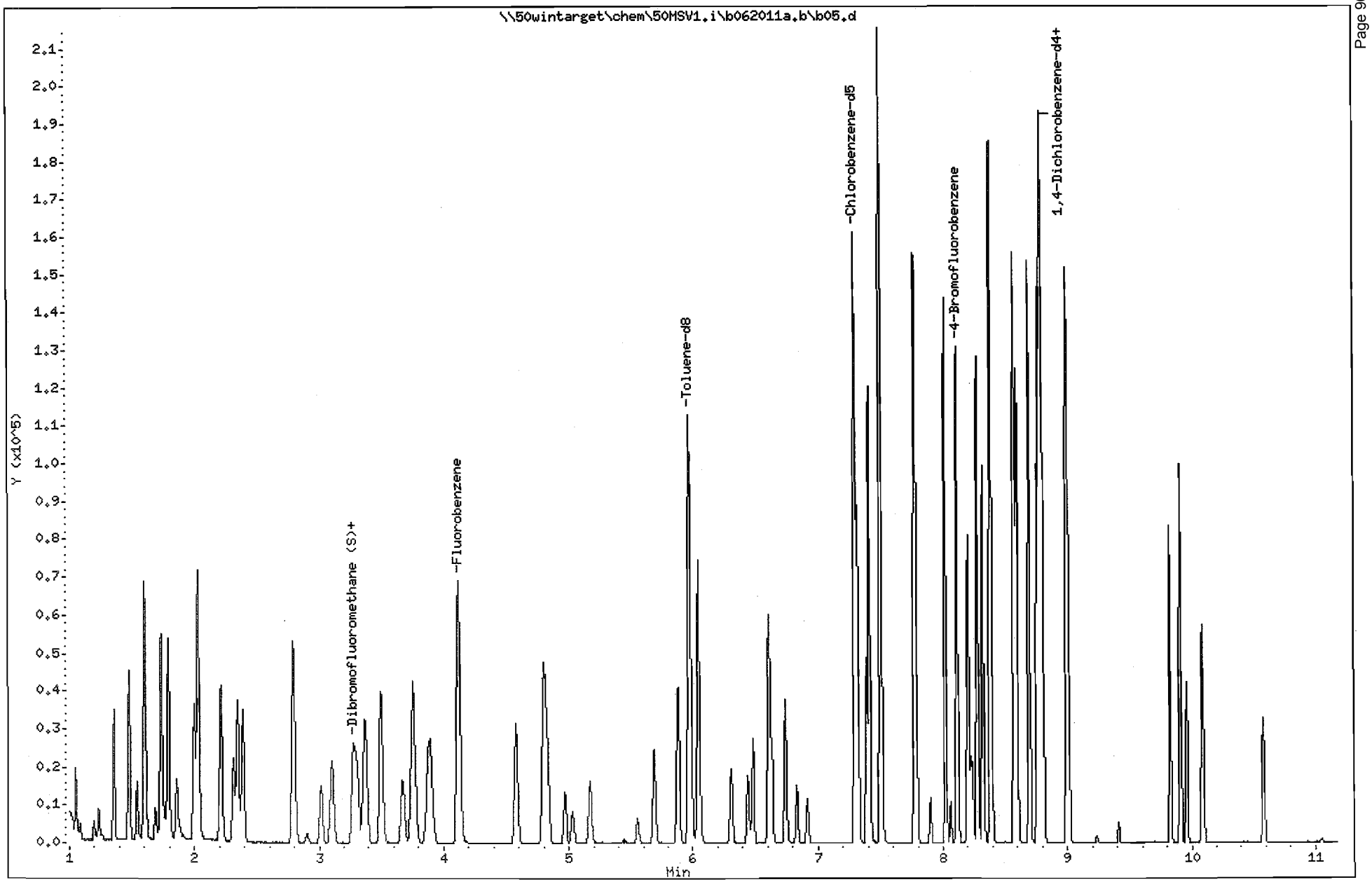
Client Name:
Lab Smp Id: 20ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 20ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
87-61-6	1,2,3-Trichlorobenzene	20.9	
96-12-8	1,2-Dibromo-3-chloropropane	22.5	
87-68-3	Hexachlorobutadiene	23.0	
91-20-3	Naphthalene	20.1	
	2,methyl-naphthalene	19.7	
1868-53-7	Dibromofluoromethane (S)	49.8	
2037-26-5	Toluene-d8	48.5	
460-00-4	4-Bromofluorobenzene	48.4	

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b05.d
Date : 20-JUN-2011 17:17
Client ID: 20ppb
Sample Info: 20ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b05.d

Date : 20-JUN-2011 17:17

Client ID: 20ppb

Instrument: 50MSV1.i

Sample Info: 20ppb

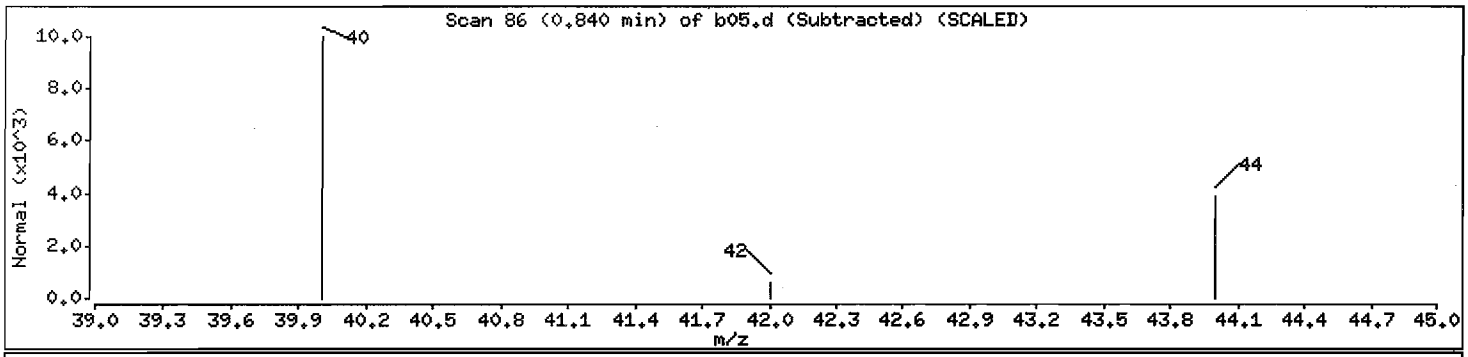
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b06.d
Lab Smp Id: 50ppb Client Smp ID: 50ppb
Inj Date : 20-JUN-2011 17:53
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 50ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede Quant Type: ISTD
Cal Date : 17-JUN-2011 20:08 Cal File: b08.d
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.917	0.918	(0.223)	53098	50.0000	54.1
2 Chloromethane	50	0.995	0.996	(0.242)	37143	50.0000	52.1
3 Vinyl Chloride	62	1.042	1.043	(0.253)	32945	50.0000	54.1
4 Bromomethane	94	1.189	1.190	(0.289)	12759	50.0000	50.4
5 Chloroethane	64	1.230	1.237	(0.299)	14869	50.0000	57.2
6 Trichlorofluoromethane	101	1.351	1.352	(0.328)	40813	50.0000	52.2
28 1,2-dichlorotrifluoroethane	67	1.471	1.472	(0.357)	26685	50.0000	51.7
7 Diethyl ether	74	1.476	1.477	(0.359)	7150	50.0000	53.1
8 Acrolein	56	1.539	1.540	(0.374)	21149	1000.00	1120
9 1,1-Dichloroethene	96	1.602	1.603	(0.389)	19467	50.0000	51.0
10 1,1,2trichlorotrifluoroethane	101	1.591	1.597	(0.387)	21759	50.0000	51.3
11 Acetone	43	1.612	1.618	(0.392)	10161	250.000	266
12 Iodomethane	142	1.685	1.692	(0.409)	32002	100.000	112
142 Acetonitrile	41	1.785	1.786	(0.434)	48399	1000.00	1050
13 Carbon Disulfide	76	1.732	1.733	(0.421)	132265	100.000	106
138 Methyl Acetate	43	1.790	1.791	(0.435)	5156	50.0000	50.2
14 allyl chloride	41	1.785	1.786	(0.434)	48399	100.000	105
15 Methylene Chloride	84	1.858	1.859	(0.451)	16185	50.0000	46.0
16 Acrylonitrile	53	1.994	2.000	(0.484)	48149	1000.00	1010
27 Propionitrile	54	2.852	2.853	(0.693)	945	50.0000	50.0
17 tert-Butyl Alcohol	59	1.910	1.917	(0.464)	1638	100.000	106(T)
18 1,2-Dichloroethene (trans)	96	2.025	2.026	(0.492)	18979	50.0000	47.6
19 Methyl-tert-butyl ether	73	2.025	2.026	(0.492)	62038	100.000	93.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	20 n-Hexane	57	2.208	2.209	(0.536)	34338	50.0000	51.6
	146 Chloroprene	53	2.381	2.387	(0.578)	37340	50.0000	52.4
	21 1,1-Dichloroethane	63	2.308	2.314	(0.561)	46547	50.0000	55.3
	23 Vinyl Acetate	43	2.339	2.345	(0.568)	108893	200.000	220
	25 1,2-Dichloroethene (cis)	96	2.784	2.790	(0.676)	25654	50.0000	52.6
	24 2,2-Dichloropropane	77	2.784	2.790	(0.676)	34641	50.0000	53.9
	26 2-Butanone	43	2.799	2.800	(0.680)	21933	250.000	262
	143 Methacrylonitrile	41	2.993	2.999	(0.727)	6480	250.000	281
	29 Bromochloromethane	49	3.014	3.015	(0.732)	14920	50.0000	56.1
	30 Tetrahydrofuran	42	3.077	3.083	(0.747)	3236	50.0000	30.4
	31 Chloroform	83	3.098	3.104	(0.752)	45545	50.0000	53.7
$	32 Dibromofluoromethane (S)	113	3.270	3.276	(0.794)	17112	50.0000	50.6
	33 1,1,1-Trichloroethane	97	3.302	3.308	(0.802)	37647	50.0000	51.2
	139 Cyclohexane	56	3.364	3.376	(0.817)	40423	50.0000	50.5
	37 Isobutyl alcohol	43	3.877	3.883	(0.942)	15490	50.0000	50.3
	36 1,1-Dichloropropene	75	3.490	3.496	(0.848)	37597	50.0000	52.5
	35 Carbon Tetrachloride	117	3.495	3.501	(0.849)	28430	50.0000	50.4
	144 isopropyl acetate	61	1.042	1.043	(0.253)	2356	50.0000	51.6
	147 2,2,4-Trimethylpentane	57	3.877	3.883	(0.942)	92930	50.0000	52.2
	38 Benzene	78	3.746	3.758	(0.910)	98935	50.0000	48.9
	39 1,2-Dichloroethane	62	3.767	3.768	(0.915)	21874	50.0000	53.5
*	40 Fluorobenzene	96	4.117	4.118	(1.000)	75273	50.0000	
	41 Trichloroethene	95	4.572	4.579	(1.110)	30147	50.0000	53.9
	140 Methylcyclohexane	55	4.797	4.798	(1.165)	39872	50.0000	54.3
	42 1,2-Dichloropropane	63	4.829	4.835	(1.173)	23695	50.0000	52.3
	43 Dibromomethane	93	4.965	4.971	(1.206)	11353	50.0000	51.8
	44 Methyl methacrylate	69	5.022	5.034	(1.220)	9640	50.0000	52.9
	45 Bromodichloromethane	83	5.169	5.170	(1.255)	29663	50.0000	53.3
	46 2-Chloroethyl vinyl ether	63	5.545	5.551	(0.760)	6494	100.000	96.6
	47 cis-1,3-Dichloropropene	75	5.681	5.687	(0.779)	36476	50.0000	52.4
	48 4-Methyl-2-Pentanone	43	5.875	5.881	(0.805)	64366	250.000	240
$	49 Toluene-d8	98	5.974	5.975	(0.819)	77346	50.0000	48.7
	50 Toluene	91	6.042	6.048	(0.828)	117233	50.0000	52.4
	51 trans-1,3-Dichloropropene	75	6.304	6.305	(0.864)	28533	50.0000	50.3
	52 Ethyl Methacrylate	69	6.440	6.441	(0.882)	22159	50.0000	50.3
	53 1,1,2-Trichloroethane	83	6.481	6.482	(0.888)	15529	50.0000	50.8
	54 Tetrachloroethene	166	6.607	6.613	(0.905)	37412	50.0000	48.0
	55 1,3-Dichloropropane	76	6.633	6.634	(0.909)	28283	50.0000	50.8
	56 2-Hexanone	43	6.738	6.739	(0.923)	47073	250.000	263
	57 Dibromochloromethane	129	6.832	6.833	(0.936)	18235	50.0000	51.1
	58 1,2-Dibromoethane	107	6.910	6.917	(0.947)	17492	50.0000	52.6
*	59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	69740	50.0000	
	60 Chlorobenzene	112	7.318	7.319	(1.003)	76683	50.0000	48.9
	61 1,1,1,2-Tetrachloroethane	131	7.386	7.387	(1.012)	22737	50.0000	52.8
	62 Ethylbenzene	106	7.412	7.413	(1.016)	41979	50.0000	47.2
	63 m&p-Xylene	106	7.501	7.502	(1.028)	102329	100.000	109
	65 o-Xylene	106	7.773	7.774	(1.065)	55357	50.0000	50.7
	66 Styrene	104	7.784	7.785	(1.067)	86502	50.0000	52.5
	67 Bromoform	173	7.899	7.900	(0.898)	11128	50.0000	43.4
	68 Isopropylbenzene	105	8.019	8.020	(1.099)	147601	50.0000	49.0
	69 trans-1,4-Dichloro-2-butene	53	8.239	8.240	(1.129)	4584	50.0000	50.6(Q)
$	70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	32655	50.0000	50.5
	72 1,1,2,2-Tetrachloroethane	83	8.207	8.208	(0.933)	21906	50.0000	48.3
	71 Bromobenzene	77	8.197	8.203	(1.123)	58416	50.0000	52.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
73 1,2,3-Trichloropropane	75	8.228	8.229	(0.936)	21729	50.0000	51.1
74 n-Propylbenzene	91	8.275	8.276	(0.941)	178153	50.0000	52.2
75 2-Chlorotoluene	91	8.322	8.323	(0.946)	97565	50.0000	49.2
76 4-Chlorotoluene	126	8.322	8.323	(0.946)	31249	50.0000	51.1
77 1,3,5-Trimethylbenzene	105	8.380	8.381	(0.953)	111225	50.0000	50.0
78 tert-Butylbenzene	119	8.568	8.569	(0.974)	124052	50.0000	50.5
79 1,2,4-Trimethylbenzene	105	8.594	8.595	(0.977)	107923	50.0000	45.8
80 sec-Butylbenzene	105	8.694	8.695	(0.989)	161697	50.0000	51.2
81 1,3-Dichlorobenzene	146	8.757	8.758	(0.996)	64497	50.0000	49.3
83 p-Isopropyltoluene	119	8.772	8.773	(0.998)	121958	50.0000	51.0
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.794	(1.000)	33195	50.0000	
84 1,4-Dichlorobenzene	146	8.804	8.805	(1.001)	60432	50.0000	48.7
86 n-Butylbenzene	91	8.992	8.993	(1.023)	131883	50.0000	51.8
85 1,2-Dichlorobenzene	146	9.008	9.009	(1.024)	54168	50.0000	48.8
88 1,2,4-Trichlorobenzene	180	9.829	9.824	(1.118)	47831	50.0000	48.9
91 1,2,3-Trichlorobenzene	180	10.085	10.086	(1.147)	38531	50.0000	50.0
87 1,2-Dibromo-3-chloropropane	155	9.410	9.411	(1.070)	2795	50.0000	45.4
89 Hexachlorobutadiene	225	9.907	9.908	(1.127)	36908	50.0000	50.4
90 Naphthalene	128	9.959	9.960	(1.133)	61491	50.0000	45.1
92 2,methyl-naphthalene	142	10.582	10.583	(1.203)	38860	50.0000	47.2

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b06.d
Lab Smp Id: 50ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: 50ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	75273	0.00
59 Chlorobenzene-d5	69740	34870	139480	69740	0.00
82 1,4-Dichlorobenze	33195	16598	66390	33195	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.00
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.00
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.00

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	54.1	
74-87-3	Chloromethane	52.1	
75-01-4	Vinyl Chloride	54.1	
74-83-9	Bromomethane	50.4	
75-00-3	Chloroethane	57.2	
75-69-4	Trichlorofluoromethane	52.2	
354-23-4	1,2-dichlorotrifluoroethane	51.7	
60-29-7	Diethyl ether	53.1	
107-02-8	Acrolein	1120	
75-35-4	1,1-Dichloroethene	51.0	
76-13-1	1,1,2trichlorotrifluoroethan	51.3	
67-64-1	Acetone	266	
	Iodomethane	112	
75-05-8	Acetonitrile	1050	
75-15-0	Carbon Disulfide	106	
79-20-9	Methyl Acetate	50.2	
107-05-1	allyl chloride	105	
75-09-2	Methylene Chloride	46.0	
107-13-1	Acrylonitrile	1010	
107-12-0	Propionitrile	50.0	
75-65-0	tert-Butyl Alcohol	106	
156-60-5	1,2-Dichloroethene (trans)	47.6	
1634-04-4	Methyl-tert-butyl ether	93.7	
	n-Hexane	51.6	
126-99-8	Chloroprene	52.4	
75-34-3	1,1-Dichloroethane	55.3	
108-05-4	Vinyl Acetate	220	
156-59-2	1,2-Dichloroethene (cis)	52.6	
594-20-7	2,2-Dichloropropane	53.9	
78-93-3	2-Butanone	262	
126-98-7	Methacrylonitrile	281	
74-97-5	Bromochloromethane	56.1	
	Tetrahydrofuran	30.4	
67-66-3	Chloroform	53.7	
71-55-6	1,1,1-Trichloroethane	51.2	
110-82-7	Cyclohexane	50.5	
78-83-1	Isobutyl alcohol	50.3	
563-58-6	1,1-Dichloropropene	52.5	
56-23-5	Carbon Tetrachloride	50.4	
108-21-4	isopropyl acetate	51.6	
540-84-1	2,2,4-Trimethylpentane	52.2	
71-43-2	Benzene	48.9	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
107-06-2	1,2-Dichloroethane	53.5	
79-01-6	Trichloroethene	53.9	
108-87-2	Methylcyclohexane	54.3	
78-87-5	1,2-Dichloropropane	52.3	
74-95-3	Dibromomethane	51.8	
80-62-6	Methyl methacrylate	52.9	
75-27-4	Bromodichloromethane	53.3	
110-75-8	2-Chloroethyl vinyl ether	96.6	
10061-01-5	cis-1,3-Dichloropropene	52.4	
108-10-1	4-Methyl-2-Pentanone	240	
108-88-3	Toluene	52.4	
10061-02-6	trans-1,3-Dichloropropene	50.3	
	Ethyl Methacrylate	50.3	
79-00-5	1,1,2-Trichloroethane	50.8	
127-18-4	Tetrachloroethene	48.0	
142-28-9	1,3-Dichloropropane	50.8	
591-78-6	2-Hexanone	263	
124-48-1	Dibromochloromethane	51.1	
106-93-4	1,2-Dibromoethane	52.6	
108-90-7	Chlorobenzene	48.9	
630-20-6	1,1,1,2-Tetrachloroethane	52.8	
100-41-4	Ethylbenzene	47.2	
7816-60-0	m&p-Xylene	109	
95-47-6	o-Xylene	50.7	
100-42-5	Styrene	52.5	
75-25-2	Bromoform	43.4	
98-82-8	Isopropylbenzene	49.0	
	trans-1,4-Dichloro-2-butene	50.6	
79-34-5	1,1,2,2-Tetrachloroethane	48.3	
108-86-1	Bromobenzene	52.0	
96-18-4	1,2,3-Trichloropropane	51.1	
103-65-1	n-Propylbenzene	52.2	
95-49-8	2-Chlorotoluene	49.2	
106-43-4	4-Chlorotoluene	51.1	
108-67-8	1,3,5-Trimethylbenzene	50.0	
98-06-6	tert-Butylbenzene	50.5	
95-63-6	1,2,4-Trimethylbenzene	45.8	
135-98-8	sec-Butylbenzene	51.2	
541-73-1	1,3-Dichlorobenzene	49.3	
99-87-6	p-Isopropyltoluene	51.0	
106-46-7	1,4-Dichlorobenzene	48.7	
104-51-8	n-Butylbenzene	51.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

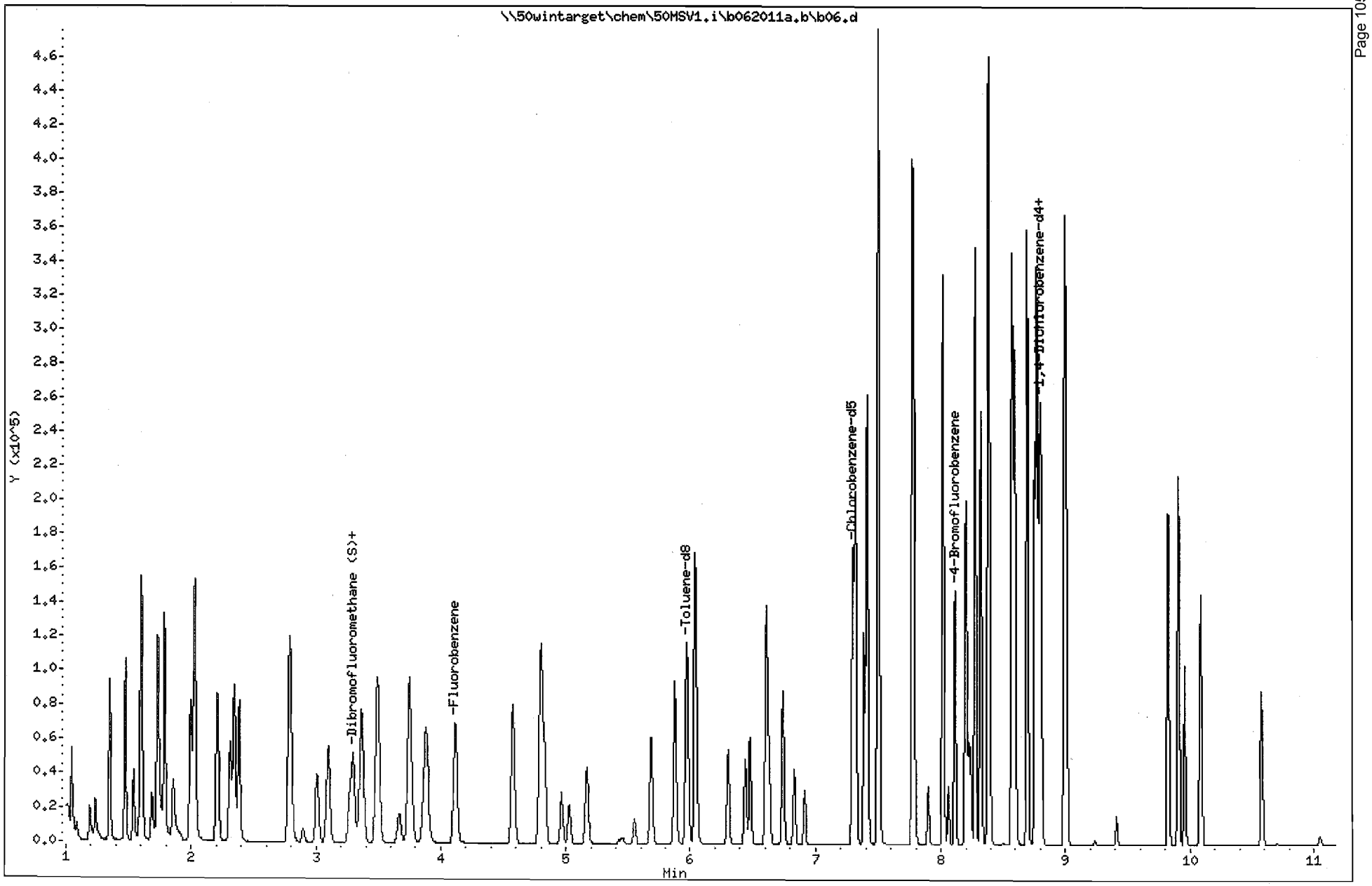
Client Name:
Lab Smp Id: 50ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 50ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1	1,2-Dichlorobenzene	48.8	
120-82-1	1,2,4-Trichlorobenzene	48.9	
87-61-6	1,2,3-Trichlorobenzene	50.0	
96-12-8	1,2-Dibromo-3-chloropropane	45.4	
87-68-3	Hexachlorobutadiene	50.4	
91-20-3	Naphthalene	45.1	
	2,methyl-naphthalene	47.2	
1868-53-7	Dibromofluoromethane (S)	50.6	
2037-26-5	Toluene-d8	48.7	
460-00-4	4-Bromofluorobenzene	50.5	

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b06.d
Date : 20-JUN-2011 17:53
Client ID: 50ppb
Sample Info: 50ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b06.d

Date : 20-JUN-2011 17:53

Client ID: 50ppb

Instrument: 50MSV1.i

Sample Info: 50ppb

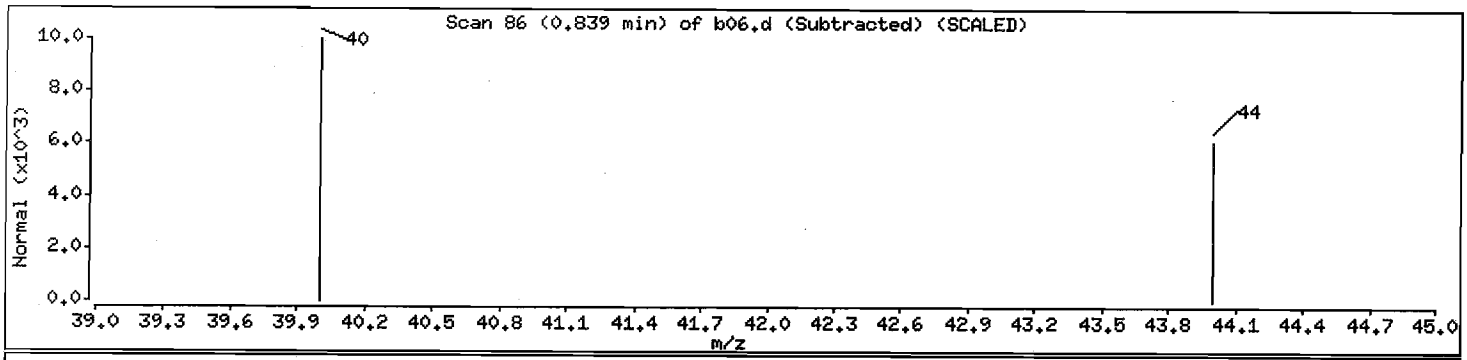
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b07.d
Lab Smp Id: 150ppb
Client Smp ID: 150ppb
Inj Date : 20-JUN-2011 18:27
Operator : rsw
Inst ID: 50MSV1.i
Smp Info : 150ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede
Quant Type: ISTD
Cal Date : 17-JUN-2011 20:08
Cal File: b08.d
Als bottle: 16
Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.915	0.918	(0.222)	153358	150.000	160
2 Chloromethane	50	0.994	0.996	(0.241)	105596	150.000	152
3 Vinyl Chloride	62	1.046	1.043	(0.254)	87733	150.000	148
4 Bromomethane	94	1.187	1.190	(0.288)	44627	150.000	175
5 Chloroethane	64	1.229	1.237	(0.298)	38914	150.000	158
6 Trichlorofluoromethane	101	1.350	1.352	(0.328)	112559	150.000	147
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	68645	150.000	136
7 Diethyl ether	74	1.475	1.477	(0.358)	17484	150.000	133
8 Acrolein	56	1.538	1.540	(0.373)	57805	3000.00	3270
9 1,1-Dichloroethene	96	1.601	1.603	(0.388)	49282	150.000	132
10 1,1,2trichlorotrifluoroethane	101	1.595	1.597	(0.387)	56145	150.000	135
11 Acetone	43	1.616	1.618	(0.392)	26378	750.000	739
12 Iodomethane	142	1.690	1.692	(0.410)	86144	300.000	296
142 Acetonitrile	41	1.789	1.786	(0.434)	122146	3000.00	2710
13 Carbon Disulfide	76	1.731	1.733	(0.420)	316830	300.000	259(M)
138 Methyl Acetate	43	1.794	1.791	(0.435)	13961	150.000	137
14 allyl chloride	41	1.789	1.786	(0.434)	123541	300.000	274(QM)
15 Methylene Chloride	84	1.857	1.859	(0.451)	43089	150.000	125
16 Acrylonitrile	53	1.998	2.000	(0.485)	124932	3000.00	2670
17 tert-Butyl Alcohol	59	1.914	1.917	(0.465)	4429	300.000	292
18 1,2-Dichloroethene (trans)	96	2.024	2.026	(0.491)	49732	150.000	127
19 Methyl-tert-butyl ether	73	2.029	2.026	(0.492)	158529	300.000	245
20 n-Hexane	57	2.207	2.209	(0.536)	87676	150.000	135

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
146 Chloroprene	53	2.385	2.387	(0.579)	99031	150.000	142
21 1,1-Dichloroethane	63	2.312	2.314	(0.561)	120181	150.000	146
23 Vinyl Acetate	43	2.343	2.345	(0.569)	270451	600.000	559
25 1,2-Dichloroethene (cis)	96	2.788	2.790	(0.676)	69222	150.000	145
24 2,2-Dichloropropane	77	2.788	2.790	(0.676)	97032	150.000	154
26 2-Butanone	43	2.804	2.800	(0.680)	57810	750.000	710
143 Methacrylonitrile	41	3.002	2.999	(0.728)	17508	750.000	776
29 Bromochloromethane	49	3.018	3.015	(0.732)	33386	150.000	128
30 Tetrahydrofuran	42	3.081	3.083	(0.748)	8401	150.000	80.8
31 Chloroform	83	3.102	3.104	(0.753)	123397	150.000	149
$ 32 Dibromofluoromethane (S)	113	3.274	3.276	(0.794)	16555	50.0000	50.0
33 1,1,1-Trichloroethane	97	3.300	3.308	(0.801)	107932	150.000	150
139 Cyclohexane	56	3.368	3.376	(0.817)	105507	150.000	135
37 Isobutyl alcohol	43	3.886	3.883	(0.943)	42465	150.000	141
36 1,1-Dichloropropene	75	3.499	3.496	(0.849)	93861	150.000	134
35 Carbon Tetrachloride	117	3.504	3.501	(0.850)	78943	150.000	137
144 isopropyl acetate	61	1.046	1.043	(0.254)	6827	150.000	153
147 2,2,4-Trimethylpentane	57	3.886	3.883	(0.943)	248770	150.000	143
38 Benzene	78	3.750	3.758	(0.910)	265356	150.000	134
39 1,2-Dichloroethane	62	3.776	3.768	(0.916)	60591	150.000	152
* 40 Fluorobenzene	96	4.122	4.118	(1.000)	73606	50.0000	
41 Trichloroethene	95	4.577	4.579	(1.110)	83814	150.000	153
140 Methylcyclohexane	55	4.801	4.798	(1.165)	100715	150.000	140
42 1,2-Dichloropropane	63	4.833	4.835	(1.173)	63261	150.000	143
43 Dibromomethane	93	4.969	4.971	(1.206)	30993	150.000	145
44 Methyl methacrylate	69	5.032	5.034	(1.221)	26261	150.000	147
45 Bromodichloromethane	83	5.173	5.170	(1.255)	85191	150.000	156
46 2-Chloroethyl vinyl ether	63	5.549	5.551	(0.761)	16115	300.000	250
47 cis-1,3-Dichloropropene	75	5.685	5.687	(0.779)	107374	150.000	161
48 4-Methyl-2-Pentanone	43	5.879	5.881	(0.806)	174618	750.000	679
$ 49 Toluene-d8	98	5.978	5.975	(0.819)	74291	50.0000	48.7
50 Toluene	91	6.046	6.048	(0.829)	292987	150.000	142
51 trans-1,3-Dichloropropene	75	6.308	6.305	(0.865)	84176	150.000	155
52 Ethyl Methacrylate	69	6.444	6.441	(0.883)	63333	150.000	150
53 1,1,2-Trichloroethane	83	6.486	6.482	(0.889)	42070	150.000	144
54 Tetrachloroethene	166	6.611	6.613	(0.906)	108926	150.000	146
55 1,3-Dichloropropane	76	6.637	6.634	(0.910)	76241	150.000	143
56 2-Hexanone	43	6.742	6.739	(0.924)	123782	750.000	733
57 Dibromochloromethane	129	6.831	6.833	(0.936)	55882	150.000	163
58 1,2-Dibromoethane	107	6.914	6.917	(0.948)	48005	150.000	150
* 59 Chlorobenzene-d5	117	7.296	7.298	(1.000)	66939	50.0000	
60 Chlorobenzene	112	7.317	7.319	(1.003)	205260	150.000	136
61 1,1,1,2-Tetrachloroethane	131	7.390	7.387	(1.013)	63753	150.000	154
62 Ethylbenzene	106	7.411	7.413	(1.016)	111505	150.000	130
63 m&p-Xylene	106	7.500	7.502	(1.028)	262053	300.000	309
65 o-Xylene	106	7.772	7.774	(1.065)	140918	150.000	134
66 Styrene	104	7.783	7.785	(1.067)	207548	150.000	131
67 Bromoform	173	7.898	7.900	(0.898)	35865	150.000	137
68 Isopropylbenzene	105	8.018	8.020	(1.099)	382120	150.000	132
69 trans-1,4-Dichloro-2-butene	53	8.243	8.240	(1.130)	13247	150.000	149
$ 70 4-Bromofluorobenzene	95	8.112	8.114	(1.112)	29314	50.0000	47.3
72 1,1,2,2-Tetrachloroethane	83	8.212	8.208	(0.934)	59212	150.000	146
71 Bromobenzene	77	8.201	8.203	(1.124)	157789	150.000	146
73 1,2,3-Trichloropropane	75	8.227	8.229	(0.936)	60206	150.000	158

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.274	8.276	(0.941)	425553	150.000	139
75 2-Chlorotoluene	91	8.321	8.323	(0.946)	257027	150.000	144
76 4-Chlorotoluene	126	8.327	8.323	(0.947)	84365	150.000	154
77 1,3,5-Trimethylbenzene	105	8.379	8.381	(0.953)	282865	150.000	142
78 tert-Butylbenzene	119	8.572	8.569	(0.975)	324684	150.000	147
79 1,2,4-Trimethylbenzene	105	8.599	8.595	(0.978)	277590	150.000	131
80 sec-Butylbenzene	105	8.693	8.695	(0.989)	416367	150.000	147
81 1,3-Dichlorobenzene	146	8.755	8.758	(0.996)	169872	150.000	144
83 p-Isopropyltoluene	119	8.776	8.773	(0.998)	300345	150.000	140
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.794	(1.000)	29802	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	156150	150.000	140
86 n-Butylbenzene	91	8.996	8.993	(1.023)	346399	150.000	151
85 1,2-Dichlorobenzene	146	9.006	9.009	(1.024)	143447	150.000	144
88 1,2,4-Trichlorobenzene	180	9.828	9.824	(1.118)	134532	150.000	153
91 1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	105717	150.000	153
87 1,2-Dibromo-3-chloropropane	155	9.409	9.411	(1.070)	8642	150.000	134
89 Hexachlorobutadiene	225	9.906	9.908	(1.127)	98295	150.000	150
90 Naphthalene	128	9.958	9.960	(1.133)	171851	150.000	140
92 2,methyl-naphthalene	142	10.581	10.583	(1.203)	108095	150.000	146

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b07.d
Lab Smp Id: 150ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: 150ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	73606	-2.21
59 Chlorobenzene-d5	69740	34870	139480	66939	-4.02
82 1,4-Dichlorobenze	33195	16598	66390	29802	-10.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.10
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.01

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	160	
74-87-3	Chloromethane	152	
75-01-4	Vinyl Chloride	148	
74-83-9	Bromomethane	175	
75-00-3	Chloroethane	158	
75-69-4	Trichlorofluoromethane	147	
354-23-4	1,2-dichlorotrifluoroethane	136	
60-29-7	Diethyl ether	133	
107-02-8	Acrolein	3270	
75-35-4	1,1-Dichloroethene	132	
76-13-1	1,1,2trichlorotrifluoroethan	135	
67-64-1	Acetone	739	
	Iodomethane	296	
75-05-8	Acetonitrile	2710	
75-15-0	Carbon Disulfide	259	
79-20-9	Methyl Acetate	137	
107-05-1	allyl chloride	274	
75-09-2	Methylene Chloride	125	
107-13-1	Acrylonitrile	2670	
75-65-0	tert-Butyl Alcohol	292	
156-60-5	1,2-Dichloroethene (trans)	127	
1634-04-4	Methyl-tert-butyl ether	245	
	n-Hexane	135	
126-99-8	Chloroprene	142	
75-34-3	1,1-Dichloroethane	146	
108-05-4	Vinyl Acetate	559	
156-59-2	1,2-Dichloroethene (cis)	145	
594-20-7	2,2-Dichloropropane	154	
78-93-3	2-Butanone	710	
126-98-7	Methacrylonitrile	776	
74-97-5	Bromochloromethane	128	
	Tetrahydrofuran	80.8	
67-66-3	Chloroform	149	
71-55-6	1,1,1-Trichloroethane	150	
110-82-7	Cyclohexane	135	
78-83-1	Isobutyl alcohol	141	
563-58-6	1,1-Dichloropropene	134	
56-23-5	Carbon Tetrachloride	137	
108-21-4	isopropyl acetate	153	
540-84-1	2,2,4-Trimethylpentane	143	
71-43-2	Benzene	134	
107-06-2	1,2-Dichloroethane	152	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	153	
108-87-2	Methylcyclohexane	140	
78-87-5	1,2-Dichloropropane	143	
74-95-3	Dibromomethane	145	
80-62-6	Methyl methacrylate	147	
75-27-4	Bromodichloromethane	156	
110-75-8	2-Chloroethyl vinyl ether	250	
10061-01-5	cis-1,3-Dichloropropene	161	
108-10-1	4-Methyl-2-Pentanone	679	
108-88-3	Toluene	142	
10061-02-6	trans-1,3-Dichloropropene	155	
	Ethyl Methacrylate	150	
79-00-5	1,1,2-Trichloroethane	144	
127-18-4	Tetrachloroethene	146	
142-28-9	1,3-Dichloropropane	143	
591-78-6	2-Hexanone	733	
124-48-1	Dibromochloromethane	163	
106-93-4	1,2-Dibromoethane	150	
108-90-7	Chlorobenzene	136	
630-20-6	1,1,1,2-Tetrachloroethane	154	
100-41-4	Ethylbenzene	130	
7816-60-0	m&p-Xylene	309	
95-47-6	o-Xylene	134	
100-42-5	Styrene	131	
75-25-2	Bromoform	137	
98-82-8	Isopropylbenzene	132	
	trans-1,4-Dichloro-2-butene	149	
79-34-5	1,1,2,2-Tetrachloroethane	146	
108-86-1	Bromobenzene	146	
96-18-4	1,2,3-Trichloropropane	158	
103-65-1	n-Propylbenzene	139	
95-49-8	2-Chlorotoluene	144	
106-43-4	4-Chlorotoluene	154	
108-67-8	1,3,5-Trimethylbenzene	142	
98-06-6	tert-Butylbenzene	147	
95-63-6	1,2,4-Trimethylbenzene	131	
135-98-8	sec-Butylbenzene	147	
541-73-1	1,3-Dichlorobenzene	144	
99-87-6	p-Isopropyltoluene	140	
106-46-7	1,4-Dichlorobenzene	140	
104-51-8	n-Butylbenzene	151	
95-50-1	1,2-Dichlorobenzene	144	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

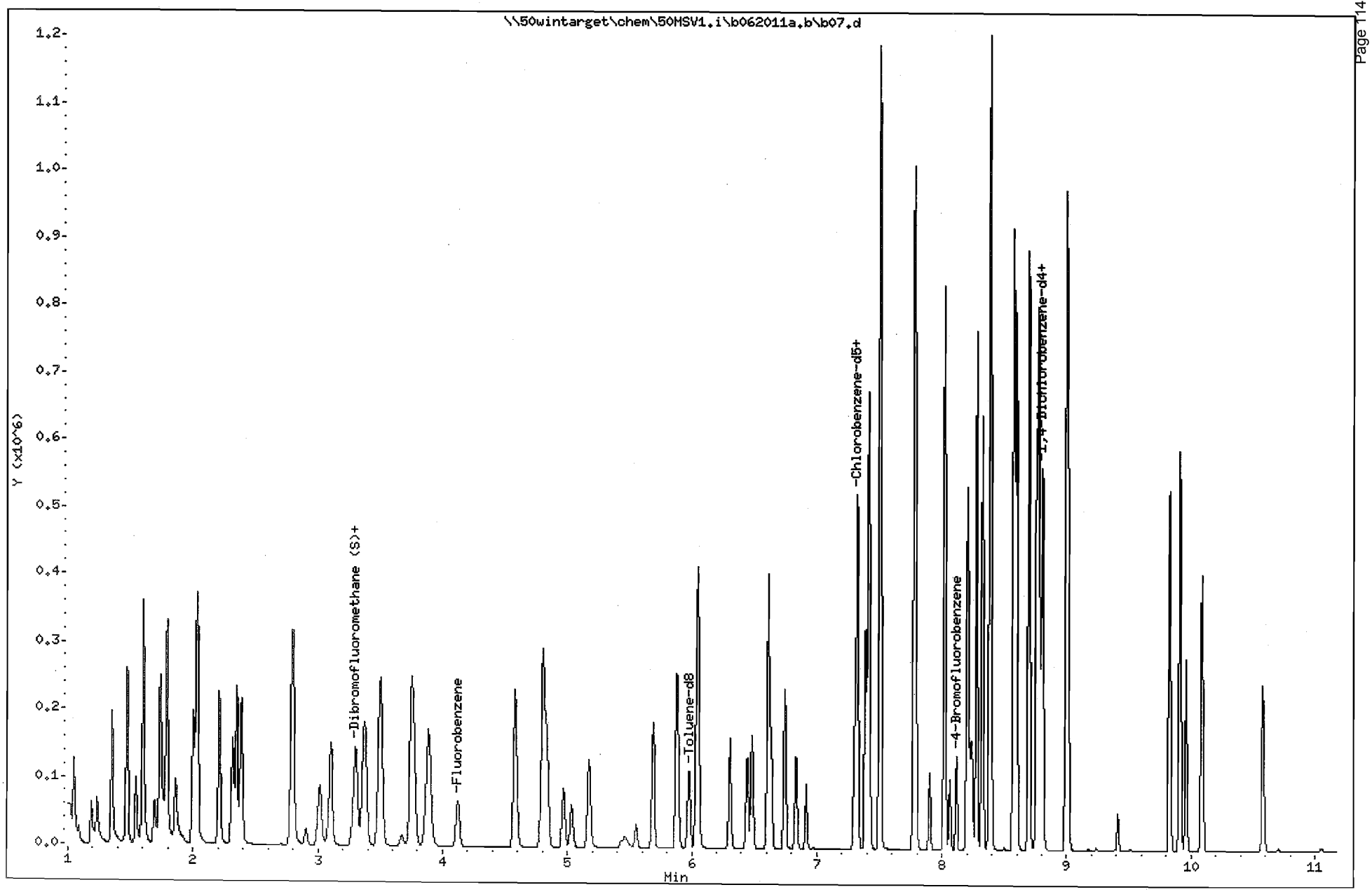
Client Name:
Lab Smp Id: 150ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 150ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	153	
87-61-6	1,2,3-Trichlorobenzene	153	
96-12-8	1,2-Dibromo-3-chloropropane	134	
87-68-3	Hexachlorobutadiene	150	
91-20-3	Naphthalene	140	
	2,methyl-naphthalene	146	
1868-53-7	Dibromofluoromethane (S)	50.0	
2037-26-5	Toluene-d8	48.7	
460-00-4	4-Bromofluorobenzene	47.3	

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b07.d
Date : 20-JUN-2011 18:27
Client ID: 150ppb
Sample Info: 150ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b07.d

Date : 20-JUN-2011 18:27

Client ID: 150ppb

Instrument: 50MSV1.i

Sample Info: 150ppb

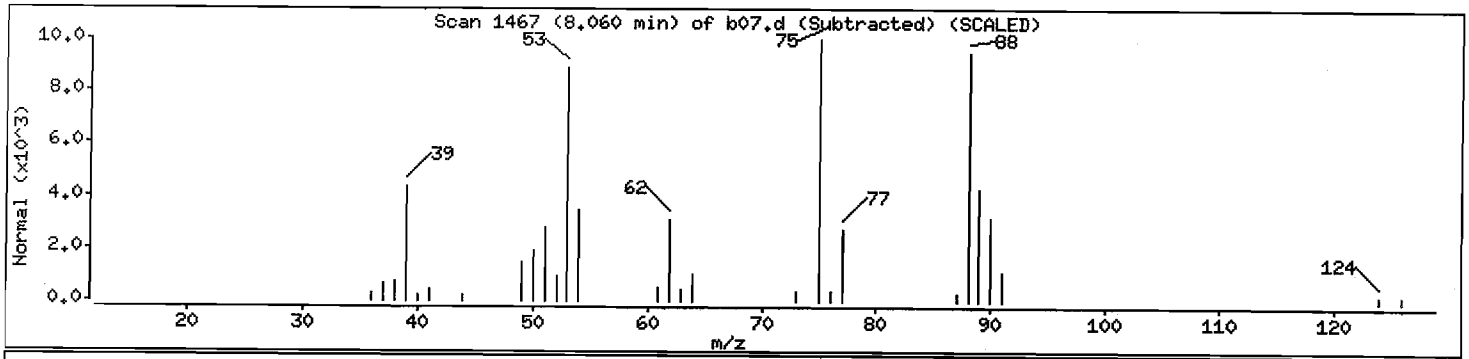
Purge Volume: 5.0

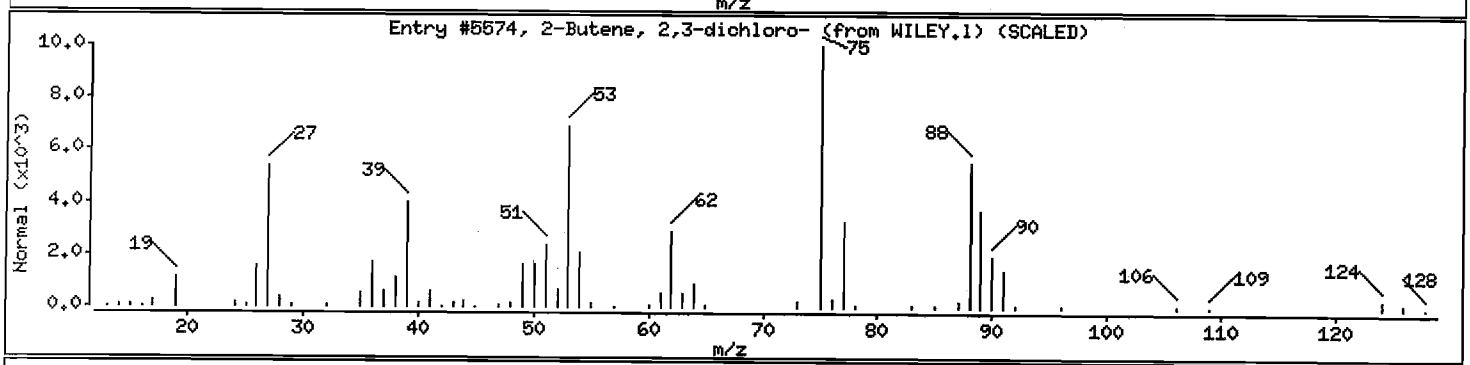
Operator: rsw

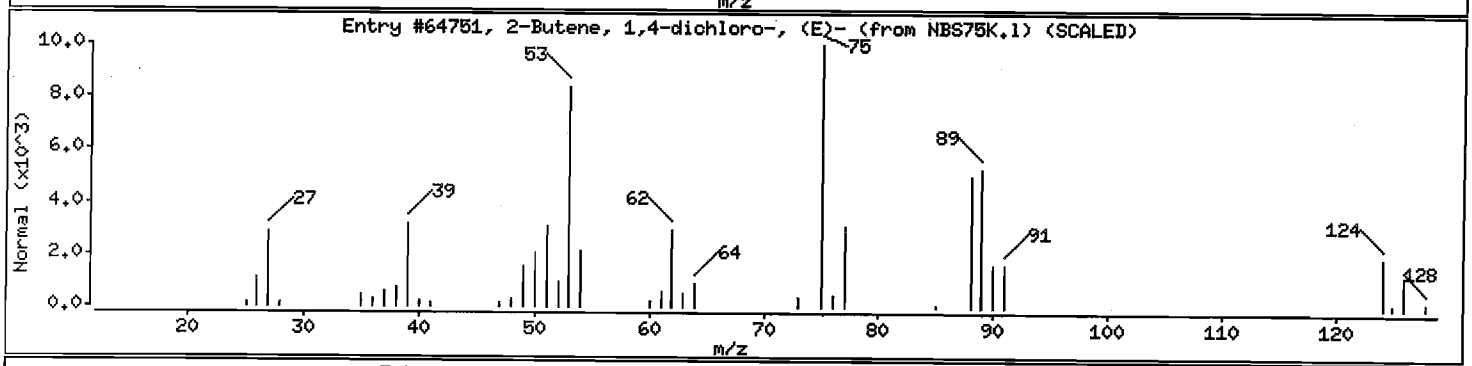
Column phase: DB-624

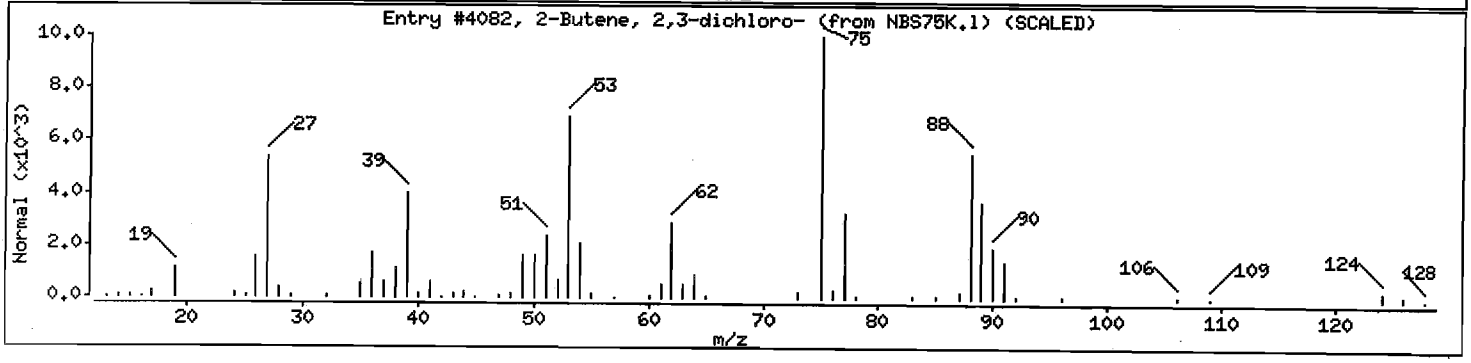
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	64	C4H6Cl2	124
2-Butene, 1,4-dichloro-, (E)-	110-57-6	NBS75K.l	64751	64	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	NBS75K.l	4082	64	C4H6Cl2	124









Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b08.d
Lab Smp Id: 300ppb Client Smp ID: 300ppb
Inj Date : 20-JUN-2011 19:02
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 300ppb
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede Quant Type: ISTD
Cal Date : 17-JUN-2011 20:08 Cal File: b08.d
Als bottle: 18 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.913	0.918	(0.222)	260555	300.000	283
2 Chloromethane	50	0.992	0.996	(0.241)	220475	300.000	330
3 Vinyl Chloride	62	1.044	1.043	(0.253)	151942	300.000	269
4 Bromomethane	94	1.180	1.190	(0.287)	69873	300.000	285
5 Chloroethane	64	1.227	1.237	(0.298)	68520	300.000	294
6 Trichlorofluoromethane	101	1.347	1.352	(0.327)	198679	300.000	271
28 1,2-dichlorotrifluoroethane	67	1.467	1.472	(0.356)	133786	300.000	276
7 Diethyl ether	74	1.478	1.477	(0.359)	34872	300.000	277
8 Acrolein	56	1.541	1.540	(0.374)	97755	6000.00	5820
9 1,1-Dichloroethene	96	1.598	1.603	(0.388)	101542	300.000	284
10 1,1,2trichlorotrifluoroethane	101	1.593	1.597	(0.387)	116851	300.000	294
11 Acetone	43	1.619	1.618	(0.393)	50561	1500.00	1500
12 Iodomethane	142	1.687	1.692	(0.410)	134793	600.000	480
142 Acetonitrile	41	1.786	1.786	(0.434)	224150	6000.00	5200
13 Carbon Disulfide	76	1.729	1.733	(0.420)	607490	600.000	518 (M)
138 Methyl Acetate	43	1.792	1.791	(0.435)	29875	300.000	305
14 allyl chloride	41	1.786	1.786	(0.434)	224150	600.000	520 (M)
15 Methylene Chloride	84	1.854	1.859	(0.450)	91161	300.000	276
16 Acrylonitrile	53	2.001	2.000	(0.486)	243532	6000.00	5440
17 tert-Butyl Alcohol	59	1.922	1.917	(0.467)	9619	600.000	662 (M)
18 1,2-Dichloroethene (trans)	96	2.027	2.026	(0.492)	98626	300.000	264
19 Methyl-tert-butyl ether	73	2.027	2.026	(0.492)	309130	600.000	499
20 n-Hexane	57	2.205	2.209	(0.535)	168229	300.000	270

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	146 Chloroprene	53	2.383	2.387	(0.579)	194466	300.000	292
	21 1,1-Dichloroethane	63	2.309	2.314	(0.561)	242866	300.000	308
	23 Vinyl Acetate	43	2.346	2.345	(0.570)	514471	1200.00	1110
	25 1,2-Dichloroethene (cis)	96	2.791	2.790	(0.678)	138049	300.000	302
	24 2,2-Dichloropropane	77	2.791	2.790	(0.678)	197929	300.000	329
	26 2-Butanone	43	2.806	2.800	(0.681)	117955	1500.00	1520
	143 Methacrylonitrile	41	3.005	2.999	(0.730)	37258	1500.00	1720
	29 Bromochloromethane	49	3.016	3.015	(0.732)	59497	300.000	239(M)
	30 Tetrahydrofuran	42	3.084	3.083	(0.749)	16327	300.000	164
	31 Chloroform	83	3.099	3.104	(0.752)	246521	300.000	310
$	32 Dibromofluoromethane (S)	113	3.272	3.276	(0.794)	15715	50.0000	49.6
	33 1,1,1-Trichloroethane	97	3.303	3.308	(0.802)	223531	300.000	325
	139 Cyclohexane	56	3.371	3.376	(0.818)	210247	300.000	280
	37 Isobutyl alcohol	43	3.884	3.883	(0.943)	87158	300.000	302
	36 1,1-Dichloropropene	75	3.502	3.496	(0.850)	196988	300.000	294
	35 Carbon Tetrachloride	117	3.502	3.501	(0.850)	170895	300.000	306
	144 isopropyl acetate	61	1.044	1.043	(0.253)	12129	300.000	284
	147 2,2,4-Trimethylpentane	57	3.884	3.883	(0.943)	504749	300.000	303
	38 Benzene	78	3.748	3.758	(0.910)	531562	300.000	280
	39 1,2-Dichloroethane	62	3.774	3.768	(0.916)	121535	300.000	317
*	40 Fluorobenzene	96	4.119	4.118	(1.000)	70493	50.0000	
	41 Trichloroethene	95	4.579	4.579	(1.112)	168979	300.000	323
	140 Methylcyclohexane	55	4.799	4.798	(1.165)	195366	300.000	284
	42 1,2-Dichloropropane	63	4.836	4.835	(1.174)	128394	300.000	302
	43 Dibromomethane	93	4.966	4.971	(1.206)	65511	300.000	319
	44 Methyl methacrylate	69	5.034	5.034	(1.222)	57062	300.000	334
	45 Bromodichloromethane	83	5.170	5.170	(1.255)	181815	300.000	349
	46 2-Chloroethyl vinyl ether	63	5.552	5.551	(0.761)	34661	600.000	543
	47 cis-1,3-Dichloropropene	75	5.688	5.687	(0.779)	212762	300.000	322
	48 4-Methyl-2-Pentanone	43	5.882	5.881	(0.806)	330504	1500.00	1300
$	49 Toluene-d8	98	5.976	5.975	(0.819)	69714	50.0000	46.2
	50 Toluene	91	6.049	6.048	(0.829)	609338	300.000	303
	51 trans-1,3-Dichloropropene	75	6.305	6.305	(0.864)	189193	300.000	351
	52 Ethyl Methacrylate	69	6.441	6.441	(0.882)	130792	300.000	312
	53 1,1,2-Trichloroethane	83	6.483	6.482	(0.888)	87852	300.000	303
	54 Tetrachloroethene	166	6.609	6.613	(0.905)	208212	300.000	281
	55 1,3-Dichloropropane	76	6.635	6.634	(0.909)	155169	300.000	294
	56 2-Hexanone	43	6.745	6.739	(0.924)	250087	1500.00	1500
	57 Dibromochloromethane	129	6.834	6.833	(0.936)	118415	300.000	349
	58 1,2-Dibromoethane	107	6.917	6.917	(0.948)	98161	300.000	310
*	59 Chlorobenzene-d5	117	7.299	7.298	(1.000)	66246	50.0000	
	60 Chlorobenzene	112	7.320	7.319	(1.003)	409603	300.000	275
	61 1,1,1,2-Tetrachloroethane	131	7.388	7.387	(1.012)	135295	300.000	331
	62 Ethylbenzene	106	7.414	7.413	(1.016)	220913	300.000	261
	63 m&p-Xylene	106	7.503	7.502	(1.028)	490078	600.000	593
	65 o-Xylene	106	7.775	7.774	(1.065)	265046	300.000	256
	66 Styrene	104	7.785	7.785	(1.067)	387350	300.000	247
	67 Bromoform	173	7.901	7.900	(0.898)	80015	300.000	306
	68 Isopropylbenzene	105	8.021	8.020	(1.099)	704907	300.000	246
	69 trans-1,4-Dichloro-2-butene	53	8.240	8.240	(1.129)	26580	300.000	300
$	70 4-Bromofluorobenzene	95	8.115	8.114	(1.112)	29329	50.0000	47.8
	72 1,1,2,2-Tetrachloroethane	83	8.209	8.208	(0.933)	120235	300.000	306
	71 Bromobenzene	77	8.204	8.203	(1.124)	279810	300.000	262
	73 1,2,3-Trichloropropane	75	8.230	8.229	(0.936)	126127	300.000	342(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
74 n-Propylbenzene	91	8.277	8.276	(0.941)	817501	300.000	276
75 2-Chlorotoluene	91	8.324	8.323	(0.946)	503765	300.000	293
76 4-Chlorotoluene	126	8.324	8.323	(0.946)	171720	300.000	324
77 1,3,5-Trimethylbenzene	105	8.382	8.381	(0.953)	519079	300.000	270
78 tert-Butylbenzene	119	8.570	8.569	(0.974)	614159	300.000	288
79 1,2,4-Trimethylbenzene	105	8.601	8.595	(0.978)	538019	300.000	264
80 sec-Butylbenzene	105	8.695	8.695	(0.989)	772151	300.000	282
81 1,3-Dichlorobenzene	146	8.758	8.758	(0.996)	329519	300.000	290
83 p-Isopropyltoluene	119	8.774	8.773	(0.998)	567985	300.000	274
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.794	(1.000)	28774	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.811	8.805	(1.002)	317813	300.000	295
86 n-Butylbenzene	91	8.994	8.993	(1.023)	644936	300.000	292
85 1,2-Dichlorobenzene	146	9.009	9.009	(1.024)	275619	300.000	286
88 1,2,4-Trichlorobenzene	180	9.825	9.824	(1.117)	266616	300.000	315
91 1,2,3-Trichlorobenzene	180	10.087	10.086	(1.147)	214601	300.000	321
87 1,2-Dibromo-3-chloropropane	155	9.412	9.411	(1.070)	19838	300.000	307
89 Hexachlorobutadiene	225	9.909	9.908	(1.127)	195884	300.000	309
90 Naphthalene	128	9.956	9.960	(1.132)	359466	300.000	304
92 2,methyl-naphthalene	142	10.578	10.583	(1.203)	228599	300.000	320

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b08.d
Lab Smp Id: 300ppb
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: 300ppb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	70493	-6.35
59 Chlorobenzene-d5	69740	34870	139480	66246	-5.01
82 1,4-Dichlorobenze	33195	16598	66390	28774	-13.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.04
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.02

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

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	283	
74-87-3	Chloromethane	330	
75-01-4	Vinyl Chloride	269	
74-83-9	Bromomethane	285	
75-00-3	Chloroethane	294	
75-69-4	Trichlorofluoromethane	271	
354-23-4	1,2-dichlorotrifluoroethane	276	
60-29-7	Diethyl ether	277	
107-02-8	Acrolein	5820	
75-35-4	1,1-Dichloroethene	284	
76-13-1	1,1,2trichlorotrifluoroethan	294	
67-64-1	Acetone	1500	
	Iodomethane	480	
75-05-8	Acetonitrile	5200	
75-15-0	Carbon Disulfide	518	
79-20-9	Methyl Acetate	305	
107-05-1	allyl chloride	520	
75-09-2	Methylene Chloride	276	
107-13-1	Acrylonitrile	5440	
75-65-0	tert-Butyl Alcohol	662	
156-60-5	1,2-Dichloroethene (trans)	264	
1634-04-4	Methyl-tert-butyl ether	499	
	n-Hexane	270	
126-99-8	Chloroprene	292	
75-34-3	1,1-Dichloroethane	308	
108-05-4	Vinyl Acetate	1110	
156-59-2	1,2-Dichloroethene (cis)	302	
594-20-7	2,2-Dichloropropane	329	
78-93-3	2-Butanone	1520	
126-98-7	Methacrylonitrile	1720	
74-97-5	Bromochloromethane	239	
	Tetrahydrofuran	164	
67-66-3	Chloroform	310	
71-55-6	1,1,1-Trichloroethane	325	
110-82-7	Cyclohexane	280	
78-83-1	Isobutyl alcohol	302	
563-58-6	1,1-Dichloropropene	294	
56-23-5	Carbon Tetrachloride	306	
108-21-4	isopropyl acetate	284	
540-84-1	2,2,4-Trimethylpentane	303	
71-43-2	Benzene	280	
107-06-2	1,2-Dichloroethane	317	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	323	
108-87-2	Methylcyclohexane	284	
78-87-5	1,2-Dichloropropane	302	
74-95-3	Dibromomethane	319	
80-62-6	Methyl methacrylate	334	
75-27-4	Bromodichloromethane	349	
110-75-8	2-Chloroethyl vinyl ether	543	
10061-01-5	cis-1,3-Dichloropropene	322	
108-10-1	4-Methyl-2-Pentanone	1300	
108-88-3	Toluene	303	
10061-02-6	trans-1,3-Dichloropropene	351	
	Ethyl Methacrylate	312	
79-00-5	1,1,2-Trichloroethane	303	
127-18-4	Tetrachloroethene	281	
142-28-9	1,3-Dichloropropane	294	
591-78-6	2-Hexanone	1500	
124-48-1	Dibromochloromethane	349	
106-93-4	1,2-Dibromoethane	310	
108-90-7	Chlorobenzene	275	
630-20-6	1,1,1,2-Tetrachloroethane	331	
100-41-4	Ethylbenzene	261	
7816-60-0	m&p-Xylene	593	
95-47-6	o-Xylene	256	
100-42-5	Styrene	247	
75-25-2	Bromoform	306	
98-82-8	Isopropylbenzene	246	
	trans-1,4-Dichloro-2-butene	300	
79-34-5	1,1,2,2-Tetrachloroethane	306	
108-86-1	Bromobenzene	262	
96-18-4	1,2,3-Trichloropropane	342	
103-65-1	n-Propylbenzene	276	
95-49-8	2-Chlorotoluene	293	
106-43-4	4-Chlorotoluene	324	
108-67-8	1,3,5-Trimethylbenzene	270	
98-06-6	tert-Butylbenzene	288	
95-63-6	1,2,4-Trimethylbenzene	264	
135-98-8	sec-Butylbenzene	282	
541-73-1	1,3-Dichlorobenzene	290	
99-87-6	p-Isopropyltoluene	274	
106-46-7	1,4-Dichlorobenzene	295	
104-51-8	n-Butylbenzene	292	
95-50-1	1,2-Dichlorobenzene	286	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 300ppb
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

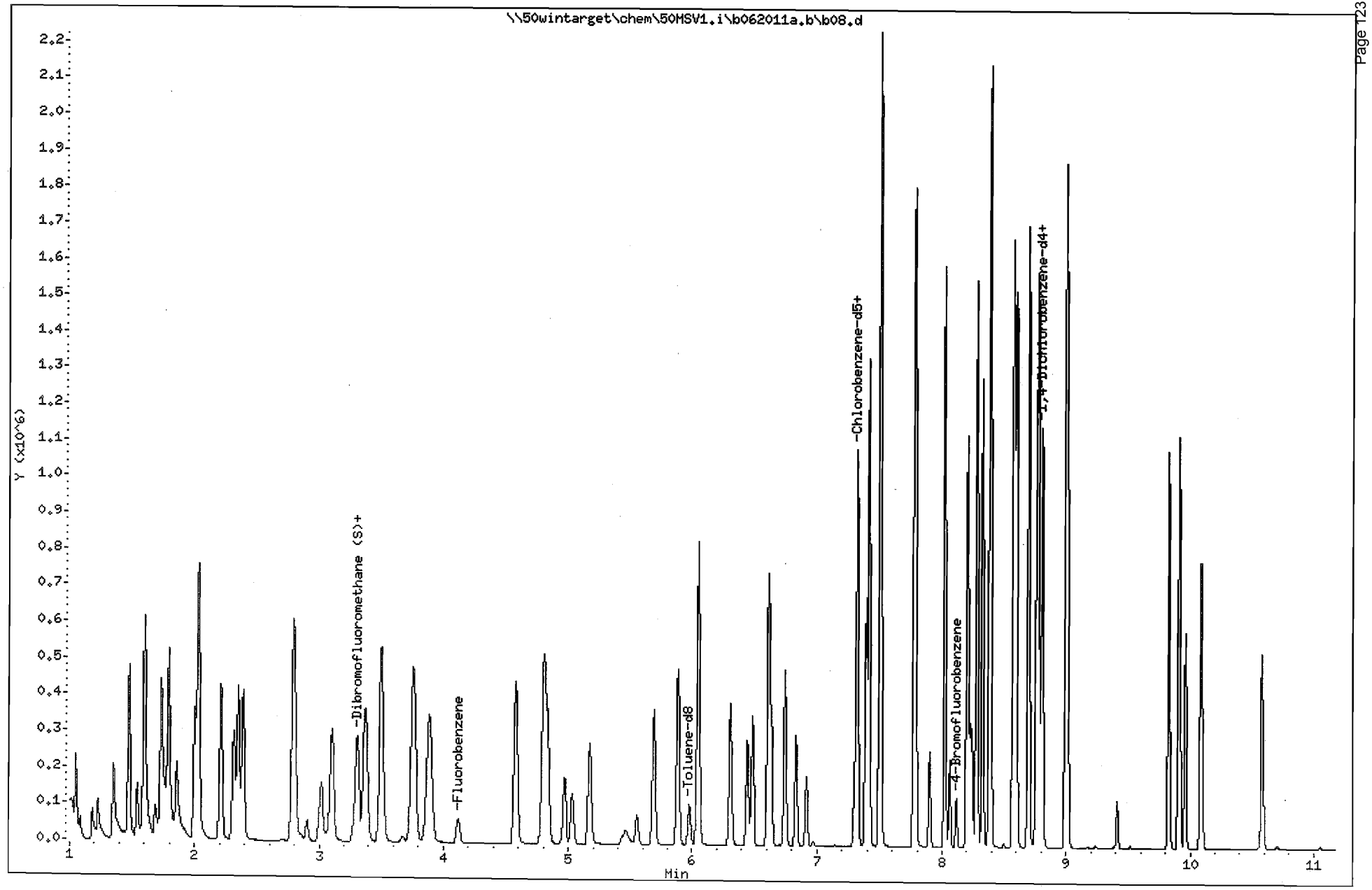
Client SDG: b062011a.b
Client Smp ID: 300ppb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
120-82-1	1,2,4-Trichlorobenzene	315	
87-61-6	1,2,3-Trichlorobenzene	321	
96-12-8	1,2-Dibromo-3-chloropropane	307	
87-68-3	Hexachlorobutadiene	309	
91-20-3	Naphthalene	304	
	2,methyl-naphthalene	320	
1868-53-7	Dibromofluoromethane (S)	49.6	
2037-26-5	Toluene-d8	46.2	
460-00-4	4-Bromofluorobenzene	47.8	

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b08.d
Date : 20-JUN-2011 19:02
Client ID: 300ppb
Sample Info: 300ppb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b08.d

Date : 20-JUN-2011 19:02

Client ID: 300ppb

Instrument: 50MSV1.i

Sample Info: 300ppb

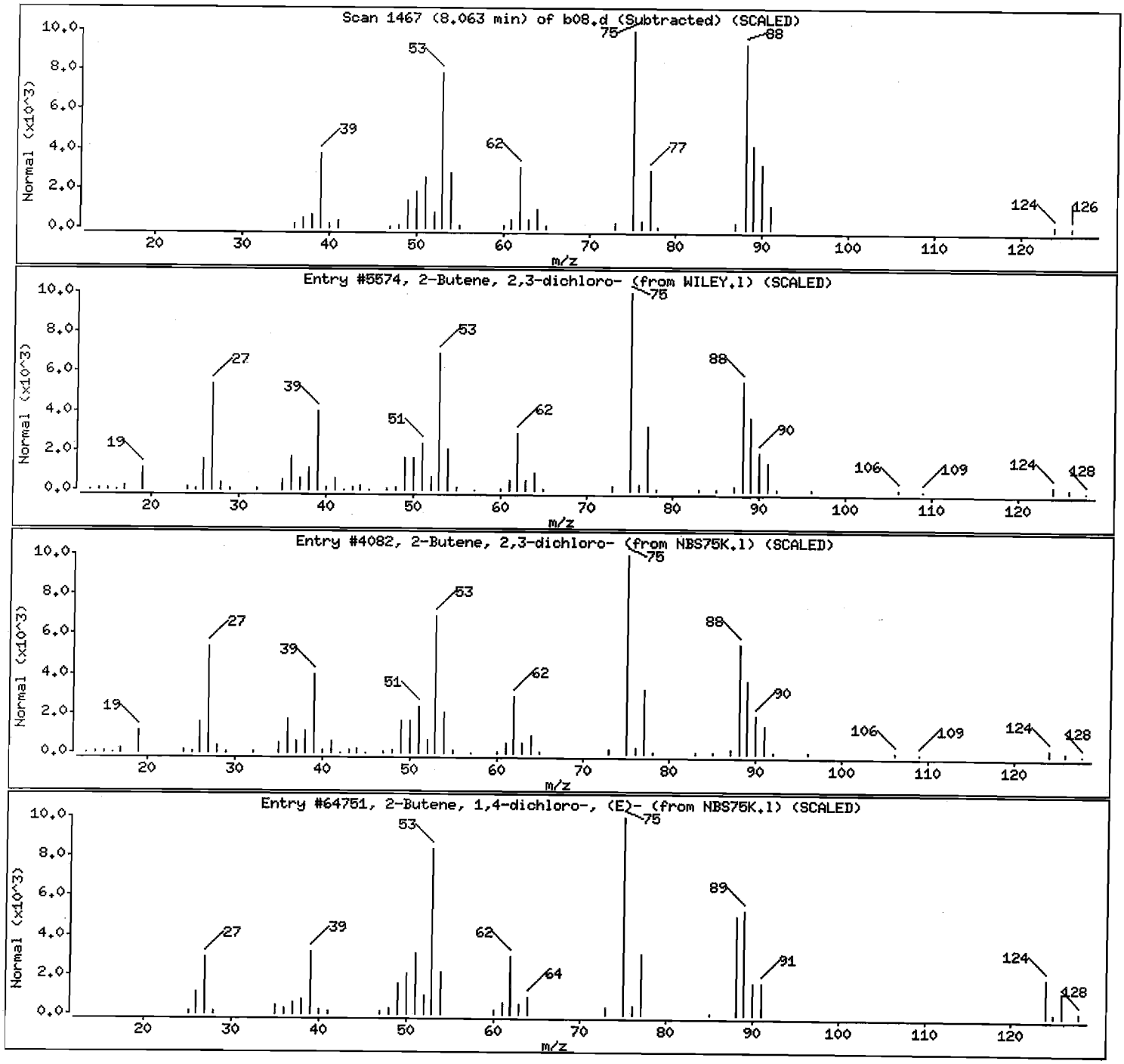
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Butene, 2,3-dichloro-	4279-21-4	WILEY.l	5574	94	C4H6Cl2	124
2-Butene, 2,3-dichloro-	4279-21-4	NBS75K.l	4082	94	C4H6Cl2	124
2-Butene, 1,4-dichloro-, (E)-	110-57-6	NBS75K.l	64751	64	C4H6Cl2	124



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062011a.b\b09icv.d
Lab Smp Id: icv 34D-449 Client Smp ID: icv
Inj Date : 20-JUN-2011 19:39
Operator : rsw Inst ID: 50MSV1.i
Smp Info : icv 34D-449
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Meth Date : 21-Jun-2011 11:31 rwrede Quant Type: ISTD
Cal Date : 20-JUN-2011 19:02 Cal File: b08.d
Als bottle: 20 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.916	0.918	(0.222)	48773	48.7131	48.7
2 Chloromethane	50	0.994	0.996	(0.241)	33952	46.7211	46.7
3 Vinyl Chloride	62	1.047	1.043	(0.254)	30900	49.6773	49.7
4 Bromomethane	94	1.193	1.190	(0.290)	11226	43.7760	43.8
5 Chloroethane	64	1.235	1.237	(0.300)	13343	49.9453	49.9
6 Trichlorofluoromethane	101	1.350	1.352	(0.328)	35973	45.1193	45.1
28 1,2-dichlorotrifluoroethane	67	1.470	1.472	(0.357)	27269	51.7570	51.8
7 Diethyl ether	74	1.476	1.477	(0.358)	6736	49.0605	49.1
8 Acrolein	56	1.538	1.540	(0.373)	35581	1898.94	1900(R)
9 1,1-Dichloroethene	96	1.601	1.603	(0.389)	18502	47.5412	47.5
10 1,1,2trichlorotrifluoroethane	101	1.596	1.597	(0.387)	20137	46.5148	46.5
11 Acetone	43	1.617	1.618	(0.392)	18561	492.123	492(R)
12 Iodomethane	142	1.690	1.692	(0.410)	24668	86.0499	86.0
142 Acetonitrile	41	1.789	1.786	(0.434)	41418	882.486	882
13 Carbon Disulfide	76	1.732	1.733	(0.420)	159350	124.775	125
138 Methyl Acetate	43	1.789	1.791	(0.434)	6610	62.8870	62.9
14 allyl chloride	41	1.789	1.786	(0.434)	41419	88.1368	88.1(M)
15 Methylene Chloride	84	1.857	1.859	(0.451)	15825	44.0650	44.1
16 Acrylonitrile	53	1.999	2.000	(0.485)	45380	931.236	931
17 tert-Butyl Alcohol	59	1.915	1.917	(0.465)	1404	88.7763	88.8
18 1,2-Dichloroethene (trans)	96	2.030	2.026	(0.493)	18454	45.3411	45.3
19 Methyl-tert-butyl ether	73	2.030	2.026	(0.493)	56934	84.3255	84.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
20 n-Hexane	57	2.213	2.209	(0.537)	36670	53.9845	54.0
146 Chloroprene	53	2.386	2.387	(0.579)	27152	37.3882	37.4
21 1,1-Dichloroethane	63	2.312	2.314	(0.561)	44059	51.3508	51.4
23 Vinyl Acetate	43	2.344	2.345	(0.569)	90239	178.907	179
25 1,2-Dichloroethene (cis)	96	2.794	2.790	(0.678)	26500	53.3215	53.3
24 2,2-Dichloropropane	77	2.794	2.790	(0.678)	34774	53.0260	53.0
26 2-Butanone	43	2.799	2.800	(0.679)	28113	329.517	330(R)
143 Methacrylonitrile	41	2.998	2.999	(0.727)	6571	279.380	279
29 Bromochloromethane	49	3.019	3.015	(0.732)	14435	53.2025	53.2
30 Tetrahydrofuran	42	3.087	3.083	(0.749)	3351	30.8890	30.9(R)
31 Chloroform	83	3.102	3.104	(0.753)	43843	50.6445	50.6
$ 32 Dibromofluoromethane (S)	113	3.275	3.276	(0.794)	17378	50.3480	50.3
33 1,1,1-Trichloroethane	97	3.306	3.308	(0.802)	38855	51.8560	51.8
139 Cyclohexane	56	3.369	3.376	(0.817)	40783	49.9287	49.9
37 Isobutyl alcohol	43	3.897	3.883	(0.945)	108450	345.463	345(QR)
36 1,1-Dichloropropene	75	3.500	3.496	(0.849)	36912	50.5537	50.6
35 Carbon Tetrachloride	117	3.500	3.501	(0.849)	29812	51.7210	51.7
144 isopropyl acetate	61	1.047	1.043	(0.254)	2295	49.3296	49.3(Q)
147 2,2,4-Trimethylpentane	57	3.881	3.883	(0.942)	89107	49.0761	49.1
38 Benzene	78	3.751	3.758	(0.910)	95707	46.3754	46.4
39 1,2-Dichloroethane	62	3.772	3.768	(0.915)	21311	51.1061	51.1
* 40 Fluorobenzene	96	4.122	4.118	(1.000)	76778	50.0000	
41 Trichloroethene	95	4.577	4.579	(1.110)	29457	51.6771	51.7
140 Methylcyclohexane	55	4.797	4.798	(1.164)	35639	47.5647	47.6
42 1,2-Dichloropropane	63	4.833	4.835	(1.173)	23335	50.4675	50.5
43 Dibromomethane	93	4.964	4.971	(1.204)	11184	50.0534	50.0
141 1,4-Dioxane	88	5.027	5.030	(1.219)	2203		(Q)
44 Methyl methacrylate	69	5.027	5.034	(1.219)	37111	199.709	200
45 Bromodichloromethane	83	5.168	5.170	(1.254)	29109	51.2576	51.2
46 2-Chloroethyl vinyl ether	63	5.555	5.551	(0.761)	2232	35.1035	35.1(R)
47 cis-1,3-Dichloropropene	75	5.686	5.687	(0.779)	36033	54.6740	54.7
48 4-Methyl-2-Pentanone	43	5.879	5.881	(0.806)	64302	253.546	254
$ 49 Toluene-d8	98	5.974	5.975	(0.819)	79263	52.7350	52.7
50 Toluene	91	6.047	6.048	(0.829)	116846	55.4147	55.4
51 trans-1,3-Dichloropropene	75	6.308	6.305	(0.865)	27120	50.5386	50.5
52 Ethyl Methacrylate	69	6.439	6.441	(0.882)	92677	222.240	222
53 1,1,2-Trichloroethane	83	6.481	6.482	(0.888)	14759	51.0706	51.1
54 Tetrachloroethene	166	6.612	6.613	(0.906)	35204	47.7000	47.7
55 1,3-Dichloropropane	76	6.633	6.634	(0.909)	28833	54.7707	54.8
56 2-Hexanone	43	6.742	6.739	(0.924)	53671	318.378	318
57 Dibromochloromethane	129	6.831	6.833	(0.936)	17833	52.7699	52.8
58 1,2-Dibromoethane	107	6.915	6.917	(0.948)	16970	53.8917	53.9
* 59 Chlorobenzene-d5	117	7.297	7.298	(1.000)	65997	50.0000	
60 Chlorobenzene	112	7.318	7.319	(1.003)	72970	49.2002	49.2
61 1,1,1,2-Tetrachloroethane	131	7.386	7.387	(1.012)	22563	55.3965	55.4
62 Ethylbenzene	106	7.412	7.413	(1.016)	41510	49.3097	49.3
63 m&p-Xylene	106	7.501	7.502	(1.028)	101056	114.551	114
65 o-Xylene	106	7.773	7.774	(1.065)	52476	50.8121	50.8
66 Styrene	104	7.783	7.785	(1.067)	83235	53.3605	53.4
67 Bromoform	173	7.898	7.900	(0.898)	11098	44.6828	44.7
68 Isopropylbenzene	105	8.019	8.020	(1.099)	133072	46.6813	46.7
69 trans-1,4-Dichloro-2-butene	53	8.238	8.240	(1.129)	17051	194.008	194(Q)
$ 70 4-Bromofluorobenzene	95	8.113	8.114	(1.112)	31328	51.2391	51.2
145 n-amyl acetate	70	7.924	7.922	(1.922)	56536		(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
72 1,1,2,2-Tetrachloroethane	83	8.207	8.208	(0.933)	21589	49.5219	49.5
71 Bromobenzene	77	8.202	8.203	(1.124)	64084	60.3493	60.3
73 1,2,3-Trichloropropane	75	8.238	8.229	(0.937)	39713	97.0691	97.1(Q)
74 n-Propylbenzene	91	8.275	8.276	(0.941)	169984	51.7159	51.7
75 2-Chlorotoluene	91	8.322	8.323	(0.946)	97840	51.3194	51.3
76 4-Chlorotoluene	126	8.322	8.323	(0.946)	31518	53.6001	53.6
77 1,3,5-Trimethylbenzene	105	8.379	8.381	(0.953)	110829	51.8406	51.8
78 tert-Butylbenzene	119	8.573	8.569	(0.975)	107804	45.6027	45.6
79 1,2,4-Trimethylbenzene	105	8.599	8.595	(0.978)	107714	47.5544	47.6
80 sec-Butylbenzene	105	8.693	8.695	(0.989)	164002	54.0171	54.0
81 1,3-Dichlorobenzene	146	8.756	8.758	(0.996)	66041	52.4379	52.4
83 p-Isopropyltoluene	119	8.777	8.773	(0.998)	120358	52.3228	52.3
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.794	(1.000)	31939	50.0000	(Q)
84 1,4-Dichlorobenzene	146	8.808	8.805	(1.002)	59680	49.9505	50.0
86 n-Butylbenzene	91	8.997	8.993	(1.023)	132806	54.1969	54.2
85 1,2-Dichlorobenzene	146	9.007	9.009	(1.024)	54632	51.1287	51.1
88 1,2,4-Trichlorobenzene	180	9.828	9.824	(1.118)	49201	52.3041	52.3
91 1,2,3-Trichlorobenzene	180	10.084	10.086	(1.147)	39801	53.7122	53.7
87 1,2-Dibromo-3-chloropropane	155	9.415	9.411	(1.071)	2857	47.6781	47.7
89 Hexachlorobutadiene	225	9.907	9.908	(1.127)	39268	55.7641	55.8
90 Naphthalene	128	9.959	9.960	(1.133)	66061	50.3739	50.4
92 2,methyl-naphthalene	142	10.581	10.583	(1.203)	48772	61.5744	61.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: b09icv.d
Lab Smp Id: icv 34D-449
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Calibration Date: 20-JUN-2011
Calibration Time: 21:24
Client Smp ID: icv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	76217	38109	152434	76778	0.74
59 Chlorobenzene-d5	67805	33903	135610	65997	-2.67
82 1,4-Dichlorobenze	34009	17005	68018	31939	-6.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.09
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.02
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.02

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: icv 34D-449
Level: LOW
Data Type: MS DATA
SpikeList File: 8260icv.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b062011a.b\-b8260_a_b.m
Misc Info:

Client SDG: b062011a.b
Fraction: VOA
Client Smp ID: icv
Operator: rsw
SampleType: ICV
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	48.7	97.43	70-130
2 Chloromethane	50.0	46.7	93.44	70-130
3 Vinyl Chloride	50.0	49.7	99.35	70-130
4 Bromomethane	50.0	43.8	87.55	70-130
5 Chloroethane	50.0	49.9	99.89	70-130
6 Trichlorofluoromet	50.0	45.1	90.24	70-130
28 1,2-dichlorotriflu	50.0	51.8	103.51	70-130
7 Diethyl ether	50.0	49.1	98.12	70-130
8 Acrolein	1000	1900	189.89*	70-130
9 1,1-Dichloroethene	50.0	47.5	95.08	70-130
10 1,1,2trichlorotrif	50.0	46.5	93.03	70-130
11 Acetone	250	492	196.85*	70-130
12 Iodomethane	100	86.0	86.05	70-130
13 Carbon Disulfide	100	125	124.77	70-130
138 Methyl Acetate	50.0	62.9	125.77	70-130
14 allyl chloride	100	88.1	88.14	70-130
15 Methylene Chloride	50.0	44.1	88.13	70-130
16 Acrylonitrile	1000	931	93.12	70-130
27 Propionitrile	50.0	0.000	NR *	70-130
18 1,2-Dichloroethene	50.0	45.3	90.68	70-130
19 Methyl-tert-butyl	100	84.3	84.33	70-130
20 n-Hexane	50.0	54.0	107.97	70-130
21 1,1-Dichloroethane	50.0	51.4	102.70	70-130
23 Vinyl Acetate	200	179	89.45	70-130
25 1,2-Dichloroethene	50.0	53.3	106.64	70-130
24 2,2-Dichloropropan	50.0	53.0	106.05	70-130
26 2-Butanone	250	330	131.81*	70-130
29 Bromochloromethane	50.0	53.2	106.41	70-130
30 Tetrahydrofuran	50.0	30.9	NR 61.78*	70-130
31 Chloroform	50.0	50.6	101.29	70-130
33 1,1,1-Trichloroeth	50.0	51.8	103.71	70-130
139 Cyclohexane	50.0	49.9	99.86	70-130
37 Isobutyl alcohol	50.0	345	NR 690.93*	70-130
36 1,1-Dichloropropen	50.0	50.6	101.11	70-130
35 Carbon Tetrachlori	50.0	51.7	103.44	70-130
38 Benzene	50.0	46.4	92.75	70-130
39 1,2-Dichloroethane	50.0	51.1	102.21	70-130
41 Trichloroethene	50.0	51.7	103.35	70-130
140 Methylcyclohexane	50.0	47.6	95.13	70-130
42 1,2-Dichloropropan	50.0	50.5	100.94	70-130

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
43 Dibromomethane	50.0	50.0	100.11	70-130
44 Methyl methacrylat	200	200	99.85	70-130
45 Bromodichlorometha	50.0	51.2	102.52	70-130
46 2-Chloroethyl viny	100	35.1	NTC 35.10*	70-130
47 cis-1,3-Dichloropr	50.0	54.7	109.35	70-130
48 4-Methyl-2-Pentano	250	254	101.42	70-130
50 Toluene	50.0	55.4	110.83	70-130
51 trans-1,3-Dichloro	50.0	50.5	101.08	70-130
52 Ethyl Methacrylate	200	222	111.12	70-130
53 1,1,2-Trichloroeth	50.0	51.1	102.14	70-130
54 Tetrachloroethene	50.0	47.7	95.40	70-130
55 1,3-Dichloropropan	50.0	54.8	109.54	70-130
56 2-Hexanone	250	318	127.35	70-130
57 Dibromochlorometha	50.0	52.8	105.54	70-130
58 1,2-Dibromoethane	50.0	53.9	107.78	70-130
60 Chlorobenzene	50.0	49.2	98.40	70-130
61 1,1,1,2-Tetrachlor	50.0	55.4	110.79	70-130
62 Ethylbenzene	50.0	49.3	98.62	70-130
63 m&p-Xylene	100	114	114.55	70-130
65 o-Xylene	50.0	50.8	101.62	70-130
66 Styrene	50.0	53.4	106.72	70-130
67 Bromoform	50.0	44.7	89.37	70-130
68 Isopropylbenzene	50.0	46.7	93.36	70-130
69 trans-1,4-Dichloro	200	194	97.00	70-130
72 1,1,2,2-Tetrachlor	50.0	49.5	99.04	70-130
71 Bromobenzene	50.0	60.3	120.70	70-130
73 1,2,3-Trichloropro	100	97.1	97.07	70-130
74 n-Propylbenzene	50.0	51.7	103.43	70-130
75 2-Chlorotoluene	50.0	51.3	102.64	70-130
76 4-Chlorotoluene	50.0	53.6	107.20	70-130
77 1,3,5-Trimethylben	50.0	51.8	103.68	70-130
78 tert-Butylbenzene	50.0	45.6	91.21	70-130
79 1,2,4-Trimethylben	50.0	47.6	95.11	70-130
80 sec-Butylbenzene	50.0	54.0	108.03	70-130
81 1,3-Dichlorobenzen	50.0	52.4	104.88	70-130
83 p-Isopropyltoluene	50.0	52.3	104.65	70-130
84 1,4-Dichlorobenzen	50.0	50.0	99.90	70-130
86 n-Butylbenzene	50.0	54.2	108.39	70-130
85 1,2-Dichlorobenzen	50.0	51.1	102.26	70-130
88 1,2,4-Trichloroben	50.0	52.3	104.61	70-130
91 1,2,3-Trichloroben	50.0	53.7	107.42	70-130
87 1,2-Dibromo-3-chlo	50.0	47.7	95.36	70-130
89 Hexachlorobutadien	50.0	55.8	111.53	70-130
90 Naphthalene	50.0	50.4	100.75	70-130
92 2,methyl-naphthale	50.0	61.6	123.15	70-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.3	100.70	82-122
$ 49 Toluene-d8	50.0	52.7	105.47	80-120

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 70 4-Bromofluorobenze	50.0	51.2	102.48	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-449
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	48.7	
74-87-3	Chloromethane	46.7	
75-01-4	Vinyl Chloride	49.7	
74-83-9	Bromomethane	43.8	
75-00-3	Chloroethane	49.9	
75-69-4	Trichlorofluoromethane	45.1	
354-23-4	1,2-dichlorotrifluoroethane	51.8	
60-29-7	Diethyl ether	49.1	
107-02-8	Acrolein	1900	
75-35-4	1,1-Dichloroethene	47.5	
76-13-1	1,1,2trichlorotrifluoroethan	46.5	
67-64-1	Acetone	492	
	Iodomethane	86.0	
75-05-8	Acetonitrile	882	
75-15-0	Carbon Disulfide	125	
79-20-9	Methyl Acetate	62.9	
107-05-1	allyl chloride	88.1	
75-09-2	Methylene Chloride	44.1	
107-13-1	Acrylonitrile	931	
75-65-0	tert-Butyl Alcohol	88.8	
156-60-5	1,2-Dichloroethene (trans)	45.3	
1634-04-4	Methyl-tert-butyl ether	84.3	
	n-Hexane	54.0	
126-99-8	Chloroprene	37.4	
75-34-3	1,1-Dichloroethane	51.4	
108-05-4	Vinyl Acetate	179	
156-59-2	1,2-Dichloroethene (cis)	53.3	
594-20-7	2,2-Dichloropropane	53.0	
78-93-3	2-Butanone	330	
126-98-7	Methacrylonitrile	279	
74-97-5	Bromochloromethane	53.2	
	Tetrahydrofuran	30.9	
67-66-3	Chloroform	50.6	
71-55-6	1,1,1-Trichloroethane	51.8	
110-82-7	Cyclohexane	49.9	
78-83-1	Isobutyl alcohol	345	
563-58-6	1,1-Dichloropropene	50.6	
56-23-5	Carbon Tetrachloride	51.7	
108-21-4	isopropyl acetate	49.3	
540-84-1	2,2,4-Trimethylpentane	49.1	
71-43-2	Benzene	46.4	
107-06-2	1,2-Dichloroethane	51.1	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-449
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

Client SDG: b062011a.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	51.7	
108-87-2	Methylcyclohexane	47.6	
78-87-5	1,2-Dichloropropane	50.5	
74-95-3	Dibromomethane	50.0	
	1,4-Dioxane	0.000	
80-62-6	Methyl methacrylate	200	
75-27-4	Bromodichloromethane	51.2	
110-75-8	2-Chloroethyl vinyl ether	35.1	
10061-01-5	cis-1,3-Dichloropropene	54.7	
108-10-1	4-Methyl-2-Pentanone	254	
108-88-3	Toluene	55.4	
10061-02-6	trans-1,3-Dichloropropene	50.5	
	Ethyl Methacrylate	222	
79-00-5	1,1,2-Trichloroethane	51.1	
127-18-4	Tetrachloroethene	47.7	
142-28-9	1,3-Dichloropropane	54.8	
591-78-6	2-Hexanone	318	
124-48-1	Dibromochloromethane	52.8	
106-93-4	1,2-Dibromoethane	53.9	
108-90-7	Chlorobenzene	49.2	
630-20-6	1,1,1,2-Tetrachloroethane	55.4	
100-41-4	Ethylbenzene	49.3	
7816-60-0	m&p-Xylene	114	
95-47-6	o-Xylene	50.8	
100-42-5	Styrene	53.4	
75-25-2	Bromoform	44.7	
98-82-8	Isopropylbenzene	46.7	
	trans-1,4-Dichloro-2-butene	194	
628-63-7	n-amyl acetate	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	49.5	
108-86-1	Bromobenzene	60.3	
96-18-4	1,2,3-Trichloropropane	97.1	
103-65-1	n-Propylbenzene	51.7	
95-49-8	2-Chlorotoluene	51.3	
106-43-4	4-Chlorotoluene	53.6	
108-67-8	1,3,5-Trimethylbenzene	51.8	
98-06-6	tert-Butylbenzene	45.6	
95-63-6	1,2,4-Trimethylbenzene	47.6	
135-98-8	sec-Butylbenzene	54.0	
541-73-1	1,3-Dichlorobenzene	52.4	
99-87-6	p-Isopropyltoluene	52.3	
106-46-7	1,4-Dichlorobenzene	50.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: icv 34D-449
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info:

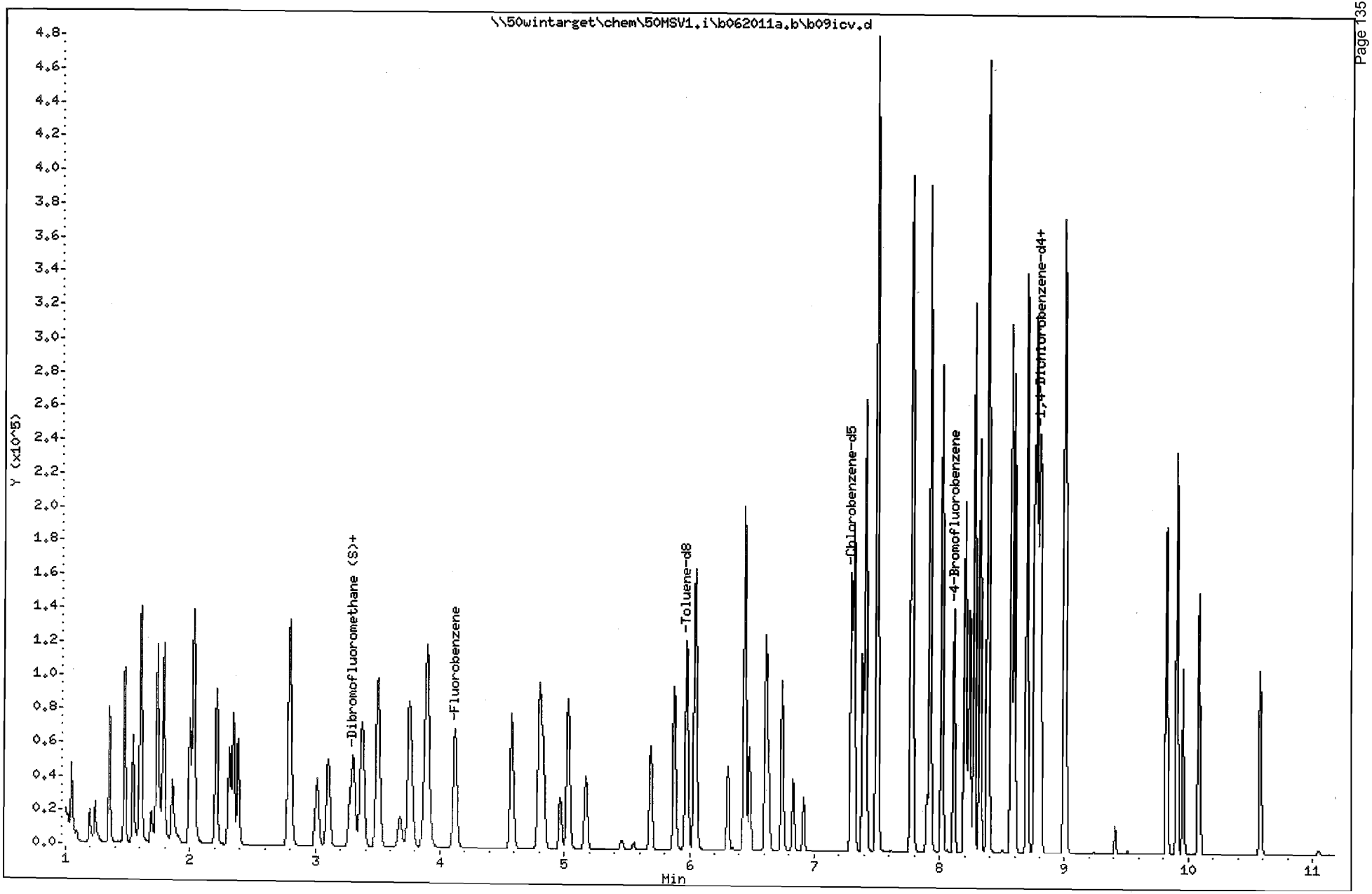
Client SDG: b062011a.b
Client Smp ID: icv
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	54.2	
95-50-1	1,2-Dichlorobenzene	51.1	
120-82-1	1,2,4-Trichlorobenzene	52.3	
87-61-6	1,2,3-Trichlorobenzene	53.7	
96-12-8	1,2-Dibromo-3-chloropropane	47.7	
87-68-3	Hexachlorobutadiene	55.8	
91-20-3	Naphthalene	50.4	
	2,methyl-naphthalene	61.6	
1868-53-7	Dibromofluoromethane (S)	50.3	
2037-26-5	Toluene-d8	52.7	
460-00-4	4-Bromofluorobenzene	51.2	

Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b09icv.d
Date : 20-JUN-2011 19:39
Client ID: icv
Sample Info: icv 34D-449
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062011a.b\b09icv.d

Date : 20-JUN-2011 19:39

Client ID: icv

Instrument: 50MSV1.i

Sample Info: icv 34D-449

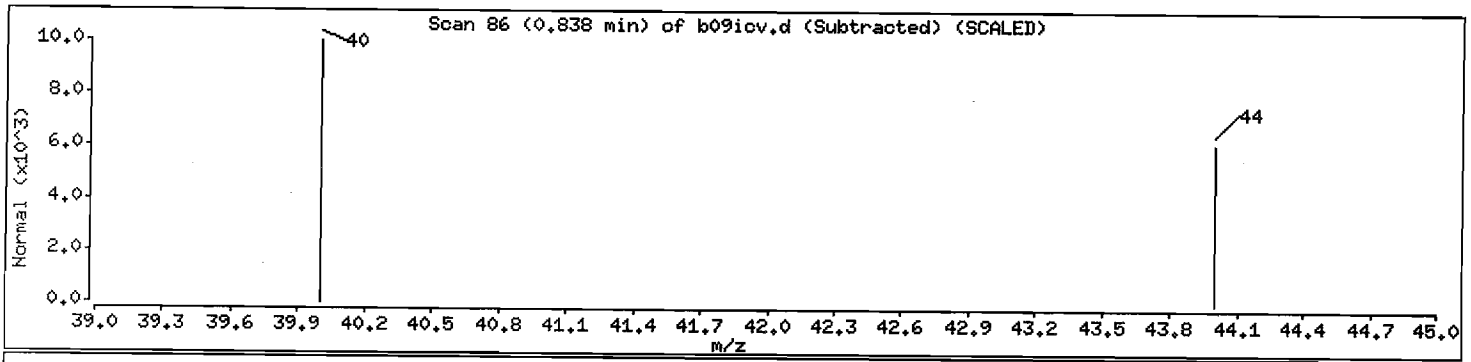
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 3: Calibration Verification Data

** BFB Summary (Form 5A)*
** Calibration Verification Summary (Form 7A)*
** BFB Tune*
** Calibration Verification Standards*

5A

BFB ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B062211.B

Lab File ID: D01BFB BFB Injection Date: 06/23/11

Instrument ID: 50MSV1 BFB Injection Time: 0045

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	45.4
95	Base Peak, 100% relative abundance	100.0
95	100.0 - 100.0% of mass 95	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	90.8
175	5.0 - 9.0% of mass 174	6.8 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	91.4 (100.6)1
177	5.0 - 9.0% of mass 176	6.3 (6.9)2

1-Value is % of mass 174 2-Value is % of mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	D01CCV	06/23/11	0045
02	LCS	589165	D02LCS	06/23/11	0118
03	MB	589164	D03MB	06/23/11	0154
04	5049996001	5049996001	D04	06/23/11	0231
05	MS5049996001	589162	D05	06/23/11	0306
06	MSD504999600	589163	D06	06/23/11	0341
07	5049579006	5049579006	D07	06/23/11	0415
08	5049579006	5049579006	D08	06/23/11	0449
09	5050010001	5050010001	D09	06/23/11	0524
10	MS5050010001	589166	D10	06/23/11	0558
11	MSD505001000	589167	D11	06/23/11	0634
12	5050010002	5050010002	D12	06/23/11	0707
13	5050012001	5050012001	D13	06/23/11	0743
14	5050013001	5050013001	D14	06/23/11	0816
15	5050013002	5050013002	D15	06/23/11	0850
16	5050013003	5050013003	D16	06/23/11	0923
17	5050013004	5050013004	D17	06/23/11	0957
18					
19					
20					
21					
22					

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B062211.B

Instrument ID: 50MSV1 Calibration Date: 06/23/11 Time: 0045

Lab File ID: D01CCV Init. Calib. Date(s): 06/20/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Bromochloromethane	60.589	50.000	AVRG	-21.18	<-
Chloromethane	41.238	50.000	AVRG	17.524	
Bromomethane	30.850	50.000	LINR	38.300	<-
Vinyl Chloride	41.295	50.000	LINR	17.410	
Chloroethane	44.101	50.000	LINR	11.798	
Methylene Chloride	54.436	50.000	AVRG	-8.872	
1,1-Dichloroethene	58.620	50.000	AVRG	-17.24	
1,1-Dichloroethane	45.369	50.000	AVRG	9.2620	
1,2-Dichloroethene (trans)	55.519	50.000	AVRG	-11.04	
Chloroform	59.203	50.000	AVRG	-18.41	
1,2-Dichloroethane	58.824	50.000	AVRG	-17.65	
1,1,1-Trichloroethane	57.609	50.000	AVRG	-15.22	
Carbon Tetrachloride	55.114	50.000	LINR	-10.23	
Bromodichloromethane	58.726	50.000	AVRG	-17.45	
1,2-Dichloropropane	58.257	50.000	AVRG	-16.51	
trans-1,3-Dichloropropene	54.645	50.000	AVRG	-9.290	
Trichloroethene	61.191	50.000	AVRG	-22.38	<-
Dibromochloromethane	59.106	50.000	AVRG	-18.21	
1,1,2-Trichloroethane	57.581	50.000	AVRG	-15.16	
Benzene	53.605	50.000	AVRG	-7.210	
cis-1,3-Dichloropropene	57.835	50.000	AVRG	-15.67	
Bromoform	45.062	50.000	LINR	9.8760	
Tetrachloroethene	64.987	50.000	AVRG	-29.97	<-
1,1,2,2-Tetrachloroethane	#53.864	50.000	AVRG	-7.728#	
Toluene	58.635	50.000	LINR	-17.27	
Chlorobenzene	#54.773	50.000	AVRG	-9.546#	
Ethylbenzene	52.290	50.000	AVRG	-4.580	
Styrene	52.737	50.000	AVRG	-5.474	
Trichlorofluoromethane	41.860	50.000	AVRG	16.280	
m&p-Xylene	118.29	100.00	LINR	-18.29	
1,2-Dichloroethene (cis)	61.298	50.000	AVRG	-22.60	<-
o-Xylene	52.084	50.000	AVRG	-4.168	
1,2,3-Trichloropropane	55.139	50.000	AVRG	-10.28	
1,3-Dichlorobenzene	52.530	50.000	AVRG	-5.060	
1,4-Dichlorobenzene	48.146	50.000	AVRG	3.7080	
Dibromomethane	58.184	50.000	AVRG	-16.37	
1,2-Dichlorobenzene	52.616	50.000	AVRG	-5.232	
Dichlorodifluoromethane	39.128	50.000	AVRG	21.744	<-

FORM VII VOA 1/87 Rev.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B062211.B

Instrument ID: 50MSV1 Calibration Date: 06/23/11 Time: 0045

Lab File ID: D01CCV Init. Calib. Date(s): 06/20/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
2,2-Dichloropropane	59.011	50.000	AVRG	-18.02	
1,1-Dichloropropene	58.988	50.000	AVRG	-17.98	
1,3-Dichloropropane	60.024	50.000	AVRG	-20.05	<-
1,2-Dibromoethane	56.669	50.000	AVRG	-13.34	
1,1,1,2-Tetrachloroethane	58.495	50.000	AVRG	-16.99	
Isopropylbenzene	54.078	50.000	AVRG	-8.156	
Bromobenzene	56.685	50.000	AVRG	-13.37	
n-Propylbenzene	54.852	50.000	AVRG	-9.704	
2-Chlorotoluene	54.779	50.000	AVRG	-9.558	
4-Chlorotoluene	56.346	50.000	AVRG	-12.69	
1,3,5-Trimethylbenzene	52.817	50.000	AVRG	-5.634	
tert-Butylbenzene	54.512	50.000	AVRG	-9.024	
1,2,4-Trimethylbenzene	50.699	50.000	AVRG	-1.398	
sec-Butylbenzene	55.509	50.000	AVRG	-11.02	
p-Isopropyltoluene	55.222	50.000	AVRG	-10.44	
n-Butylbenzene	51.491	50.000	AVRG	-2.982	
1,2-Dibromo-3-chloropropane	47.324	50.000	LINR	5.3520	
1,2,4-Trichlorobenzene	46.908	50.000	AVRG	6.1840	
Hexachlorobutadiene	52.543	50.000	AVRG	-5.086	
Naphthalene	50.205	50.000	AVRG	-0.410	
1,2,3-Trichlorobenzene	49.768	50.000	AVRG	0.4640	
Acrolein	873.18	1000.0	LINR	12.682	
Carbon Disulfide	115.59	100.00	AVRG	-15.59	
Acetone	315.25	250.00	LINR	-26.10	<-
Acrylonitrile	1155.1	1000.0	AVRG	-15.51	
Vinyl Acetate	163.11	200.00	AVRG	18.445	
2-Butanone	323.85	250.00	LINR	-29.54	<-
2-Chloroethyl vinyl ether	140.66	100.00	AVRG	-40.66	<-
4-Methyl-2-Pentanone	273.73	250.00	AVRG	-9.492	
2-Hexanone	300.04	250.00	LINR	-20.02	<-
Methyl-tert-butyl ether	111.71	100.00	AVRG	-11.71	
Iodomethane	87.173	100.00	LINR	12.827	
trans-1,4-Dichloro-2-butene	49.147	50.000	LINR	1.7060	
Ethyl Methacrylate	60.016	50.000	AVRG	-20.03	<-
2,methyl-naphthalene	49.164	50.000	AVRG	1.6720	
n-Hexane	49.002	50.000	AVRG	1.9960	
1,1,2trichlorotrifluoroetha	59.533	50.000	AVRG	-19.07	
1,2-dichlorotrifluoroethane	59.593	50.000	AVRG	-19.19	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: B062211.B

Instrument ID: 50MSV1 Calibration Date: 06/23/11 Time: 0045

Lab File ID: D01CCV Init. Calib. Date(s): 06/20/11

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND	SAMPLE AMOUNT	CAL50 AMOUNT	CURVE	%D	
Tetrahydrofuran	31.705	50.000	AVRG	36.590	<-
allyl chloride	122.93	100.00	AVRG	-22.93	<-
Diethyl ether	60.093	50.000	AVRG	-20.19	<-
Isobutyl alcohol	61.277	50.000	AVRG	-22.55	<-
Methyl methacrylate	61.251	50.000	AVRG	-22.50	<-
Propionitrile	54.523	50.000	AVRG	-9.046	
tert-Butyl Alcohol	102.54	100.00	AVRG	-2.540	
Methyl Acetate	61.240	50.000	LINR	-22.48	<-
Cyclohexane	58.249	50.000	AVRG	-16.50	
Methylcyclohexane	60.525	50.000	AVRG	-21.05	<-
1,4-Dioxane	0.0000	1000.0	AVRG	100.00	<-
Acetonitrile	1230.9	1000.0	AVRG	-23.09	<-
Methacrylonitrile	295.49	250.00	AVRG	-18.20	
isopropyl acetate	40.864	50.000	AVRG	18.272	
n-amyl acetate	0.0000	50.000	AVRG	100.00	<-
Chloroprene	44.699	50.000	AVRG	10.602	
2,2,4-Trimethylpentane	61.799	50.000	AVRG	-23.60	<-
Toluene-d8	49.657	50.000	AVRG	0.6860	
4-Bromofluorobenzene	47.761	50.000	AVRG	4.4780	
Dibromofluoromethane (S)	50.357	50.000	AVRG	-0.714	

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062211.b\d01bfb.d
Lab Smp Id: bfb050 34D-354 Client Smp ID: bfb050
Inj Date : 23-JUN-2011 00:45 MS Autotune Date: 21-AUG-1992 10:13
Operator : rsw Inst ID: 50MSV1.i
Smp Info : ccv
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062211.b\-bfb390.m
Meth Date : 28-Jun-2011 16:55 rwrede Quant Type: ISTD
Cal Date : 25-MAY-2001 16:00 Cal File: 0201002.D
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.112	8.417	(0.000)	95	26344			100.00- 100.00	100.00
8.112	8.417	(0.000)	50	4353			15.00- 40.00	16.52
8.112	8.417	(0.000)	75	11951			30.00- 60.00	45.37
8.112	8.417	(0.000)	96	1781			5.00- 9.00	6.76
8.112	8.417	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
8.112	8.417	(0.000)	174	23936			50.00- 100.00	90.86
8.112	8.417	(0.000)	175	1801			5.00- 9.00	7.52
8.112	8.417	(0.000)	176	24072			95.00- 101.00	100.57
8.112	8.417	(0.000)	177	1653			5.00- 9.00	6.87
8.112	8.417	(0.000)	95	26344			100.00- 100.00	100.00

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d01bfb.d

Date : 23-JUN-2011 00:45

Client ID: bfb050

Instrument: 50MSV1.i

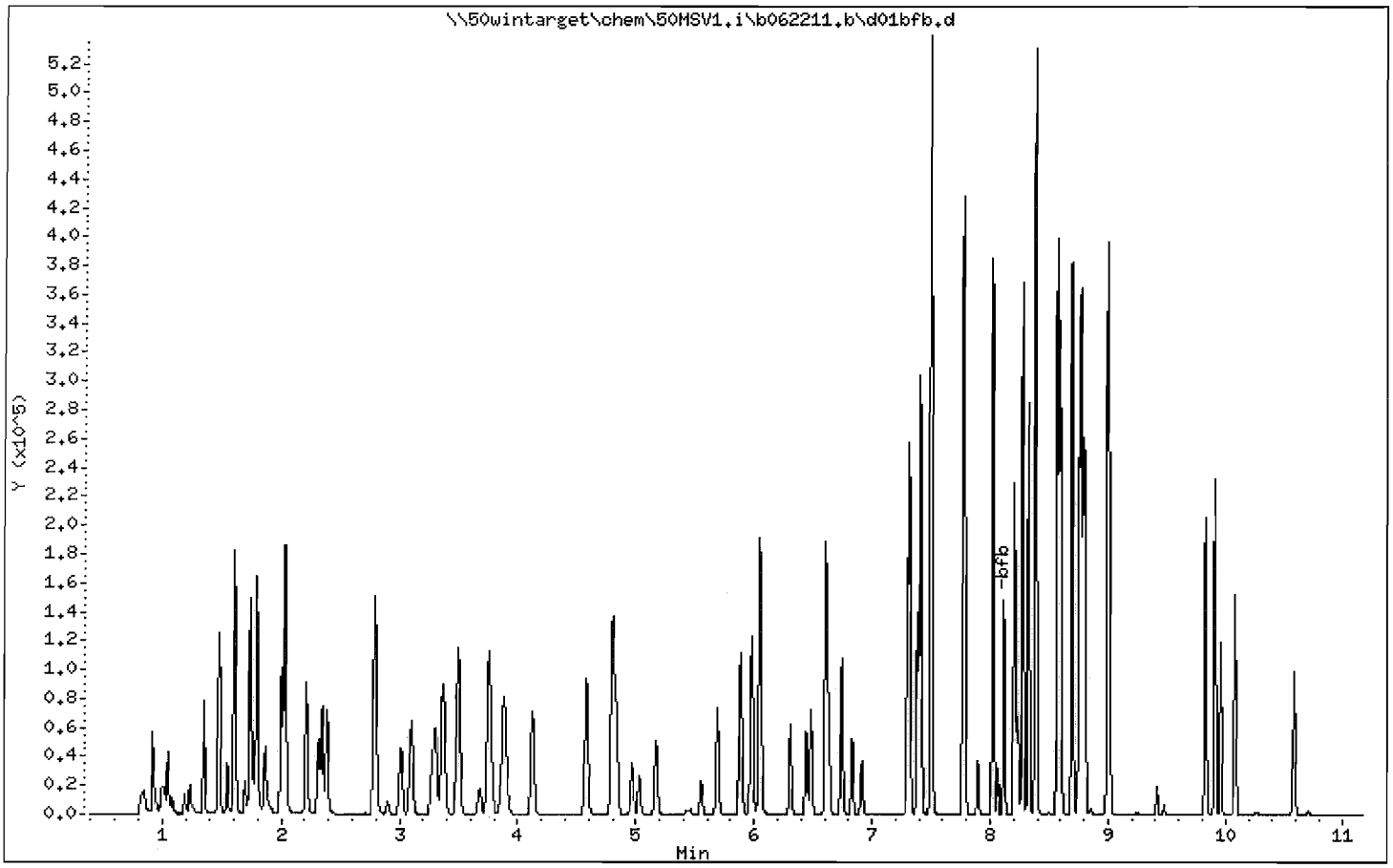
Sample Info: ccv

Volume Injected (uL): 1.0

Operator: rsw

Column phase:

Column diameter: 2.00



Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d01bfb.d

Date : 23-JUN-2011 00:45

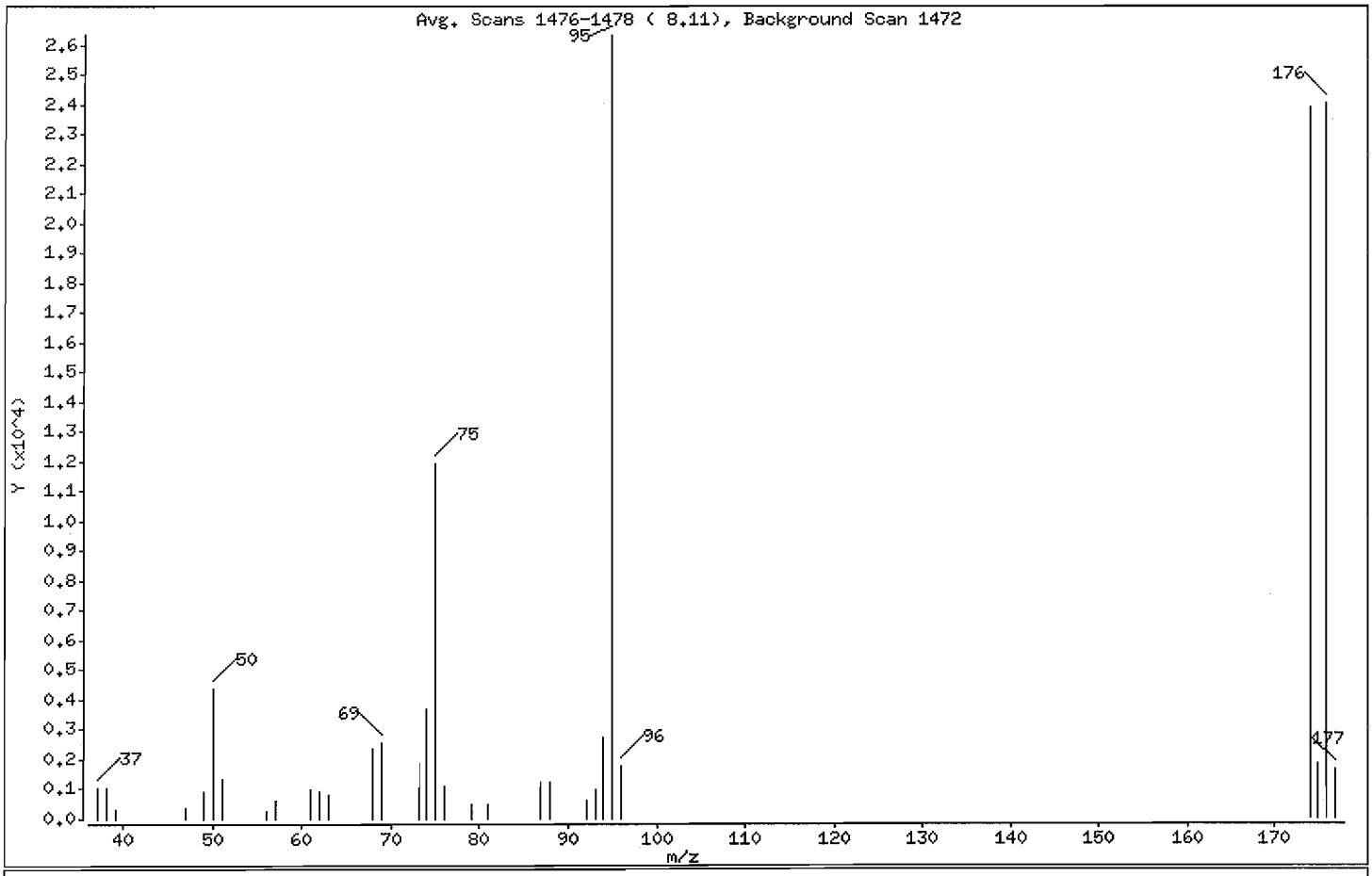
Client ID: bfb050 | Instrument: 50MSV1.i

Sample Info: ccv

Volume Injected (uL): 1.0 | Operator: rsw

Column phase: | Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.52
75	30.00 - 60.00% of mass 95	45.37
96	5.00 - 9.00% of mass 95	6.76
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	90.86
175	5.00 - 9.00% of mass 174	6.84 (7.52)
176	95.00 - 101.00% of mass 174	91.38 (100.57)
177	5.00 - 9.00% of mass 176	6.27 (6.87)
95	100.00 - 100.00% of mass 95	100.00

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d01bfb.d

Date : 23-JUN-2011 00:45

Client ID: bfb050 Instrument: 50MSV1.i

Sample Info: ccv

Volume Injected (uL): 1.0 Operator: rsw

Column phase: Column diameter: 2.00

Data File: d01bfb.d
Spectrum: Avg. Scans 1476-1478 (8.11), Background Scan 1472
Location of Maximum: 95.00
Number of points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1052	57.00	633	75.00	11951	94.00	2746
38.00	1045	61.00	944	76.00	1063	95.00	26344
39.00	289	62.00	935	79.00	510	96.00	1781
47.00	348	63.00	769	81.00	496	174.00	23936
49.00	916	68.00	2356	87.00	1226	175.00	1801
50.00	4353	69.00	2532	88.00	1219	176.00	24072
51.00	1310	73.00	1046	92.00	635	177.00	1653
56.00	221	74.00	3721	93.00	959		

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062211.b\d01ccv.d
Lab Smp Id: ccv Client Smp ID: ccv
Inj Date : 23-JUN-2011 00:45
Operator : rsw Inst ID: 50MSV1.i
Smp Info : ccv
Misc Info :
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Meth Date : 28-Jun-2011 16:55 rwrede Quant Type: ISTD
Cal Date : 20-JUN-2011 19:02 Cal File: b08.d
Als bottle: 46 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: VOA-RSR

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.916	0.916	(0.222)	40925	50.0000	39.1
2 Chloromethane	50	1.010	1.010	(0.245)	31305	50.0000	41.2
3 Vinyl Chloride	62	1.046	1.046	(0.254)	26911	50.0000	41.3
4 Bromomethane	94	1.193	1.193	(0.289)	8094	50.0000	30.8
5 Chloroethane	64	1.235	1.235	(0.300)	12406	50.0000	44.1
6 Trichlorofluoromethane	101	1.350	1.350	(0.328)	34864	50.0000	41.8
28 1,2-dichlorotrifluoroethane	67	1.470	1.470	(0.357)	32799	50.0000	59.6
7 Diethyl ether	74	1.475	1.475	(0.358)	8619	50.0000	60.1
8 Acrolein	56	1.538	1.538	(0.373)	17824	1000.00	873
9 1,1-Dichloroethene	96	1.601	1.601	(0.388)	23832	50.0000	58.6
10 1,1,2trichlorotrifluoroethane	101	1.596	1.596	(0.387)	26923	50.0000	59.5
11 Acetone	43	1.616	1.616	(0.392)	12699	250.000	315
12 Iodomethane	142	1.690	1.690	(0.410)	26133	100.000	87.2
142 Acetonitrile	41	1.789	1.789	(0.434)	60350	1000.00	1230
13 Carbon Disulfide	76	1.732	1.732	(0.420)	154203	100.000	116
138 Methyl Acetate	43	1.789	1.789	(0.434)	6721	50.0000	61.2
14 allyl chloride	41	1.789	1.789	(0.434)	60350	100.000	123
15 Methylene Chloride	84	1.857	1.857	(0.451)	20422	50.0000	54.4
16 Acrylonitrile	53	1.998	1.998	(0.485)	58803	1000.00	1160
27 Propionitrile	54	2.851	2.851	(0.692)	1098	50.0000	54.5
17 tert-Butyl Alcohol	59	1.909	1.909	(0.463)	1694	100.000	102
18 1,2-Dichloroethene (trans)	96	2.030	2.030	(0.492)	23605	50.0000	55.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	19 Methyl-tert-butyl ether	73	2.024	2.024	(0.491)	78790	100.000	112
	20 n-Hexane	57	2.213	2.213	(0.537)	34771	50.0000	49.0
	146 Chloroprene	53	2.385	2.385	(0.579)	33910	50.0000	44.7
	21 1,1-Dichloroethane	63	2.312	2.312	(0.561)	40664	50.0000	45.4
	23 Vinyl Acetate	43	2.343	2.343	(0.569)	85941	200.000	163
	25 1,2-Dichloroethene (cis)	96	2.788	2.788	(0.676)	31824	50.0000	61.3
	24 2,2-Dichloropropane	77	2.788	2.788	(0.676)	40426	50.0000	59.0
	26 2-Butanone	43	2.804	2.804	(0.680)	28867	250.000	324
	143 Methacrylonitrile	41	2.997	2.997	(0.727)	7260	250.000	295
	29 Bromochloromethane	49	3.013	3.013	(0.731)	17173	50.0000	60.6
	30 Tetrahydrofuran	42	3.081	3.081	(0.748)	3593	50.0000	31.7
	31 Chloroform	83	3.102	3.102	(0.753)	53540	50.0000	59.2
$	32 Dibromofluoromethane (S)	113	3.269	3.269	(0.793)	18157	50.0000	50.4
	33 1,1,1-Trichloroethane	97	3.301	3.301	(0.801)	45092	50.0000	57.6
	139 Cyclohexane	56	3.369	3.369	(0.817)	49703	50.0000	58.2
	37 Isobutyl alcohol	43	3.881	3.881	(0.942)	20095	50.0000	61.3
	36 1,1-Dichloropropene	75	3.494	3.494	(0.848)	44993	50.0000	59.0
	35 Carbon Tetrachloride	117	3.499	3.499	(0.849)	33326	50.0000	55.1
	144 isopropyl acetate	61	1.046	1.046	(0.254)	1986	50.0000	40.9
	147 2,2,4-Trimethylpentane	57	3.876	3.876	(0.940)	117216	50.0000	61.8
	38 Benzene	78	3.756	3.756	(0.911)	115564	50.0000	53.6
	39 1,2-Dichloroethane	62	3.766	3.766	(0.914)	25624	50.0000	58.8
*	40 Fluorobenzene	96	4.122	4.122	(1.000)	80205	50.0000	
	41 Trichloroethene	95	4.577	4.577	(1.110)	36437	50.0000	61.2
	140 Methylcyclohexane	55	4.802	4.802	(1.165)	47374	50.0000	60.5
	42 1,2-Dichloropropane	63	4.833	4.833	(1.173)	28139	50.0000	58.2
	43 Dibromomethane	93	4.969	4.969	(1.206)	13581	50.0000	58.2
	44 Methyl methacrylate	69	5.032	5.032	(1.221)	11890	50.0000	61.2
	45 Bromodichloromethane	83	5.173	5.173	(1.255)	34839	50.0000	58.7
	46 2-Chloroethyl vinyl ether	63	5.550	5.550	(0.760)	9936	100.000	141
	47 cis-1,3-Dichloropropene	75	5.685	5.685	(0.779)	42346	50.0000	57.8
	48 4-Methyl-2-Pentanone	43	5.879	5.879	(0.805)	77124	250.000	274
$	49 Toluene-d8	98	5.978	5.978	(0.819)	82919	50.0000	49.6
	50 Toluene	91	6.046	6.046	(0.828)	136900	50.0000	58.6
	51 trans-1,3-Dichloropropene	75	6.303	6.303	(0.863)	32578	50.0000	54.6
	52 Ethyl Methacrylate	69	6.439	6.439	(0.882)	27805	50.0000	60.0
	53 1,1,2-Trichloroethane	83	6.480	6.480	(0.888)	18487	50.0000	57.6
	54 Tetrachloroethene	166	6.611	6.611	(0.905)	53285	50.0000	65.0
	55 1,3-Dichloropropane	76	6.632	6.632	(0.908)	35105	50.0000	60.0
	56 2-Hexanone	43	6.742	6.742	(0.923)	56270	250.000	300
	57 Dibromochloromethane	129	6.831	6.831	(0.936)	22191	50.0000	59.1
	58 1,2-Dibromoethane	107	6.915	6.915	(0.947)	19825	50.0000	56.7
*	59 Chlorobenzene-d5	117	7.302	7.302	(1.000)	73321	50.0000	
	60 Chlorobenzene	112	7.317	7.317	(1.002)	90251	50.0000	54.8
	61 1,1,1,2-Tetrachloroethane	131	7.385	7.385	(1.011)	26469	50.0000	58.5
	62 Ethylbenzene	106	7.411	7.411	(1.015)	48904	50.0000	52.3
	63 m&p-Xylene	106	7.500	7.500	(1.027)	115635	100.000	118
	65 o-Xylene	106	7.772	7.772	(1.064)	59759	50.0000	52.1
	66 Styrene	104	7.783	7.783	(1.066)	91392	50.0000	52.7
	67 Bromoform	173	7.898	7.898	(0.898)	12320	50.0000	45.1
	68 Isopropylbenzene	105	8.018	8.018	(1.098)	171266	50.0000	54.1
	69 trans-1,4-Dichloro-2-butene	53	8.243	8.243	(1.129)	4672	50.0000	49.1
$	70 4-Bromofluorobenzene	95	8.112	8.112	(1.111)	32442	50.0000	47.8
	72 1,1,2,2-Tetrachloroethane	83	8.212	8.212	(0.934)	25806	50.0000	53.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
71 Bromobenzene	77	8.201	8.201	(1.123)	66873	50.0000	56.7
73 1,2,3-Trichloropropane	75	8.227	8.227	(0.936)	24791	50.0000	55.1
74 n-Propylbenzene	91	8.274	8.274	(0.941)	198137	50.0000	54.8
75 2-Chlorotoluene	91	8.327	8.327	(0.947)	114772	50.0000	54.8
76 4-Chlorotoluene	126	8.327	8.327	(0.947)	36412	50.0000	56.3
77 1,3,5-Trimethylbenzene	105	8.384	8.384	(0.954)	124092	50.0000	52.8
78 tert-Butylbenzene	119	8.573	8.573	(0.975)	141618	50.0000	54.5
79 1,2,4-Trimethylbenzene	105	8.599	8.599	(0.978)	126201	50.0000	50.7
80 sec-Butylbenzene	105	8.698	8.698	(0.989)	185211	50.0000	55.5
81 1,3-Dichlorobenzene	146	8.756	8.756	(0.996)	72704	50.0000	52.5
83 p-Isopropyltoluene	119	8.777	8.777	(0.998)	139598	50.0000	55.2
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.792	(1.000)	35100	50.0000	
84 1,4-Dichlorobenzene	146	8.808	8.808	(1.002)	63217	50.0000	48.1
86 n-Butylbenzene	91	8.996	8.996	(1.023)	138664	50.0000	51.5
85 1,2-Dichlorobenzene	146	9.012	9.012	(1.025)	61785	50.0000	52.6
88 1,2,4-Trichlorobenzene	180	9.828	9.828	(1.118)	48492	50.0000	46.9
91 1,2,3-Trichlorobenzene	180	10.084	10.084	(1.147)	40528	50.0000	49.8
87 1,2-Dibromo-3-chloropropane	155	9.415	9.415	(1.071)	3111	50.0000	47.3
89 Hexachlorobutadiene	225	9.911	9.911	(1.127)	40662	50.0000	52.5
90 Naphthalene	128	9.959	9.959	(1.133)	72356	50.0000	50.2
92 2,methyl-naphthalene	142	10.581	10.581	(1.203)	42796	50.0000	49.2

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d01ccv.d
Lab Smp Id: ccv
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info:

Calibration Date: 22-JUN-2011
Calibration Time: 13:16
Client Smp ID: ccv
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	75273	37637	150546	80205	6.55
59 Chlorobenzene-d5	69740	34870	139480	73321	5.13
82 1,4-Dichlorobenze	33195	16598	66390	35100	5.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.10
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	0.06
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.01

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

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i
Lab File ID: d01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m

Injection Date: 23-JUN-2011 00:45
Init. Cal. Date(s): 20-JUN-2011 20-JUN-2011
Init. Cal. Times: 15:00 19:02
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.65203	0.51025	0.51025	0.100	-21.74347	20.00000	Averaged	<-
2 Chloromethane	0.47324	0.39031	0.39031	0.100	-17.52421	20.00000	Averaged	
3 Vinyl Chloride	50.00000	41.29479	0.33553	0.100	-17.41043	0.000e+000	Linear	
4 Bromomethane	50.00000	30.84978	0.10092	0.100	-38.30045	0.000e+000	Linear	
5 Chloroethane	50.00000	44.10139	0.15468	0.100	-11.79722	0.000e+000	Linear	
6 Trichlorofluoromethane	0.51921	0.43469	0.43469	0.100	-16.28009	20.00000	Averaged	
28 1,2-dichlorotrifluoroethane	0.34311	0.40894	0.40894	0.100	19.18610	20.00000	Averaged	
7 Diethyl ether	0.08941	0.10746	0.10746	0.100	20.18539	20.00000	Averaged	<-
8 Acrolein	1000	873	0.01111	0.100	-12.68248	0.000e+000	Linear	
9 1,1-Dichloroethene	0.25344	0.29714	0.29714	0.100	17.24051	20.00000	Averaged	
10 1,1,2trichlorotrifluoroetha	0.28193	0.33568	0.33568	0.100	19.06539	20.00000	Averaged	
11 Acetone	250	315	0.03167	0.100	26.09872	0.000e+000	Linear	
12 Iodomethane	100	87.17298	0.16291	0.100	-12.82702	0.000e+000	Linear	
142 Acetonitrile	0.03056	0.03762	0.03762	0.100	23.09237	20.00000	Averaged	<-
13 Carbon Disulfide	0.83168	0.96131	0.96131	0.100	15.58532	20.00000	Averaged	
138 Methyl Acetate	50.00000	61.23976	0.08380	0.100	22.47953	0.000e+000	Linear	
14 allyl chloride	0.30604	0.37622	0.37622	0.100	22.93356	20.00000	Averaged	<-
15 Methylene Chloride	0.23387	0.25462	0.25462	0.100	8.87146	20.00000	Averaged	
16 Acrylonitrile	0.03173	0.03666	0.03666	0.100	15.51283	20.00000	Averaged	
27 Propionitrile	0.01255	0.01369	0.01369	0.100	9.04564	20.00000	Averaged	
17 tert-Butyl Alcohol	0.01030	0.01056	0.01056	0.100	2.53654	20.00000	Averaged	
18 1,2-Dichloroethene (trans)	0.26505	0.29431	0.29431	0.100	11.03789	20.00000	Averaged	
19 Methyl-tert-butyl ether	0.43969	0.49118	0.49118	0.100	11.71039	20.00000	Averaged	
20 n-Hexane	0.44236	0.43353	0.43353	0.100	-1.99664	20.00000	Averaged	
146 Chloroprene	0.47293	0.42279	0.42279	0.100	-10.60242	20.00000	Averaged	
21 1,1-Dichloroethane	0.55875	0.50700	0.50700	0.100	-9.26218	20.00000	Averaged	
23 Vinyl Acetate	0.32847	0.26788	0.26788	0.100	-18.44735	20.00000	Averaged	
25 1,2-Dichloroethene (cis)	0.32365	0.39678	0.39678	0.100	22.59617	20.00000	Averaged	<-
24 2,2-Dichloropropane	0.42707	0.50403	0.50403	0.100	18.02139	20.00000	Averaged	
26 2-Butanone	250	324	0.07198	0.100	29.54106	0.000e+000	Linear	
143 Methacrylonitrile	0.01532	0.01810	0.01810	0.100	18.19429	20.00000	Averaged	
29 Bromochloromethane	0.17669	0.21411	0.21411	0.100	21.17892	20.00000	Averaged	<-
30 Tetrahydrofuran	0.07065	0.04480	0.04480	0.100	-36.59075	20.00000	Averaged	<-
31 Chloroform	0.56377	0.66754	0.66754	0.100	18.40648	20.00000	Averaged	
$ 32 Dibromofluoromethane (S)	0.22478	0.22638	0.22638	0.100	0.71446	20.00000	Averaged	
33 1,1,1-Trichloroethane	0.48796	0.56221	0.56221	0.100	15.21702	20.00000	Averaged	
139 Cyclohexane	0.53194	0.61970	0.61970	0.100	16.49810	20.00000	Averaged	
37 Isobutyl alcohol	0.20444	0.25055	0.25055	0.100	22.55322	20.00000	Averaged	<-
36 1,1-Dichloropropene	0.47550	0.56098	0.56098	0.100	17.97649	20.00000	Averaged	
35 Carbon Tetrachloride	50.00000	55.11415	0.41551	0.100	10.22830	0.000e+000	Linear	
144 isopropyl acetate	0.03030	0.02476	0.02476	0.100	-18.27231	20.00000	Averaged	
147 2,2,4-Trimethylpentane	1.18243	1.46146	1.46146	0.100	23.59784	20.00000	Averaged	<-

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i
Lab File ID: d01ccv.d
Analysis Type: WATER
Lab Sample ID: ccv
Method: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m

Injection Date: 23-JUN-2011 00:45
Init. Cal. Date(s): 20-JUN-2011 20-JUN-2011
Init. Cal. Times: 15:00 19:02
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 Benzene	1.34397	1.44086	1.44086	0.100	7.20914	20.00000	Averaged	
39 1,2-Dichloroethane	0.27156	0.31948	0.31948	0.100	17.64701	20.00000	Averaged	
41 Trichloroethene	0.37121	0.45430	0.45430	0.100	22.38210	20.00000	Averaged	<-
140 Methylcyclohexane	0.48795	0.59066	0.59066	0.100	21.05007	20.00000	Averaged	<-
42 1,2-Dichloropropane	0.30111	0.35084	0.35084	0.100	16.51398	20.00000	Averaged	
43 Dibromomethane	0.14551	0.16933	0.16933	0.100	16.36793	20.00000	Averaged	
141 1,4-Dioxane	++++	++++	++++	0.100	++++	20.00000	Averaged	<-
44 Methyl methacrylate	0.12102	0.14825	0.14825	0.100	22.50144	20.00000	Averaged	<-
45 Bromodichloromethane	0.36983	0.43437	0.43437	0.100	17.45253	20.00000	Averaged	
46 2-Chloroethyl vinyl ether	0.04817	0.06776	0.06776	0.100	40.65780	20.00000	Averaged	<-
47 cis-1,3-Dichloropropene	0.49930	0.57754	0.57754	0.100	15.66942	20.00000	Averaged	
48 4-Methyl-2-Pentanone	0.19214	0.21037	0.21037	0.100	9.49086	20.00000	Averaged	
$ 49 Toluene-d8	1.13872	1.13090	1.13090	0.100	-0.68641	20.00000	Averaged	
50 Toluene	50.00000	58.63543	1.86713	0.100	17.27085	0.000e+000	Linear	
51 trans-1,3-Dichloropropene	0.40655	0.44432	0.44432	0.100	9.29090	20.00000	Averaged	
52 Ethyl Methacrylate	0.31593	0.37922	0.37922	0.100	20.03229	20.00000	Averaged	<-
53 1,1,2-Trichloroethane	0.21894	0.25214	0.25214	0.100	15.16133	20.00000	Averaged	
54 Tetrachloroethene	0.55914	0.72674	0.72674	0.100	29.97422	20.00000	Averaged	<-
55 1,3-Dichloropropane	0.39883	0.47879	0.47879	0.100	20.04748	20.00000	Averaged	<-
56 2-Hexanone	250	300	0.15349	0.100	20.01434	0.000e+000	Linear	
57 Dibromochloromethane	0.25603	0.30266	0.30266	0.100	18.21273	20.00000	Averaged	
58 1,2-Dibromoethane	0.23856	0.27039	0.27039	0.100	13.33888	20.00000	Averaged	
60 Chlorobenzene	1.12363	1.23090	1.23090	0.300	9.54690	20.00000	Averaged	
61 1,1,1,2-Tetrachloroethane	0.30857	0.36100	0.36100	0.100	16.98998	20.00000	Averaged	
62 Ethylbenzene	0.63777	0.66698	0.66698	0.100	4.58038	20.00000	Averaged	
63 m&p-Xylene	100	118	0.78855	0.100	18.29463	0.000e+000	Linear	
65 o-Xylene	0.78242	0.81503	0.81503	0.100	4.16821	20.00000	Averaged	
66 Styrene	1.18177	1.24646	1.24646	0.100	5.47453	20.00000	Averaged	
67 Bromoform	50.00000	45.06169	0.35100	0.100	-9.87661	0.000e+000	Linear	
68 Isopropylbenzene	2.15968	2.33584	2.33584	0.100	8.15673	20.00000	Averaged	
69 trans-1,4-Dichloro-2-butene	50.00000	49.14748	0.06372	0.100	-1.70503	0.000e+000	Linear	
$ 70 4-Bromofluorobenzene	0.46321	0.44247	0.44247	0.100	-4.47823	20.00000	Averaged	
145 n-amyl acetate	++++	++++	++++	0.100	++++	20.00000	Averaged	<-
72 1,1,2,2-Tetrachloroethane	0.68247	0.73521	0.73521	0.300	7.72818	20.00000	Averaged	
71 Bromobenzene	0.80450	0.91206	0.91206	0.100	13.37019	20.00000	Averaged	
73 1,2,3-Trichloropropane	0.64047	0.70630	0.70630	0.100	10.27740	20.00000	Averaged	
74 n-Propylbenzene	5.14556	5.64493	5.64493	0.100	9.70479	20.00000	Averaged	
75 2-Chlorotoluene	2.98458	3.26986	3.26986	0.100	9.55838	20.00000	Averaged	
76 4-Chlorotoluene	0.92054	1.03738	1.03738	0.100	12.69265	20.00000	Averaged	
77 1,3,5-Trimethylbenzene	3.34682	3.53538	3.53538	0.100	5.63422	20.00000	Averaged	
78 tert-Butylbenzene	3.70078	4.03470	4.03470	0.100	9.02310	20.00000	Averaged	
79 1,2,4-Trimethylbenzene	3.54593	3.59547	3.59547	0.100	1.39702	20.00000	Averaged	
80 sec-Butylbenzene	4.75298	5.27667	5.27667	0.100	11.01798	20.00000	Averaged	

Pace Analytical Services, Inc.

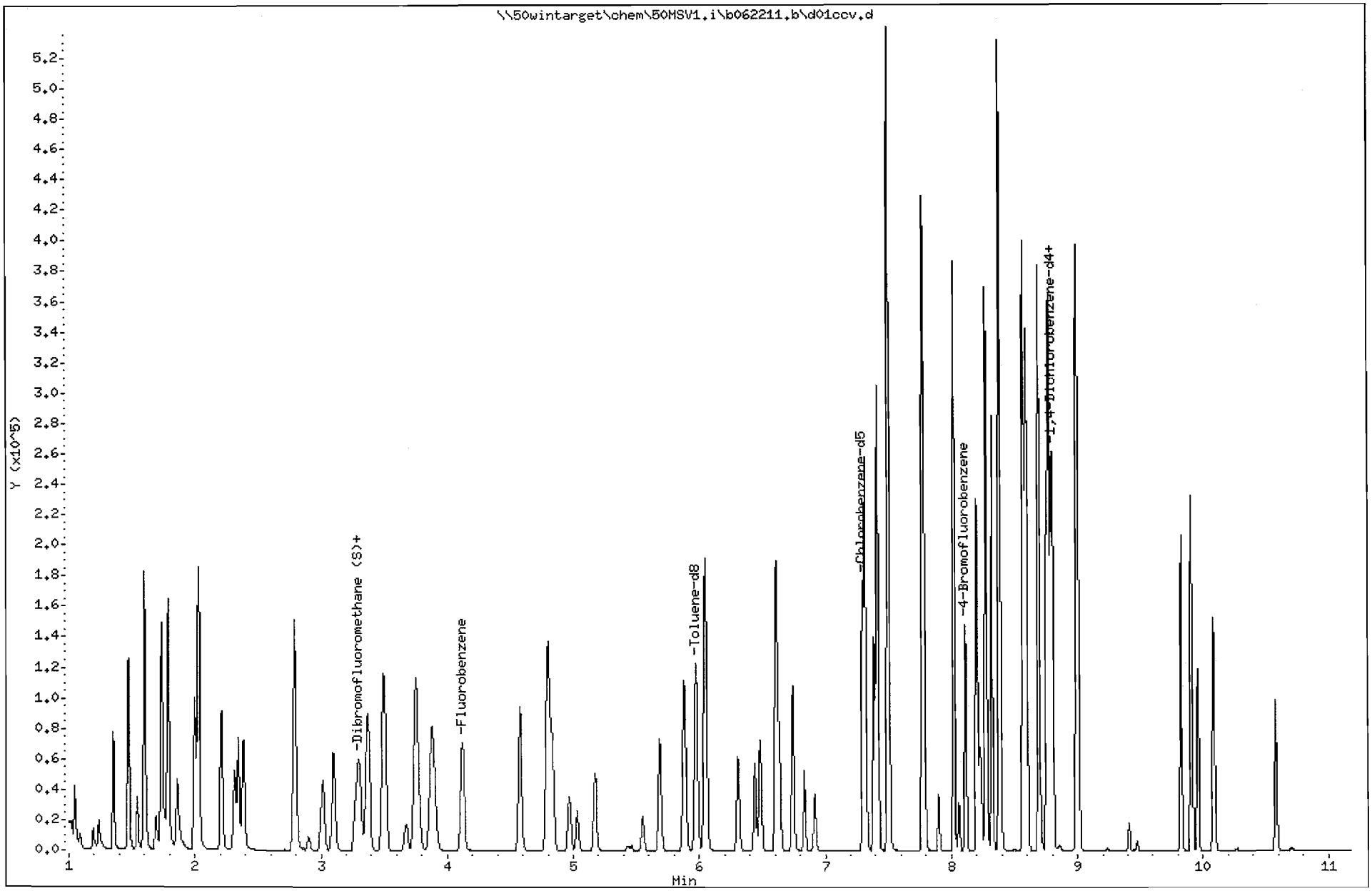
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 50MSV1.i Injection Date: 23-JUN-2011 00:45
Lab File ID: d01ccv.d Init. Cal. Date(s): 20-JUN-2011 20-JUN-2011
Analysis Type: WATER Init. Cal. Times: 15:00 19:02
Lab Sample ID: ccv Quant Type: ISTD
Method: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
81 1,3-Dichlorobenzene	1.97159	2.07134	2.07134	0.100	5.05914	20.00000	Averaged
83 p-Isopropyltoluene	3.60108	3.97715	3.97715	0.100	10.44333	20.00000	Averaged
84 1,4-Dichlorobenzene	1.87041	1.80105	1.80105	0.100	-3.70821	20.00000	Averaged
86 n-Butylbenzene	3.83612	3.95054	3.95054	0.100	2.98278	20.00000	Averaged
85 1,2-Dichlorobenzene	1.67275	1.76026	1.76026	0.100	5.23136	20.00000	Averaged
88 1,2,4-Trichlorobenzene	1.47261	1.38154	1.38154	0.100	-6.18425	20.00000	Averaged
91 1,2,3-Trichlorobenzene	1.16003	1.15464	1.15464	0.100	-0.46451	20.00000	Averaged
87 1,2-Dibromo-3-chloropropane	50.00000	47.32413	0.08863	0.100	-5.35173	0.000e+000	Linear
89 Hexachlorobutadiene	1.10238	1.15846	1.15846	0.100	5.08695	20.00000	Averaged
90 Naphthalene	2.05300	2.06142	2.06142	0.100	0.41046	20.00000	Averaged
92 2,methyl-naphthalene	1.23999	1.21926	1.21926	0.100	-1.67199	20.00000	Averaged

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d01ccv.d
Date : 23-JUN-2011 00:45
Client ID: ccv
Sample Info: ccv
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 4: Quality Control Data

**** Laboratory Control Samples (LCS)***
**** Matrix Spike and Spike Duplicate Samples (MS/MSD)***

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062211.b\d02lcs.d
Lab Smp Id: 589165 Client Smp ID: lcs
Inj Date : 23-JUN-2011 01:18
Operator : rsw Inst ID: 50MSV1.i
Smp Info : lcs
Misc Info : 33539
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Meth Date : 28-Jun-2011 16:55 rwrede Quant Type: ISTD
Cal Date : 20-JUN-2011 19:02 Cal File: b08.d
Als bottle: 48 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.919	0.916	(0.223)	48977	46.8735	46.9
2 Chloromethane	50	1.013	1.010	(0.246)	35497	46.8067	46.8
3 Vinyl Chloride	62	1.044	1.046	(0.254)	33604	51.7983	51.8
4 Bromomethane	94	1.196	1.193	(0.290)	11883	44.3730	44.4
5 Chloroethane	64	1.238	1.235	(0.301)	15814	57.1568	57.2
6 Trichlorofluoromethane	101	1.353	1.350	(0.328)	40751	48.9771	49.0
28 1,2-dichlorotrifluoroethane	67	1.473	1.470	(0.358)	31658	57.5774	57.6
7 Diethyl ether	74	1.478	1.475	(0.359)	8016	55.9443	55.9
8 Acrolein	56	1.541	1.538	(0.374)	40290	2066.56	2070(R)
9 1,1-Dichloroethene	96	1.604	1.601	(0.389)	22281	54.8599	54.8
10 1,1,2trichlorotrifluoroethane	101	1.599	1.596	(0.388)	23713	52.4870	52.5
11 Acetone	43	1.614	1.616	(0.392)	15506	389.865	390
12 Iodomethane	142	1.693	1.690	(0.411)	28107	93.3511	93.4
142 Acetonitrile	41	1.792	1.789	(0.435)	49802	1016.80	1020
13 Carbon Disulfide	76	1.735	1.732	(0.421)	141354	106.060	106
138 Methyl Acetate	43	1.792	1.789	(0.435)	8089	73.5560	73.6
14 allyl chloride	41	1.792	1.789	(0.435)	49802	101.548	102
15 Methylene Chloride	84	1.860	1.857	(0.452)	19021	50.7519	50.8
16 Acrylonitrile	53	1.996	1.998	(0.485)	51022	1003.28	1000
17 tert-Butyl Alcohol	59	1.918	1.909	(0.466)	1598	96.8223	96.8
18 1,2-Dichloroethene (trans)	96	2.033	2.030	(0.494)	22059	51.9346	51.9
19 Methyl-tert-butyl ether	73	2.028	2.024	(0.492)	68283	96.9100	96.9
20 n-Hexane	57	2.211	2.213	(0.537)	31454	44.3714	44.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	146 Chloroprene	53	2.388	2.385	(0.580)	23782	31.3798	31.4
	21 1,1-Dichloroethane	63	2.315	2.312	(0.562)	37309	41.6673	41.7
	23 Vinyl Acetate	43	2.347	2.343	(0.570)	65172	123.812	124
	25 1,2-Dichloroethene (cis)	96	2.791	2.788	(0.678)	29579	57.0307	57.0
	24 2,2-Dichloropropane	77	2.791	2.788	(0.678)	35622	52.0501	52.0
	26 2-Butanone	43	2.807	2.804	(0.681)	27430	307.910	308
	143 Methacrylonitrile	41	3.000	2.997	(0.728)	6749	274.962	275
	29 Bromochloromethane	49	3.016	3.013	(0.732)	16326	57.6586	57.6
	30 Tetrahydrofuran	42	3.084	3.081	(0.749)	3421	30.2170	30.2
	31 Chloroform	83	3.105	3.102	(0.754)	47135	52.1728	52.2
$	32 Dibromofluoromethane (S)	113	3.278	3.269	(0.796)	18268	50.7157	50.7
	33 1,1,1-Trichloroethane	97	3.304	3.301	(0.802)	40683	52.0276	52.0
	139 Cyclohexane	56	3.372	3.369	(0.818)	46495	54.5439	54.5
	37 Isobutyl alcohol	43	3.900	3.881	(0.947)	119768	365.579	366(QR)
	36 1,1-Dichloropropene	75	3.497	3.494	(0.849)	39846	52.2924	52.3
	35 Carbon Tetrachloride	117	3.502	3.499	(0.850)	30281	50.4288	50.4
	144 isopropyl acetate	61	1.044	1.046	(0.254)	2508	51.6560	51.6(Q)
	147 2,2,4-Trimethylpentane	57	3.890	3.876	(0.944)	101000	53.3026	53.3
	38 Benzene	78	3.754	3.756	(0.911)	105053	48.7777	48.8
	39 1,2-Dichloroethane	62	3.774	3.766	(0.916)	22863	52.5376	52.5
*	40 Fluorobenzene	96	4.120	4.122	(1.000)	80125	50.0000	
	41 Trichloroethene	95	4.580	4.577	(1.112)	32826	55.1819	55.2
	140 Methylcyclohexane	55	4.800	4.802	(1.165)	42965	54.9469	54.9
	42 1,2-Dichloropropane	63	4.836	4.833	(1.174)	26534	54.9890	55.0
	43 Dibromomethane	93	4.972	4.969	(1.207)	12455	53.4132	53.4
	141 1,4-Dioxane	88	5.030	5.032	(1.221)	2870		
	44 Methyl methacrylate	69	5.035	5.032	(1.222)	40976	211.296	211
	45 Bromodichloromethane	83	5.171	5.173	(1.255)	30567	51.5766	51.6
	46 2-Chloroethyl vinyl ether	63	5.558	5.550	(0.761)	3731	56.0828	56.1
	47 cis-1,3-Dichloropropene	75	5.689	5.685	(0.779)	37945	55.0279	55.0
	48 4-Methyl-2-Pentanone	43	5.882	5.879	(0.806)	67509	254.415	254
$	49 Toluene-d8	98	5.976	5.978	(0.819)	84812	53.9305	53.9
	50 Toluene	91	6.050	6.046	(0.829)	131240	59.7505	59.8
	51 trans-1,3-Dichloropropene	75	6.306	6.303	(0.864)	27555	49.0775	49.1
	52 Ethyl Methacrylate	69	6.442	6.439	(0.883)	92522	212.052	212
	53 1,1,2-Trichloroethane	83	6.484	6.480	(0.888)	16093	53.2230	53.2
	54 Tetrachloroethene	166	6.614	6.611	(0.906)	38576	49.9564	50.0
	55 1,3-Dichloropropane	76	6.635	6.632	(0.909)	30457	55.2959	55.3
	56 2-Hexanone	43	6.740	6.742	(0.923)	51443	291.039	291
	57 Dibromochloromethane	129	6.834	6.831	(0.936)	18875	53.3822	53.4
	58 1,2-Dibromoethane	107	6.918	6.915	(0.948)	18705	56.7735	56.8
*	59 Chlorobenzene-d5	117	7.300	7.302	(1.000)	69052	50.0000	
	60 Chlorobenzene	112	7.320	7.317	(1.003)	80323	51.7619	51.8
	61 1,1,1,2-Tetrachloroethane	131	7.388	7.385	(1.012)	23354	54.8018	54.8
	62 Ethylbenzene	106	7.415	7.411	(1.016)	46874	53.2182	53.2
	63 m&p-Xylene	106	7.504	7.500	(1.028)	112626	122.694	123
	65 o-Xylene	106	7.776	7.772	(1.065)	56950	52.7045	52.7
	66 Styrene	104	7.786	7.783	(1.067)	87728	53.7526	53.8
	67 Bromoform	173	7.901	7.898	(0.898)	11293	42.3548	42.4
	68 Isopropylbenzene	105	8.021	8.018	(1.099)	153711	51.5359	51.5
	69 trans-1,4-Dichloro-2-butene	53	8.241	8.243	(1.129)	16702	181.739	182(Q)
$	70 4-Bromofluorobenzene	95	8.115	8.112	(1.112)	34153	53.3883	53.4
	145 n-amyl acetate	70	7.927	7.924	(1.924)	60340		
	72 1,1,2,2-Tetrachloroethane	83	8.210	8.212	(0.933)	23385	49.4319	49.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
71 Bromobenzene	77	8.204	8.201	(1.124)	69358	62.4262	62.4
73 1,2,3-Trichloropropane	75	8.241	8.227	(0.937)	39079	88.0232	88.0(Q)
74 n-Propylbenzene	91	8.278	8.274	(0.941)	189729	53.1930	53.2
75 2-Chlorotoluene	91	8.325	8.327	(0.946)	106137	51.3024	51.3
76 4-Chlorotoluene	126	8.325	8.327	(0.946)	34503	54.0716	54.1
77 1,3,5-Trimethylbenzene	105	8.382	8.384	(0.953)	118583	51.1145	51.1
78 tert-Butylbenzene	119	8.570	8.573	(0.974)	125546	48.9400	48.9
79 1,2,4-Trimethylbenzene	105	8.602	8.599	(0.978)	120930	49.1991	49.2
80 sec-Butylbenzene	105	8.696	8.698	(0.989)	176154	53.4663	53.5
81 1,3-Dichlorobenzene	146	8.759	8.756	(0.996)	67451	49.3543	49.4
83 p-Isopropyltoluene	119	8.774	8.777	(0.998)	125785	50.3907	50.4
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.792	(1.000)	34659	50.0000	
84 1,4-Dichlorobenzene	146	8.806	8.808	(1.001)	62256	48.0173	48.0
86 n-Butylbenzene	91	8.994	8.996	(1.023)	138713	52.1650	52.2
85 1,2-Dichlorobenzene	146	9.010	9.012	(1.024)	58019	50.0373	50.0
88 1,2,4-Trichlorobenzene	180	9.826	9.828	(1.117)	46955	45.9990	46.0
91 1,2,3-Trichlorobenzene	180	10.087	10.084	(1.147)	39660	49.3215	49.3
87 1,2-Dibromo-3-chloropropane	155	9.413	9.415	(1.070)	2845	44.4956	44.5
89 Hexachlorobutadiene	225	9.909	9.911	(1.127)	39323	51.4598	51.4
90 Naphthalene	128	9.962	9.959	(1.133)	72603	51.0176	51.0
92 2,methyl-naphthalene	142	10.584	10.581	(1.203)	43468	50.5714	50.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d02lcs.d
Lab Smp Id: 589165
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Calibration Date: 23-JUN-2011
Calibration Time: 00:45
Client Smp ID: lcs
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	80205	40103	160410	80125	-0.10
59 Chlorobenzene-d5	73321	36661	146642	69052	-5.82
82 1,4-Dichlorobenze	35100	17550	70200	34659	-1.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.05
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.04

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 589165
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Client SDG: b062211.b
Fraction: VOA
Client Smp ID: lcs
Operator: rsw
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0	46.9	93.75	19-200
2	Chloromethane	50.0	46.8	93.61	46-146
3	Vinyl Chloride	50.0	51.8	103.60	61-146
4	Bromomethane	50.0	44.4	88.75	23-197
5	Chloroethane	50.0	57.2	114.31	56-153
6	Trichlorofluoromet	50.0	49.0	97.95	56-159
28	1,2-dichlorotriflu	50.0	57.6	115.15	54-162
7	Diethyl ether	50.0	55.9	111.89	70-130
8	Acrolein	1000	2070	206.66*	10-200
10	1,1,2trichlorotrif	50.0	52.5	104.97	63-134
9	1,1-Dichloroethene	50.0	54.8	109.72	75-145
11	Acetone	250	390	155.95	10-200
12	Iodomethane	100	93.4	93.35	16-181
13	Carbon Disulfide	100	106	106.06	55-146
14	allyl chloride	100	102	101.55	70-130
138	Methyl Acetate	50.0	73.6	147.11	10-200
15	Methylene Chloride	50.0	50.8	101.50	61-138
17	tert-Butyl Alcohol	100	96.8	96.82	50-150
16	Acrylonitrile	1000	1000	100.33	59-144
19	Methyl-tert-butyl	100	96.9	96.91	66-128
18	1,2-Dichloroethene	50.0	51.9	103.87	71-145
20	n-Hexane	50.0	44.4	88.74	67-142
21	1,1-Dichloroethane	50.0	41.7	83.33	70-127
23	Vinyl Acetate	200	124	61.91	27-119
24	2,2-Dichloropropan	50.0	52.0	104.10	45-138
25	1,2-Dichloroethene	50.0	57.0	114.06	79-129
26	2-Butanone	250	308	123.16	42-177
29	Bromochloromethane	50.0	57.6	115.32	58-153
31	Chloroform	50.0	52.2	104.35	73-122
33	1,1,1-Trichloroeth	50.0	52.0	104.06	69-126
37	Isobutyl alcohol	50.0	366	731.16*	50-150
139	Cyclohexane	50.0	54.5	109.09	66-133
36	1,1-Dichloropropen	50.0	52.3	104.58	75-126
35	Carbon Tetrachlori	50.0	50.4	100.86	65-125
38	Benzene	50.0	48.8	97.56	76-123
39	1,2-Dichloroethane	50.0	52.5	105.08	71-127
41	Trichloroethene	50.0	55.2	110.36	77-122
140	Methylcyclohexane	50.0	54.9	109.89	69-127
42	1,2-Dichloropropan	50.0	55.0	109.98	75-126
43	Dibromomethane	50.0	53.4	106.83	73-123

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
44 Methyl methacrylat	200	211	105.65	70-130
45 Bromodichlorometha	50.0	51.6	103.15	71-124
46 2-Chloroethyl viny	100	56.1	56.08	50-150
47 cis-1,3-Dichloropr	50.0	55.0	110.06	66-123
48 4-Methyl-2-Pentano	250	254	101.77	64-135
50 Toluene	50.0	59.8	119.50	74-124
51 trans-1,3-Dichloro	50.0	49.1	98.15	58-118
52 Ethyl Methacrylate	200	212	106.03	70-127
53 1,1,2-Trichloroeth	50.0	53.2	106.45	77-129
54 Tetrachloroethene	50.0	50.0	99.91	57-125
55 1,3-Dichloropropan	50.0	55.3	110.59	77-126
56 2-Hexanone	250	291	116.42	57-162
57 Dibromochlorometha	50.0	53.4	106.76	77-123
58 1,2-Dibromoethane	50.0	56.8	113.55	77-123
60 Chlorobenzene	50.0	51.8	103.52	78-120
61 1,1,1,2-Tetrachlor	50.0	54.8	109.60	69-122
62 Ethylbenzene	50.0	53.2	106.44	75-120
63 m&p-Xylene	100	123	122.69	72-126
65 o-Xylene	50.0	52.7	105.41	72-126
66 Styrene	50.0	53.8	107.51	75-125
67 Bromoform	50.0	42.4	84.71	64-116
68 Isopropylbenzene	50.0	51.5	103.07	73-123
71 Bromobenzene	50.0	62.4	124.85	67-130
72 1,1,2,2-Tetrachlor	50.0	49.4	98.86	68-134
73 1,2,3-Trichloropro	100	88.0	88.02	45-121
69 trans-1,4-Dichloro	200	182	90.87	50-121
74 n-Propylbenzene	50.0	53.2	106.39	71-132
75 2-Chlorotoluene	50.0	51.3	102.60	74-129
76 4-Chlorotoluene	50.0	54.1	108.14	70-125
77 1,3,5-Trimethylben	50.0	51.1	102.23	69-129
78 tert-Butylbenzene	50.0	48.9	97.88	49-114
79 1,2,4-Trimethylben	50.0	49.2	98.40	68-129
80 sec-Butylbenzene	50.0	53.5	106.93	69-130
81 1,3-Dichlorobenzen	50.0	49.4	98.71	76-123
83 p-Isopropyltoluene	50.0	50.4	100.78	71-126
84 1,4-Dichlorobenzen	50.0	48.0	96.03	77-121
86 n-Butylbenzene	50.0	52.2	104.33	69-130
85 1,2-Dichlorobenzen	50.0	50.0	100.07	74-123
87 1,2-Dibromo-3-chlo	50.0	44.5	88.99	54-138
88 1,2,4-Trichloroben	50.0	46.0	92.00	64-122
89 Hexachlorobutadien	50.0	51.4	102.92	64-131
90 Naphthalene	50.0	51.0	102.04	62-130
91 1,2,3-Trichloroben	50.0	49.3	98.64	63-130

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.7	101.43	82-122
$ 49 Toluene-d8	50.0	53.9	107.86	80-120
$ 70 4-Bromofluorobenze	50.0	53.4	106.78	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 589165
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	46.9	
74-87-3	Chloromethane	46.8	
75-01-4	Vinyl Chloride	51.8	
74-83-9	Bromomethane	44.4	
75-00-3	Chloroethane	57.2	
75-69-4	Trichlorofluoromethane	49.0	
354-23-4	1,2-dichlorotrifluoroethane	57.6	
60-29-7	Diethyl ether	55.9	
107-02-8	Acrolein	2070	
75-35-4	1,1-Dichloroethene	54.8	
76-13-1	1,1,2trichlorotrifluoroethan	52.5	
67-64-1	Acetone	390	
	Iodomethane	93.4	
75-05-8	Acetonitrile	1020	
75-15-0	Carbon Disulfide	106	
79-20-9	Methyl Acetate	73.6	
107-05-1	allyl chloride	102	
75-09-2	Methylene Chloride	50.8	
107-13-1	Acrylonitrile	1000	
75-65-0	tert-Butyl Alcohol	96.8	
156-60-5	1,2-Dichloroethene (trans)	51.9	
1634-04-4	Methyl-tert-butyl ether	96.9	
	n-Hexane	44.4	
126-99-8	Chloroprene	31.4	
75-34-3	1,1-Dichloroethane	41.7	
108-05-4	Vinyl Acetate	124	
156-59-2	1,2-Dichloroethene (cis)	57.0	
594-20-7	2,2-Dichloropropane	52.0	
78-93-3	2-Butanone	308	
126-98-7	Methacrylonitrile	275	
74-97-5	Bromochloromethane	57.6	
	Tetrahydrofuran	30.2	
67-66-3	Chloroform	52.2	
71-55-6	1,1,1-Trichloroethane	52.0	
110-82-7	Cyclohexane	54.5	
78-83-1	Isobutyl alcohol	366	
563-58-6	1,1-Dichloropropene	52.3	
56-23-5	Carbon Tetrachloride	50.4	
108-21-4	isopropyl acetate	51.6	
540-84-1	2,2,4-Trimethylpentane	53.3	
71-43-2	Benzene	48.8	
107-06-2	1,2-Dichloroethane	52.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 589165
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	55.2	
108-87-2	Methylcyclohexane	54.9	
78-87-5	1,2-Dichloropropane	55.0	
74-95-3	Dibromomethane	53.4	
----------	1,4-Dioxane	0.000	
80-62-6	Methyl methacrylate	211	
75-27-4	Bromodichloromethane	51.6	
110-75-8	2-Chloroethyl vinyl ether	56.1	
10061-01-5	cis-1,3-Dichloropropene	55.0	
108-10-1	4-Methyl-2-Pentanone	254	
108-88-3	Toluene	59.8	
10061-02-6	trans-1,3-Dichloropropene	49.1	
----------	Ethyl Methacrylate	212	
79-00-5	1,1,2-Trichloroethane	53.2	
127-18-4	Tetrachloroethene	50.0	
142-28-9	1,3-Dichloropropane	55.3	
591-78-6	2-Hexanone	291	
124-48-1	Dibromochloromethane	53.4	
106-93-4	1,2-Dibromoethane	56.8	
108-90-7	Chlorobenzene	51.8	
630-20-6	1,1,1,2-Tetrachloroethane	54.8	
100-41-4	Ethylbenzene	53.2	
7816-60-0	m&p-Xylene	123	
95-47-6	o-Xylene	52.7	
100-42-5	Styrene	53.8	
75-25-2	Bromoform	42.4	
98-82-8	Isopropylbenzene	51.5	
----------	trans-1,4-Dichloro-2-butene	182	
628-63-7	n-amyl acetate	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	49.4	
108-86-1	Bromobenzene	62.4	
96-18-4	1,2,3-Trichloropropane	88.0	
103-65-1	n-Propylbenzene	53.2	
95-49-8	2-Chlorotoluene	51.3	
106-43-4	4-Chlorotoluene	54.1	
108-67-8	1,3,5-Trimethylbenzene	51.1	
98-06-6	tert-Butylbenzene	48.9	
95-63-6	1,2,4-Trimethylbenzene	49.2	
135-98-8	sec-Butylbenzene	53.5	
541-73-1	1,3-Dichlorobenzene	49.4	
99-87-6	p-Isopropyltoluene	50.4	
106-46-7	1,4-Dichlorobenzene	48.0	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

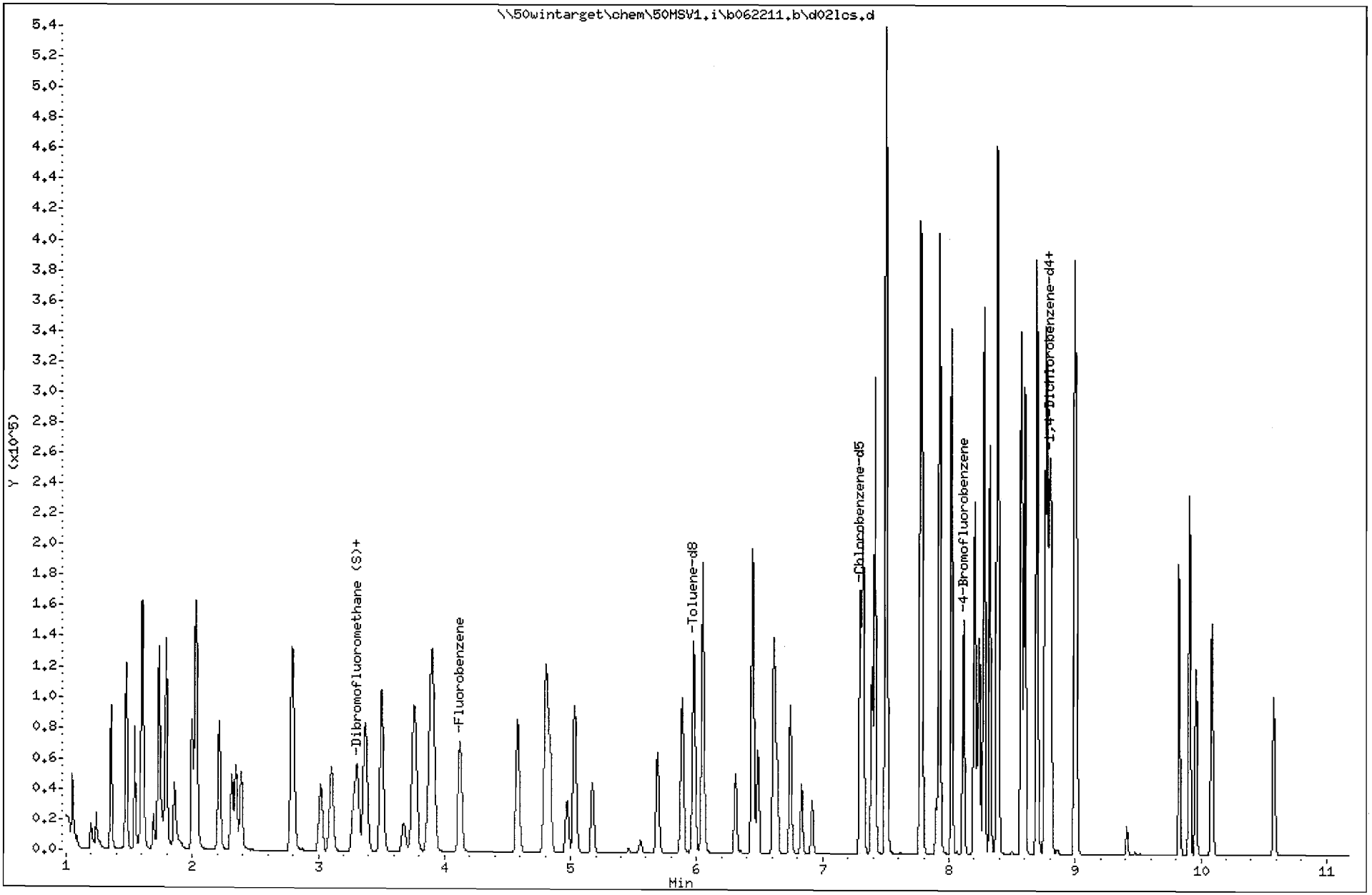
Client Name:
Lab Smp Id: 589165
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: lcs
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
104-51-8	n-Butylbenzene	52.2	
95-50-1	1,2-Dichlorobenzene	50.0	
120-82-1	1,2,4-Trichlorobenzene	46.0	
87-61-6	1,2,3-Trichlorobenzene	49.3	
96-12-8	1,2-Dibromo-3-chloropropane	44.5	
87-68-3	Hexachlorobutadiene	51.4	
91-20-3	Naphthalene	51.0	
	2,methyl-naphthalene	50.6	
1868-53-7	Dibromofluoromethane (S)	50.7	
2037-26-5	Toluene-d8	53.9	
460-00-4	4-Bromofluorobenzene	53.4	

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d02lcs.d
Date : 23-JUN-2011 01:18
Client ID: lcs
Sample Info: lcs
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d02lcs.d

Date : 23-JUN-2011 01:18

Client ID: lcs

Instrument: 50MSV1.i

Sample Info: lcs

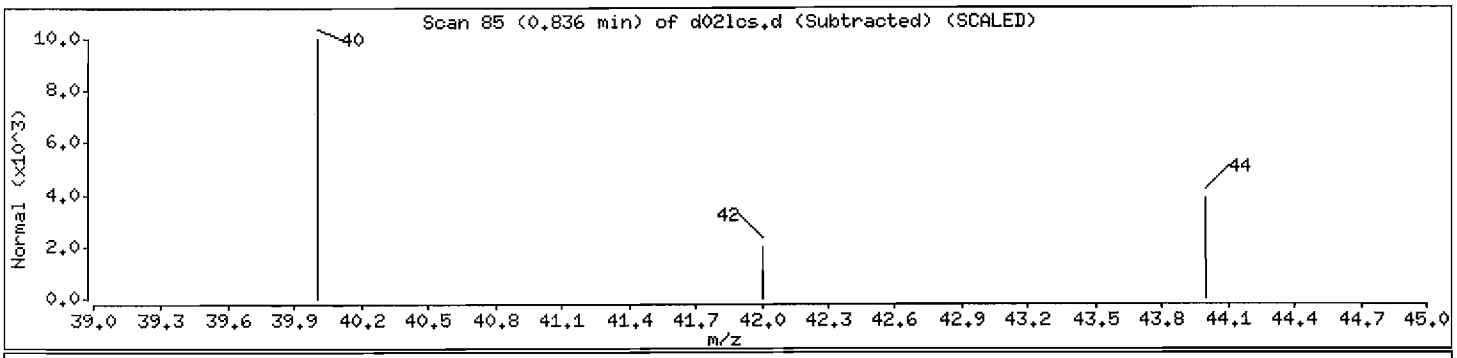
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062211.b\d10.d
Lab Smp Id: 589166 Client Smp ID: ms5050010001
Inj Date : 23-JUN-2011 05:58
Operator : rsw Inst ID: 50MSV1.i
Smp Info : ms5050010001
Misc Info : 33539
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Meth Date : 28-Jun-2011 16:55 rwrede Quant Type: ISTD
Cal Date : 20-JUN-2011 19:02 Cal File: b08.d
Als bottle: 64 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

ms/msd analyzed on trip blank per analyst error. RSW 6/28/11

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.917	0.916	(0.222)	51084	49.8145	49.8
2 Chloromethane	50	1.011	1.010	(0.245)	38335	51.5047	51.5
3 Vinyl Chloride	62	1.047	1.046	(0.254)	37447	58.9120	58.9
4 Bromomethane	94	1.194	1.193	(0.290)	13156	49.7927	49.8
5 Chloroethane	64	1.236	1.235	(0.300)	15460	56.9215	56.9
6 Trichlorofluoromethane	101	1.351	1.350	(0.328)	43018	52.6794	52.7
28 1,2-dichlorotrifluoroethane	67	1.471	1.470	(0.357)	32848	60.8714	60.9
7 Diethyl ether	74	1.481	1.475	(0.359)	8438	60.0030	60.0
8 Acrolein	56	1.544	1.538	(0.375)	28253	1456.02	1460
9 1,1-Dichloroethene	96	1.602	1.601	(0.389)	22566	56.6123	56.6
10 1,1,2trichlorotrifluoroethane	101	1.597	1.596	(0.387)	24352	54.9207	54.9
11 Acetone	43	1.617	1.616	(0.392)	11269	283.378	283
12 Iodomethane	142	1.691	1.690	(0.410)	33448	111.803	112
142 Acetonitrile	41	1.790	1.789	(0.434)	51027	1061.51	1060
13 Carbon Disulfide	76	1.733	1.732	(0.420)	150473	115.037	115
138 Methyl Acetate	43	1.795	1.789	(0.436)	6527	60.6675	60.7
14 allyl chloride	41	1.790	1.789	(0.434)	51027	106.014	106
15 Methylene Chloride	84	1.858	1.857	(0.451)	19846	53.9545	54.0
16 Acrylonitrile	53	1.999	1.998	(0.485)	55991	1121.81	1120
17 tert-Butyl Alcohol	59	1.910	1.909	(0.463)	1840	113.593	114
18 1,2-Dichloroethene (trans)	96	2.031	2.030	(0.493)	23007	55.1907	55.2
19 Methyl-tert-butyl ether	73	2.031	2.024	(0.493)	72954	105.497	105
20 n-Hexane	57	2.214	2.213	(0.537)	33773	48.5436	48.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	146 Chloroprene	53	2.386	2.385	(0.579)	24792	33.3310	33.3
	21 1,1-Dichloroethane	63	2.313	2.312	(0.561)	37827	43.0446	43.0
	23 Vinyl Acetate	43	2.344	2.343	(0.569)	53547	103.651	104
	25 1,2-Dichloroethene (cis)	96	2.794	2.788	(0.678)	31889	62.6473	62.6
	24 2,2-Dichloropropane	77	2.794	2.788	(0.678)	38992	58.0516	58.0
	26 2-Butanone	43	2.805	2.804	(0.680)	25006	285.820	286
	143 Methacrylonitrile	41	3.003	2.997	(0.729)	6771	281.075	281
	29 Bromochloromethane	49	3.019	3.013	(0.732)	17057	61.3794	61.4
	30 Tetrahydrofuran	42	3.087	3.081	(0.749)	3633	32.6964	32.7
	31 Chloroform	83	3.103	3.102	(0.753)	60141	67.8276	67.8(R)
$	32 Dibromofluoromethane (S)	113	3.275	3.269	(0.794)	18866	53.3662	53.4
	33 1,1,1-Trichloroethane	97	3.302	3.301	(0.801)	42501	55.3803	55.4
	139 Cyclohexane	56	3.375	3.369	(0.819)	48103	57.4973	57.5
	37 Isobutyl alcohol	43	3.903	3.881	(0.947)	108426	337.217	337(QR)
	36 1,1-Dichloropropene	75	3.495	3.494	(0.848)	40705	54.4299	54.4
	35 Carbon Tetrachloride	117	3.500	3.499	(0.849)	29571	50.1942	50.2
	144 isopropyl acetate	61	1.047	1.046	(0.254)	2829	59.3693	59.4(Q)
	147 2,2,4-Trimethylpentane	57	3.887	3.876	(0.943)	102004	54.8504	54.8
	38 Benzene	78	3.751	3.756	(0.910)	113247	53.5766	53.6
	39 1,2-Dichloroethane	62	3.772	3.766	(0.915)	24701	57.8346	57.8
*	40 Fluorobenzene	96	4.123	4.122	(1.000)	78638	50.0000	
	41 Trichloroethene	95	4.578	4.577	(1.110)	33420	57.2428	57.2
	140 Methylcyclohexane	55	4.803	4.802	(1.165)	41955	54.6698	54.7
	42 1,2-Dichloropropane	63	4.834	4.833	(1.173)	27657	58.4001	58.4
	43 Dibromomethane	93	4.970	4.969	(1.205)	13321	58.2073	58.2
	141 1,4-Dioxane	88	5.033	5.032	(1.221)	2864		
	44 Methyl methacrylate	69	5.033	5.032	(1.221)	43609	229.126	229(R)
	45 Bromodichloromethane	83	5.174	5.173	(1.255)	35284	60.6615	60.7
	47 cis-1,3-Dichloropropene	75	5.687	5.685	(0.779)	39959	53.3500	53.4
	48 4-Methyl-2-Pentanone	43	5.880	5.879	(0.806)	70579	244.877	245
$	49 Toluene-d8	98	5.974	5.978	(0.819)	88017	51.5270	51.5
	50 Toluene	91	6.047	6.046	(0.829)	132551	55.3073	55.3
	51 trans-1,3-Dichloropropene	75	6.309	6.303	(0.865)	28316	46.4307	46.4
	52 Ethyl Methacrylate	69	6.445	6.439	(0.883)	102814	216.941	217(R)
	53 1,1,2-Trichloroethane	83	6.481	6.480	(0.888)	17071	51.9772	52.0
	54 Tetrachloroethene	166	6.612	6.611	(0.906)	39980	47.6660	47.7
	55 1,3-Dichloropropane	76	6.633	6.632	(0.909)	33549	56.0761	56.1
	56 2-Hexanone	43	6.743	6.742	(0.924)	49064	254.651	255
	57 Dibromochloromethane	129	6.832	6.831	(0.936)	20273	52.7861	52.8
	58 1,2-Dibromoethane	107	6.916	6.915	(0.948)	20078	56.1048	56.1
*	59 Chlorobenzene-d5	117	7.297	7.302	(1.000)	75004	50.0000	
	60 Chlorobenzene	112	7.318	7.317	(1.003)	83947	49.8043	49.8
	61 1,1,1,2-Tetrachloroethane	131	7.392	7.385	(1.013)	24763	53.4969	53.5
	62 Ethylbenzene	106	7.412	7.411	(1.016)	46154	48.2424	48.2
	63 m&p-Xylene	106	7.501	7.500	(1.028)	113104	112.655	113
	65 o-Xylene	106	7.773	7.772	(1.065)	59725	50.8864	50.9
	66 Styrene	104	7.784	7.783	(1.067)	87494	49.3551	49.4
	67 Bromoform	173	7.899	7.898	(0.898)	11326	40.8183	40.8
	68 Isopropylbenzene	105	8.019	8.018	(1.099)	155451	47.9833	48.0
	69 trans-1,4-Dichloro-2-butene	53	8.244	8.243	(1.130)	17964	179.977	180(Q)
$	70 4-Bromofluorobenzene	95	8.113	8.112	(1.112)	34482	49.6251	49.6
	145 n-amyl acetate	70	7.925	7.924	(1.922)	51062		
	72 1,1,2,2-Tetrachloroethane	83	8.213	8.212	(0.934)	25467	51.3229	51.3
	71 Bromobenzene	77	8.202	8.201	(1.124)	71075	58.8951	58.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
73 1,2,3-Trichloropropane	75	8.239	8.227	(0.937)	40858	87.7394	87.7(Q)
74 n-Propylbenzene	91	8.275	8.274	(0.941)	190444	50.9040	50.9
75 2-Chlorotoluene	91	8.323	8.327	(0.946)	115993	53.4523	53.4
76 4-Chlorotoluene	126	8.328	8.327	(0.947)	37575	56.1403	56.1
77 1,3,5-Trimethylbenzene	105	8.380	8.384	(0.953)	120849	49.6625	49.7
78 tert-Butylbenzene	119	8.574	8.573	(0.975)	133797	49.7246	49.7
79 1,2,4-Trimethylbenzene	105	8.600	8.599	(0.978)	121017	46.9390	46.9
80 sec-Butylbenzene	105	8.694	8.698	(0.989)	186205	53.8819	53.9
81 1,3-Dichlorobenzene	146	8.757	8.756	(0.996)	70342	49.0699	49.1
83 p-Isopropyltoluene	119	8.778	8.777	(0.998)	133656	51.0474	51.0
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.792	(1.000)	36354	50.0000	
84 1,4-Dichlorobenzene	146	8.809	8.808	(1.002)	64478	47.4124	47.4
86 n-Butylbenzene	91	8.997	8.996	(1.023)	146819	52.6391	52.6
85 1,2-Dichlorobenzene	146	9.013	9.012	(1.025)	62401	51.3072	51.3
88 1,2,4-Trichlorobenzene	180	9.829	9.828	(1.118)	48849	45.6233	45.6
91 1,2,3-Trichlorobenzene	180	10.085	10.084	(1.147)	40712	48.2692	48.3
87 1,2-Dibromo-3-chloropropane	155	9.410	9.415	(1.070)	3026	44.9932	45.0
89 Hexachlorobutadiene	225	9.912	9.911	(1.127)	40440	50.4541	50.4
90 Naphthalene	128	9.960	9.959	(1.133)	73325	49.1226	49.1
92 2,methyl-naphthalene	142	10.582	10.581	(1.203)	43987	48.7892	48.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d10.d
Lab Smp Id: 589166
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Calibration Date: 23-JUN-2011
Calibration Time: 00:45
Client Smp ID: ms5050010001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	80205	40103	160410	78638	-1.95
59 Chlorobenzene-d5	73321	36661	146642	75004	2.30
82 1,4-Dichlorobenze	35100	17550	70200	36354	3.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.02
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.06
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.01

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 589166
Level: LOW
Data Type: MS DATA
SpikeList File: 8260ms-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Client SDG: b062211.b
Fraction: VOA
Client Smp ID: ms5050010001
Operator: rsw
SampleType: MS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	49.8	99.63	35-200
2 Chloromethane	50.0	51.5	103.01	32-160
3 Vinyl Chloride	50.0	58.9	117.82	45-159
4 Bromomethane	50.0	49.8	99.59	10-200
5 Chloroethane	50.0	56.9	113.84	21-200
6 Trichlorofluoromet	50.0	52.7	105.36	17-200
28 1,2-dichlorotriflu	50.0	60.9	121.74	50-150
7 Diethyl ether	50.0	60.0	120.01	70-130
8 Acrolein	1000	1460	145.60	11-200
10 1,1,2trichlorotrif	50.0	54.9	109.84	53-132
9 1,1-Dichloroethene	50.0	56.6	113.22	54-152
11 Acetone	250	283	113.35	38-155
12 Iodomethane	100	112	111.80	10-171
13 Carbon Disulfide	100	115	115.04	43-144
138 Methyl Acetate	50.0	60.7	121.34	21-200
14 allyl chloride	100	106	106.01	39-155
15 Methylene Chloride	50.0	54.0	107.91	47-141
17 tert-Butyl Alcohol	100	114	113.59	50-150
16 Acrylonitrile	1000	1120	112.18	42-150
19 Methyl-tert-butyl	100	105	105.50	39-137
18 1,2-Dichloroethene	50.0	55.2	110.38	48-144
20 n-Hexane	50.0	48.5	97.09	51-137
21 1,1-Dichloroethane	50.0	43.0	86.09	47-138
23 Vinyl Acetate	200	104	51.83	10-115
27 Propionitrile	50.0	0.000	*	50-150
25 1,2-Dichloroethene	50.0	62.6	125.29	48-145
24 2,2-Dichloropropan	50.0	58.0	116.10	13-142
26 2-Butanone	250	286	114.33	43-142
29 Bromochloromethane	50.0	61.4	122.76	54-144
30 Tetrahydrofuran	50.0	32.7	65.39	50-150
31 Chloroform	50.0	67.8	135.66*	50-134
33 1,1,1-Trichloroeth	50.0	55.4	110.76	37-136
139 Cyclohexane	50.0	57.5	114.99	48-133
37 Isobutyl alcohol	50.0	337	674.43*	50-150
36 1,1-Dichloropropen	50.0	54.4	108.86	47-136
35 Carbon Tetrachlori	50.0	50.2	100.39	26-136
38 Benzene	50.0	53.6	107.15	52-134
39 1,2-Dichloroethane	50.0	57.8	115.67	42-139
41 Trichloroethene	50.0	57.2	114.49	44-130
140 Methylcyclohexane	50.0	54.7	109.34	45-129

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	58.4	116.80	50-131
43 Dibromomethane	50.0	58.2	116.41	49-134
44 Methyl methacrylat	50.0	229	458.25*	50-150
45 Bromodichlorometha	50.0	60.7	121.32	42-128
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	53.4	106.70	34-116
48 4-Methyl-2-Pentano	250	245	97.95	43-140
50 Toluene	50.0	55.3	110.61	42-130
51 trans-1,3-Dichloro	50.0	46.4	92.86	24-114
52 Ethyl Methacrylate	50.0	217	433.88*	54-123
53 1,1,2-Trichloroeth	50.0	52.0	103.95	53-131
54 Tetrachloroethene	50.0	47.7	95.33	30-124
55 1,3-Dichloropropan	50.0	56.1	112.15	53-130
56 2-Hexanone	250	255	101.86	46-139
57 Dibromochlorometha	50.0	52.8	105.57	39-122
58 1,2-Dibromoethane	50.0	56.1	112.21	49-130
60 Chlorobenzene	50.0	49.8	99.61	33-136
61 1,1,1,2-Tetrachlor	50.0	53.5	106.99	30-122
62 Ethylbenzene	50.0	48.2	96.48	29-132
63 m&p-Xylene	100	113	112.65	29-131
65 o-Xylene	50.0	50.9	101.77	29-131
66 Styrene	50.0	49.4	98.71	20-143
67 Bromoform	50.0	40.8	81.64	34-116
68 Isopropylbenzene	50.0	48.0	95.97	11-146
71 Bromobenzene	50.0	58.9	117.79	25-140
72 1,1,2,2-Tetrachlor	50.0	51.3	102.65	47-132
73 1,2,3-Trichloropro	100	87.7	87.74	24-108
69 trans-1,4-Dichloro	200	180	89.99	22-120
74 n-Propylbenzene	50.0	50.9	101.81	10-148
75 2-Chlorotoluene	50.0	53.4	106.90	15-145
76 4-Chlorotoluene	50.0	56.1	112.28	12-143
77 1,3,5-Trimethylben	50.0	49.7	99.33	10-145
78 tert-Butylbenzene	50.0	49.7	99.45	10-123
79 1,2,4-Trimethylben	50.0	46.9	93.88	10-141
80 sec-Butylbenzene	50.0	53.9	107.76	10-150
81 1,3-Dichlorobenzen	50.0	49.1	98.14	13-143
83 p-Isopropyltoluene	50.0	51.0	102.09	10-150
84 1,4-Dichlorobenzen	50.0	47.4	94.82	10-140
86 n-Butylbenzene	50.0	52.6	105.28	10-156
85 1,2-Dichlorobenzen	50.0	51.3	102.61	20-137
87 1,2-Dibromo-3-chlo	50.0	45.0	89.99	32-139
88 1,2,4-Trichloroben	50.0	45.6	91.25	10-130
89 Hexachlorobutadien	50.0	50.4	100.91	10-146
90 Naphthalene	50.0	49.1	98.25	40-124
91 1,2,3-Trichloroben	50.0	48.3	96.54	15-132
92 2,methyl-naphthale	50.0	48.8	97.58	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	53.4	106.73	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	51.5	103.05	80-120
$ 70 4-Bromofluorobenze	50.0	49.6	99.25	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 589166
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: ms5050010001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	49.8	
74-87-3	Chloromethane	51.5	
75-01-4	Vinyl Chloride	58.9	
74-83-9	Bromomethane	49.8	
75-00-3	Chloroethane	56.9	
75-69-4	Trichlorofluoromethane	52.7	
354-23-4	1,2-dichlorotrifluoroethane	60.9	
60-29-7	Diethyl ether	60.0	
107-02-8	Acrolein	1460	
75-35-4	1,1-Dichloroethene	56.6	
76-13-1	1,1,2trichlorotrifluoroethan	54.9	
67-64-1	Acetone	283	
	Iodomethane	112	
75-05-8	Acetonitrile	1060	
75-15-0	Carbon Disulfide	115	
79-20-9	Methyl Acetate	60.7	
107-05-1	allyl chloride	106	
75-09-2	Methylene Chloride	54.0	
107-13-1	Acrylonitrile	1120	
75-65-0	tert-Butyl Alcohol	114	
156-60-5	1,2-Dichloroethene (trans)	55.2	
1634-04-4	Methyl-tert-butyl ether	105	
	n-Hexane	48.5	
126-99-8	Chloroprene	33.3	
75-34-3	1,1-Dichloroethane	43.0	
108-05-4	Vinyl Acetate	104	
156-59-2	1,2-Dichloroethene (cis)	62.6	
594-20-7	2,2-Dichloropropane	58.0	
78-93-3	2-Butanone	286	
126-98-7	Methacrylonitrile	281	
74-97-5	Bromochloromethane	61.4	
	Tetrahydrofuran	32.7	
67-66-3	Chloroform	67.8	
71-55-6	1,1,1-Trichloroethane	55.4	
110-82-7	Cyclohexane	57.5	
78-83-1	Isobutyl alcohol	337	
563-58-6	1,1-Dichloropropene	54.4	
56-23-5	Carbon Tetrachloride	50.2	
108-21-4	isopropyl acetate	59.4	
540-84-1	2,2,4-Trimethylpentane	54.8	
71-43-2	Benzene	53.6	
107-06-2	1,2-Dichloroethane	57.8	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 589166
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: ms5050010001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	57.2	
108-87-2	Methylcyclohexane	54.7	
78-87-5	1,2-Dichloropropane	58.4	
74-95-3	Dibromomethane	58.2	
	1,4-Dioxane	0.000	
80-62-6	Methyl methacrylate	229	
75-27-4	Bromodichloromethane	60.7	
10061-01-5	cis-1,3-Dichloropropene	53.4	
108-10-1	4-Methyl-2-Pentanone	245	
108-88-3	Toluene	55.3	
10061-02-6	trans-1,3-Dichloropropene	46.4	
	Ethyl Methacrylate	217	
79-00-5	1,1,2-Trichloroethane	52.0	
127-18-4	Tetrachloroethene	47.7	
142-28-9	1,3-Dichloropropane	56.1	
591-78-6	2-Hexanone	255	
124-48-1	Dibromochloromethane	52.8	
106-93-4	1,2-Dibromoethane	56.1	
108-90-7	Chlorobenzene	49.8	
630-20-6	1,1,1,2-Tetrachloroethane	53.5	
100-41-4	Ethylbenzene	48.2	
7816-60-0	m&p-Xylene	113	
95-47-6	o-Xylene	50.9	
100-42-5	Styrene	49.4	
75-25-2	Bromoform	40.8	
98-82-8	Isopropylbenzene	48.0	
	trans-1,4-Dichloro-2-butene	180	
628-63-7	n-amyl acetate	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	51.3	
108-86-1	Bromobenzene	58.9	
96-18-4	1,2,3-Trichloropropane	87.7	
103-65-1	n-Propylbenzene	50.9	
95-49-8	2-Chlorotoluene	53.4	
106-43-4	4-Chlorotoluene	56.1	
108-67-8	1,3,5-Trimethylbenzene	49.7	
98-06-6	tert-Butylbenzene	49.7	
95-63-6	1,2,4-Trimethylbenzene	46.9	
135-98-8	sec-Butylbenzene	53.9	
541-73-1	1,3-Dichlorobenzene	49.1	
99-87-6	p-Isopropyltoluene	51.0	
106-46-7	1,4-Dichlorobenzene	47.4	
104-51-8	n-Butylbenzene	52.6	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

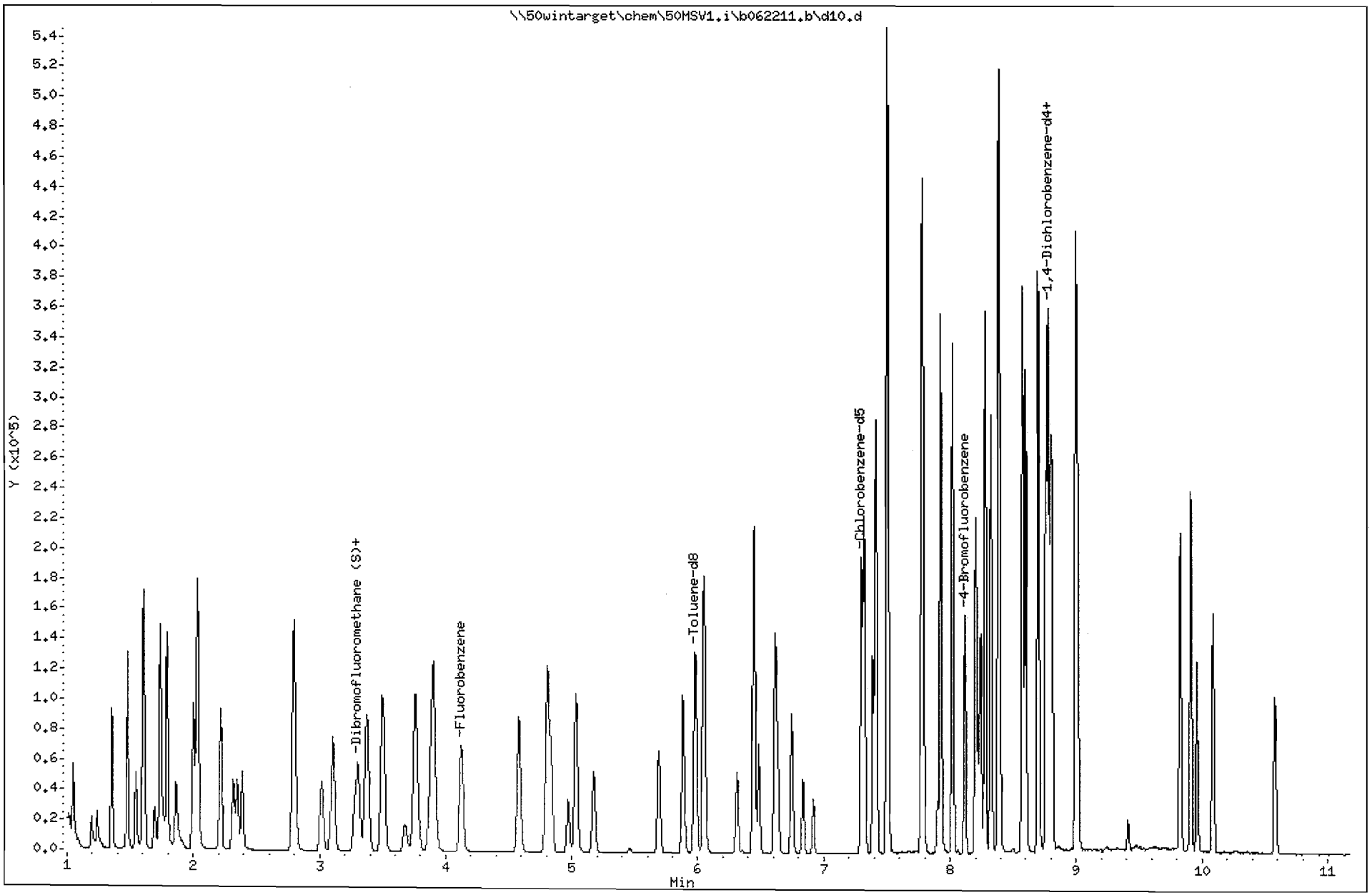
Client Name:
Lab Smp Id: 589166
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: ms5050010001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1	1,2-Dichlorobenzene	51.3	
120-82-1	1,2,4-Trichlorobenzene	45.6	
87-61-6	1,2,3-Trichlorobenzene	48.3	
96-12-8	1,2-Dibromo-3-chloropropane	45.0	
87-68-3	Hexachlorobutadiene	50.4	
91-20-3	Naphthalene	49.1	
	2,methyl-naphthalene	48.8	
1868-53-7	Dibromofluoromethane (S)	53.4	
2037-26-5	Toluene-d8	51.5	
460-00-4	4-Bromofluorobenzene	49.6	

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d10.d
Date : 23-JUN-2011 05:58
Client ID: ms5050010001
Sample Info: ms5050010001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d10.d

Date : 23-JUN-2011 05:58

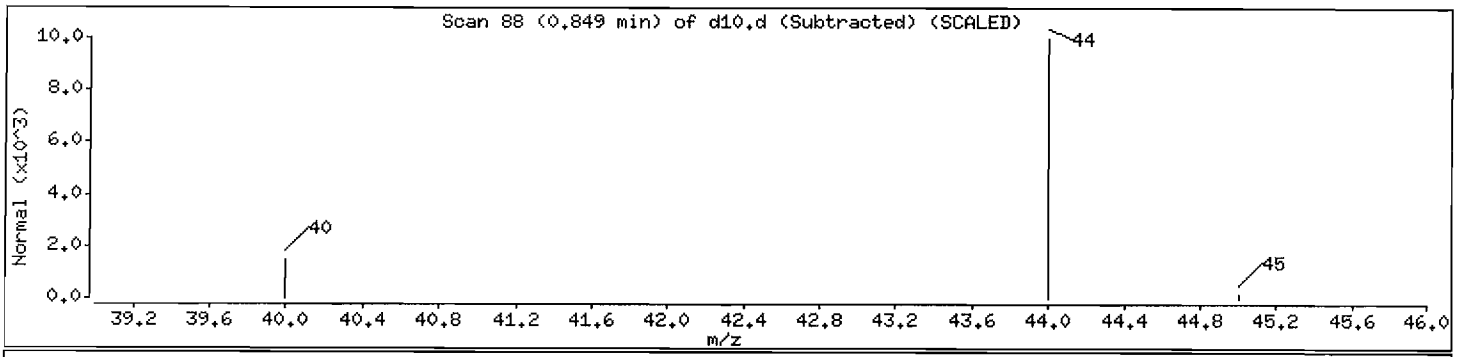
Client ID: ms5050010001 Instrument: 50MSV1.i

Sample Info: ms5050010001

Purge Volume: 5.0 Operator: rsw

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062211.b\d11.d
Lab Smp Id: 589167 Client Smp ID: msd5050010001
Inj Date : 23-JUN-2011 06:34
Operator : rsw Inst ID: 50MSV1.i
Smp Info : msd5050010001
Misc Info : 33539
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Meth Date : 28-Jun-2011 16:55 rwrede Quant Type: ISTD
Cal Date : 20-JUN-2011 19:02 Cal File: b08.d
Als bottle: 66 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1 Dichlorodifluoromethane	85	0.919	0.916	(0.223)	57304	56.4245	56.4
2 Chloromethane	50	1.018	1.010	(0.247)	42647	57.8565	57.8
3 Vinyl Chloride	62	1.044	1.046	(0.254)	41611	66.1896	66.2
4 Bromomethane	94	1.191	1.193	(0.289)	16237	61.5474	61.5
5 Chloroethane	64	1.238	1.235	(0.301)	18801	70.6277	70.6
6 Trichlorofluoromethane	101	1.353	1.350	(0.328)	47906	59.2369	59.2
28 1,2-dichlorotrifluoroethane	67	1.473	1.470	(0.358)	35380	66.2024	66.2
7 Diethyl ether	74	1.478	1.475	(0.359)	9035	64.8745	64.9
8 Acrolein	56	1.541	1.538	(0.374)	33037	1732.16	1730
9 1,1-Dichloroethene	96	1.604	1.601	(0.389)	25880	65.5590	65.6
10 1,1,2trichlorotrifluoroethane	101	1.599	1.596	(0.388)	26990	61.4633	61.5
11 Acetone	43	1.614	1.616	(0.392)	12320	314.955	315
12 Iodomethane	142	1.688	1.690	(0.410)	37510	125.738	126
142 Acetonitrile	41	1.792	1.789	(0.435)	54345	1141.55	1140
13 Carbon Disulfide	76	1.735	1.732	(0.421)	162568	125.495	125
138 Methyl Acetate	43	1.792	1.789	(0.435)	6820	63.9489	63.9
14 allyl chloride	41	1.792	1.789	(0.435)	54345	114.008	114
15 Methylene Chloride	84	1.860	1.857	(0.452)	20980	57.5933	57.6
16 Acrylonitrile	53	1.996	1.998	(0.485)	60367	1221.27	1220
17 tert-Butyl Alcohol	59	1.912	1.909	(0.464)	1773	110.524	110
18 1,2-Dichloroethene (trans)	96	2.033	2.030	(0.493)	24927	60.3793	60.4
19 Methyl-tert-butyl ether	73	2.027	2.024	(0.492)	78493	114.613	115
20 n-Hexane	57	2.211	2.213	(0.537)	37233	54.0385	54.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
146 Chloroprene	53	2.388	2.385	(0.580)	25863	35.1098	35.1
21 1,1-Dichloroethane	63	2.315	2.312	(0.562)	42524	48.8611	48.9
23 Vinyl Acetate	43	2.347	2.343	(0.570)	58974	115.268	115
25 1,2-Dichloroethene (cis)	96	2.791	2.788	(0.678)	34061	67.5664	67.6
24 2,2-Dichloropropane	77	2.791	2.788	(0.678)	41516	62.4118	62.4
26 2-Butanone	43	2.802	2.804	(0.680)	26643	307.699	308
143 Methacrylonitrile	41	3.006	2.997	(0.730)	7704	322.922	323
29 Bromochloromethane	49	3.016	3.013	(0.732)	18055	65.6039	65.6
30 Tetrahydrofuran	42	3.084	3.081	(0.749)	3741	33.9965	34.0
31 Chloroform	83	3.105	3.102	(0.754)	63874	72.7398	72.7(R)
$ 32 Dibromofluoromethane (S)	113	3.278	3.269	(0.796)	18105	51.7127	51.7
33 1,1,1-Trichloroethane	97	3.304	3.301	(0.802)	44821	58.9725	59.0
139 Cyclohexane	56	3.372	3.369	(0.818)	50948	61.4914	61.5
37 Isobutyl alcohol	43	3.905	3.881	(0.948)	121880	382.754	383(QR)
36 1,1-Dichloropropene	75	3.497	3.494	(0.849)	44660	60.3004	60.3
35 Carbon Tetrachloride	117	3.502	3.499	(0.850)	33741	57.3253	57.3
144 isopropyl acetate	61	1.044	1.046	(0.254)	3039	64.3979	64.4(Q)
147 2,2,4-Trimethylpentane	57	3.884	3.876	(0.943)	114385	62.1075	62.1
38 Benzene	78	3.748	3.756	(0.910)	118874	56.7868	56.8
39 1,2-Dichloroethane	62	3.774	3.766	(0.916)	25157	59.4763	59.5
* 40 Fluorobenzene	96	4.120	4.122	(1.000)	77879	50.0000	
41 Trichloroethene	95	4.580	4.577	(1.112)	35838	61.9827	62.0
140 Methylcyclohexane	55	4.805	4.802	(1.166)	46303	60.9235	60.9
42 1,2-Dichloropropane	63	4.836	4.833	(1.174)	29349	62.5769	62.6
43 Dibromomethane	93	4.967	4.969	(1.206)	13977	61.6690	61.7
141 1,4-Dioxane	88	5.030	5.032	(1.221)	3002		
44 Methyl methacrylate	69	5.035	5.032	(1.222)	46032	244.214	244(R)
45 Bromodichloromethane	83	5.171	5.173	(1.255)	37857	65.7195	65.7(R)
47 cis-1,3-Dichloropropene	75	5.689	5.685	(0.779)	41539	56.6306	56.6
48 4-Methyl-2-Pentanone	43	5.882	5.879	(0.806)	73671	261.002	261
$ 49 Toluene-d8	98	5.976	5.978	(0.819)	83415	49.8641	49.9
50 Toluene	91	6.049	6.046	(0.829)	148579	63.8217	63.8
51 trans-1,3-Dichloropropene	75	6.306	6.303	(0.864)	31582	52.8796	52.9
52 Ethyl Methacrylate	69	6.442	6.439	(0.882)	110491	238.062	238(R)
53 1,1,2-Trichloroethane	83	6.484	6.480	(0.888)	18640	57.9529	58.0
54 Tetrachloroethene	166	6.614	6.611	(0.906)	44114	53.7053	53.7
55 1,3-Dichloropropane	76	6.635	6.632	(0.909)	35853	61.1925	61.2
56 2-Hexanone	43	6.745	6.742	(0.924)	53932	286.733	287
57 Dibromochloromethane	129	6.834	6.831	(0.936)	21969	58.4099	58.4
58 1,2-Dibromoethane	107	6.912	6.915	(0.947)	21487	61.3099	61.3
* 59 Chlorobenzene-d5	117	7.299	7.302	(1.000)	73453	50.0000	
60 Chlorobenzene	112	7.320	7.317	(1.003)	90344	54.7314	54.7
61 1,1,1,2-Tetrachloroethane	131	7.388	7.385	(1.012)	26682	58.8597	58.8
62 Ethylbenzene	106	7.415	7.411	(1.016)	50645	54.0544	54.0
63 m&p-Xylene	106	7.503	7.500	(1.028)	120717	123.708	124
65 o-Xylene	106	7.775	7.772	(1.065)	63353	55.1173	55.1
66 Styrene	104	7.786	7.783	(1.067)	91675	52.8055	52.8
67 Bromoform	173	7.901	7.898	(0.898)	13121	45.9593	46.0
68 Isopropylbenzene	105	8.021	8.018	(1.099)	169057	53.2849	53.3
69 trans-1,4-Dichloro-2-butene	53	8.241	8.243	(1.129)	19527	199.577	200(Q)
$ 70 4-Bromofluorobenzene	95	8.115	8.112	(1.112)	33748	49.5943	49.6
145 n-amyl acetate	70	7.927	7.924	(1.924)	54574		
72 1,1,2,2-Tetrachloroethane	83	8.210	8.212	(0.933)	27194	54.5631	54.6
71 Bromobenzene	77	8.199	8.201	(1.123)	61867	52.3475	52.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
73 1,2,3-Trichloropropane	75	8.241	8.227	(0.937)	45330	96.9161	96.9(Q)
74 n-Propylbenzene	91	8.278	8.274	(0.941)	204456	54.4099	54.4
75 2-Chlorotoluene	91	8.325	8.327	(0.946)	119406	54.7840	54.8
76 4-Chlorotoluene	126	8.325	8.327	(0.946)	38690	57.5529	57.6
77 1,3,5-Trimethylbenzene	105	8.382	8.384	(0.953)	127285	52.0782	52.1
78 tert-Butylbenzene	119	8.570	8.573	(0.974)	143967	53.2698	53.3
79 1,2,4-Trimethylbenzene	105	8.597	8.599	(0.977)	130387	50.3517	50.4
80 sec-Butylbenzene	105	8.696	8.698	(0.989)	195986	56.4637	56.5
81 1,3-Dichlorobenzene	146	8.759	8.756	(0.996)	76390	53.0554	53.0
83 p-Isopropyltoluene	119	8.774	8.777	(0.998)	145241	55.2290	55.2
* 82 1,4-Dichlorobenzene-d4	152	8.795	8.792	(1.000)	36514	50.0000	
84 1,4-Dichlorobenzene	146	8.811	8.808	(1.002)	71380	52.2576	52.2
86 n-Butylbenzene	91	8.994	8.996	(1.023)	157653	56.2757	56.3
85 1,2-Dichlorobenzene	146	9.010	9.012	(1.024)	66526	54.4592	54.4
88 1,2,4-Trichlorobenzene	180	9.831	9.828	(1.118)	52643	48.9513	49.0
91 1,2,3-Trichlorobenzene	180	10.087	10.084	(1.147)	45622	53.8536	53.8
87 1,2-Dibromo-3-chloropropane	155	9.412	9.415	(1.070)	3328	48.4088	48.4
89 Hexachlorobutadiene	225	9.909	9.911	(1.127)	42906	53.2961	53.3
90 Naphthalene	128	9.962	9.959	(1.133)	78063	52.0676	52.1
92 2,methyl-naphthalene	142	10.584	10.581	(1.203)	48649	53.7237	53.7

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d11.d
Lab Smp Id: 589167
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Calibration Date: 23-JUN-2011
Calibration Time: 00:45
Client Smp ID: msd5050010001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	80205	40103	160410	77879	-2.90
59 Chlorobenzene-d5	73321	36661	146642	73453	0.18
82 1,4-Dichlorobenze	35100	17550	70200	36514	4.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.05
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.03
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.80	0.04

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 589167
Level: LOW
Data Type: MS DATA
SpikeList File: 8260ms-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Client SDG: b062211.b
Fraction: VOA
Client Smp ID: msd5050010001
Operator: rsw
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.0	56.4	112.85	35-200
2 Chloromethane	50.0	57.8	115.71	32-160
3 Vinyl Chloride	50.0	66.2	132.38	45-159
4 Bromomethane	50.0	61.5	123.09	10-200
5 Chloroethane	50.0	70.6	141.26	21-200
6 Trichlorofluoromet	50.0	59.2	118.47	17-200
28 1,2-dichlorotriflu	50.0	66.2	132.40	50-150
7 Diethyl ether	50.0	64.9	129.75	70-130
8 Acrolein	1000	1730	173.22	11-200
10 1,1,2trichlorotrif	50.0	61.5	122.93	53-132
9 1,1-Dichloroethene	50.0	65.6	131.12	54-152
11 Acetone	250	315	125.98	38-155
12 Iodomethane	100	126	125.74	10-171
13 Carbon Disulfide	100	125	125.49	43-144
138 Methyl Acetate	50.0	63.9	127.90	21-200
14 allyl chloride	100	114	114.01	39-155
15 Methylene Chloride	50.0	57.6	115.19	47-141
17 tert-Butyl Alcohol	100	110	110.52	50-150
16 Acrylonitrile	1000	1220	122.13	42-150
19 Methyl-tert-butyl	100	115	114.61	39-137
18 1,2-Dichloroethene	50.0	60.4	120.76	48-144
20 n-Hexane	50.0	54.0	108.08	51-137
21 1,1-Dichloroethane	50.0	48.9	97.72	47-138
23 Vinyl Acetate	200	115	57.63	10-115
27 Propionitrile	50.0	0.000	*	50-150
25 1,2-Dichloroethene	50.0	67.6	135.13	48-145
24 2,2-Dichloropropan	50.0	62.4	124.82	13-142
26 2-Butanone	250	308	123.08	43-142
29 Bromochloromethane	50.0	65.6	131.21	54-144
30 Tetrahydrofuran	50.0	34.0	67.99	50-150
31 Chloroform	50.0	72.7	145.48*	50-134
33 1,1,1-Trichloroeth	50.0	59.0	117.95	37-136
139 Cyclohexane	50.0	61.5	122.98	48-133
37 Isobutyl alcohol	50.0	383	765.51*	50-150
36 1,1-Dichloropropen	50.0	60.3	120.60	47-136
35 Carbon Tetrachlori	50.0	57.3	114.65	26-136
38 Benzene	50.0	56.8	113.57	52-134
39 1,2-Dichloroethane	50.0	59.5	118.95	42-139
41 Trichloroethene	50.0	62.0	123.97	44-130
140 Methylcyclohexane	50.0	60.9	121.85	45-129

SPIKE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
42 1,2-Dichloropropan	50.0	62.6	125.15	50-131
43 Dibromomethane	50.0	61.7	123.34	49-134
44 Methyl methacrylat	50.0	244	488.43*	50-150
45 Bromodichlorometha	50.0	65.7	131.44*	42-128
46 2-Chloroethyl vin	100	0.000	*	50-150
47 cis-1,3-Dichloropr	50.0	56.6	113.26	34-116
48 4-Methyl-2-Pentano	250	261	104.40	43-140
50 Toluene	50.0	63.8	127.64	42-130
51 trans-1,3-Dichloro	50.0	52.9	105.76	24-114
52 Ethyl Methacrylate	50.0	238	476.12*	54-123
53 1,1,2-Trichloroeth	50.0	58.0	115.91	53-131
54 Tetrachloroethene	50.0	53.7	107.41	30-124
55 1,3-Dichloropropan	50.0	61.2	122.39	53-130
56 2-Hexanone	250	287	114.69	46-139
57 Dibromochlorometha	50.0	58.4	116.82	39-122
58 1,2-Dibromoethane	50.0	61.3	122.62	49-130
60 Chlorobenzene	50.0	54.7	109.46	33-136
61 1,1,1,2-Tetrachlor	50.0	58.8	117.72	30-122
62 Ethylbenzene	50.0	54.0	108.11	29-132
63 m&p-Xylene	100	124	123.71	29-131
65 o-Xylene	50.0	55.1	110.23	29-131
66 Styrene	50.0	52.8	105.61	20-143
67 Bromoform	50.0	46.0	91.92	34-116
68 Isopropylbenzene	50.0	53.3	106.57	11-146
71 Bromobenzene	50.0	52.3	104.70	25-140
72 1,1,2,2-Tetrachlor	50.0	54.6	109.13	47-132
73 1,2,3-Trichloropro	100	96.9	96.92	24-108
69 trans-1,4-Dichloro	200	200	99.79	22-120
74 n-Propylbenzene	50.0	54.4	108.82	10-148
75 2-Chlorotoluene	50.0	54.8	109.57	15-145
76 4-Chlorotoluene	50.0	57.6	115.11	12-143
77 1,3,5-Trimethylben	50.0	52.1	104.16	10-145
78 tert-Butylbenzene	50.0	53.3	106.54	10-123
79 1,2,4-Trimethylben	50.0	50.4	100.70	10-141
80 sec-Butylbenzene	50.0	56.5	112.93	10-150
81 1,3-Dichlorobenzen	50.0	53.0	106.11	13-143
83 p-Isopropyltoluene	50.0	55.2	110.46	10-150
84 1,4-Dichlorobenzen	50.0	52.2	104.52	10-140
86 n-Butylbenzene	50.0	56.3	112.55	10-156
85 1,2-Dichlorobenzen	50.0	54.4	108.92	20-137
87 1,2-Dibromo-3-chlo	50.0	48.4	96.82	32-139
88 1,2,4-Trichloroben	50.0	49.0	97.90	10-130
89 Hexachlorobutadien	50.0	53.3	106.59	10-146
90 Naphthalene	50.0	52.1	104.14	40-124
91 1,2,3-Trichloroben	50.0	53.8	107.71	15-132
92 2,methyl-naphthale	50.0	53.7	107.45	50-150

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	51.7	103.43	82-122

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 49 Toluene-d8	50.0	49.9	99.73	80-120
$ 70 4-Bromofluorobenze	50.0	49.6	99.19	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 589167
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: msd5050010001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
75-71-8	Dichlorodifluoromethane	56.4	
74-87-3	Chloromethane	57.8	
75-01-4	Vinyl Chloride	66.2	
74-83-9	Bromomethane	61.5	
75-00-3	Chloroethane	70.6	
75-69-4	Trichlorofluoromethane	59.2	
354-23-4	1,2-dichlorotrifluoroethane	66.2	
60-29-7	Diethyl ether	64.9	
107-02-8	Acrolein	1730	
75-35-4	1,1-Dichloroethene	65.6	
76-13-1	1,1,2trichlorotrifluoroethan	61.5	
67-64-1	Acetone	315	
	Iodomethane	126	
75-05-8	Acetonitrile	1140	
75-15-0	Carbon Disulfide	125	
79-20-9	Methyl Acetate	63.9	
107-05-1	allyl chloride	114	
75-09-2	Methylene Chloride	57.6	
107-13-1	Acrylonitrile	1220	
75-65-0	tert-Butyl Alcohol	110	
156-60-5	1,2-Dichloroethene (trans)	60.4	
1634-04-4	Methyl-tert-butyl ether	115	
	n-Hexane	54.0	
126-99-8	Chloroprene	35.1	
75-34-3	1,1-Dichloroethane	48.9	
108-05-4	Vinyl Acetate	115	
156-59-2	1,2-Dichloroethene (cis)	67.6	
594-20-7	2,2-Dichloropropane	62.4	
78-93-3	2-Butanone	308	
126-98-7	Methacrylonitrile	323	
74-97-5	Bromochloromethane	65.6	
	Tetrahydrofuran	34.0	
67-66-3	Chloroform	72.7	
71-55-6	1,1,1-Trichloroethane	59.0	
110-82-7	Cyclohexane	61.5	
78-83-1	Isobutyl alcohol	383	
563-58-6	1,1-Dichloropropene	60.3	
56-23-5	Carbon Tetrachloride	57.3	
108-21-4	isopropyl acetate	64.4	
540-84-1	2,2,4-Trimethylpentane	62.1	
71-43-2	Benzene	56.8	
107-06-2	1,2-Dichloroethane	59.5	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 589167
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: msd5050010001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
79-01-6	Trichloroethene	62.0	
108-87-2	Methylcyclohexane	60.9	
78-87-5	1,2-Dichloropropane	62.6	
74-95-3	Dibromomethane	61.7	
	1,4-Dioxane	0.000	
80-62-6	Methyl methacrylate	244	
75-27-4	Bromodichloromethane	65.7	
10061-01-5	cis-1,3-Dichloropropene	56.6	
108-10-1	4-Methyl-2-Pentanone	261	
108-88-3	Toluene	63.8	
10061-02-6	trans-1,3-Dichloropropene	52.9	
	Ethyl Methacrylate	238	
79-00-5	1,1,2-Trichloroethane	58.0	
127-18-4	Tetrachloroethene	53.7	
142-28-9	1,3-Dichloropropane	61.2	
591-78-6	2-Hexanone	287	
124-48-1	Dibromochloromethane	58.4	
106-93-4	1,2-Dibromoethane	61.3	
108-90-7	Chlorobenzene	54.7	
630-20-6	1,1,1,2-Tetrachloroethane	58.8	
100-41-4	Ethylbenzene	54.0	
7816-60-0	m&p-Xylene	124	
95-47-6	o-Xylene	55.1	
100-42-5	Styrene	52.8	
75-25-2	Bromoform	46.0	
98-82-8	Isopropylbenzene	53.3	
	trans-1,4-Dichloro-2-butene	200	
628-63-7	n-amyl acetate	0.000	
79-34-5	1,1,2,2-Tetrachloroethane	54.6	
108-86-1	Bromobenzene	52.3	
96-18-4	1,2,3-Trichloropropane	96.9	
103-65-1	n-Propylbenzene	54.4	
95-49-8	2-Chlorotoluene	54.8	
106-43-4	4-Chlorotoluene	57.6	
108-67-8	1,3,5-Trimethylbenzene	52.1	
98-06-6	tert-Butylbenzene	53.3	
95-63-6	1,2,4-Trimethylbenzene	50.4	
135-98-8	sec-Butylbenzene	56.5	
541-73-1	1,3-Dichlorobenzene	53.0	
99-87-6	p-Isopropyltoluene	55.2	
106-46-7	1,4-Dichlorobenzene	52.2	
104-51-8	n-Butylbenzene	56.3	

Pace Analytical Services, Inc.

TARGET COMPOUNDS

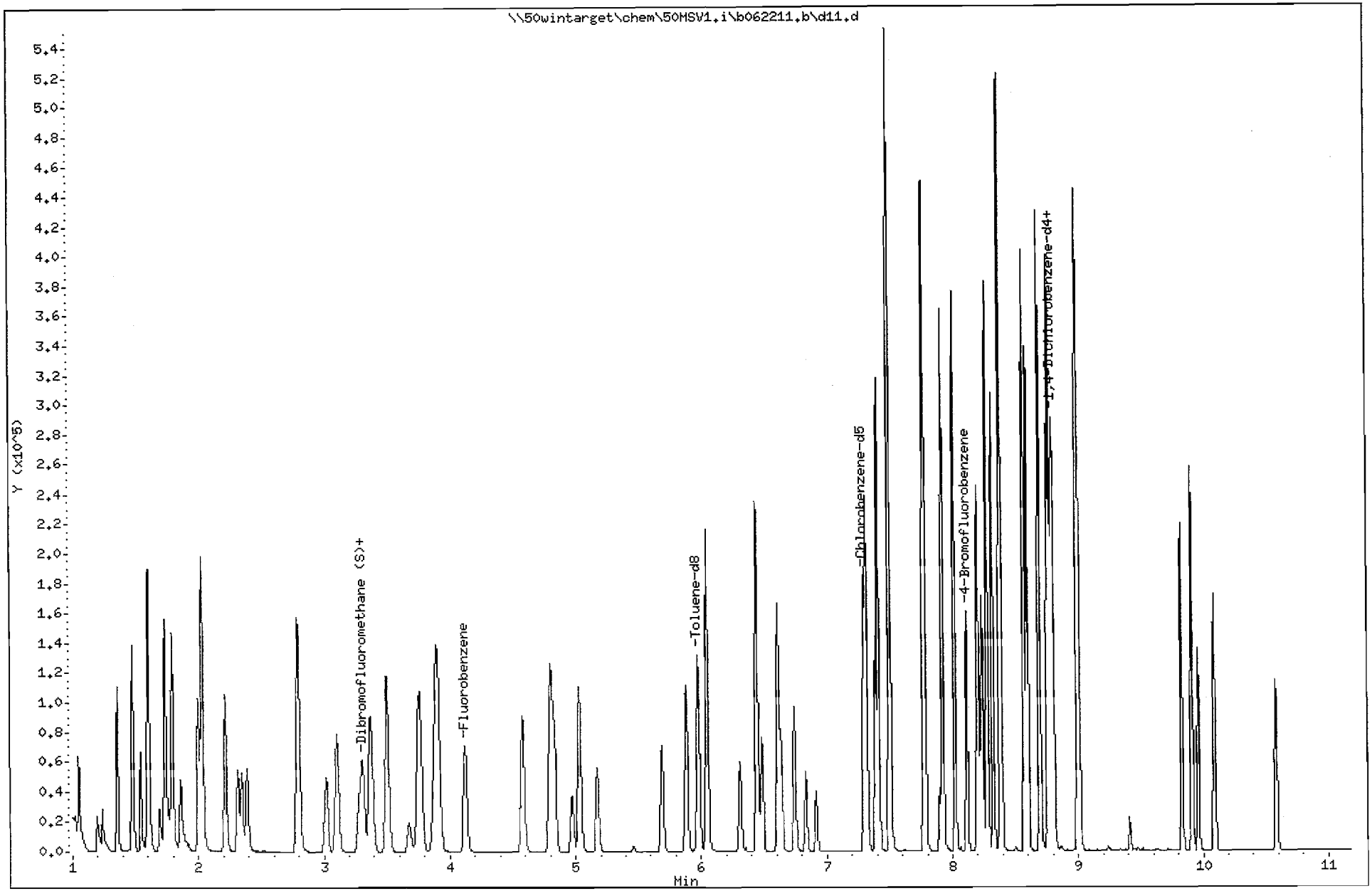
Client Name:
Lab Smp Id: 589167
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: msd5050010001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
95-50-1	1,2-Dichlorobenzene	54.4	
120-82-1	1,2,4-Trichlorobenzene	49.0	
87-61-6	1,2,3-Trichlorobenzene	53.8	
96-12-8	1,2-Dibromo-3-chloropropane	48.4	
87-68-3	Hexachlorobutadiene	53.3	
91-20-3	Naphthalene	52.1	
	2,methyl-naphthalene	53.7	
1868-53-7	Dibromofluoromethane (S)	51.7	
2037-26-5	Toluene-d8	49.9	
460-00-4	4-Bromofluorobenzene	49.6	

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d11.d
Date : 23-JUN-2011 06:34
Client ID: msd5050010001
Sample Info: msd5050010001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d11.d

Date : 23-JUN-2011 06:34

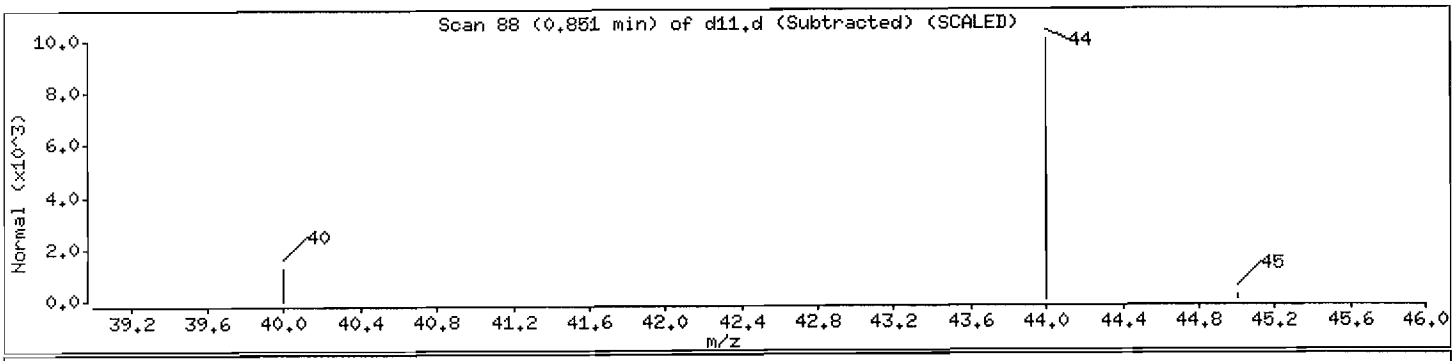
Client ID: msd5050010001 Instrument: 50MSV1.i

Sample Info: msd5050010001

Purge Volume: 5.0 Operator: rsw

Column phase: DB-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 5: Method Blank Data

** Method Blanks*

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062211.b\d03mb.d
Lab Smp Id: 589164 Client Smp ID: mb
Inj Date : 23-JUN-2011 01:54
Operator : rsw Inst ID: 50MSV1.i
Smp Info : mb
Misc Info : 33539
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Meth Date : 28-Jun-2011 16:55 rwrede Quant Type: ISTD
Cal Date : 20-JUN-2011 19:02 Cal File: b08.d
Als bottle: 50 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$ 32 Dibromofluoromethane (S)	113	3.274	3.269	(0.794)	19741	49.2282	49.2
* 40 Fluorobenzene	96	4.121	4.122	(1.000)	89202	50.0000	
$ 49 Toluene-d8	98	5.972	5.978	(0.819)	94178	51.9446	51.9
* 59 Chlorobenzene-d5	117	7.296	7.302	(1.000)	79609	50.0000	
$ 70 4-Bromofluorobenzene	95	8.112	8.112	(1.112)	37715	51.1382	51.1
* 82 1,4-Dichlorobenzene-d4	152	8.792	8.792	(1.000)	42448	50.0000	
92 2,methyl-naphthalene	142	10.585	10.581	(1.204)	1896	1.80108	1.80

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d03mb.d
Lab Smp Id: 589164
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Calibration Date: 23-JUN-2011
Calibration Time: 00:45
Client Smp ID: mb
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	80205	40103	160410	89202	11.22
59 Chlorobenzene-d5	73321	36661	146642	79609	8.58
82 1,4-Dichlorobenze	35100	17550	70200	42448	20.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	-0.02
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.08
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	-0.01

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 589164
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Client SDG: b062211.b
Fraction: VOA
Client Smp ID: mb
Operator: rsw
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.2	98.46	82-122
$ 49 Toluene-d8	50.0	51.9	103.89	80-120
$ 70 4-Bromofluorobenze	50.0	51.1	102.28	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 589164
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

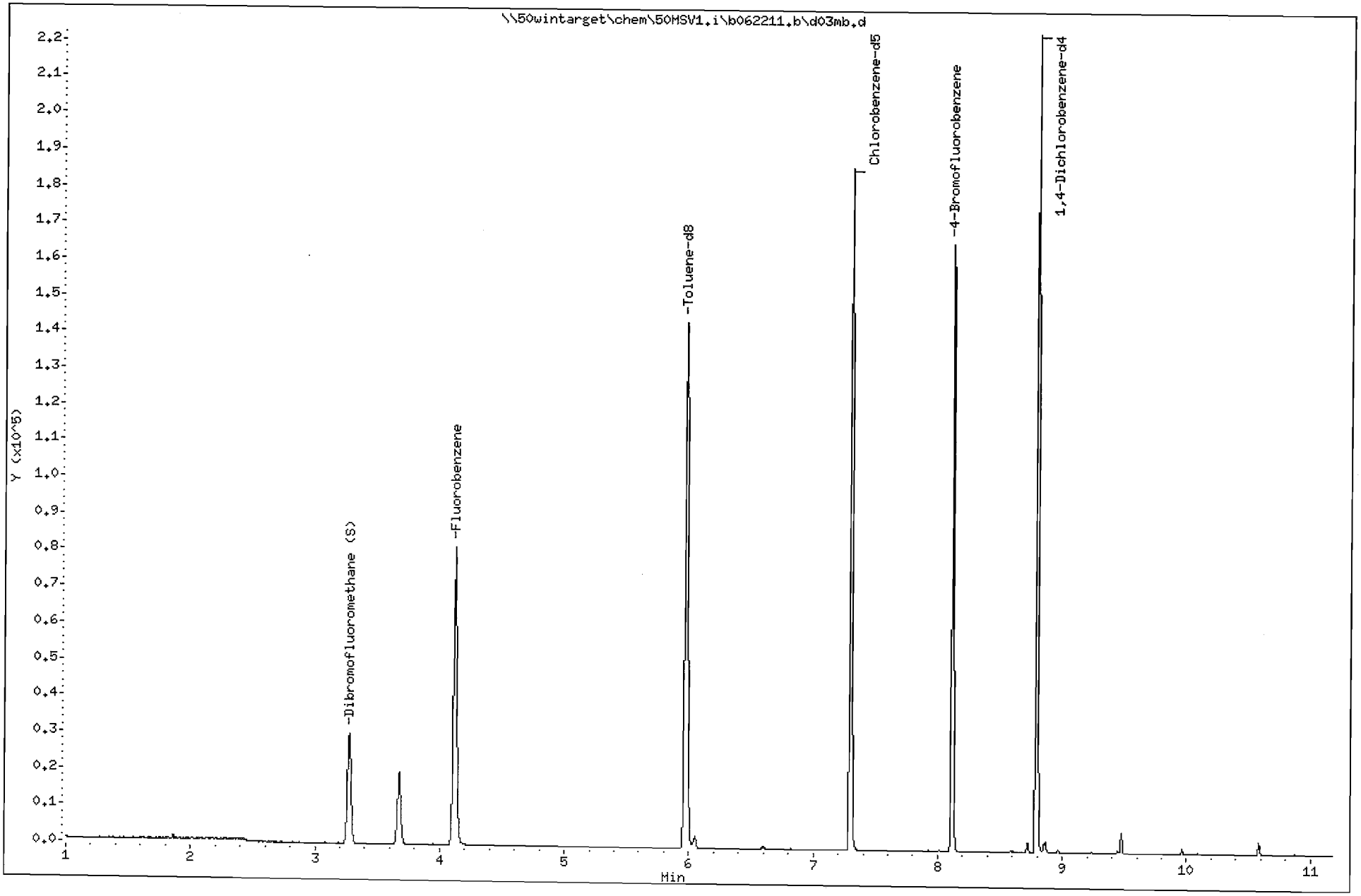
Client SDG: b062211.b
Client Smp ID: mb
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
	2,methyl-naphthalene	1.80	
1868-53-7	Dibromofluoromethane (S)	49.2	
2037-26-5	Toluene-d8	51.9	
460-00-4	4-Bromofluorobenzene	51.1	

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d03mb.d
Date : 23-JUN-2011 01:54
Client ID: mb
Sample Info: mb
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d03mb.d

Date : 23-JUN-2011 01:54

Client ID: mb

Instrument: 50MSV1.i

Sample Info: mb

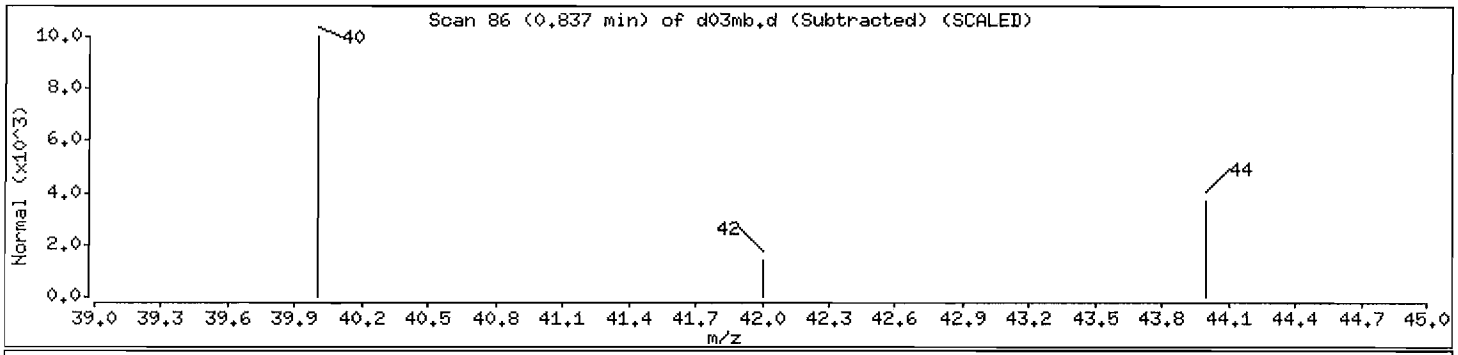
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical®
www.pacelabs.com

VOA 8260B
GC/MS Volatiles

Section 6: Client Sample Data

**** Client Sample Raw Data***
**** Dilutions or Reruns of Client Samples***
(Sample data should be in numerical order by Lab Number)

Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062211.b\d09.d
Lab Smp Id: 5050010001 Client Smp ID: 5050010001
Inj Date : 23-JUN-2011 05:24
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5050010001
Misc Info : 33539
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Meth Date : 28-Jun-2011 16:55 rwrede Quant Type: ISTD
Cal Date : 20-JUN-2011 19:02 Cal File: b08.d
Als bottle: 62
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
31 Chloroform	83	3.103	3.102	(0.753)	9998	10.0889	10.1
$ 32 Dibromofluoromethane (S)	113	3.276	3.269	(0.795)	19941	50.4692	50.5
* 40 Fluorobenzene	96	4.123	4.122	(1.000)	87890	50.0000	
$ 49 Toluene-d8	98	5.980	5.978	(0.819)	87469	54.2813	54.3
* 59 Chlorobenzene-d5	117	7.298	7.302	(1.000)	70755	50.0000	
$ 70 4-Bromofluorobenzene	95	8.114	8.112	(1.112)	36937	56.3505	56.4
* 82 1,4-Dichlorobenzene-d4	152	8.794	8.792	(1.000)	36943	50.0000	

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d09.d
Lab Smp Id: 5050010001
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Calibration Date: 23-JUN-2011
Calibration Time: 00:45
Client Smp ID: 5050010001
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	80205	40103	160410	87890	9.58
59 Chlorobenzene-d5	73321	36661	146642	70755	-3.50
82 1,4-Dichlorobenze	35100	17550	70200	36943	5.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.03
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.05
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.02

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5050010001
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Client SDG: b062211.b
Fraction: VOA
Client Smp ID: 5050010001
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	50.5	100.94	82-122
$ 49 Toluene-d8	50.0	54.3	108.56	80-120
$ 70 4-Bromofluorobenze	50.0	56.4	112.70	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

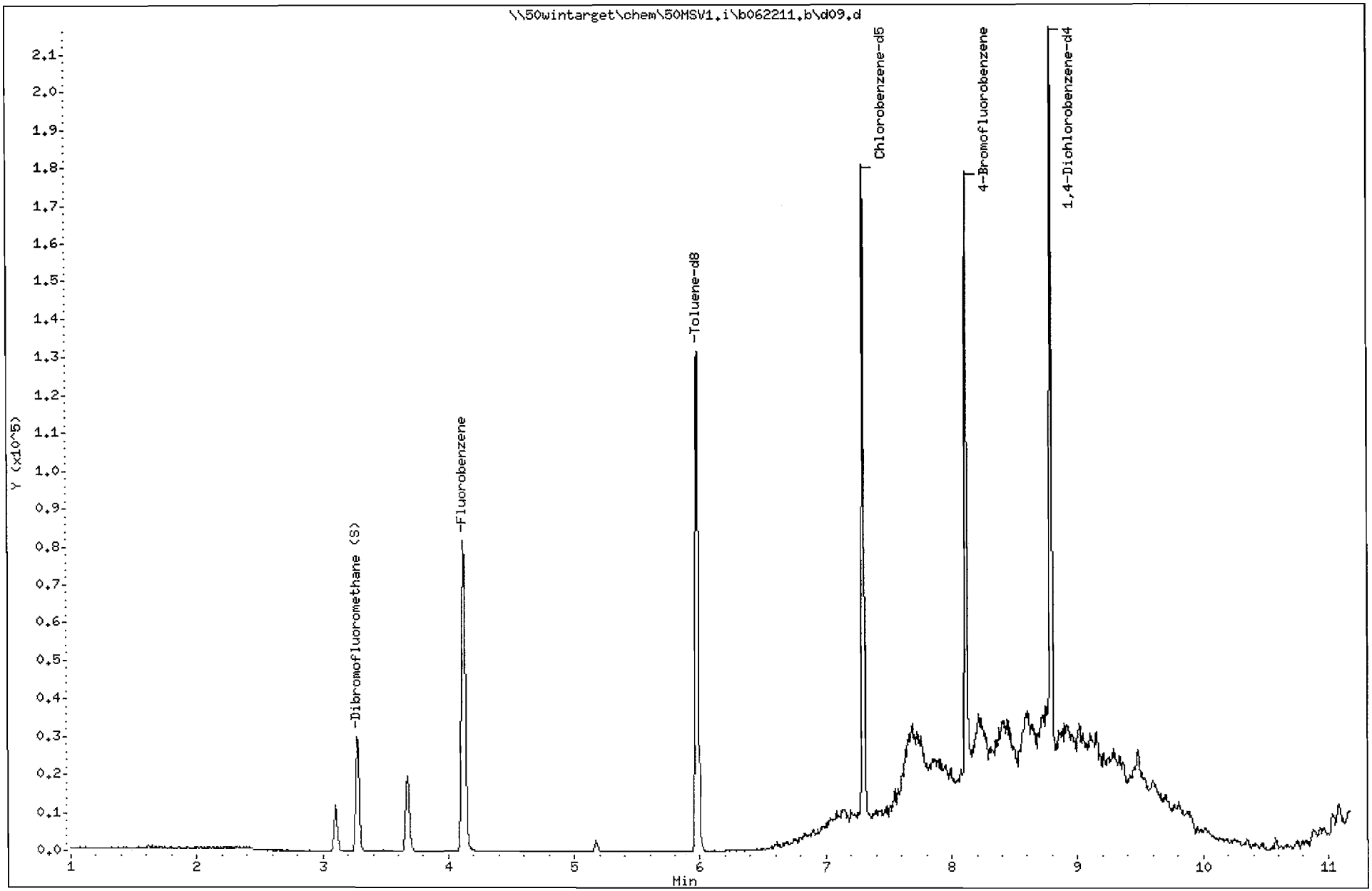
Client Name:
Lab Smp Id: 5050010001
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

Client SDG: b062211.b
Client Smp ID: 5050010001
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
67-66-3	Chloroform	10.1	
1868-53-7	Dibromofluoromethane (S)	50.5	
2037-26-5	Toluene-d8	54.3	
460-00-4	4-Bromofluorobenzene	56.4	

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d09.d
Date : 23-JUN-2011 05:24
Client ID: 5050010001
Sample Info: 5050010001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i
Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d09.d

Date : 23-JUN-2011 05:24

Client ID: 5050010001

Instrument: 50MSV1.i

Sample Info: 5050010001

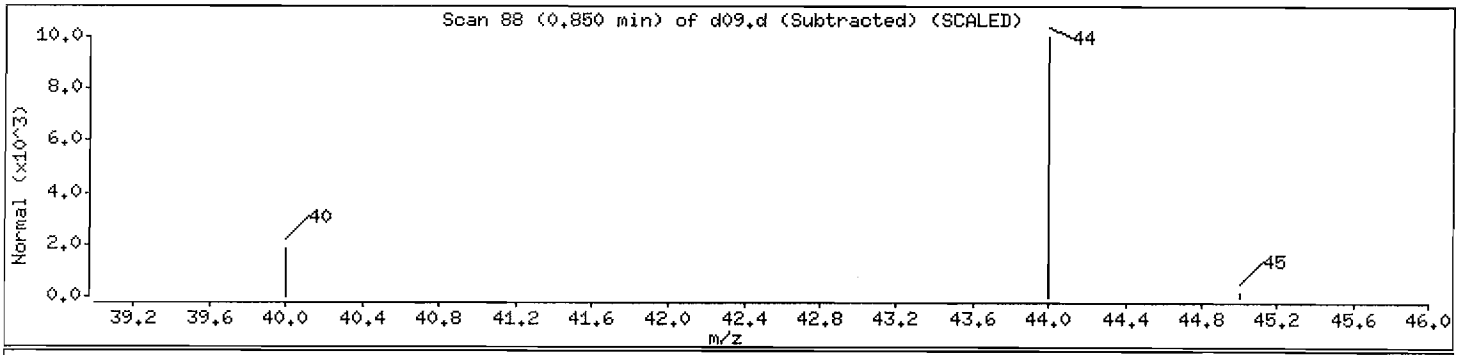
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
UNKNOWN						



Pace Analytical Services, Inc.

Data file : \\50wintarget\chem\50MSV1.i\b062211.b\d12.d
Lab Smp Id: 5050010002 Client Smp ID: 5050010002
Inj Date : 23-JUN-2011 07:07
Operator : rsw Inst ID: 50MSV1.i
Smp Info : 5050010002
Misc Info : 33539
Comment :
Method : \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Meth Date : 28-Jun-2011 16:55 rwrede Quant Type: ISTD
Cal Date : 20-JUN-2011 19:02 Cal File: b08.d
Als bottle: 68
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
25 1,2-Dichloroethene (cis)	96	2.794	2.788	(0.678)	3893	6.73287	6.73
31 Chloroform	83	3.103	3.102	(0.753)	3708	3.68155	3.68
$ 32 Dibromofluoromethane (S)	113	3.275	3.269	(0.794)	19727	49.1250	49.1
* 40 Fluorobenzene	96	4.123	4.122	(1.000)	89326	50.0000	
41 Trichloroethene	95	4.583	4.577	(1.112)	2916	4.39700	4.40
$ 49 Toluene-d8	98	5.979	5.978	(0.819)	86697	48.5539	48.6
* 59 Chlorobenzene-d5	117	7.297	7.302	(1.000)	78403	50.0000	
$ 70 4-Bromofluorobenzene	95	8.113	8.112	(1.112)	37593	51.7568	51.8
79 1,2,4-Trimethylbenzene	105	8.600	8.599	(0.978)	1040	0.35064	0.351
* 82 1,4-Dichlorobenzene-d4	152	8.793	8.792	(1.000)	41823	50.0000	
92 2,methyl-naphthalene	142	10.582	10.581	(1.203)	1940	1.87041	1.87

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 50MSV1.i
Lab File ID: d12.d
Lab Smp Id: 5050010002
Analysis Type: VOA
Quant Type: ISTD
Operator: rsw
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Calibration Date: 23-JUN-2011
Calibration Time: 00:45
Client Smp ID: 5050010002
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	80205	40103	160410	89326	11.37
59 Chlorobenzene-d5	73321	36661	146642	78403	6.93
82 1,4-Dichlorobenze	35100	17550	70200	41823	19.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
40 Fluorobenzene	4.12	3.62	4.62	4.12	0.02
59 Chlorobenzene-d5	7.30	6.80	7.80	7.30	-0.06
82 1,4-Dichlorobenze	8.79	8.29	9.29	8.79	0.01

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

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 5050010002
Level: LOW
Data Type: MS DATA
SpikeList File: 8260lcs-w.spk
Sublist File: all.sub
Method File: \\50wintarget\chem\50MSV1.i\b062211.b\-b8260_a_b.m
Misc Info: 33539

Client SDG: b062211.b
Fraction: VOA
Client Smp ID: 5050010002
Operator: rsw
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb	CONC RECOVERED ppb	% RECOVERED	LIMITS
$ 32 Dibromofluorometha	50.0	49.1	98.25	82-122
$ 49 Toluene-d8	50.0	48.6	97.11	80-120
$ 70 4-Bromofluorobenze	50.0	51.8	103.51	73-120

Pace Analytical Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 5050010002
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: 33539

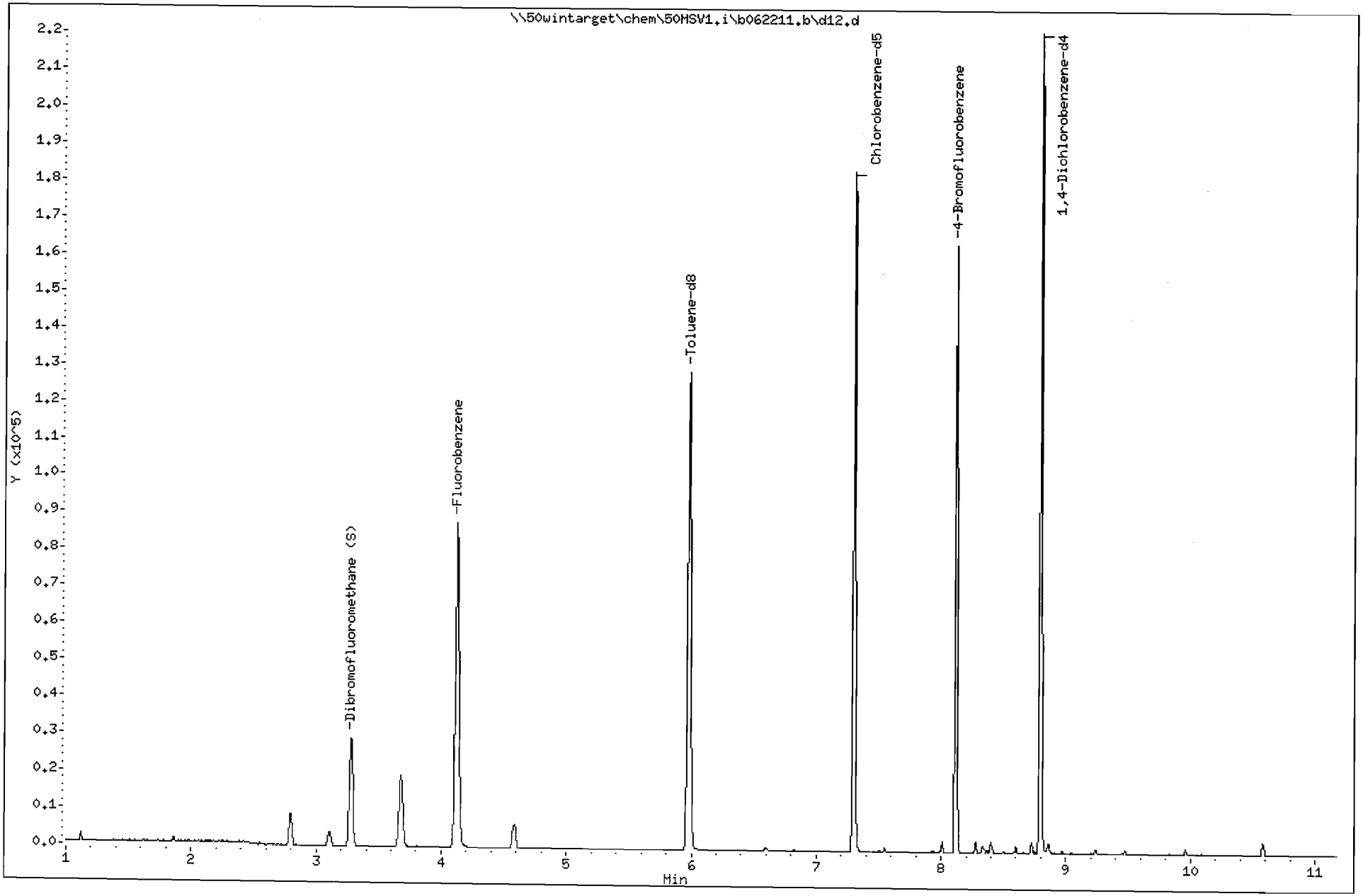
Client SDG: b062211.b
Client Smp ID: 5050010002
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rsw

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ppb	Q
156-59-2	1,2-Dichloroethene (cis)	6.73	
67-66-3	Chloroform	3.68	
79-01-6	Trichloroethene	4.40	
95-63-6	1,2,4-Trimethylbenzene	0.351	
	2,methyl-naphthalene	1.87	
1868-53-7	Dibromofluoromethane (S)	49.1	
2037-26-5	Toluene-d8	48.6	
460-00-4	4-Bromofluorobenzene	51.8	

Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d12.d
Date : 23-JUN-2011 07:07
Client ID: 5050010002
Sample Info: 5050010002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV1.i

Operator: rsw
Column diameter: 0.18



Data File: \\50wintarget\chem\50MSV1.i\b062211.b\d12.d

Date : 23-JUN-2011 07:07

Client ID: 5050010002

Instrument: 50MSV1.i

Sample Info: 5050010002

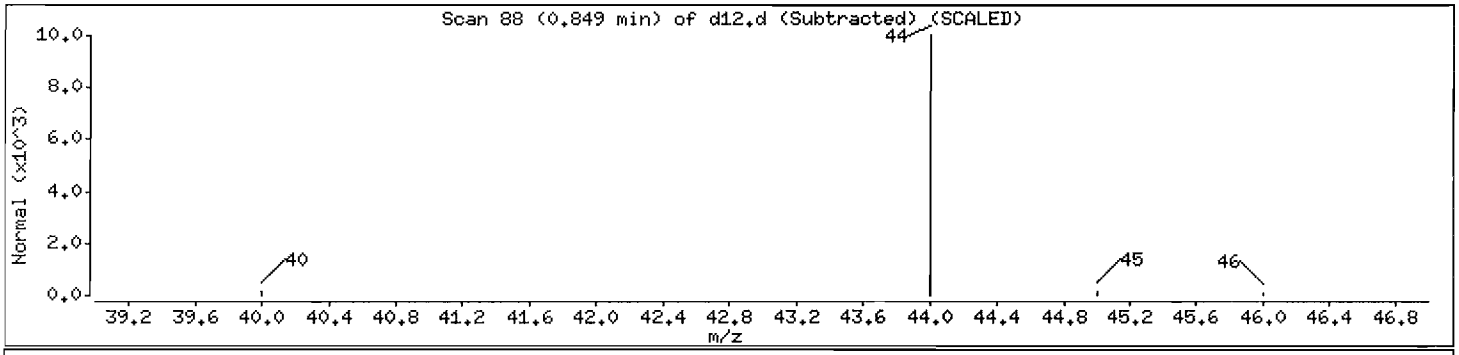
Purge Volume: 5.0

Operator: rsw

Column phase: DB-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



ARCADIS

Attachment C

Potentiometric Surface Maps

711 POTENTIOMETRIC SURFACE
1 FT CONTOUR INTERVAL

MW-0402 MONITORING WELL WITH FEBRUARY 2007 POTENTIOMETRIC SURFACE ELEVATION (FEET)

DESIGNATES PERCHED AREA

(SEE DRAWING 2 FOR LEGEND)

See Drawing 21 for contours of area including groundwater recovery wells

N

240 0 240

Approximate Scale In Feet

© 2007 ARCADIS G&M, Inc.

Area Manager	S. GLENN
Project Director	J. COSGROVE
Task Manager	S. FISHER
Technical Review	T. HUBBARD

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

ALLISON TRANSMISSION
RFI DATA REPORT
(UPDATED JULY 2007)

LOCALIZED PERCHED GROUNDWATER ELEVATIONS
FEBRUARY 2007

SPEEDWAY, INDIANA

Project Number	IN000473.0017
Date	7/6/2007
Drawing	20

Area Manager	S. GLENN
Project Director	J. COSGROVE
Task Manager	S. FISHER
Technical Review	B. SUTTON

NOTE: See legend for drawing information.

© 2008 ARCADIS G&M, Inc.

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

ALLISON TRANSMISSION
RCRA FACILITY INVESTIGATION REPORT

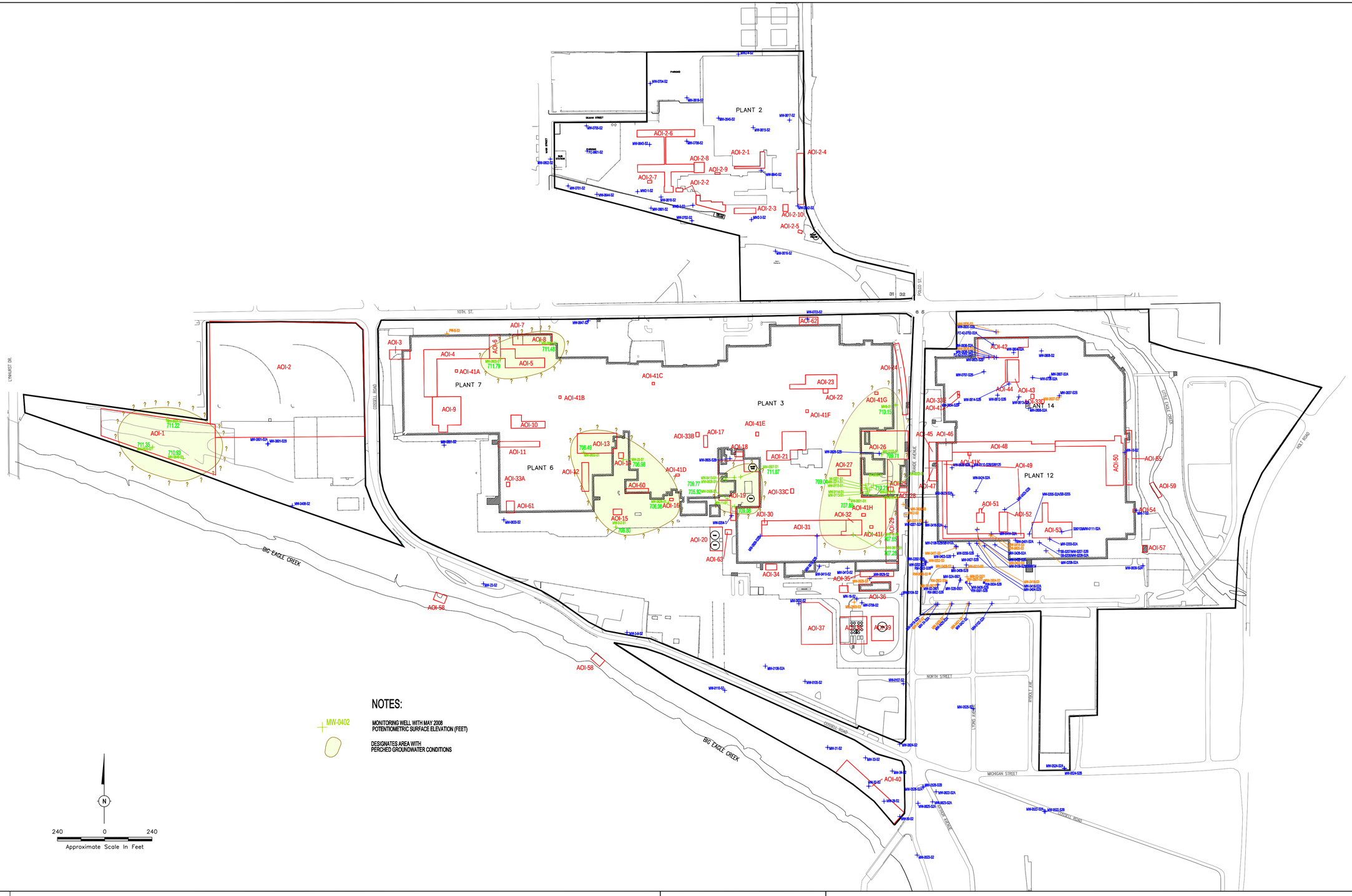
LOCALIZED PERCHED GROUNDWATER ELEVATIONS
OCTOBER 2007

SPEEDWAY, INDIANA

Project Number	IN000473.0017
Date	2/22/2008
Figure	3.4.17

RESUBMITTED FEBRUARY 2009

RESUBMITTED FEBRUARY 2009



Area Manager	S. GLENN
Project Director	J. COSGROVE
Task Manager	S. FISHER
Technical Review	HGL

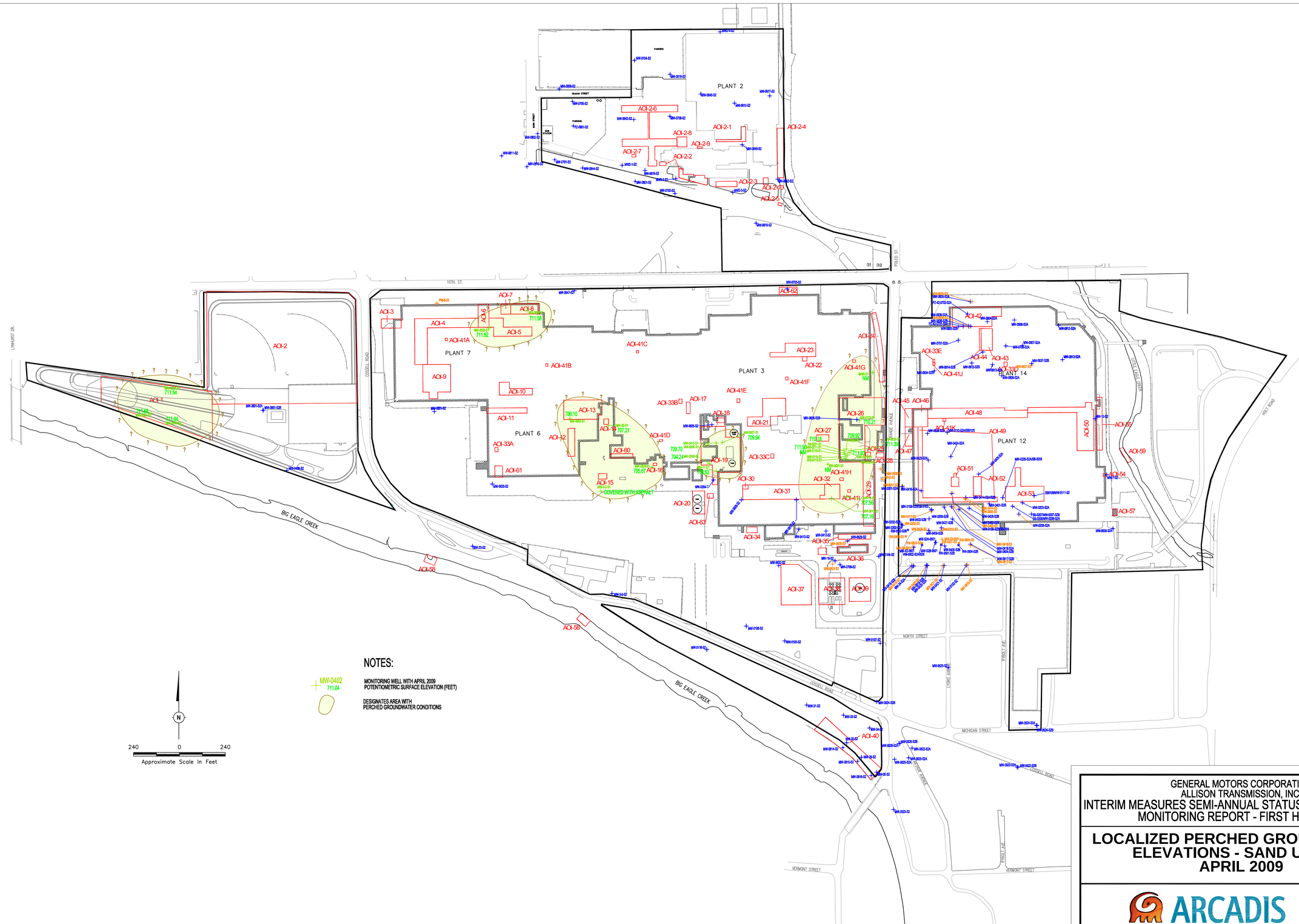
© 2009 ARCADIS G&M, Inc.

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

ALLISON TRANSMISSION
ADDITIONAL SAMPLING DATA REPORT
LOCALIZED PERCHED GROUNDWATER ELEVATIONS
MAY 2008

SPEEDWAY, INDIANA

Project Number	IN000473.0017
Date	9/11/08
Drawing	8



GENERAL MOTORS CORPORATION
ALLISON TRANSMISSION, INC.
INTERIM MEASURES SEMI-ANNUAL STATUS & GROUNDWATER MONITORING REPORT - FIRST HALF 2009

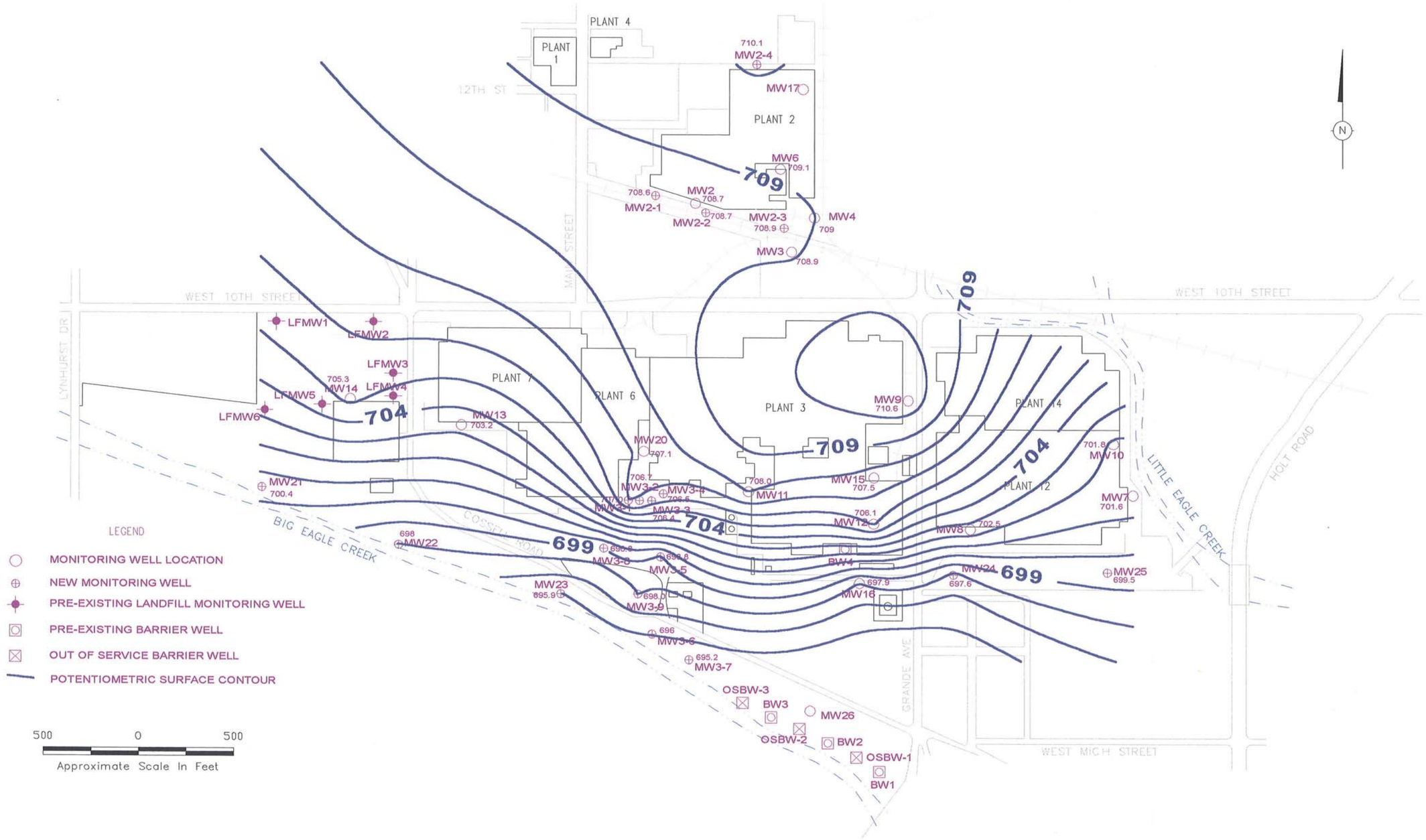
LOCALIZED PERCHED GROUNDWATER ELEVATIONS - SAND UNIT S1 APRIL 2009

ARCADIS

DRAWING
3

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(On)=*;OFF=*REF*
G:\APROJECT\ALLISTRN\IN047301\9-QM\Remediation Status Report\First Half 2009\Figures\pot MAPS\Copy of Perched area_5-2008_090623.dwg LAYOUT:3 SAVED: 7/13/2009 2:24 PM ACADVER: 17.0S (LMS TECH) PAGESETUP:---- PLOTSTYLETABLE:---- PLOTTED: 10/1/2009 12:39 PM BY: FISHER, SARAH

XREFS: IN000473-BASE_J8880Logo
IMAGES: 00473X02 Color Logo.JPG
PROJECTNAME: ----

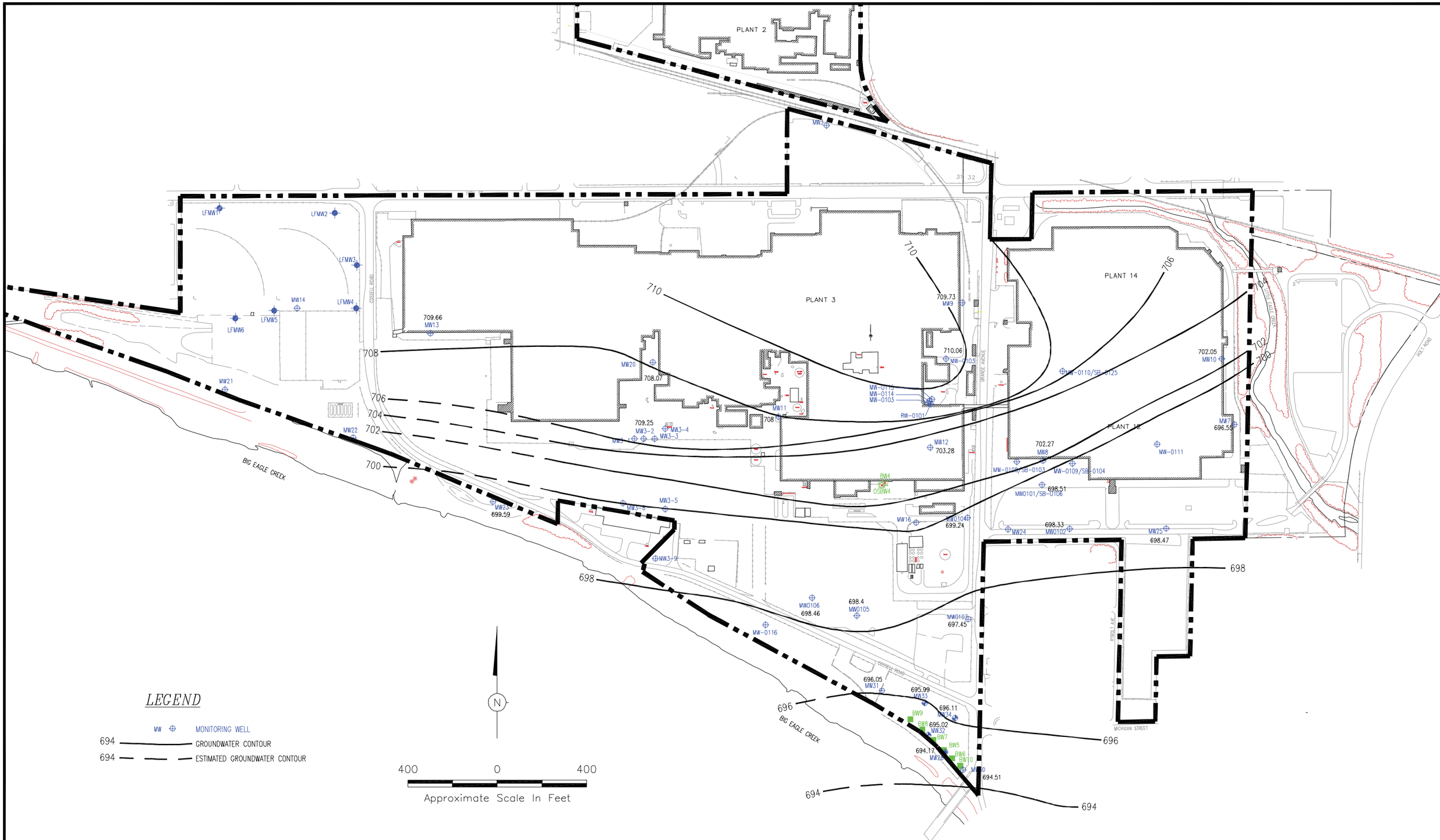


ARCADIS
GERAGHTY & MILLER

Well Location & Potentiometric Surface Map

Allison Transmission Division, General Motors Corp
Speedway, Indiana

FIGURE
2



NO.	DATE	REVISION DESCRIPTION	BY / CKD

ARCADIS G&M

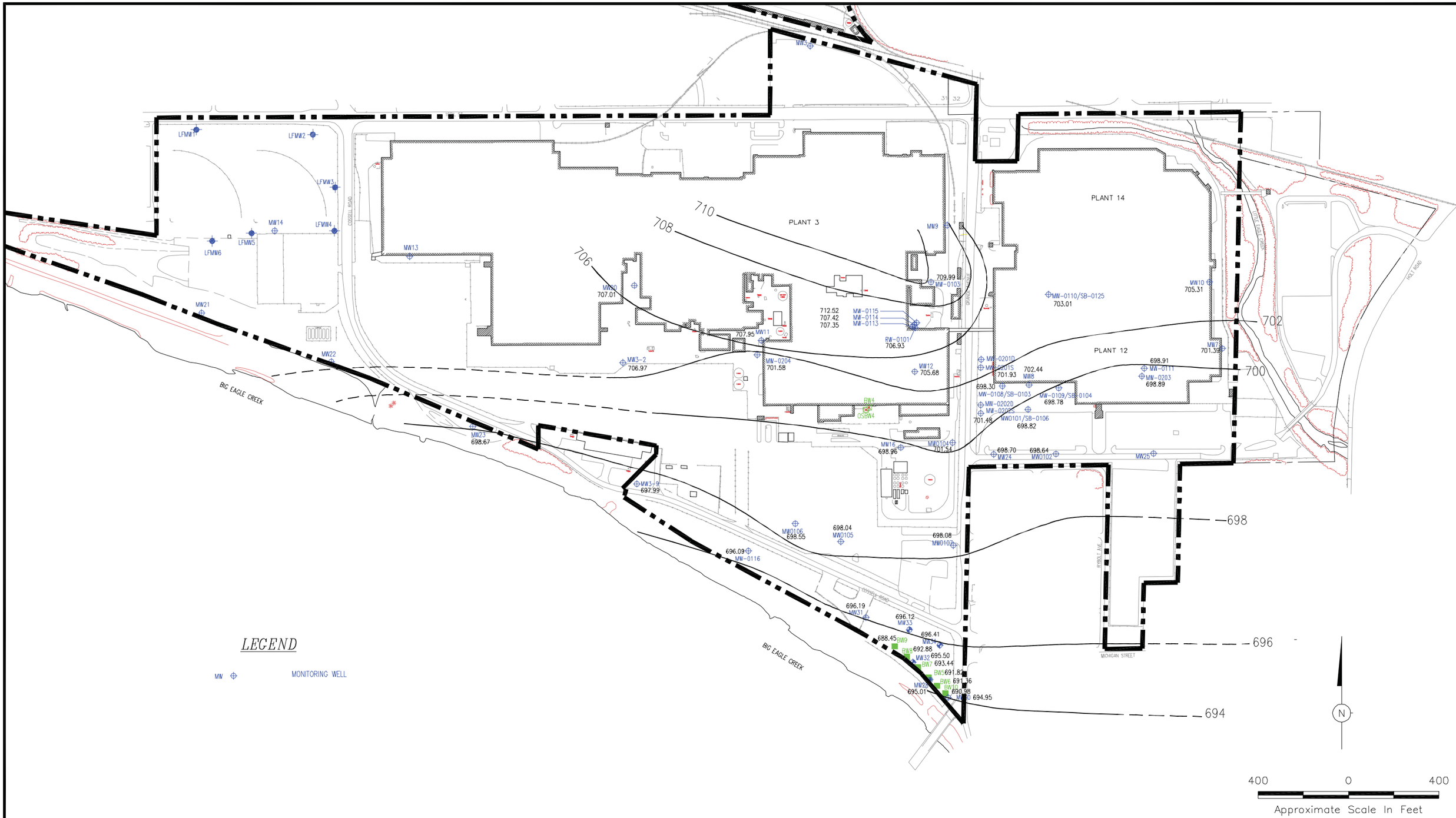
ALLISON TRANSMISSION DIVISION
GENERAL MOTORS CORP.

SPEEDWAY, INDIANA

POTENTIOMETRIC SURFACE MAP
(DECEMBER 2001)

DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
ML	2/02	RW	
		CAD FILE NUMBER IN000473.0009	CHECKED
		PROJECT NUMBER IN000473.0009	DRAWING NUMBER 12

copyright © 20 01



NO.	DATE	REVISION DESCRIPTION	BY / CKD

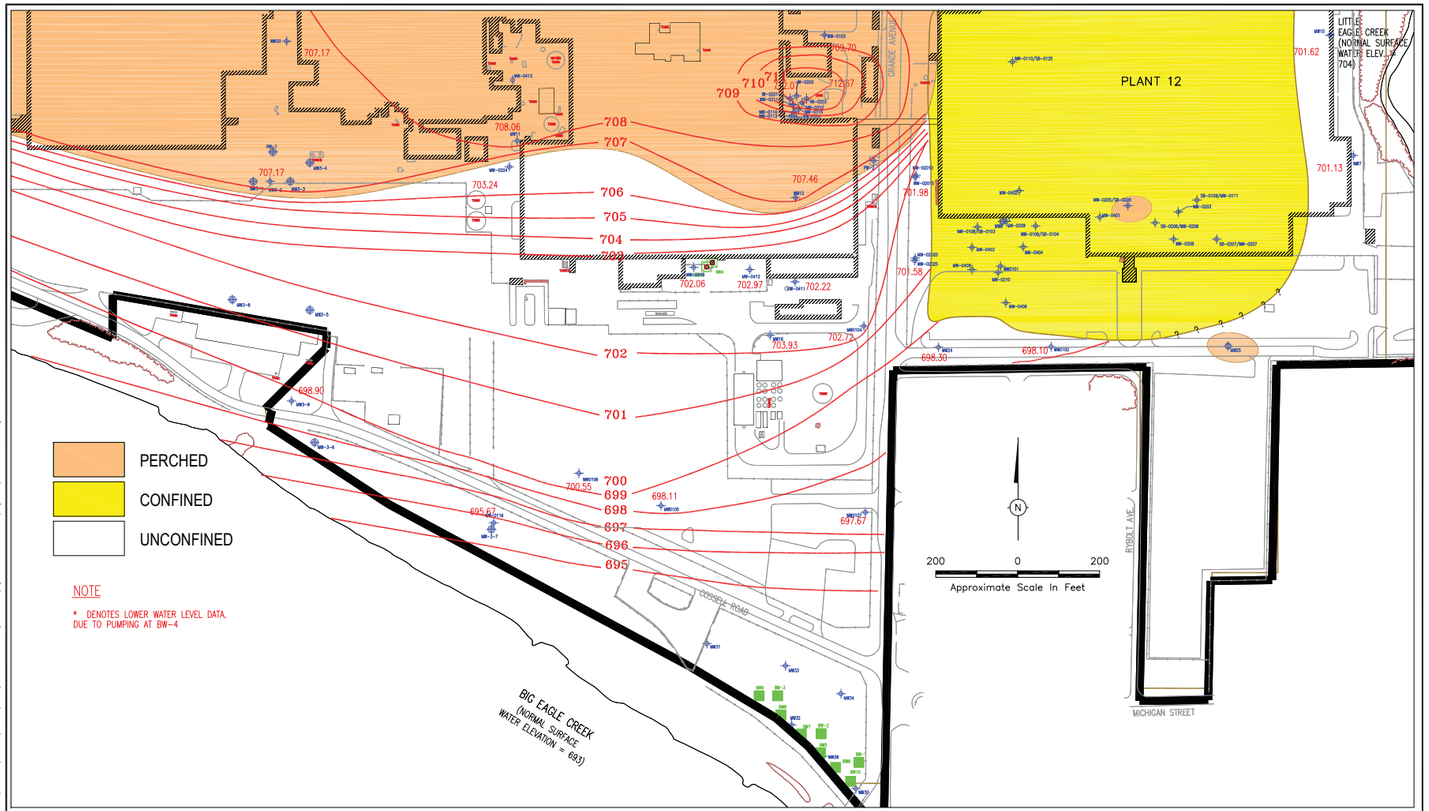
ARCADIS G&M

ALLISON TRANSMISSION DIVISION
GENERAL MOTORS CORP.

SPEEDWAY, INDIANA

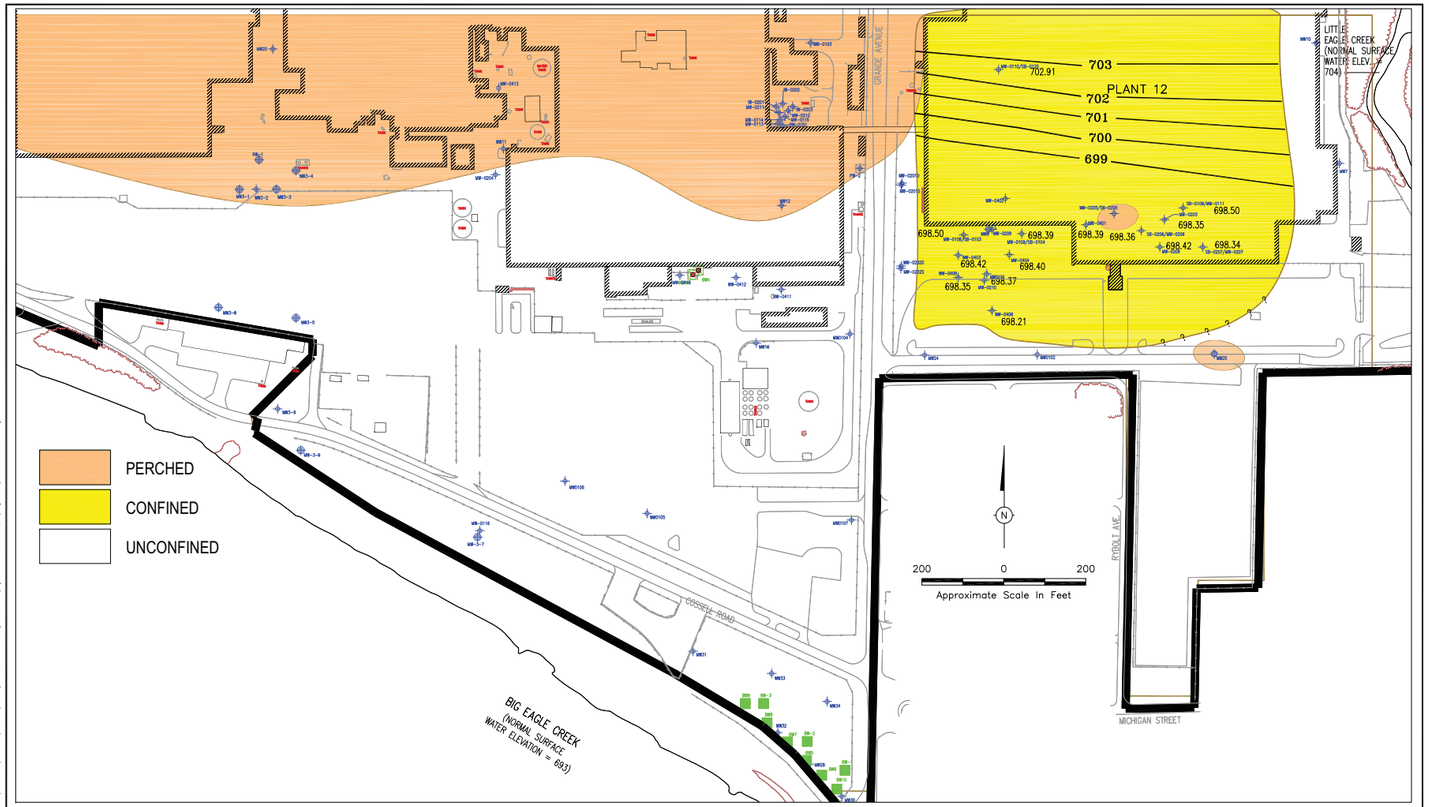
DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
ML	5/02	RW	
POTENTIOMETRIC SURFACE MAP (MARCH 2002)		CAD FILE NUMBER IN000473.0009	CHECKED
		PROJECT NUMBER IN000473.0009	DRAWING NUMBER 13

copyright © 20 01



Area Manager: Mark Flavin Project Director: Robert Walker Task Manager: Mark Fisherfeller Technical Reviewer: Sarah Fisher	ARCADIS 251 East Ohio Street Suite 500 Indianapolis, Indiana 46204 Tel: 317.231.6500 Fax: 317.231.6514 www.arcadis-us.com	GENERAL MOTORS - ALLISON TRANSMISSION REMEDIATION STATUS REPORT (JANUARY 2004 THROUGH JUNE 2004) POTENTIOMETRIC SURFACE OF PERCHED AND UNCONFINED UNITS MAY 2004 SPEEDWAY, INDIANA	Project Number: IN000473.0014 Drawing Date: 16 July 2004 Figure: 7

©2004 ARCADIS G&M, Inc.



Area Manager	Mark Flavin
Project Director	Robert Walker
Task Manager	Mark Fisherfeller
Technical Reviewer	Sarah Fisher

ARCADIS
251 East Ohio Street
Suite 500
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

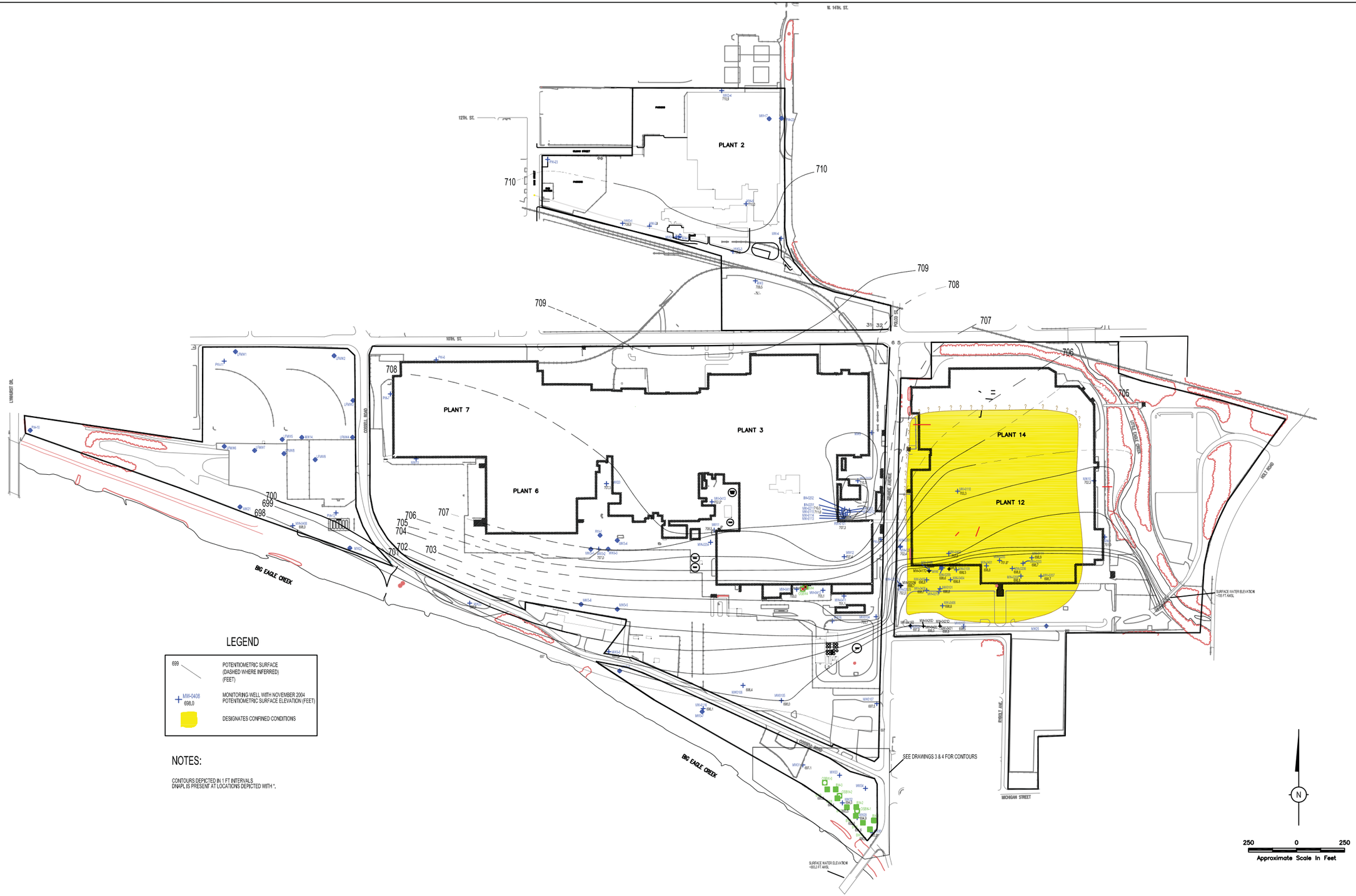
GENERAL MOTORS - ALLISON TRANSMISSION
REMEDIATION STATUS REPORT (JANUARY 2004 THROUGH JUNE 2004)

POTENTIOMETRIC SURFACE OF CONFINED UNIT (MAY 2004)

SPEEDWAY, INDIANA

Project Number	IN000473.0014
Drawing Date	16 July 2004
Figure	8

©2004 ARCADIS G&M, Inc.



© 2004 ARCADIS G&M, Inc.

Area Manager	M. FLAVIN
Project Director	R. WALKER
Task Manager	M. FISHERKELLER
Technical Review	S. FISHER

DRAFT

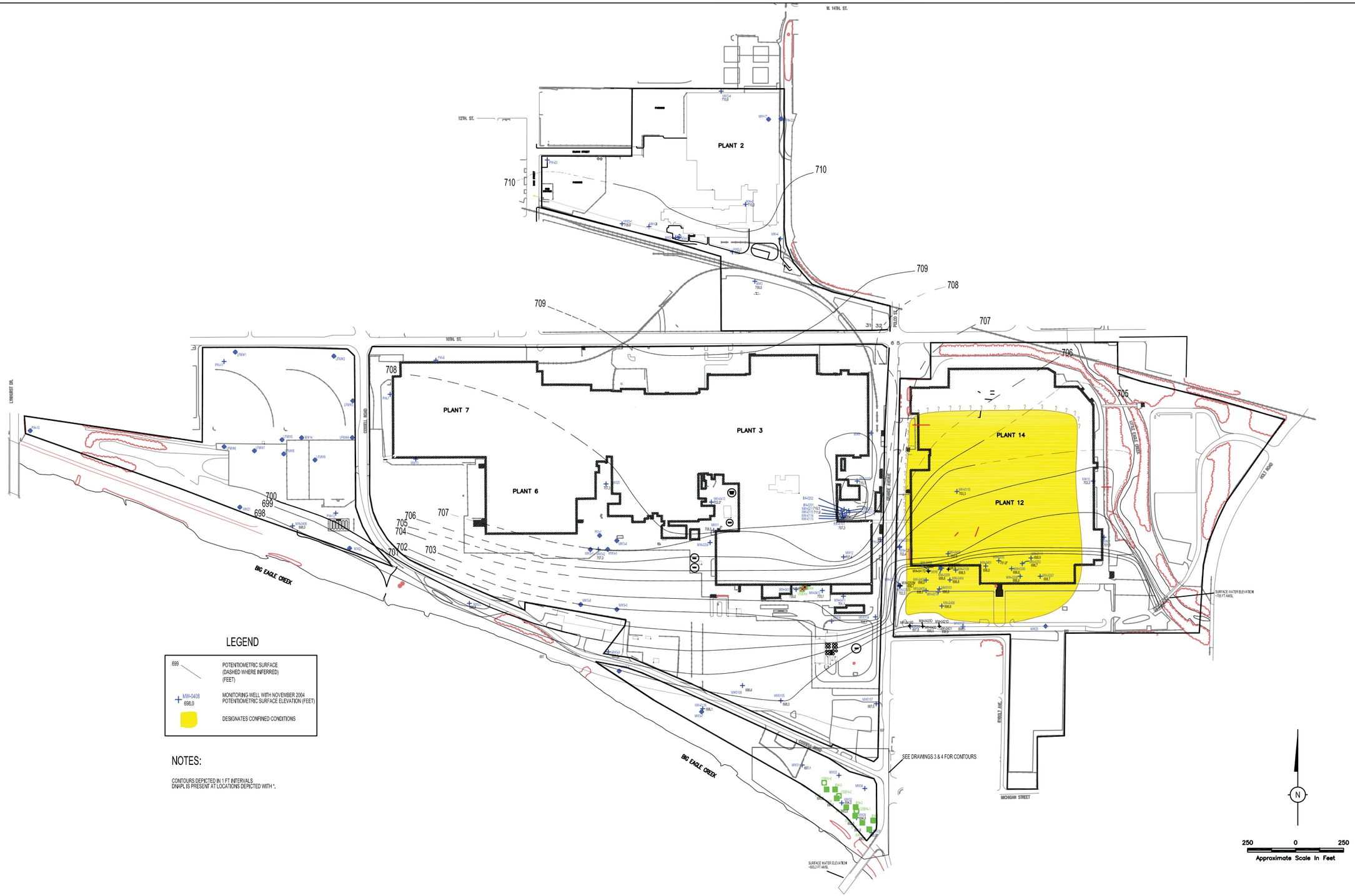
ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

GENERAL MOTORS - ALLISON TRANSMISSION
REMEDIATION STATUS REPORT (JULY 2004 THROUGH DECEMBER 2004)

POTENTIOMETRIC SURFACE OF UPPERMOST SAND UNITS
NOVEMBER 2004

SPEEDWAY, INDIANA

Project Number	IN000473.0016
Date	7 JANUARY 2005
Drawing	5



© 2004 ARCADIS G&M, Inc.

Area Manager	M. FLAVIN
Project Director	R. WALKER
Task Manager	M. FISHERKELLER
Technical Review	S. FISHER

DRAFT

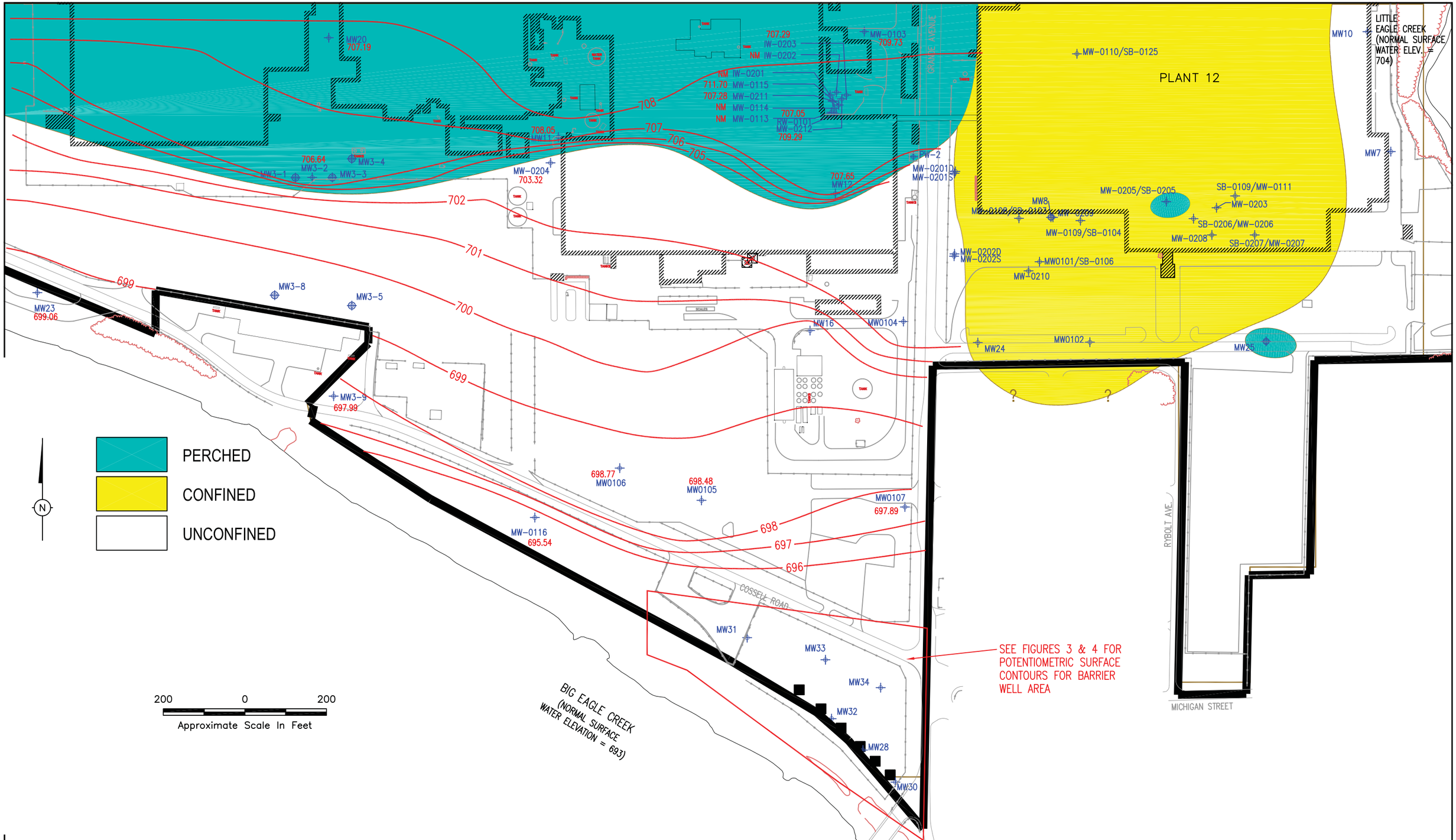
ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

GENERAL MOTORS - ALLISON TRANSMISSION
REMEDIATION STATUS REPORT (JULY 2004 THROUGH DECEMBER 2004)

POTENTIOMETRIC SURFACE OF UPPERMOST SAND UNITS
NOVEMBER 2004

SPEEDWAY, INDIANA

Project Number	IN000473.0016
Date	7 JANUARY 2005
Drawing	5

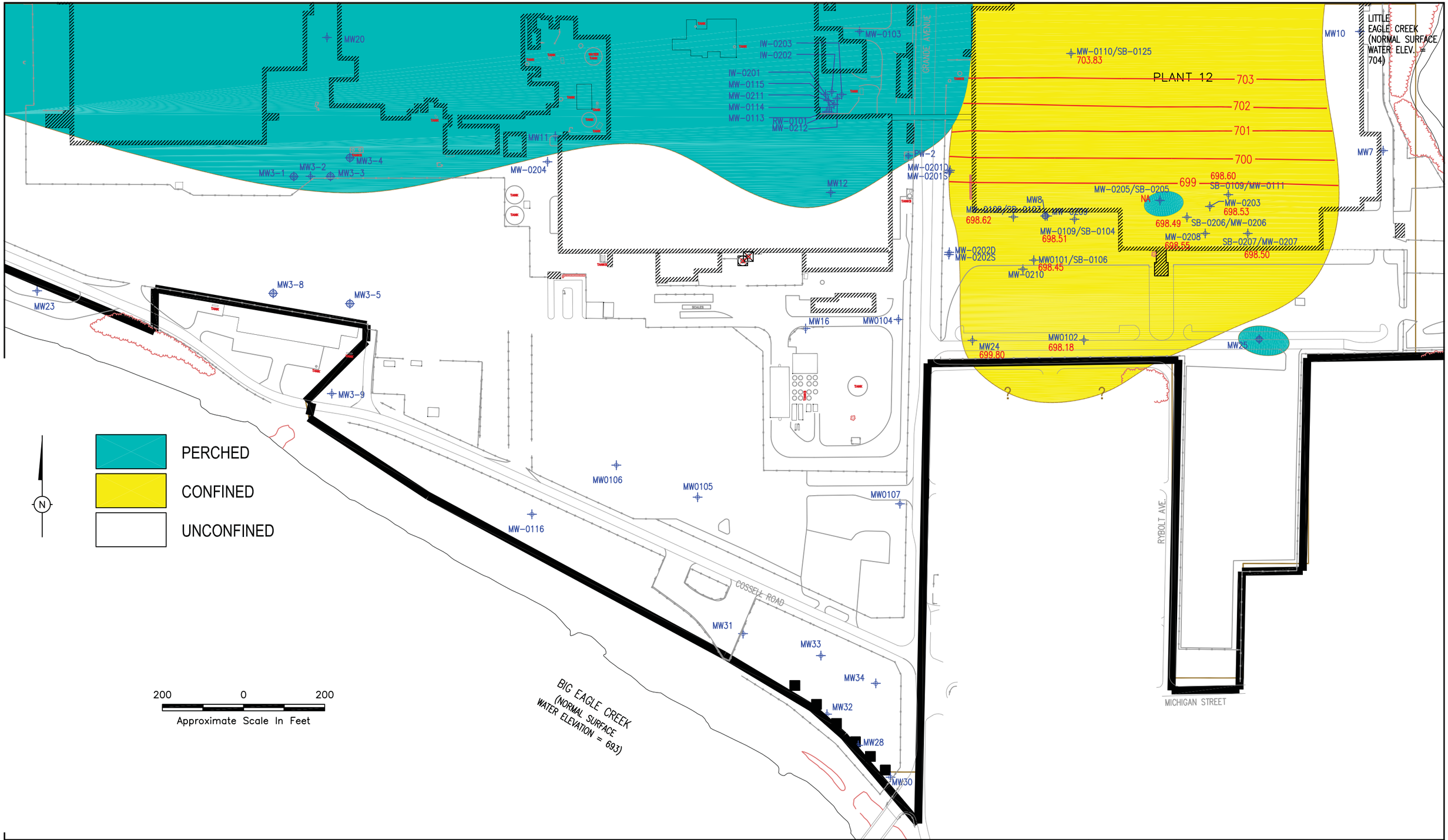


copyright © 2003

ARCADIS

ALLISON TRANSMISSION
4700 WEST 10TH ST.
SPEEDWAY, IN

DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
ML	1/04		
PERCHED AND UNCONFINED POTENTIOMETRIC SURFACE		CAD FILE NUMBER IN000473-1003	CHECKED
		PROJECT NUMBER IN000473	DRAWING NUMBER 7



copyright © 2003

ARCADIS

ALLISON TRANSMISSION
4700 WEST 10TH ST.
SPEEDWAY, IN

DRAWN	DATE	PROJECT MANAGER	DEPARTMENT MANAGER
ML	1/04		
CONFINED POTENTIOMETRIC SURFACE		CAD FILE NUMBER IN000473-0104	CHECKED
		PROJECT NUMBER IN000473	DRAWING NUMBER 8

LEGEND

699	POTENTIOMETRIC SURFACE (DASHED WHERE INFERRED) (FEET)
MW-0408 698.0	MONITORING WELL WITH NOVEMBER 2004 POTENTIOMETRIC SURFACE ELEVATION (FEET)
	DESIGNATES CONFINED CONDITIONS

NOTES:

CONTOURS DEPICTED IN 1 FT INTERVALS
NAPL IS PRESENT AT LOCATIONS DEPICTED WITH *.

© 2004 ARCADIS G&M, Inc.

Area Manager	M. FLAVIN
Project Director	R. WALKER
Task Manager	M. FISHERKELLER
Technical Review	S. FISHER

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

GM POWERTRAIN - ALLISON TRANSMISSION
INTERIM MEASURES SEMI-ANNUAL STATUS

POTENTIOMETRIC SURFACE OF UPPERMOST SAND UNITS
JUNE 2005

SPEEDWAY, INDIANA

Project Number	IN000473.0016
Date	7 JANUARY 2005
Drawing	5

Current Plotstyle : ByColor
Layout Tab: P01.

Date\Time : Thu, 12 Jan 2006 - 9:32am
Path\Name : C:\AC\ARCADIS\2005\ATD 0705\IN000473-CONTOUR-1205.dwg

Acad Version : R16.2s (LMS Tech)
User Name : MIKE LEE

© 2006 ARCADIS G&M, Inc.

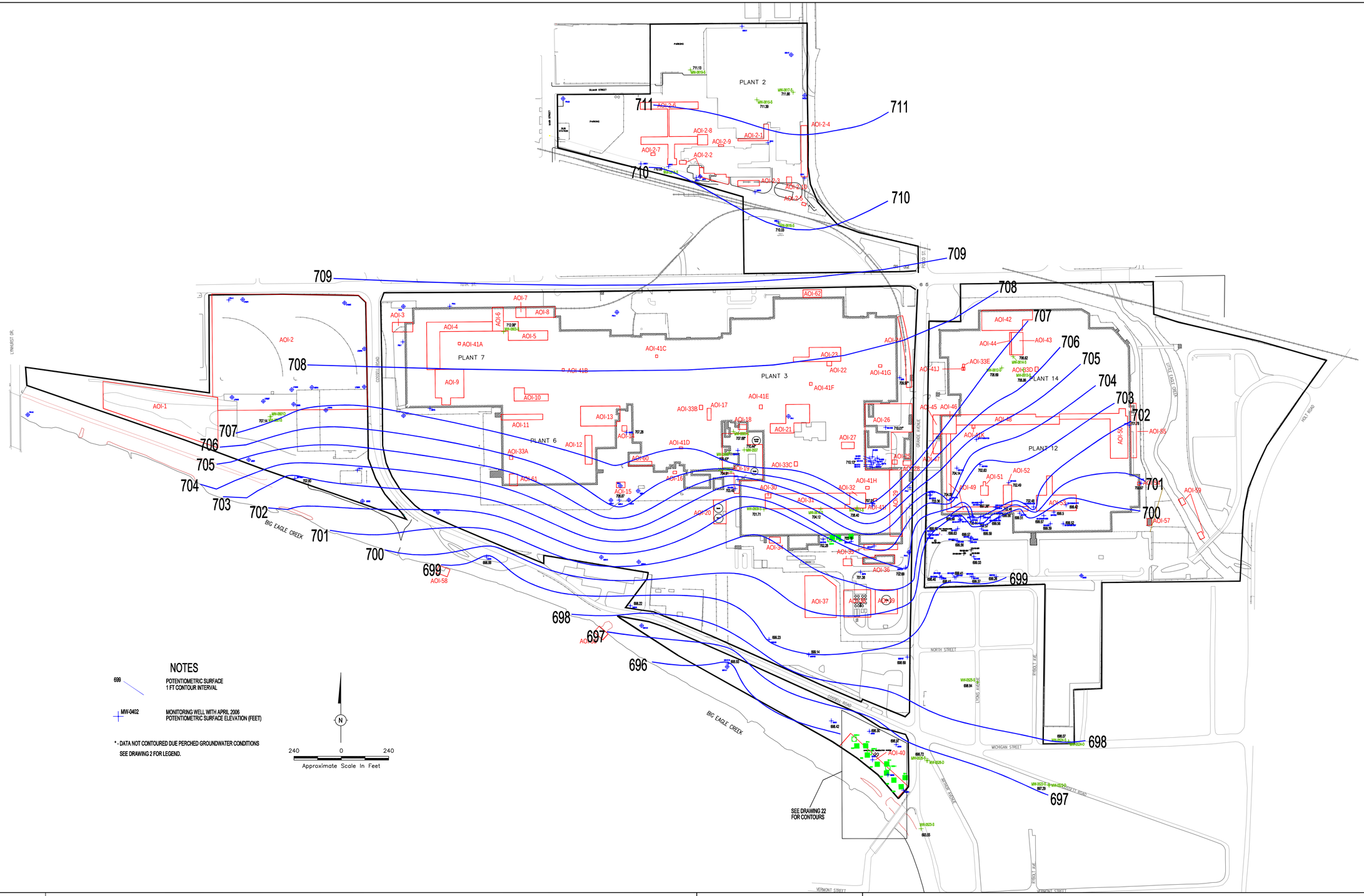
Area Manager	S. GLENN
Project Director	S. FISHER
Task Manager	M. FISHERKELLER
Technical Review	J. COSGROVE

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

GM POWERTRAIN - ALLISON TRANSMISSION
INTERIM MEASURES SEMI-ANNUAL STATUS

POTENTIOMETRIC SURFACE OF UPPERMOST SAND UNITS
DECEMBER, 2005
SPEEDWAY, INDIANA

Project Number	IN000473
Date	29 DECEMBER 2005
Drawing	6



Area Manager	S. GLENN
Project Director	J. COSGROVE
Task Manager	S. FISHER
Technical Review	M. FISHERKELLER

© 2004 ARCADIS G&M, Inc.

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

GENERAL MOTORS POWERTRAIN - ALLISON TRANSMISSION
RFI DATA REPORT

POTENTIOMETRIC SURFACE OF UPPERMOST SAND UNITS- S1 and S2
APRIL 2006

SPEEDWAY, INDIANA

Project Number	IN000473.0017
Date	9/27/2006
DRAWING	19

Area Manager	S. GLENN
Project Director	J. COSGROVE
Task Manager	S. FISHER
Technical Review	T. HUBBARD

© 2007 ARCADIS G&M, Inc.

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

ALLISON TRANSMISSION
RFI DATA REPORT
(UPDATED JULY 2007)

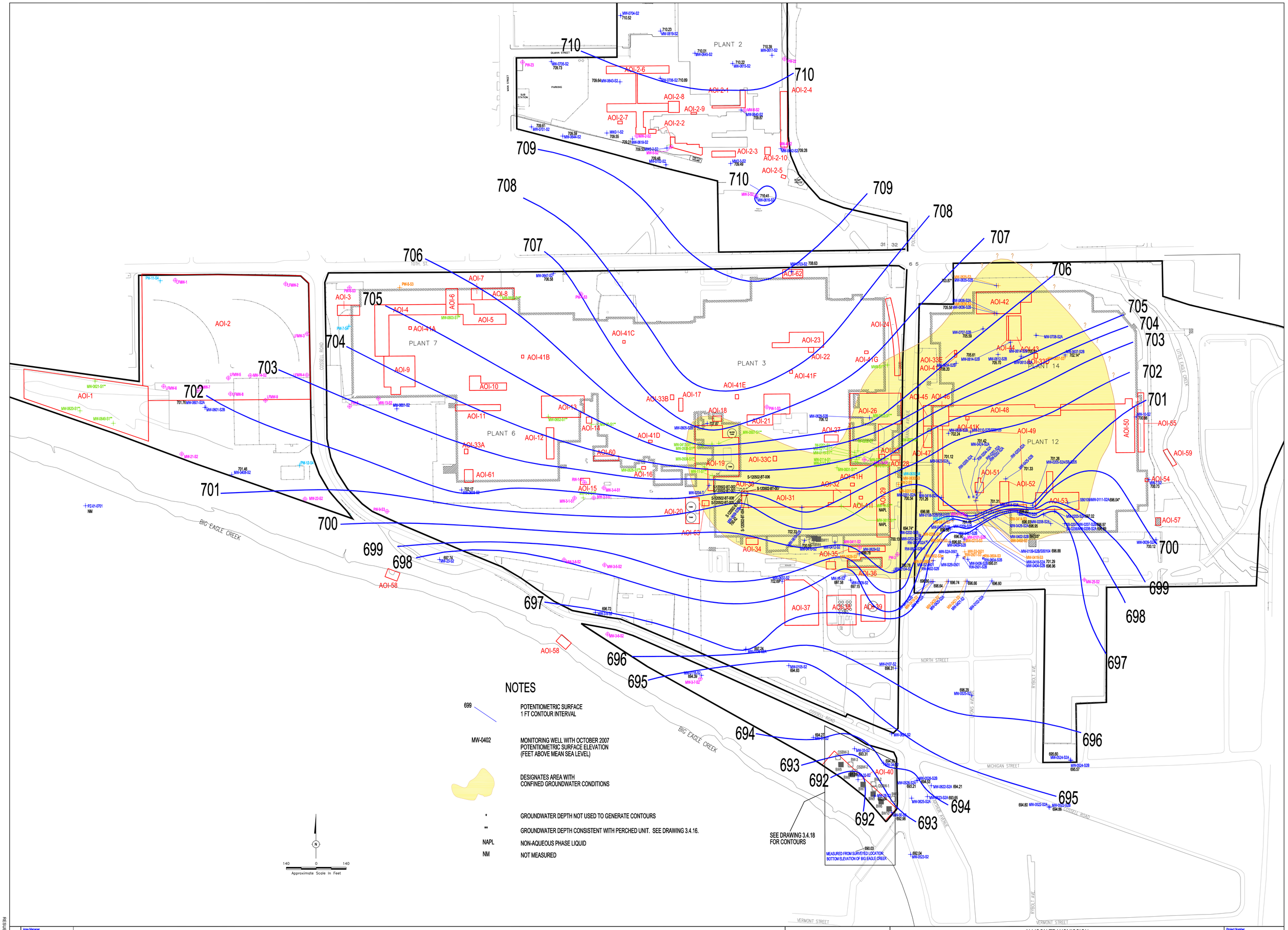
GENERALIZED SITEWIDE POTENTIOMETRIC SURFACE
FEBRUARY 2007

SPEEDWAY, INDIANA

Project Number IN000473.0017

Date 7/6/2007

Drawing 19



Area Manager	S. GLENN
Project Director	J. COSGROVE
Task Manager	S. FISHER
Technical Review	B. SUTTON

NOTE: See legend for drawing information.

© 2008 ARCADIS

ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

ALLISON TRANSMISSION
RCRA FACILITY INVESTIGATION REPORT

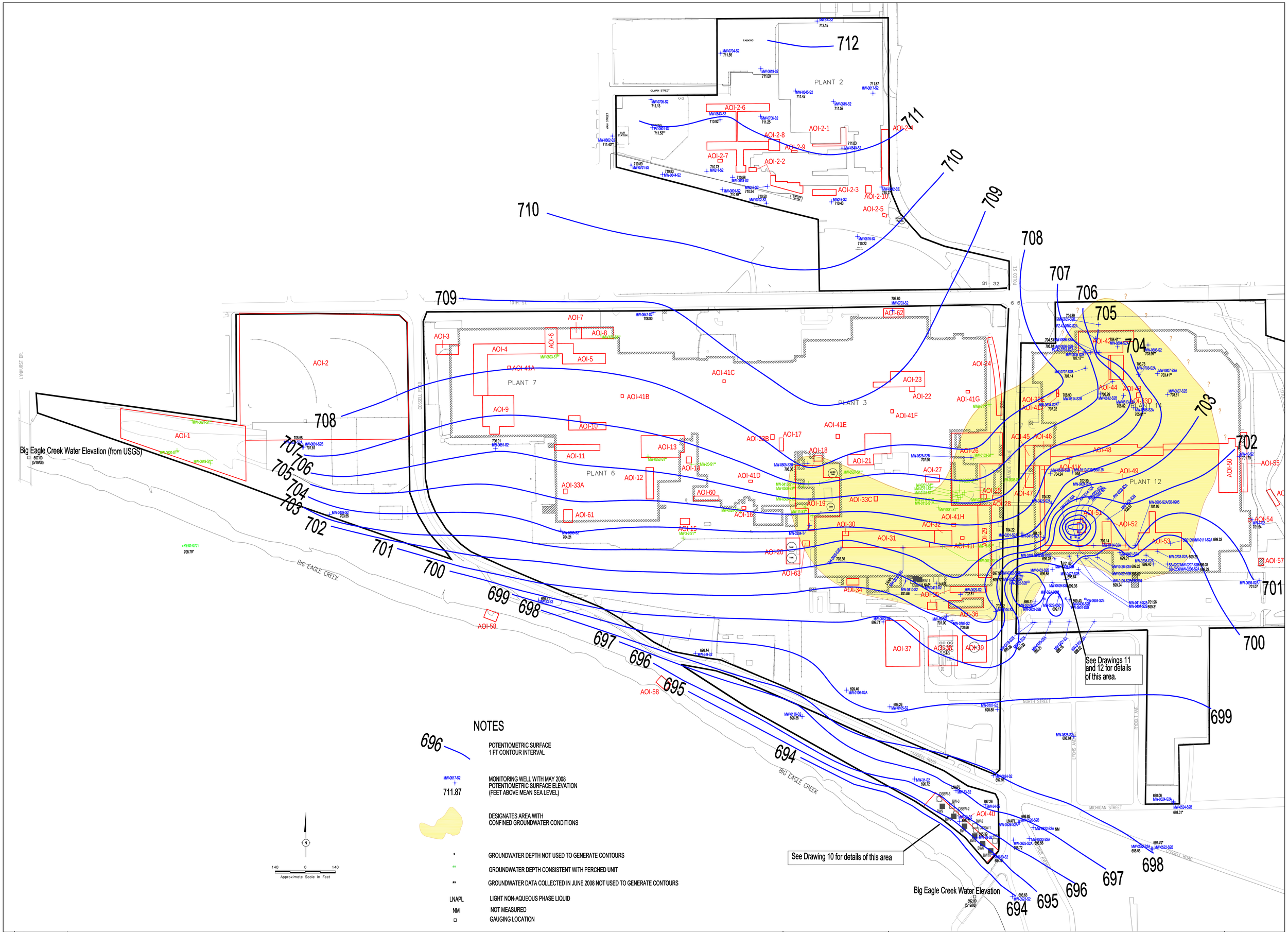
POTENTIOMETRIC SURFACE OF UPPERMOST SAND UNITS- S1 and S2
OCTOBER 2007

SPEEDWAY, INDIANA

Project Number	IN000473.0017
Date	12/11/08
Figure	3.4.16

RESUBMITTED FEBRUARY 2009

RESUBMITTED FEBRUARY 2009



Area Manager	S. GLENN
Project Director	J. COSGROVE
Task Manager	S. FISHER
Technical Review	HGL

© 2008 ARCADIS

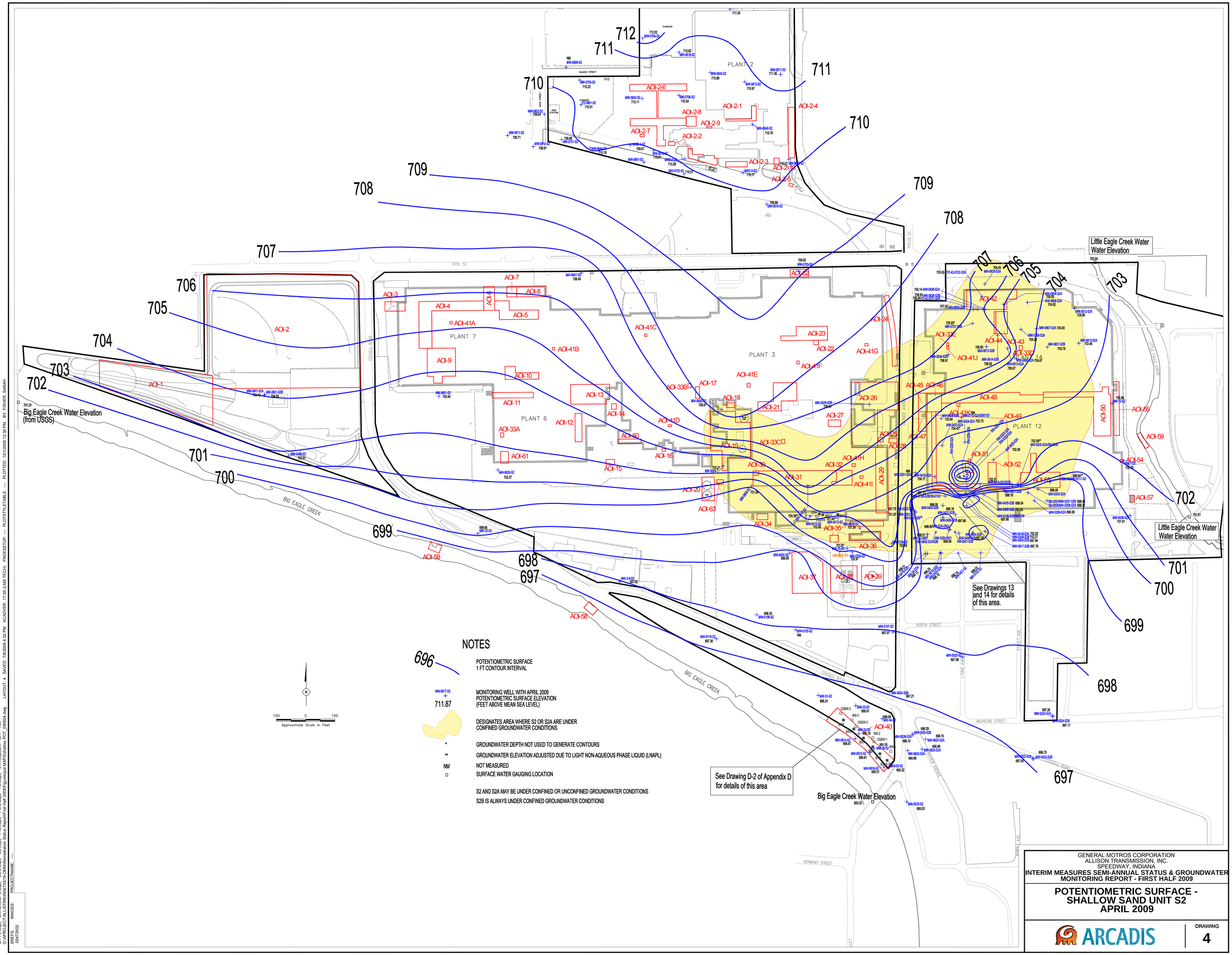
ARCADIS
251 East Ohio Street
Suite 800
Indianapolis, Indiana 46204
Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

ALLISON TRANSMISSION
ADDITIONAL SAMPLING DATA REPORT

POTENTIOMETRIC SURFACE OF SHALLOW SAND UNIT S2
MAY - JUNE 2008

SPEEDWAY, INDIANA

Project Number	IN000473.0017
Date	9/16/08
Drawing	7



NOTES

696 — POTENTIOMETRIC SURFACE 1 FT CONTOUR INTERVAL

MW-0617-S2 711.87 — MONITORING WELL WITH APRIL 2009 POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)

DESIGNATES AREA WHERE S2 OR S2A ARE UNDER CONFINED GROUNDWATER CONDITIONS

* GROUNDWATER DEPTH NOT USED TO GENERATE CONTOURS

** GROUNDWATER ELEVATION ADJUSTED DUE TO LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL)

NM NOT MEASURED

□ SURFACE WATER GAUGING LOCATION

S2 AND S2A MAY BE UNDER CONFINED OR UNCONFINED GROUNDWATER CONDITIONS

S2B IS ALWAYS UNDER CONFINED GROUNDWATER CONDITIONS

GENERAL MOTROS CORPORATION
ALLISON TRANSMISSION, INC.
SPEEDWAY, INDIANA

INTERIM MEASURES SEMI-ANNUAL STATUS & GROUNDWATER MONITORING REPORT - FIRST HALF 2009

POTENTIOMETRIC SURFACE - SHALLOW SAND UNIT S2 APRIL 2009

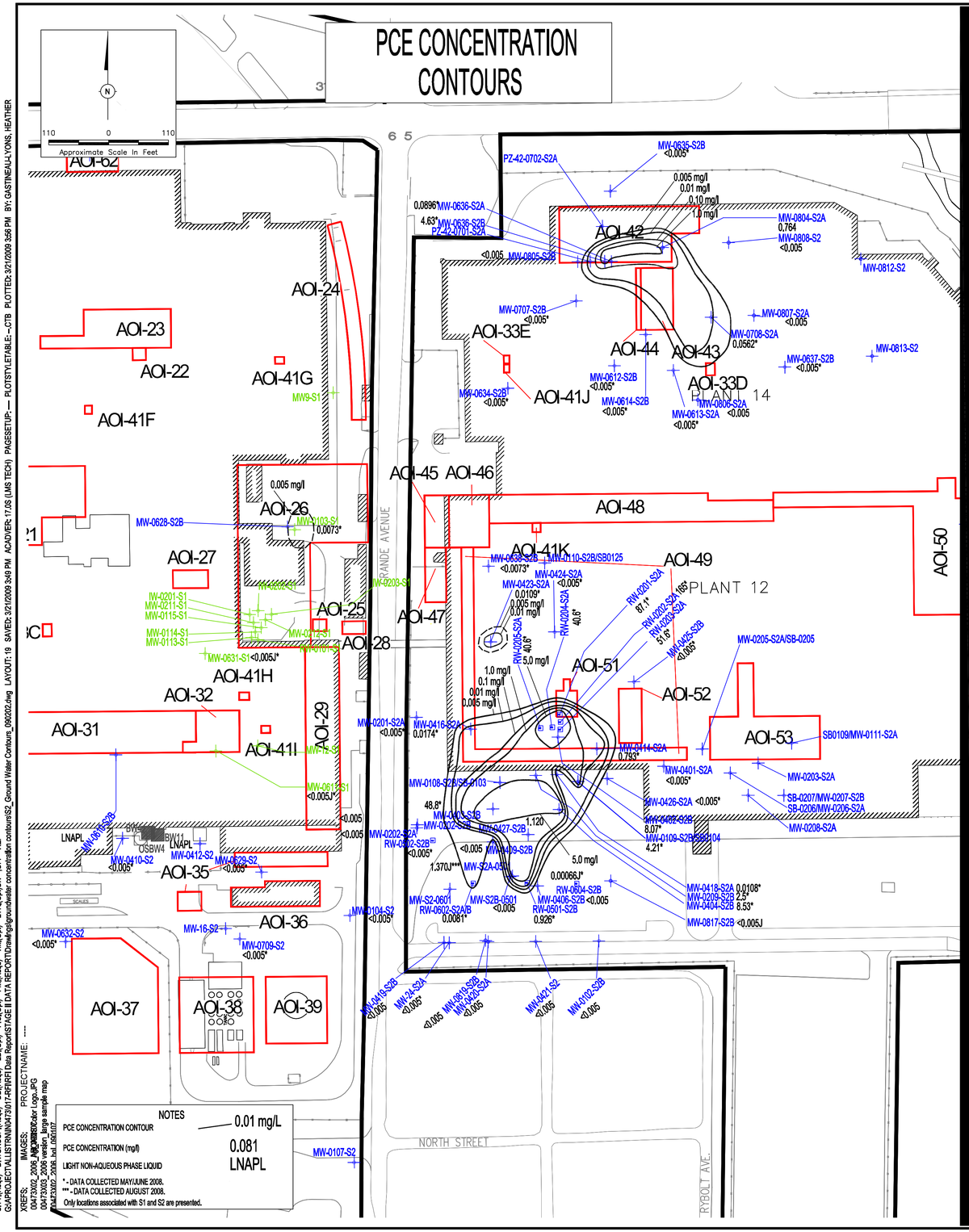
ARCADIS

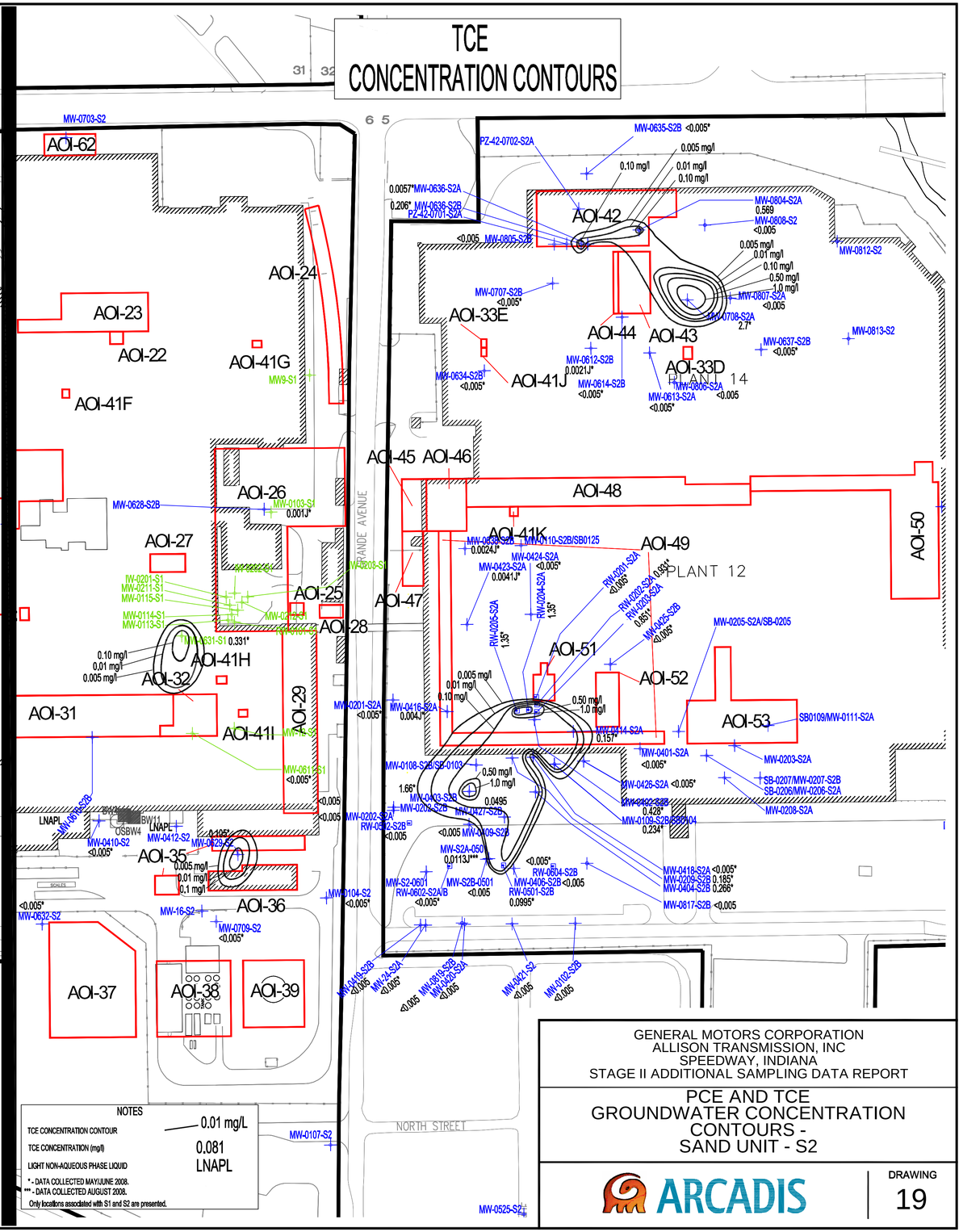
DRAWING 4

ARCADIS

Attachment D

Concentration Contour Drawings



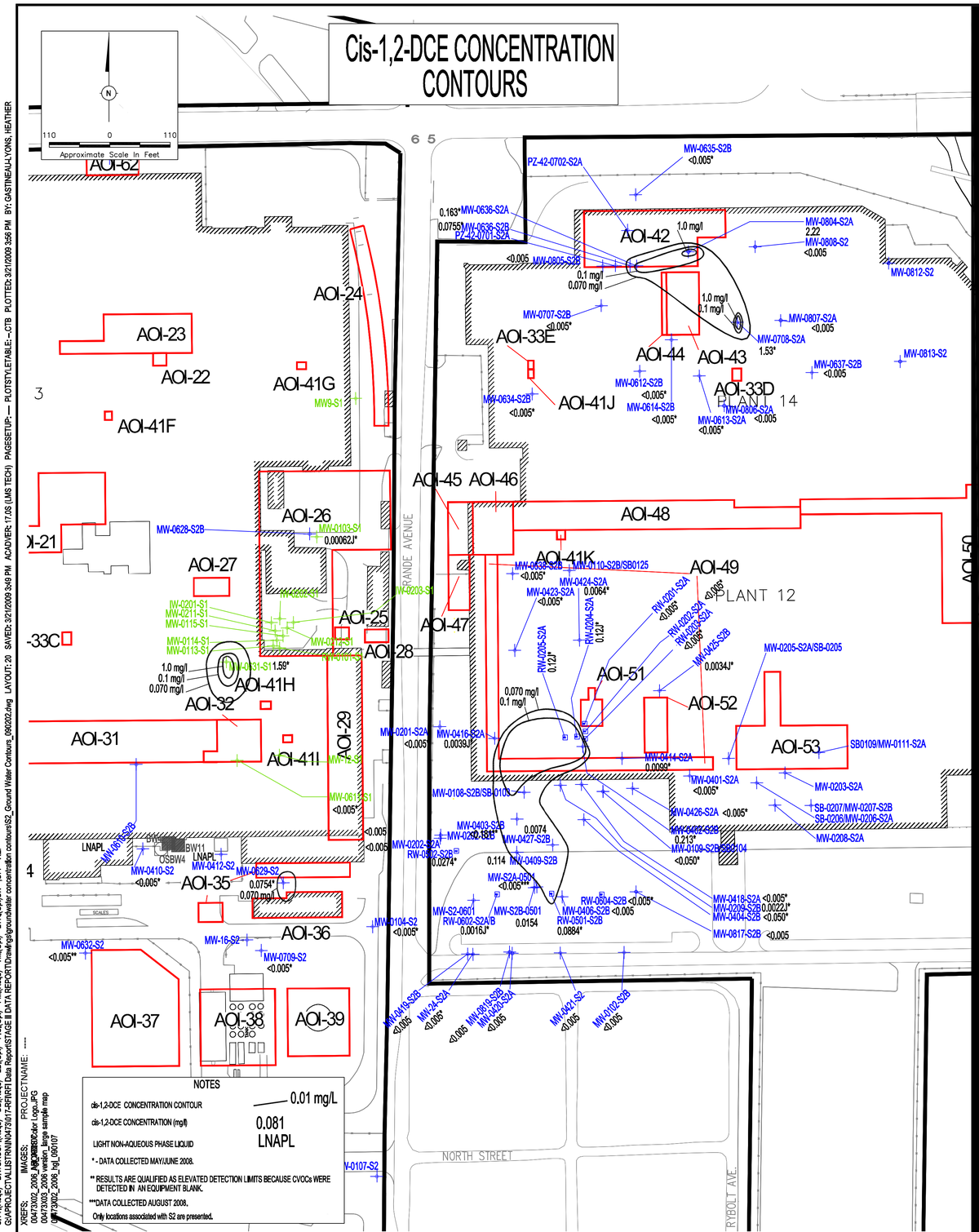


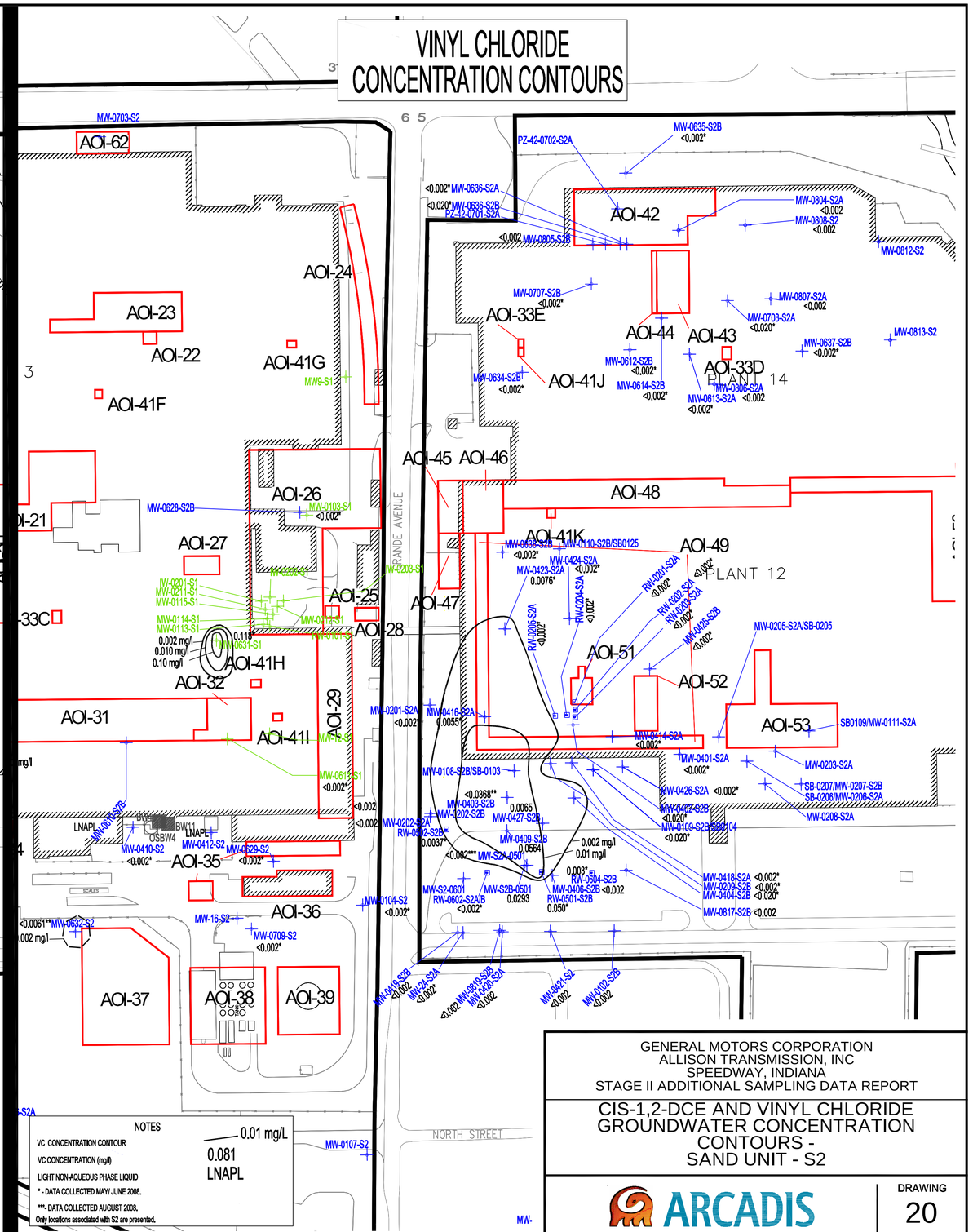
GENERAL MOTORS CORPORATION
ALLISON TRANSMISSION, INC
SPEEDWAY, INDIANA
STAGE II ADDITIONAL SAMPLING DATA REPORT

PCE AND TCE
GROUNDWATER CONCENTRATION
CONTOURS -
SAND UNIT - S2

ARCADIS

DRAWING
19



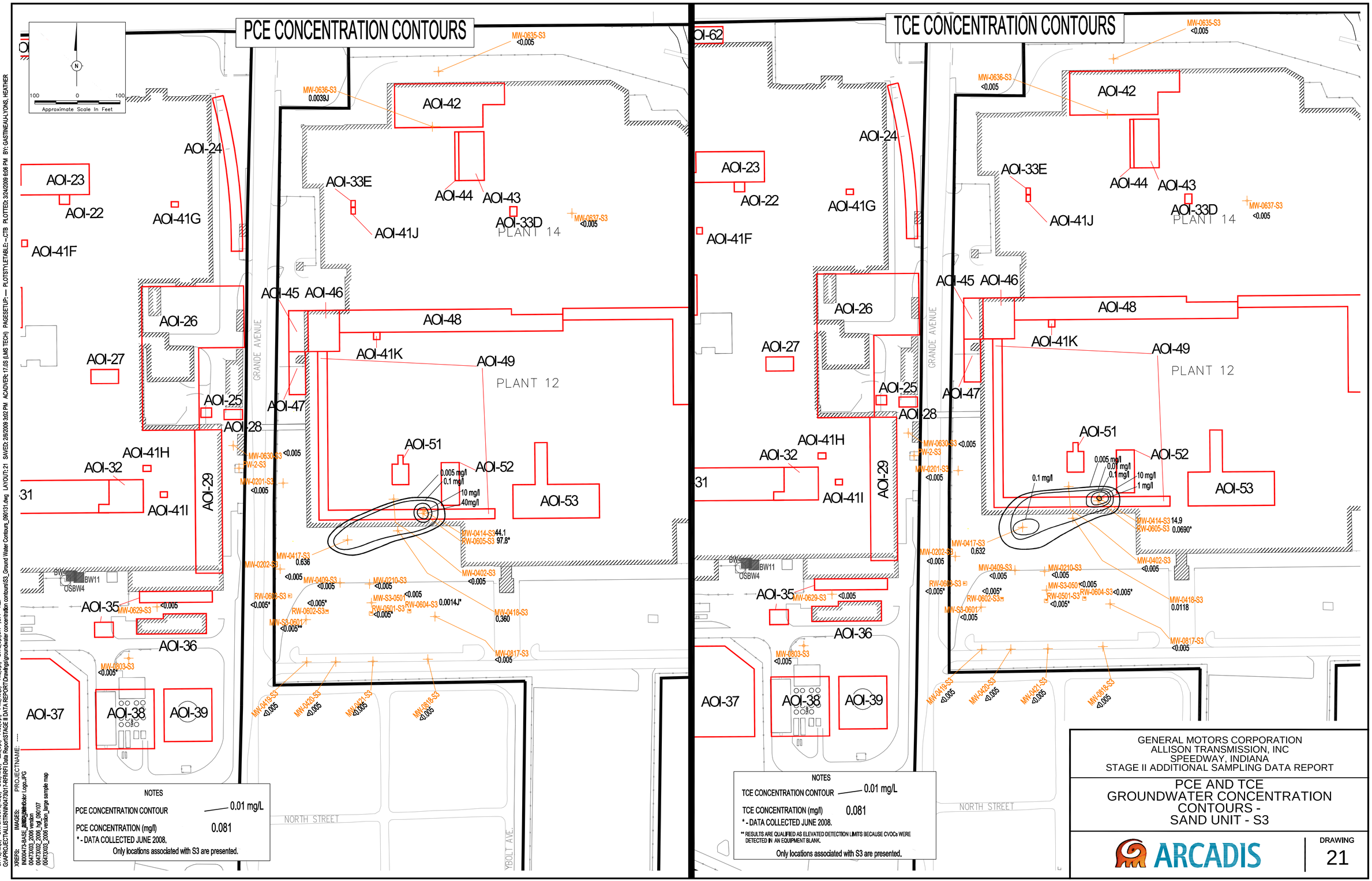


GENERAL MOTORS CORPORATION
ALLISON TRANSMISSION, INC
SPEEDWAY, INDIANA
STAGE II ADDITIONAL SAMPLING DATA REPORT

CIS-1,2-DCE AND VINYL CHLORIDE GROUNDWATER CONCENTRATION CONTOURS - SAND UNIT - S2

ARCADIS

DRAWING 20

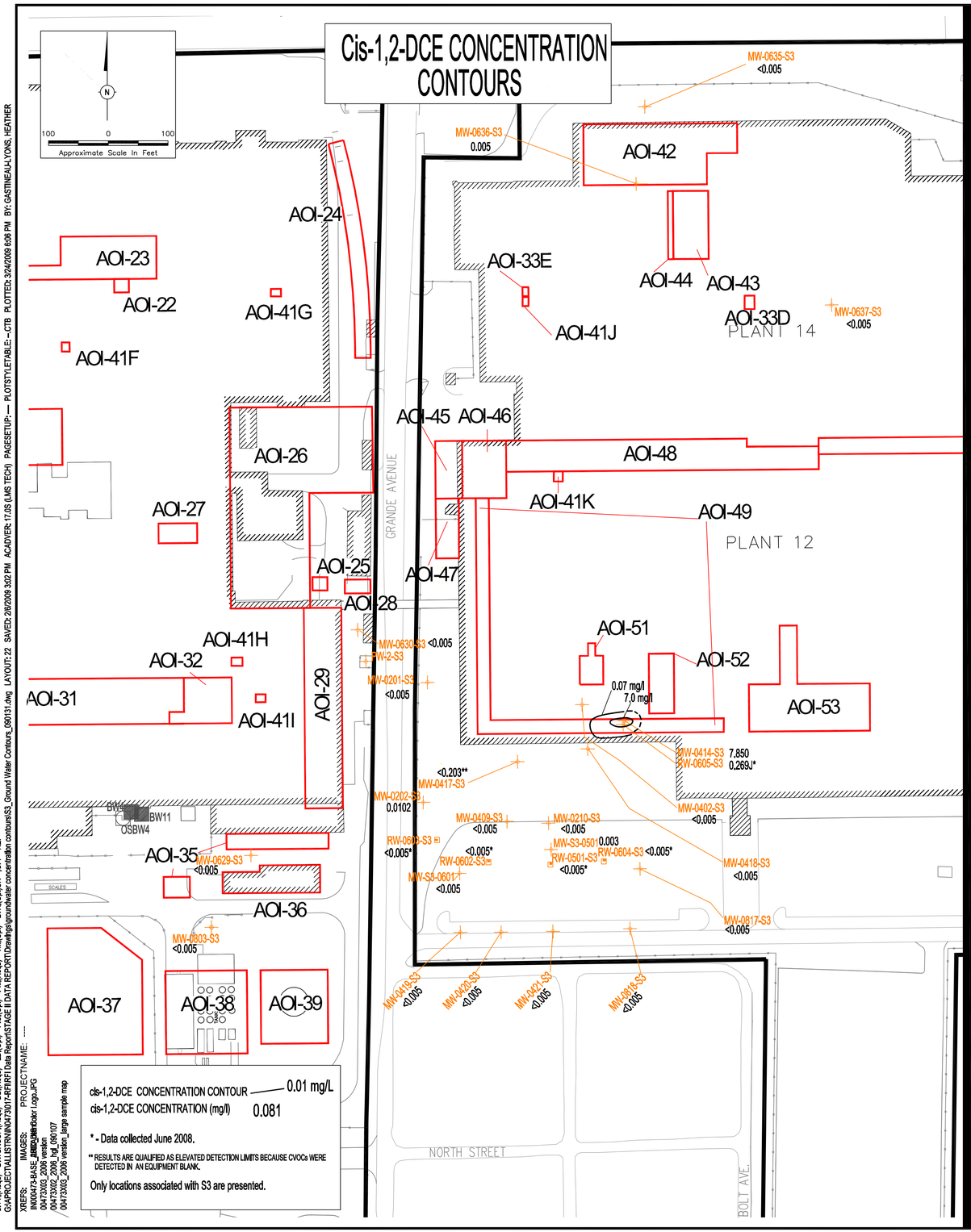


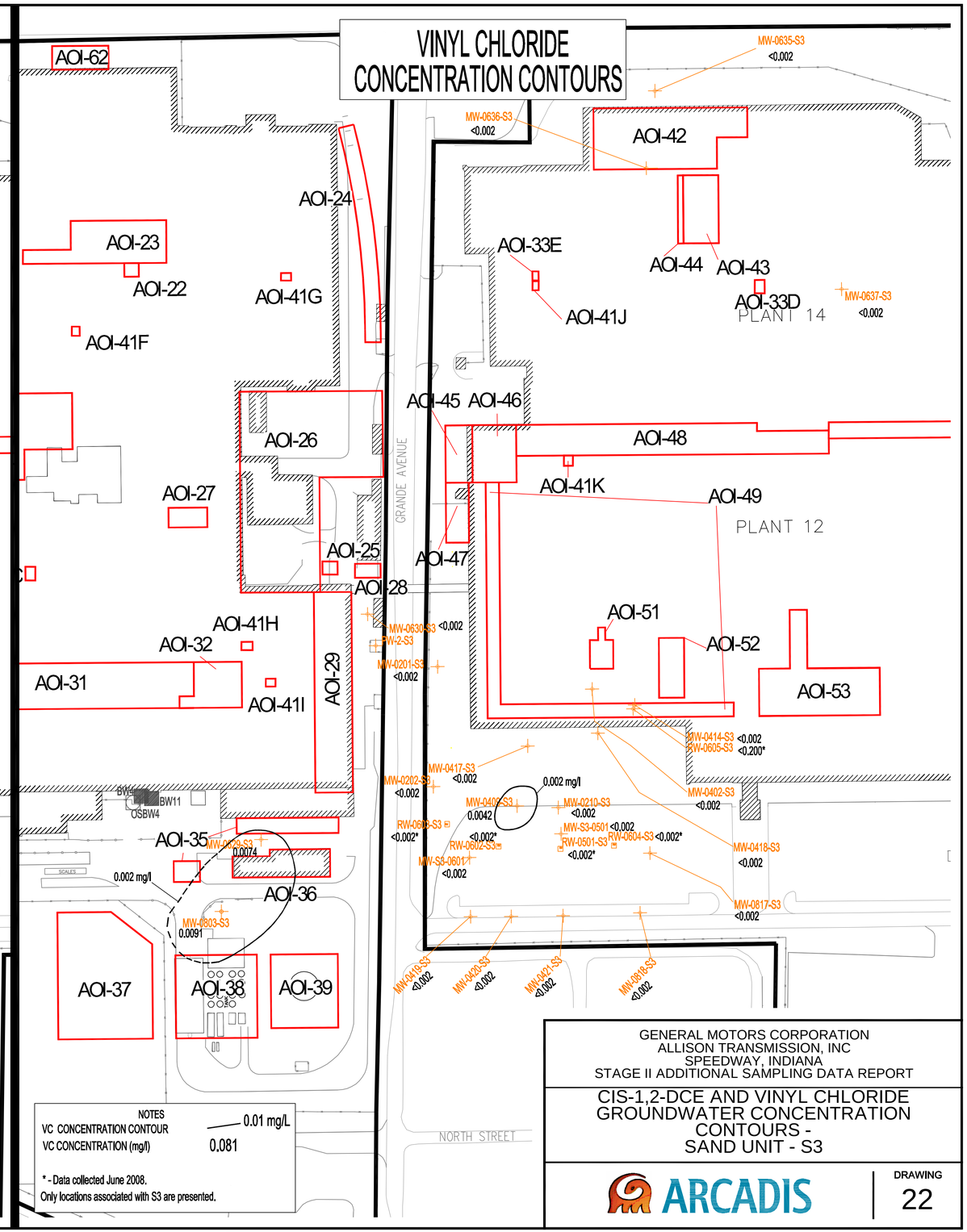
GENERAL MOTORS CORPORATION
ALLISON TRANSMISSION, INC
SPEEDWAY, INDIANA
STAGE II ADDITIONAL SAMPLING DATA REPORT

PCE AND TCE
GROUNDWATER CONCENTRATION
CONTOURS -
SAND UNIT - S3

ARCADIS

DRAWING
21





GENERAL MOTORS CORPORATION
ALLISON TRANSMISSION, INC
SPEEDWAY, INDIANA
STAGE II ADDITIONAL SAMPLING DATA REPORT

CIS-1,2-DCE AND VINYL CHLORIDE GROUNDWATER CONCENTRATION CONTOURS - SAND UNIT - S3

ARCADIS

DRAWING 22

CTY:(Req) DIV/GROUP:(Req) DB:(Req) LD:(Opt) PIC:(Opt) PM:(Req) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\APROJECT\ALLISTRN\NA473017-RFI\RFI Data Report\STAGE II DATA REPORT\Drawings\groundwater concentration contours\S3_Ground Water Contours_090131.dwg LAYOUT:22 SAVED: 2/6/2009 3:02 PM ACADVER: 17.0S (LMS TECH) PAGESETUP:---- PLOTSTYLETABLE:--CTB PLOTTED: 3/24/2009 6:06 PM BY: GASTINEAU-LYONS, HEATHER
XREFS: IN00473-BASE_JB00473-Color Logo.JPG
00473X03_2006 version
00473X02_2006_hgl_080107
00473X03_2006 version_large sample map
IMAGES: PROJECTNAME: ----

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-89**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Genuine Parts	DRILLING CO.:	Earth Exploration, Inc.	GROUND ELEVATION:	
ADDRESS:	567 Tomlinson/Holt Rd	DRILLER:	Sam	TOC ELEVATION:	
CITY, ST:	Rob Fedorchak	RIG TYPE:	Geoprobe	NORTHING:	
JOB NO.:	2829E	TOOLING:	Direct drive	EASTING:	
LOGGED BY:	Bruce Winningham	SAMPLER TYPE:	4 foot core barrel	▽	ENCOUNTERED WATER
DATES DRILLED:	11/04/2009	TOTAL DEPTH	42.4	▼	STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	BLOWS	REC.	FID ppm	BORING COMPLETION	WELL DESCRIPTION
0	FILL: Gravel mixed with loam.						
2	SANDY LOAM: Pebbly, pebbles 5%, very fine to medium; dark gray (2.5YN4).			3.55	0		
4	LOAM: Pebbly, pebbles 5%, very fine to medium; very dark gray (2.5YN3); friable to very friable, dry to damp.				100		
6				3.95	110		
8	LOAM: Pebbly, pebbles 5%, very fine to medium; dark brown (7.5YR3/3); firm, dry to damp, abrupt lower contact.				229		
10	SAND: Fine to coarse, well to moderately sorted; grading from dark brown (7.5YR3/3) to yellowish brown (10YR5/8); loose, dry; abrupt lower contact.			1.82	8.1		
12					0		
14				0.25			
16	LOAM: Pebbly, pebbles 25%, very fine to coarse; brown (10YR5/3); firm, damp.						
18	SAND: Medium to coarse; yellowish brown (10YR5/8); loose, dry.			2.76	0		
20	LOAM: Pebbly, pebbles 25%, very fine to coarse; brown (10YR5/3); firm, damp.						
22	SAND: Medium sand to medium to coarse sand with pebbles, pebbles 0-5%, very fine to fine; yellowish brown (10YR5/8); loose, moist.	GW Sample 21-24 feet		2.6	0		
24	SAND AND GRAVEL: Pebbles 10 to 20%, very fine to coarse; dark grayish brown to dark gray (10YR4/2) to 10YR4/1); medium consistence, wet.						
26				2.1	0		
28					24		
30				0.25			

NOTES:

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-89**

PROJECT INFORMATION	DRILLING INFORMATION	
PROJECT: **Genuine Parts**	DRILLING CO.: **Earth Exploration, Inc.**	GROUND ELEVATION:
ADDRESS: **567 Tomlinson/Holt Rd**	DRILLER: **Sam**	TOC ELEVATION:
CITY, ST: **Rob Fedorchak**	RIG TYPE: **Geoprobe**	NORTHING:
JOB NO.: **2829E**	TOOLING: **Direct drive**	EASTING:
LOGGED BY: **Bruce Winningham**	SAMPLER TYPE: **4 foot core barrel**	▽ ENCOUNTERED WATER
DATES DRILLED: **11/04/2009**	TOTAL DEPTH **42.4**	▼ STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	BLOWS	REC.	FID ppm	BORING COMPLETION	WELL DESCRIPTION
30							
32		GW Sample 28-32 feet					
34				4	0		
36							
38				4	0		
40		GW Sample 38-42 feet					
42	NO RECOVERY: Refusal.			2.4			
44							
46							
48							
50							

NOTES:

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-90**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Genuine Parts	DRILLING CO.:	Earth Exploration, Inc.	GROUND ELEVATION:	
ADDRESS:	549 Tomlinson/Holt Rd.	DRILLER:	Sam	TOC ELEVATION:	
CITY, ST:	Rob Fedorchak	RIG TYPE:	Geoprobe	NORTHING:	
JOB NO.:	2829E	TOOLING:	Direct drive	EASTING:	
LOGGED BY:	Bruce Winningham	SAMPLER TYPE:	4 foot core barrel	▽	ENCOUNTERED WATER
DATES DRILLED:	11/5/2009	TOTAL DEPTH	42.4	▼	STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	BLOWS	REC.	FID ppm	BORING COMPLETION	WELL DESCRIPTION
0	SILT LOAM: Pebbles <5%; (10YR3/4); dry.						
2	LOAM: Pebbles 5 to 10%, very fine to medium; (7.5YR2.5/3); dry, firm.			3.42			
4	SILT LOAM: Pebbles 5%, fine to medium; (7.5YR2.5/2); dry to damp.						
6				3.8			
8	LOAM: Pebbles 5 to 10%, fine to medium; (7.5YR3/3); dry to damp, firm; abrupt lower contact.						
10	SAND: Medium to coarse; with pebbles, very fine to medium; yellowish brown (10YR5/8); dry.			2.5			
12							
14				2.75			
16	SILT LOAM: Pebbles 5%, very fine to medium; (10YR4/6); abrupt lower contact.						
18	SAND: Pebbles 0-5%, very fine to medium; yellowish brown (10YR5/6); wet at 21.5 feet.			2.25			
20							
22		GW Sample 21-24 feet		3.4			
24	SAND: Medium, well sorted; brown (10YR5/3); wet.						
26				2			
28	SAND AND GRAVEL: Pebbles fine to medium; brown (10YR5/3); wet.	GW Sample		4			
30							

NOTES:

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-90**

PROJECT INFORMATION	DRILLING INFORMATION	
PROJECT: **Genuine Parts**	DRILLING CO.: **Earth Exploration, Inc.**	GROUND ELEVATION:
ADDRESS: **549 Tomlinson/Holt Rd.**	DRILLER: **Sam**	TOC ELEVATION:
CITY, ST: **Rob Fedorchak**	RIG TYPE: **Geoprobe**	NORTHING:
JOB NO.: **2829E**	TOOLING: **Direct drive**	EASTING:
LOGGED BY: **Bruce Winningham**	SAMPLER TYPE: **4 foot core barrel**	▽ ENCOUNTERED WATER
DATES DRILLED: **11/5/2009**	TOTAL DEPTH **42.4**	▼ STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	BLOWS	REC.	FID ppm	BORING COMPLETION	WELL DESCRIPTION
30		28-32 feet					
32	SAND: Medium, well sorted; brown (10YR5/3); wet.						
34				4			
36	SAND AND GRAVEL: Pebbles fine to coarse; gray (10YR5/1); wet, abrupt lower contact.						
38				4			
40		GW Sample 38-42 feet					
42	SILT LOAM: Pebbles 2%, very fine to fine; dark gray (10YR4/1); extremely firm, massive, damp.			3.8			
44							
46							
48							
50							

NOTES:

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-91**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Genuine Parts	DRILLING CO.:	Earth Exploration, Inc.	GROUND ELEVATION:	
ADDRESS:	545 Tomlinson/Holt Rd.	DRILLER:	Carl	TOC ELEVATION:	
CITY, ST:	Rob Fedorchak	RIG TYPE:	Geoprobe	NORTHING:	
JOB NO.:	2829E	TOOLING:	Direct drive	EASTING:	
LOGGED BY:	Bruce Winningham	SAMPLER TYPE:	4 foot core barrel	▽	ENCOUNTERED WATER
DATES DRILLED:	11/06/2009	TOTAL DEPTH	43.7	▼	STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	BLOWS	REC.	FID ppm	BORING COMPLETION	WELL DESCRIPTION
0	LOAM: Pebbles fine to coarse; brown (10YR5/3) to dark grayish brown (10YR4/3); friable to firm, dry to damp; abrupt lower contact.						
2				3.32	0		
4					15		
6	SAND AND GRAVEL: Pebbles 20 to 25%, very fine to medium, poorly sorted; brown (10YR5/3); dry, loose.			2.71	0		
8					0		
10				2.98	0		
12					0		
14				2.74	0		
16	SILT LOAM: Pebbles 10 to 20%, very fine to medium; brown (10YR5/3); friable, moist, slightly plastic.				0 0		
	SILT LOAM: As above; grayish brown (10YR5/2).				0		
18	SAND: Medium, well sorted; brown (10YR5/3); loose, dry to moist.			2.49			
20							
22	SAND: Pebbles 5 to 10%, very fine to fine; brown (10YR5/3); medium consistence, wet.	GW Sample 21-24 feet		2.83	0		
24	SAND: Medium, well sorted; grayish brown (10YR5/2); wet, medium consistence.				0 1.2		
26	NO RECOVERY			0.9			
28							
30				0			

NOTES:

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-91**

PROJECT INFORMATION	DRILLING INFORMATION	
PROJECT: **Genuine Parts**	DRILLING CO.: **Earth Exploration, Inc.**	GROUND ELEVATION:
ADDRESS: **545 Tomlinson/Holt Rd.**	DRILLER: **Carl**	TOC ELEVATION:
CITY, ST: **Rob Fedorchak**	RIG TYPE: **Geoprobe**	NORTHING:
JOB NO.: **2829E**	TOOLING: **Direct drive**	EASTING:
LOGGED BY: **Bruce Winningham**	SAMPLER TYPE: **4 foot core barrel**	▽ ENCOUNTERED WATER
DATES DRILLED: **11/06/2009**	TOTAL DEPTH **43.7**	▼ STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	BLOWS	REC.	FID ppm	BORING COMPLETION	WELL DESCRIPTION
30							
32		GW Sample 30-34 feet					
34				0			
36	GRAVEL: Pebbles fine to medium; brown (10YR5/3); wet.				0		
38				0.9			
40	SAND: Medium to coarse, moderately sorted; dark gray (10YR4/1); dense, wet; abrupt lower contact.						
42	SILT LOAM: Pebbles 2%, very fine to fine; dark gray (10YR4/1); extremely firm, massive, damp.	GW Sample 40-44 feet		4			
44							
46							
48							
50							

NOTES:

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-92**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Genuine Parts	DRILLING CO.:	Earth Exploration, Inc.	GROUND ELEVATION:	
ADDRESS:	509 Tomlinson/Holt Rd.	DRILLER:	Sam	TOC ELEVATION:	
CITY, ST:	Rob Fedorchak	RIG TYPE:	Geoprobe	NORTHING:	
JOB NO.:	2829E	TOOLING:	Direct drive	EASTING:	
LOGGED BY:	Bruce Winningham	SAMPLER TYPE:	4 foot core barrel	▽	ENCOUNTERED WATER
DATES DRILLED:	11/09/2009	TOTAL DEPTH	39.5	▼	STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	BLOWS	REC.	FID ppm	BORING COMPLETION	WELL DESCRIPTION
0	TOPSOIL						
2	LOAM: Pebbles 10%, very fine to medium.			3.45	0		
	LOAM: Black (5Y2.5/1); friable, damp.				316		
4	LOAM: As above; olive (5Y4/3).				160		
6	SILT LOAM: Pebbles 2 to 5%, very fine to medium; strong brown (7.5YR4/6); friable, damp to moist, massive; abrupt lower contact.			2.86	0 0 0		
8	SAND: Medium to coarse; pebbles 2%, very fine to fine; yellowish brown (10YR5/4) and light brownish gray (10YR6/2); loose, dry; abrupt lower contact.				0		
10				2.67	0		
	SILT LOAM: Brown (10YR5/3); damp, friable.						
12	SILT: Very well sorted; yellowish brown and light brownish gray (10YR6/2); moist to wet; abrupt lower contact.				0		
14	SAND: Pebbles 5 to 10%, very fine to medium; grayish brown (10YR5/2); medium consistence, wet at 20.5 feet.			3.30	0 0		
16					0		
18				2.77	6.6		
20					0		
22		GW Sample 20-24 feet		2.70	0		
24	SAND AND GRAVEL: Coarse; pebbles 20 to 25%; poorly sorted; grayish brown (10YR5/2); dense, wet; abrupt lower contact.						
26				1.5			
28					0		
30		GW Sample		3.50	0		

NOTES:

KERAMIDA INC.

1.800.508.8034
www.keramida.com

BOREHOLE NO.: **KB-92**

PROJECT INFORMATION		DRILLING INFORMATION			
PROJECT:	Genuine Parts	DRILLING CO.:	Earth Exploration, Inc.	GROUND ELEVATION:	
ADDRESS:	509 Tomlinson/Holt Rd.	DRILLER:	Sam	TOC ELEVATION:	
CITY, ST:	Rob Fedorchak	RIG TYPE:	Geoprobe	NORTHING:	
JOB NO.:	2829E	TOOLING:	Direct drive	EASTING:	
LOGGED BY:	Bruce Winningham	SAMPLER TYPE:	4 foot core barrel	▽	ENCOUNTERED WATER
DATES DRILLED:	11/09/2009	TOTAL DEPTH	39.5	▼	STATIC WATER LEVEL

DEPTH	SOIL DESCRIPTION: texture, moisture, plasticity Munsell color, concretions or mottles, odor	SAMPLE	BLOWS	REC.	FID ppm	BORING COMPLETION	WELL DESCRIPTION
30		28-32 feet			0		
32					0		
34				3.95	0		
36	SILT LOAM: Pebbles 2%, very fine to fine; dark gray (10YR4/1); extremely firm, massive, damp.				0		
38		GW Sample 36-40 feet		3.90	0		
40					0		
42							
44							
46							
48							
50							

NOTES:

Sample No.	MW-0639-S2A
Date Sampled	11/5/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	<5.0

Sample No.	MW-0208-S2A
Date Sampled	11/5/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	<5.0

Sample No.	KB-89 (21-24)
Date Sampled	11/4/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0
Acetone	<10

Sample No.	KB-90 (21-24)
Date Sampled	11/5/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0
Acetone	<10

Sample No.	KB-91 (21-25)
Date Sampled	11/6/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0
Acetone	**18**

Sample No.	KB-92 (20-24)
Date Sampled	11/9/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0
Acetone	<10

Sample No.	132R
Date Sampled	11/3/2009
PCE	<1.0
TCE	**33**
c-1,2-DCE	**9.8**
t-1,2-DCE	**1.8**
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	**2.5**

Sample No.	147AR
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	148R
Date Sampled	11/3/2009
PCE	<1.0
TCE	**110**
c-1,2-DCE	**480**
t-1,2-DCE	**39**
VC	**48**
1,1-DCE	<1.0
1,1-DCA	**4.9**

Sample No.	154
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	153
Date Sampled	11/3/2009
PCE	<1.0
TCE	**190**
c-1,2-DCE	**25**
t-1,2-DCE	**2.1**
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	133R
Date Sampled	11/4/2009
PCE	<1.0
TCE	**4.2**
c-1,2-DCE	**3.1**
t-1,2-DCE	**1.6**
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	145
Date Sampled	11/4/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	**50**
t-1,2-DCE	<1.0
VC	**5.4**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	161
Date Sampled	11/4/2009
PCE	<1.0
TCE	**110**
c-1,2-DCE	**100**
t-1,2-DCE	**1.9**
VC	**5.2**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	165S
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	2.9
t-1,2-DCE	<1.0
VC	**2.4**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	166S
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	**170**
t-1,2-DCE	**9.7**
VC	**6.5**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	167S
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	MMW-11S
Date Sampled	11/2/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**59.9**
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-12S
Date Sampled	11/2/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**28.8**
t-1,2-DCE	<5.0
VC	**7.1**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-1S
Date Sampled	11/2/2009
PCE	**189**
TCE	**39**
c-1,2-DCE	**119**
t-1,2-DCE	<5.0
VC	**26.6**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-10S
Date Sampled	11/2/2009
PCE	**12.8**
TCE	**10.1**
c-1,2-DCE	**239**
t-1,2-DCE	**5.6**
VC	**119**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-9S
Date Sampled	11/2/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**5,410**
t-1,2-DCE	**120**
VC	**1,050**
1,1-DCE	**5.3**
1,1-DCA	NA

Sample No.	MMW-P-06
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**107**
t-1,2-DCE	**15.2**
VC	**292**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-8S
Date Sampled	11/2/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**58.3**
t-1,2-DCE	<5.0
VC	**277**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-P-07
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**809**
t-1,2-DCE	**14.1**
VC	**1,510**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-P-08
Date Sampled	11/3/2009
PCE	<50.0
TCE	<50.0
c-1,2-DCE	**86.7**
t-1,2-DCE	<50.0
VC	**2,860**
1,1-DCE	<50.0
1,1-DCA	NA

Sample No.	MMW-P-10S
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**29.6**
t-1,2-DCE	<5.0
VC	**288**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	170S
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	**2**
t-1,2-DCE	<1.0
VC	**5.2**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	MMW-P02
Date Sampled	11/3/2009
PCE	**11.1**
TCE	<5.0
c-1,2-DCE	**60.1**
t-1,2-DCE	<5.0
VC	**73.9**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-P-05
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**7.6**
t-1,2-DCE	<5.0
VC	**2.7**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-P-01
Date Sampled	11/3/2009
PCE	**103**
TCE	**58.3**
c-1,2-DCE	**9,330**
t-1,2-DCE	<50.0
VC	**4,770**
1,1-DCE	<50.0
1,1-DCA	NA

Sample No.	MMW-C-01
Date Sampled	11/3/2009
PCE	**12.6**
TCE	<5.0
c-1,2-DCE	**211**
t-1,2-DCE	**8.9**
VC	**2,720**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-P-04
Date Sampled	11/5/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**1,190**
t-1,2-DCE	**36.9**
VC	**90.9**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-P-03S
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**141**
t-1,2-DCE	**16.1**
VC	**379**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	169S
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	MMW-C-02
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-P-09S
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	NA

LEGEND:

- MW148 kerimado Monitoring Well
- MW148 Mundell Monitoring Well
- MW148 Allison Monitoring Well
- Existing Building (Commercial, Residential, Trailers)
- Little Eagle Creek
- Property Boundary/ Fence Line

SCALE: 1" = 150

0 75' 150'

KERAMIDA
Global EHS & Sustainability Services

Project:	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana
	Drawn By: J.CLARK
Project Number: 2829E	Approved By: RSF
Date: December 4, 2009	File No. GenuinePtsFig

Shallow Groundwater Results
November 2009

Sample No.	MW-0901-S3
Date Sampled	11/9/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	<5.0

Sample No.	MW-0902-S3
Date Sampled	11/9/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	<5.0

Sample No.	MW-0901-S2B
Date Sampled	11/9/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	<5.0

Sample No.	MW-0903-S3
Date Sampled	11/9/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	<5.0

Sample No.	MW-0207-S2B
Date Sampled	11/9/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	<5.0

Sample No.	302
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	<1.0
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	MW-0904-S3
Date Sampled	11/5/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	<2.0
1,1-DCE	<5.0
1,1-DCA	<5.0

Sample No.	MW-0904-S2B	MW-0904-S2B(dup)
Date Sampled	11/5/2009	11/9/2009
PCE	<5.0	<5.0
TCE	<5.0	<5.0
c-1,2-DCE	<5.0	<5.0
t-1,2-DCE	<5.0	<5.0
VC	<2.0	<2.0
1,1-DCE	<5.0	<5.0
1,1-DCA	<5.0	<5.0

Sample No.	KB-89 (28-32)	KB-89 (38-42)
Date Sampled	11/4/2009	11/4/2009
PCE	<1.0	<1.0
TCE	<1.0	<1.0
c-1,2-DCE	<1.0	**1**
t-1,2-DCE	<1.0	<1.0
VC	<1.0	<1.0
1,1-DCE	<1.0	<1.0
1,1-DCA	<1.0	<1.0
Acetone	<10	<10

Sample No.	KB-90 (28-32)	KB-90 (38-42)
Date Sampled	11/5/2009	11/5/2009
PCE	<1.0	<1.0
TCE	<1.0	<1.0
c-1,2-DCE	<1.0	**3.5**
t-1,2-DCE	<1.0	<1.0
VC	<1.0	<1.0
1,1-DCE	<1.0	<1.0
1,1-DCA	<1.0	<1.0
Acetone	<10	<10

Sample No.	KB-91 (30.34)	KB-91 (40-44)
Date Sampled	11/9/2009	11/9/2009
PCE	<1.0	<1.0
TCE	<1.0	<1.0
c-1,2-DCE	<1.0	**1.3**
t-1,2-DCE	<1.0	<1.0
VC	<1.0	<1.0
1,1-DCE	<1.0	<1.0
1,1-DCA	<1.0	<1.0
Acetone	<10	**12**
Toluene	**1.1**	<1

Sample No.	KB-92 (28-32)	KB-92 (36-40)
Date Sampled	11/9/2009	11/9/2009
PCE	<1.0	<1.0
TCE	<1.0	<1.0
c-1,2-DCE	<1.0	<1.0
t-1,2-DCE	<1.0	<1.0
VC	<1.0	<1.0
1,1-DCE	<1.0	<1.0
1,1-DCA	<1.0	<1.0
Acetone	<10	<10
Toluene	<1	**1.2**

Sample No.	165D
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	**280**
t-1,2-DCE	**2.4**
VC	**400**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	MMW-14D
Date Sampled	11/2/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**541**
t-1,2-DCE	**9.2**
VC	**83.8**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	166D
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	**1,100**
t-1,2-DCE	**8.2**
VC	**240**
1,1-DCE	**3.9**
1,1-DCA	<1.0

Sample No.	MMW-11D
Date Sampled	11/2/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**771**
t-1,2-DCE	**31.8**
VC	**18.8**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-13D
Date Sampled	11/2/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**949**
t-1,2-DCE	<5.0
VC	**182**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MW-168D
Date Sampled	11/4/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	**99.1**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	MMW-P-10D
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**2,740**
t-1,2-DCE	<5.0
VC	**3,500**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	167D
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	**580**
t-1,2-DCE	**25**
VC	**34**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	170D
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	**200**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	MMW-P-03D
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	**8.5**
t-1,2-DCE	<5.0
VC	**168**
1,1-DCE	<5.0
1,1-DCA	NA

Sample No.	169D
Date Sampled	11/3/2009
PCE	<1.0
TCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
VC	**14**
1,1-DCE	<1.0
1,1-DCA	<1.0

Sample No.	MMW-P-09D
Date Sampled	11/3/2009
PCE	<5.0
TCE	<5.0
c-1,2-DCE	<5.0
t-1,2-DCE	<5.0
VC	**87.1**
1,1-DCE	<5.0
1,1-DCA	NA

LEGEND:

- MW145 kerimada Monitoring Well
- MW145 Mundell Monitoring Well
- MW145 Allison Monitoring Well
- Existing Building (Commercial, Residential, Trailers)
- Little Eagle Creek
- Property Boundary/ Fence Line

SCALE: 1" = 150'

0 75' 150'

KERAMIDA
Global EHS & Sustainability Services

Project:	Former General Motors Corporation Allison Gas Turbine Division-Plant 10 700 North Olin Avenue Indianapolis, Indiana
	Drawn By: J.CLARK
Project Number: 2829E	Approved By: RSF
Date: December 10, 2009	File No. GenuinePtsFig

Deep Groundwater Results
November 2009

ARCADIS U.S., Inc.
251 East Ohio Street
Suite 800
Indianapolis
Indiana 46204
Tel 317.231.6500
Fax 317.231.6514

MEMO

To:
David Favero, on behalf of GM

Copies:
file

From:
Heather Gastineau-Lyons

Date:
April 14, 2010

ARCADIS Project No.:
IN000473.0019

Subject:
PDB Sampling of MW-0102-S2

Draft - Privileged and Confidential - Prepared at the Request of GM Legal Counsel

---

ARCADIS on behalf of General Motors LLC (GM), sampled monitoring well MW-0102-S2 on February 3, 2011 groundwater samples were collected from monitoring well, MW-0102-S2, as part of the continued evaluation for the AOI 51 SVE and Groundwater Recovery System. Vinyl Chloride and cis-1,2-dichloroethene (DCE) have periodically been detected in monitoring well MW-0102-S2 since May 21, 2010. Table 1 summarizes the recent sampling events and analytical results from May 21, 2010 to present. It should be noted that monitoring well MW-0102-S2 was redeveloped by the drilling subcontractor, WDC on July 16, 2010 prior to the July 17, 2010 sampling event.

Vinyl chloride was again detected during the October 2010 groundwater sampling event. Please note that AOI 51 Soil Vapor Extraction (SVE) and Groundwater Recovery System was non-operational during this sampling event due to the request of USEPA for the groundwater gauging of Allison Transmission and off-site properties. Because of the May and October 2010 detections of vinyl chloride, vertical profiling of the water column utilizing the passive diffusion bag (PDBs) method was performed in January 2011. A total of six PDBs were deployed on January 18, 2011, at the screened intervals identified below and samples were collected on February 3, 2011 upon PDB equilibration. The AOI 51 SVE and Groundwater Recovery System was operational during the February 2011, sampling event (from January 18th through February 3$^{rd)}$. A transducer remained in the monitoring well below the deepest PDB sampler to record groundwater elevation at one minute intervals.

PDB set at screened interval below Top of Casing	Sample Name
25-26.5’	MW-0102-S2(25-26.5’)
26.5-28’	MW-0102-S2(26.5-28’)
28-29.5’	MW-0102-S2(28-29.5’)
29.5-31’	MW-0102-S2(29.5-31’)
31-32.5’	MW-0102-S2(31-32.5’)
32.5-34’	MW-0102-S2(32.5-34’)

After samples were collected from the PDB samplers, the containers were immediately sealed, labeled and placed in an ice-packed cooler that was transported to Pace Analytical Services, Inc. (Pace), located in Indianapolis, Indiana, observing proper chain-of-custody procedures. The groundwater samples were analyzed for VOCs in accordance with USEPA SW-846 Method 8260. VOC analytical results are summarized in Table 1. The constituents identified in Table 1 are the constituents identified through the RCRA Facility Investigation process or related to the operation of the interim measures systems (i.e., tetrachloroethene (PCE) and its breakdown products). The laboratory analytical results are attached.

Sampling of monitoring well MW-0102-S2 is proposed for Spring 2011. If three rounds vinyl chloride and/or cis-1-2,DCE detections are observed, a work plan will be presented to USEPA for review.

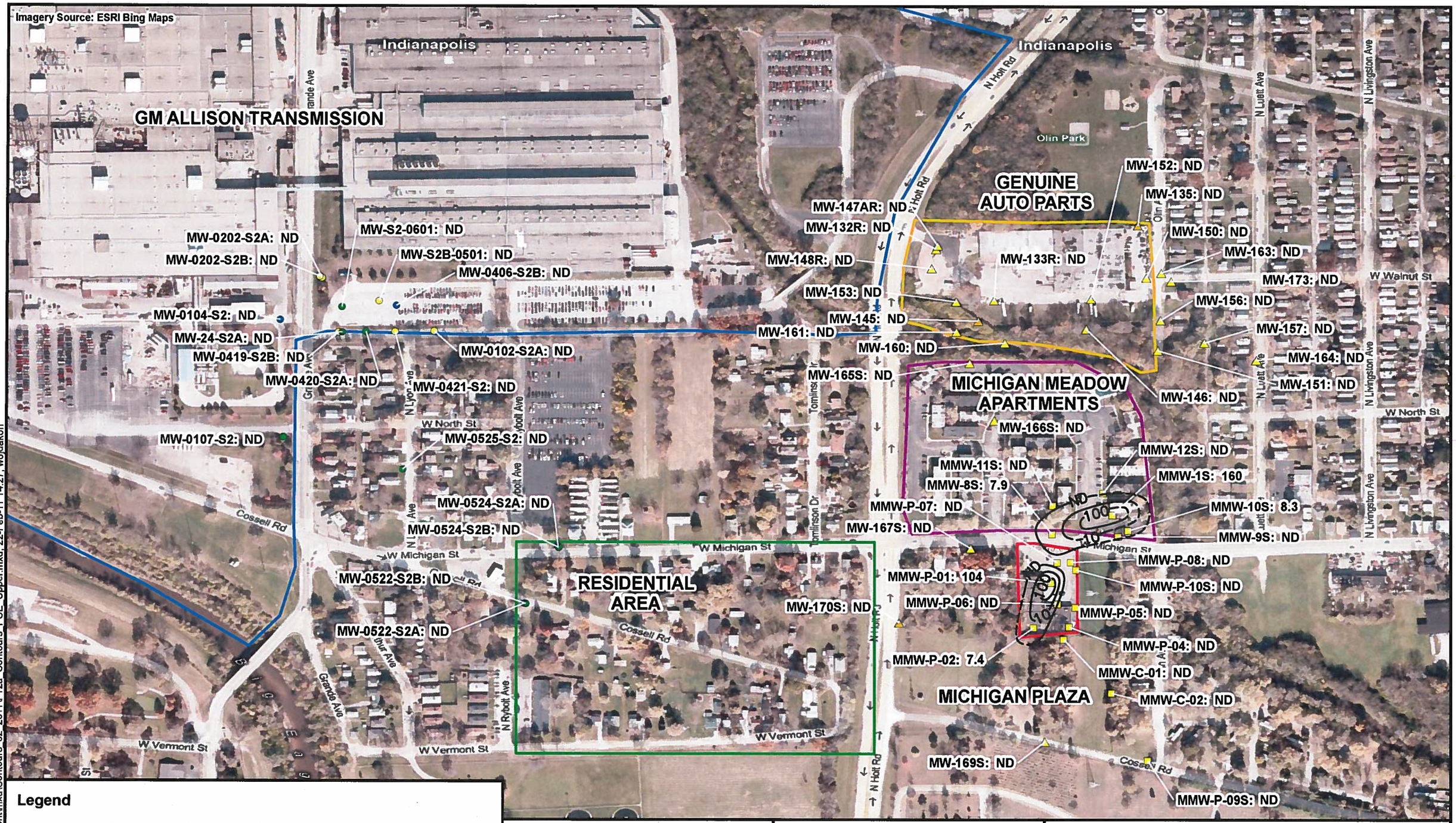
Draft - Privileged and Confidential Prepared at the Request of GM Legal Counsel

Table 1. Groundwater Analytical Data for Monitoring Well, MW-0102-S2, Allison Transmission, Inc., Speedway, Indiana.

AOI	Location ID	Sample Date	Sampling Method	Field Duplicate (FD)	1,1-Dichloroethene	1,2-Dibromoethane (Ethylene dibromide)	Benzene	Chloroethane	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl chloride	Xylenes (total)
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
AOI_51	MW-0102-S2	5/17/2001	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	
AOI_51	MW-0102-S2	11/2/2001	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	
AOI_51	MW-0102-S2	5/22/2003	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	11/20/2003	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	5/17/2004	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	11/12/2004	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	6/28/2005	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	1/11/2006	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	5/13/2008	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	10/28/2008	LF	FD	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	10/28/2008	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	4/6/2009	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	8/5/2009	LF		< 0.005 U	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	8/5/2009	LF	FD	< 0.005 U	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	5/21/2010	PDB		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	0.024	< 0.005 U	< 0.005 U	**0.0436**	< 0.01 U
AOI_51	MW-0102-S2	7/19/2010	LF	FD	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	0.0034 J	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	7/19/2010	LF		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	8/9/2010	PDB		< 0.005 U	< 0.005 UJ	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2	11/1/2010	PDB		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	**0.0027**	< 0.01 U
AOI_51	MW-0102-S2(25-26')	2/3/2011	PDB		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2(26.5-28')	2/3/2011	PDB		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2(28-29.5)	2/3/2011	PDB		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2(29.5-31')	2/3/2011	PDB		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2(31-32.5')	2/3/2011	PDB		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
AOI_51	MW-0102-S2(32.5-34')	2/3/2011	PDB		< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.005 U	< 0.002 U	< 0.01 U
		Drinking Water Criteria (MCL or Region 9)			**0.007**		**0.005**		**0.07**	**0.005**	**0.005**	**0.002**	**10**

NOTES:

LF - Low Flow Sampling Method
PDB - Passive Diffusion Bag Sampling Method
FD - Field Duplicate
mg/L- milligram per liter
U- Not detected above laboratory reporting limits
J - Estimated value
UJ - Not detected above laboratory reporting limits, value is estimated
MCL - Maximum Contaminant Levels

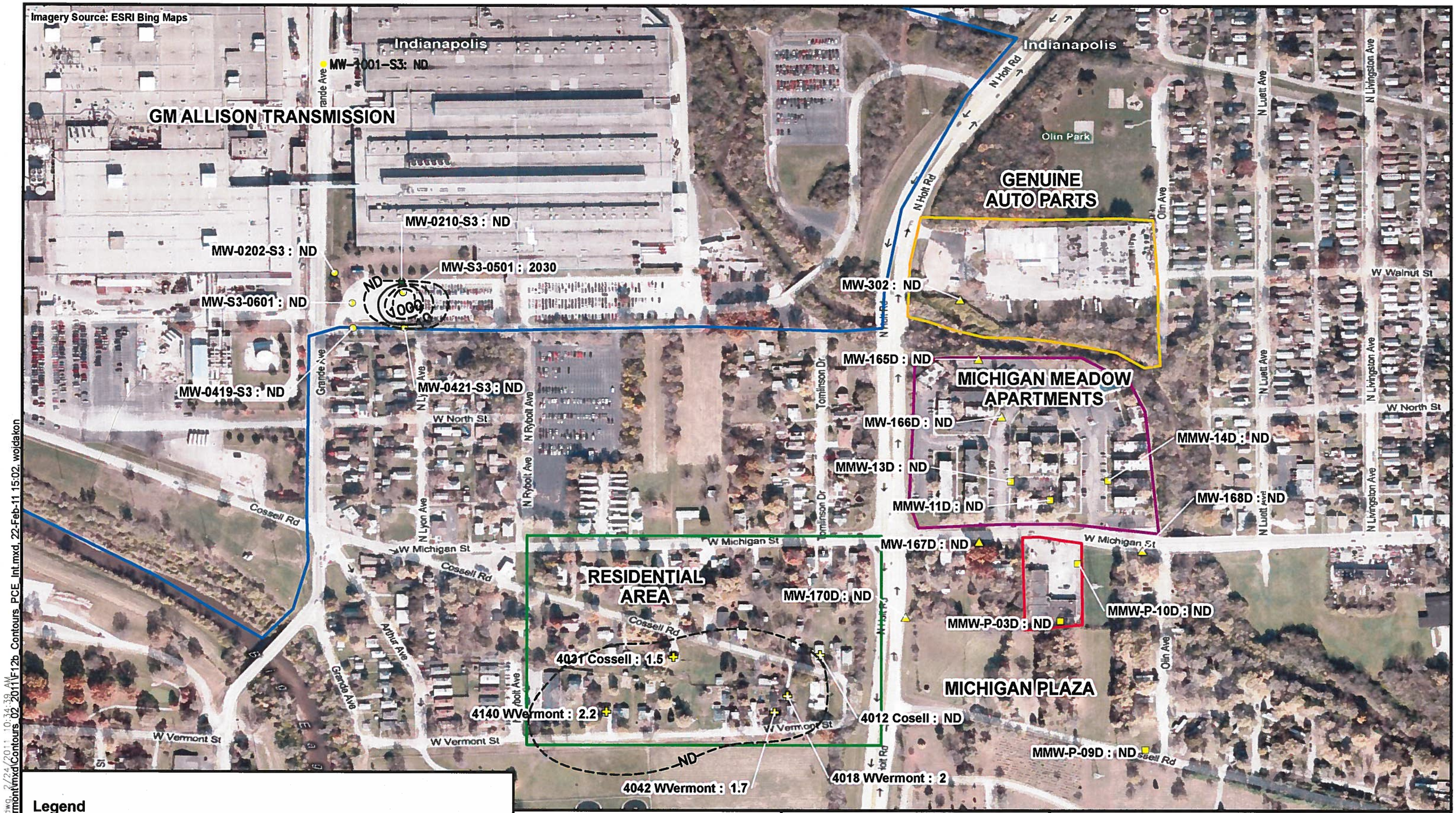


Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-09010-024
DCN: 816-2A-AHYW

Prepared By:
WESTON SOLUTIONS, INC.
750 E Bunker Ct. Suite 500
Vernon Hills, Illinois 60061

Figure 12a
PCE Concentration Contours Upper Water Bearing Zone
West Vermont Street Contamination
Speedway, Marion County, Indiana

File: D:\West_Vermont\mxd\Contours_02_2011\F12a_Contours_PCE_Upper.mxd, 22-Feb-11 14:27, wojdakon
J:\CA097\001\06810.dwg, 2/23/2011 3:09:00 PM

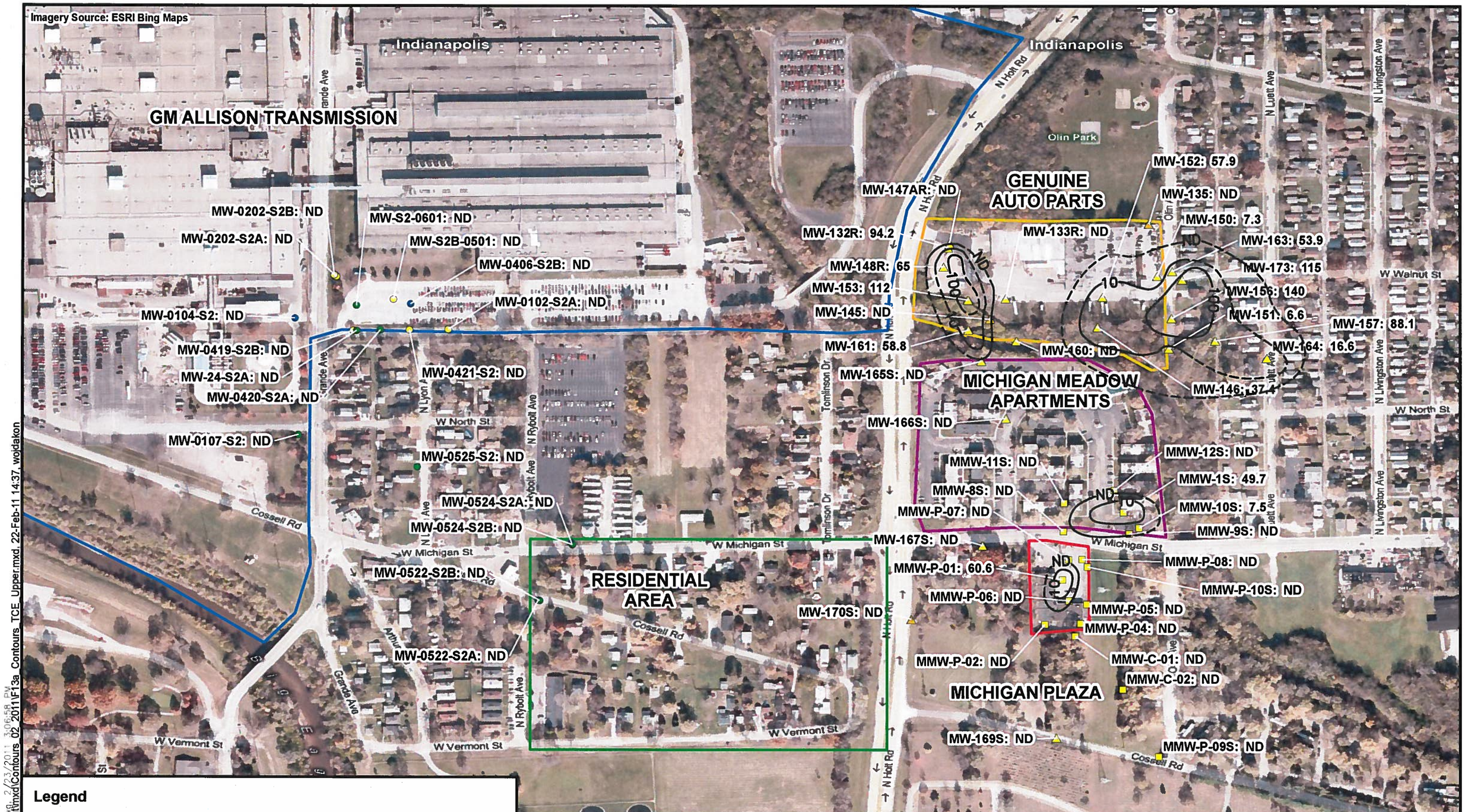


Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-09010-024
DCN: 816-2A-AHYW

Prepared By:
WESTON SOLUTIONS, INC.
750 E Bunker Ct. Suite 500
Vernon Hills, Illinois 60061

Figure 12b
PCE Concentration Contours Intermediate Water Bearing Zone
West Vermont Street Contamination
Speedway, Marion County, Indiana

File: D:\West_Vermont\mxd\Contours_02_2011\F12b_Contours_PCE_Int.mxd, 22-Feb-11 15:02, wojdakon



Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-09010-024
DCN: 816-2A-AHYW

Prepared By:
WESTON SOLUTIONS, INC.
750 E Bunker Ct. Suite 500
Vernon Hills, Illinois 60061

Figure 13a
TCE Concentration Contours Upper Water Bearing Zone
West Vermont Street Contamination
Speedway, Marion County, Indiana

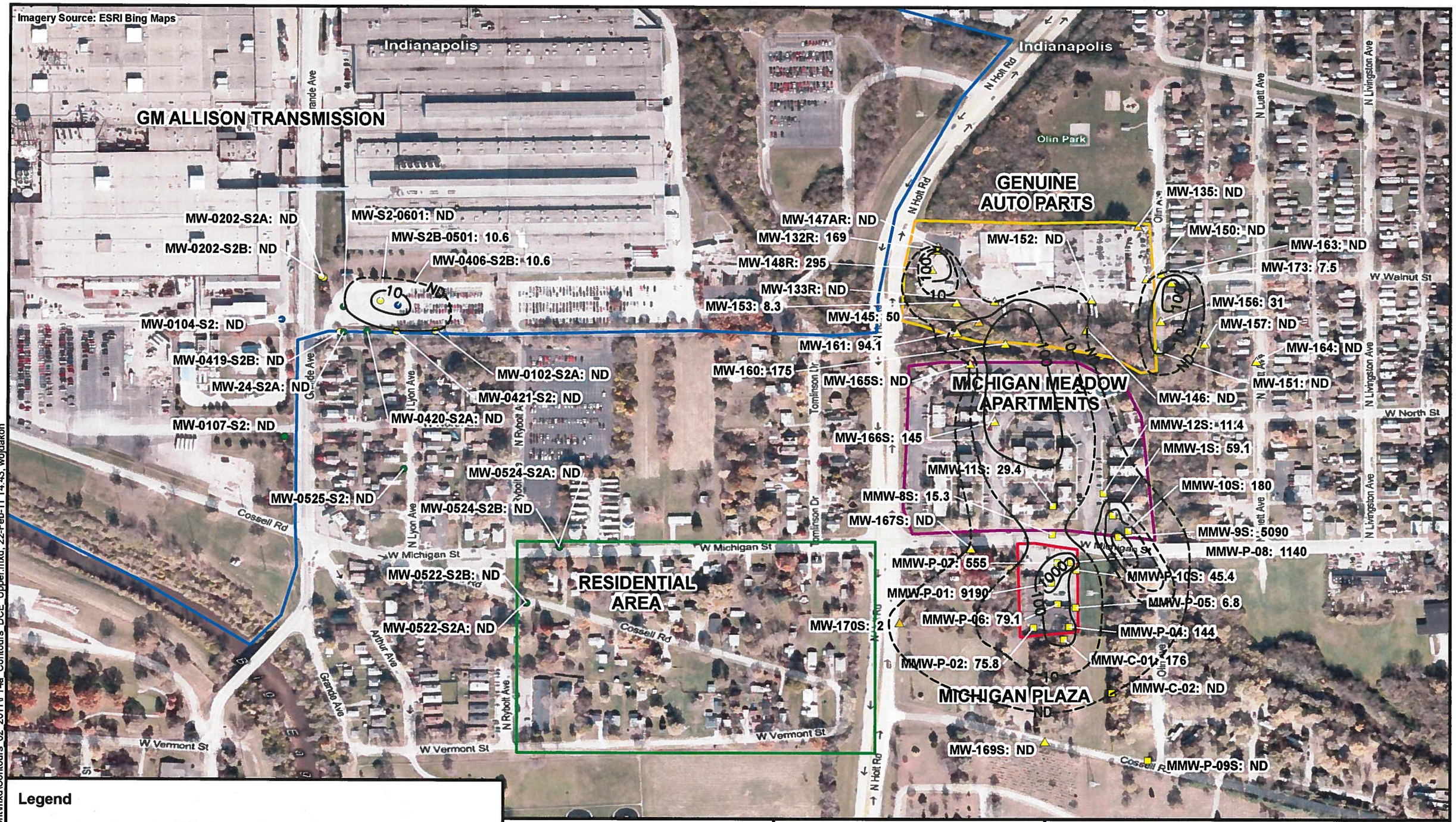
File: D:\West_Vermont\mxd\Contours_02_2011\F13a_Contours_TCE_Upper.mxd, 22-Feb-11 14:37, wojdakon

Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-09010-024
DCN: 816-2A-AHYW

Prepared By:
WESTON SOLUTIONS, INC.
750 E Bunker Ct. Suite 500
Vernon Hills, Illinois 60061

Figure 13b
TCE Concentration Contours Intermediate Water Bearing Zone
West Vermont Street Contamination
Speedway, Marion County, Indiana

File: D:\West_Vermont\mxd\Contours 02_2011\F13b_Contours_TCE_Int.mxd, 22-Feb-11 15:04, wojdakon
J:\CAD\23\00\06R10.dwg, 2/23/2011 3:18:58 PM

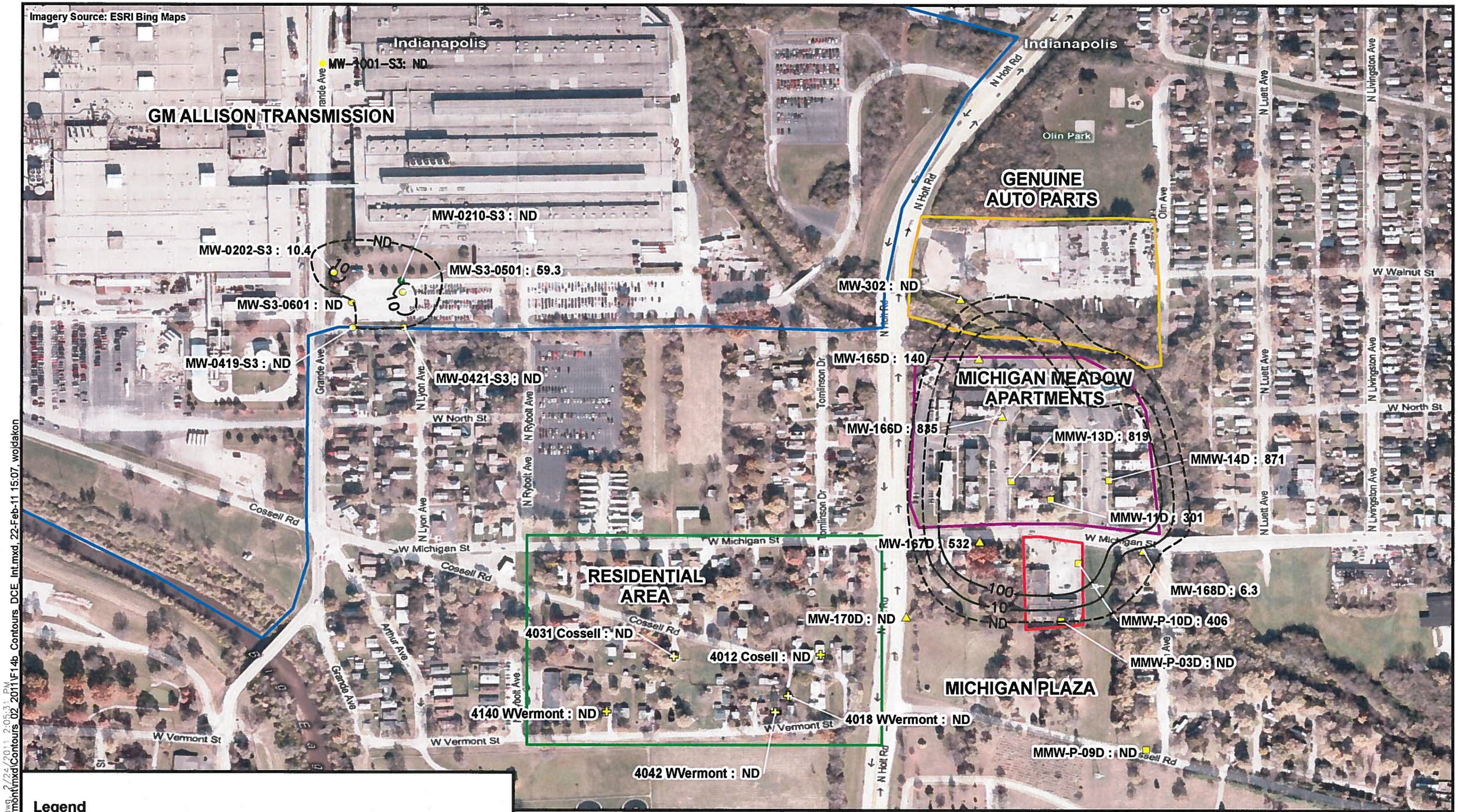


Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-09010-024
DCN: 816-2A-AHYW

Prepared By:
WESTON SOLUTIONS, INC.
750 E Bunker Ct. Suite 500
Vernon Hills, Illinois 60061

Figure 14a
DCE Concentration Contours Upper Water Bearing Zone
West Vermont Street Contamination
Speedway, Marion County, Indiana

File: D:\West_Vermont\mxd\Contours_02_2011\F14a_Contours_DCE_Upper.mxd, 22-Feb-11 14:43, wojdakon

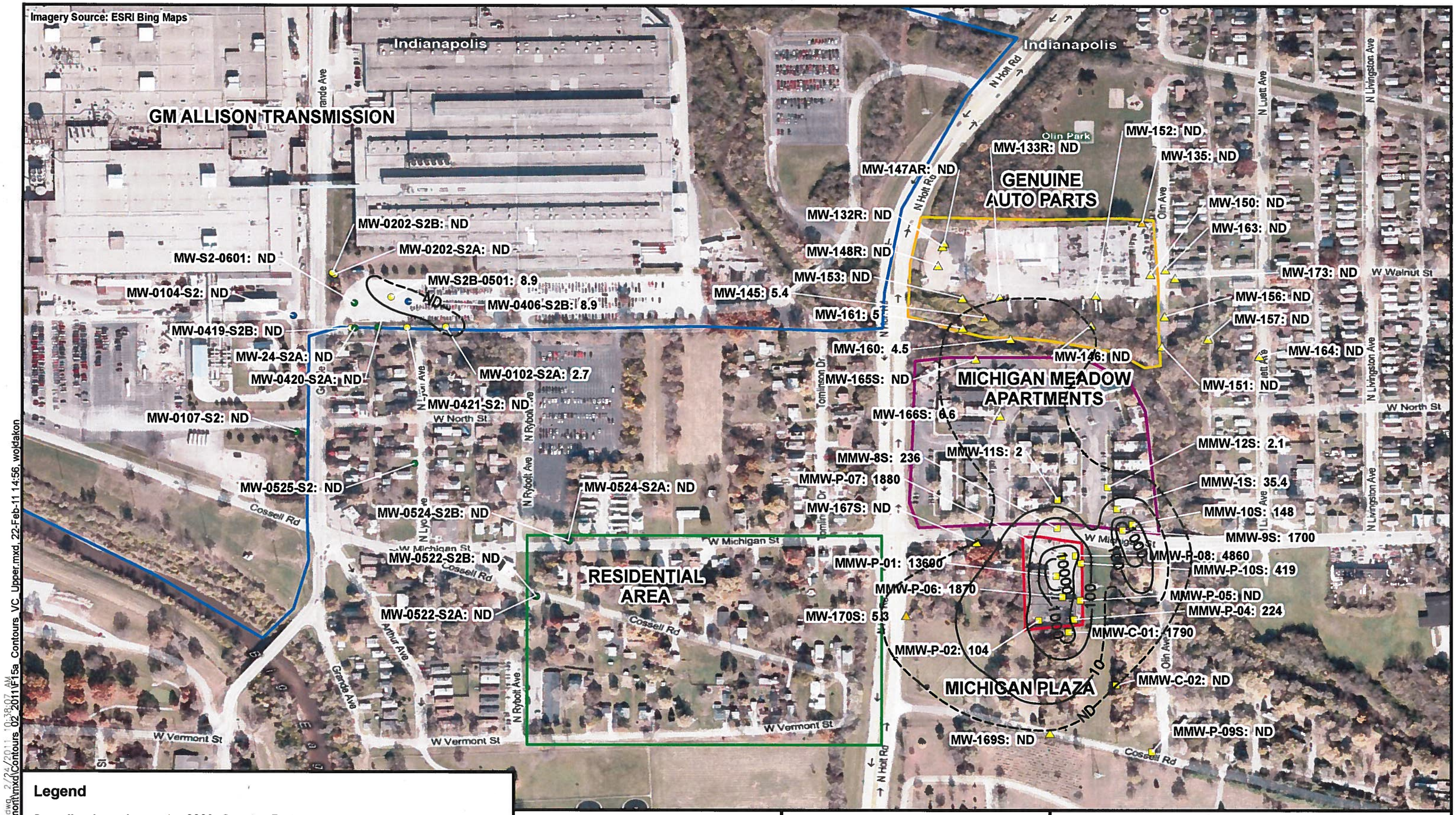


Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-09010-024
DCN: 816-2A-AHYW

Prepared By:
WESTON SOLUTIONS, INC.
750 E Bunker Ct. Suite 500
Vernon Hills, Illinois 60061

Figure 14b
DCE Concentration Contours Intermediate Water Bearing Zone
West Vermont Street Contamination
Speedway, Marion County, Indiana

File: D:\West_Vermont\mxd\Contours_02_2011\F14b_Contours_DCE_Int.mxd, 22-Feb-11 15:07, wojdakon



Legend

Sampling Locations

- 2006, GM
- 2007, GM
- 2010, GM
- 2009, Genuine Parts
- 2010, Genuine Parts
- 2010, Michigan Plaza

ND - Not Detected

0 350 Feet

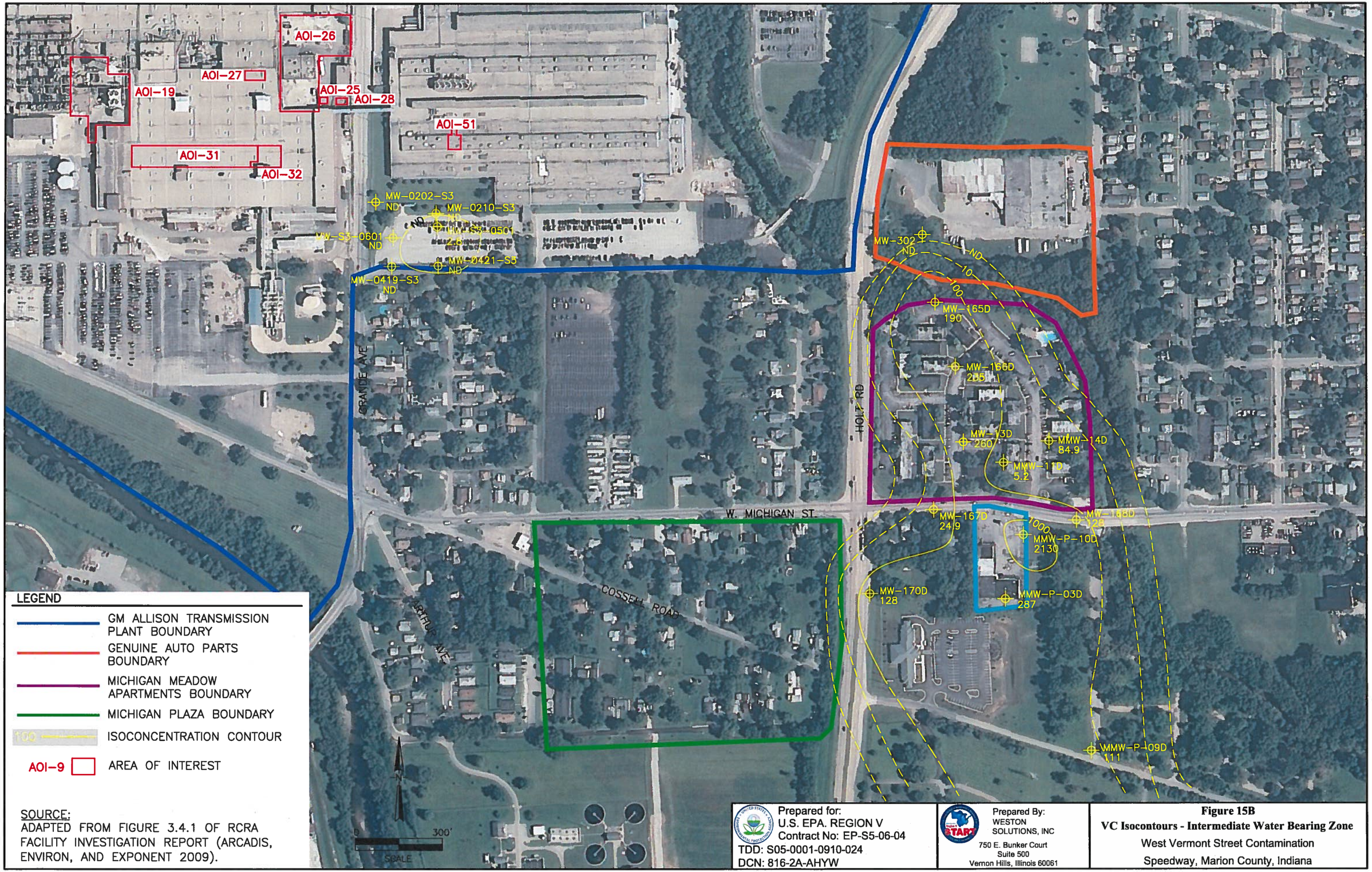
N

Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-09010-024
DCN: 816-2A-AHYW

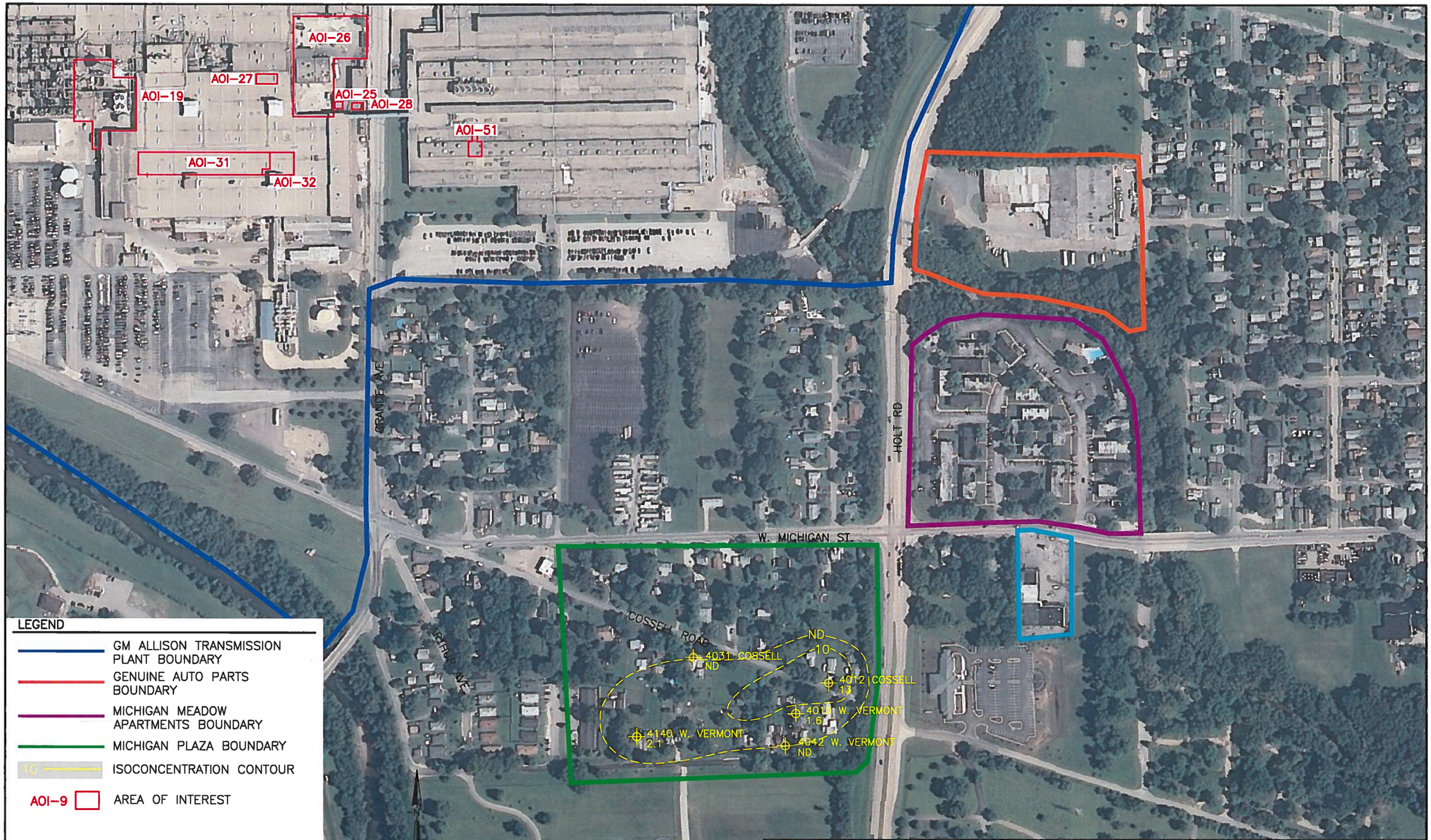
Prepared By:
WESTON SOLUTIONS, INC.
750 E Bunker Ct. Suite 500
Vernon Hills, Illinois 60061

Figure 15a
VC Concentration Contours Upper Water Bearing Zone
West Vermont Street Contamination
Speedway, Marion County, Indiana

File: D:\West Vermont\mxd\Contours_02_2011\F15a_Contours_VC_Upper.mxd, 22-Feb-11 14:56, woldakon
J:\CA093\000\06R10.dwg, 2/24/2011 10:38:07 AM



J:\CAD93\000\06810.dwg, 3/24/2011 2:12:12 PM



Prepared for:
U.S. EPA. REGION V
Contract No: EP-S5-06-04
TDD: S05-0001-0910-024
DCN: 816-2A-AHYW

Prepared By:
WESTON SOLUTIONS, INC
750 E. Bunker Court
Suite 500
Vernon Hills, Illinois 60061

Figure 15C
VC Isocontours Residential Area - Intermediate Water Bearing Zone
West Vermont Street Contamination
Speedway, Marion County, Indiana

J:\CAD93\000\06810.dwg, 3/31/2011 2:15:38 PM