MWH

BUILDING A BETTER WORLD

GROUNDWATER MONITORING REPORT
DECEMBER 2009

GENERAL ELECTRIC PUERTO RICO INVESTMENT, INC.
PATILLAS, PUERTO RICO

Prepared For:

General Electric Energy

Prepared By:

MWH Americas, Inc.

January 2010

GROUNDWATER MONITORING REPORT
DECEMBER 2009
GENERAL ELECTRIC PUERTO RICO INVESTMENT, INC.
PATILLAS, PUERTO RICO

FOR

General Electric Energy

Schenectady, New York

United States

Prepared By _____ January 29, 2010

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ACRONYMS AND ABBREVIATIONS

1,1,1-TCA	1,1,1-Trichloroethane
1,1,2-TCA	1,1,2-Trichloroethane
1,1-DCA	1,1-Dichloroethane
1,1-DCE	1,1-Dichloroethene
1,2-DCA	1,2-Dichloroethane
amsl	above mean sea level
COC	Constituent of concern
DO	dissolved oxygen
ft/ft	feet per foot
GE	General Electric Energy
HCL	hydrochloric acid
IDW	Investigation derived waste
MCL	Maximum Contaminant Level
ORP	oxidation reduction potential
PPE	personal protection equipment
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SOP	standard operating procedure
SWMU	Solid Waste Management Unit
VOCs	volatile organic compounds
µg/l	micrograms per liter
USEPA	United State Environmental Protection Agency

1.0 INTRODUCTION

This Groundwater Monitoring Report describes the activities performed to evaluate groundwater quality beneath and downgradient of the General Electric (GE) Puerto Rico Investment facility (Site) located in Patillas, Puerto Rico. During this effort, MWH performed the following activities:

- Measured groundwater elevations from the existing onsite and accessible offsite monitoring wells.
- Collect groundwater samples for analysis to provide recent groundwater quality data onsite and offsite.

These activities were performed in accordance with the *Groundwater Modeling Work Plan* (MWH, December 2007), which was approved by the U.S. Environmental Protection Agency (USEPA) in March 2009. This quarterly groundwater monitoring event (December 2009) is the third of four events associated with work plan. The two previous events were performed in June and September 2009. After completing four quarters of groundwater monitoring, GE will evaluate the need for future actions and propose a long-term sampling program if deemed warranted.

In addition, this document provides a Progress Report for the Site in accordance with Site's Administrative Order on Consent (March 29, 1988).

2.0 PROJECT BACKGROUND

The Site is located on the southeastern coast of Puerto Rico at Road #3, Km 122.9, Patillas, Puerto Rico. The Site location is shown on ***Figure 1***. The Site covers approximately 7.8 acres. From November 1974 to March 1987, GE (operating as Caribe General Electric Products) manufactured and assembled electro-mechanical products. A French Sump was constructed at the facility in 1977 and was used for waste disposal until 1980. The Site was idle from 1987 to 1993, when no manufacturing operations were conducted. Since 1993, GE has used the facility for warehousing and assembly operations under the current name of GE Puerto Rico Investment, Inc.

In October 1990, soils in and adjacent to the former French Sump were excavated, stabilized, and shipped to a Resource Conservation and Recovery Act (RCRA)-approved landfill. The location of the sump is shown on ***Figure 2.*** The USEPA accepted the closure of the sump as complete in March 1991. The impacted groundwater that is the subject of this investigation is associated with the former French Sump and extends south-southwest from the facility to the flood plain of the Rio Grande de Patillas.

Investigation of the groundwater impacts in the area of the French Sump began in 1989 as part of a RCRA Facility Investigation (RFI). Eleven onsite monitoring wells were installed adjacent to and downgradient of the former French Sump (see ***Figure 2***). Five monitoring wells were also installed offsite to assess groundwater quality. Of the total 16 wells, one onsite well (P-4A) was abandoned; one offsite well (P-12) cannot be located and was presumably destroyed; and four offsite wells (P-13S, P-13D, P-14S, and P-14D) have had their access permission rescinded by the property owner.

The *RFI Report* (SEC, 1991) was submitted to the USEPA in 1991. Quarterly groundwater sampling was conducted from 1991 through 1999. Volatile organic compounds (VOCs), namely 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-dichloroethene (1,1-DCE), were identified in the RFI Report as the constituents of concern (COCs) in groundwater within the alluvial/colluvial aquifer beneath the Site. The extent of 1,1,1-TCA does not extend offsite. However, the extent of 1,1-DCE impacted groundwater extends offsite to the south-southwest, which is generally consistent with the direction of apparent groundwater flow.

In 2003, GE installed six additional monitoring wells offsite to determine the extent of the 1,1-DCE in groundwater. The results of this investigation were provided to USEPA in a

Supplemental RFI Report (EarthTech, 2005). USEPA's response to this *Supplemental RFI Report* stated that the information was not sufficient to determine the extent of impacted groundwater and therefore the CA-750 determination could not be completed. At the time of the Supplemental RFI, the farthest downgradient wells (P-13S/D and P-14S/D) had not been sampled for nine years, and access to these wells had been rescinded. From 1991 through 1996, these wells were sampled eight times and VOCs were not detected.

In 2006, GE installed an additional monitoring well cluster (P-20S and P-20D) to further delineate the extent of 1,1-DCE in groundwater. Analytical results from the shallow well (P-20S) did not show the presence of 1,1-DCE. However, groundwater samples from the deeper well (P-20D) indicated 1,1-DCE downgradient and offsite at a concentration of 37 to 44 micrograms per liter (µg/l), which is greater than its Maximum Contaminant Level (MCL) of 7 µg/l.

Based on these results, the USEPA requested that GE pursue access to additional downgradient properties to install monitoring wells to further define the extent of the 1,1-DCE in groundwater. GE intended to install these proposed wells downgradient of P-20S/D and upgradient of P-13S/D and P-14S/S. Although numerous attempts were made by GE, access was not granted to the properties, and the wells could not be installed. As a result, GE and USEPA agreed that the project should move forward to estimate the extent of 1,1-DCE in groundwater without the use of these wells.

In June 2009, GE performed a groundwater monitoring event, and in July 2009, GE performed fate and transport modeling to estimate the extent of 1,1-DCE in groundwater. The draft output of the model, which contained the necessary information to make the CA-750 determination, was provided to EPA in September 2009. The model estimated that 1,1-DCE may have reached the Rio Grande de Patillas at a concentration of 23 µg/L. This concentration is less than 10 times the MCL for 1,1-DCE (7 µg/L) and is considered an insignificant discharge to a surface water by USEPA.

Subsequent to the fate and transport modeling and at the request of the USEPA, GE performed two additional groundwater monitoring events (September 2009 and December 2009). The results of the September 2009 monitoring event were submitted to USEPA in November 2009. This report summarizes the field activities and results of the December 2009 monitoring event.

3.0 FIELD ACTIVITIES

The following field activities were performed during this monitoring event:

- Measuring groundwater elevations from onsite and accessible offsite monitoring wells.
- Collecting groundwater samples from monitoring wells for laboratory analysis.

These activities were performed by MWH during the first week of December 2009. The procedures used during these activities are described in the following sections.

3.1 DEPTH TO GROUNDWATER MEASUREMENTS

Depth to groundwater measurements were collected from onsite and accessible offsite monitoring wells. Offsite wells P-13S, P-13D, P-14S, and P-14D were not measured because the property owner would not allow access to the wells.

Groundwater depths were measured by using a decontaminated water-level meter to record the depth-to-water below a surveyed reference point (top of well casing). The water level meter was slowly lowered into the monitoring well until the meter was activated (as indicated by an audible tone). The depth-to-water reading was then measured at 30 second intervals until two consecutive readings were identical. This measurement was then recorded in the field notebook.

3.2 GROUNDWATER SAMPLING PROCEDURES AND ANALYSIS

The following 12 monitoring wells were sampled during this field event: P-7, P-7A, P-10A, P-15DD, P-16S, P-17D, P-18S, P-18D, P-19S, P-19D, P-20S, and P-20D. Well locations are indicated on ***Figure 2***. Although planned for sampling, monitoring well P-8 did not contain sufficient water; and therefore, a groundwater sample could not be collected from this well.

The groundwater samples were collected in accordance with the USEA Region II *Groundwater Sampling Procedure – Low Stress (Low Flow) Purging and Sampling*. For each monitoring well, the following sequence of activities was performed:

- The depth-to-water was measured in the monitoring well.

- The well was then purged using a submersible bladder pump with a new disposable bladder and unused, disposable discharge tubing.

- The following indicator parameters were measured using an in-line water quality meter: pH, specific conductivity, temperature, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP). Parameters were recorded every three to five minutes until they had stabilized for three consecutive readings.

- The depth-to-water in the monitoring well was monitored to ensure that drawdown did not exceed 0.3 feet and the water level in the well was stable prior to sampling.

- After the parameters had stabilized, the in-line water quality measuring device was disconnected and the groundwater sample was collected directly from the discharge tubing.

- Groundwater samples were collected in laboratory-supplied vials, which were pre-preserved with hydrochloric acid (HCl).

Field sampling records for each well are presented in ***Appendix A***. The sample bottles were labeled with date, time, sample identification, analytical parameters, and the sampler's initials, and immediately placed on ice in a cooler. The cooler was maintained under chain-of-custody until arrival at the laboratory.

The following quality assurance/quality control (QA/QC) samples were collected during this event:

- Two field duplicates samples:

  Dup-01 – duplicate of P-16S
  Dup-02 – duplicate of P-19S

- Two equipment blank samples collected from the submersible sampling pump:

  EB-01
  EB-02

- One matrix spike/matrix spike duplicate (MS/MSD) from well P-19D

- One trip blank

Groundwater and QA/QC samples were analyzed for VOCs by USEPA Method SW846 8260B for the Appendix IX list of compounds by Lancaster Laboratories, Inc. of Lancaster,

Pennsylvania. The groundwater analytical data were certified by a Puerto Rican Chemist and validated in accordance with the USEPA Region II Standard Operating Procedure (SOP) HW-6 – CLP Organics Data Review and Preliminary Review. The data were found to be acceptable for use without significant qualification. The complete analytical data package is presented in ***Appendix B***.

Groundwater samples were collected using a bladder pump and dedicated, disposable tubing. The bladder pump was decontaminated before and between each use with an Alconox® wash and distilled water rinse. A new bladder and new tubing were used for each well.

3.3 INVESTIGATION DERIVED WASTE MANAGEMENT

Purge water and decontamination liquids were collected in 5-gallon buckets and transferred to a 55-gallon drum located onsite. The drum of investigation derived waste (IDW) was staged at a secure area on the GE facility. GE plans to dispose of the IDW as non-hazardous waste using Clean Harbors Caribe, Inc. All used personal protective equipment (PPE) was collected in trash bags and disposed of as general refuse.

4.0 GROUNDWATER MONITORING RESULTS

4.1 GROUNDWATER ELEVATIONS

The depth to groundwater measurements and groundwater elevations for December 2009 are presented in ***Table 1***. Groundwater is generally encountered 6 to 21 feet below ground surface, or 22 to 57 feet above mean sea level (amsl). Groundwater elevation contours for the shallow and deep aquifers are presented in ***Figure 3a*** and ***Figure 3b***, respectively. Based on these contours the groundwater flow direction is generally southwest, towards the Quebrada Mamey and the Rio Grande de Patillas. The horizontal gradient for the shallow aquifer onsite is 0.024 vertical feet per horizontal foot (ft/ft). The horizontal gradient for the deep aquifer offsite is 0.011 ft/ft. The vertical gradient between these two aquifers is approximately 0.123 ft/ft downward onsite and approximately 0.035 ft/ft downward offsite.

4.2 GROUNDWATER SAMPLE RESULTS

Groundwater sample results are presented in ***Table 2*** with the detected sample results posted in ***Figure 4***. The following table summarizes the results for the compounds that were detected during the December 2009 sampling event (12 samples were collected). Concentrations are reported in micrograms per liter (µg/L).

Compound	Number of Detections	Lowest Detected Result	Highest Detected Result	MCL	# Detections Above MCL
1,1,1-Trichloroethane (1,1,1-TCA)	3	1	5	200	0
1,1,2-Trichloroethane (1,1,2-TCA)	0	N/A	N/A	5	0
1,1-Dichloroethane (1,1-DCA)	6	2	21	Not Available	-
1,1-Dichloroethene (1,1-DCE)	11	3	900	7	7
1,2-Dichloroethane (1,2-DCA)	1	2	2	5	0
Chloroform	4	0.9	1	70	0
Trichlorofluoromethane	1	3	3	70	0

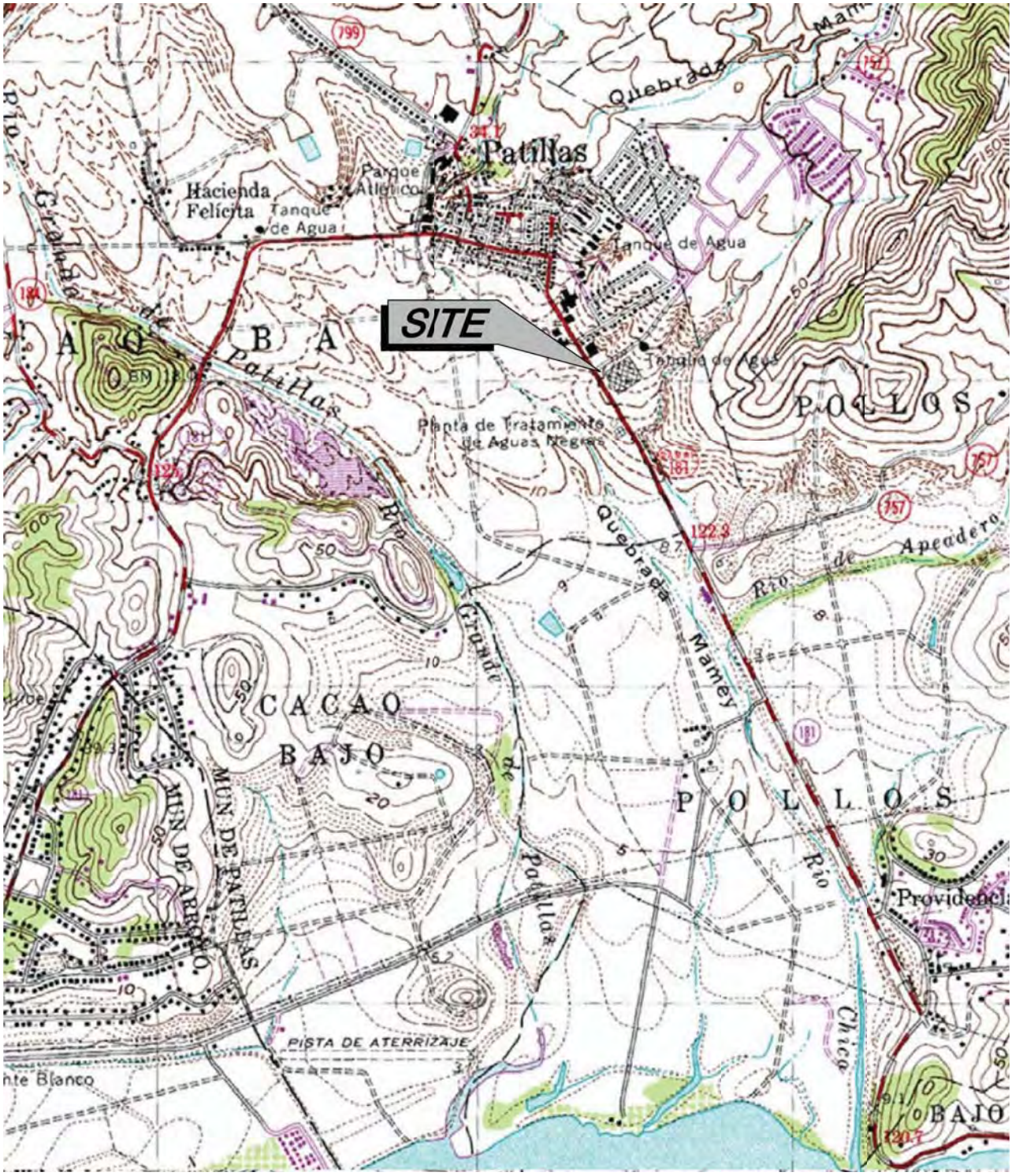
As shown on the summary table, 1,1-DCA and 1,1-DCE were the most commonly detected VOCs, with 1,1-DCE the only compound exceeding the MCL. The highest VOC concentrations (primarily 1,1-DCA and 1,1-DCE) were detected in the sample collected from well P-10A, which is located onsite and downgradient of the former French sump. The 1,1-DCE concentration for the farthest downgradient monitoring well sampled (MW-20D, located approximately 1,300 feet southwest of the former French sump) was 22 µg/L. The approximate extent of 1,1-DCE in groundwater (based on the recent sample results) is presented in ***Figure 5***. As shown in this figure, the extent of 1,1-DCE in the shallow zone is MW-20S; for the deep zone, the extent is not defined by the downgradient monitoring wells. As noted previously, wells located farther downgradient (P-13S/D and P-14S/D, as shown on ***Figure 2***) could not be sampled because the property owner denied access to the wells. From 1991 through 1996, these wells did not contain VOCs at detectable levels.

The historical sample results for constituents of concern in groundwater within the alluvial/colluvial aquifer are presented in ***Table 3***. In general, the results obtained during the December 2009 monitoring event are consistent with the historical results.

5.0 PROGRESS REPORTING

Appendix C contains the Progress Report for this reporting period (January 6 through January 29, 2010). The Progress Report was prepared in accordance with Section V.C. of the Site's Administrative Order on Consent (Order) dated March 29, 1988, and approved revisions (January 26, 2010). As outlined in Section V.A.2.a of the Order, the following sections are included in ***Appendix C***.

FIGURES



Source:
U.S.G.S. 7.5 minute quadrangle of Patillas, Puerto Rico, Dated 1977, photorevised 1982.

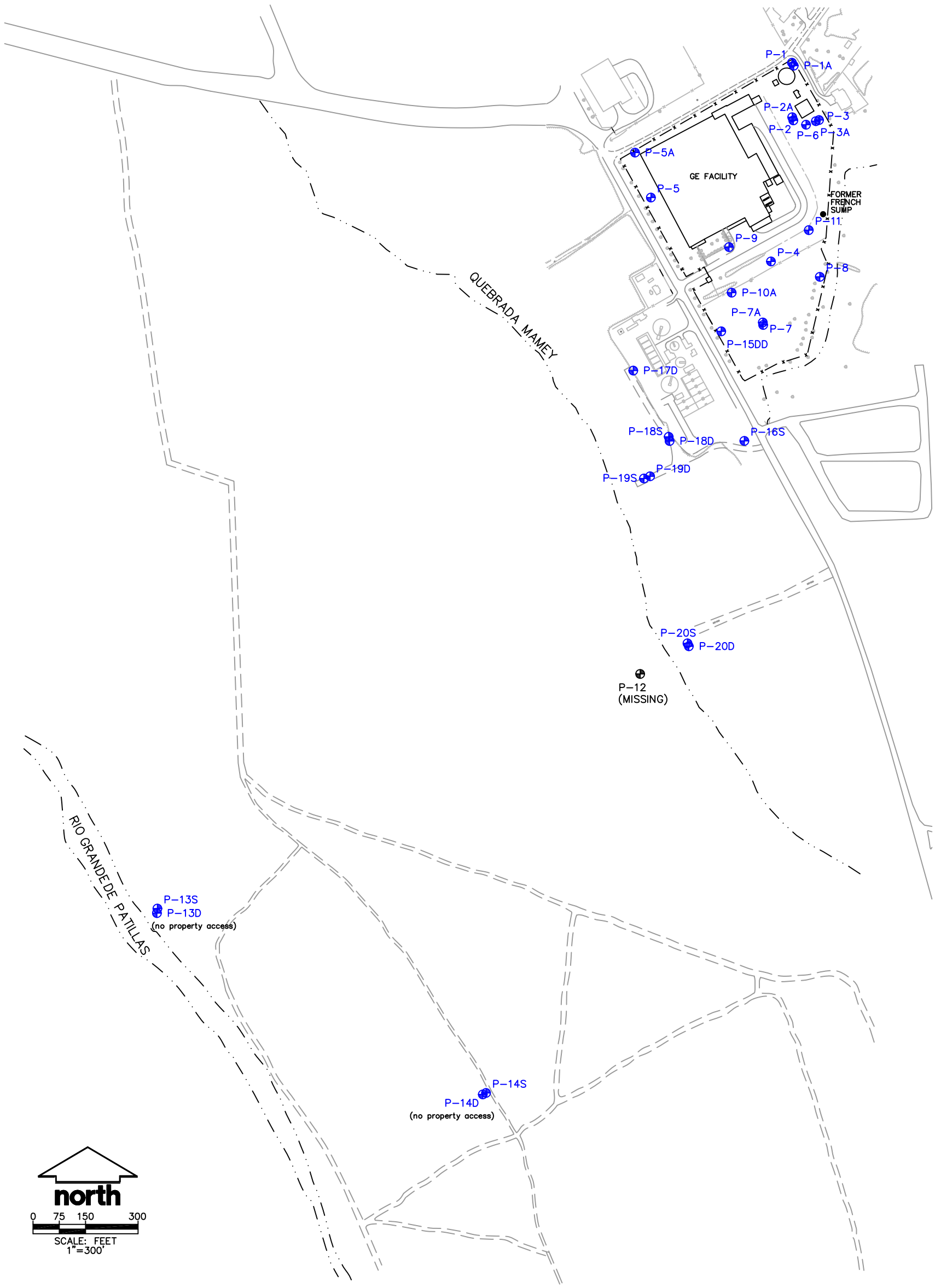
north

GE Puerto Rico Investment Inc.
Patillas, Puerto Rico

Site Location Map

Figure 1

MWH



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL

GE Puerto Rico Investment, Inc.
Patillas, Puerto Rico

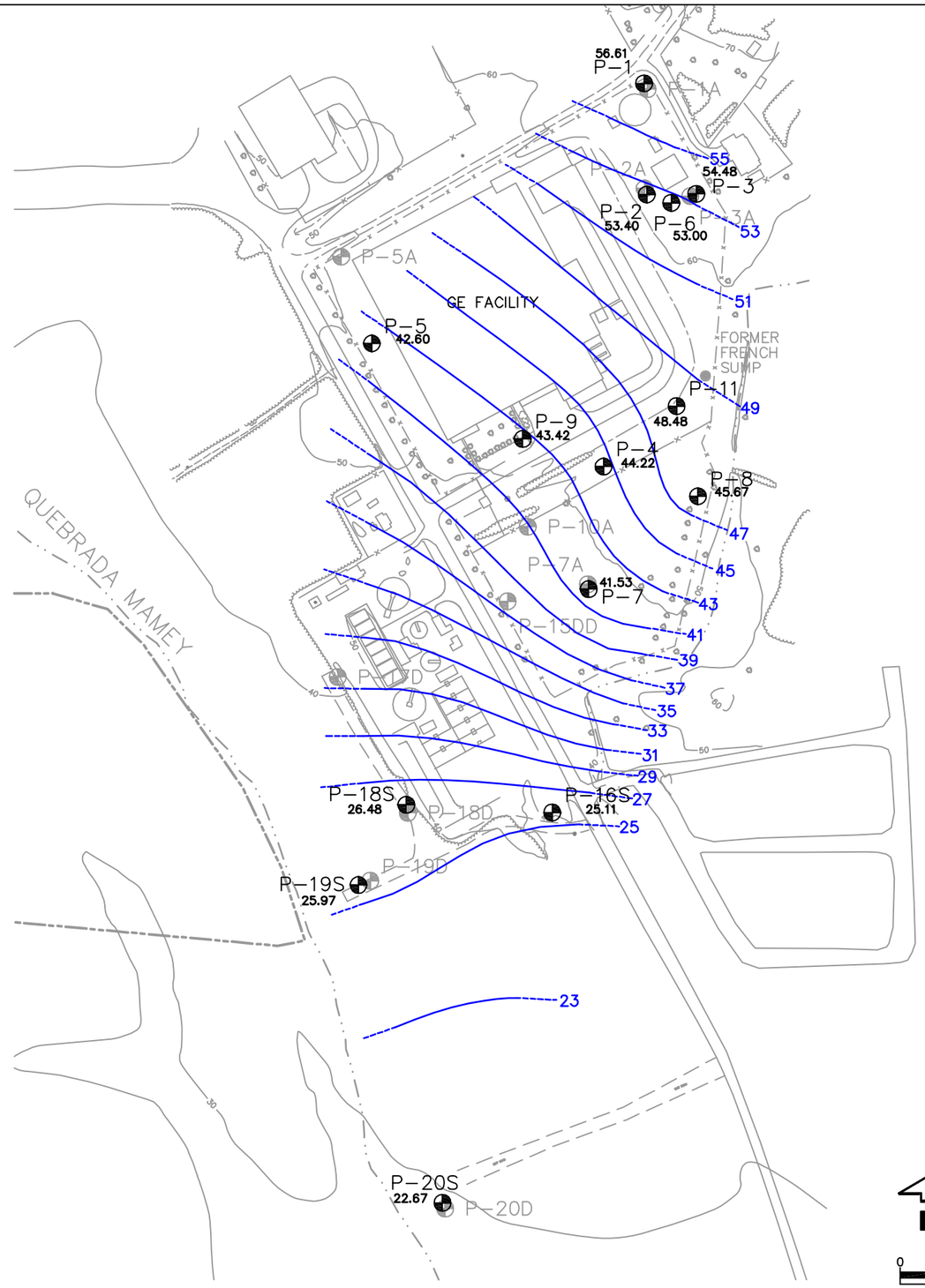
Site Map

FIGURE 2

MWH

Drawn By & Date: BRT, 6/5/09 | Approved By & Date: BRT | Revised By & Date: | Approved By & Date:

J:\Jobs\01a_400 General Electric Energy\72 - PATILLAS Puerto Rico\05 - CADD\CADD - NEW Basemap\Patillas Basemap 6-05-09.dwg Aug/13/09



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT USED FOR CONTOURING)
- MONITORING WELL
- 23 — EQUIPOTENTIAL CONTOUR, DASHED WHERE INFERRED
- 21.87 — WATER TABLE ELEVATION (FEET ABOVE SEA LEVEL)

NOTES:

1. CONTOUR INTERVAL = 2 FEET

General Electric Puerto Rico Investment
Patillas, Puerto Rico

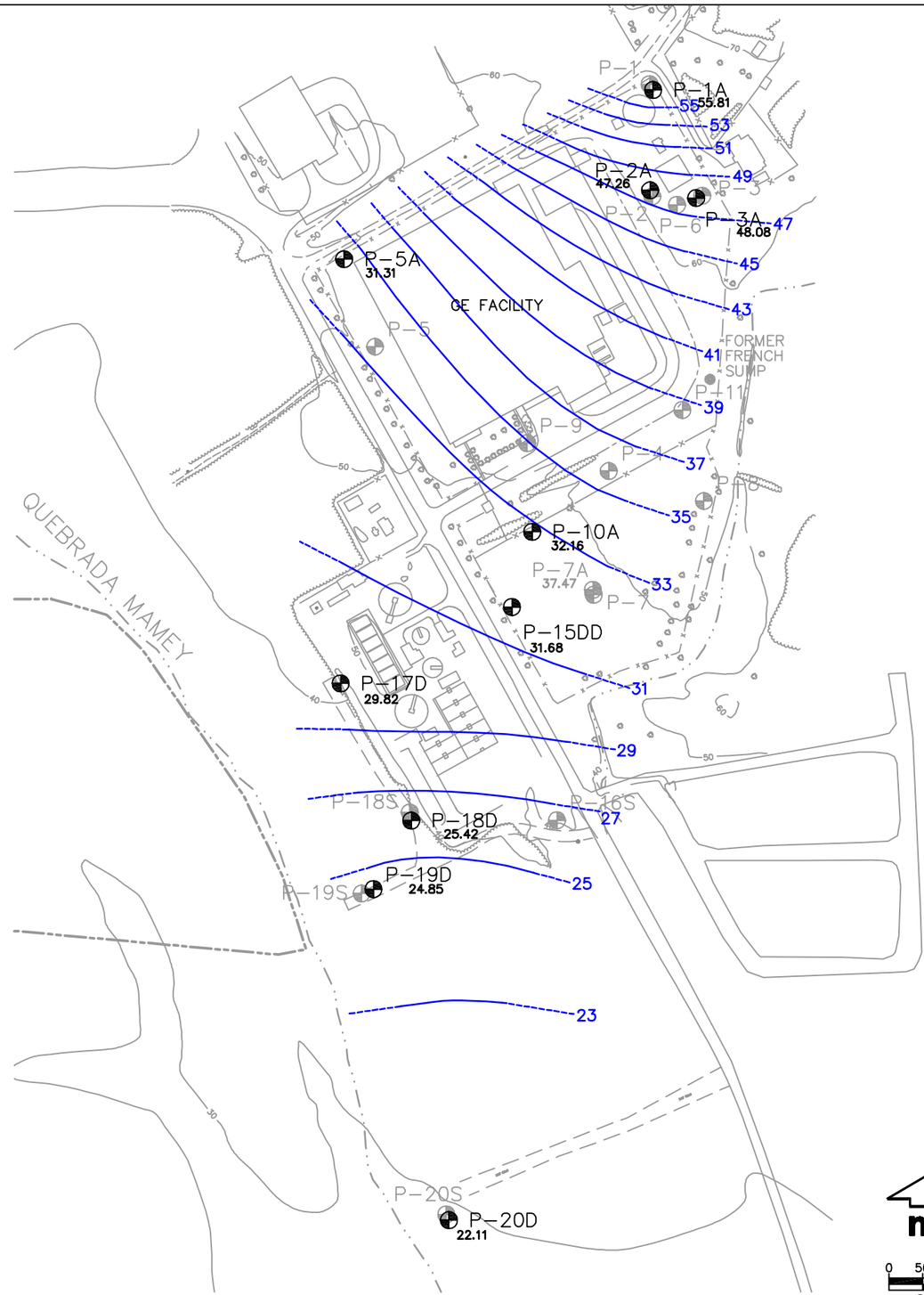
Shallow Groundwater Surface Map
December 2009

FIGURE 3a

MWH

Drawn By & Date: DM 7/15/09 | Approved By & Date: | Revised By & Date: DTM 10/21/09 | Approved By & Date:

J:\01a_400 General Electric Energy\72 - PATILLAS Puerto Rico\05 - CADD\Quarterly GW Mon\3 - Dec 09\Patillas GW - Shallow - Dec 2009.dwg Jan/21/10



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT USED FOR CONTOURING)
- MONITORING WELL
- 23 — EQUIPOTENTIAL CONTOUR, DASHED WHERE INFERRED
- 21.71 — WATER TABLE ELEVATION (FEET ABOVE SEA LEVEL)

NOTES:

1. CONTOUR INTERVAL = 2 FEET
2. WATER LEVEL AT P-7A WAS ANOMALOUS, AND THEREFORE NOT USED

north

0 50 100 200

SCALE: FEET
1"=200'

General Electric Puerto Rico Investment
Patillas, Puerto Rico

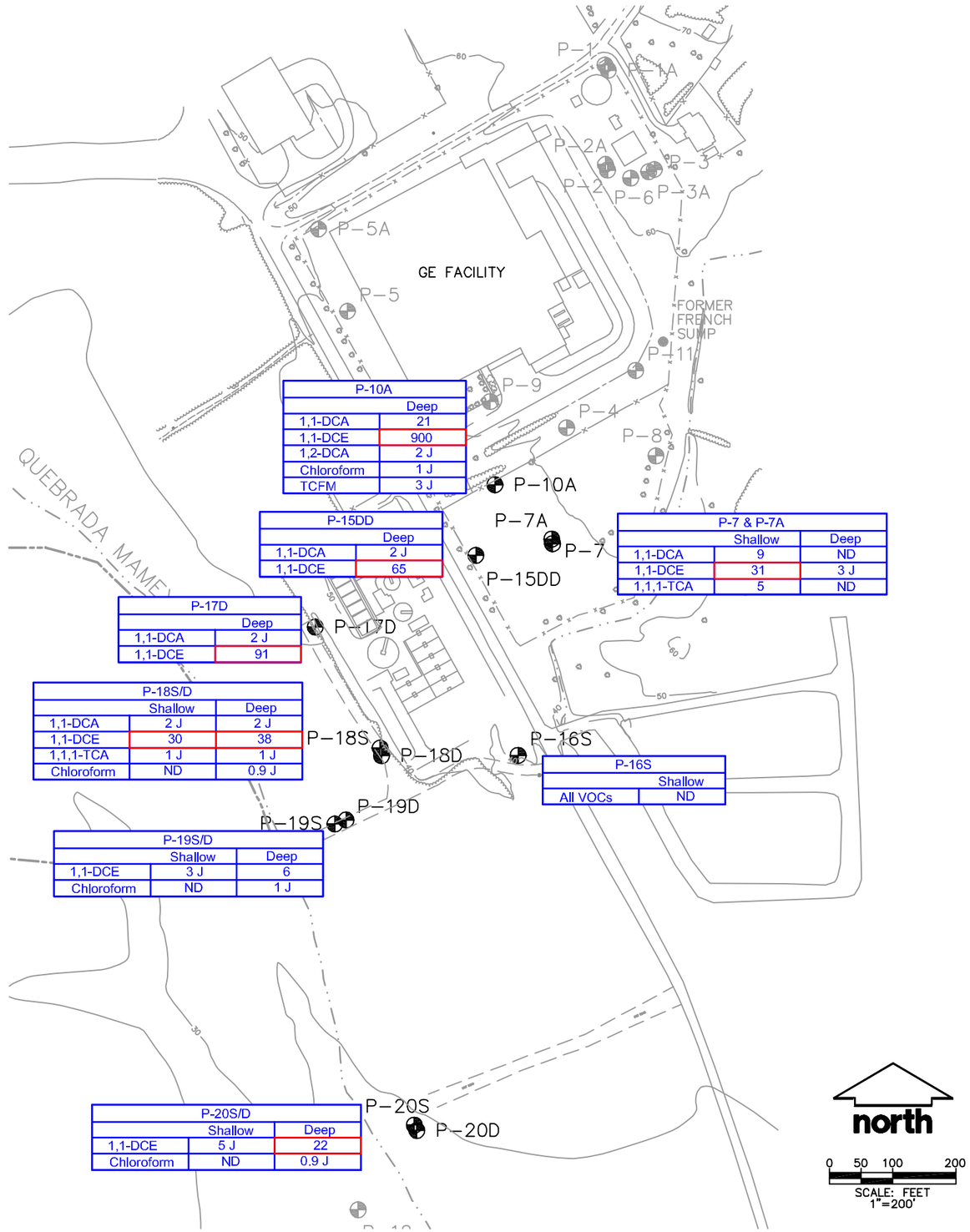
Deep Groundwater Surface Map
December 2009

FIGURE 3b

MWH

Drawn By & Date: DM 7/15/09 | Approved By & Date: | Revised By & Date: ATF 10/26/09 | Approved By & Date:

J:\01a_400 General Electric Energy\Y2 - PATILLAS Puerto Rico\05 - CADD\Quarterly GW Mon\3 - Dec 09\Patillas GW - Deep - Dec 2009.dwg Jan/21/10



P-10A	
	Deep
1,1-DCA	21
1,1-DCE	900
1,2-DCA	2 J
Chloroform	1 J
TCFM	3 J

P-15DD	
	Deep
1,1-DCA	2 J
1,1-DCE	65

P-7 & P-7A		
	Shallow	Deep
1,1-DCA	9	ND
1,1-DCE	31	3 J
1,1,1-TCA	5	ND

P-17D	
	Deep
1,1-DCA	2 J
1,1-DCE	91

P-18S/D		
	Shallow	Deep
1,1-DCA	2 J	2 J
1,1-DCE	30	38
1,1,1-TCA	1 J	1 J
Chloroform	ND	0.9 J

P-16S	
	Shallow
All VOCs	ND

P-19S/D		
	Shallow	Deep
1,1-DCE	3 J	6
Chloroform	ND	1 J

P-20S/D		
	Shallow	Deep
1,1-DCE	5 J	22
Chloroform	ND	0.9 J

LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT SAMPLED)
- MONITORING WELL (SAMPLED)

NOTES:

Results are reported in micrograms per liter (ug/L).

Shallow – The well is screened in the upper portion of the alluvium/colluvium aquifer.
Deep – The well is screened in the lower portion of the alluvium/colluvium aquifer.

	Compound	MCL
1,1,1–TCA	1,1,1–Trichloroethane	200
1,1,2–TCA	1,1,2–Trichloroethane	5
1,1–DCA	1,1–Dichloroethane	NA
1,1–DCE	1,1–Dichloroethene	7
1,2–DCA	1,2–Dichloroethane	5
	Chloroform	80
TCFM	Trichlorofluoromethane	NA

Sample Results that exceed MCLs are boxed in RED.

General Electric Puerto Rico Investment
Patillas, Puerto Rico

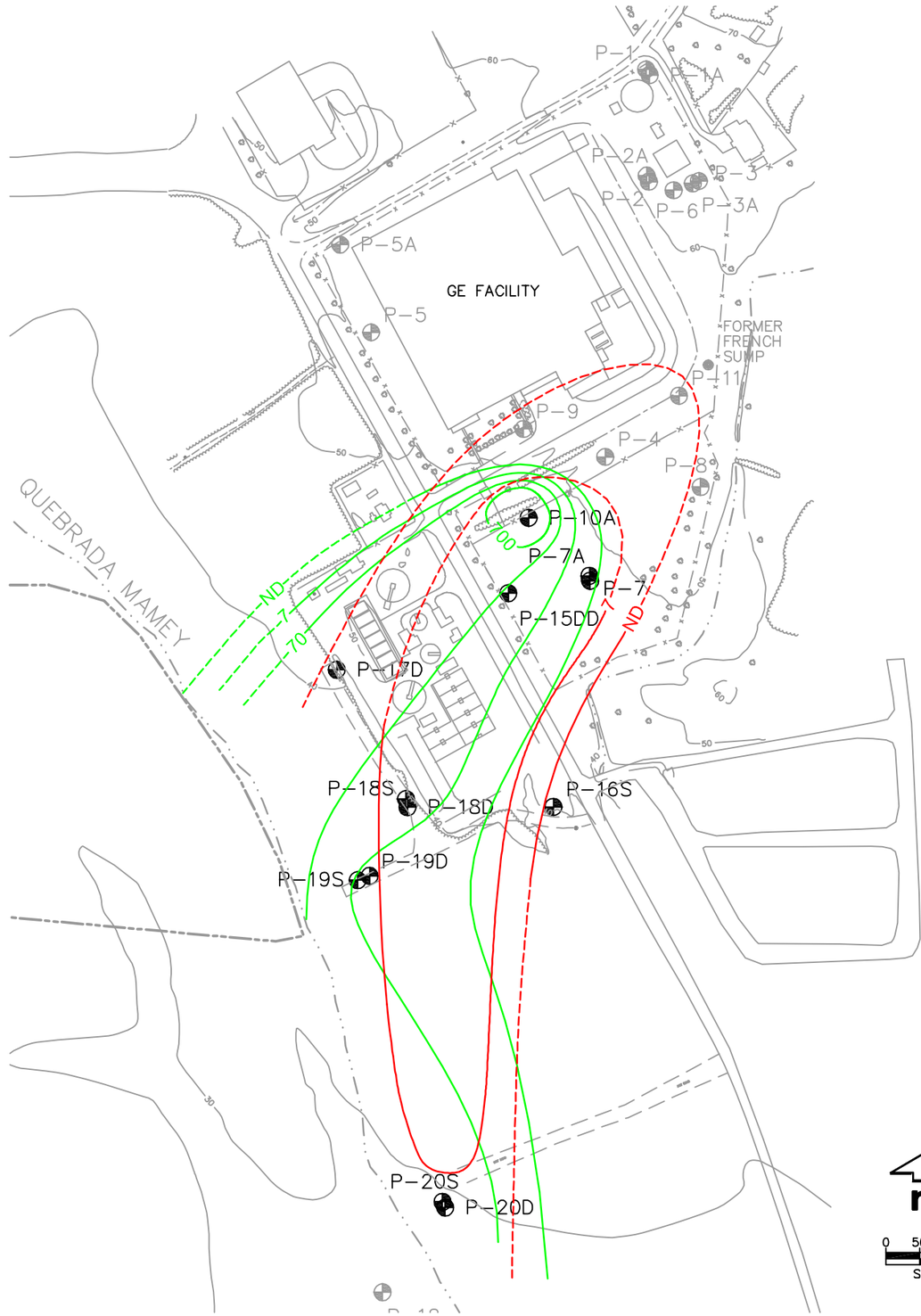
Groundwater Sample Results
December 2009

FIGURE 4

MWH

Drawn By & Date: BRT 12/28/09 | Approved By & Date: BRT | Revised By & Date: -- | Approved By & Date: BRT

J:\01a 400 General Electric Energy\72 – PATILLAS Puerto Rico\05 – CADD\Quarterly GW Mon\3 – Dec 09\Patillas GW – VOC Results Dec 09.dwg Jan/21/10



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT SAMPLED)
- MONITORING WELL (SAMPLED)
- ISOCONTOUR 1,1-DCE IN DEEP GROUNDWATER
- ISOCONTOUR 1,1-DCE IN SHALLOW GROUNDWATER

NOTES:

Concentrations are reported in micrograms per liter (ug/L).
Dashed where inferred.

Shallow – The well is screened in the upper portion of the alluvium/colluvium aquifer.
Deep – The well is screened in the lower portion of the alluvium/colluvium aquifer.

north

0 50 100 200
SCALE: FEET
1"=200'

General Electric Puerto Rico Investment
Patillas, Puerto Rico

Extent of 1,1-DCE in Groundwater
December 2009

FIGURE 5

MWH

Drawn By & Date: DM 7/15/09 | Approved By & Date: BRT | Revised By & Date: ATF 10/26/09 | Approved By & Date:

J:\01a 400 General Electric Energy\72 - PATILLAS Puerto Rico\05 - CADD\Quarterly GW Mon\3 - Dec 09\Patillas GW - VOC Results Dec 09.dwg Jan/21/10

TABLES

Table 1
Groundwater Elevation Data - December 2009
GE Puerto Rico Investment
Patillas, Puerto Rico

Well No.	Aquifer Zone	Well Install Date	Boring Depth (ft bgs)	Land Surface Elevation (ft amsl)	Top Of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
P-1	Shallow	8/1/86	25.50	67.54	68.71	12.10	56.61
P-1A	Deep Saprolite	8/7/86	70.00	67.47	68.71	12.90	55.81
P-2	Shallow	8/1/86	20.50	61.85	63.60	10.20	53.40
P-2A	Deep	8/20/86	69.00	62.23	63.46	16.20	47.26
P-3	Shallow	8/4/86	25.50	63.54	64.58	10.10	54.48
P-3A	Deep	8/15/86	70.00	63.23	64.68	16.60	48.08
P-4	Shallow	7/29/86	19.11	51.25	52.92	8.70	44.22
P-4A	*Abandoned*	7/31/86	63.00	51.66	52.88	NG	NG
P-5	Shallow	8/4/86	20.50	52.29	53.90	12.90	41.00
P-5A	Deep Saprolite	9/15/86	70.00	51.14	52.51	21.20	31.31
P-6	Shallow	8/30/88	26.00	63.05	63.70	10.70	53.00
P-7	Shallow	2/3/89	18.15	47.64	49.73	8.20	41.53
P-7A	Deep Saprolite	2/2/89	58.20	47.80	49.67	16.40	33.27
P-8	Shallow	2/3/89	17.70	52.19	54.87	9.20	45.67
P-9	Shallow	2/6/89	17.40	50.35	52.32	8.90	43.42
P-10A	Deep Alluvium/Sap	2/9/89	51.50	47.92	49.86	17.70	32.16
P-11	Shallow	2/8/89	13.20	52.95	54.68	6.20	48.48
P-12	Shallow	11/20/89	29.50	19.70	21.82	NG	NG
P-13D	Deep	6/28/91	62.74	20.40	22.10	NG	NG
P-13S	Shallow	7/5/91	28.70	19.59	23.25	NG	NG
P-14D	Deep	7/10/91	67.80	16.28	19.38	NG	NG
P-14S	Shallow	7/13/91	30.50	15.64	18.07	NG	NG
P-15DD	Bedrock	5/26/04	73.60	45.48	47.68	16.00	31.68
P-16S	Shallow	5/27/04	26.30	40.39	42.61	17.50	25.11
P-17D	Deep	6/1/04	61.00	38.26	41.02	11.20	29.82
P-18S	Shallow	5/28/04	16.60	36.55	39.08	12.60	26.48
P-18D	Deep	5/31/04	50.00	36.26	38.52	13.10	25.42
P-19S	Shallow	5/28/04	15.80	33.89	36.37	10.40	25.97
P-19D	Deep	6/30/04	36.50	34.32	36.45	11.60	24.85
P-20S	Shallow	5/4/06	26.00	31.70	34.67	12.00	22.67
P-20D	Deep	5/4/06	52.00	31.50	34.31	12.20	22.11

Horizontal coordinates in Puerto Rico State Plane (feet), Zone 1, NAD 27
bgs - Below Ground Surface
amsl - Above Mean Sea Level
btoc - Below Top of Casing
NG - Not Gauged (access to wells was denied by the property owner)

Table 2
Groundwater Sample Results - December 2009
GE Puerto Rico Investment
Patillas, Puerto Rico

	RSL or MCL*	P-7	P-7A	P-10A	P-15DD	P-16S	P-16S (duplicate)	P-17D	P-18S	P-18D	P-19S	P-19S (duplicate)	P-19D	P-20S	P-20D
Volatile Organic Compound (ug/L)															
1,1,1,2-Tetrachloroethane	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200*	**5**	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	**1 J**	**1 J**	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane	2.4	**9**	1 U	**21**	**2 J**	1 U	1 U	**2 J**	**2 J**	**2 J**	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7*	**31**	**3 J**	**900**	**65**	0.8 U	0.8 U	**91**	**30**	**38**	**3 J**	**3 J**	**6 J**	**5 J**	**22**
1,1-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.0096	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	70*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	0.2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	0.05*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	600*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5*	1 U	1 U	**2 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	730	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-Dichloropropane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	7,100	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2-Chlorotoluene	730	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chlorotoluene	2,600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	2,000	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	22,000	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	5*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	20	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	0.12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	8.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	8.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloroethane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	0.19	0.8 U	0.8 U	**1 J**	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	**0.9 J**	0.8 U	0.8 U	**1 J**	0.8 U	**0.9 J**
Chloromethane	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
cis-1,3-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	0.15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	370	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	390	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.86	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Isopropylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tertiary Butyl Ether	12	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	5*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
m-Xylene	1,400	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Naphthalene	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	1,400	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
p-Isopropyltoluene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Toluene	1000*	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene	100*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	1,300	2 U	2 U	**3 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Vinyl Chloride	2*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Concentrations are reported in micrograms per liter (ug/L)
U - Non-Detect. The analyte was not detected above the indicated reporting limit.
J - Estimated. The analyte was detected below the reporting limit.
RSL - USEPA Regional Screening Level
MCL - Maximum Contaminant Level
Results that exceed USEPA MCLs are boxed.

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	**200**		**NA**		**7.0**	
P-4	Feb-89	1.0	U	1.0	U	1.0	U
	Jul-91	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
	Oct-97	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U
	Jun-04	1.0	U	1.0	U	1.0	U
	Jun-09	1.0	U	1.0	U	1.0	U
P-5	Feb-89	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
	Oct-97	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U
P-7	Feb-89	**20**		1.0	U	**31**	
	Jul-91	**25**		**3.0**		**30**	
	Aug-92	**4.0**		1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	**5.0**	
	Aug-93	1.0	U	1.0	U	1.0	U
	Nov-93	**5.0**		1.0	U	**8.0**	
	Feb-94	**14**		1.0	U	**19**	
	May-94	**13**		1.0	U	**21**	
	Sep-94	**6.0**		1.0	U	**16**	
	Nov-94	1.0	U	1.0	U	**5.0**	
	Mar-95	1.0	U	1.0	U	**3.0**	
	Jun-95	1.0	U	1.0	U	**8.0**	
	Oct-95	1.0	U	1.0	U	**3.0**	
	Jan-96	1.0	U	1.0	U	**2.0**	
	Apr-96	1.0	U	1.0	U	**2.0**	
	Jul-96	1.0	U	1.0	U	1.0	U
	Oct-96	1.0	U	1.0	U	1.0	U
	Feb-97	**18**		1.0	U	**14**	
	Jun-97	**13**		1.0	U	**17**	
	Oct-97	1.0	U	1.0	U	**23**	
	Feb-98	1.0	U	1.0	U	1.0	U
	Jun-98	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U
	May-99	1.0	U	1.0	U	1.0	U
	Aug-99	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U
	Dec-00	1.0	U	1.0	U	1.0	U
	Dec-01	1.0	U	1.0	U	1.0	U
	Jun-04	1.0	U	1.0	U	1.0	U
	Jun-09	1.0	U	**8.0**		**26**	
	Sep-09	**11**		**13.0**		**51**	
	Dec-09	**5**		**9.0**		**31**	

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	**200**		**NA**		**7.0**	
No associated deep well							
P-5A	Feb-89	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
	Oct-97	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U
P-7A	Feb-89	1.0	U	-		**17**	
	Jul-91	**10**		**2.0**		**21**	
	Aug-92	-		-		-	
	Nov-92	**12**		**5.0**		**37**	
	Feb-93	**23**		**6.0**		**60**	
	May-93	**17**		**5.0**		**40**	
	Aug-93	**11**		1.0	U	**29**	
	Nov-93	**11**		**4.0**		**50**	
	Feb-94	**4.0**		**3.0**		**40**	
	May-94	1.0	U	**3.0**		**30**	
	Sep-94	1.0	U	1.0	U	**24**	
	Nov-94	1.0	U	1.0	U	**25**	
	Mar-95	**4.0**		1.0	U	**21**	
	Jun-95	**5.0**		**3.0**		**22**	
	Oct-95	**3.0**		1.0	U	**17**	
	Jan-96	**7.0**		**3.0**		**34**	
	Apr-96	**6.0**		**3.0**		**24**	
	Jul-96	**8.0**		**3.0**		**27**	
	Oct-96	**5.0**		**3.0**		**22**	
	Feb-97	**6.0**		1.0	U	**30**	
	Jun-97	**3.0**		**3.0**		**23**	
	Oct-97	**4.0**		1.0	U	**11**	
	Feb-98	1.0	U	1.0	U	**19**	
	Jun-98	1.0	U	1.0	U	**11**	
	Nov-98	1.0	U	1.0	U	**12**	
	May-99	1.0	U	1.0	U	**19**	
	Aug-99	1.0	U	1.0	U	**18**	
	Dec-99	1.0	U	1.0	U	**19**	
	Dec-00	1.0	U	1.0	U	**16**	
	Dec-01	1.0	U	1.0	U	**18**	
	Jun-04	**0.4**		**1.2**		**14**	
	Jun-09	1.0	U	1.0	U	**3**	J
	Sep-09	0.8	U	1.0	U	**3**	J
	Dec-09	0.8	U	1.0	U	**3**	J

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		Shallow Zone Monitoring Wells						Deep Zone Monitoring Wells			
		1,1,1-TCA		1,1-DCA		1,1-DCE			1,1,1-TCA	1,1-DCA	1,1-DCE
	MCL:	200		NA		7.0		MCL:	200	NA	7.0
P-8	Feb-89	**9.0**		1.0	U	1.0	U	***No associated deep well***			
	Jul-91	1.0	U	1.0	U	1.0	U				
	Aug-92	1.0	U	1.0	U	1.0	U				
	Nov-92	1.0	U	1.0	U	1.0	U				
	Feb-93	1.0	U	1.0	U	1.0	U				
	May-93	1.0	U	1.0	U	1.0	U				
	May-94	1.0	U	1.0	U	1.0	U				
	Jun-95	1.0	U	1.0	U	1.0	U				
	Jul-96	1.0	U	1.0	U	1.0	U				
	Oct-97	1.0	U	1.0	U	1.0	U				
	Nov-98	**2410**		**128**		**1120**					
	May-99	**9.0**		1.0	U	**7.0**					
	Aug-99	1.0	U	1.0	U	1.0	U				
	Dec-99	**2040**		**198**		**2020**					
	Dec-00	1.0	U	1.0	U	1.0	U				
	Dec-01	1.0	U	1.0	U	1.0	U				
	Jun-04	**586**		**61**		**360**					
P-9	Feb-89	1.0	U	1.0	U	**22**		***No associated deep well***			
	Jul-91	1.0	U	**2.0**		**13**					
	Aug-92	1.0	U	1.0	U	**18**					
	Nov-92	1.0	U	**3.0**		**19**					
	Feb-93	1.0	U	1.0	U	**16**					
	May-93	1.0	U	1.0	U	**9**					
	Aug-93	1.0	U	1.0	U	**15**					
	Nov-93	**2.0**		**2.0**		**13**					
	Feb-94	1.0	U	1.0	U	**12**					
	May-94	1.0	U	1.0	U	**10**					
	Sep-94	1.0	U	1.0	U	**11**					
	Nov-94	1.0	U	1.0	U	**10**					
	Mar-95	1.0	U	1.0	U	**8.0**					
	Jun-95	1.0	U	1.0	U	**8.0**					
	Oct-95	1.0	U	1.0	U	**6.0**					
	Jan-96	1.0	U	1.0	U	**10**					
	Apr-96	1.0	U	1.0	U	**9.0**					
	Jul-96	1.0	U	1.0	U	**8.0**					
	Oct-96	1.0	U	1.0	U	**7.0**					
	Feb-97	1.0	U	1.0	U	**9.0**					
	Jun-97	1.0	U	1.0	U	**8.0**					
	Oct-97	1.0	U	1.0	U	**6.0**					
	Feb-98	1.0	U	1.0	U	1.0	U				
	Jun-98	1.0	U	1.0	U	**5.0**					
	Nov-98	1.0	U	1.0	U	**6.0**					
	May-99	1.0	U	1.0	U	**13**					
	Aug-99	1.0	U	1.0	U	**13**					
	Dec-99	1.0	U	1.0	U	**11**					
	Dec-00	1.0	U	1.0	U	**7.0**					
	Dec-01	1.0	U	1.0	U	1.0	U				
	Jun-04	1.0	U	**0.8**		**6.3**					
	Jun-09	1.0	U	1.0	U	**2.0**	J				

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Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	200		NA		7.0	
P-10A							
No associated shallow well							
P-11	Feb-89	**911**		1.0	U	**62**	
	Jul-91	**1180**		**20**		**409**	
	Aug-92	**139**		**11**		**26**	
	Nov-92	**20**		1.0	U	1.0	U
	Feb-93	**80**		**8.0**		**19**	
	May-93	**115**		**6.0**		**25**	
	Aug-93	**148**		**17**		**29**	
	Nov-93	**736**		**49**		**103**	
	Feb-94	**520**		**21**		**204**	
	May-94	**649**		1.0	U	**259**	
	Sep-94	**665**		**25**		**271**	
	Nov-94	**390**		**37**		**176**	
	Mar-95	**394**		**13**		**118**	
	Jun-95	**875**		**46**		**295**	
	Oct-95	**420**		**44**		**172**	
	Jan-96	**878**		**83**		**392**	
	Apr-96	**185**		**8.0**		**62**	
	Jul-96	**712**		**49**		**160**	
	Oct-96	**9120**		**173**		**2260**	
	Feb-97	**5850**		**65**		**1630**	
	Jun-97	**1220**		**26**		**611**	
	Oct-97	**1050**		**50**		**431**	
	Feb-98	**118**		**5.0**		**53**	
	Jun-98	**113**		1.0	U	**47**	
	Nov-98	**10**		1.0	U	1.0	U
	May-99	**17**		1.0	U	1.0	U
	Aug-99	**27**		**5.0**		**6.0**	
	Dec-99	1.0	U	1.0	U	1.0	U
	Dec-00	1.0	U	1.0	U	1.0	U
	Dec-01	1.0	U	1.0	U	1.0	U
	Jun-04	1.0	U	**1.1**		1.0	U
	Jun-09	1.0	U	**1.0**	J	**2.0**	J

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE
	MCL:	200		NA		7.0
P-10A	Feb-89	**26**		**13**		**851**
	Jul-91	1.0	U	**12**		**1740**
	Aug-92	**15**		**17**		**1310**
	Nov-92	**7.0**		**12**		**1310**
	Feb-93	1.0	U	1.0	U	**1320**
	May-93	1.0	U	1.0	U	**937**
	Aug-93	1.0	U	1.0	U	**1180**
	Nov-93	1.0	U	**17**		**1270**
	Feb-94	**9.0**		**18**		**1900**
	May-94	**7.0**		**16**		**1500**
	Sep-94	1.0	U	1.0	U	**1260**
	Nov-94	1.0	U	**13**		**1200**
	Mar-95	1.0	U	1.0	U	**960**
	Jun-95	1.0	U	**16**		**961**
	Oct-95	1.0	U	**17**		**1110**
	Jan-96	**4.0**		**13**		**1260**
	Apr-96	**3.0**		**10**		**770**
	Jul-96	**4.0**		**14**		**1100**
	Oct-96	**3.0**		**18**		**924**
	Feb-97	1.0	U	**11**		**707**
	Jun-97	1.0	U	**10**		**601**
	Oct-97	1.0	U	**12**		**800**
	Feb-98	1.0	U	**11**		**702**
	Jun-98	1.0	U	**11**		**667**
	Nov-98	1.0	U	**11**		**580**
	May-99	1.0	U	**17**		**857**
	Aug-99	1.0	U	**23**		**742**
	Dec-99	1.0	U	**23**		**1350**
	Dec-00	**6.0**		**18**		**992**
	Dec-01	**6.1**		**21**		**974**
	Jun-04	**1.3**		**23**		**1230**
	Jun-09	1.0	U	**21**		**770**
	Sep-09	0.8	U	**18**		**760**
	Dec-09	0.8	U	**21**		**900**
No associated deep well						

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	200		NA		7.0	
P-12	Nov-89	**2.0**		1.0	U	**30**	
	Jul-91	**3.0**		1.0	U	**25**	
	Aug-92	1.0	U	1.0	U	**8.0**	
	Nov-92	1.0	U	1.0	U	**5.0**	
	Feb-93	1.0	U	1.0	U	**5.0**	
	May-93	1.0	U	1.0	U	**20**	
	Aug-93	1.0	U	1.0	U	**17**	
	Nov-93	**3.0**		1.0	U	**27**	
	Feb-94	**2.0**		1.0	U	**30**	
	May-94	1.0	U	1.0	U	**20**	
	Sep-94	1.0	U	1.0	U	**18**	
	Nov-94	1.0	U	1.0	U	**6.0**	
	Mar-95	1.0	U	1.0	U	**12**	
	Jun-95	1.0	U	1.0	U	1.0	U
	Oct-95	1.0	U	1.0	U	**4.0**	
	Jan-96	1.0	U	1.0	U	**6.0**	
	Apr-96	1.0	U	1.0	U	**5.0**	
	Jul-96	1.0	U	1.0	U	1.0	U
P-13S	Jul-91	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
P-14S	Jul-91	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
P-15DD							
No associated shallow well							
P-16S	Jun-04	**0.4**	J	**5.3**		**13**	
	Dec-05	0.8	U	**4.0**	J	**17**	
	May-06	0.8	U	**3.0**	J	**11**	
	Aug-06	0.8	U	**2.0**	J	**9.0**	
	Jun-09	0.8	U	1.0	U	**4.0**	J
	Sep-09	0.8	U	1.0	U	1.0	U
	Dec-09	0.8	U	1.0	U	1.0	U
P-17D							
No associated shallow well							
P-18S	Jun-04	**1.6**		**2.3**		**64**	
	Dec-05	**1.0**	J	**1.0**	J	**26**	
	May-06	**1.0**	J	**2.0**	J	**39**	
	Aug-06	**0.9**	J	1.0	U	**20**	
	Jun-09	**0.8**	J	**1.0**		**17**	
	Sep-09	**1.0**	J	**1.0**	J	**20**	
	Dec-09	**1.0**	J	**2.0**	J	**30**	

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	200		NA		7.0	
No associated deep well							
P-13D	Jul-91	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
P-14D	Jul-91	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
P-15DD	Jun-04	**0.5**	J	**2.1**		**104**	
	Dec-05	0.8	U	**2.0**	J	**96**	
	May-06	0.8	U	**2.0**	J	**99**	
	Aug-06	0.8	U	**2.0**	J	**86**	
	Jun-09	0.8	U	**2.0**	J	**61**	
	Sep-09	0.8	U	**2.0**	J	**68**	
	Dec-09	0.8	U	**2.0**	J	**65**	
No associated deep well							
P-17D	Jun-04	1.0	U	**2.1**		**163**	
	Dec-05	0.8	U	**2.0**	J	**120**	
	May-06	0.8	U	**2.0**	J	**130**	
	Aug-06	0.8	U	**2.0**	J	**110**	
	Jun-09	0.8	U	**2.0**	J	**75**	
	Sep-09	0.8	U	**2.0**	J	**100**	
	Dec-09	0.8	U	**2.0**	J	**91**	
P-18D	Jun-04	**1.2**		**2.1**		**65**	
	Dec-05	**1.0**	J	**1.0**	J	**38**	
	May-06	0.8	U	**2.0**	J	**53**	
	Aug-06	**1.0**	J	**2.0**	J	**53**	
	Jun-09	0.8	U	**1.0**	J	**31**	
	Sep-09	**0.8**	J	**1.0**		**37**	
	Dec-09	**1.0**	J	**2.0**	J	**38**	

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	**200**		**NA**		**7.0**	
P-19S	Jun-04	**0.4**	J	**0.3**	J	**5.4**	
	Dec-05	0.8	U	1.0	U	**2.0**	J
	May-06	0.8	U	1.0	U	**1.0**	J
	Aug-06	0.8	U	1.0	U	0.8	U
	Jun-09	0.8	U	1.0	U	0.8	U
	Sep-09	0.8	U	1.0	U	**2.0**	J
	Dec-09	0.8	U	1.0	U	**3.0**	J
P-20S	May-06	0.8	U	1.0	U	0.8	U
	Aug-06	0.8	U	1.0	U	0.8	U
	Jun-09	0.8	U	1.0	U	0.8	U
	Sep-09	0.8	U	1.0	U	**7.0**	
	Dec-09	0.8	U	1.0	U	**5.0**	J

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	**200**		**NA**		**7.0**	
P-19D	Jun-04	**1.1**		**0.7**	J	**15**	
	Dec-05	0.8	U	1.0	U	**5.0**	
	May-06	0.8	U	1.0	U	**7.0**	
	Aug-06	**1.0**	J	1.0	U	**8.0**	
	Jun-09	0.8	U	1.0	U	**2.0**	J
	Sep-09	0.8	U	1.0	U	**4.0**	J
	Dec-09	0.8	U	1.0	U	**6.0**	J
P-20D	May-06	0.8	U	**1.0**	J	**37**	
	Aug-06	0.8	U	**1.0**	J	**44**	
	Jun-09	0.8	U	1.0	U	**24**	
	Sep-09	0.8	U	1.0	U	**28**	
	Dec-09	0.8	U	1.0	U	**22**	

Concentrations are reported in micrograms per liter (ug/L).

MCL - Maximum contaminant level
NA - Not available
1,1,1-TCA - 1,1,1-Trichoroethane
1,1-DCA - 1,1-Dichloroethane
1,1-DCE - 1,1-Dichloroethene
U - Non-Detect. The analyte was not detected above the indicated reporting limit
J - Estimated. The analyte was detected below the reporting limit.
Results that exceed MCLs are boxed.

APPENDIX A

GROUNDWATER SAMPLING LOGS

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-7	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	19.67	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	18.0'		

Static Water Level (ft)	10.0	BLADDER PUMP SETTINGS		Time Purge Started	9:58
Pumping Water Level (ft)	10.9	Refill	10	Sampling Date	DEC-2-09
Standing Water Column (ft)	9.67	Discharge	5	Sample Time	10:43
Purge & Sampling Methods	QED Bladder Pump	Pressure	25	Total Volume Purged (gal)	5 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. (mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (ml) 75ml<rate<400ml	Comments
10:03	6.20	0.43	24.2	1.16	32.05	-186	10.1	400	
10:08	6.22	0.44	31.4	0.86	31.97	-189	10.1	400	
10:13	6.26	0.44	21.9	0.68	32.05	-192	10.1	400	
10:18	6.29	0.44	12.8	0.56	32.15	-196	10.1	400	
10:23	6.30	0.44	14.1	7.2	32.14	-196	10.1	400	
10:28	6.31	0.43	7.5	0.50	32.14	-196	10.1	400	
10:33	6.31	0.43	7.4	0.50	32.14	-196	10.1	400	
10:38	6.32	0.44	7.1	0.49	32.14	-196	10.1	400	
10:43	6.31	0.44	7.2	0.50	32.14	-197	10.1	400	5gal

EB-01 10:00 AM

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-7A	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	53.30	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	52.0		

Static Water Level (ft)	18.1
Pumping Water Level (ft)	
Standing Water Column (ft)	
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	30

Time Purge Started	11:00
Sampling Date	Dec. 2. 09
Sample Time	11:45 AM
Total Volume Purged (gal)	4 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. (mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
11:05	6.51	0.434	42.1	9.0	30.05	-246	18.4	250	
11:10	6.48	0.431	22.7	0.56	29.85	-251	18.4	250	
11:15	6.45	0.431	18.8	0.44	29.73	-251	18.4	250	
11:20	6.43	0.425	14.2	0.34	29.74	-249	18.4	250	
11:25	6.43	0.426	11.7	0.29	29.72	-249	18.4	250	
11:30	6.42	0.426	9.4	0.27	29.68	-249	18.4	250	
11:35	6.42	0.426	9.3	0.27	29.70	-249	18.4	250	
11:40	6.42	0.423	9.3	0.27	29.80	-247	18.4	250	
11:45	6.42	0.423	9.2	0.27	29.82	-246	18.4	250	4 gal

PUMP STUCK in HOLE

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	10-A	Sampler	~~DTM~~ ON C
Site	Patillas	Total Well Depth	50.83	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	49.00		

Static Water Level (ft)	19.3	BLADDER PUMP SETTINGS		Time Purge Started	1:30pm
Pumping Water Level (ft)	19.~~6~~7 (19.7)	Refill	10	Sampling Date	Dec. 2. 09
Standing Water Column (ft)	31.53	Discharge	5	Sample Time	2:25pm
Purge & Sampling Methods	QED Bladder Pump	Pressure	25	Total Volume Purged (gal)	3 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. (mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
1:35	9.81	0.392	21.6	2.91	30.65	-334	19.7	250	
1:40	7.39	0.527	13.0	1.05	30.44	-264	19.7	250	
1:45	7.05	0.529	5.0	0.41	30.45	-265	19.7	250	
1:50	6.96	0.537	4.9	0.35	30.44	-305	19.7	250	
1:55	6.95	0.543	4.5	0.34	30.43	-306	19.7	250	
2:00	6.94	0.543	4.7	0.30	30.47	-307	19.7	250	
2:05	6.94	0.542	4.9	0.33	30.40	-309	19.7	250	
2:10	6.81	0.541	6.1	0.32	30.54	-312	19.7	250	0.541 Cond.
2:15	6.82	0.542	6.7	0.31	30.40	-309	19.7	250	
2:20	6.82	0.540	6.7	0.30	30.40	-308	19.7	250	
2:25	6.84	0.540	6.8	0.31	30.41	-307	19.7	250	3 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-15DD	Sampler	~~BTM~~ ONC
Site	Patillas	Total Well Depth	75.79	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	74.0		

Static Water Level (ft)	18.2
Pumping Water Level (ft)	18.3
Standing Water Column (ft)	57.59
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	45

Time Purge Started	8:04
Sampling Date	DEC. 4. 09
Sample Time	8:46
Total Volume Purged (gal)	3 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. (mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
8:11	6.69	0.530	28.7	1.14	29.21	-217	18.5	300	
8:16	6.73	0.535	1.52	0.73	29.33	-219	18.5	300	
8:21	6.79	0.548	11.6	0.58	29.30	-218	18.5	300	
8:26	6.80	0.555	10.6	0.58	29.30	-225	18.5	300	
8:31	6.82	0.556	10.9	0.69	29.30	-230	18.5	300	
8:36	6.82	0.540	10.9	0.81	29.39	-231	18.5	300	
8:41	6.83	0.548	8.2	0.82	29.32	-230	18.5	300	
8:46	6.82	0.543	8.4	0.80	29.32	-230	18.5	300	

EB-2 745 AM 12-4-09

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-165	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	28.04	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	27.0		

Static Water Level (ft)	19.5
Pumping Water Level (ft)	~~19.7~~ 20.1
Standing Water Column (ft)	8.03
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25 - 20

Time Purge Started	9:30
Sampling Date	DEC-4-09
Sample Time	10:20
Total Volume Purged (gal)	5 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. (mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
9:35	6.54	0.666	1.30	1.69	28.94	-379	20.0	300	25 psi
9:40	6.59	0.669	82.7	1.00	28.96	-381	20.1	300	adjusted to 20psi
9:45	6.60	0.663	79.6	0.61	28.96	-379	20.2	300	20psi
9:50	6.61	0.640	82.4	0.65	29.00	-359	20.2	300	"
9:55	6.60	0.620	1.23	0.76	29.00	-340	20.2	300	"
10:00	6.56	0.605	58.3	0.84	29.13	-326	20.2	300	"
10:05	6.57	0.600	33.6	0.90	29.22	-323	20.3	300	"
10:10	6.58	0.593	24.3	1.00	29.30	-317	20.3	300	"
10:15	6.59	0.593	23.9	1.00	29.30	-316	20.3	300	"
10:20	6.59	0.598	22.9	1.03	29.33	-312	20.3	300	"
~~10:30~~									
~~10:35~~									

24.5

DUP-01 LABELED AS 9:00 AM FROM PIGS.

TOC : 13.6'
GL : 11.2'

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-17D	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	63.74	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	62.0		

Static Water Level (ft)	13.6
Pumping Water Level (ft)	13.7
Standing Water Column (ft)	50.14
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	45

Time Purge Started	10:46A
Sampling Date	12.4.09
Sample Time	11:46 AM
Total Volume Purged (gal)	3.0 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. ( ) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
10:51	7.22	0.576	97.1	20.8	28.95	-314	13.7	300	
10:56	7.22	0.580	78.4	0.82	28.80	-316	13.7	300	
11:01	7.21	0.583	74.0	0.63	28.82	-323	13.7	300	
11:06	7.23	0.580	65.0	0.41	28.86	-333	13.7	300	
11:11	7.23	0.580	61.9	0.40	28.83	-338	13.7	300	
11:17	7.25	0.580	60.3	0.29	28.84	-359	13.7	300	
11:22	7.26	0.577	54.7	0.26	28.77	-368	13.7	300	
11:27	7.27	0.577	49.9	0.25	28.72	-370	13.7	300	
11:32	7.28	0.579	46.0	0.22	28.55	-373	13.7	300	
11:37	7.28	0.579	40.0	0.22	28.50	-375	13.7	300	
11:41	7.28	0.579	40.0	0.21	28.16	-380	13.7	300	
11:46	7.28	0.579	39.8	0.20	28.19	-381	13.7	300	

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-18S	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	19.05'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	18.00'		

Static Water Level (ft)	15.1'
Pumping Water Level (ft)	15.1'
Standing Water Column (ft)	3.95'
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	20

Time Purge Started	12:02 PM
Sampling Date	12.4.09
Sample Time	12:42 pm
Total Volume Purged (gal)	3gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. (mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
12:07P	6.76	.462	35.8	1.08	28.32	-368	15.1	300	
12:12P	6.77	.463	14.0	0.81	28.34	-361	15.1	300	
12:17P	6.79	.458	7.3	0.55	28.29	-355	15.1	300	
12:22P	6.79	.462	5.6	0.45	28.30	-349	15.1	300	
12:27P	6.80	.460	5.2	0.25	28.21	-344	15.1	300	
12:32P	6.86	.461	6.3	0.25	28.16	-342	15.1	300	
12:37P	6.85	.459	5.9	0.23	28.14	-339	15.1	300	
12:42P	6.86	.460	6.0	0.23	28.15	-338	15.1	300	

TOC = 15.1'
GL = 12.6'

TOC = 15.3'
GL = 13.1'

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-18D	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	48.05	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	47.00		

Static Water Level (ft)	15.3'
Pumping Water Level (ft)	15.3'
Standing Water Column (ft)	33.2'
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25

Time Purge Started	1:00P
Sampling Date	12.4.09
Sample Time	1:35P
Total Volume Purged (gal)	3 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. mS/cm ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (~~ft~~) <0.2'	Flow Rate (ml) 75ml<rate<400ml	Comments
1:05	7.10	0.467	18.1	1.14	28.30	-425	15.3'	300	
1:10	6.99	0.467	1.1	0.77	28.22	-370	15.3'	300	
1:15	6.98	0.468	0.0	0.83	28.59	-344	15.3'	300	
1:20	6.94	0.470	0.0	0.73	28.56	-328	15.3'	300	
1:25	6.91	0.469	0.0	0.56	28.57	-320	15.3'	300	
1:30	6.91	0.471	0.0	0.50	28.47	-317	15.3'	300	
1:35	6.92	0.470	0.0	0.49	28.49	-315	15.3'	300	

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-19S	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	18.10'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	17.10'		

Static Water Level (ft)	12.9'
Pumping Water Level (ft)	13.1'
Standing Water Column (ft)	5.0'
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	20

Time Purge Started	2:25 pm
Sampling Date	12.4.09
Sample Time	3:20 pm (3:20pm)
Total Volume Purged (gal)	4 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (mL)	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
2:30	6.77	0.412	3.10	1.96	29.23	-258	12.9'	300	
2:35	6.77	0.411	110	1.50	29.69	-255	12.9'	300	
2:40	6.79	0.412	49.9	1.04	29.60	-254	12.9'	300	(11.4 DO ~~Cal~~)
2:45	6.80	0.412	25.3	1.21	29.44	-254	12.9'	300	
2:50	6.83	0.413	20.0	1.10	29.35	-255	12.9'	300	
2:55	6.85	0.412	18.8	0.88	29.46	-255	12.9'	300	
3:00	6.86	0.413	18.3	0.81	29.04	-256	13.1'	300	
3:05	6.86	0.414	7.4	0.82	29.06	-256	13.1'	300	
3:10	6.85	0.412	8.1	0.79	29.36	-254	13.1'	300	
3:15	6.86	0.412	8.0	0.78	29.40	-254	13.1'	300	
3:20	6.85	0.412	8.0	0.79	29.31	-252	13.1'	300	

DUP-02 2:00 PM = P-19S AT 3:20 PM.

TOC = 12.9' ▽
GL = 10.4'

TOC = 13.7'
GL = 11.6'

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-19D	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	38.23'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	37.23'		

Static Water Level (ft)	13.7'
Pumping Water Level (ft)	13.7'
Standing Water Column (ft)	24.53'
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25

Time Purge Started	3:35P
Sampling Date	12.4.09
Sample Time	4:25pm
Total Volume Purged (gal)	5 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. mS/cm ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
3:40p	7.12	0.461	117	0.97	28.86	-521	13.7'	325	
3:45p	7.09	0.476	119	1.13	28.88	-475	13.7'	325	
3:50p	7.10	0.476	118	1.11	28.88	-475	13.7'	325	
3:55p	7.11	0.476	14.5	0.95	28.73	-455	13.7'	325	
4:00p	7.12	0.476	14.8	0.86	28.62	-440	13.7'	325	
4:05p	7.12	0.477	14.7	0.79	28.67	-410	13.7'	325	
4:10p	7.15	0.475	14.9	0.98	28.61	-293	13.7'	325	
4:15p	7.16	0.469	16.5	0.87	28.65	-379	13.7'	325	
4:20p	7.15	0.471	17.0	0.86	28.62	-376	13.7'	325	
4:25p	7.16	0.472	17.5	0.81	28.61	-375	13.7	325	

4pm MS/MSD FROM P19D.

TOC = 14.7'
GL = 12.0'

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-20S	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	24.83'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	23.83'		

Static Water Level (ft)	14.7'
Pumping Water Level (ft)	14.8'
Standing Water Column (ft)	10.13'
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	20

Time Purge Started	5:07pm
Sampling Date	12.4.09
Sample Time	5.58
Total Volume Purged (gal)	4 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. mS/cm ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water ~~ft~~ <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
5:12	7.29	0.360	62.7	1.93	27.27	-306	14.8'	300	
5:17	7.31	0.340	25.3	1.55	27.20	-320	14.8'	300	
5:22	7.32	0.340	8.7	1.27	27.14	-327	14.8"	300	
5:27	7.34	0.340	4.9	1.14	27.12	-328	14.8"	300	
5:32	7.34	0.338	3.3	~~1.09~~ 0.97	27.11	-336	14'8"	300	(0.99 DO Off)
5:37	7.34	0.335	1.9	0.82	27.12	-337	14'8"	300	
5:42	7.36	0.337	1.1	0.77	27.09	-340	14'8"	300	
5:47	7.36	0.337	0.9	0.70	27.08	-342	14'8"	300	
5:53	7.36	0.338	0.0	0.64	27.08	-344	14'8"	300	
5:58	7.36	0.337	0.0	0.63	27.08	-344	14'8"	300	

TOC = 14.6'
GL = 12.2'

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-20D	Sampler	~~DTM~~ ONC
Site	Patillas	Total Well Depth	52.98'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	51.98'		

Static Water Level (ft)	14.6'
Pumping Water Level (ft)	14.6'
Standing Water Column (ft)	38.38'
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	38

Time Purge Started	6:14P
Sampling Date	12.4.09
Sample Time	6:59P
Total Volume Purged (gal)	4 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. mS/cm ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water ft <0.2'	Flow Rate (mL) 75ml<rate<400ml	Comments
619P	7.60	.443	153	1.98	26.32	-312	14.6	250	
624P	7.60	.454	179	1.10	26.16	-329	14.9	250	
629P	7.58	.455	170	0.75	26.17	-342	14.6	250	
634P	7.57	.457	152	0.57	26.24	-347	14.6	250	
639P	7.57	.456	142	0.51	26.23	-350	14.6	250	
644P	7.58	.457	124	0.42	26.27	-354	14.6	250	
649P	7.57	.451	121	0.41	26.18	-356	14.6	250	
654P	7.58	.453	118	0.39	26.22	-357	14.6	250	
659P	7.59	.453	117	0.38	26.23	-359	14.6	250	

APPENDIX B

LABORATORY ANALYTICAL DATA

(INCLUDED ON CD)

Lancaster Laboratories
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Type I Data Package
for
MWH Americas, Inc.

SDG# PTL04

Project: GE Patillas Puerto Rico
Water Samples
Collected on 12/02/09-12/04/09

GROUP	SAMPLE NUMBERS
1174413	5859183-5859201

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Prepared by Jacqueline Fellenbaum

Reviewed by [illegible]

Date 1/6/10

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Sample Reference List for SDG Number PTL04 with a Data Package Type of I

12136 - MWH Americas, Inc.

Project: GE Patillas Puerto Rico

Lab Sample Number	Lab Sample Code	Client Sample Description
5859183	PATE1	EB-01 Grab Water 224290
5859184	PATP7	P-7 Grab Water 224290
5859185	PAT7A	P-7A Grab Water 224290
5859186	PAT10	P-10A Grab Water 224290
5859187	PATE2	EB-02 Grab Water 224290
5859188	PAT15	P-15DD Grab Water 224290
5859189	PATD1	DUP-01 Grab Water 224290
5859190	PAT16	P-16S Grab Water 224290
5859191	PAT17	P17D Grab Water 224290
5859192	PAT18	P18S Grab Water 224290
5859193	PATT-	TB-01 Water 224292
5859194	PA18D	P-18D Grab Water 224292
5859195	PA19S	P-19S Grab Water 224292
5859196	PA19D	P-19D Unspiked Grab Water 224292
5859197	PA19D	P-19D Matrix Spike Grab Water 224292
5859198	PA19D	P-19D Matrix Spike Dup Grab Water 224292
5859199	PATD2	DUP-02 Grab Water 224292
5859200	PA20S	P-20S Grab Water 224292
5859201	PA20D	P-20D Grab Water 224292

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 12136 Group# 1174413 Sample # 5859183-201

COC # 224290

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: MWH Americas, Inc. Acct. #:
Project Name/#: GE Patillas, P.R. PWSID #:
Project Manager: Bradly R. Toth P.O.#:
Sampler: Omar Negrón Quote #:
Name of state where samples were collected: Puerto Rico

(4) Analysis Requested — (5) Preservation Codes

For Lab Use Only
FSC:
SCR#: 83887

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(6)

(2) (3)

Sample Identification	Date Collected	Time Collected	Matrix					Appendix 9 by 8260								Remarks
EB-01	12-2-09	10:00A	X			X	3	X								
P-7	12-2-09	10:43A	X			X	3	X								
P-7A	12-2-09	11:45A	X			X	3	X								
P-10A	12-2-09	2:25P	X			X	3	X								
EB-02	12-4-09	7:45A	X			X	3	X								
P-15DD	12-4-09	8:46A	X			X	3	X								
DUP-01	12-4-09	9:00A	X			X	3	X								
P-16S	12-4-09	10:20A	X			X	3	X								
P17D	12-4-09	11:46A	X			X	3	X								
P18S	12-4-09	12:42P	X			X	3	X								

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 248-522-8310 Fax #: 248-522-8344
E-mail address: Bradly.R.Toth@mwhglobal.com

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg) TX TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/9/09	1105			
Omar Negrón	12-4-09	800am			
			[signature]	12/6/09	925

(9)

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

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Acct. # 12136 Group# 1174413 Sample # 5859183-201 **COC #** 224292

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: MWH Americas, Inc. Acct. #:
Project Name/#: GE Patillas, Inc. PWSID #:
Project Manager: Bradly R. Toth P.O.#:
Sampler: Omar Negrón Quote #:
Name of state where samples were collected: Puerto Rico

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Composite	Grab	Matrix	Containers	Preservation Codes	Appendix IX by 8270								Remarks
TB-01	—	—			X	3		X								
P-18D	12.4.09	1:35P	X		X	3		X								
P-19S	12.4.09	3:20P	X		X	3		X								
MS/MSD	12.4.09	4:00P	X		X	3		X								
P-19D	12.4.09	4:25P	X		X	3		X								Background sample per
DUP-02	12.4.09	2:00P	X		X	3		X								K. Kesler-Arnold.
P-20S	12.4.09	5:58P	X		X	3		X								MRS 12/10/09
P-20D	12.4.09	6:59P	X		X	3		X								

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 248-522-8310 Fax #: 248-522-8344
E-mail address: bradly.r.toth@mwhglobal.com

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg) TX TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No

Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
Omar Negrón	12.7.09	800A			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			Mary Gerh	12.8.09	925

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Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

Lancaster Laboratories

Environmental Sample Administration
Receipt Documentation Log

Client/Project: MWH

Date of Receipt: 12/8/09

Time of Receipt: 925

Source Code: 50-1

Unpacker Emp. No.: 2316

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	OMEGA	2.3°C	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody 1

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
[illegible]	12/8/09	1350	Unpacking / SA Hold Storage
Mary Beth Reed	12/9/09	1415	Place in Storage or Entry
			Entry
			Entry

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01163 GC/MS VOA Water Prep

An undiluted aliquot of the water sample or a dilution of the sample is purged with an inert gas and the volatiles are collected on an adsorbent trap that is subsequently desorbed onto a gas chromatographic column.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 5030B, December 1996.

00310 8260B water special scan
06886 Appendix IX by 8260 - water

The water sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto the GC/MS system for chromatographic and mass spectral analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8260B, December 1996

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021
303-385-5500

Prepared by:
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425
December 18, 2009

SAMPLE GROUP

The sample group for this submittal is 1174413. Samples arrived at the laboratory on Tuesday, Dec 8 2009.
The project for this group is GE Patillas Puerto Rico.
The PO# for this sample group is 1006833.010101.

Sample No.	Collected	Client Description
5859183	12/2/2009 10:00	EB-01 Grab Water 224290 GE Patillas - Puerto Rico EB-01
5859184	12/2/2009 10:43	P-7 Grab Water 224290 GE Patillas - Puerto Rico P-7
5859185	12/2/2009 11:45	P-7A Grab Water 224290 GE Patillas - Puerto Rico P-7A
5859186	12/2/2009 14:25	P-10A Grab Water 224290 GE Patillas - Puerto Rico P-10A
5859187	12/4/2009 7:45	EB-02 Grab Water 224290 GE Patillas - Puerto Rico EB-02
5859188	12/4/2009 8:46	P-15DD Grab Water 224290 GE Patillas - Puerto Rico P-15DD
5859189	12/4/2009 9:00	DUP-01 Grab Water 224290 GE Patillas - Puerto Rico DUP-01
5859190	12/4/2009 10:20	P-16S Grab Water 224290 GE Patillas - Puerto Rico P-16S
5859191	12/4/2009 11:46	P17D Grab Water 224290 GE Patillas - Puerto Rico P17D

PTL84 0006

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021
303-385-5500

Prepared by:
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425
December 18, 2009

5859192	12/4/2009 12:42	P18S Grab Water 224290 GE Patillas - Puerto Rico P18S
5859193	12/2/2009	TB-01 Water 224292 GE Patillas - Puerto Rico TB-01
5859194	12/4/2009 13:35	P-18D Grab Water 224292 GE Patillas - Puerto Rico P-18D
5859195	12/4/2009 15:20	P-19S Grab Water 224292 GE Patillas - Puerto Rico P-19S
5859196	12/4/2009 16:25	P-19D Unspiked Grab Water 224292 GE Patillas - Puerto Rico P-19D
5859197	12/4/2009 16:00	P-19D Matrix Spike Grab Water 224292 GE Patillas - Puerto Rico P-19D
5859198	12/4/2009 16:00	P-19D Matrix Spike Dup Grab Water 224292 GE Patillas - Puerto Rico P-19D
5859199	12/4/2009 14:00	DUP-02 Grab Water 224292 GE Patillas - Puerto Rico DUP-02
5859200	12/4/2009 17:58	P-20S Grab Water 224292 GE Patillas - Puerto Rico P-20S
5859201	12/4/2009 18:59	P-20D Grab Water 224292 GE Patillas - Puerto Rico P-20D

METHODOLOGY

The specified methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

PTL94 0037

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
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303-385-5500

Prepared by:
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2425 New Holland Pike
Lancaster, PA 17605-2425
December 18, 2009

ELECTRONIC COPY TO	MWH Americas, Inc.	Attn: Bradly Toth
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Natalie R Luciano at (717)656-2300

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

PTL94 0002

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL04

Report Date: 12/18/2009 19:39
Submit Date: 12/8/2009 9:25

Analysis Name	Units	5859183 EB-01 Gr Result	MDL	5859184 P-7 Grab Result	MDL	5859185 P-7A Gra Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	0.9 J	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	9	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	31	0.8	3 J	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5

PTL04 0010

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Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL04

Report Date: 12/18/2009 19:39
Submit Date: 12/8/2009 9:25

4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	5	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5859186 P-10A Gr Result	MDL	5859187 EB-02 Gr Result	MDL	5859188 P-15DD G Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	1 J	0.8	0.8 J	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1

PTL04 0011

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Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL04

Report Date: 12/18/2009 19:39
Submit Date: 12/8/2009 9:25

Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	21	1	N.D.	1	2 J	1
1,2-Dichloroethane	ug/l	2 J	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	900	8	N.D.	0.8	65	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	3 J	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

		5859189		5859190		5859191	
Analysis Name	Units	DUP-01 G	MDL	P-16S Gr	MDL	P17D Gra	MDL
		Result		Result		Result	

PTL04 8012

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Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL04

Report Date: 12/18/2009 19:39
Submit Date: 12/8/2009 9:25

Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1	2 J	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	91	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

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Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5859192 P18S Gra	MDL	5859193 TB-01 Wa	MDL	5859194 P-18D Gr	MDL
		Result		Result		Result	
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	0.9 J	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

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Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	2 J	1	N.D.	1	2 J	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	30	0.8	N.D.	0.8	38	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	1 J	0.8	N.D.	0.8	1 J	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5859195 P-19S Gr Result	MDL	5859196 P-19D Un Result	MDL	5859197 P-19D Ma Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	130	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	21	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	20	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	21	1

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Bromodichloromethane	ug/l	N.D.	1	N.D.	1	21	1
Bromoform	ug/l	N.D.	1	N.D.	1	19	1
Bromomethane	ug/l	N.D.	1	N.D.	1	20	1
2-Butanone	ug/l	N.D.	3	N.D.	3	130	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	19	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	19	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	19	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	22	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	21	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	22	1
Chloroform	ug/l	N.D.	0.8	1 J	0.8	23	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	22	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	19	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	20	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	16	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	21	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	20	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	20	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	20	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	20	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	20	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	23	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1	21	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	21	1
1,1-Dichloroethene	ug/l	3 J	0.8	6	0.8	27	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	20	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	21	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	21	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	20	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	20	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	21	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	18	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	19	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	20	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	18	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	20	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	19	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	19	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	89	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	21	2
Naphthalene	ug/l	N.D.	1	N.D.	1	14	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	20	1
Styrene	ug/l	N.D.	1	N.D.	1	20	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	21	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	20	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	20	0.8

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Toluene	ug/l	N.D.	0.7	N.D.	0.7	21	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	16	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	15	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	22	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	21	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	21	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	23	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	19	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	20	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	20	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	20	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	41	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	20	0.8

Analysis Name	Units	5859198 P-19D Ma Result	MDL	5859199 DUP-02 G Result	MDL	5859200 P-20S Gr Result	MDL
Acetone	ug/l	120	6	N.D.	6	N.D.	6
Benzene	ug/l	20	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	19	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	20	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	20	1	N.D.	1	N.D.	1
Bromoform	ug/l	19	1	N.D.	1	N.D.	1
Bromomethane	ug/l	19	1	N.D.	1	N.D.	1
2-Butanone	ug/l	120	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	19	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	18	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	18	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	21	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	22	1	N.D.	1	N.D.	1
Chloroform	ug/l	21	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	21	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	19	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	19	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	16	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	20	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	19	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	19	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	19	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	19	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	19	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	22	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	20	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	20	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	26	0.8	3 J	0.8	5 J	0.8

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cis-1,2-Dichloroethene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	19	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	19	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	20	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	20	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	17	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	18	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	19	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	18	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	19	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	18	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	18	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	86	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	20	2	N.D.	2	N.D.	2
Naphthalene	ug/l	14	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	20	1	N.D.	1	N.D.	1
Styrene	ug/l	19	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	20	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	19	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	19	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	20	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	16	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	15	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	22	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	20	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	22	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	18	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	19	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	19	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	20	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	40	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	19	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5859201 P-20D Gr Result	MDL
Acetone	ug/l	N.D.	6
Benzene	ug/l	N.D.	0.5
Bromobenzene	ug/l	N.D.	1
Bromochloromethane	ug/l	N.D.	1
Bromodichloromethane	ug/l	N.D.	1
Bromoform	ug/l	N.D.	1
Bromomethane	ug/l	N.D.	1
2-Butanone	ug/l	N.D.	3

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SDG: PTL04

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Submit Date: 12/8/2009 9:25

n-Butylbenzene	ug/l	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8
Chloroethane	ug/l	N.D.	1
Chloroform	ug/l	0.9 J	0.8
Chloromethane	ug/l	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2
Dibromochloromethane	ug/l	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1
Dibromomethane	ug/l	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1
1,1-Dichloroethene	ug/l	22	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2
Isopropylbenzene	ug/l	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3
Methylene Chloride	ug/l	N.D.	2
Naphthalene	ug/l	N.D.	1
n-Propylbenzene	ug/l	N.D.	1
Styrene	ug/l	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8
Toluene	ug/l	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8

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1,1,2-Trichloroethane	ug/l	N.D.	0.8
Trichloroethene	ug/l	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1
Vinyl Chloride	ug/l	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8

PTL04 0020

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Analysis Report

Lancaster Laboratories

CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
5859183	**EB-01 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1808	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1808	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1808	Nicholas R Rossi	1
5859184	**P-7 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1829	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1829	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1829	Nicholas R Rossi	1
5859185	**P-7A Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1850	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1850	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1850	Nicholas R Rossi	1
5859186	**P-10A Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1911	Nicholas R Rossi	1
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/11/09 0058	Holly Berry	10
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1911	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1911	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	12/11/09 0058	Holly Berry	10
5859187	**EB-02 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1932	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1932	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1932	Nicholas R Rossi	1
5859188	**P-15DD Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1953	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1953	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1953	Nicholas R Rossi	1
5859189	**DUP-01 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2014	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2014	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2014	Nicholas R Rossi	1
5859190	**P-16S Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2035	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2035	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2035	Nicholas R Rossi	1
5859191	**P17D Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2056	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2056	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2056	Nicholas R Rossi	1
5859192	**P18S Grab Water**					

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CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2117	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2117	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2117	Nicholas R Rossi	1
5859193	**TB-01 Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2137	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2137	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2137	Nicholas R Rossi	1
5859194	**P-18D Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2158	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2158	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2158	Nicholas R Rossi	1
5859195	**P-19S Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2218	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2218	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2218	Nicholas R Rossi	1
5859196	**P-19D Unspiked Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1705	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1705	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1705	Nicholas R Rossi	1
5859197	**P-19D Matrix Spike Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1726	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1726	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1726	Nicholas R Rossi	1
5859198	**P-19D Matrix Spike Dup Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 1747	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 1747	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 1747	Nicholas R Rossi	1
5859199	**DUP-02 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2239	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2239	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2239	Nicholas R Rossi	1
5859200	**P-20S Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2300	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2300	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2300	Nicholas R Rossi	1
5859201	**P-20D Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	12/10/09 2321	Nicholas R Rossi	1
00310	8260B water special scan	SW-846 8260B	1	12/10/09 2321	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	12/10/09 2321	Nicholas R Rossi	1

PTL84 0822

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Client Name: MWH Americas, Inc. Group Number: 1174413

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: Y093442AA	Sample number(s): 5859183-5859201							
Acetone	N.D.	6.	ug/l	128		49-234		
Benzene	N.D.	0.5	ug/l	101		79-120		
Bromobenzene	N.D.	1.	ug/l	98		80-120		
Bromochloromethane	N.D.	1.	ug/l	103		80-120		
Bromodichloromethane	N.D.	1.	ug/l	103		80-120		
Bromoform	N.D.	1.	ug/l	100		61-120		
Bromomethane	N.D.	1.	ug/l	94		40-137		
2-Butanone	N.D.	3.	ug/l	106		64-166		
n-Butylbenzene	N.D.	1.	ug/l	93		74-120		
sec-Butylbenzene	N.D.	1.	ug/l	91		78-120		
tert-Butylbenzene	N.D.	1.	ug/l	90		80-120		
Carbon Tetrachloride	N.D.	1.	ug/l	104		75-123		
Chlorobenzene	N.D.	0.8	ug/l	101		80-120		
Chloroethane	N.D.	1.	ug/l	99		49-129		
Chloroform	N.D.	0.8	ug/l	104		77-122		
Chloromethane	N.D.	1.	ug/l	106		60-129		
2-Chlorotoluene	N.D.	1.	ug/l	96		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	98		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	82		66-120		
Dibromochloromethane	N.D.	1.	ug/l	106		80-120		
1,2-Dibromoethane	N.D.	1.	ug/l	100		80-120		
Dibromomethane	N.D.	1.	ug/l	99		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	99		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	97		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	100		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	85		54-152		
1,1-Dichloroethane	N.D.	1.	ug/l	101		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	102		70-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	97		74-123		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	100		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	102		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	100		78-120		
1,3-Dichloropropane	N.D.	1.	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	96		77-124		
1,1-Dichloropropene	N.D.	1.	ug/l	96		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	94		80-120		

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

PTL84 9023

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trans-1,3-Dichloropropene	N.D.	1.	ug/l	97	79-120
Ethylbenzene	N.D.	0.8	ug/l	99	79-120
Hexachlorobutadiene	N.D.	2.	ug/l	84	58-120
Isopropylbenzene	N.D.	1.	ug/l	94	77-120
p-Isopropyltoluene	N.D.	1.	ug/l	91	80-120
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95	76-120
4-Methyl-2-pentanone	N.D.	3.	ug/l	89	70-121
Methylene Chloride	N.D.	2.	ug/l	102	80-120
Naphthalene	N.D.	1.	ug/l	74	62-120
n-Propylbenzene	N.D.	1.	ug/l	99	80-120
Styrene	N.D.	1.	ug/l	97	80-120
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	105	80-120
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	101	71-120
Tetrachloroethene	N.D.	0.8	ug/l	94	80-121
Toluene	N.D.	0.7	ug/l	103	79-120
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	81	65-120
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	76	67-120
1,1,1-Trichloroethane	N.D.	0.8	ug/l	102	75-127
1,1,2-Trichloroethane	N.D.	0.8	ug/l	103	80-120
Trichloroethene	N.D.	1.	ug/l	99	80-120
Trichlorofluoromethane	N.D.	2.	ug/l	91	64-129
1,2,3-Trichloropropane	N.D.	1.	ug/l	96	80-120
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	97	74-120
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	97	75-120
Vinyl Chloride	N.D.	1.	ug/l	87	59-120
m+p-Xylene	N.D.	0.8	ug/l	100	80-120
o-Xylene	N.D.	0.8	ug/l	98	80-120

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
Batch number: Y093442AA	Sample number(s): 5859183-5859201 UNSPK: 5859196								
Acetone	84	81	52-139	4	30				
Benzene	104	99	80-126	5	30				
Bromobenzene	100	96	82-115	4	30				
Bromochloromethane	105	102	83-123	2	30				
Bromodichloromethane	104	99	78-125	5	30				
Bromoform	96	93	60-121	3	30				
Bromomethane	101	97	38-149	3	30				
2-Butanone	87	83	57-138	4	30				
n-Butylbenzene	97	94	73-128	3	30				
sec-Butylbenzene	95	92	79-125	3	30				

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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tert-Butylbenzene	93	90	81-121	4	30
Carbon Tetrachloride	111	107	81-138	4	30
Chlorobenzene	104	101	87-124	3	30
Chloroethane	109	108	51-145	0	30
Chloroform	108	100	81-134	7	30
Chloromethane	108	105	67-154	2	30
2-Chlorotoluene	97	95	82-118	3	30
4-Chlorotoluene	99	95	84-122	4	30
1,2-Dibromo-3-chloropropane	82	79	66-121	3	30
Dibromochloromethane	103	98	74-116	5	30
1,2-Dibromoethane	99	94	77-116	5	30
Dibromomethane	100	94	83-119	6	30
1,2-Dichlorobenzene	100	97	84-119	3	30
1,3-Dichlorobenzene	98	94	86-121	4	30
1,4-Dichlorobenzene	100	97	85-121	3	30
Dichlorodifluoromethane	117	111	64-163	6	30
1,1-Dichloroethane	106	101	84-129	5	30
1,2-Dichloroethane	105	98	66-141	6	30
1,1-Dichloroethene	104	97	85-142	5	30
cis-1,2-Dichloroethene	102	98	85-125	4	30
trans-1,2-Dichloroethene	106	99	87-126	7	30
1,2-Dichloropropane	103	97	83-124	6	30
1,3-Dichloropropane	102	97	81-120	5	30
2,2-Dichloropropane	101	98	81-135	4	30
1,1-Dichloropropene	103	98	86-137	4	30
cis-1,3-Dichloropropene	88	86	75-125	2	30
trans-1,3-Dichloropropene	94	91	74-119	4	30
Ethylbenzene	102	97	71-134	5	30
Hexachlorobutadiene	88	88	56-134	0	30
Isopropylbenzene	99	95	75-128	4	30
p-Isopropyltoluene	94	92	76-123	3	30
Methyl Tertiary Butyl Ether	94	90	72-126	4	30
4-Methyl-2-pentanone	89	86	63-123	4	30
Methylene Chloride	105	98	79-120	7	30
Naphthalene	70	71	52-125	2	30
n-Propylbenzene	102	98	74-134	4	30
Styrene	99	93	60-140	6	30
1,1,1,2-Tetrachloroethane	107	102	82-119	5	30
1,1,2,2-Tetrachloroethane	99	96	73-119	3	30
Tetrachloroethene	100	96	80-128	4	30
Toluene	106	102	80-125	5	30
1,2,3-Trichlorobenzene	79	80	57-122	0	30
1,2,4-Trichlorobenzene	76	75	60-122	1	30
1,1,1-Trichloroethane	112	108	80-143	3	30
1,1,2-Trichloroethane	104	100	77-124	4	30
Trichloroethene	105	102	88-133	3	30
Trichlorofluoromethane	116	111	73-152	5	30
1,2,3-Trichloropropane	97	92	76-118	5	30
1,2,4-Trimethylbenzene	99	95	72-130	4	30

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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1,3,5-Trimethylbenzene	99	95	72-131	4	30
Vinyl Chloride	101	98	66-133	3	30
m+p-Xylene	104	99	79-125	5	30
o-Xylene	100	95	79-125	6	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Appendix IX by 8260 - water
Batch number: Y093442AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5859183	98	93	94	92
5859184	100	95	92	89
5859185	99	95	93	89
5859186	100	95	93	88
5859187	101	95	92	88
5859188	102	91	92	87
5859189	101	94	93	88
5859190	101	94	92	87
5859191	102	91	92	88
5859192	103	97	93	87
5859193	104	87	93	87
5859194	104	96	92	87
5859195	104	97	92	87
5859196	99	92	93	90
5859197	96	91	98	98
5859198	95	92	97	98
5859199	103	97	92	87
5859200	104	97	94	86
5859201	105	97	93	86
Blank	97	92	94	92
LCS	94	91	97	99
MS	96	91	98	98
MSD	95	92	97	98
Limits:	80-116	77-113	80-113	78-113

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

PTL84 0826

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

5859183 EB-01 Grab Water

5859184 P-7 Grab Water

5859185 P-7A Grab Water

5859186 P-10A Grab Water

5859187 EB-02 Grab Water

5859188 P-15DD Grab Water

5859189 DUP-01 Grab Water

5859190 P-16S Grab Water

5859191 P17D Grab Water

5859192 P18S Grab Water

5859193 TB-01 Water

5859194 P-18D Grab Water

PTL64 0027

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

5859195 P-19S Grab Water

5859196 P-19D Unspiked Grab Water

5859197 P-19D Matrix Spike Grab Water

5859198 P-19D Matrix Spike Dup Grab Water

5859199 DUP-02 Grab Water

5859200 P-20S Grab Water

5859201 P-20D Grab Water

PTL04 0828

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Volatiles by GC/MS Data

Case Narrative
Conformance/Nonconformance
Summary

CASE NARRATIVE
Client: MWH Americas, Inc.
SDG#: PTL04

LANCASTER LABORATORIES
VOLATILES BY GC/MS

SAMPLE NUMBERS:

LL #'s	Sample Code	Matrix Water	Comments
5859183	PATE1	X	Client Blank
5859184	PATP7	X	
5859185	PAT7A	X	
5859186	PAT10	X	
5859186	PAT10DL	X	10 X Dilution
5859187	PATE2	X	Client Blank
5859188	PAT15	X	
5859189	PATD1	X	
5859190	PAT16	X	
5859191	PAT17	X	
5859192	PAT18	X	
5859193	PATT-	X	Client Blank
5859194	PA18D	X	
5859195	PA19S	X	
5859196	PA19D	X	Unspiked
5859197	PA19DMS	X	Matrix Spike
5859198	PA19DMSD	X	Matrix Spike Dup
5859199	PATD2	X	
5859200	PA20S	X	
5859201	PA20D	X	

LABORATORY SUBMITTED QC:

VBLKY40	VBLKY40	X	Method Blank
LCSY40	LCSY40	X	Lab Control Sample

SAMPLE PREPARATION:

No sample preparation was necessary for the VOA fraction.

PTL04 0031

ANALYSIS:

No problems were encountered during the analysis of these samples.

QUALITY CONTROL and NONCONFORMANCE SUMMARY:

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCD was performed, unless otherwise specified in the method or by the client.

All QC is within specifications.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Case Narrative reviewed and approved by:

Date 1/6/10

Dana M. Kauffman
Manager, Data Deliverables

PTL04 0032

QC Summary

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKY40

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKY40

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/09dec10b.b/yd10b06.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 12/10/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
75-71-8	Dichlorodifluoromethane		2	U
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		2	U
60-29-7	Ethyl Ether		2	U
107-02-8	Acrolein		40	U
75-35-4	1,1-Dichloroethene		0.8	U
67-64-1	Acetone		6	U
76-13-1	Freon 113		2	U
74-88-4	Methyl Iodide		1	U
67-63-0	2-Propanol		50	U
75-15-0	Carbon Disulfide		1	U
107-05-1	Allyl Chloride		1	U
79-20-9	Methyl Acetate		1	U
75-09-2	Methylene Chloride		2	U
75-65-0	t-Butyl Alcohol		10	U
107-13-1	Acrylonitrile		4	U
156-60-5	trans-1,2-Dichloroethene		0.8	U
1634-04-4	Methyl Tertiary Butyl Ether		0.5	U
110-54-3	n-Hexane		2	U
75-34-3	1,1-Dichloroethane		1	U
108-20-3	di-Isopropyl Ether		0.8	U
126-99-8	2-Chloro-1,3-Butadiene		1	U
637-92-3	Ethyl t-Butyl Ether		0.8	U
156-59-2	cis-1,2-Dichloroethene		0.8	U
78-93-3	2-Butanone		3	U
594-20-7	2,2-Dichloropropane		1	U
107-12-0	Propionitrile		30	U

PTLB4 0034

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKY40

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKY40

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/09dec10b.b/yd10b06.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 12/10/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/L	Q
540-59-0	1,2-Dichloroethene (total)	0.8	U
126-98-7	Methacrylonitrile	10	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahydrofuran	4	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.8	U
110-82-7	Cyclohexane	2	U
563-58-6	1,1-Dichloropropene	1	U
56-23-5	Carbon Tetrachloride	1	U
78-83-1	Isobutyl Alcohol	100	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	1	U
994-05-8	t-Amyl Methyl Ether	0.8	U
142-82-5	n-Heptane	2	U
71-36-3	n-Butanol	100	U
79-01-6	Trichloroethene	1	U
108-87-2	Methylcyclohexane	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
123-91-1	1,4-Dioxane	70	U
80-62-6	Methyl Methacrylate	1	U
75-27-4	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	2	U
110-75-8	2-Chloroethyl Vinyl Ether	2	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
108-88-3	Toluene	0.7	U
10061-02-6	trans-1,3-Dichloropropene	1	U
97-63-2	Ethyl Methacrylate	1	U
79-00-5	1,1,2-Trichloroethane	0.8	U

PTL84 0035

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKY40

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKY40

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/09dec10b.b/yd10b06.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 12/10/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/L	Q
127-18-4	Tetrachloroethene	0.8	U
142-28-9	1,3-Dichloropropane	1	U
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	0.8	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	0.8	U
179601-23-1	m+p-Xylene	0.8	U
1330-20-7	Xylene (Total)	0.8	U
95-47-6	o-Xylene	0.8	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
108-94-1	Cyclohexanone	55	U
108-86-1	Bromobenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
96-18-4	1,2,3-Trichloropropane	1	U
110-57-6	trans-1,4-Dichloro-2-Butene	15	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
76-01-7	Pentachloroethane	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
106-46-7	1,4-Dichlorobenzene	1	U

PTL04 0036

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKY40

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKY40

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09355.i/09dec10b.b/yd10b06.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 12/10/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
526-73-8	1,2,3-Trimethylbenzene		1	U
100-44-7	Benzyl Chloride		1	U
141-93-5	1,3-Diethylbenzene		1	U
105-05-5	1,4-Diethylbenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U
104-51-8	n-Butylbenzene		1	U
135-01-3	1,2-Diethylbenzene		1	U
96-12-8	1,2-Dibromo-3-Chloropropane		2	U
120-82-1	1,2,4-Trichlorobenzene		1	U
87-68-3	Hexachlorobutadiene		2	U
91-20-3	Naphthalene		1	U
87-61-6	1,2,3-Trichlorobenzene		1	U
91-57-6	2-Methylnaphthalene		2	U
25340-17-4	Diethylbenzene (total)		1	U

PTL04 0037

FORM I VOA

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name:___Lancaster Laboratories___ Contract:_____

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:PTL04___

	LL #'s	EPA SAMPLE NO.	S1 (DBF)#	S2 (DCA)#	S3 (TOL)#	S4 (BFB)#	TOT OUT
01	5859183	PATE1	98	93	94	92	0
02	5859184	PATP7	100	95	92	89	0
03	5859185	PAT7A	99	95	93	89	0
04	5859186	PAT10	100	95	93	88	0
05	5859186	PAT10DL	100	95	94	87	0
06	5859187	PATE2	101	95	92	88	0
07	5859188	PAT15	102	91	92	87	0
08	5859189	PATD1	101	94	93	88	0
09	5859190	PAT16	101	94	92	87	0
10	5859191	PAT17	102	91	92	88	0
11	5859192	PAT18	103	97	93	87	0
12	5859193	PATT-	104	87	93	87	0
13	5859194	PA18D	104	96	92	87	0
14	5859195	PA19S	104	97	92	87	0
15	5859196	PA19D	99	92	93	90	0
16	5859197	PA19DMS	96	91	98	98	0
17	5859198	PA19DMSD	95	92	97	98	0
18	5859199	PATD2	103	97	92	87	0
19	5859200	PA20S	104	97	94	86	0
20	5859201	PA20D	105	97	93	86	0
21	VBLKY40	VBLKY40	97	92	94	92	0
22	LCSY40	LCSY40	94	91	97	99	0

		QC LIMITS
S1 (DBF)	= Dibromofluoromethane	(80-116)
S2 (DCA)	= 1,2-Dichloroethane-d4	(77-113)
S3 (TOL)	= Toluene-d8	(80-113)
S4 (BFB)	= 4-Bromofluorobenzene	(78-113)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Lancaster Laboratories, Inc.
GC/MS Volatiles Matrix Spike/Spike Duplicate Recoveries

Unspiked: yd10s30.d
PA19D 5859196
Method: SW-846 8260B
Instrument: HP09355

Matrix Spike: yd10s31.d
PA19DMS 5859197
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: yd10s32.d
PA19DMSD 5859198
Batch: Y093442AA

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/L	MS CONC UG/L	MSD CONC UG/L	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX
Dichlorodifluoromethane	20.0	20.0	ND	23.5	22.1	117	111	64-163	YES	6	30
Chloromethane	20.0	20.0	ND	21.5	21.1	108	105	67-154	YES	2	30
Vinyl Chloride	20.0	20.0	ND	20.1	19.6	101	98	66-133	YES	3	30
Bromomethane	20.0	20.0	ND	20.1	19.5	101	97	38-149	YES	3	30
Chloroethane	20.0	20.0	ND	21.7	21.7	109	108	51-145	YES	0	30
Trichlorofluoromethane	20.0	20.0	ND	23.2	22.1	116	111	73-152	YES	5	30
1,1-Dichloroethene	20.0	20.0	6.18	26.9	25.7	104	97	85-142	YES	5	30
Acetone	150.0	150.0	ND	126	121	84	81	52-139	YES	4	30
Methylene Chloride	20.0	20.0	ND	21.0	19.5	105	98	79-120	YES	7	30
trans-1,2-Dichloroethene	20.0	20.0	ND	21.1	19.8	106	99	87-126	YES	7	30
Methyl Tertiary Butyl Ether	20.0	20.0	ND	18.7	18.0	94	90	72-126	YES	4	30
1,1-Dichloroethane	20.0	20.0	ND	21.2	20.2	106	101	84-129	YES	5	30
cis-1,2-Dichloroethene	20.0	20.0	ND	20.3	19.5	101	98	85-125	YES	4	30
2-Butanone	150.0	150.0	ND	130	125	87	83	57-138	YES	4	30
2,2-Dichloropropane	20.0	20.0	ND	20.3	19.6	101	98	81-135	YES	4	30
Bromochloromethane	20.0	20.0	ND	20.9	20.5	105	102	83-123	YES	2	30
Chloroform	20.0	20.0	1.15	22.7	21.2	108	100	81-134	YES	7	30
1,1,1-Trichloroethane	20.0	20.0	ND	22.4	21.7	112	108	80-143	YES	3	30
1,1-Dichloropropene	20.0	20.0	ND	20.6	19.7	103	98	86-137	YES	4	30
Carbon Tetrachloride	20.0	20.0	ND	22.2	21.4	111	107	81-138	YES	4	30
Benzene	20.0	20.0	ND	20.7	19.7	104	99	80-126	YES	5	30
1,2-Dichloroethane	20.0	20.0	ND	21.0	19.6	105	98	66-141	YES	6	30
Trichloroethene	20.0	20.0	ND	21.0	20.5	105	102	88-133	YES	3	30
1,2-Dichloropropane	20.0	20.0	ND	20.5	19.3	103	97	83-124	YES	6	30
Dibromomethane	20.0	20.0	ND	19.9	18.8	100	94	83-119	YES	6	30
Bromodichloromethane	20.0	20.0	ND	20.9	19.8	104	99	78-125	YES	5	30
cis-1,3-Dichloropropene	20.0	20.0	ND	17.5	17.2	88	86	75-125	YES	2	30
4-Methyl-2-Pentanone	100.0	100.0	ND	88.9	85.7	89	86	63-123	YES	4	30
Toluene	20.0	20.0	ND	21.3	20.3	106	102	80-125	YES	5	30
trans-1,3-Dichloropropene	20.0	20.0	ND	18.8	18.2	94	91	74-119	YES	4	30
1,1,2-Trichloroethane	20.0	20.0	ND	20.7	20.0	104	100	77-124	YES	4	30
Tetrachloroethene	20.0	20.0	ND	20.0	19.2	100	96	80-128	YES	4	30
1,3-Dichloropropane	20.0	20.0	ND	20.3	19.4	102	97	81-120	YES	5	30
Dibromochloromethane	20.0	20.0	ND	20.6	19.6	103	98	74-116	YES	5	30
1,2-Dibromoethane	20.0	20.0	ND	19.9	18.9	99	94	77-116	YES	5	30
Chlorobenzene	20.0	20.0	ND	20.7	20.1	104	100	87-124	YES	3	30
1,1,1,2-Tetrachloroethane	20.0	20.0	ND	21.4	20.3	107	102	82-119	YES	5	30
Ethylbenzene	20.0	20.0	ND	20.4	19.5	102	97	71-134	YES	5	30
m+p-Xylene	40.0	40.0	ND	41.5	39.6	104	99	79-125	YES	5	30
Xylene (Total)	60.0	60.0	ND	61.5	58.5	102	97	79-125	YES	5	30
o-Xylene	20.0	20.0	ND	20.0	18.9	100	95	79-125	YES	6	30
Styrene	20.0	20.0	ND	19.8	18.6	99	93	60-140	YES	6	30
Bromoform	20.0	20.0	ND	19.2	18.6	96	93	60-121	YES	3	30
Isopropylbenzene	20.0	20.0	ND	19.9	19.0	99	95	75-128	YES	4	30
1,1,2,2-Tetrachloroethane	20.0	20.0	ND	19.9	19.3	99	96	73-119	YES	3	30
Bromobenzene	20.0	20.0	ND	19.9	19.1	100	96	82-115	YES	4	30
1,2,3-Trichloropropane	20.0	20.0	ND	19.4	18.5	97	92	76-118	YES	5	30
n-Propylbenzene	20.0	20.0	ND	20.5	19.6	102	98	74-134	YES	4	30
2-Chlorotoluene	20.0	20.0	ND	19.5	19.0	97	95	82-118	YES	3	30
1,3,5-Trimethylbenzene	20.0	20.0	ND	19.7	19.0	99	95	72-131	YES	4	30
4-Chlorotoluene	20.0	20.0	ND	19.8	19.0	99	95	84-122	YES	4	30
tert-Butylbenzene	20.0	20.0	ND	18.6	18.0	93	90	81-121	YES	4	30
1,2,4-Trimethylbenzene	20.0	20.0	ND	19.9	19.1	99	95	72-130	YES	4	30
sec-Butylbenzene	20.0	20.0	ND	19.0	18.5	95	92	79-125	YES	3	30
p-Isopropyltoluene	20.0	20.0	ND	18.9	18.3	94	92	76-123	YES	3	30
1,3-Dichlorobenzene	20.0	20.0	ND	19.7	18.9	98	94	86-121	YES	4	30
1,4-Dichlorobenzene	20.0	20.0	ND	19.9	19.4	100	97	85-121	YES	3	30
n-Butylbenzene	20.0	20.0	ND	19.4	18.9	97	94	73-128	YES	3	30

N/C = Could not calculate

Lab Chronicle:

Ent. by PMD04 9839

Ver. by

Lancaster Laboratories, Inc.
GC/MS Volatiles Matrix Spike/Spike Duplicate Recoveries

Unspiked: yd10s30.d
PA19D 5859196
Method: SW-846 8260B
Instrument: HP09355

Matrix Spike: yd10s31.d
PA19DMS 5859197
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: yd10s32.d
PA19DMSD 5859198
Batch: Y093442AA

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/L	MS CONC UG/L	MSD CONC UG/L	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX
1,2-Dichlorobenzene	20.0	20.0	ND	20.0	19.4	100	97	84-119	YES	3	30
1,2-Dibromo-3-Chloropropane	20.0	20.0	ND	16.3	15.9	82	79	66-121	YES	3	30
1,2,4-Trichlorobenzene	20.0	20.0	ND	15.2	15.1	76	75	60-122	YES	1	30
Hexachlorobutadiene	20.0	20.0	ND	17.6	17.5	88	88	56-134	YES	0	30
Naphthalene	20.0	20.0	ND	13.9	14.2	70	71	52-125	YES	2	30
1,2,3-Trichlorobenzene	20.0	20.0	ND	15.8	15.9	79	80	57-122	YES	0	30

N/C = Could not calculate

Lab Chronicle: _____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery

File: yd10l05.d
Inst: HP09355
Dilution Factor: 1.0

Injected: 12/10/09 at 16:04
Sample: LCSY40

Method: SW-846 8260B
Matrix/Level: WL
Batch: Y093442AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Dichlorodifluoromethane	20.00	17.07	85	54-152	YES
Chloromethane	20.00	21.17	106	60-129	YES
Vinyl Chloride	20.00	17.41	87	59-120	YES
Bromomethane	20.00	18.81	94	40-137	YES
Chloroethane	20.00	19.79	99	49-129	YES
Trichlorofluoromethane	20.00	18.14	91	64-129	YES
Ethyl Ether	20.00	15.43	77	23-144	YES
Acrolein	150.00	58.19	39	43-135	NO
1,1-Dichloroethene	20.00	19.31	97	74-123	YES
Freon 113	20.00	16.94	85	69-128	YES
Acetone	150.00	192.25	128	49-234	YES
Methyl Iodide	20.00	18.48	92	71-122	YES
2-Propanol	150.00	149.03	99	67-122	YES
Carbon Disulfide	20.00	19.29	96	71-120	YES
Allyl Chloride	20.00	21.81	109	65-140	YES
Methyl Acetate	20.00	22.21	111	73-139	YES
Methylene Chloride	20.00	20.44	102	80-120	YES
t-Butyl Alcohol	200.00	178.88	89	73-120	YES
Acrylonitrile	100.00	86.73	87	67-120	YES
trans-1,2-Dichloroethene	20.00	20.31	102	80-120	YES
Methyl Tertiary Butyl Ether	20.00	19.02	95	76-120	YES
n-Hexane	20.00	13.94	70	61-132	YES
1,2-Dichloroethene (total)	40.00	40.31	101	80-120	YES
1,1-Dichloroethane	20.00	20.24	101	79-120	YES
di-Isopropyl Ether	20.00	19.28	96	71-124	YES
2-Chloro-1,3-Butadiene	20.00	20.56	103	73-136	YES
Ethyl t-Butyl Ether	20.00	17.84	89	76-120	YES
cis-1,2-Dichloroethene	20.00	20.01	100	80-120	YES
2-Butanone	150.00	158.54	106	64-166	YES
2,2-Dichloropropane	20.00	19.28	96	77-124	YES
Propionitrile	150.00	173.23	115	69-131	YES
Methacrylonitrile	150.00	141.80	95	80-120	YES
Bromochloromethane	20.00	20.58	103	80-120	YES
Tetrahydrofuran	100.00	112.61	113	71-127	YES
Chloroform	20.00	20.76	104	77-122	YES
1,1,1-Trichloroethane	20.00	20.49	102	75-127	YES
Cyclohexane	20.00	16.23	81	65-125	YES
1,1-Dichloropropene	20.00	19.16	96	80-120	YES
Carbon Tetrachloride	20.00	20.73	104	75-123	YES
Isobutyl Alcohol	500.00	524.19	105	70-128	YES
Benzene	20.00	20.12	101	79-120	YES
1,2-Dichloroethane	20.00	20.34	102	70-130	YES
t-Amyl Methyl Ether	20.00	17.74	89	77-120	YES
n-Heptane	20.00	14.73	74	53-132	YES
n-Butanol	1000.00	926.19	93	63-120	YES
Trichloroethene	20.00	19.76	99	80-120	YES
1,2-Dichloropropane	20.00	19.92	100	78-120	YES
Methylcyclohexane	20.00	16.27	81	71-132	YES
Methyl Methacrylate	20.00	17.69	88	72-120	YES
Dibromomethane	20.00	19.85	99	80-120	YES
1,4-Dioxane	500.00	363.10	73	51-129	YES
Bromodichloromethane	20.00	20.54	103	80-120	YES
2-Nitropropane	20.00	19.34	97	56-127	YES
2-Chloroethyl Vinyl Ether	20.00	16.79	84	74-121	YES
cis-1,3-Dichloropropene	20.00	18.84	94	80-120	YES
4-Methyl-2-Pentanone	100.00	89.26	89	70-121	YES
Toluene	20.00	20.52	103	79-120	YES
trans-1,3-Dichloropropene	20.00	19.36	97	79-120	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by PTL84 2041

_____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery

File: yd10105.d
Inst: HP09355
Dilution Factor: 1.0

Injected: 12/10/09 at 16:04
Sample: LCSY40

Method: SW-846 8260B
Matrix/Level: WL
Batch: Y093442AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Ethyl Methacrylate	20.00	18.03	90	70-120	YES
1,1,2-Trichloroethane	20.00	20.52	103	80-120	YES
Tetrachloroethene	20.00	18.88	94	80-121	YES
1,3-Dichloropropane	20.00	20.23	101	80-120	YES
2-Hexanone	100.00	98.37	98	65-136	YES
Dibromochloromethane	20.00	21.10	106	80-120	YES
1,2-Dibromoethane	20.00	20.01	100	80-120	YES
Chlorobenzene	20.00	20.15	101	80-120	YES
1,1,1,2-Tetrachloroethane	20.00	20.99	105	80-120	YES
Ethylbenzene	20.00	19.73	99	79-120	YES
m+p-Xylene	40.00	39.88	100	80-120	YES
Xylene (Total)	60.00	59.41	99	80-120	YES
o-Xylene	20.00	19.53	98	80-120	YES
Styrene	20.00	19.42	97	80-120	YES
Bromoform	20.00	20.00	100	61-120	YES
Isopropylbenzene	20.00	18.88	94	77-120	YES
Cyclohexanone	500.00	384.64	77	54-128	YES
1,1,2,2-Tetrachloroethane	20.00	20.20	101	71-120	YES
trans-1,4-Dichloro-2-Butene	100.00	89.70	90	58-123	YES
Bromobenzene	20.00	19.70	98	80-120	YES
1,2,3-Trichloropropane	20.00	19.28	96	80-120	YES
n-Propylbenzene	20.00	19.81	99	80-120	YES
2-Chlorotoluene	20.00	19.21	96	80-120	YES
1,3,5-Trimethylbenzene	20.00	19.39	97	75-120	YES
4-Chlorotoluene	20.00	19.61	98	80-120	YES
tert-Butylbenzene	20.00	17.92	90	80-120	YES
Pentachloroethane	20.00	22.21	111	76-120	YES
1,2,4-Trimethylbenzene	20.00	19.48	97	74-120	YES
sec-Butylbenzene	20.00	18.23	91	78-120	YES
p-Isopropyltoluene	20.00	18.27	91	80-120	YES
1,3-Dichlorobenzene	20.00	19.33	97	80-120	YES
1,4-Dichlorobenzene	20.00	19.91	100	80-120	YES
1,2,3-Trimethylbenzene	20.00	19.78	99	80-120	YES
Benzyl Chloride	20.00	18.53	93	69-120	YES
1,3-Diethylbenzene	20.00	18.27	91	80-120	YES
1,4-Diethylbenzene	20.00	18.73	94	77-120	YES
n-Butylbenzene	20.00	18.58	93	74-120	YES
1,2-Dichlorobenzene	20.00	19.70	99	80-120	YES
1,2-Diethylbenzene	20.00	18.49	92	80-120	YES
1,2-Dibromo-3-Chloropropane	20.00	16.48	82	66-120	YES
1,2,4-Trichlorobenzene	20.00	15.28	76	67-120	YES
Hexachlorobutadiene	20.00	16.79	84	58-120	YES
Naphthalene	20.00	14.74	74	62-120	YES
1,2,3-Trichlorobenzene	20.00	16.21	81	65-120	YES
2-Methylnaphthalene	20.00	6.40	32	36-120	NO
Diethylbenzene (total)	60.00	55.49	92	80-120	YES

N/C = Could not calculate

PTL94 9842

Lab Chronicle: _____ Ent. by _____

Ver. by _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: yd10b06.d Lab Sample ID: VBLKY40

Date Analyzed: 12/10/09 Time Analyzed: 16:25

Matrix (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP09355

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCSY40	LCSY40	yd10l05.d	16:04
02	PA19D	5859196	yd10s30.d	17:05
03	PA19DMS	5859197	yd10s31.d	17:26
04	PA19DMSD	5859198	yd10s32.d	17:47
05	PATE1	5859183	yd10s33.d	18:08
06	PATP7	5859184	yd10s34.d	18:29
07	PAT7A	5859185	yd10s35.d	18:50
08	PAT10	5859186	yd10s36.d	19:11
09	PATE2	5859187	yd10s37.d	19:32
10	PAT15	5859188	yd10s38.d	19:53
11	PATD1	5859189	yd10s39.d	20:14
12	PAT16	5859190	yd10s40.d	20:35
13	PAT17	5859191	yd10s41.d	20:56
14	PAT18	5859192	yd10s42.d	21:17
15	PATT-	5859193	yd10s43.d	21:37
16	PA18D	5859194	yd10s44.d	21:58
17	PA19S	5859195	yd10s45.d	22:18
18	PATD2	5859199	yd10s46.d	22:39
19	PA20S	5859200	yd10s47.d	23:00
20	PA20D	5859201	yd10s48.d	23:21
21	TTC04DL	5857830	yd10s49.d	23:42
22	SEMB3	5858912	yd10s50.d	00:03
23	PAT10DL	5859186	yd10s52.d	00:58

COMMENTS: Y093442AA

PTL04 8843

FORM IV VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: yc19t09.d BFB Injection Date: 10/19/09

Instrument ID: HP09355 BFB Injection Time: 23:13

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	19.5
75	30.0 - 60.0% of mass 95	49.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	89.8
175	5.0 - 9.0% of mass 174	6.6 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	86.6 (96.4)1
177	5.0 - 9.0% of mass 176	5.6 (6.5)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	VSTD300	VSTD300	yc19i01.d	10/19/09	23:36
02	VSTD050	VSTD050	yc19i03.d	10/20/09	00:17
03	VSTD020	VSTD020	yc19i04.d	10/20/09	00:38
04	VSTD010	VSTD010	yc19i05.d	10/20/09	00:59
05	VSTD004	VSTD004	yc19i06.d	10/20/09	01:20
06	MDL001	MDL001	yc19m01.d	10/20/09	01:42
07	VSTD100	VSTD100	yc19i07.d	10/20/09	02:15
08	MDL002	MDL002	yc19m02.d	10/20/09	03:18
09	LCSYICV	LCSYICV	yc19v01.d	10/20/09	03:39

PTL84 0844

FORM V VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: yd10t02.d BFB Injection Date: 12/10/09

Instrument ID: HP09355 BFB Injection Time: 15:01

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	18.6
75	30.0 - 60.0% of mass 95	48.4
95	Base peak, 100% relative abundance	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	Greater than 50.0% of mass 95	97.2
175	5.0 - 9.0% of mass 174	7.2 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	94.4 (97.1)1
177	5.0 - 9.0% of mass 176	6.3 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	yd10c05.d	12/10/09	15:22
02	LCSY40	LCSY40	yd10l05.d	12/10/09	16:04
03	VBLKY40	VBLKY40	yd10b06.d	12/10/09	16:25
04	PA19D	5859196	yd10s30.d	12/10/09	17:05
05	PA19DMS	5859197	yd10s31.d	12/10/09	17:26
06	PA19DMSD	5859198	yd10s32.d	12/10/09	17:47
07	PATE1	5859183	yd10s33.d	12/10/09	18:08
08	PATP7	5859184	yd10s34.d	12/10/09	18:29
09	PAT7A	5859185	yd10s35.d	12/10/09	18:50
10	PAT10	5859186	yd10s36.d	12/10/09	19:11
11	PATE2	5859187	yd10s37.d	12/10/09	19:32
12	PAT15	5859188	yd10s38.d	12/10/09	19:53
13	PATD1	5859189	yd10s39.d	12/10/09	20:14
14	PAT16	5859190	yd10s40.d	12/10/09	20:35
15	PAT17	5859191	yd10s41.d	12/10/09	20:56
16	PAT18	5859192	yd10s42.d	12/10/09	21:17
17	PATT-	5859193	yd10s43.d	12/10/09	21:37
18	PA18D	5859194	yd10s44.d	12/10/09	21:58
19	PA19S	5859195	yd10s45.d	12/10/09	22:18
20	PATD2	5859199	yd10s46.d	12/10/09	22:39
21	PA20S	5859200	yd10s47.d	12/10/09	23:00
22	PA20D	5859201	yd10s48.d	12/10/09	23:21

PTL04 0645

FORM V VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: yd10t02.d BFB Injection Date: 12/10/09

Instrument ID: HP09355 BFB Injection Time: 15:01

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	18.6
75	30.0 - 60.0% of mass 95	48.4
95	Base peak, 100% relative abundance	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	Greater than 50.0% of mass 95	97.2
175	5.0 - 9.0% of mass 174	7.2 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	94.4 (97.1)1
177	5.0 - 9.0% of mass 176	6.3 (6.7)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
23	TTC04DL	5857830	yd10s49.d	12/10/09	23:42
24	SEMB3	5858912	yd10s50.d	12/11/09	00:03
25	PAT10DL	5859186	yd10s52.d	12/11/09	00:58

FTL04 0046

FORM V VOA

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): yd10c05.d Date Analyzed: 12/10/09

Instrument ID: HP09355 Time Analyzed: 15:22

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(TBA) AREA #	RT #	IS2(FBZ) AREA #	RT #	IS3(CBZ) AREA #	RT #	IS4(DCB) AREA #	RT #
	12 HOUR STD	184860	2.346	1175523	4.548	862020	7.724	563115	9.665
	UPPER LIMIT	369720	2.846	2351046	5.048	1724040	8.224	1126230	10.165
	LOWER LIMIT	92430	1.846	587762	4.048	431010	7.224	281558	9.165
	EPA SAMPLE NO.								
01	LCSY40	169530	2.352	1188157	4.554	866594	7.724	561910	9.659
02	VBLKY40	163662	2.340	1101638	4.548	808619	7.718	491216	9.665
03	PA19D	183031	2.334	1083654	4.542	797845	7.718	478622	9.658
04	PA19DMS	169615	2.340	1122239	4.554	825575	7.718	541527	9.658
05	PA19DMSD	173129	2.346	1178632	4.548	865110	7.718	560047	9.658
06	PATE1	206608	2.340	1090727	4.548	809007	7.718	491519	9.659
07	PATP7	190886	2.358	1056850	4.548	785350	7.718	472555	9.659
08	PAT7A	161699	2.346	1038677	4.548	768561	7.718	469929	9.658
09	PAT10	153216	2.352	1034325	4.548	767744	7.718	463623	9.658
10	PATE2	151751	2.346	1010893	4.548	754848	7.718	456790	9.658
11	PAT15	186053	2.358	998613	4.548	742615	7.718	452211	9.659
12	PATD1	186312	2.346	1000815	4.548	739668	7.718	448788	9.664
13	PAT16	177760	2.352	993831	4.548	725800	7.718	446572	9.658
14	PAT17	160198	2.346	988328	4.548	725166	7.718	440320	9.659
15	PAT18	148129	2.340	969309	4.548	715481	7.718	429219	9.659
16	PATT-	166883	2.346	956428	4.542	708165	7.718	431595	9.659
17	PA18D	159908	2.346	948695	4.542	705685	7.718	428528	9.659
18	PA19S	150363	2.352	941565	4.548	696337	7.718	424134	9.659
19	PATD2	149822	2.346	934851	4.548	694339	7.718	419809	9.659
20	PA20S	161025	2.346	929808	4.548	677895	7.718	408656	9.659
21	PA20D	137058	2.352	921328	4.548	678519	7.718	407459	9.658
22	TTC04DL			922851	4.548	672870	7.718	410098	9.658

IS1 (TBA)=t-Butyl Alcohol-d10
IS2 (FBZ)=Fluorobenzene
IS3 (CBZ)=Chlorobenzene-d5
IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

PTL04 0047

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

FORM VIII VOA

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): yd10c05.d Date Analyzed: 12/10/09

Instrument ID: HP09355 Time Analyzed: 15:22

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(TBA) AREA #	RT #	IS2(FBZ) AREA #	RT #	IS3(CBZ) AREA #	RT #	IS4(DCB) AREA #	RT #
	12 HOUR STD	184860	2.346	1175523	4.548	862020	7.724	563115	9.665
	UPPER LIMIT	369720	2.846	2351046	5.048	1724040	8.224	1126230	10.165
	LOWER LIMIT	92430	1.846	587762	4.048	431010	7.224	281558	9.165
	EPA SAMPLE NO.								
23	SEMB3			1059121	4.548	778904	7.712	502162	9.659
24	PAT10DL	167235	2.334	994797	4.542	730006	7.712	432843	9.658

IS1 (TBA)=t-Butyl Alcohol-d10
IS2 (FBZ)=Fluorobenzene
IS3 (CBZ)=Chlorobenzene-d5
IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

PTL84 0848

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

FORM VIII VOA

Sample Data

PTL84 8849

EPA SW-846 8260B Water LOQ/MDL

	Compound Name	LOQ	MDL	Units
	Dichlorodifluoromethane	5	2	ug/l
	Chloromethane	5	1	ug/l
	Vinyl Chloride	5	1	ug/l
	Bromomethane	5	1	ug/l
	Chloroethane	5	1	ug/l
	Trichlorofluoromethane	5	2	ug/l
	1,1-Dichloroethene	5	0.8	ug/l
	Methylene Chloride	5	2	ug/l
	trans-1,2-Dichloroethene	5	0.8	ug/l
	1,1-Dichloroethane	5	1	ug/l
	2,2-Dichloropropane	5	1	ug/l
	cis-1,2-Dichloroethene	5	0.8	ug/l
	Chloroform	5	0.8	ug/l
	Bromochloromethane	5	1	ug/l
	1,1,1-Trichloroethane	5	0.8	ug/l
	Carbon Tetrachloride	5	1	ug/l
	1,1-Dichloropropene	5	1	ug/l
	Benzene	5	0.5	ug/l
	1,2-Dichloroethane	5	1	ug/l
	Trichloroethene	5	1	ug/l
	1,2-Dichloropropane	5	1	ug/l
	Dibromomethane	5	1	ug/l
	Bromodichloromethane	5	1	ug/l
	Toluene	5	0.7	ug/l
	1,1,2-Trichloroethane	5	0.8	ug/l
	Tetrachloroethene	5	0.8	ug/l
	1,3-Dichloropropane	5	1	ug/l
	Dibromochloromethane	5	1	ug/l
	1,2-Dibromoethane	5	1	ug/l
	Chlorobenzene	5	0.8	ug/l
	Acetone	20	6	ug/l
	Carbon Disulfide	5	1	ug/l
	2-Butanone	10	3	ug/l
	trans-1,3-Dichloropropene	5	1	ug/l
	cis-1,3-Dichloropropene	5	1	ug/l
	4-Methyl-2-pentanone	10	3	ug/l
	2-Hexanone	10	3	ug/l
	Xylene (Total)	5	0.8	ug/l
	Acrolein	100	40	ug/l
	1,1,1,2-Tetrachloroethane	5	1	ug/l
	Ethylbenzene	5	0.8	ug/l
	m+p-Xylene	5	0.8	ug/l
	o-Xylene	5	0.8	ug/l
	Styrene	5	1	ug/l
	Bromoform	5	1	ug/l
	Isopropylbenzene	5	1	ug/l
	1,1,2,2-Tetrachloroethane	5	1	ug/l
	Bromobenzene	5	1	ug/l
	1,2,3-Trichloropropane	5	1	ug/l

PTL84 3050

EPA SW-846 8260B Water LOQ/MDL

	Compound Name	LOQ	MDL	Units
	n-Propylbenzene	5	1	ug/l
	2-Chlorotoluene	5	1	ug/l
	1,3,5-Trimethylbenzene	5	1	ug/l
	4-Chlorotoluene	5	1	ug/l
	tert-Butylbenzene	5	1	ug/l
	1,2,4-Trimethylbenzene	5	1	ug/l
	sec-Butylbenzene	5	1	ug/l
	p-Isopropyltoluene	5	1	ug/l
	1,3-Dichlorobenzene	5	1	ug/l
	1,4-Dichlorobenzene	5	1	ug/l
	n-Butylbenzene	5	1	ug/l
	1,2-Dichlorobenzene	5	1	ug/l
	1,2-Dibromo-3-chloropropane	5	2	ug/l
	1,2,4-Trichlorobenzene	5	1	ug/l
	Hexachlorobutadiene	5	2	ug/l
	Naphthalene	5	1	ug/l
	1,2,3-Trichlorobenzene	5	1	ug/l
	Methyl Iodide	5	1	ug/l
	Acrylonitrile	20	4	ug/l
	trans-1,4-Dichloro-2-butene	50	15	ug/l
	Allyl Chloride	5	1	ug/l
	2-Chloro-1,3-butadiene	5	1	ug/l
	Propionitrile	100	30	ug/l
	Methacrylonitrile	50	10	ug/l
	Isobutyl Alcohol	250	100	ug/l
	1,4-Dioxane	250	70	ug/l
	Pentachloroethane	5	1	ug/l
	Methyl t-butyl ether	5	0.5	ug/l
	di-Isopropyl ether	5	0.8	ug/l
	Ethyl t-butyl ether	5	0.8	ug/l
	t-Amyl methyl ether	5	0.8	ug/l
	t-Butyl alcohol	100	10	ug/l
	Ethyl ether	5	2	ug/l
	Tetrahydrofuran	10	4	ug/l
	2-Propanol	100	50	ug/l
	n-Hexane	5	2	ug/l
	Cyclohexane	5	2	ug/l
	n-Heptane	5	2	ug/l
	n-Butanol	250	100	ug/l
	Methyl Methacrylate	5	1	ug/l
	Ethyl Methacrylate	5	1	ug/l
	2-Chloroethyl Vinyl Ether	10	2	ug/l
	Freon 113	10	2	ug/l

PTL84 0851

EPA SW-846 8260B Water LOQ/MDL

	Compound Name	LOQ	MDL	Units
	Vinyl Acetate	10	2	ug/l
	Acetonitrile	100	25	ug/l
	Ethyl Acetate	5	1	ug/l
	2-Methylnaphthalene	5	2	ug/l
	1,3-Diethylbenzene	5	1	ug/l
	1,4-Diethylbenzene	5	1	ug/l
	1,2-Diethylbenzene	5	1	ug/l
	n-Pentane	10	2	ug/l
	Isopropyl Acetate	5	1	ug/l
	n-Propyl Acetate	5	1	ug/l
	Butyl Acetate	10	2	ug/l

PTL84 0052

PATE1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859183

File: /chem2/HP09355.i/09dec10b.b/yd10s33.d
Sample: PATE1;5859183;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:08
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.340(0.006)	248	65	206608(12)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	1090727(-7)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	809007(-6)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	491519(-13)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.891(0.001)	113	272738	49.063	98%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	66605	46.693	93%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	1049058	46.780	94%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	388799	46.005	92%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)	3.745(0.000)	83	8583	0.888	0.89		J	0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 5853

PATE1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859183

File: /chem2/HP09355.i/09dec10b.b/yd10s33.d
Sample: PATE1;5859183;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:08
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PATE1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859183

File: /chem2/HP09355.i/09dec10b.b/yd10s33.d
Sample: PATE1;5859183;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:08
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

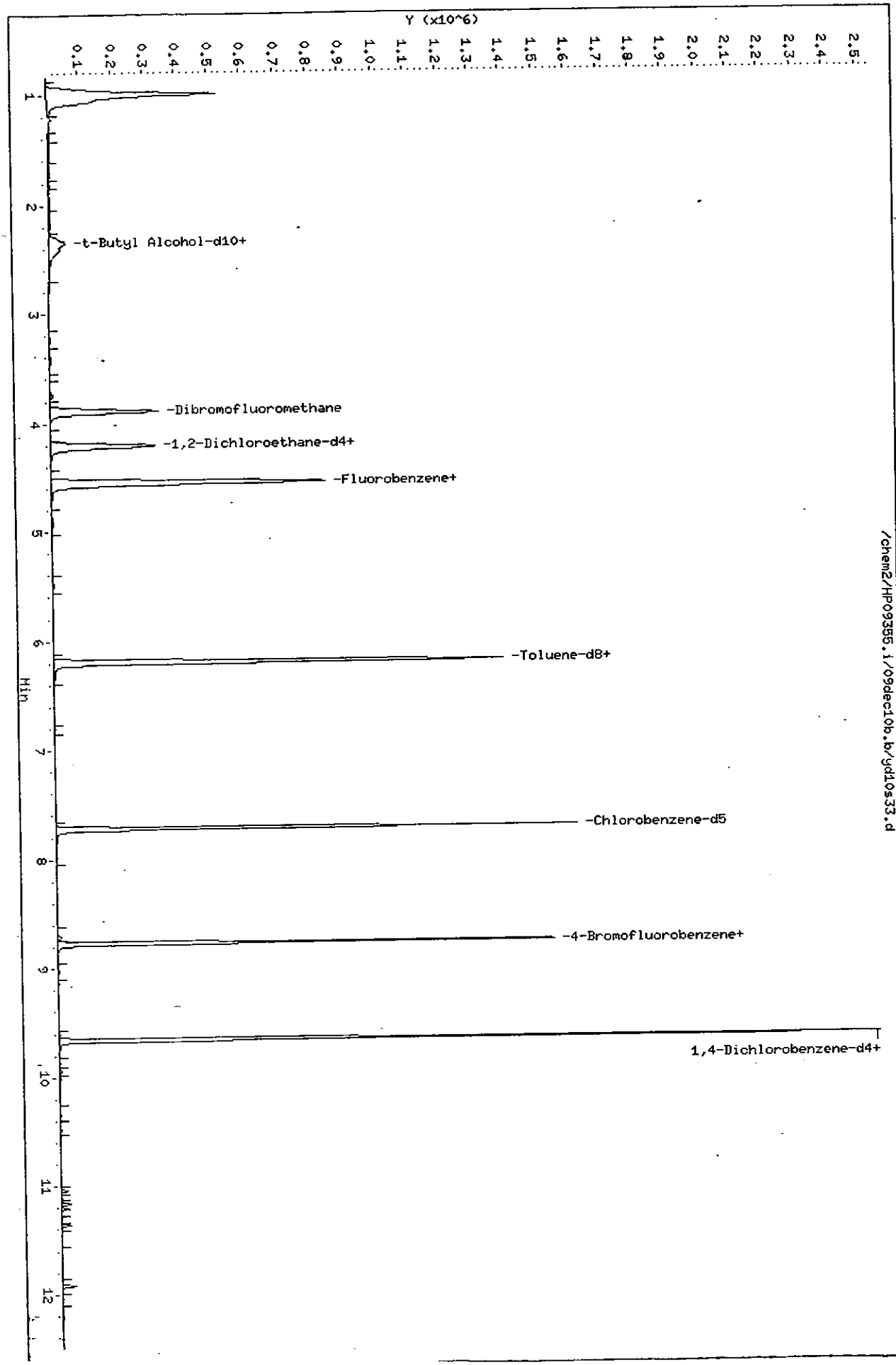
Analyst: U Moor Date: 12/12/09

Auditor: [signature] Date: 12/18/09

PTL04 8055

Data File: /chem2/HP09355.i/09dec10b.b/yd10s33.d
Date : 10-DEC-2009 18:08
Client ID: PATE1
Sample Info: PATE1;58591831;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s33.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 18:08 Analyst ID: NRR01826

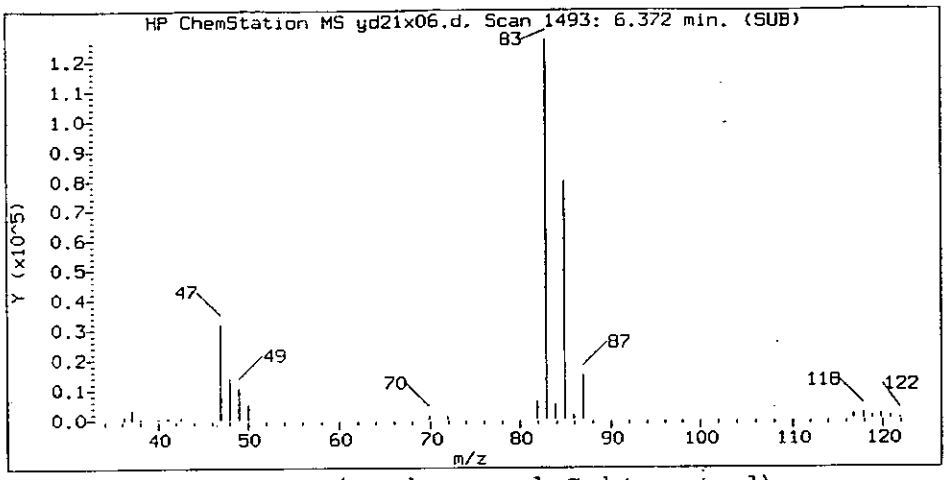
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 21:37 maz02012

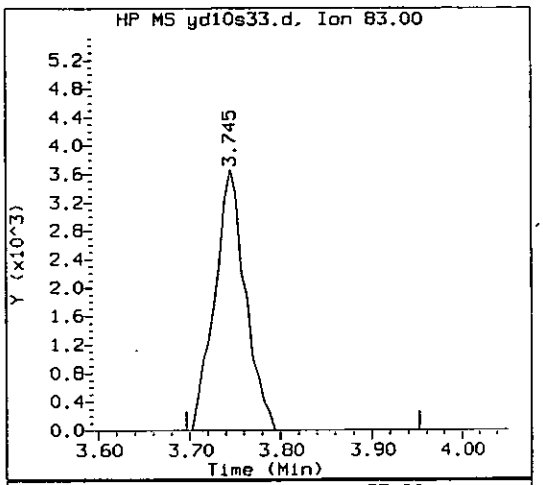
Sample Name: PATE1 Lab Sample ID: 5859183

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
28)*t-Butyl Alcohol-d10	(4)	2.340	65	206608	250.000
50) Chloroform	(1)	3.745	83	8583	0.888
71)*Fluorobenzene	(1)	4.548	96	1090727	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	809007	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	491519	50.000
52)$Dibromofluoromethane	(1)	3.891	113	272738	49.063
62)$1,2-Dichloroethane-d4	(1)	4.208	102	66605	46.693
93)$Toluene-d8	(2)	6.191	98	1049058	46.780
119)$4-Bromofluorobenzene	(2)	8.764	95	388799	46.005

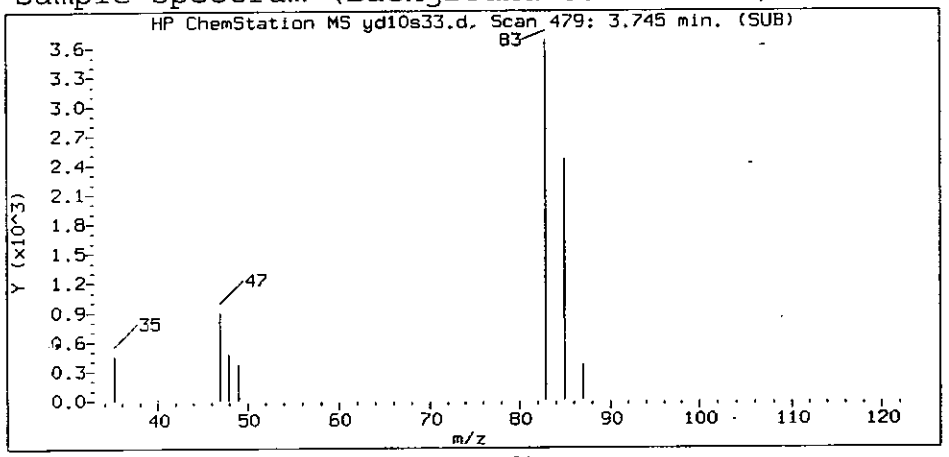
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

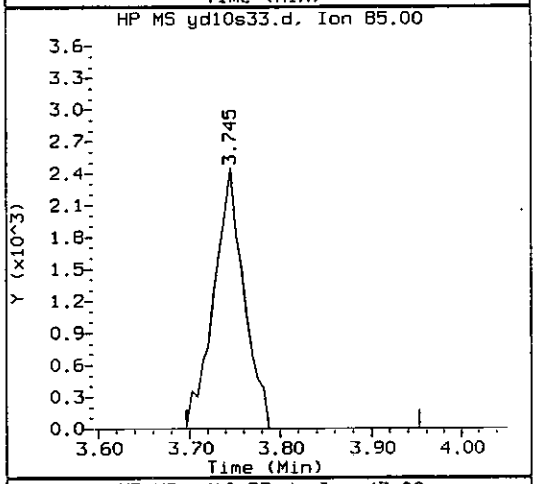
Reference Standard Spectrum for Chloroform



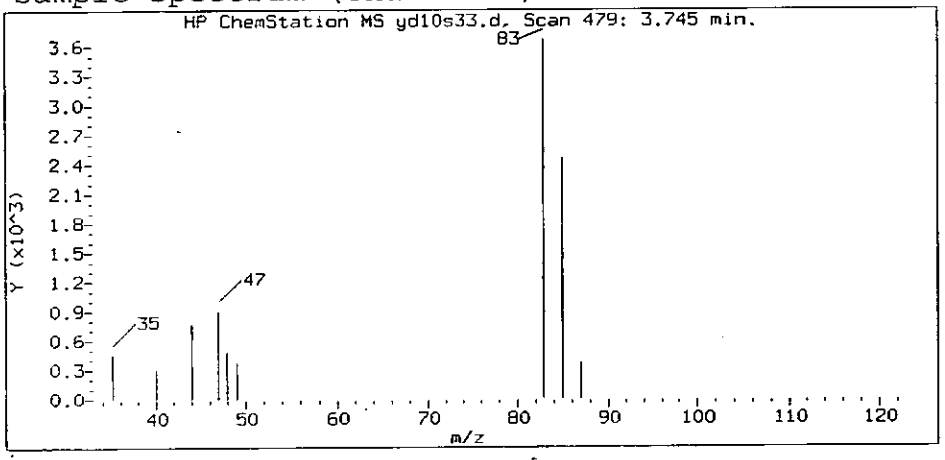


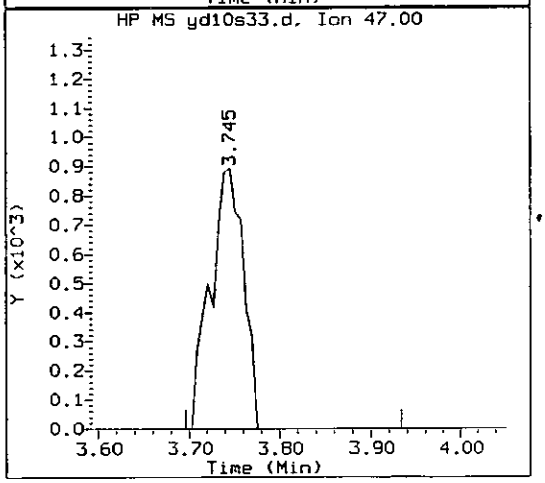
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s33.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 18:08 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 21:37 maz02012

Sample Name: PATE1 Lab Sample ID: 5859183

Compound Number	: 50
Compound Name	: Chloroform
Scan Number	: 479
Retention Time (minutes)	: 3.745
Quant Ion	: 83.0
Area (flag)	: 8583
Concentration (ug/L)	: 0.8879

PTL84 0858

PATP7

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859184

File: /chem2/HP09355.i/09dec10b.b/yd10s34.d
Sample: PATP7;5859184;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:29
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.358(-0.012)	251	65	190886(3)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	1056850(-10)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	785350(-9)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	472555(-16)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags.	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.000)	113	267988	49.754	100%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	65716	47.546	95%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	1004202	46.128	92%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	365035	44.494	89%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	142980	30.643	30.64			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)	2.918(0.000)	63	91545	9.353	9.35			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)	3.928(0.000)	97	52139	5.406	5.41			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 0059

PATP7

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859184

File: /chem2/HP09355.i/09dec10b.b/yd10s34.d
Sample: PATP7;5859184;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:29
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PATP7

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859184

File: /chem2/HP09355.i/09dec10b.b/yd10s34.d
Sample: PATP7;5859184;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:29
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: Ulmor Date: 12/18/09

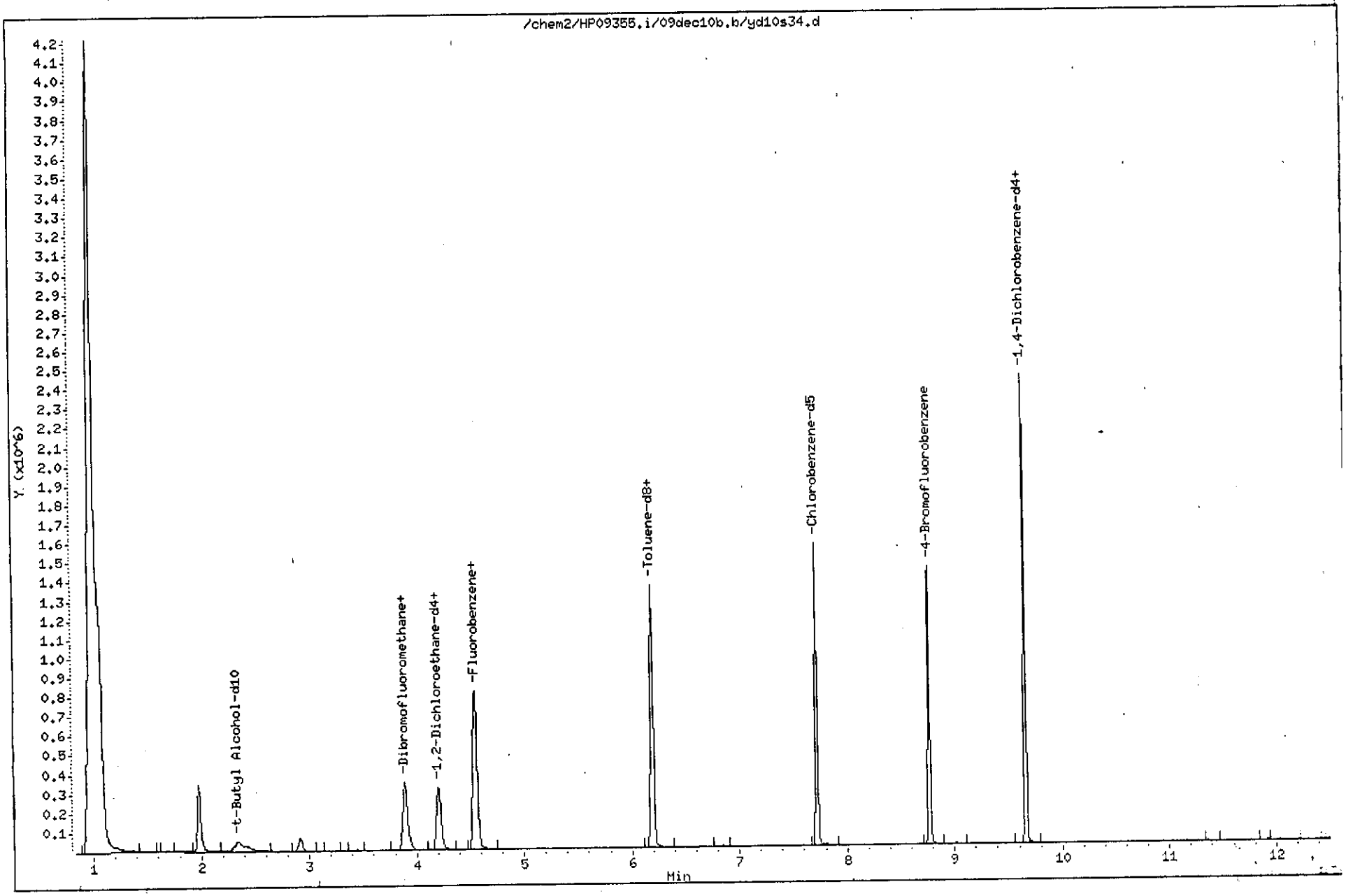
Auditor: Date: 12-18-09

PTLB4 0361

Data File: /chem2/HP09355.i/09dec10b.b/yd10s34.d
Date : 10-DEC-2009 18:29
Client ID: PATP7
Sample Info: PATP7;5859184;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s34.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 18:29 Analyst ID: NRR01826

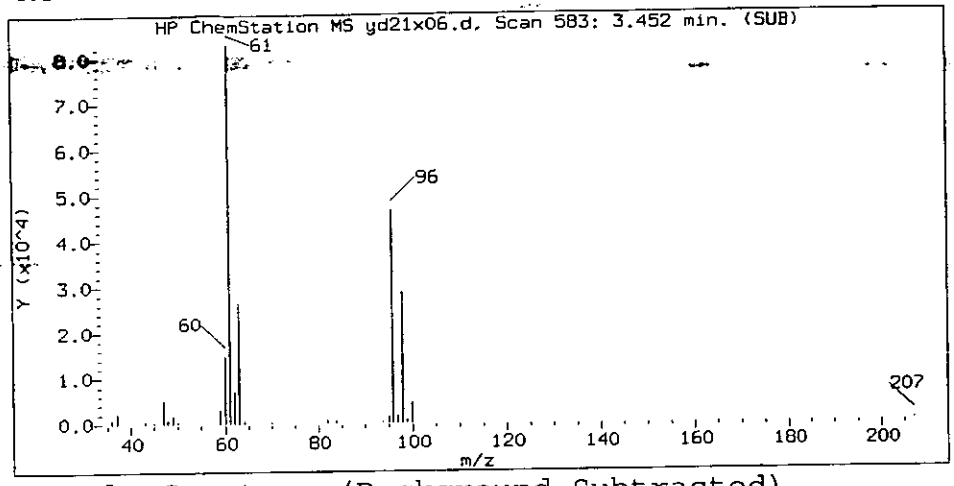
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 21:38 maz02012

Sample Name: PATP7 Lab Sample ID: 5859184

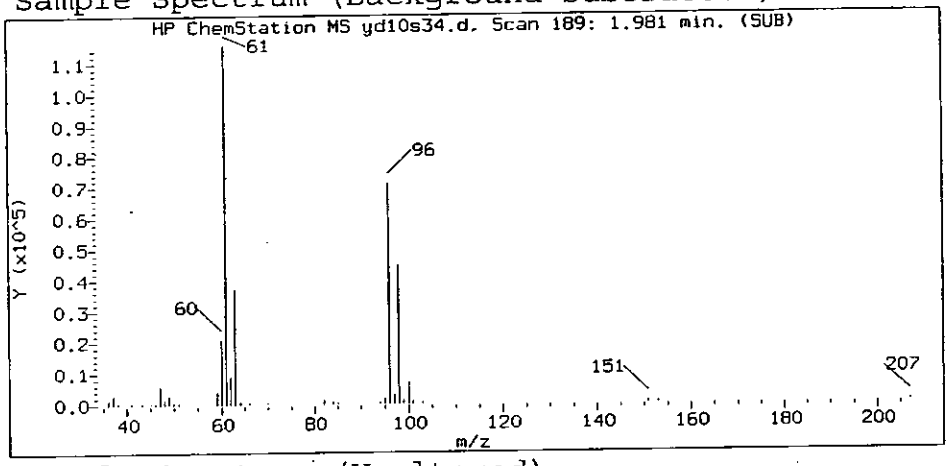
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.981	96	142980	30.643
28) *t-Butyl Alcohol-d10	(4)	2.358	65	190886	250.000
34) 1,1-Dichloroethane	(1)	2.918	63	91545	9.353
53) 1,1,1-Trichloroethane	(1)	3.928	97	52139	5.406
71) *Fluorobenzene	(1)	4.548	96	1056850	50.000
106) *Chlorobenzene-d5	(2)	7.718	117	785350	50.000
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	472555	50.000
52) $Dibromofluoromethane	(1)	3.897	113	267988	49.754
62) $1,2-Dichloroethane-d4	(1)	4.208	102	65716	47.546
93) $Toluene-d8	(2)	6.191	98	1004202	46.128
119) $4-Bromofluorobenzene	(2)	8.764	95	365035	44.494

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

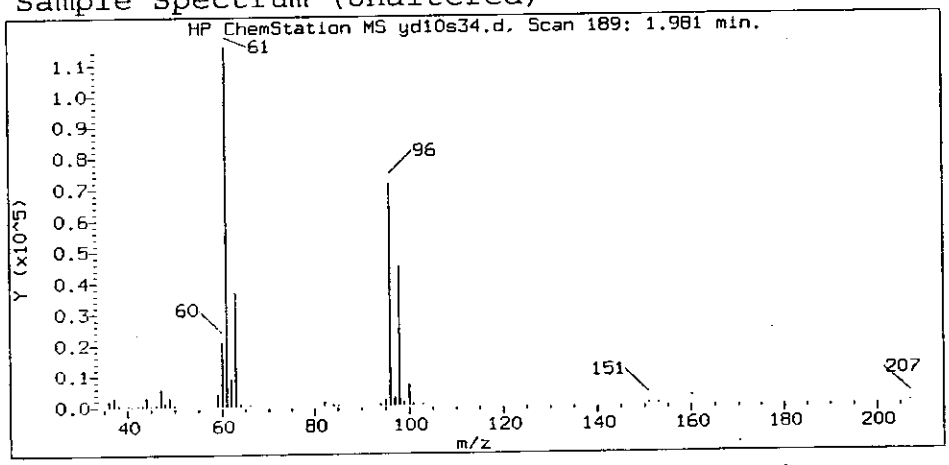
Reference Standard Spectrum for 1,1-Dichloroethene

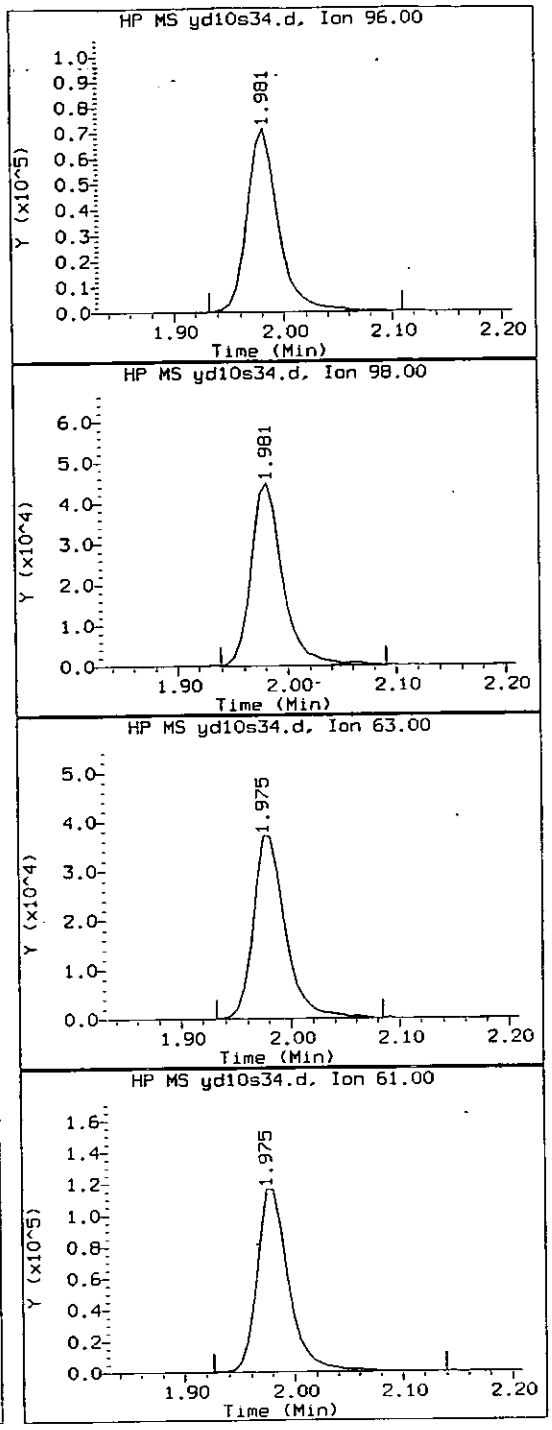


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s34.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 18:29 Analyst ID: NRR01826

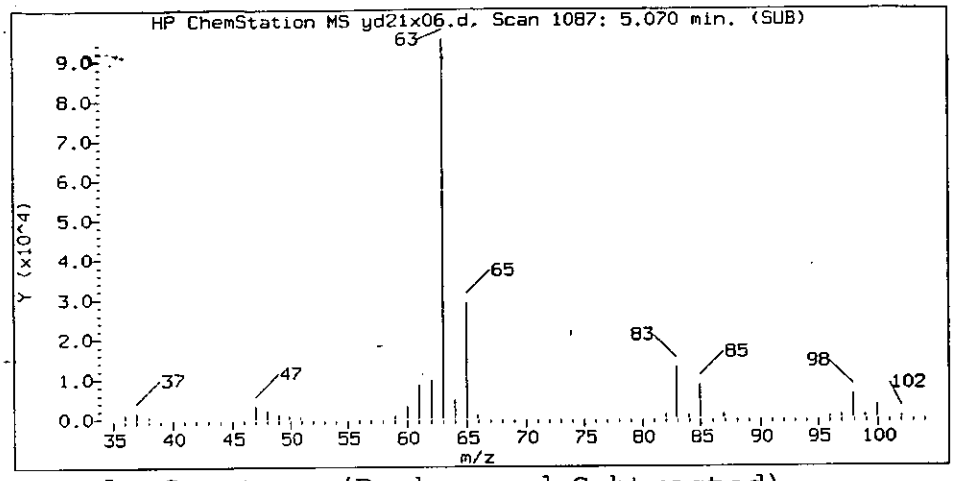
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 21:38 maz02012

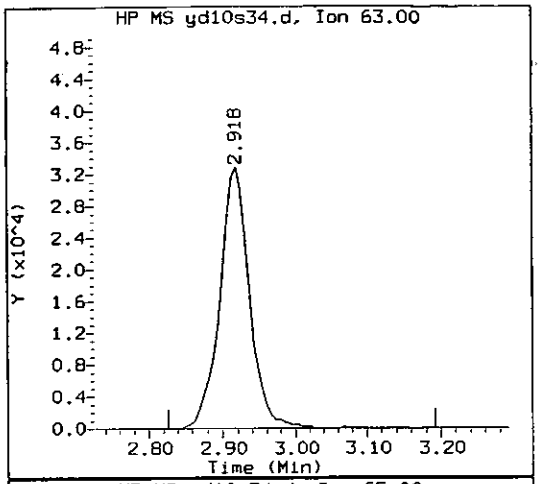
Sample Name: PATP7 Lab Sample ID: 5859184

Compound Number : 16
Compound Name : 1,1-Dichloroethene
Scan Number : 189
Retention Time (minutes) : 1.981
Quant Ion : 96.0
Area (flag) : 142980
Concentration (ug/L) : 30.6430

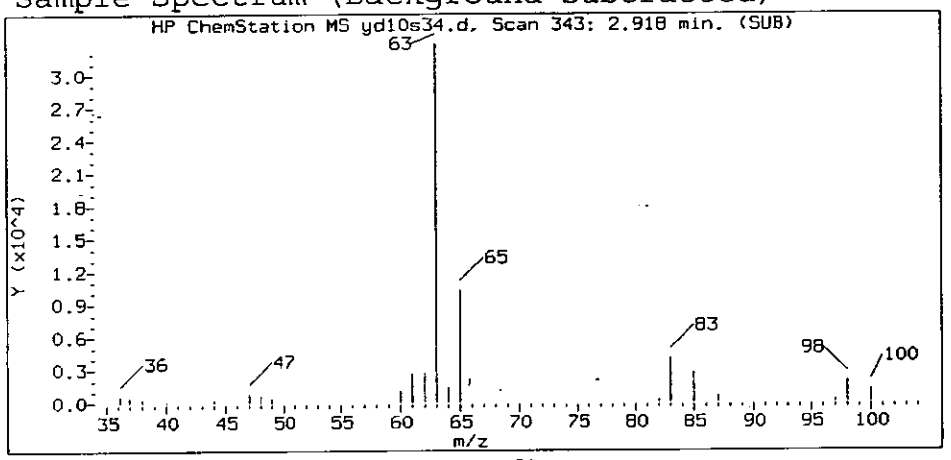
PTL84 0864

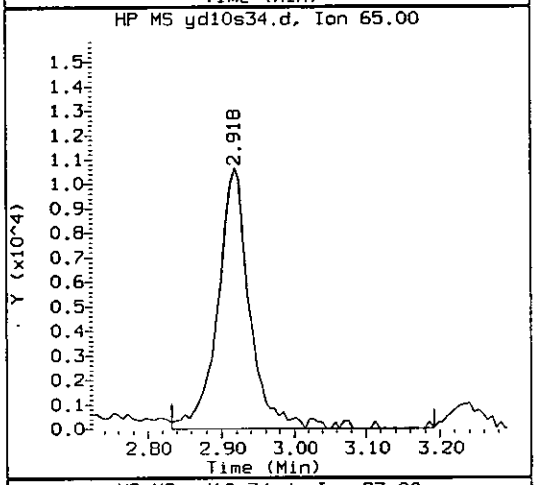
Reference Standard Spectrum for 1,1-Dichloroethane



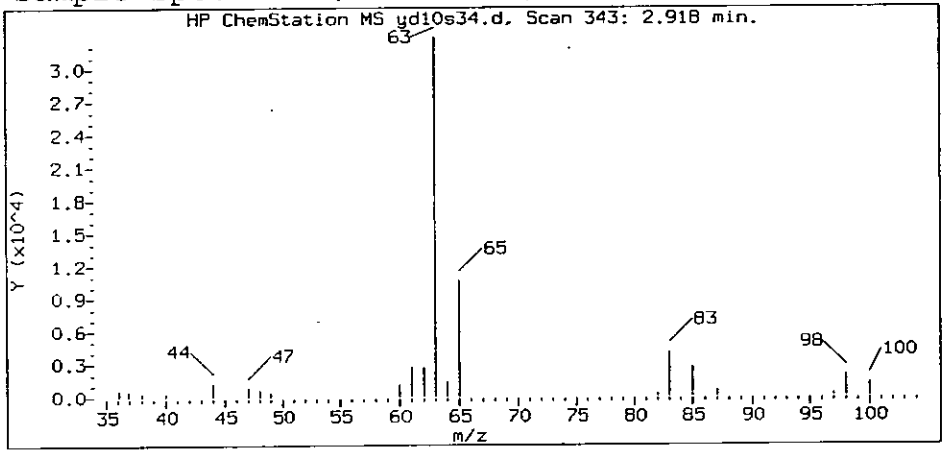


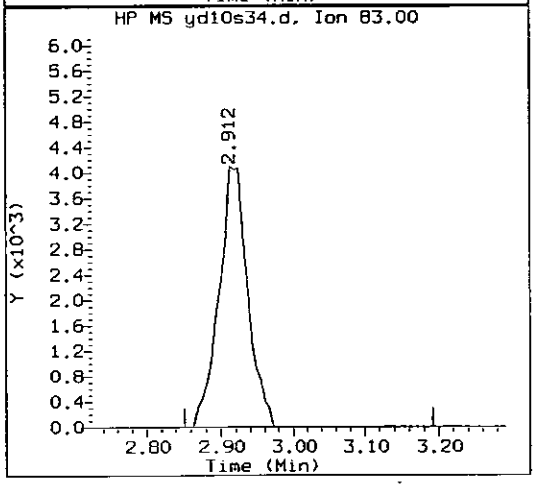
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s34.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 18:29 Analyst ID: NRR01826

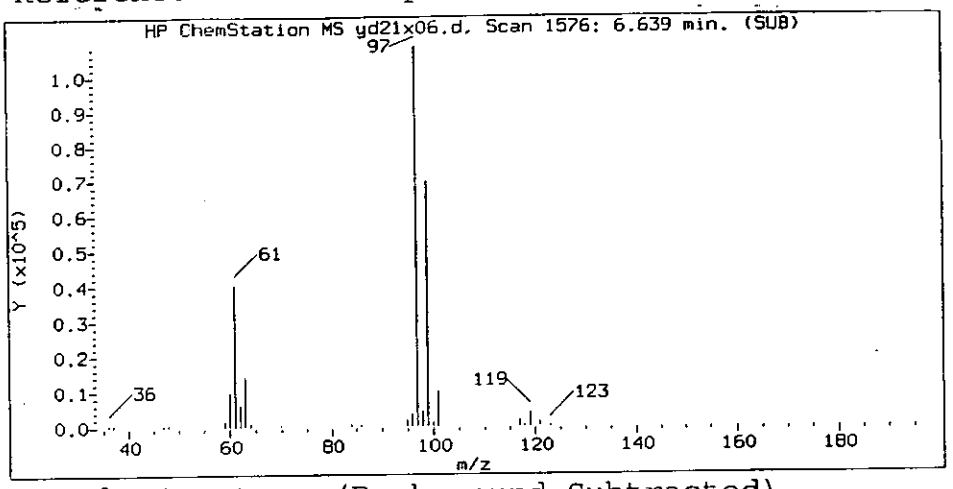
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 21:38 maz02012

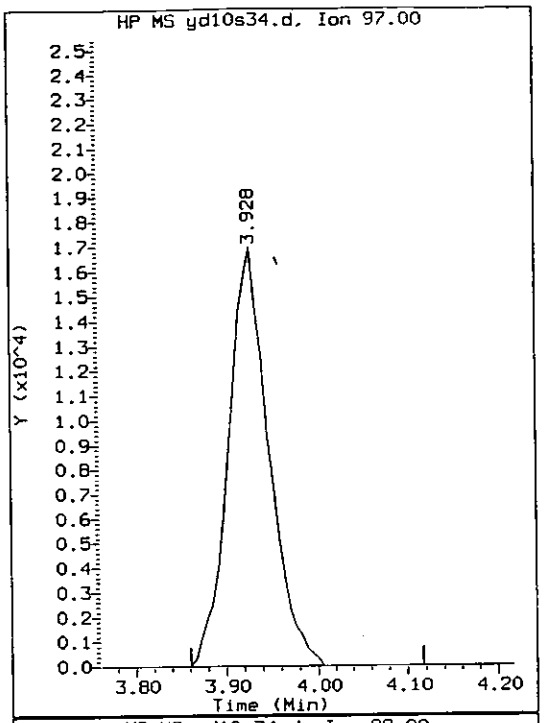
Sample Name: PATP7 Lab Sample ID: 5859184

Compound Number : 34
Compound Name : 1,1-Dichloroethane
Scan Number : 343
Retention Time (minutes) : 2.918
Quant Ion : 63.0
Area (flag) : 91545
Concentration (ug/L) : 9.3527

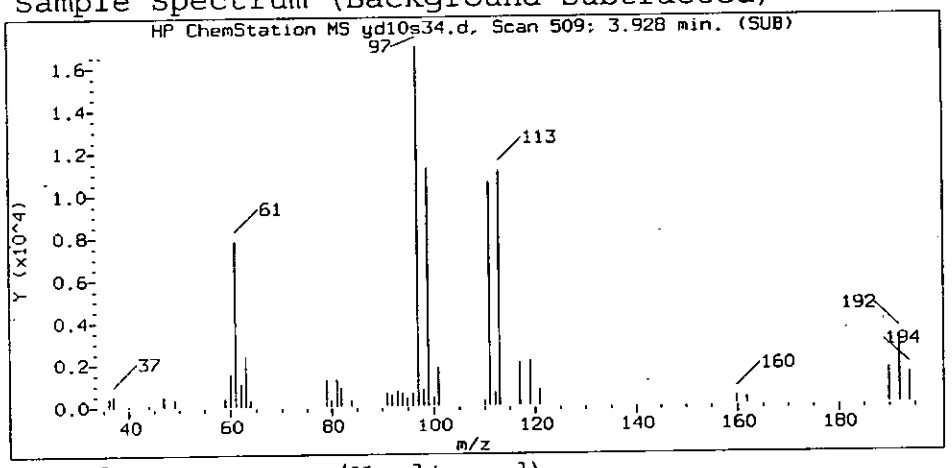
PTL04 0065

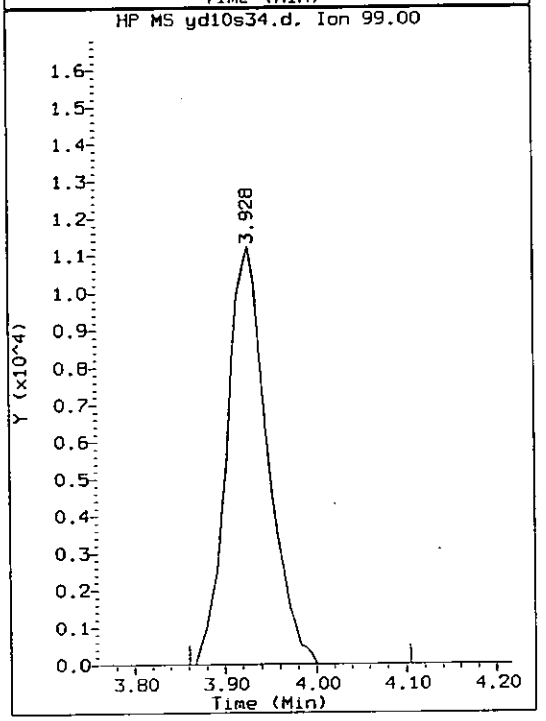
Reference Standard Spectrum for 1,1,1-Trichloroethane



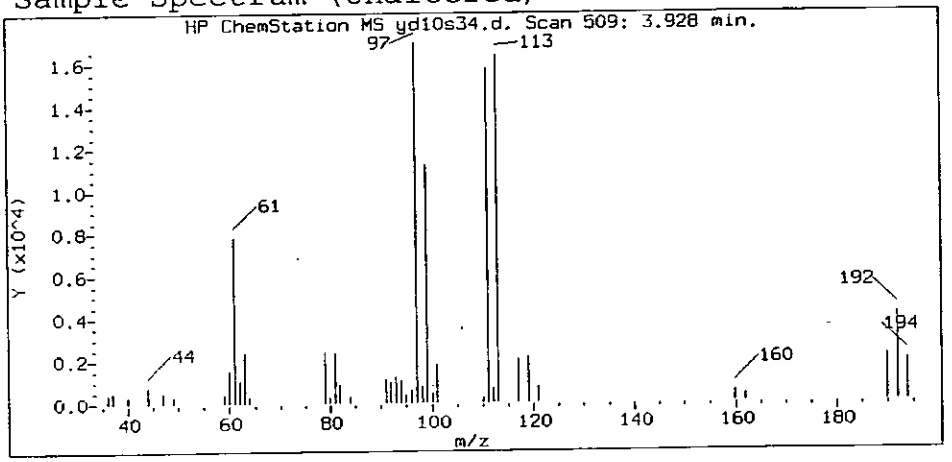


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP09355.i/09dec10b.b/yd10s34.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 18:29 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 21:38 maz02012

Sample Name: PATP7 Lab Sample ID: 5859184

Compound Number : 53
Compound Name : 1,1,1-Trichloroethane
Scan Number : 509
Retention Time (minutes) : 3.928
Quant Ion : 97.0
Area (flag) : 52139
Concentration (ug/L) : 5.4064

PTL04 8066

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s34.d, generated on 12/10/2009 at 21:38

PAT7A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859185

File: /chem2/HP09355.i/09dec10b.b/yd10s35.d
Sample: PAT7A;5859185;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:50
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	161699(-13)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	1038677(-12)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	768561(-11)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	469929(-17)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.000)	113	262861	49.656	99%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.214(-0.001)	102	64600	47.557	95%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	992447	46.584	93%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	357760	44.560	89%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	11482	2.504	2.50		J	0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8867

PAT7A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859185

File: /chem2/HP09355.i/09dec10b.b/yd10s35.d
Sample: PAT7A;5859185;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:50
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 0068

PAT7A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859185

File: /chem2/HP09355.i/09dec10b.b/yd10s35.d
Sample: PAT7A;5859185;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 18:50
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

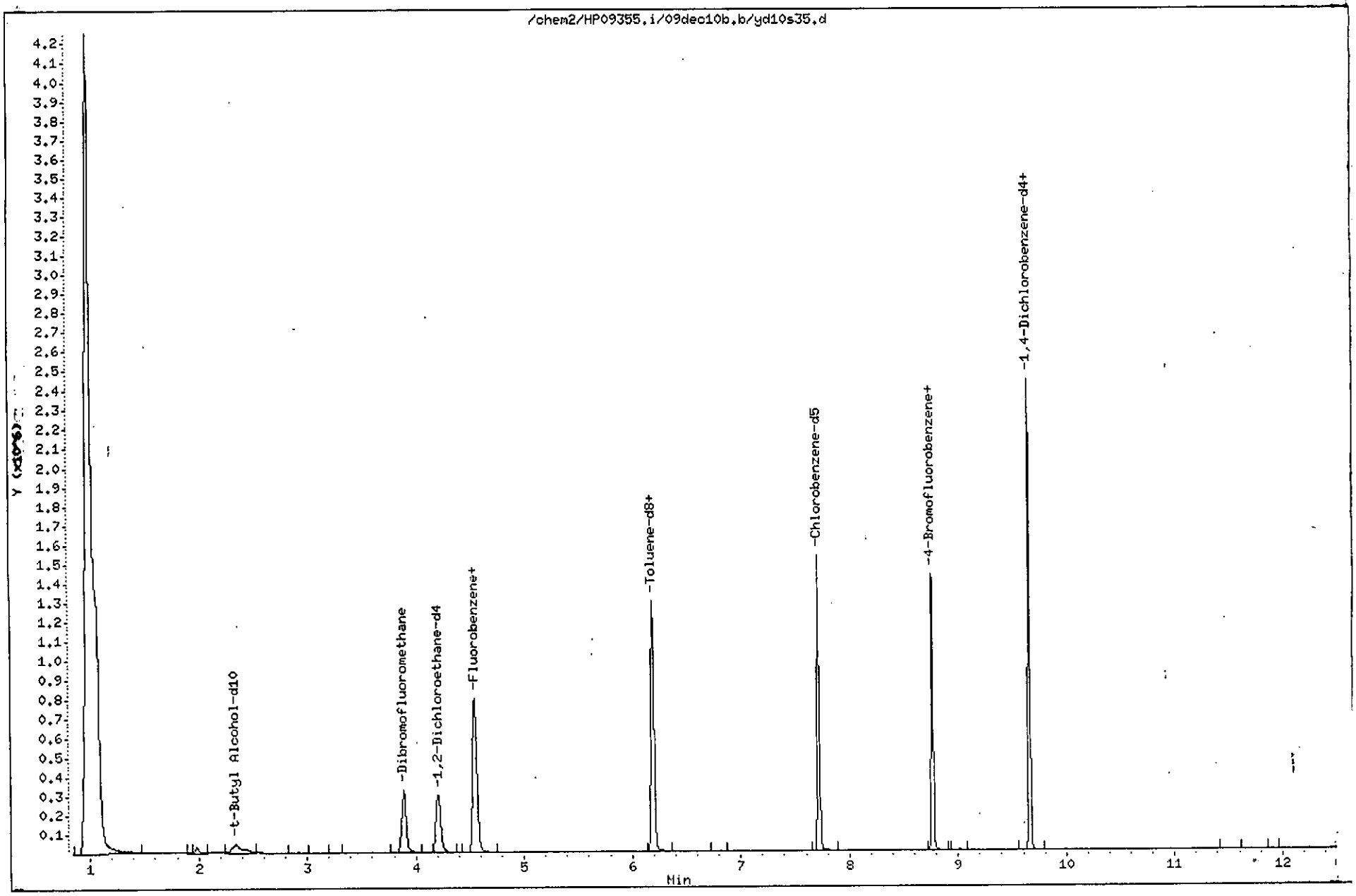
Analyst: [illegible] Date: 12/11/09

Auditor: [illegible] Date: 12-18-09

Data File: /chem2/HP09355.i/09dec10b.b/yd10s35.d
Date : 10-DEC-2009 18:50
Client ID: PAT7A
Sample Info: PAT7A;5859185;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s35.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 18:50 Analyst ID: NRR01826

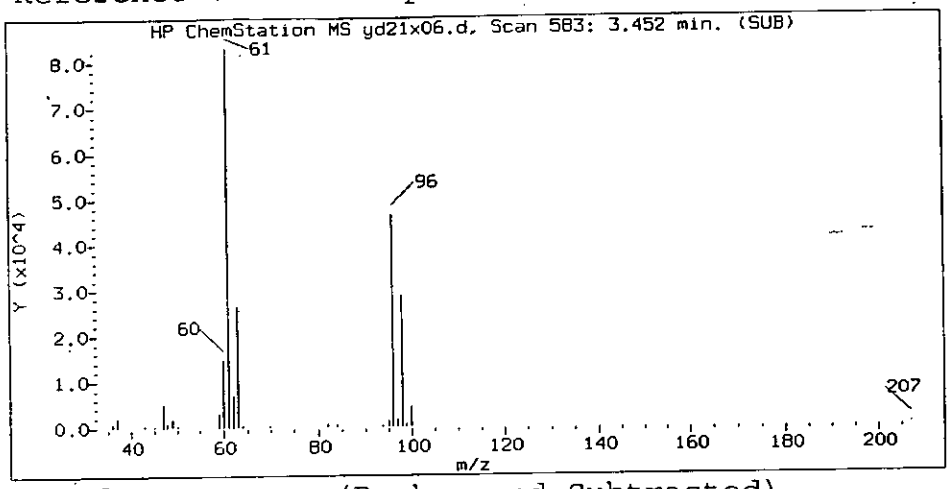
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 21:39 maz02012

Sample Name: PAT7A Lab Sample ID: 5859185

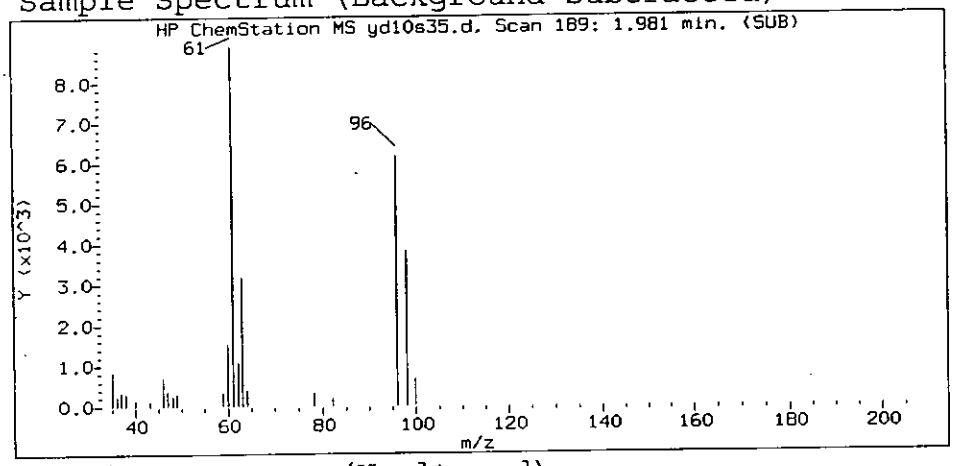
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.981	96	11482	2.504
28) *t-Butyl Alcohol-d10	(4)	2.346	65	161699	250.000
71) *Fluorobenzene	(1)	4.548	96	1038677	50.000
106) *Chlorobenzene-d5	(2)	7.718	117	768561	50.000
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	469929	50.000
52) $Dibromofluoromethane	(1)	3.897	113	262861	49.656
62) $1,2-Dichloroethane-d4	(1)	4.214	102	64600	47.557
93) $Toluene-d8	(2)	6.191	98	992447	46.584
119) $4-Bromofluorobenzene	(2)	8.764	95	357760	44.560

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

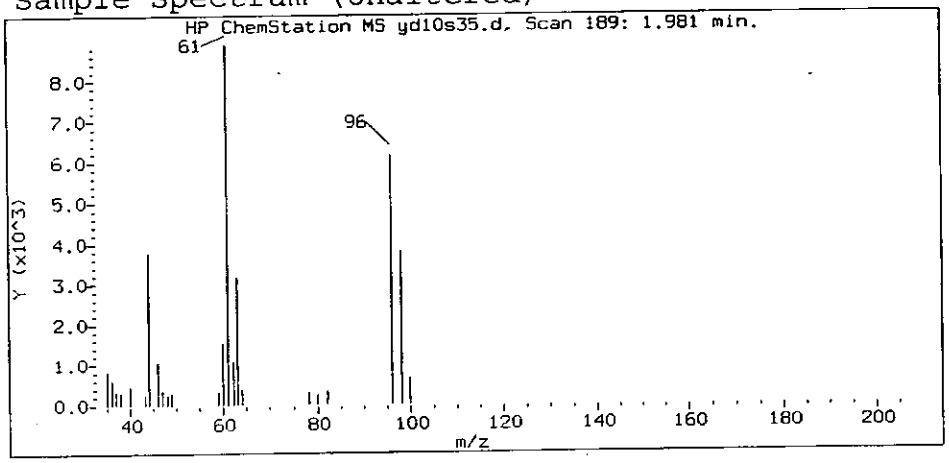
Reference Standard Spectrum for 1,1-Dichloroethene

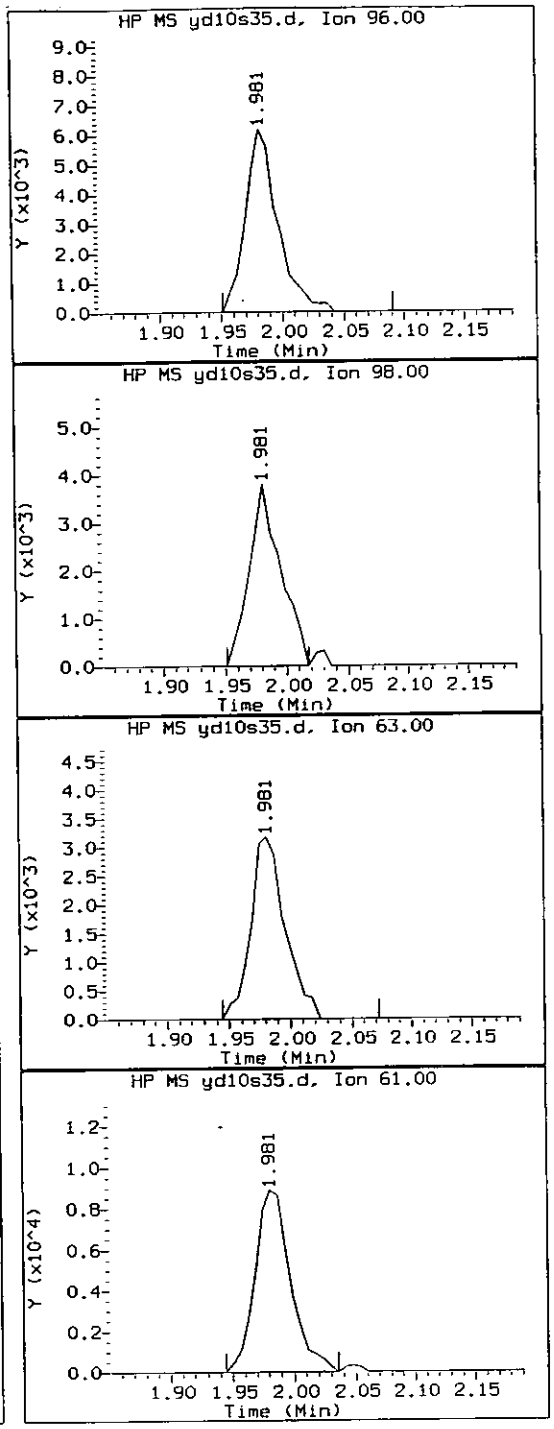


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s35.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 18:50 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 21:39 maz02012

Sample Name: PAT7A Lab Sample ID: 5859185

Compound Number	: 16
Compound Name	: 1,1-Dichloroethene
Scan Number	: 189
Retention Time (minutes)	: 1.981
Quant Ion	: 96.0
Area (flag)	: 11482
Concentration (ug/L)	: 2.5038

PTL84 0072

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s35.d, generated on 12/10/2009 at 21:39

PAT10

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859186

File: /chem2/HP09355.i/09dec10b.b/yd10s36.d
Sample: PAT10;5859186;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:11
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.352(-0.006)	250	65	153216(-17)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	1034325(-12)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	767744(-11)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	463623(-18)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.891(0.001)	113	264164	50.112	100%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	64551	47.721	95%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	988833	46.464	93%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	354716	44.228	88%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)	1.653(-0.001)	101	27304	3.093	3.09		J	2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	4922783	1078.012	1078.01		E	0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)	2.918(0.000)	63	199912	20.869	20.87			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)	3.745(0.000)	83	12908	1.408	1.41		J	0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)	4.287(0.000)	62	14823	1.857	1.86		J	1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8873

PAT10

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859186

File: /chem2/HP09355.i/09dec10b.b/yd10s36.d
Sample: PAT10;5859186;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:11
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8874

PAT10

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859186

File: /chem2/HP09355.i/09dec10b.b/yd10s36.d
Sample: PAT10;5859186;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:11
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

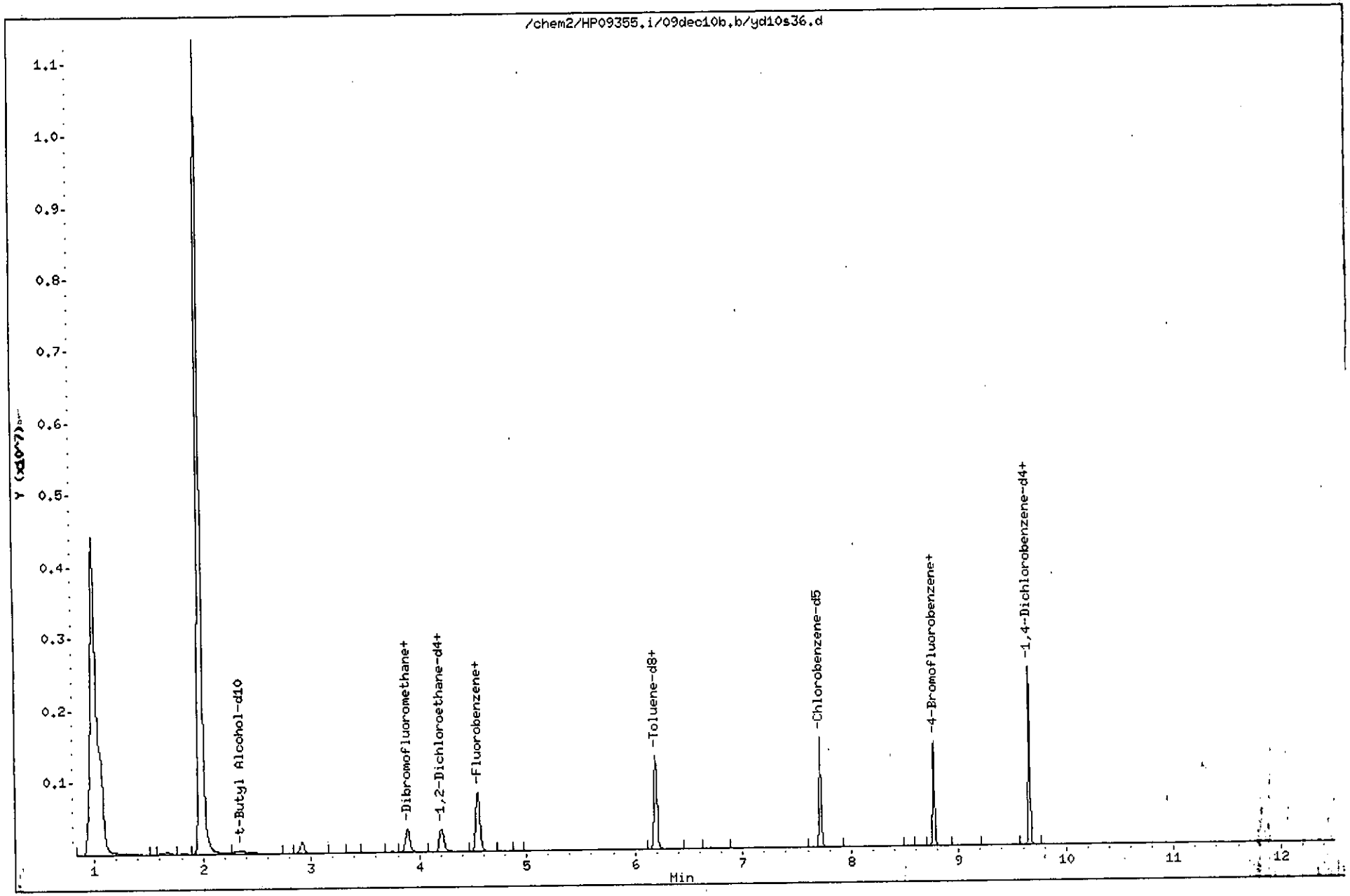
Analyst: Umor Date: 12/11/09

Auditor: [signature] Date: 12-18-09

Data File: /chem2/HP09355.i/09dec10b.b/yd10s36.d
Date : 10-DEC-2009 19:11
Client ID: PAT10
Sample Info: PAT10;5859186;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s36.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:11 Analyst ID: NRR01826

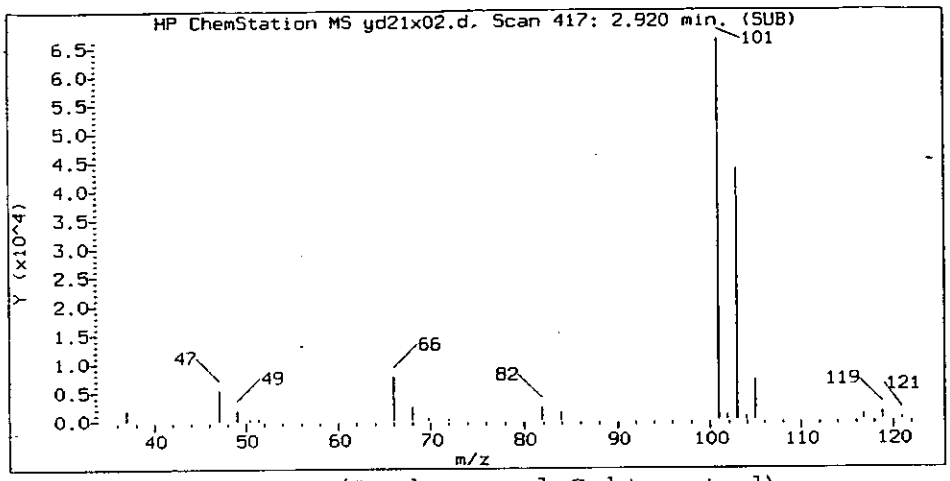
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:12 maz02012

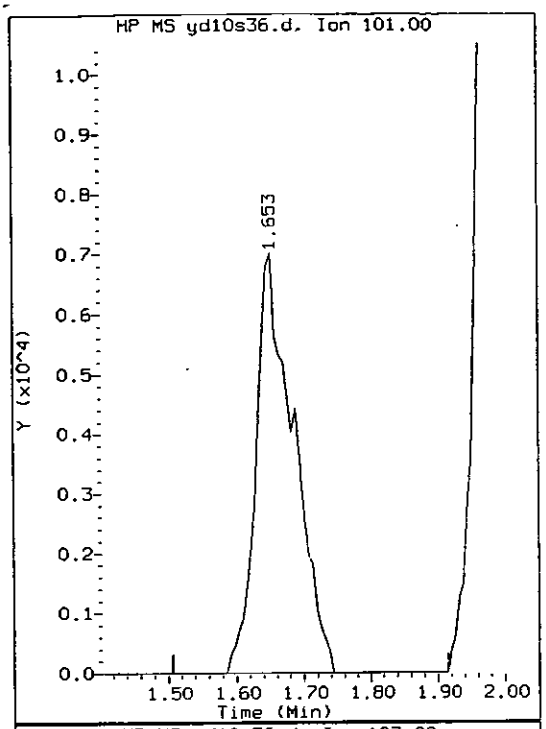
Sample Name: PAT10 Lab Sample ID: 5859186

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
10) Trichlorofluoromethane	(1)	1.653	101	27304	3.093
16) 1,1-Dichloroethene	(1)	1.981	96	4922783	1078.012
28)*t-Butyl Alcohol-d10	(4)	2.352	65	153216	250.000
34) 1,1-Dichloroethane	(1)	2.918	63	199912	20.869
50) Chloroform	(1)	3.745	83	12908	1.408
65) 1,2-Dichloroethane	(1)	4.287	62	14823	1.857
71)*Fluorobenzene	(1)	4.548	96	1034325	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	767744	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	463623	50.000
52)$Dibromofluoromethane	(1)	3.891	113	264164	50.112
62)$1,2-Dichloroethane-d4	(1)	4.208	102	64551	47.721
93)$Toluene-d8	(2)	6.191	98	988833	46.464
119)$4-Bromofluorobenzene	(2)	8.764	95	354716	44.228

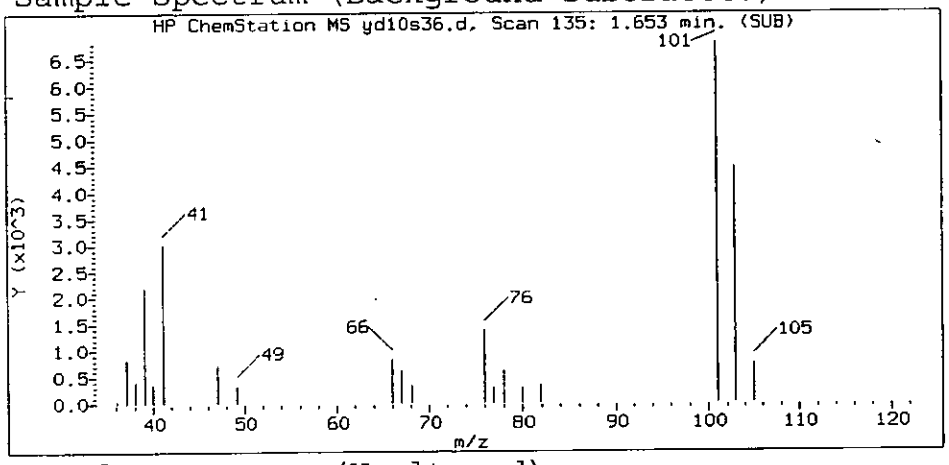
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

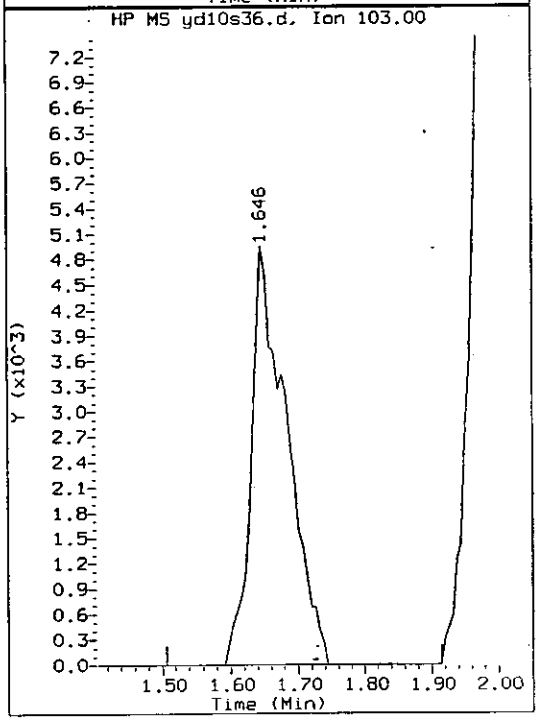
Reference Standard Spectrum for Trichlorofluoromethane



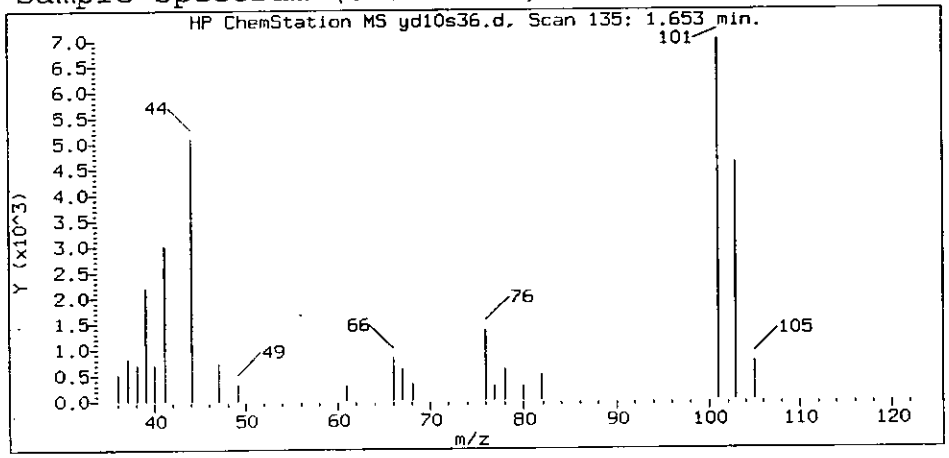


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP09355.i/09dec10b.b/yd10s36.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:11 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:12 maz02012

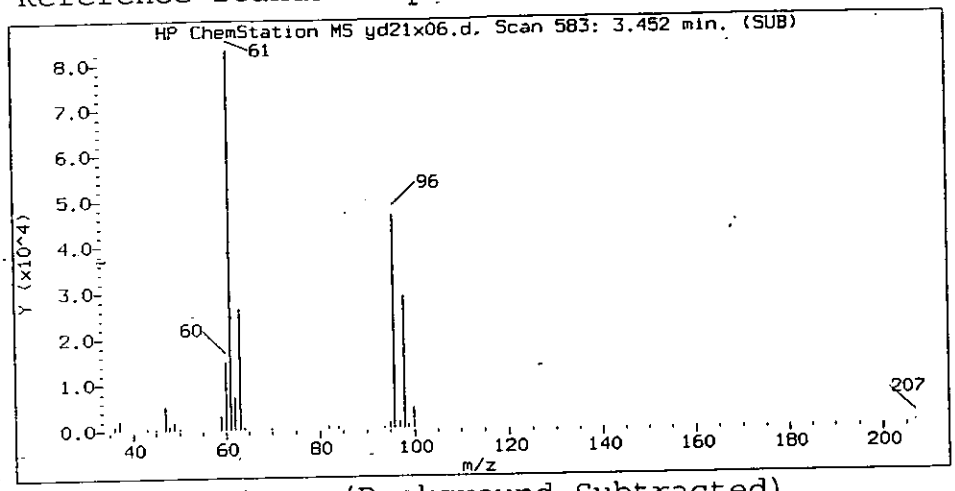
Sample Name: PAT10 Lab Sample ID: 5859186

Compound Number	: 10
Compound Name	: Trichlorofluoromethane
Scan Number	: 135
Retention Time (minutes)	: 1.653
Quant Ion	: 101.0
Area (flag)	: 27304
Concentration (ug/L)	: 3.0932

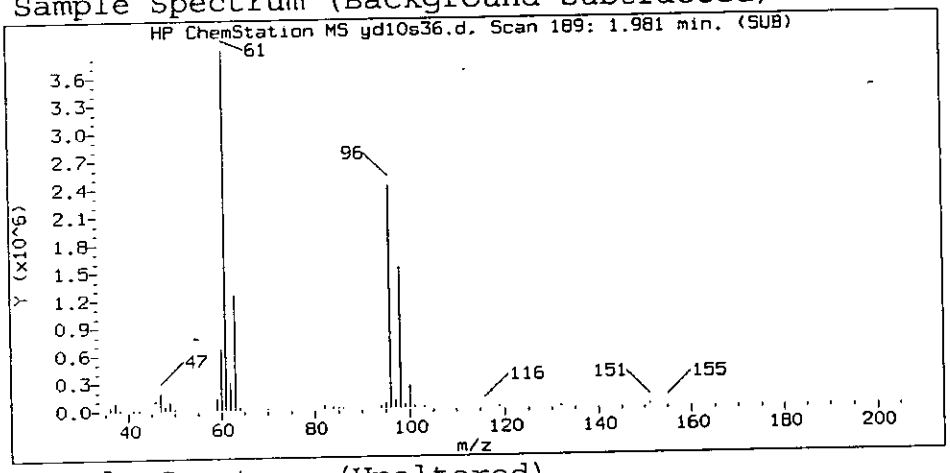
PTL94 0079

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s36.d, generated on 12/10/2009 at 22:12

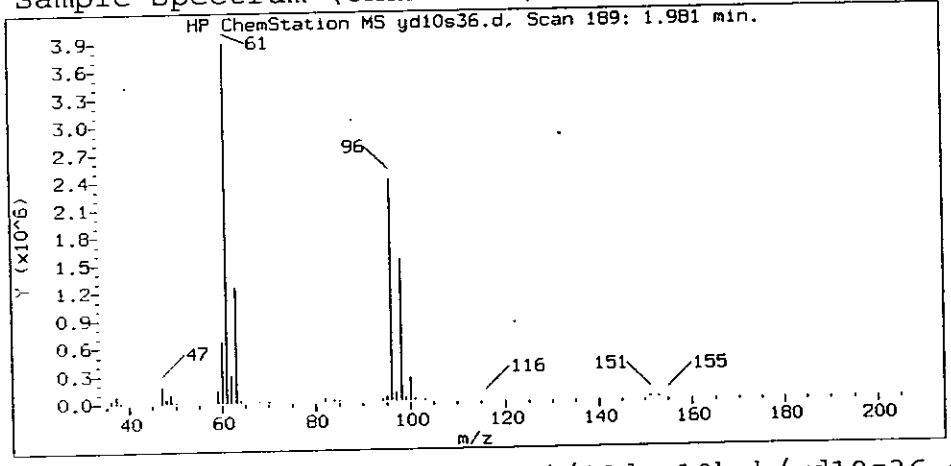
Reference Standard Spectrum for 1,1-Dichloroethene

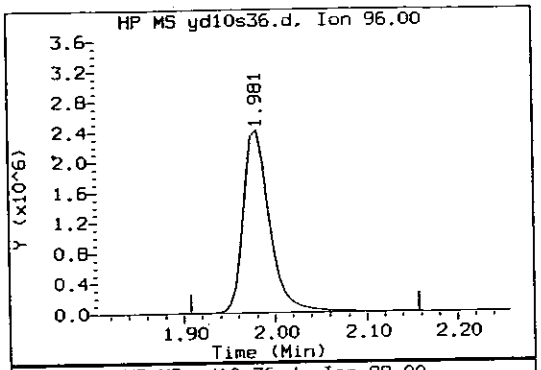


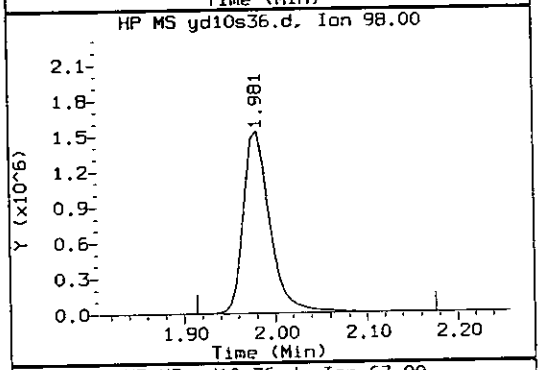
Sample Spectrum (Background Subtracted)

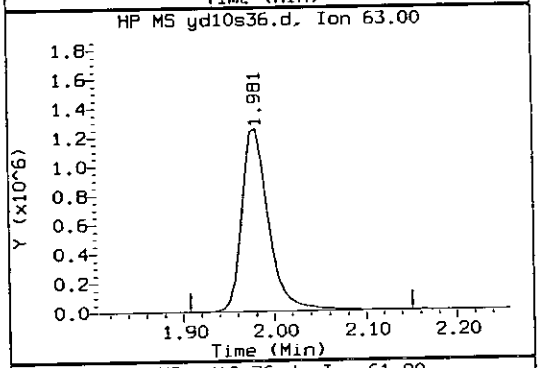


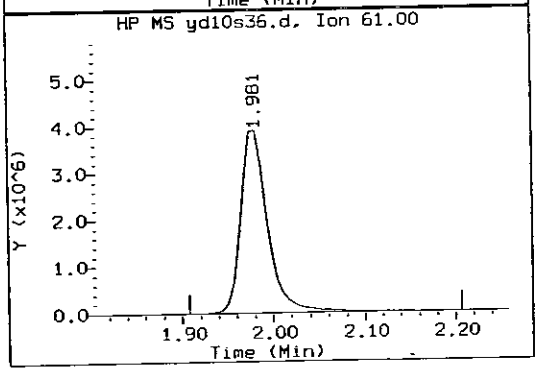
Sample Spectrum (Unaltered)











Data File: /chem2/HP09355.i/09dec10b.b/yd10s36.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:11 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:12 maz02012

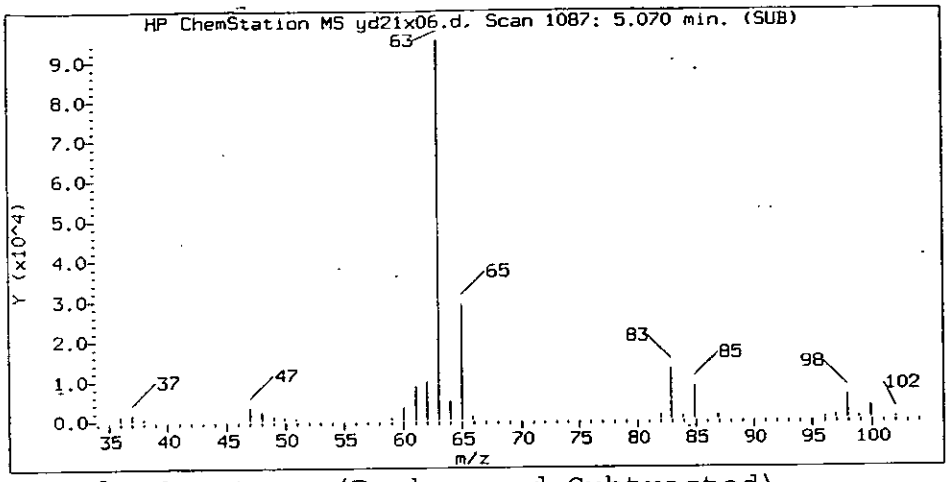
Sample Name: PAT10 Lab Sample ID: 5859186

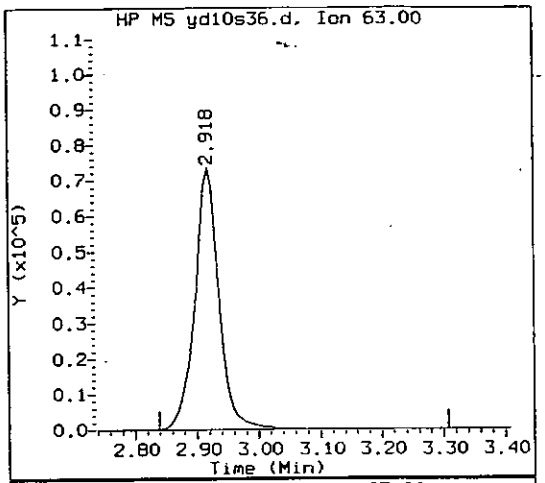
Compound Number	: 16
Compound Name	: 1,1-Dichloroethene
Scan Number	: 189
Retention Time (minutes)	: 1.981
Quant Ion	: 96.0
Area (flag)	: 4922783
Concentration (ug/L)	: 1078.0119

PTL84 0073

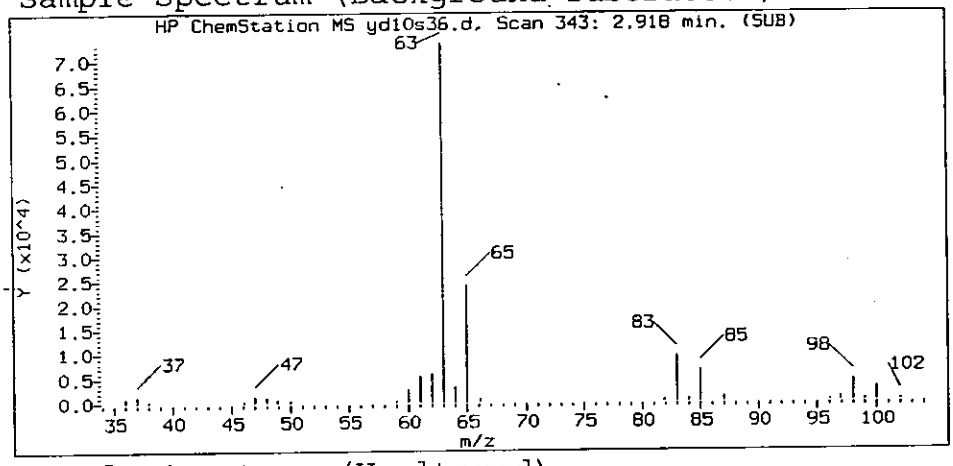
Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s36.d, generated on 12/10/2009 at 22:1

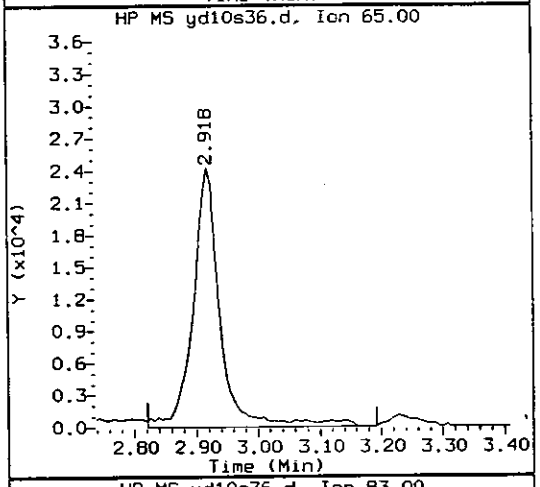
Reference Standard Spectrum for 1,1-Dichloroethane



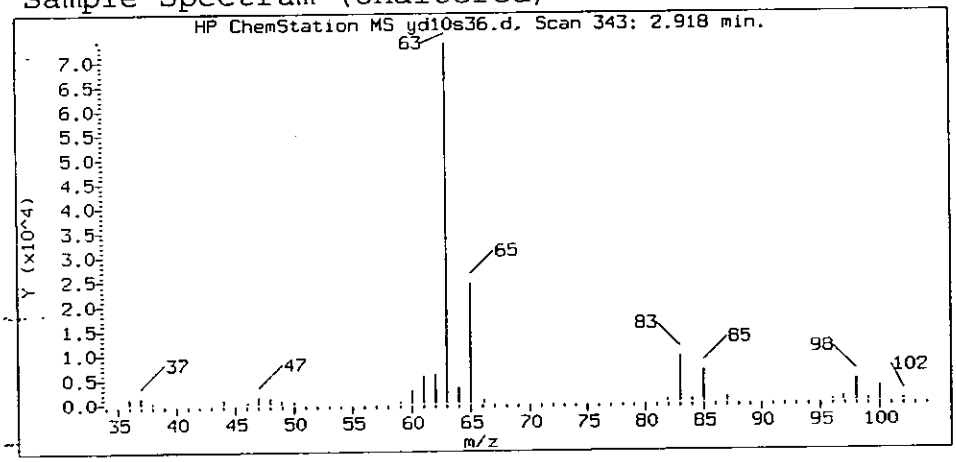


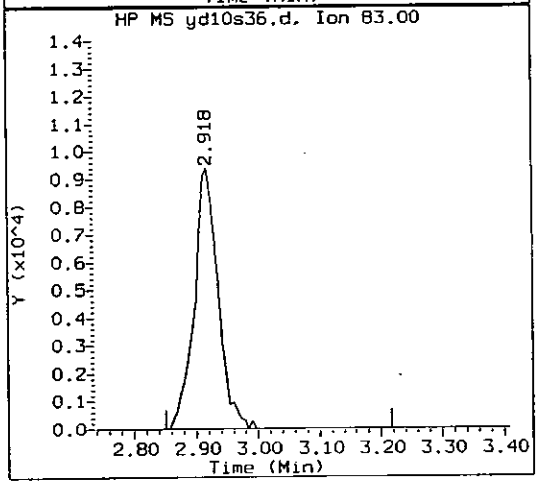
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s36.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:11 Analyst ID: NRR01826

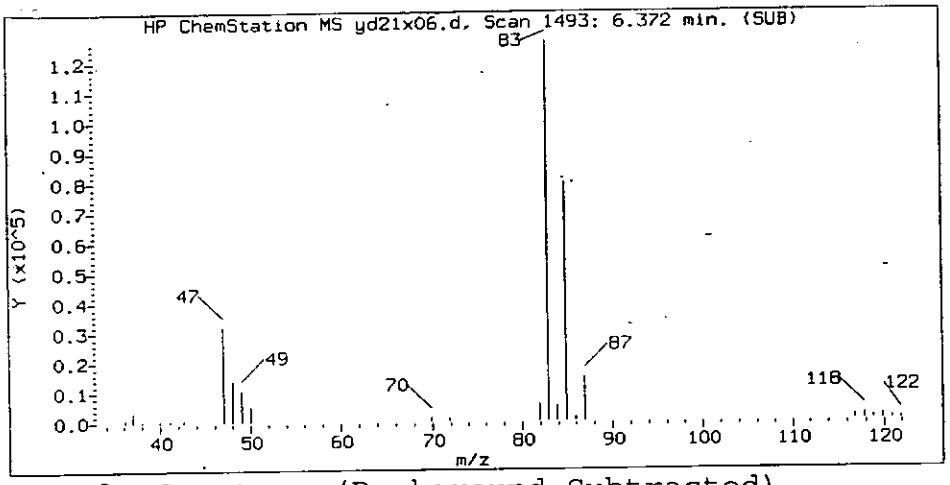
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:12 maz02012

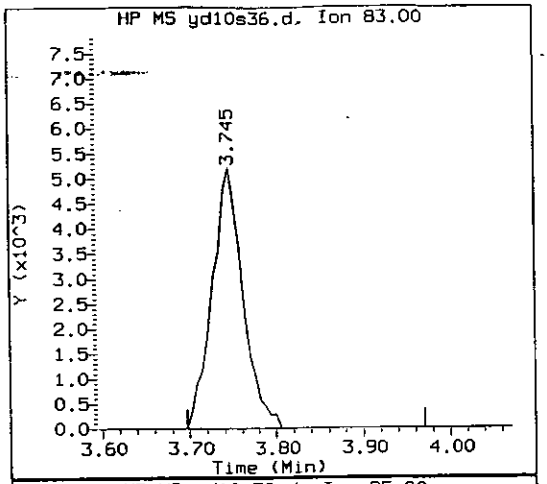
Sample Name: PAT10 Lab Sample ID: 5859186

Compound Number	: 34
Compound Name	: 1,1-Dichloroethane
Scan Number	: 343
Retention Time (minutes)	: 2.918
Quant Ion	: 63.0
Area (flag)	: 199912
Concentration (ug/L)	: 20.8689

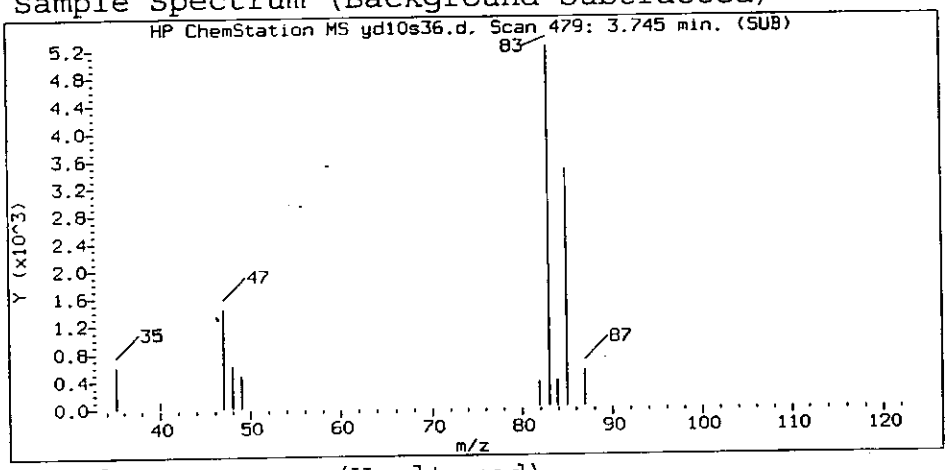
PTL84 0868

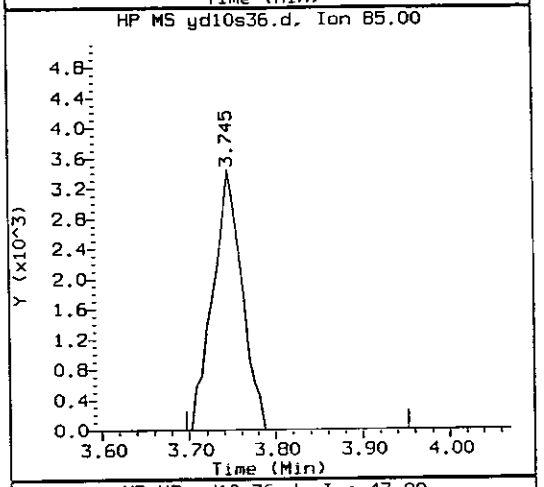
Reference Standard Spectrum for Chloroform



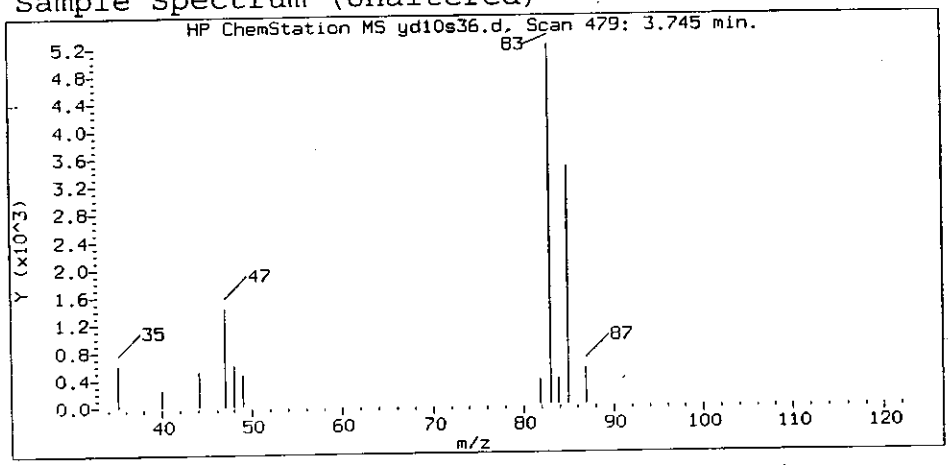


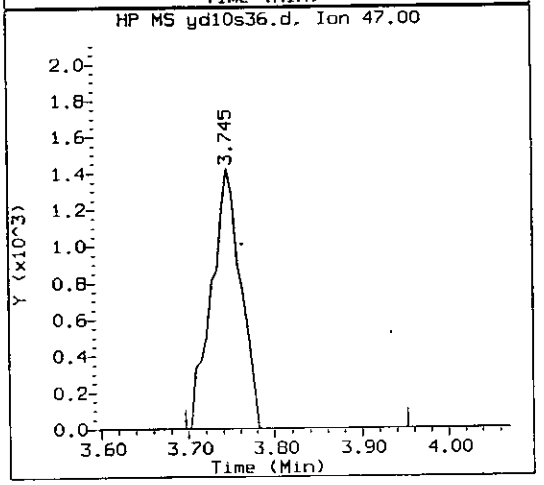
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s36.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:11 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:12 maz02012

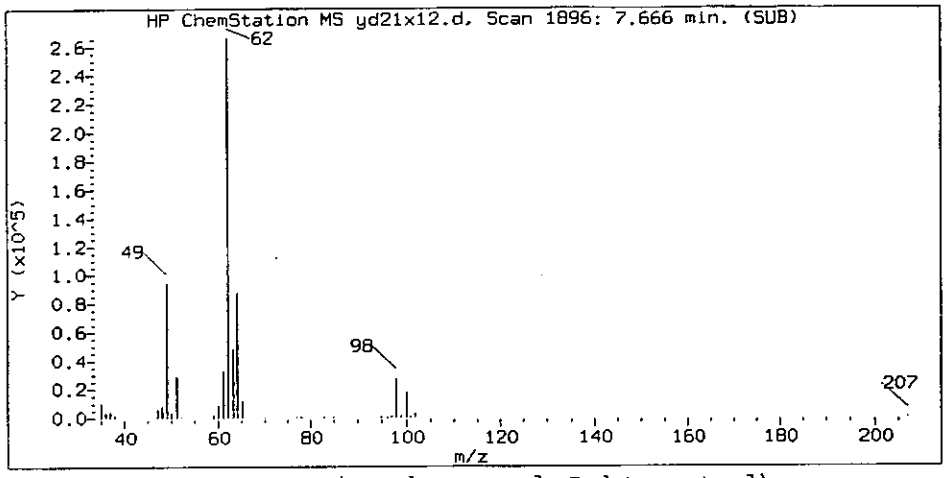
Sample Name: PAT10 Lab Sample ID: 5859186

Compound Number : 50
Compound Name : Chloroform
Scan Number : 479
Retention Time (minutes) : 3.745
Quant Ion : 83.0
Area (flag) : 12908
Concentration (ug/L) : 1.4082

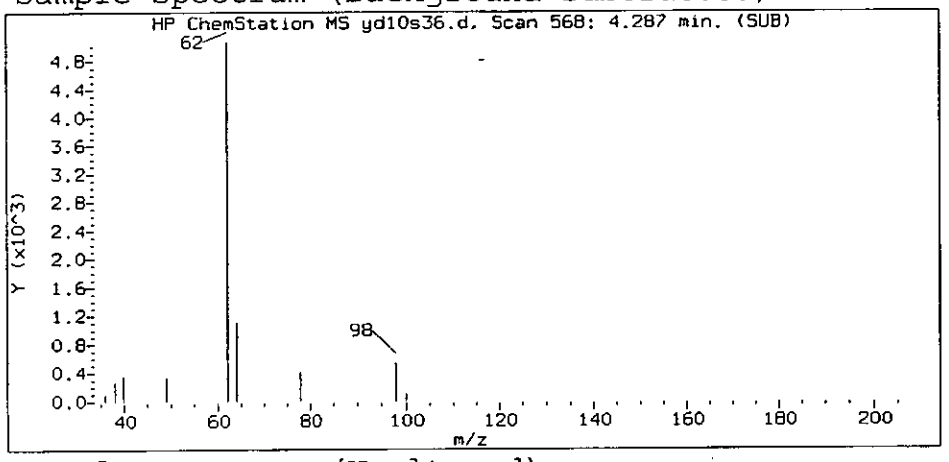
PTL84 0061

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s36.d, generated on 12/10/2009 at 22:12

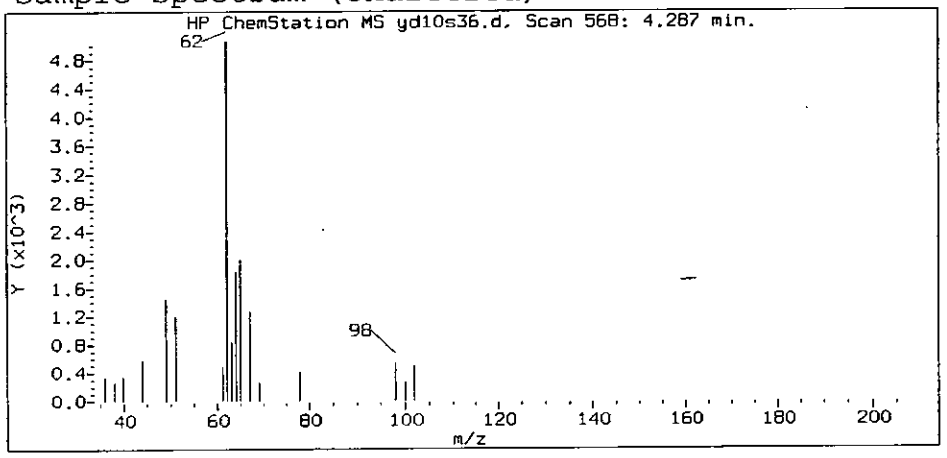
Reference Standard Spectrum for 1,2-Dichloroethane

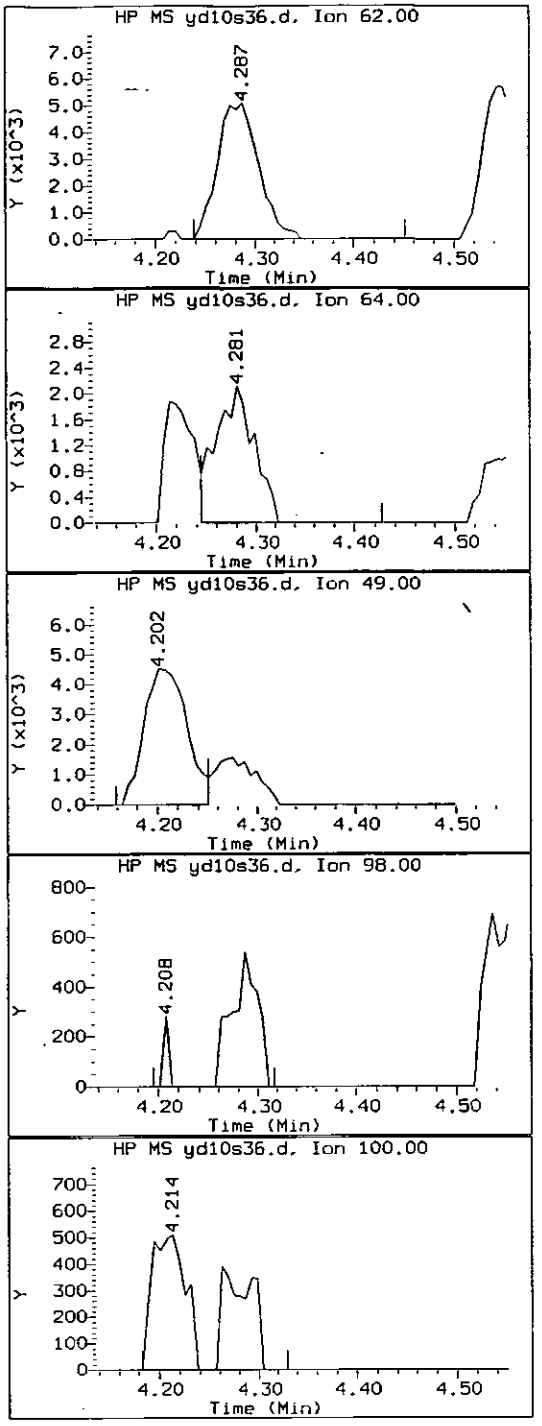


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s36.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:11 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:12 maz02012

Sample Name: PAT10 Lab Sample ID: 5859186

Compound Number : 65
Compound Name : 1,2-Dichloroethane
Scan Number : 568
Retention Time (minutes): 4.287
Quant Ion : 62.0
Area (flag) : 14823
Concentration (ug/L) : 1.8572

PTL04 0002

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s36.d, generated on 12/10/2009 at 22:12

PAT10DL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859186

File: /chem2/HP09355.i/09dec10b.b/yd10s52.d
Sample: PAT10DL;5859186;1;0;;;;;yd10b06;;;
Injected At:11-DEC-2009 00:58
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:HB01996
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:10.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 0.5000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38B

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.334(0.012)	247	65	167235(-10)	250.00	
71) Fluorobenzene	4.542(0.006)	610	96	994797(-15)	50.00	
106) Chlorobenzene-d5	7.712(0.012)	1131	117	730006(-15)	50.00	
136) 1,4-Dichlorobenzene-d4	9.658(0.006)	1451	152	432843(-23)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.885(0.002)	113	254328	50.163	100%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.201(0.000)	102	62015	47.667	95%		77 - 113
93) Toluene-d8	(2)	6.185(0.000)	98	953516	47.121	94%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(-0.001)	95	330155	43.294	87%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			20.00	50.00
3) Chloromethane	(1)				ND	ND			10.00	50.00
5) Vinyl Chloride	(1)				ND	ND			10.00	50.00
7) Bromomethane	(1)				ND	ND			10.00	50.00
8) Chloroethane	(1)				ND	ND			10.00	50.00
10) Trichlorofluoromethane	(1)				ND	ND			20.00	50.00
16) 1,1-Dichloroethene	(1)	1.975(-0.001)	96	395028	89.942	899.42			8.00	50.00
17) Acetone	(1)				ND	ND			60.00	200.00
26) Methylene Chloride	(1)				ND	ND			20.00	50.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			8.00	50.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			5.00	50.00
34) 1,1-Dichloroethane	(1)	2.906(0.002)	63	16496	1.790	17.90		J	10.00	50.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			8.00	50.00
41) 2-Butanone	(1)				ND	ND			30.00	100.00
42) 2,2-Dichloropropane	(1)				ND	ND			10.00	50.00
47) Bromochloromethane	(1)				ND	ND			10.00	50.00
50) Chloroform	(1)				ND	ND			8.00	50.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			8.00	50.00
57) 1,1-Dichloropropene	(1)				ND	ND			10.00	50.00
58) Carbon Tetrachloride	(1)				ND	ND			10.00	50.00
63) Benzene	(1)				ND	ND			5.00	50.00
65) 1,2-Dichloroethane	(1)				ND	ND			10.00	50.00
74) Trichloroethene	(1)				ND	ND			10.00	50.00
77) 1,2-Dichloropropane	(1)				ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 3883

PAT10DL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859186

File: /chem2/HP09355.i/09dec10b.b/yd10s52.d
Sample: PAT10DL;5859186;1;0;;;;;yd10b06;;;
Injected At:11-DEC-2009 00:58
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:HB01996
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:10.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 0.5000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38B

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			10.00	50.00
83) Bromodichloromethane	(1)					ND	ND			10.00	50.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			10.00	50.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			30.00	100.00
94) Toluene	(2)					ND	ND			7.00	50.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			10.00	50.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			8.00	50.00
98) Tetrachloroethene	(2)					ND	ND			8.00	50.00
99) 1,3-Dichloropropane	(2)					ND	ND			10.00	50.00
102) Dibromochloromethane	(2)					ND	ND			10.00	50.00
104) 1,2-Dibromoethane	(2)					ND	ND			10.00	50.00
107) Chlorobenzene	(2)					ND	ND			8.00	50.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			10.00	50.00
109) Ethylbenzene	(2)					ND	ND			8.00	50.00
110) m+p-Xylene	(2)					ND	ND			8.00	50.00
112) Xylene (Total)	(2)					ND	ND			8.00	50.00
113) o-Xylene	(2)					ND	ND			8.00	50.00
114) Styrene	(2)					ND	ND			10.00	50.00
115) Bromoform	(2)					ND	ND			10.00	50.00
116) Isopropylbenzene	(2)					ND	ND			10.00	50.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			10.00	50.00
121) Bromobenzene	(3)					ND	ND			10.00	50.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			10.00	50.00
125) n-Propylbenzene	(3)					ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8884

PAT10DL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859186

File: /chem2/HP09355.i/09dec10b.b/yd10s52.d
Sample: PAT10DL;5859186;1;0;;;;;yd10b06;;;
Injected At:11-DEC-2009 00:58
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:HB01996
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:10.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 0.5000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38B

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			10.00	50.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			10.00	50.00
128) 4-Chlorotoluene	(3)					ND	ND			10.00	50.00
130) tert-Butylbenzene	(3)					ND	ND			10.00	50.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			10.00	50.00
133) sec-Butylbenzene	(3)					ND	ND			10.00	50.00
135) p-Isopropyltoluene	(3)					ND	ND			10.00	50.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			10.00	50.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			10.00	50.00
145) n-Butylbenzene	(3)					ND	ND			10.00	50.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			10.00	50.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			20.00	50.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			10.00	50.00
151) Hexachlorobutadiene	(3)					ND	ND			20.00	50.00
152) Naphthalene	(3)					ND	ND			10.00	50.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: LMoo Date: 12/12/09

Auditor: Date: 12-18-09

PTL04 6685

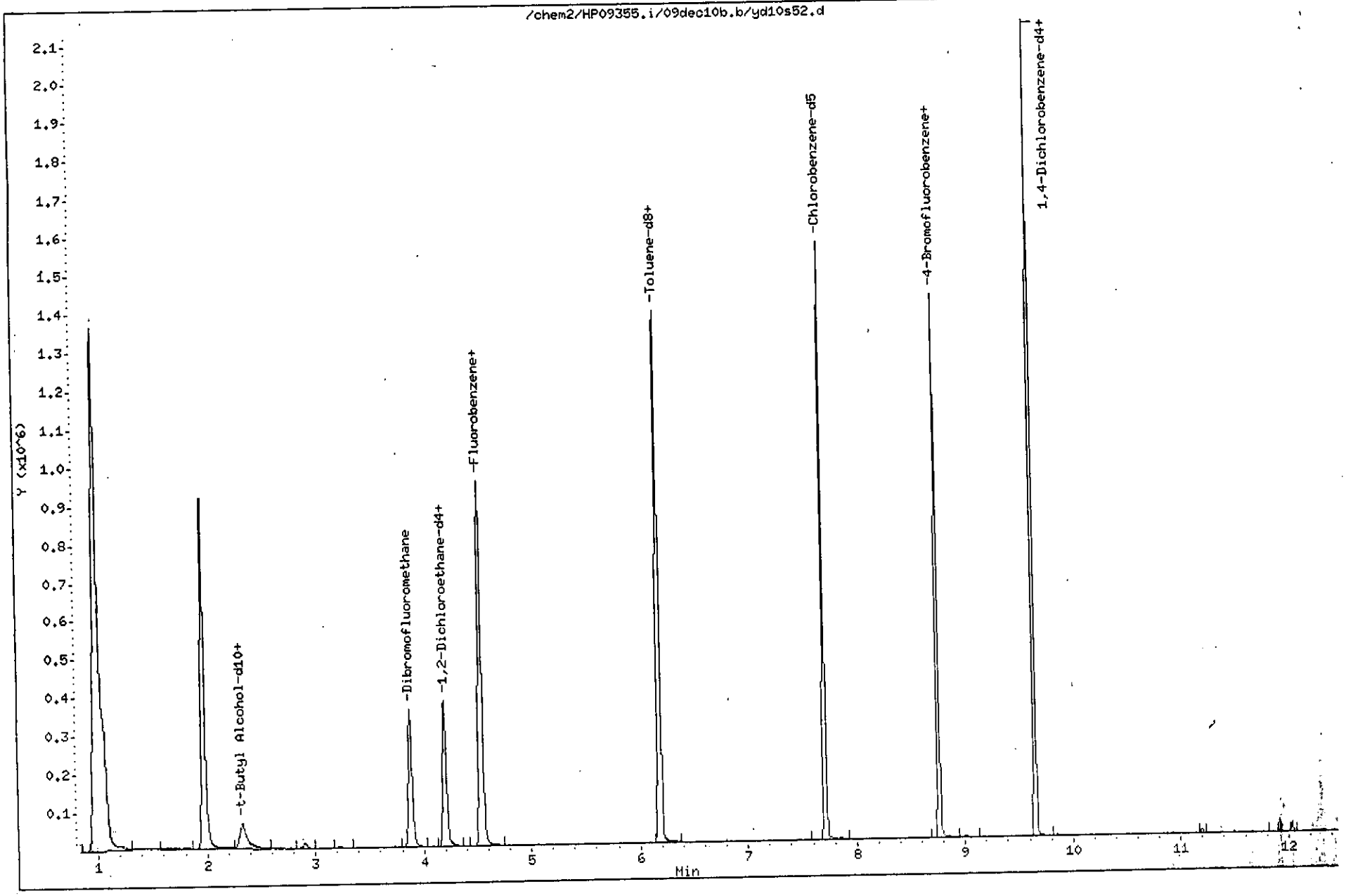
HB1996
12/11/08

PTI84 5886

Data File: /chem2/HP09355.i/09dec10b.b/yd10s52.d
Date : 11-DEC-2009 00:58
Client ID: PAT10DL
Sample Info: PAT10DL;5859186;1;0;;;;;yd10b06;;;
Purge Volume: 0.5
Column phase: DB-624

Instrument: HP09355.i

Operator: HB01996
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s52.d Instrument ID: HP09355.i
Injection date and time: 11-DEC-2009 00:58 Analyst ID: HB01996

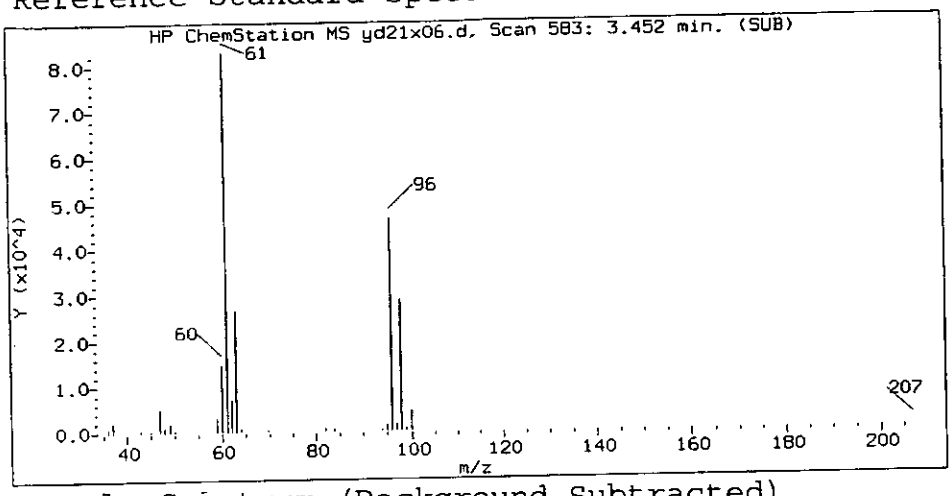
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 11-Dec-2009 02:30 hb01996

Sample Name: PAT10DL Lab Sample ID: 5859186

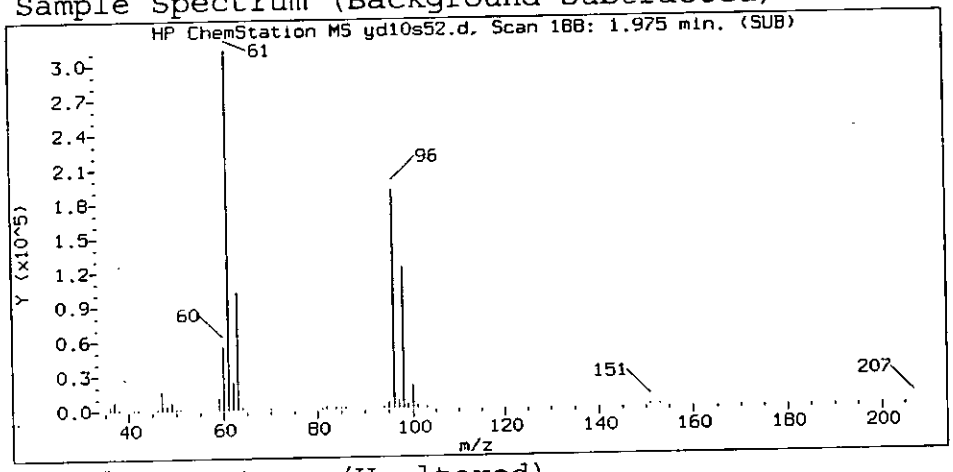
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.975	96	395028	89.942
28) *t-Butyl Alcohol-d10	(4)	2.334	65	167235	250.000
34) 1,1-Dichloroethane	(1)	2.906	63	16496	1.790
71) *Fluorobenzene	(1)	4.542	96	994797	50.000
106) *Chlorobenzene-d5	(2)	7.712	117	730006	50.000
136) *1,4-Dichlorobenzene-d4	(3)	9.658	152	432843	50.000
52) $Dibromofluoromethane	(1)	3.885	113	254328	50.163
62) $1,2-Dichloroethane-d4	(1)	4.201	102	62015	47.667
93) $Toluene-d8	(2)	6.185	98	953516	47.121
119) $4-Bromofluorobenzene	(2)	8.764	95	330155	43.294

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

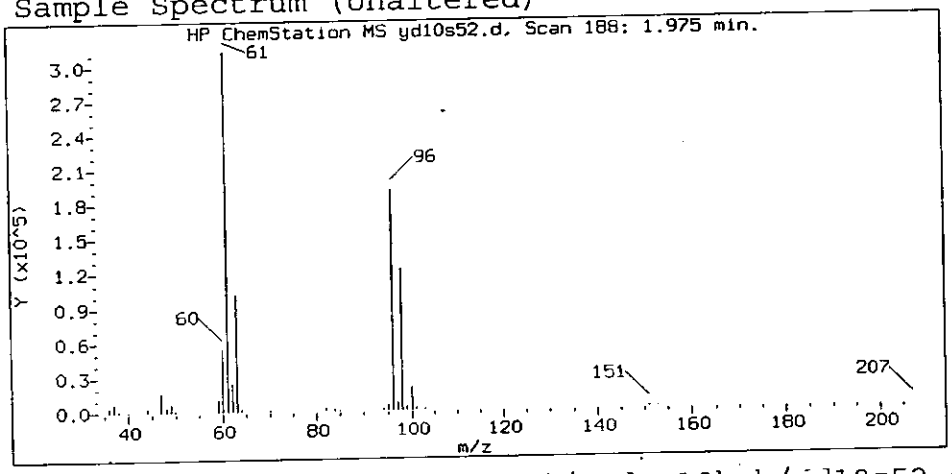
Reference Standard Spectrum for 1,1-Dichloroethene

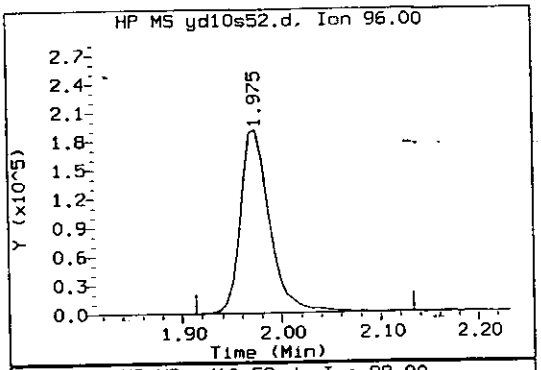


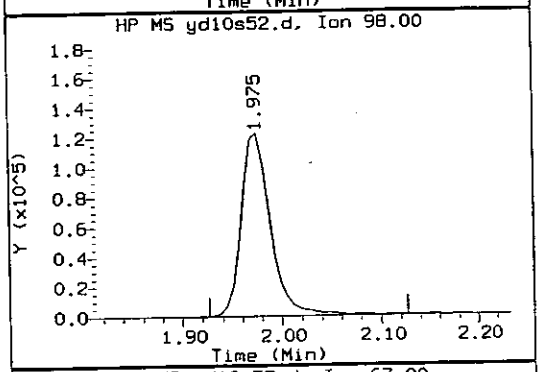
Sample Spectrum (Background Subtracted)

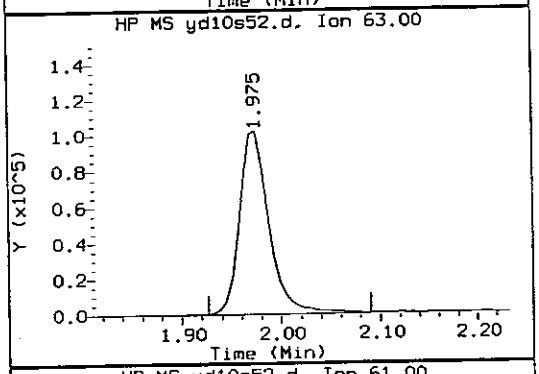


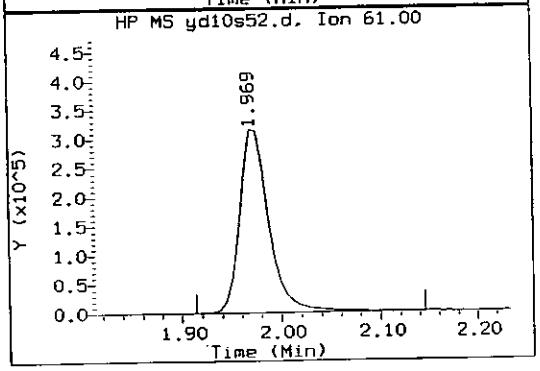
Sample Spectrum (Unaltered)











Data File: /chem2/HP09355.i/09dec10b.b/yd10s52.d Instrument ID: HP09355.i
Injection date and time: 11-DEC-2009 00:58 Analyst ID: HB01996

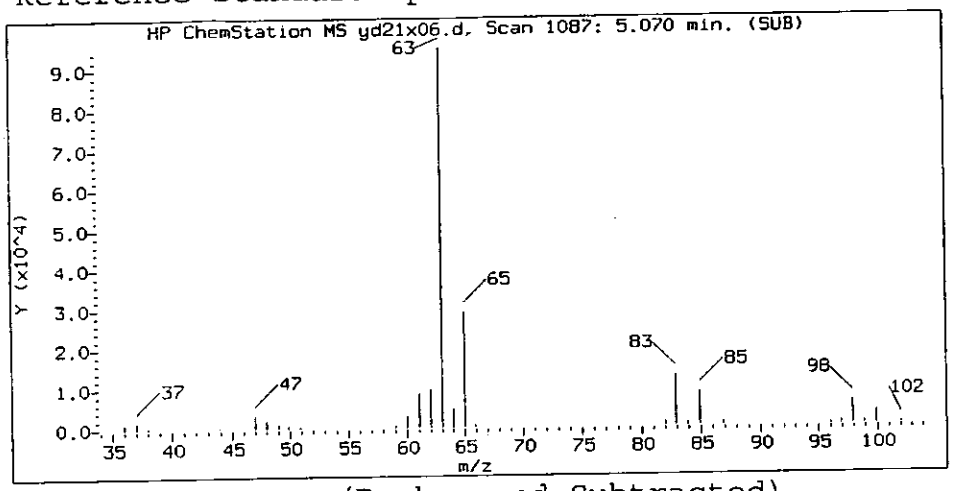
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 11-Dec-2009 02:30 hb01996

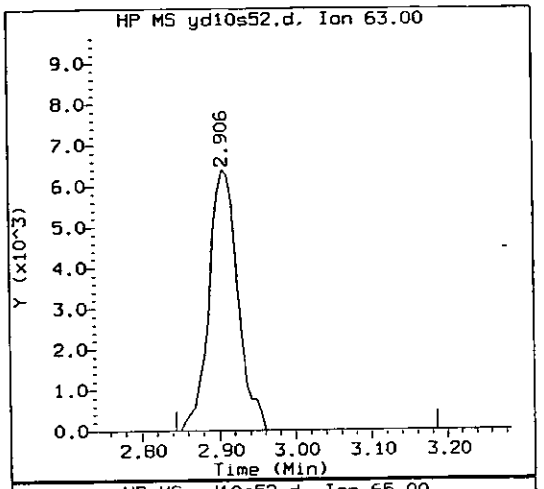
Sample Name: PAT10DL Lab Sample ID: 5859186

Compound Number : 16
Compound Name : 1,1-Dichloroethene
Scan Number : 188
Retention Time (minutes) : 1.975
Quant Ion : 96.0
Area (flag) : 395028
Concentration (ug/L) : 89.9422

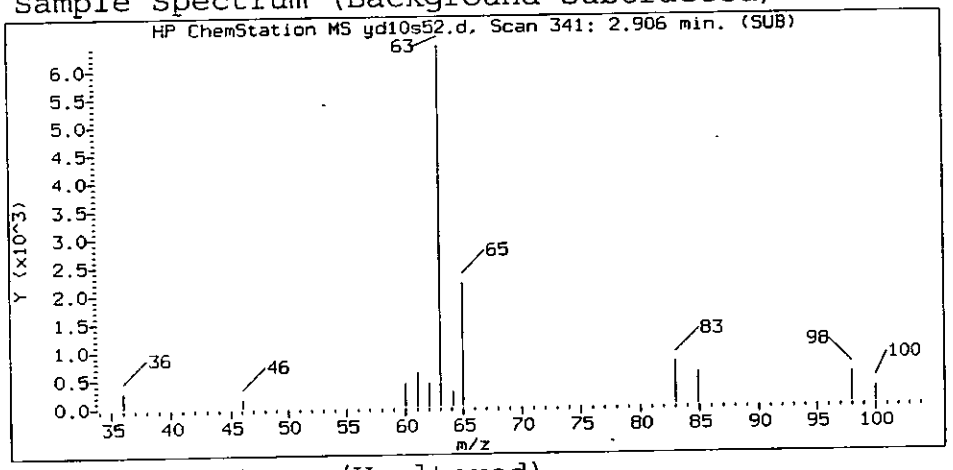
PTL04 0088

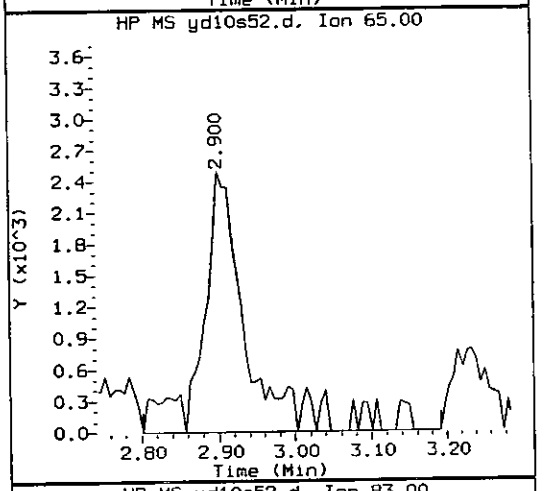
Reference Standard Spectrum for 1,1-Dichloroethane



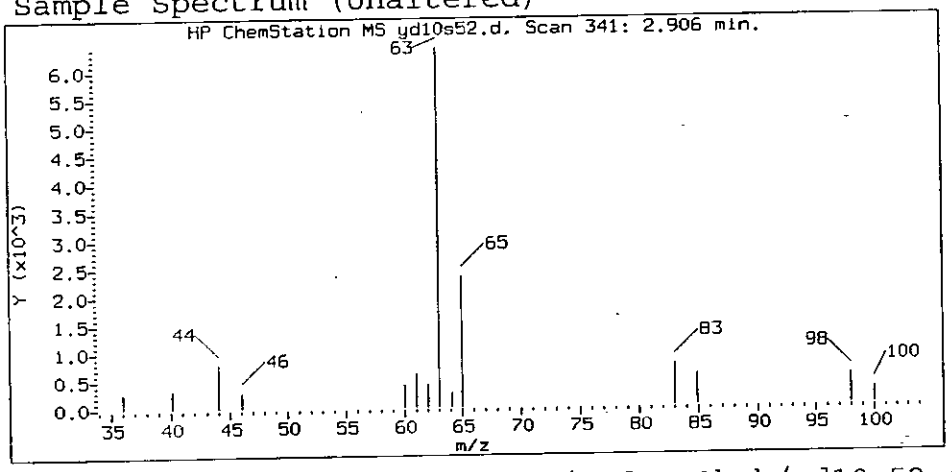


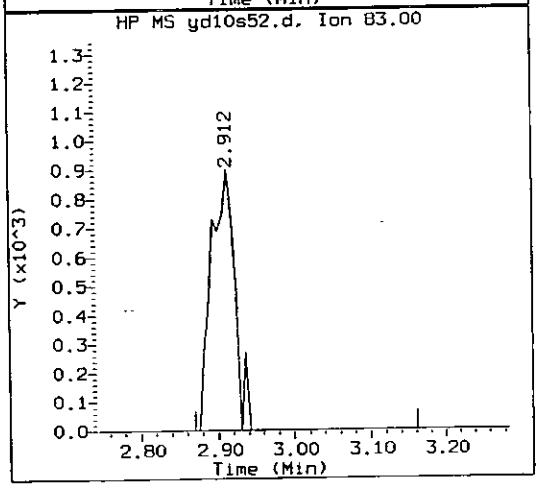
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s52.d Instrument ID: HP09355.i
Injection date and time: 11-DEC-2009 00:58 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 11-Dec-2009 02:30 hb01996

Sample Name: PAT10DL Lab Sample ID: 5859186

Compound Number : 34
Compound Name : 1,1-Dichloroethane
Scan Number : 341
Retention Time (minutes) : 2.906
Quant Ion : 63.0
Area (flag) : 16496
Concentration (ug/L) : 1.7904

PTL04 0089

PATE2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859187

File: /chem2/HP09355.i/09dec10b.b/yd10s37.d
Sample: PATE2;5859187;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:32
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	151751(-18)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	1010893(-14)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	754848(-12)	50.00	
136) 1,4-Dichlorobenzene-d4	9.658(0.006)	1451	152	456790(-19)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.000)	113	259383	50.345	101%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	62648	47.387	95%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	963128	46.029	92%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	346703	43.968	88%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)	3.751(-0.001)	83	7189	0.802	0.80		J	0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 0890

PATE2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859187

File: /chem2/HP09355.i/09dec10b.b/yd10s37.d
Sample: PATE2;5859187;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:32
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8891

PATE2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859187

File: /chem2/HP09355.i/09dec10b.b/yd10s37.d
Sample: PATE2;5859187;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:32
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

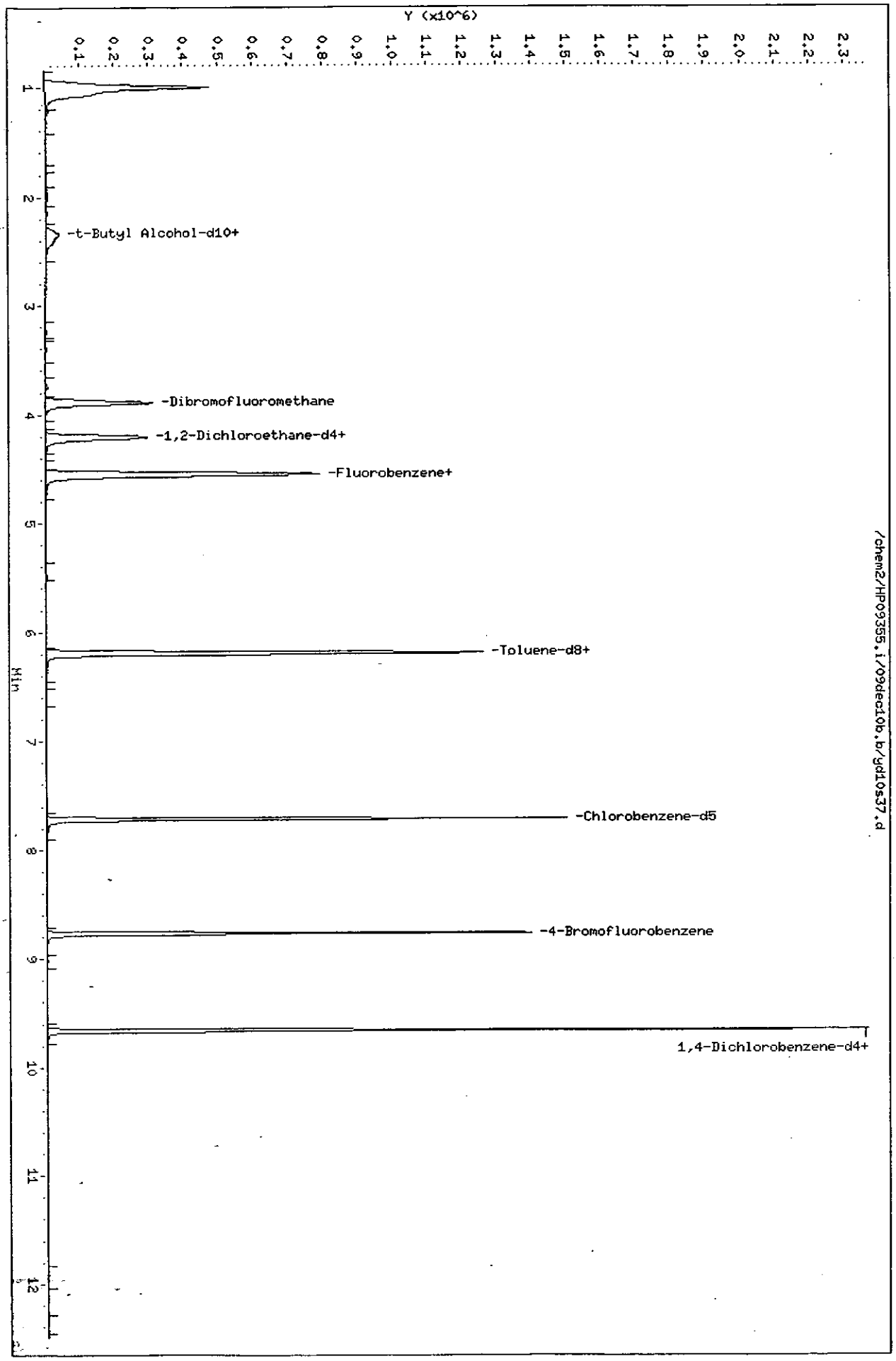
Analyst: Date: 12/12/09

Auditor: Date: 12-8-09

PTL04 0892

Data File: /chem2/HP09355.i/09dec10b.b/yd10s37.d
Date : 10-DEC-2009 19:32
Client ID: PATE2
Sample Info: PATE2;5859187;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s37.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:32 Analyst ID: NRR01826

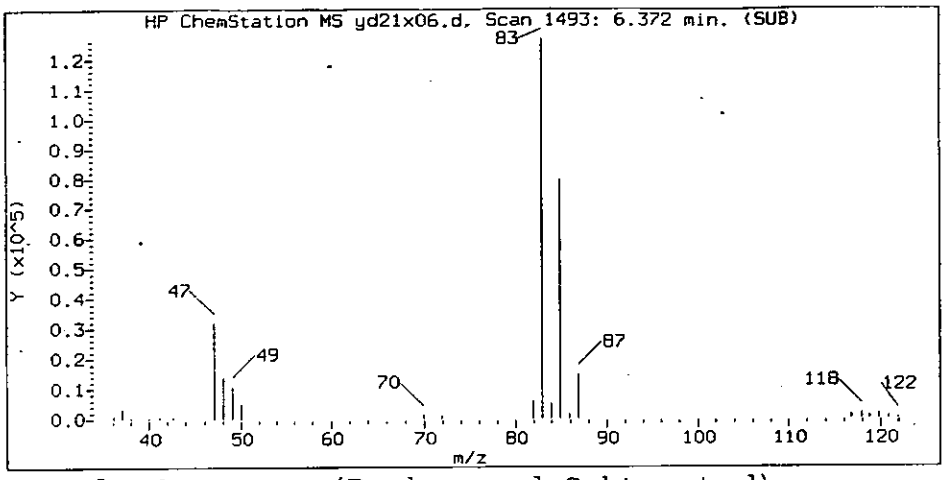
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:18 maz02012

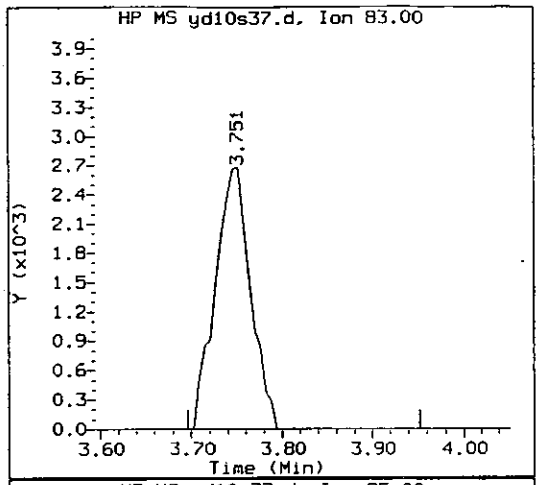
Sample Name: PATE2 Lab Sample ID: 5859187

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
28) *t-Butyl Alcohol-d10	(4)	2.346	65	151751	250.000
50) Chloroform	(1)	3.751	83	7189	0.802
71) *Fluorobenzene	(1)	4.548	96	1010893	50.000
106) *Chlorobenzene-d5	(2)	7.718	117	754848	50.000
136) *1,4-Dichlorobenzene-d4	(3)	9.658	152	456790	50.000
52) $Dibromofluoromethane	(1)	3.897	113	259383	50.345
62) $1,2-Dichloroethane-d4	(1)	4.208	102	62648	47.387
93) $Toluene-d8	(2)	6.191	98	963128	46.029
119) $4-Bromofluorobenzene	(2)	8.764	95	346703	43.968

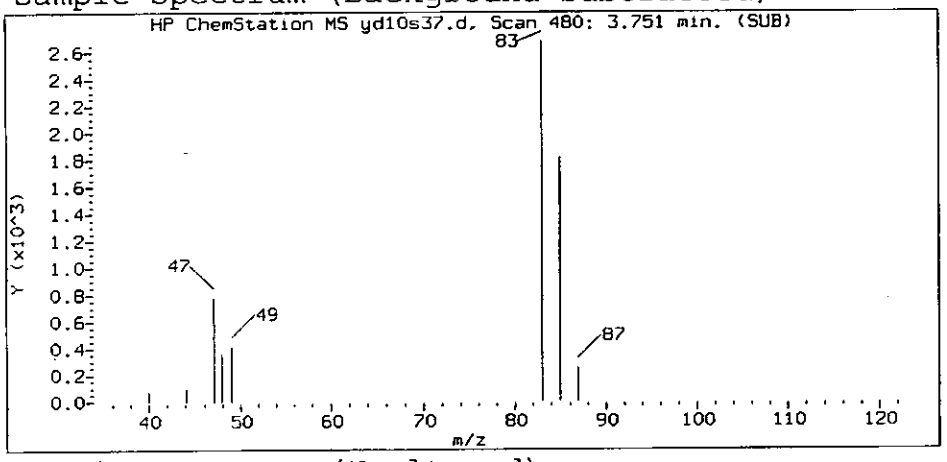
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

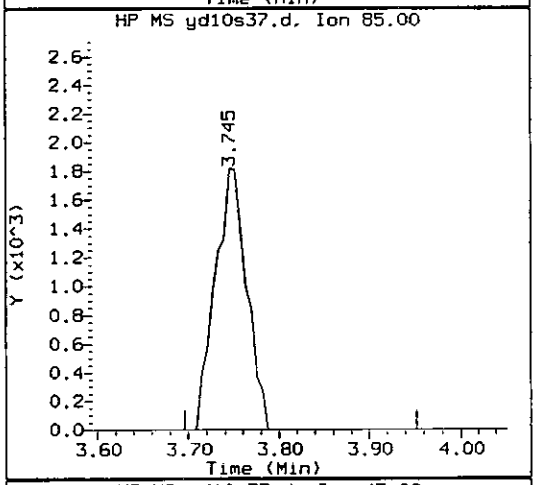
Reference Standard Spectrum for Chloroform



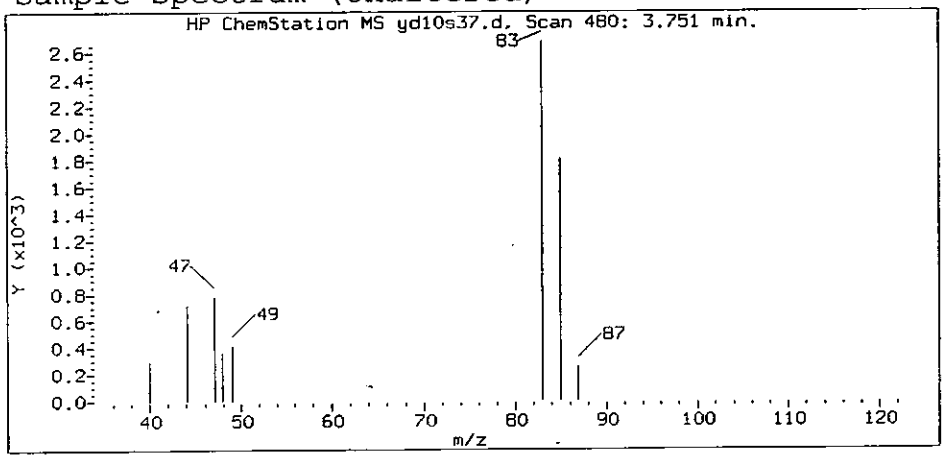


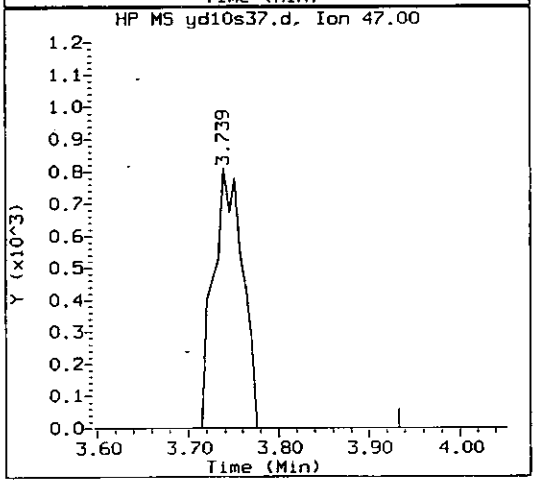
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s37.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:32 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:18 maz02012

Sample Name: PATE2 Lab Sample ID: 5859187

Compound Number	: 50
Compound Name	: Chloroform
Scan Number	: 480
Retention Time (minutes)	: 3.751
Quant Ion	: 83.0
Area (flag)	: 7189
Concentration (ug/L)	: 0.8025

PTL84 0095

PAT15

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859188

File: /chem2/HP09355.i/09dec10b.b/yd10s38.d
Sample: PAT15;5859188;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:53
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.358(-0.012)	251	65	186053(1)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	998613(-15)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	742615(-14)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	452211(-20)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.000)	113	258704	50.831	102%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	59424	45.501	91%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	944277	45.872	92%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	338036	43.575	87%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	285337	64.719	64.72			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)	2.924(-0.001)	63	18831	2.036	2.04		J	1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 0096

PAT15

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859188

File: /chem2/HP09355.i/09dec10b.b/yd10s38.d
Sample: PAT15;5859188;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:53
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PAT15

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859188

File: /chem2/HP09355.i/09dec10b.b/yd10s38.d
Sample: PAT15;5859188;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 19:53
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: [signature] Date: 12/16/09

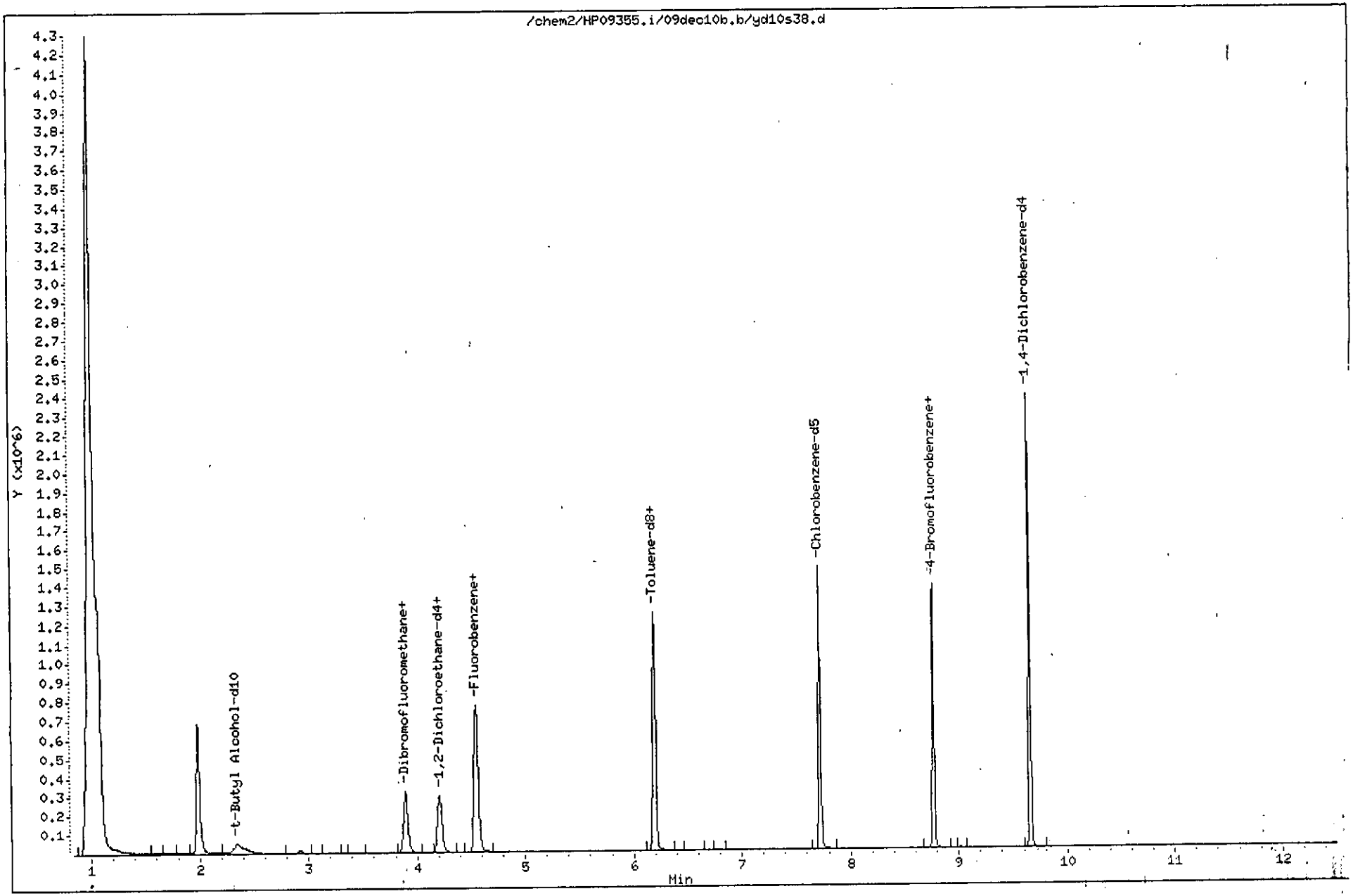
Auditor: [signature] Date: 12-18-09

PTL84 8898

Data File: /chem2/HP09355.i/09dec10b.b/yd10s38.d
Date : 10-DEC-2009 19:53
Client ID: PAT15
Sample Info: PAT15;5859188;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s38.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:53 Analyst ID: NRR01826

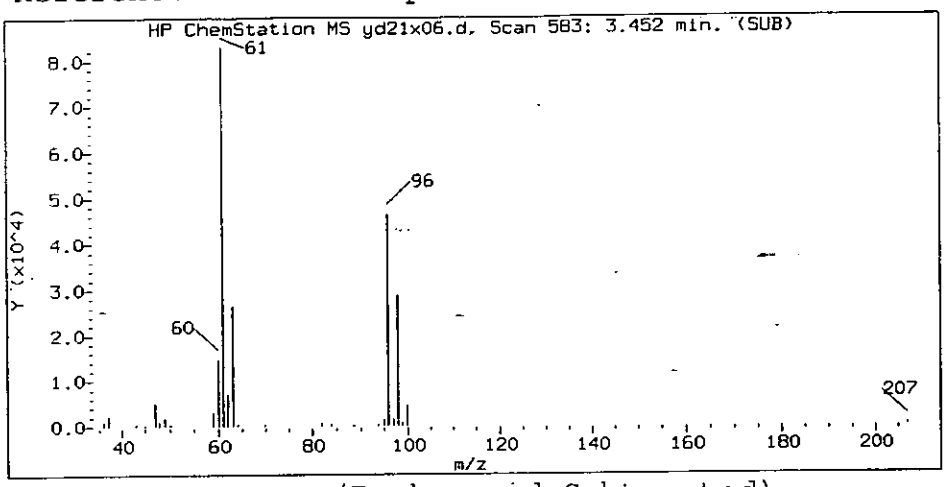
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:19 maz02012

Sample Name: PAT15 Lab Sample ID: 5859188

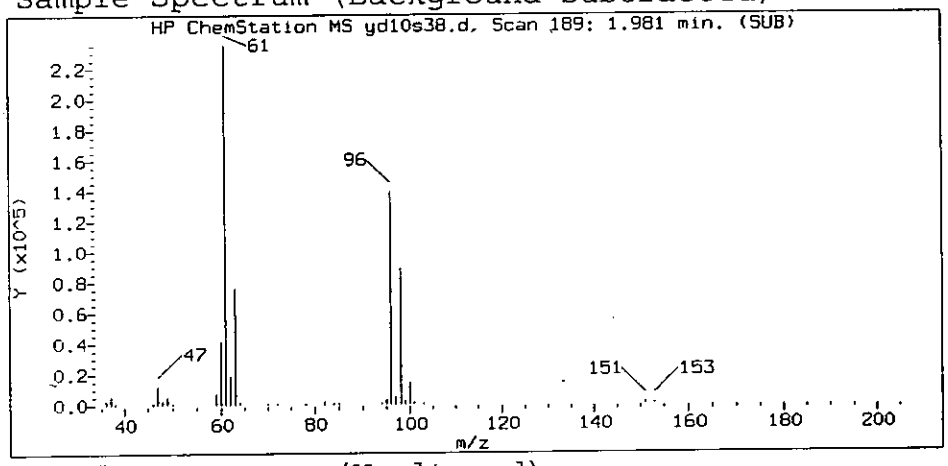
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.981	96	285337	64.719
28)*t-Butyl Alcohol-d10	(4)	2.358	65	186053	250.000
34) 1,1-Dichloroethane	(1)	2.924	63	18831	2.036
71)*Fluorobenzene	(1)	4.548	96	998613	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	742615	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	452211	50.000
52)$Dibromofluoromethane	(1)	3.897	113	258704	50.831
62)$1,2-Dichloroethane-d4	(1)	4.208	102	59424	45.501
93)$Toluene-d8	(2)	6.191	98	944277	45.872
119)$4-Bromofluorobenzene	(2)	8.764	95	338036	43.575

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

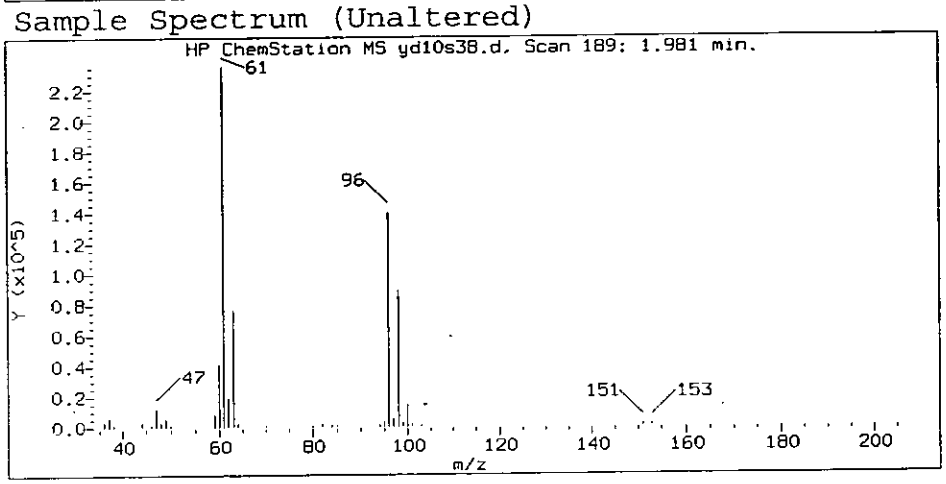
Reference Standard Spectrum for 1,1-Dichloroethene

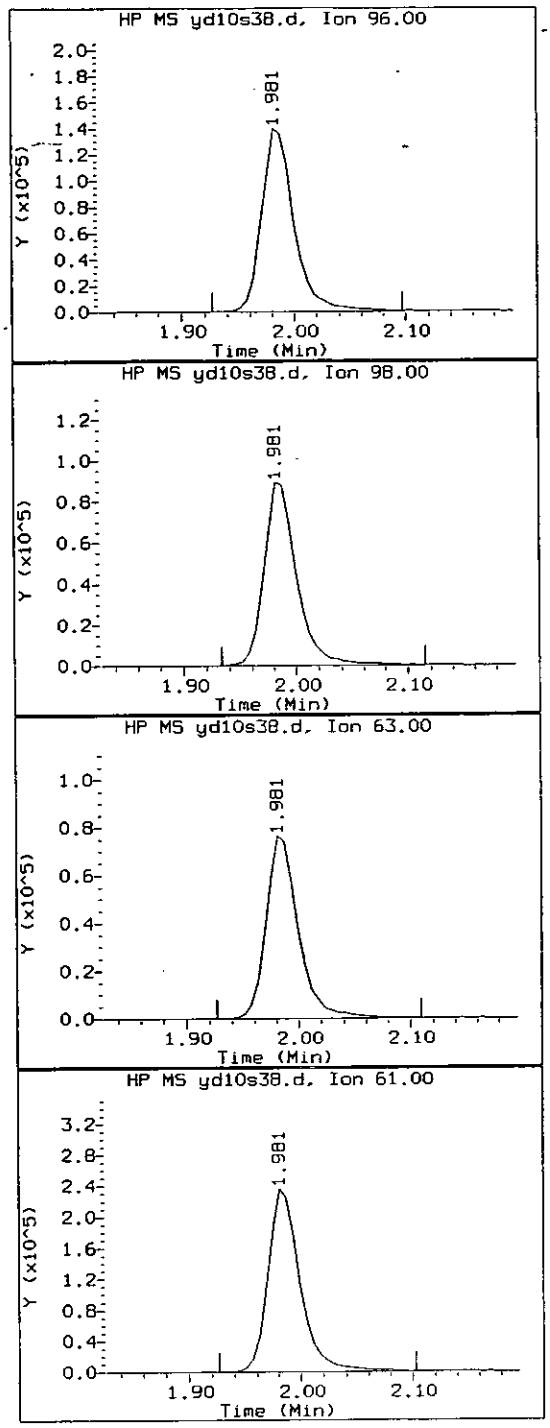


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s38.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:53 Analyst ID: NRR01826

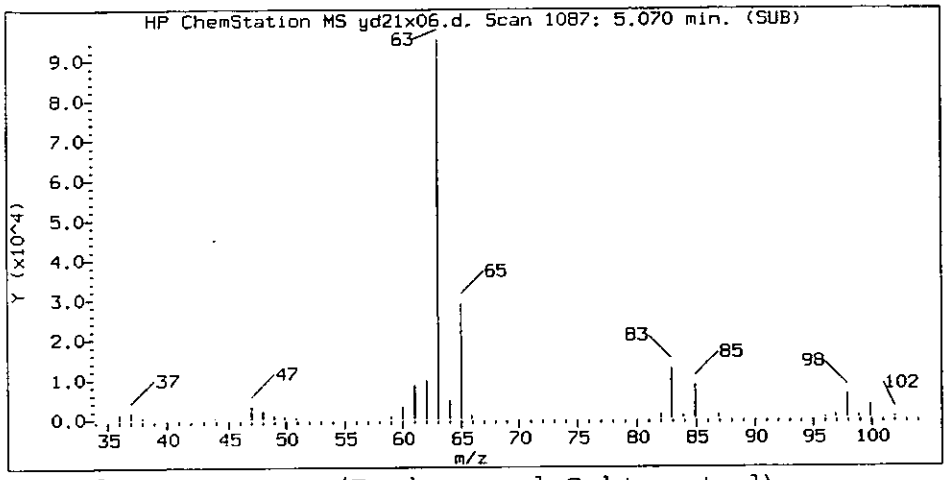
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:19 maz02012

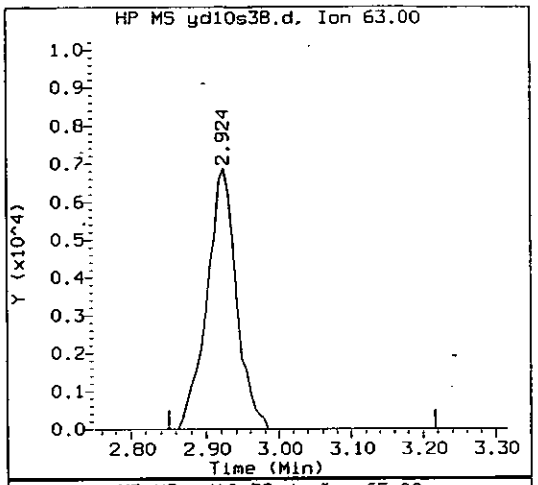
Sample Name: PAT15 Lab Sample ID: 5859188

Compound Number	: 16
Compound Name	: 1,1-Dichloroethene
Scan Number	: 189
Retention Time (minutes)	: 1.981
Quant Ion	: 96.0
Area (flag)	: 285337
Concentration (ug/L)	: 64.7188

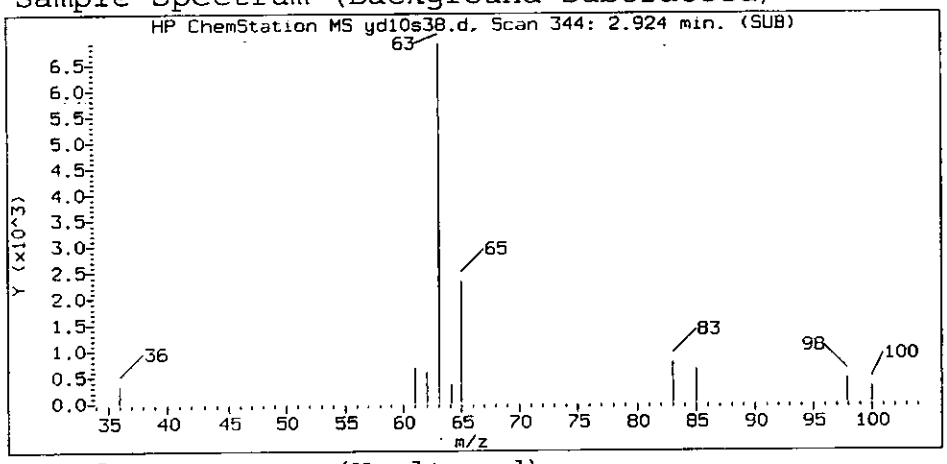
PTL04 0181

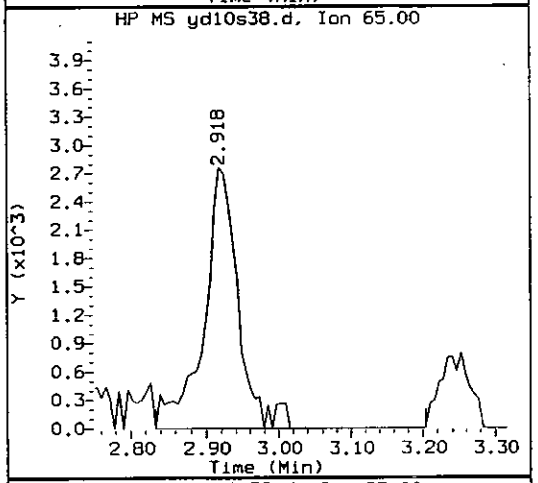
Reference Standard Spectrum for 1,1-Dichloroethane



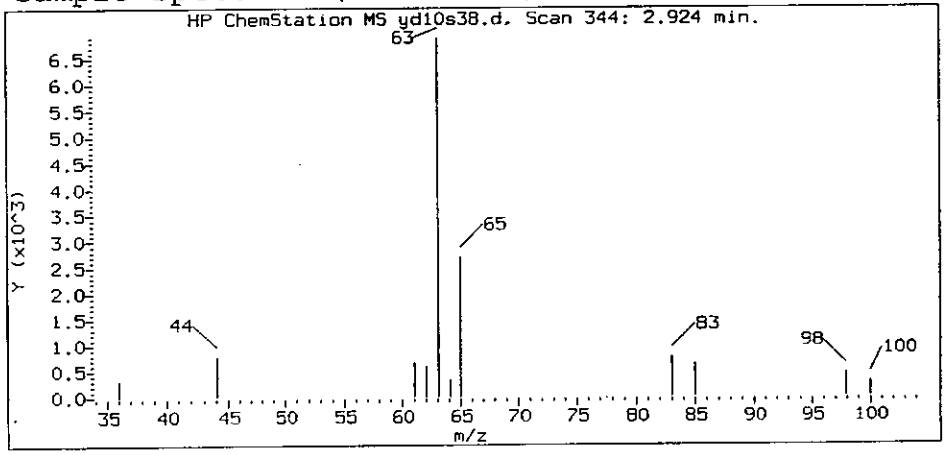


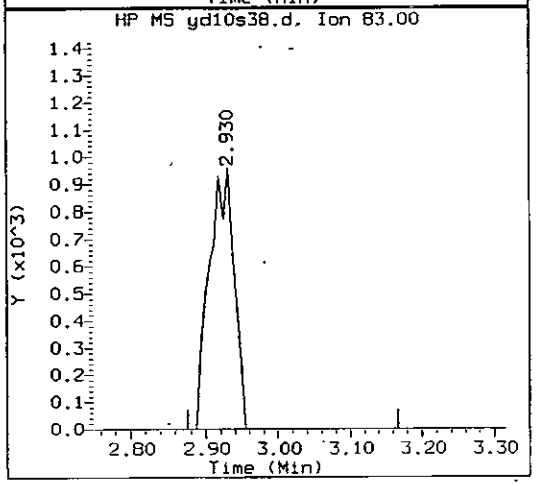
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s38.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 19:53 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:19 maz02012

Sample Name: PAT15 Lab Sample ID: 5859188

Compound Number : 34
Compound Name : 1,1-Dichloroethane
Scan Number : 344
Retention Time (minutes): 2.924
Quant Ion : 63.0
Area (flag) : 18831
Concentration (ug/L) : 2.0361

PT184 8102

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s38.d, generated on 12/10/2009 at 22:19

PATD1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859189

File: /chem2/HP09355.i/09dec10b.b/yd10s39.d
Sample: PATD1;5859189;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:14
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	186312(1)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	1000815(-15)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	739668(-14)	50.00	
136) 1,4-Dichlorobenzene-d4	9.665(0.000)	1452	152	448788(-20)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.000)	113	257878	50.557	101%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	61746	47.175	94%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	953729	46.515	93%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.770(-0.001)	95	340242	44.034	88%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8163

PATD1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859189

File: /chem2/HP09355.i/09dec10b.b/yd10s39.d
Sample: PATD1;5859189;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:14
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8184

PATD1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859189

File: /chem2/HP09355.i/09dec10b.b/yd10s39.d
Sample: PATD1;5859189;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:14
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

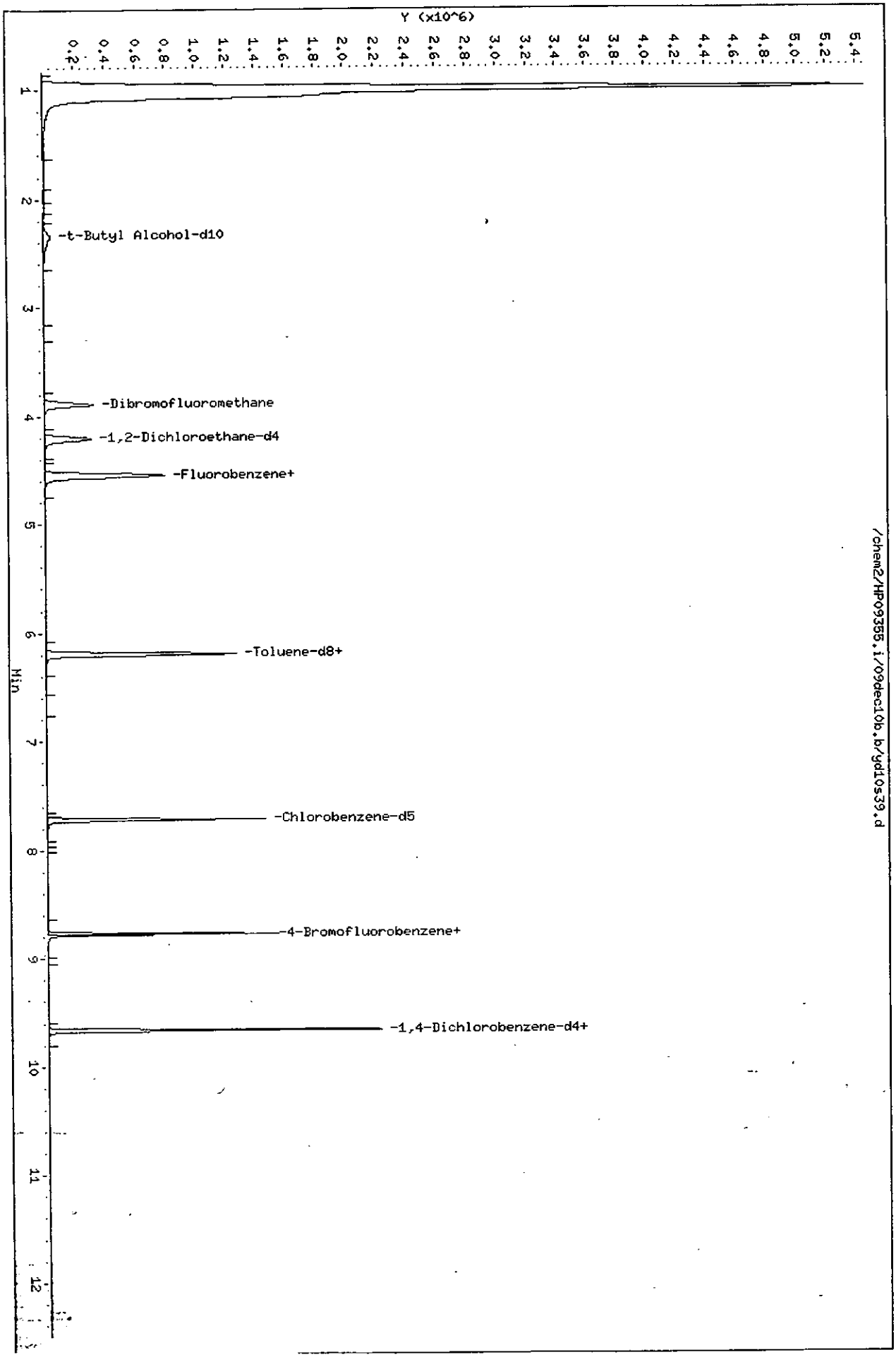
Comments:

Analyst: [illegible] Date: 12/11/09

Auditor: [illegible] Date: 12-18-09

Data File: /chem2/HP09355.i/09dec10b.b/yd10s39.d
Date : 10-DEC-2009 20:14
Client ID: PATD1
Sample Info: PATD1;58559189;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



PTL04 #186

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s39.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 20:14 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:20 maz02012

Sample Name: PATD1 Lab Sample ID: 5859189

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
28)*t-Butyl Alcohol-d10	(4)	2.346	65	186312	250.000
71)*Fluorobenzene	(1)	4.548	96	1000815	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	739668	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.665	152	448788	50.000
52)$Dibromofluoromethane	(1)	3.897	113	257878	50.557
62)$1,2-Dichloroethane-d4	(1)	4.208	102	61746	47.175
93)$Toluene-d8	(2)	6.191	98	953729	46.515
119)$4-Bromofluorobenzene	(2)	8.770	95	340242	44.034

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PAT16

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859190

File: /chem2/HP09355.i/09dec10b.b/yd10s40.d
Sample: PAT16;5859190;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:35
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.352(-0.006)	250	65	177760(-4)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	993831(-15)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	725800(-16)	50.00	
136) 1,4-Dichlorobenzene-d4	9.658(0.006)	1451	152	446572(-21)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.000)	113	256574	50.655	101%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.214(-0.001)	102	61048	46.970	94%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	929684	46.209	92%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.770(-0.001)	95	331640	43.741	87%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PT184 8168

PAT16

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859190

File: /chem2/HP09355.i/09dec10b.b/yd10s40.d
Sample: PAT16;5859190;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:35
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PAT16

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859190

File: /chem2/HP09355.i/09dec10b.b/yd10s40.d
Sample: PAT16;5859190;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:35
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m*
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

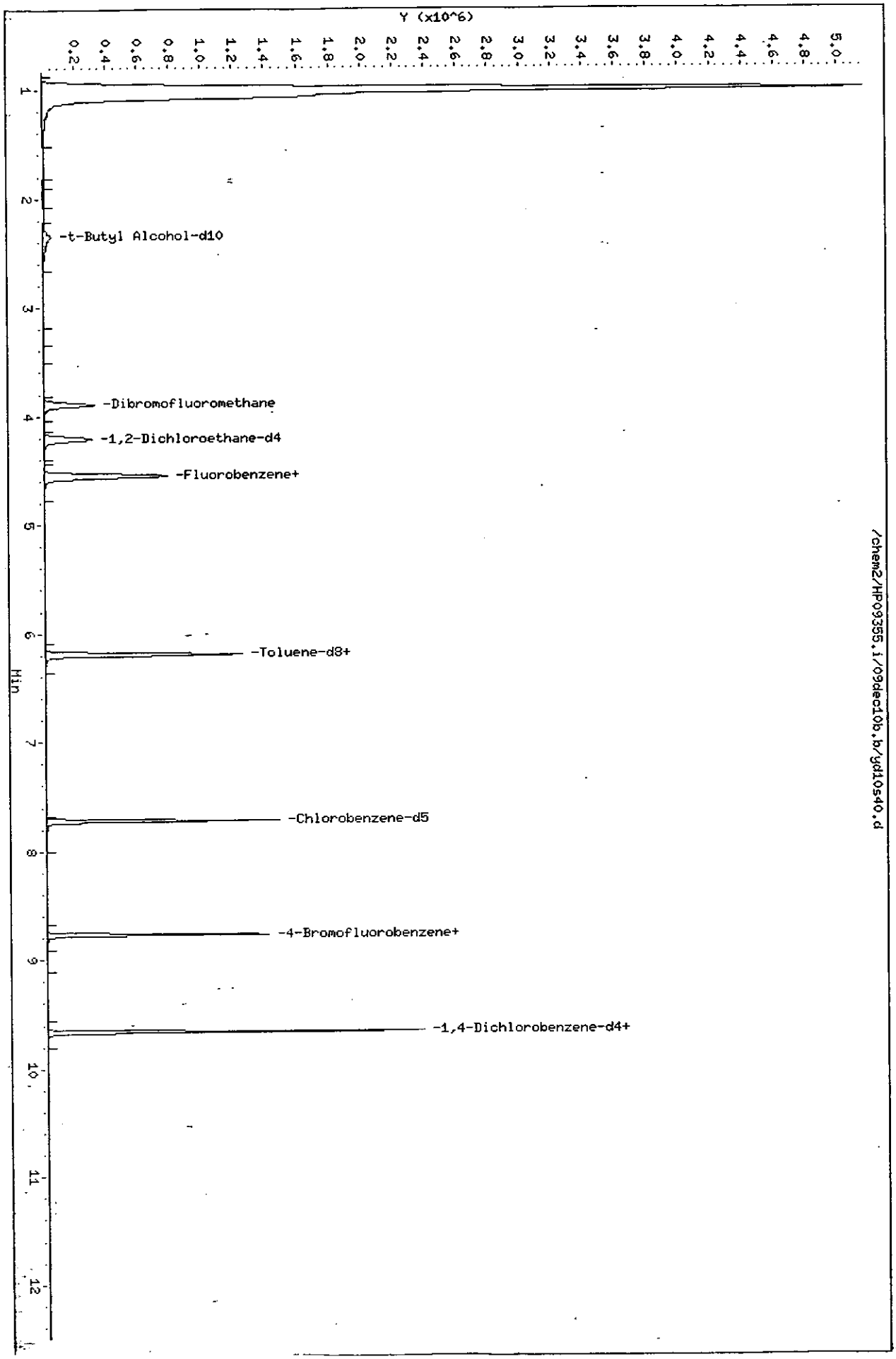
Analyst: Date: 12/12/09

Auditor: Date: 12-18-09

PTL04 B118

Data File: /chem2/HP09355.i/09dec10b.b/yd10s40.d
Date : 10-DEC-2009 20:35
Client ID: PAT16
Sample Info: PAT16;5859190;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



PTL84 8111

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s40.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 20:35 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:31 maz02012

Sample Name: PAT16 Lab Sample ID: 5859190

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
28)*t-Butyl Alcohol-d10	(4)	2.352	65	177760	250.000
71)*Fluorobenzene	(1)	4.548	96	993831	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	725800	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.658	152	446572	50.000
52)$Dibromofluoromethane	(1)	3.897	113	256574	50.655
62)$1,2-Dichloroethane-d4	(1)	4.214	102	61048	46.970
93)$Toluene-d8	(2)	6.191	98	929684	46.209
119)$4-Bromofluorobenzene	(2)	8.770	95	331640	43.741

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL84 8112

PAT17

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859191

File: /chem2/HP09355.i/09dec10b.b/yd10s41.d
Sample: PAT17;5859191;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:56
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	160198(-13)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	988328(-16)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	725166(-16)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	440320(-22)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.898(0.000)	113	255936	50.811	102%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	58634	45.364	91%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	928496	46.190	92%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	332558	43.900	88%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	397853	91.178	91.18			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)	2.912(0.001)	63	18054	1.972	1.97		J	1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 0113

PAT17

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859191

File: /chem2/HP09355.i/09dec10b.b/yd10s41.d
Sample: PAT17;5859191;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:56
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 0114

PAT17

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859191

File: /chem2/HP09355.i/09dec10b.b/yd10s41.d
Sample: PAT17;5859191;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 20:56
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: Date: 12/12/09

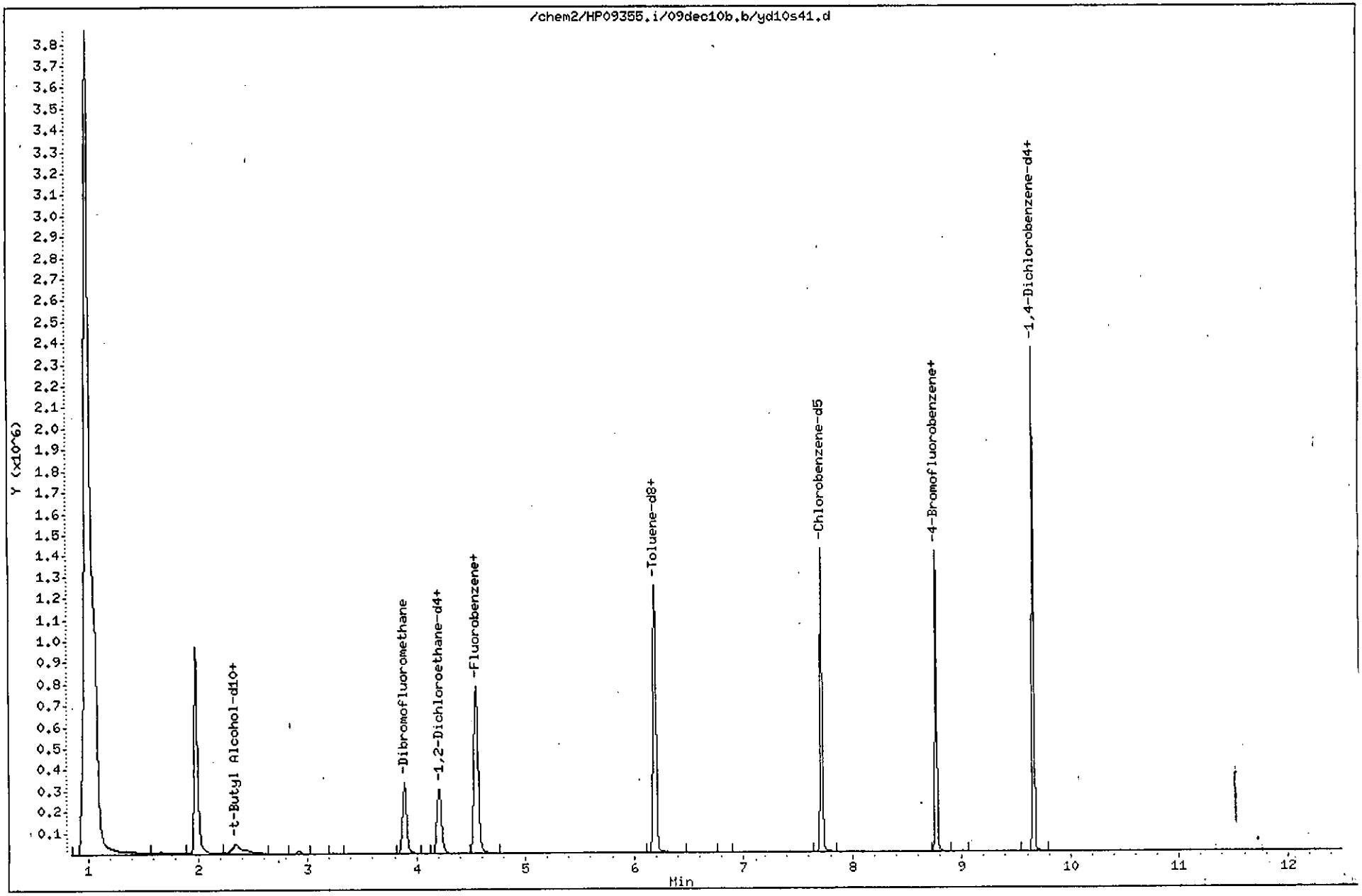
Auditor: Date: 12-18-09

PTL84.0115

Data File: /chem2/HP09355.i/09dec10b.b/yd10s41.d
Date : 10-DEC-2009 20:56
Client ID: PAT17
Sample Info: PAT17;5859191;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18

12/10/09



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s41.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 20:56 Analyst ID: NRR01826

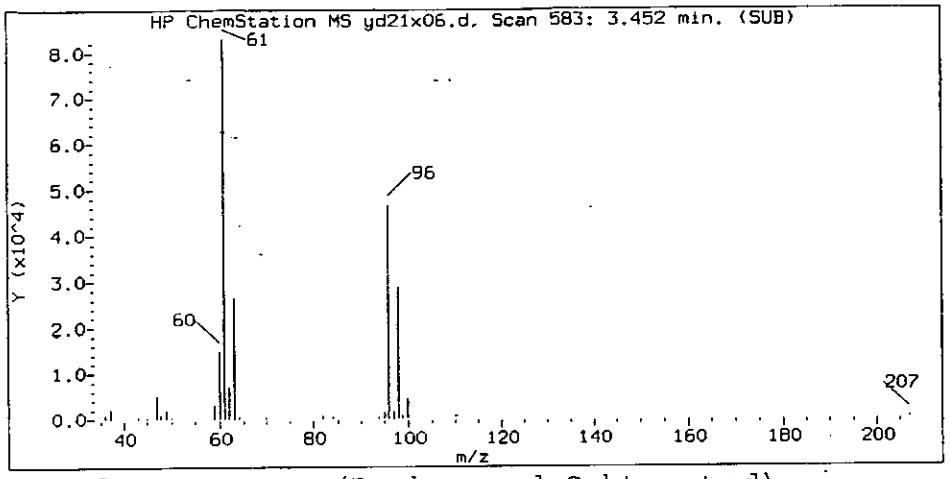
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:32 maz02012

Sample Name: PAT17 Lab Sample ID: 5859191

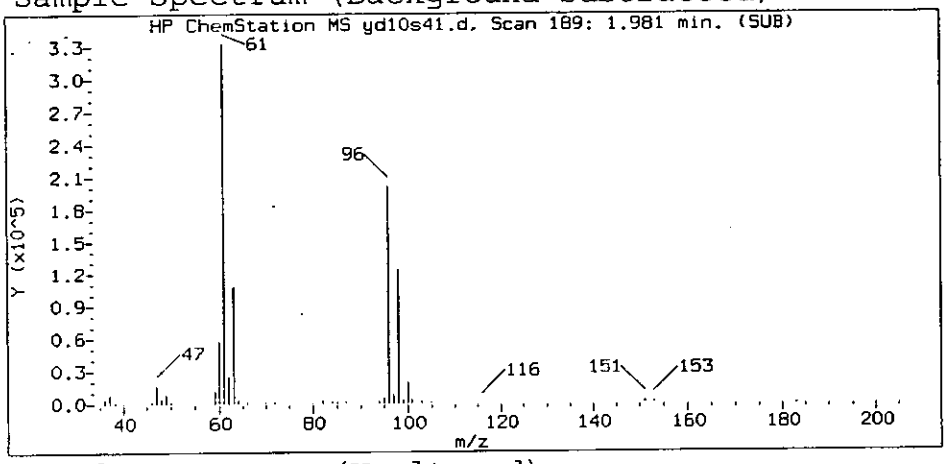
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.981	96	397853	91.178
28)*t-Butyl Alcohol-d10	(4)	2.346	65	160198	250.000
34) 1,1-Dichloroethane	(1)	2.912	63	18054	1.972
71)*Fluorobenzene	(1)	4.548	96	988328	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	725166	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	440320	50.000
52)$Dibromofluoromethane	(1)	3.898	113	255936	50.811
62)$1,2-Dichloroethane-d4	(1)	4.208	102	58634	45.364
93)$Toluene-d8	(2)	6.191	98	928496	46.190
119)$4-Bromofluorobenzene	(2)	8.764	95	332558	43.900

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

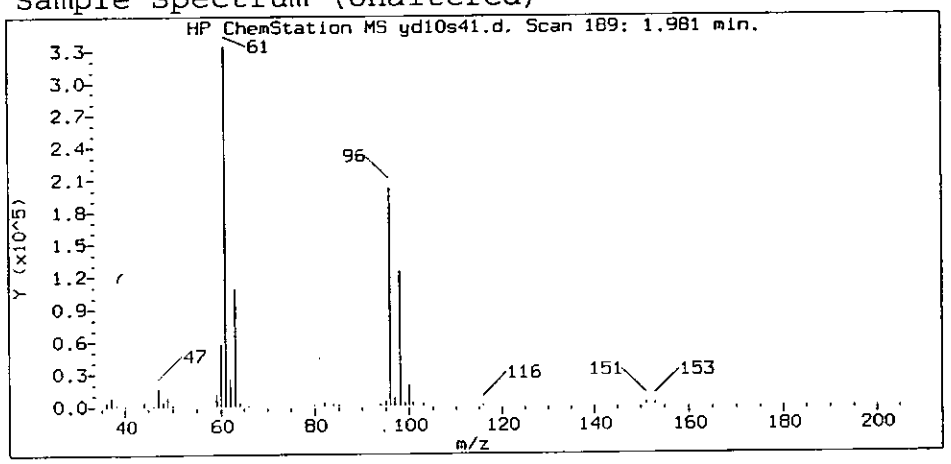
Reference Standard Spectrum for 1,1-Dichloroethene

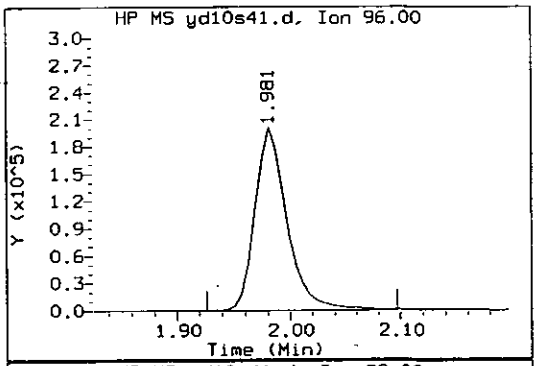


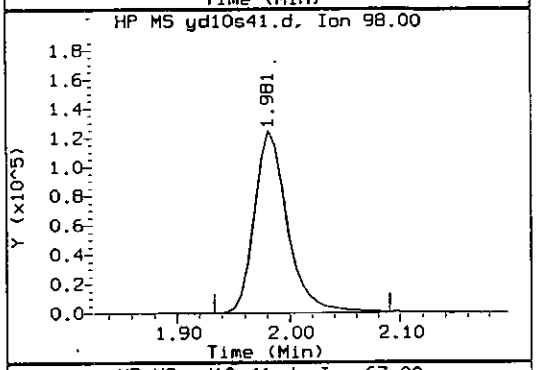
Sample Spectrum (Background Subtracted)

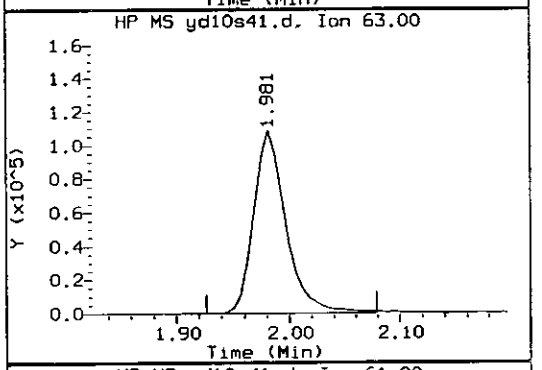


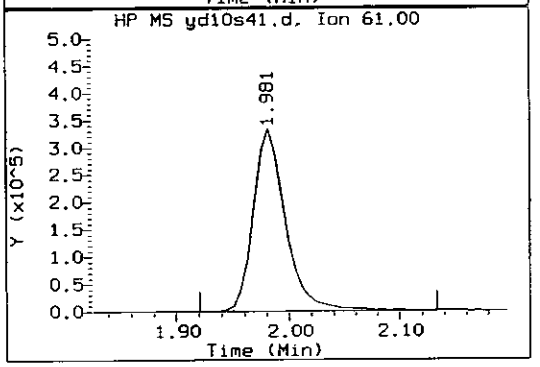
Sample Spectrum (Unaltered)











Data File: /chem2/HP09355.i/09dec10b.b/yd10s41.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 20:56 Analyst ID: NRR01826

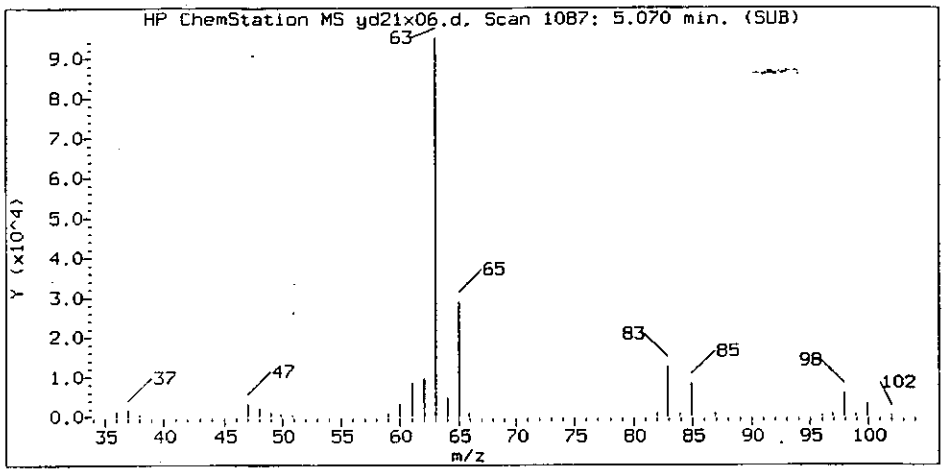
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:32 maz02012

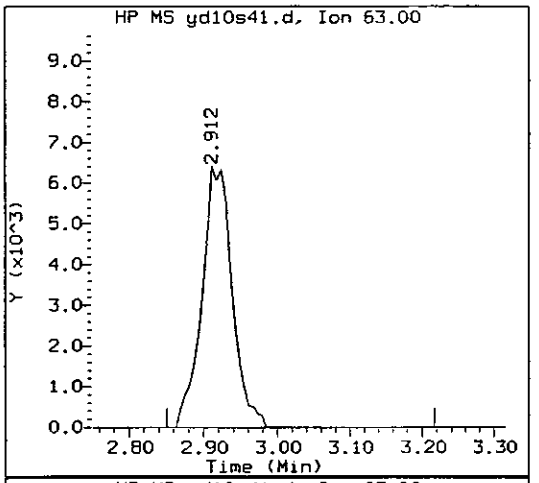
Sample Name: PAT17 Lab Sample ID: 5859191

Compound Number : 16
Compound Name : 1,1-Dichloroethene
Scan Number : 189
Retention Time (minutes): 1.981
Quant Ion : 96.0
Area (flag) : 397853
Concentration (ug/L) : 91.1783

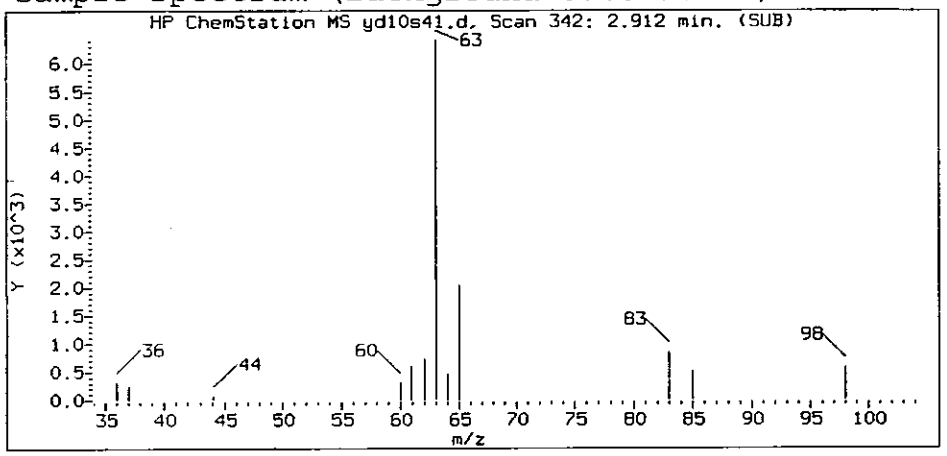
PTL04 0118

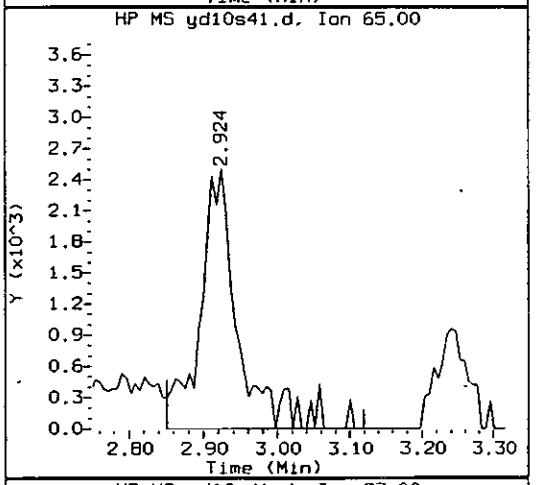
Reference Standard Spectrum for 1,1-Dichloroethane



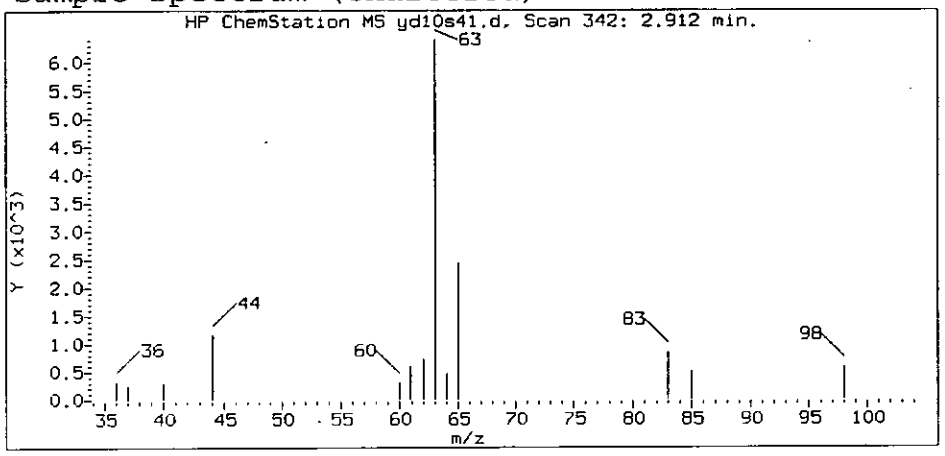


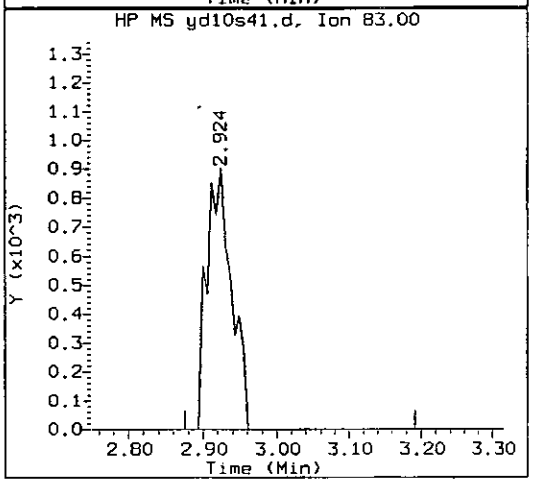
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s41.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 20:56 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:32 maz02012

Sample Name: PAT17 Lab Sample ID: 5859191

Compound Number : 34
Compound Name : 1,1-Dichloroethane
Scan Number : 342
Retention Time (minutes): 2.912
Quant Ion : 63.0
Area (flag) : 18054
Concentration (ug/L) : 1.9724

PT184 0119

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s41.d, generated on 12/10/2009 at 22:32

PAT18

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859192

File: /chem2/HP09355.i/09dec10b.b/yd10s42.d
Sample: PAT18;5859192;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:17
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.340(0.006)	248	65	148129(-20)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	969309(-18)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	715481(-17)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	429219(-24)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.891(0.001)	113	253895	51.394	103%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	61710	48.680	97%		77 - 113
93) Toluene-d8	(2)	6.185(0.000)	98	920285	46.402	93%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	324895	43.469	87%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.975(0.000)	96	129579	30.279	30.28			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)	2.912(0.001)	63	16642	1.854	1.85		J	1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)	3.922(0.001)	97	12914	1.460	1.46		J	0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8128

PAT18

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859192

File: /chem2/HP09355.i/09dec10b.b/yd10s42.d
Sample: PAT18;5859192;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:17
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PAT18

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859192

File: /chem2/HP09355.i/09dec10b.b/yd10s42.d
Sample: PAT18;5859192;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:17
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: Date: 12/12/09

Auditor: Date: 12-18-09

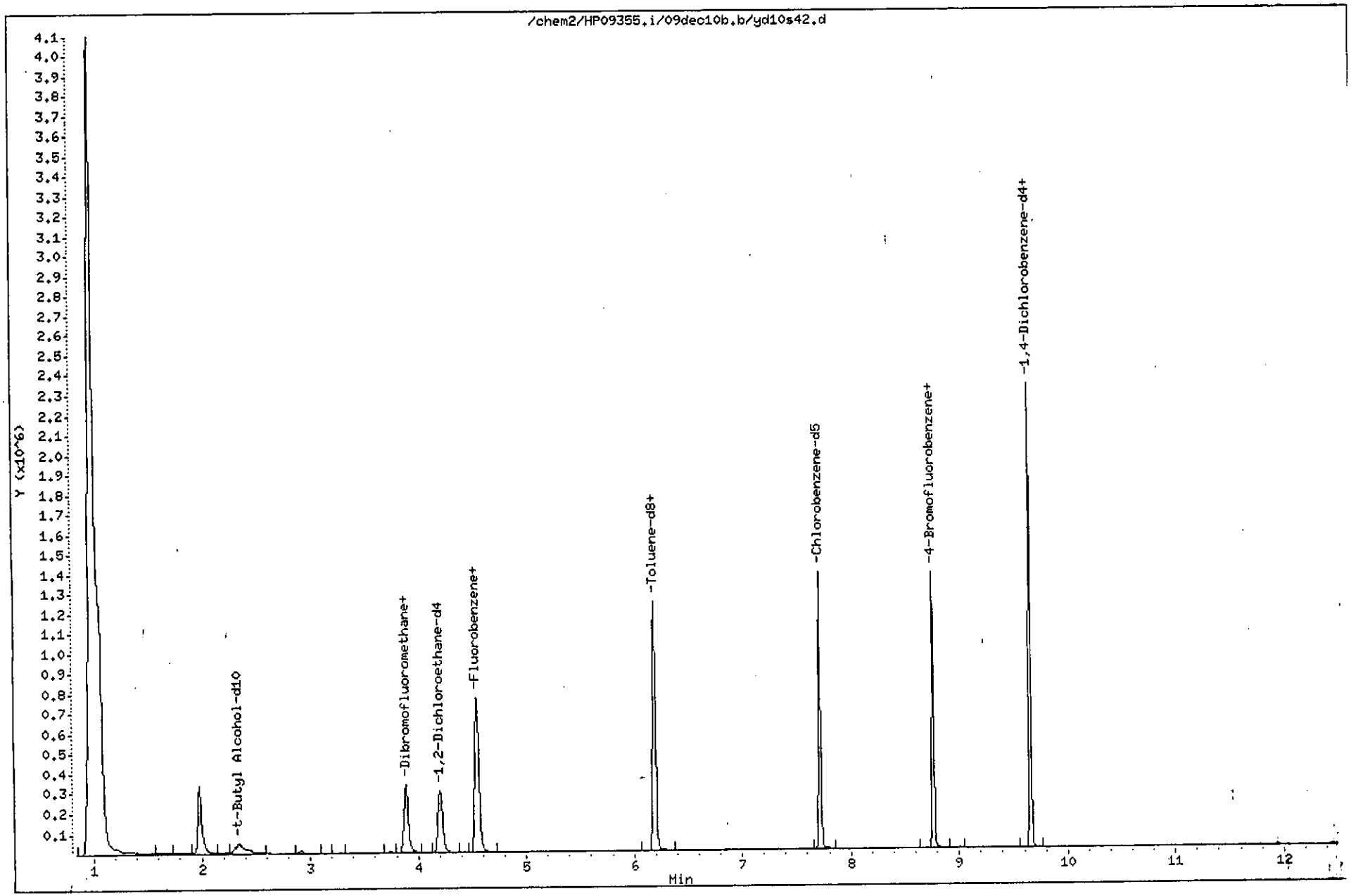
PTL04 B122

Data File: /chem2/HP09355.i/09dec10b.b/yd10s42.d
Date : 10-DEC-2009 21:17
Client ID: PAT18
Sample Info: PAT18;5859192;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18

MS/MC 12/10/09



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s42.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 21:17 Analyst ID: NRR01826

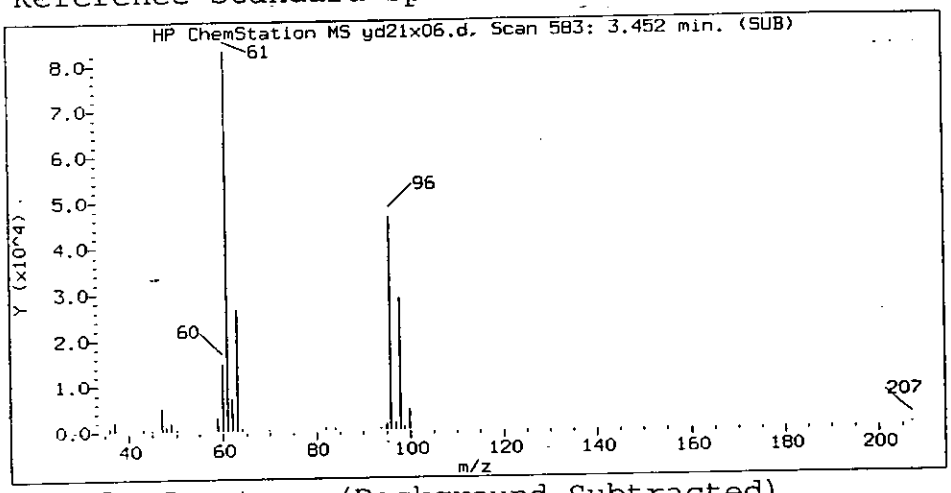
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:33 maz02012

Sample Name: PAT18 Lab Sample ID: 5859192

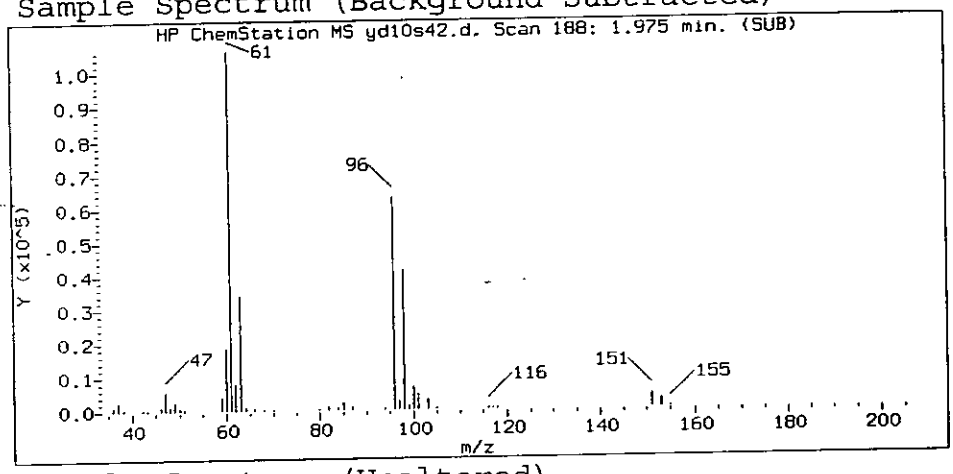
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.975	96	129579	30.279
28) *t-Butyl Alcohol-d10	(4)	2.340	65	148129	250.000
34) 1,1-Dichloroethane	(1)	2.912	63	16642	1.854
53) 1,1,1-Trichloroethane	(1)	3.922	97	12914	1.460
71) *Fluorobenzene	(1)	4.548	96	969309	50.000
106) *Chlorobenzene-d5	(2)	7.718	117	715481	50.000
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	429219	50.000
52) $Dibromofluoromethane	(1)	3.891	113	253895	51.394
62) $1,2-Dichloroethane-d4	(1)	4.208	102	61710	48.680
93) $Toluene-d8	(2)	6.185	98	920285	46.402
119) $4-Bromofluorobenzene	(2)	8.764	95	324895	43.469

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

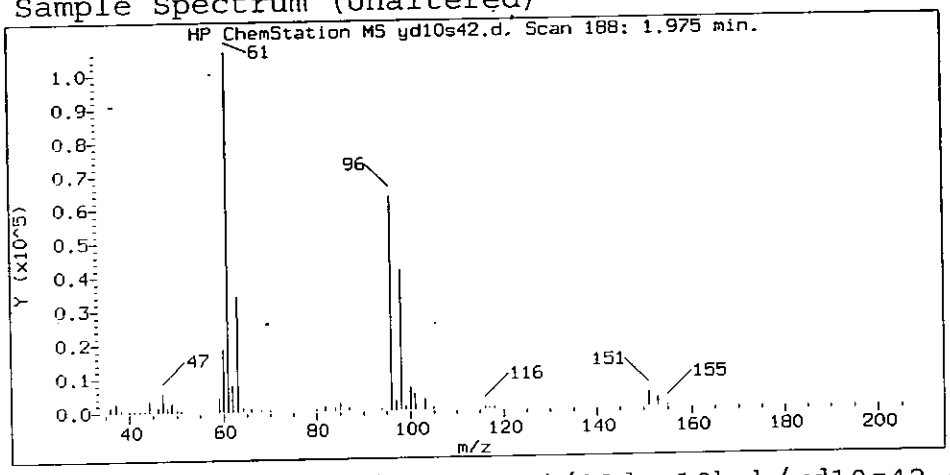
Reference Standard Spectrum for 1,1-Dichloroethene

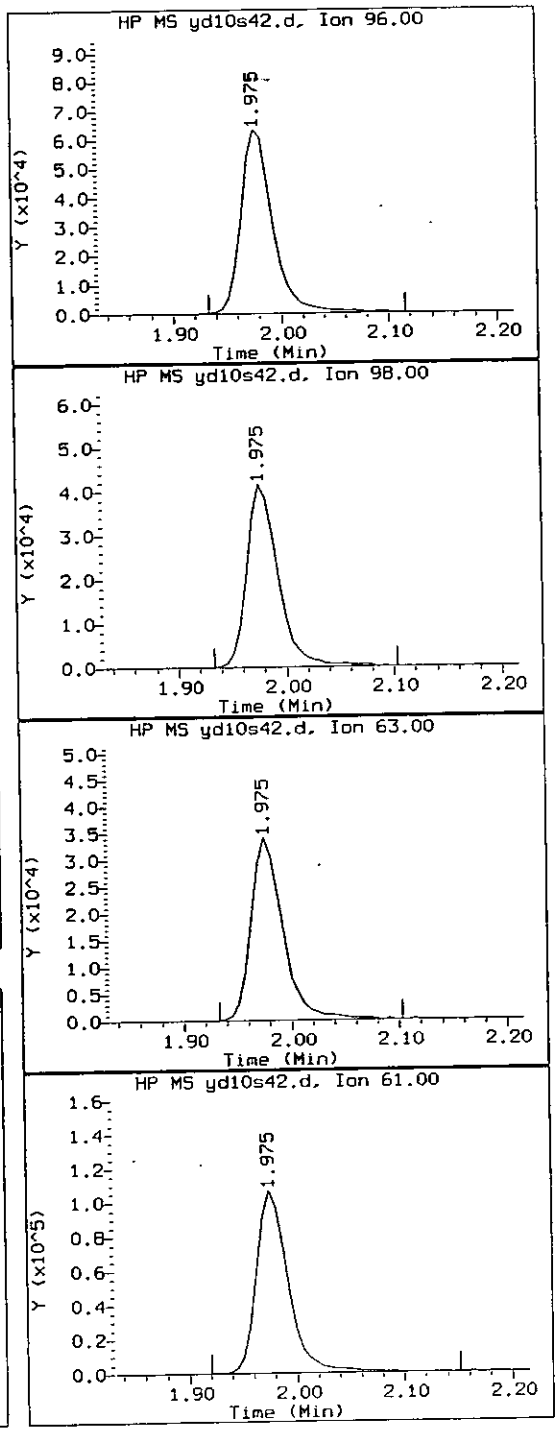


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s42.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 21:17 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:33 maz02012

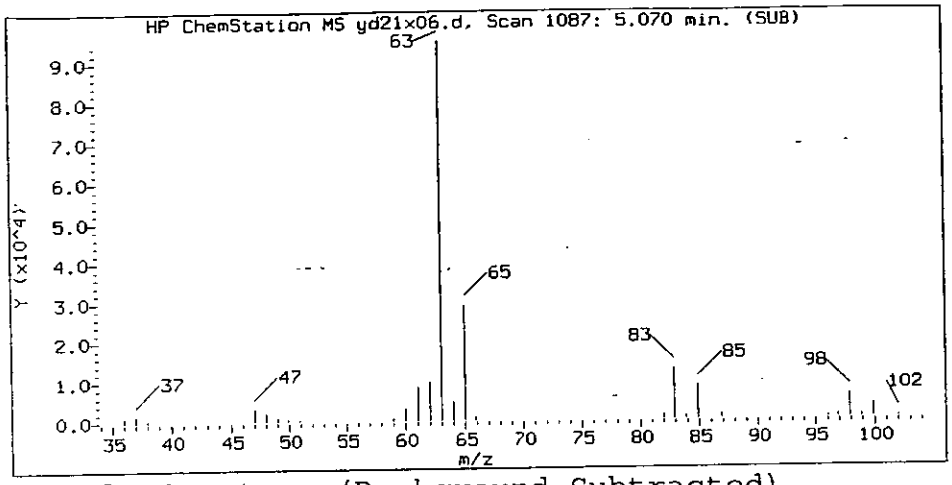
Sample Name: PAT18 Lab Sample ID: 5859192

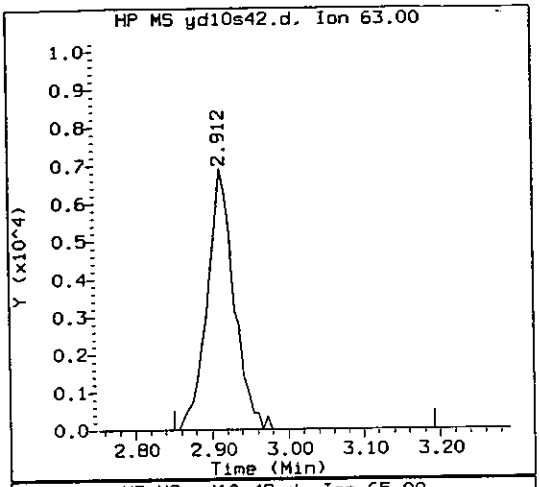
Compound Number	: 16
Compound Name	: 1,1-Dichloroethene
Scan Number	: 188
Retention Time (minutes)	: 1.975
Quant Ion	: 96.0
Area (flag)	: 129579
Concentration (ug/L)	: 30.2791

PTL04 0125

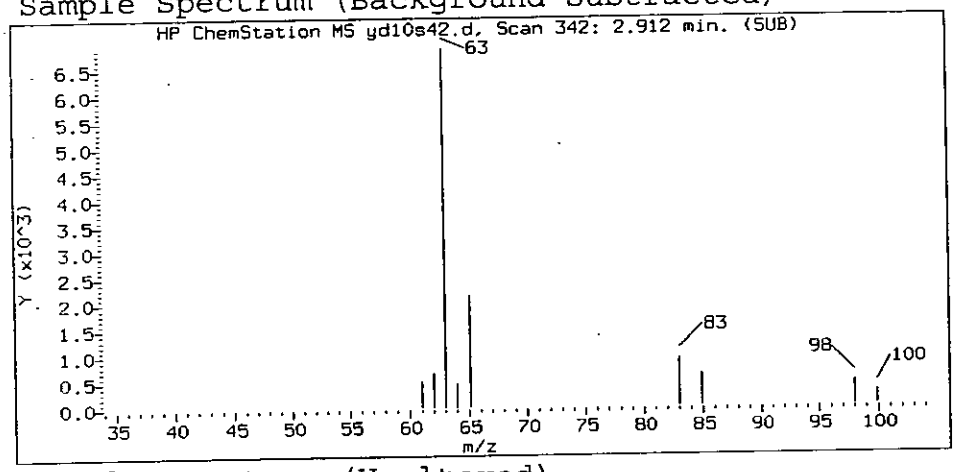
Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s42.d, generated on 12/10/2009 at 22:33

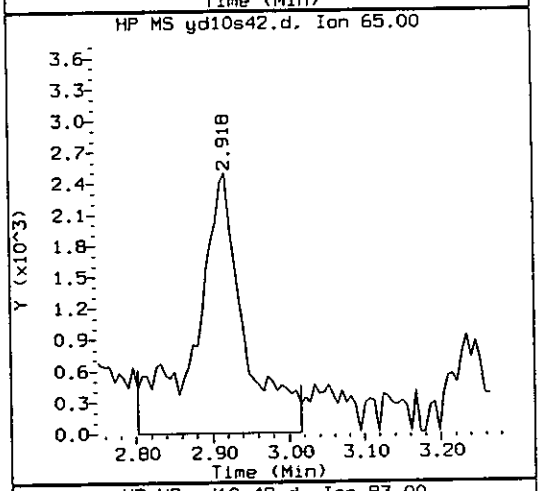
Reference Standard Spectrum for 1,1-Dichloroethane



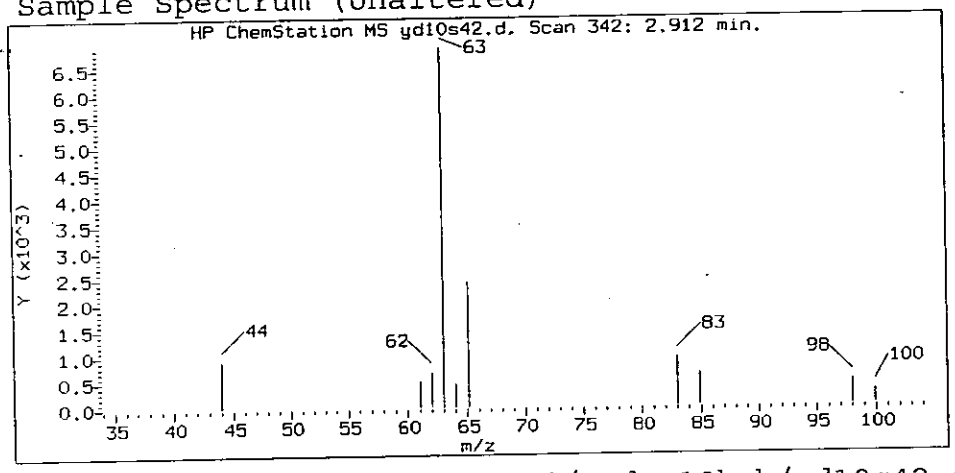


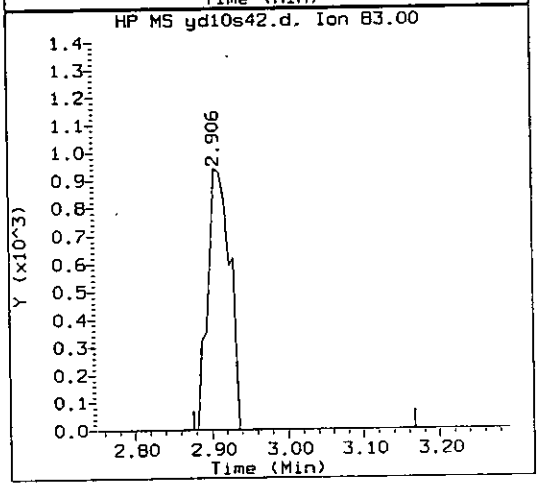
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s42.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 21:17 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:33 maz02012

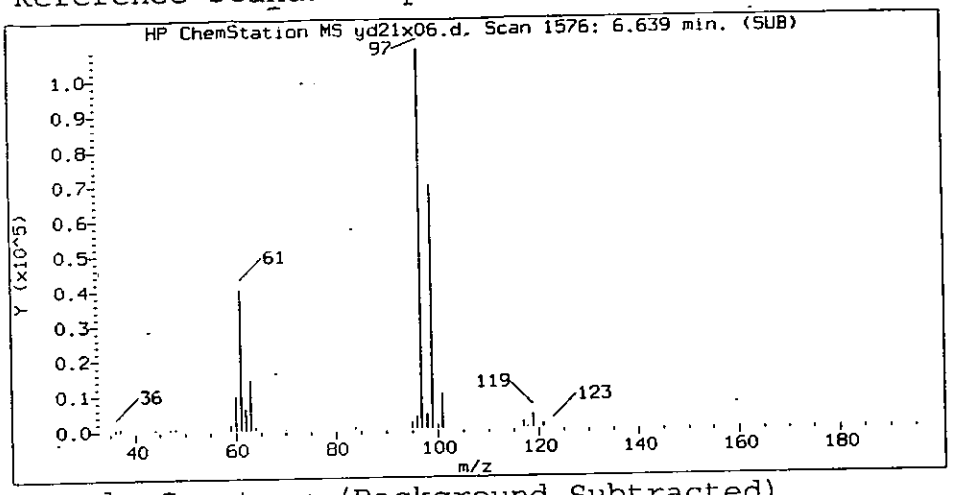
Sample Name: PAT18 Lab Sample ID: 5859192

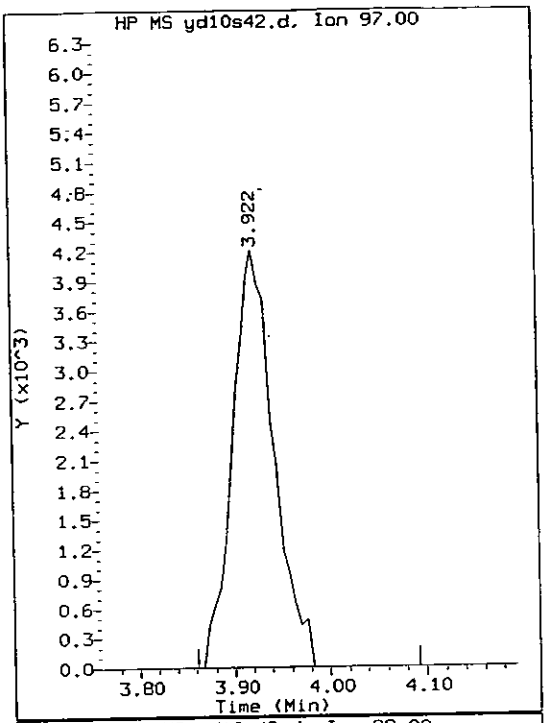
Compound Number : 34
Compound Name : 1,1-Dichloroethane
Scan Number : 342
Retention Time (minutes) : 2.912
Quant Ion : 63.0
Area (flag) : 16642
Concentration (ug/L) : 1.8538

PTL84 0126

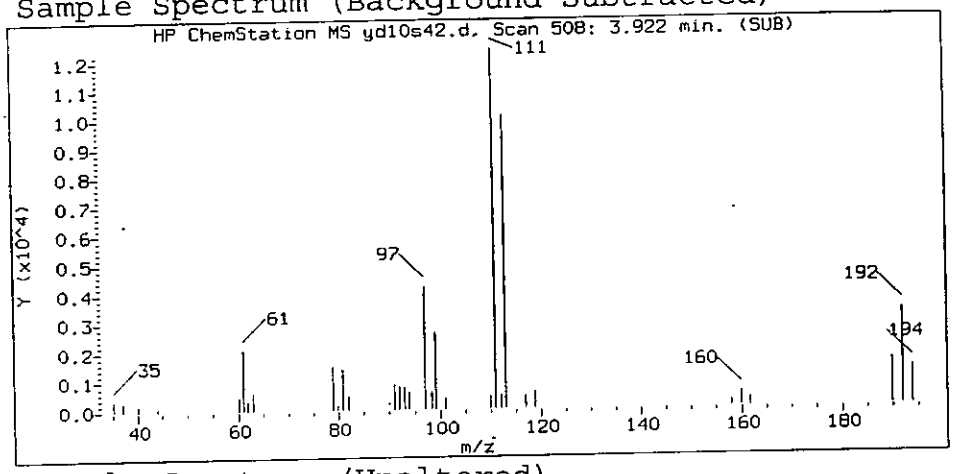
Hit Data Report for data file./chem2/HP09355.i/09dec10b.b/yd10s42.d, generated on 12/10/2009 at 22:3

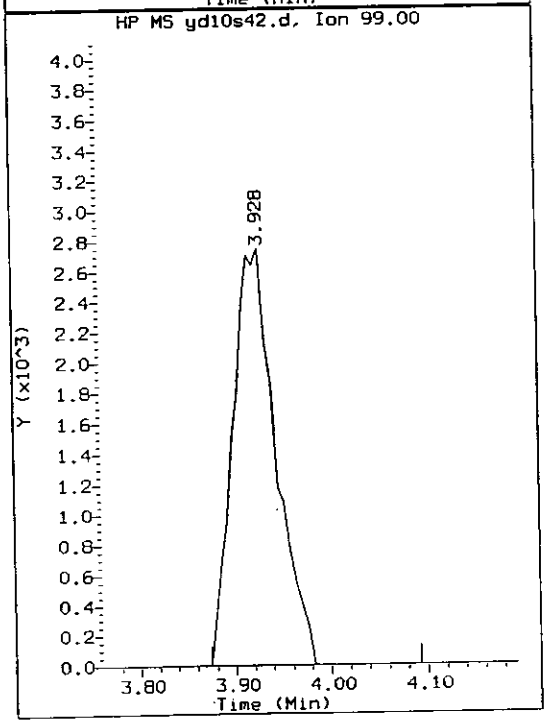
Reference Standard Spectrum for 1,1,1-Trichloroethane



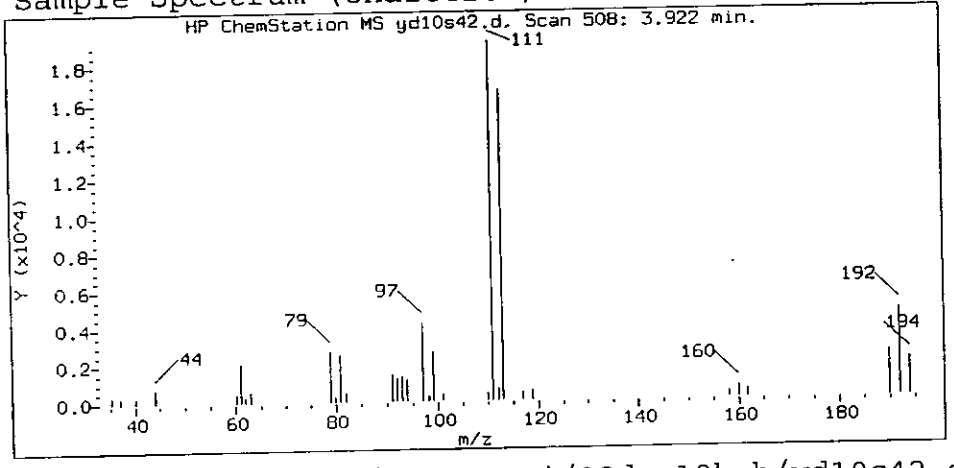


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP09355.i/09dec10b.b/yd10s42.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 21:17 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:33 maz02012

Sample Name: PAT18 Lab Sample ID: 5859192

Compound Number	: 53
Compound Name	: 1,1,1-Trichloroethane
Scan Number	: 508
Retention Time (minutes)	: 3.922
Quant Ion	: 97.0
Area (flag)	: 12914
Concentration (ug/L)	: 1.4600

PTL84 8127

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s42.d, generated on 12/10/2009 at 22:3

PATT-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859193

File: /chem2/HP09355.i/09dec10b.b/yd10s43.d
Sample: PATT-;5859193;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:37
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	166883(-10)	250.00	
71) Fluorobenzene	4.542(0.006)	610	96	956428(-19)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	708165(-18)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	431595(-23)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.891(0.000)	113	252858	51.874	104%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.196(0.001)	102	54465	43.544	87%		77 - 113
93) Toluene-d8	(2)	6.185(0.000)	98	908916	46.302	93%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	321484	43.457	87%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 2128

PATT-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859193

File: /chem2/HP09355.i/09dec10b.b/yd10s43.d
Sample: PATT-;5859193;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:37
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 8129

PATT-

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859193

File: /chem2/HP09355.i/09dec10b.b/yd10s43.d
Sample: PATT-;5859193;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:37
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

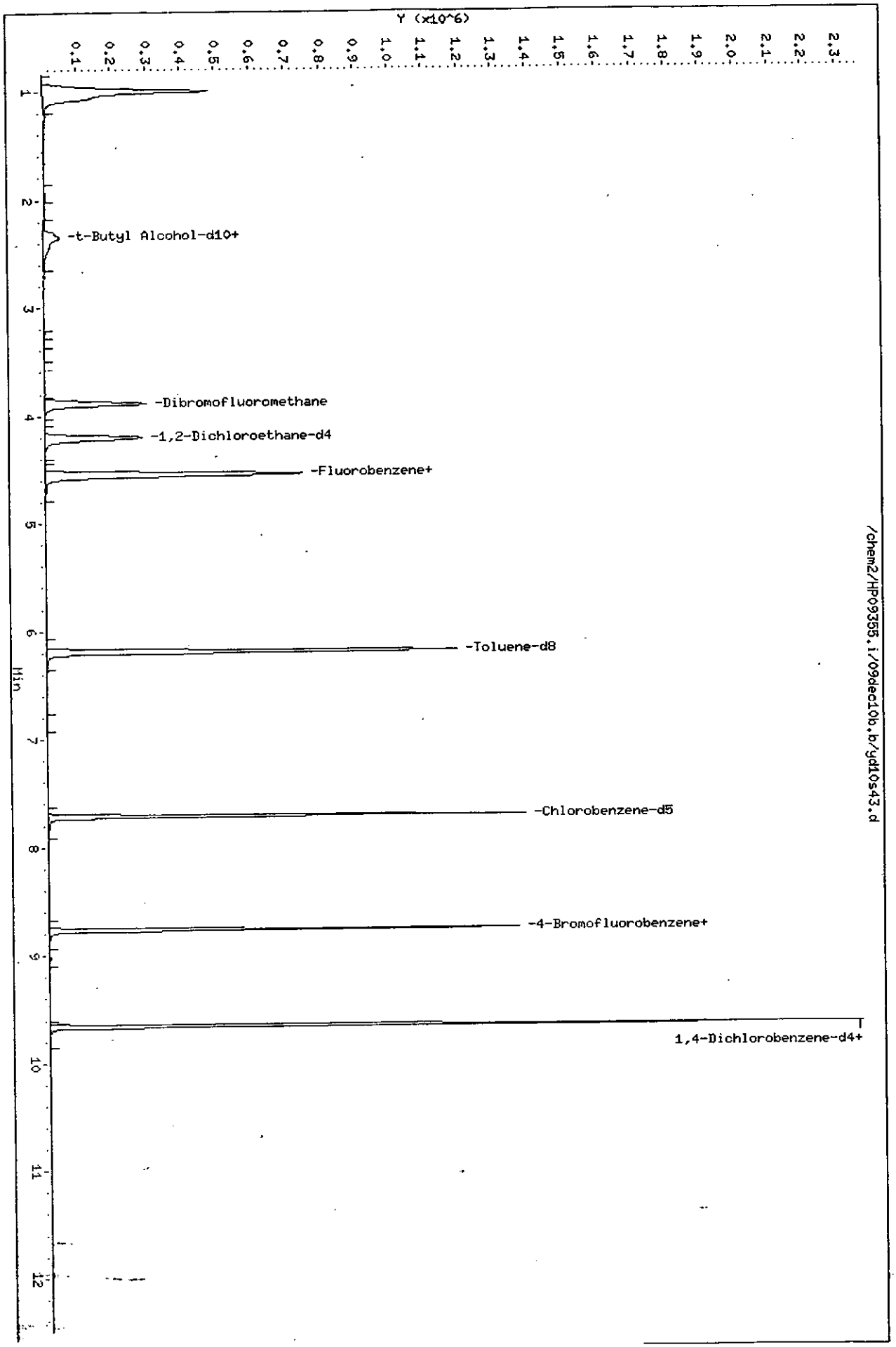
Analyst: Date: 12/12/09

Auditor: Date: 12-18-09

PT184 0138

Data File: /chem2/HP09355.i/09dec10b.b/yd10s43.d
Date : 10-DEC-2009 21:37
Client ID: PATT-
Sample Info: PATT-;58859193;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



12/10/09

PTL04 8131

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s43.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 21:37 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:35 maz02012

Sample Name: PATT- Lab Sample ID: 5859193

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
28)*t-Butyl Alcohol-d10	(4)	2.346	65	166883	250.000
71)*Fluorobenzene	(1)	4.542	96	956428	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	708165	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	431595	50.000
52)$Dibromofluoromethane	(1)	3.891	113	252858	51.874
62)$1,2-Dichloroethane-d4	(1)	4.196	102	54465	43.544
93)$Toluene-d8	(2)	6.185	98	908916	46.302
119)$4-Bromofluorobenzene	(2)	8.764	95	321484	43.457

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PA18D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859194

File: /chem2/HP09355.i/09dec10b.b/yd10s44.d
Sample: PA18D;5859194;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:58
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	159908(-13)	250.00	
71) Fluorobenzene	4.542(0.006)	610	96	948695(-19)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	705685(-18)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	428528(-24)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.891(0.000)	113	250672	51.845	104%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(-0.001)	102	59636	48.066	96%		77 - 113
93) Toluene-d8	(2)	6.185(0.000)	98	903044	46.164	92%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	320888	43.529	87%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.002)	96	157118	37.512	37.51			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)	2.912(0.000)	63	16092	1.831	1.83		J	1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)	3.745(-0.001)	83	7512	0.893	0.89		J	0.80	5.00
53) 1,1,1-Trichloroethane	(1)	3.922(0.000)	97	8376	0.968	0.97		J	0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 0133

PA18D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859194

File: /chem2/HP09355.i/09dec10b.b/yd10s44.d
Sample: PA18D;5859194;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:58
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PA18D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859194

File: /chem2/HP09355.i/09dec10b.b/yd10s44.d
Sample: PA18D;5859194;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 21:58
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: LVMoor Date: 12/11/09

Auditor: [signature] Date: 12-18-09

PTL94 8135

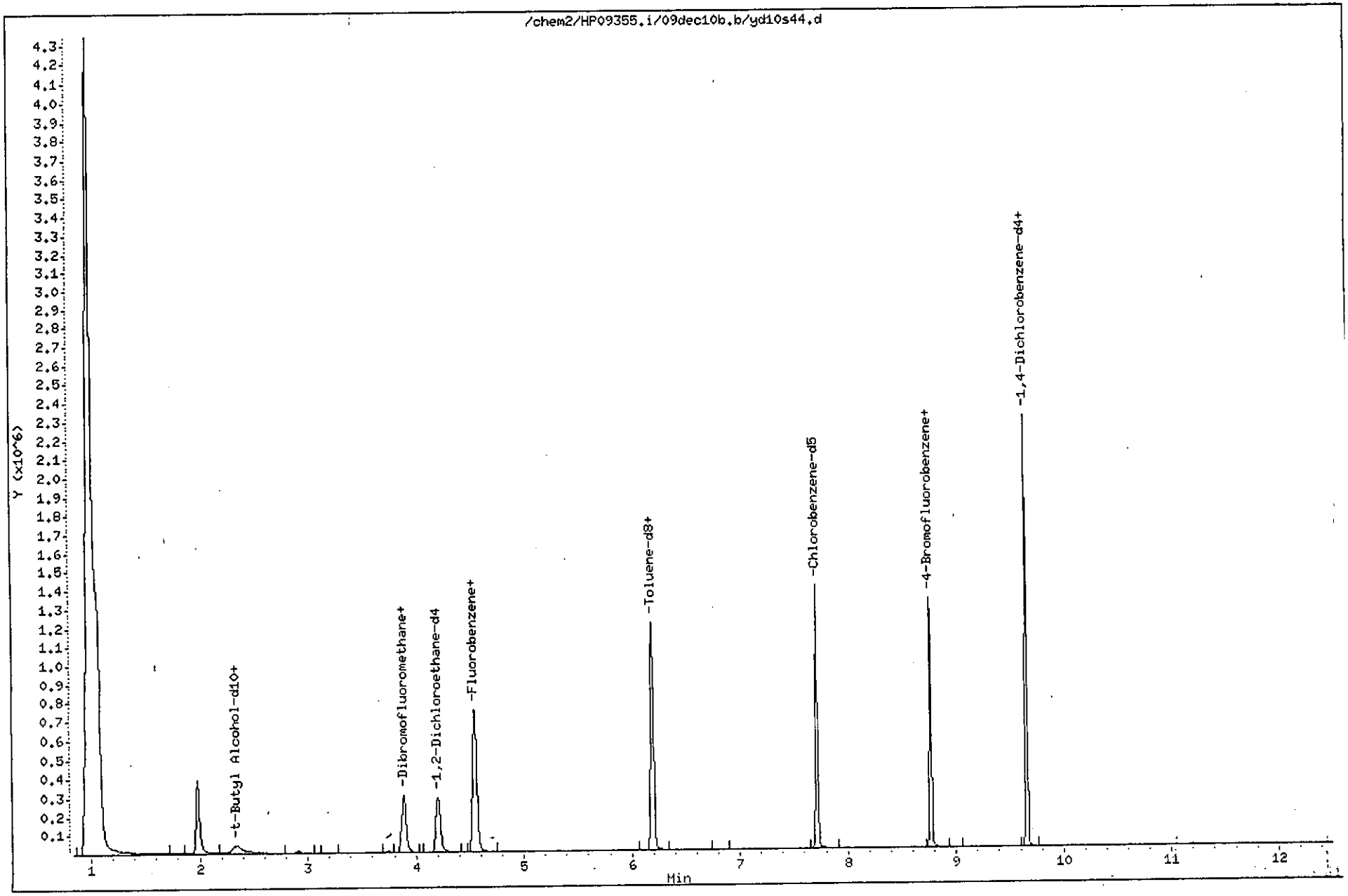
Data File: /chem2/HP09355.i/09dec10b.b/yd10s44.d
Date : 10-DEC-2009 21:58
Client ID: PA18D
Sample Info: PA18D;5859194;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18

MB/20 12/10/09

PTB4 #136



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s44.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 21:58 Analyst ID: NRR01826

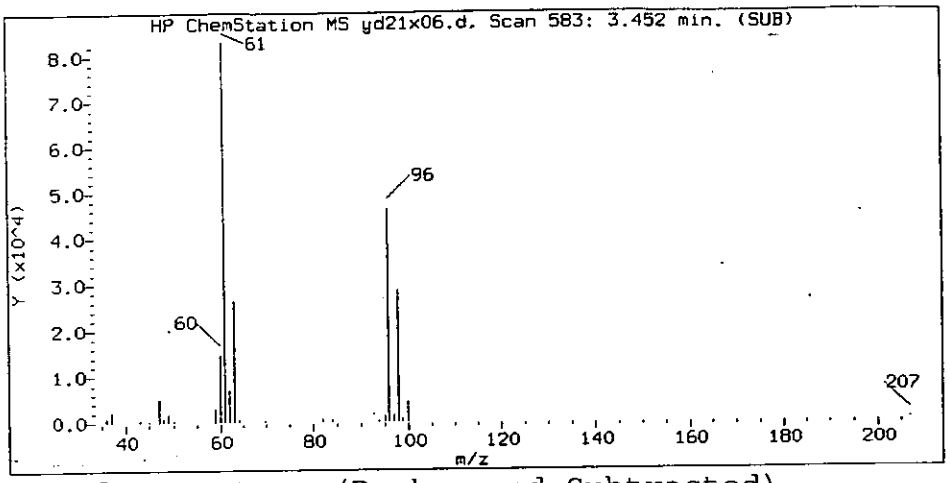
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:36 maz02012

Sample Name: PA18D Lab Sample ID: 5859194

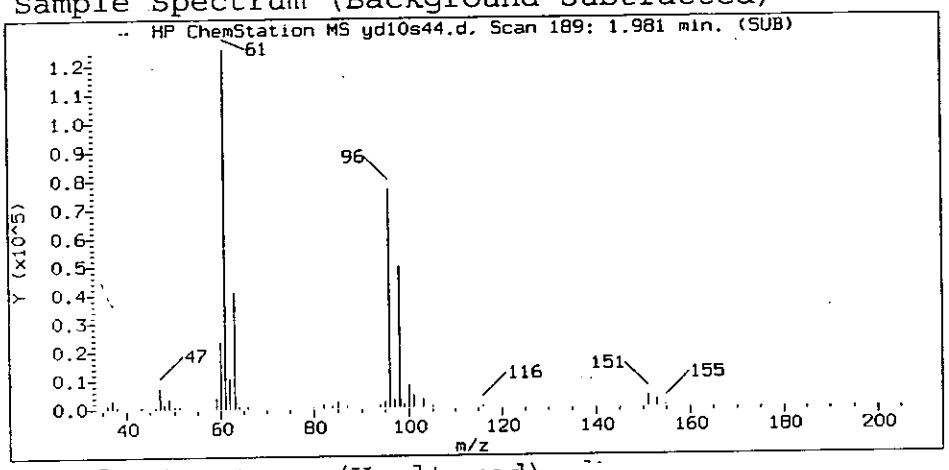
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.981	96	157118	37.512
28)*t-Butyl Alcohol-d10	(4)	2.346	65	159908	250.000
34) 1,1-Dichloroethane	(1)	2.912	63	16092	1.831
50) Chloroform	(1)	3.745	83	7512	0.893
53) 1,1,1-Trichloroethane	(1)	3.922	97	8376	0.968
71)*Fluorobenzene	(1)	4.542	96	948695	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	705685	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	428528	50.000
52)$Dibromofluoromethane	(1)	3.891	113	250672	51.845
62)$1,2-Dichloroethane-d4	(1)	4.208	102	59636	48.066
93)$Toluene-d8	(2)	6.185	98	903044	46.164
119)$4-Bromofluorobenzene	(2)	8.764	95	320888	43.529

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

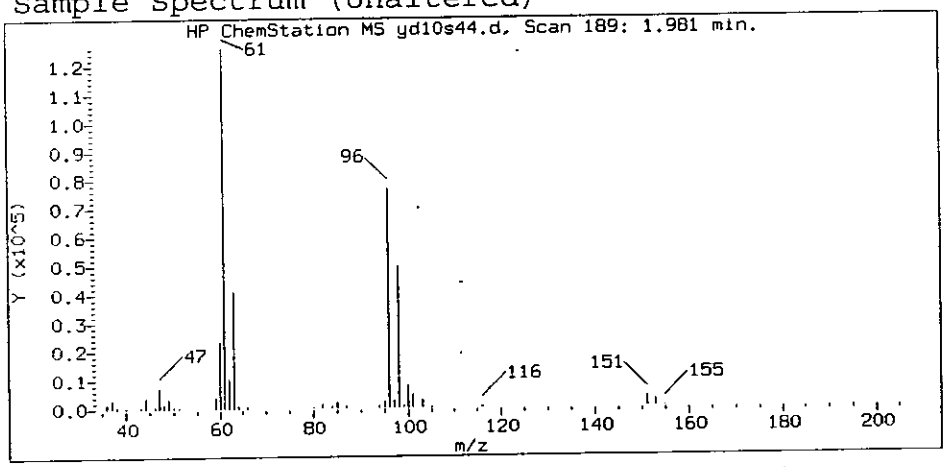
Reference Standard Spectrum for 1,1-Dichloroethene

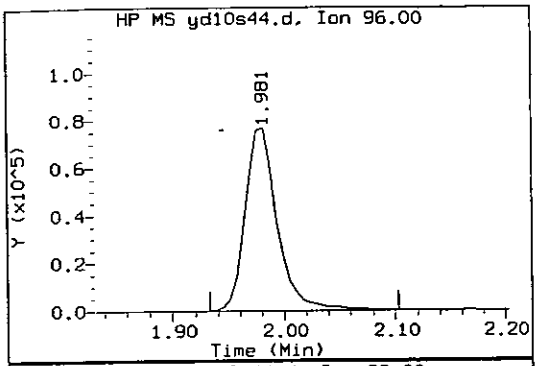


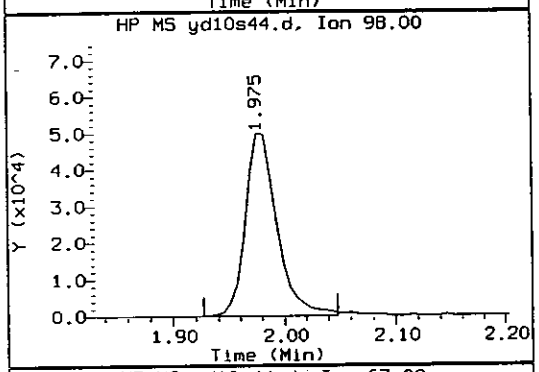
Sample Spectrum (Background Subtracted)

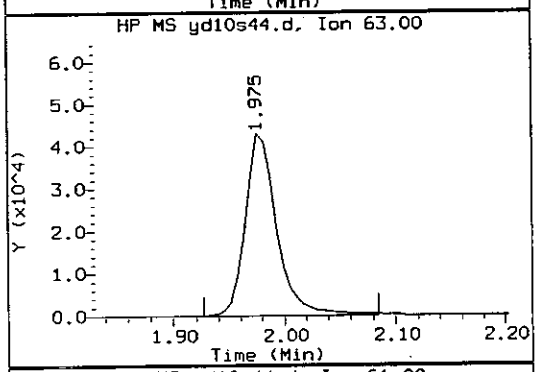


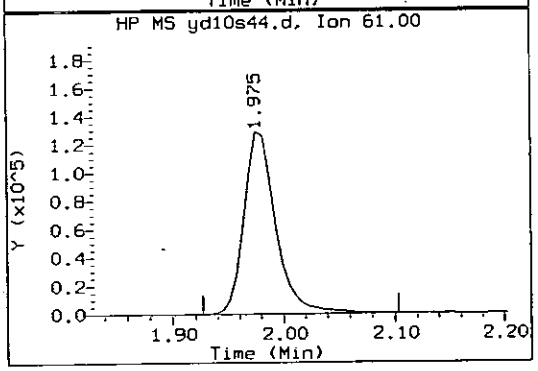
Sample Spectrum (Unaltered)











Data File: /chem2/HP09355.i/09dec10b.b/yd10s44.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 21:58 Analyst ID: NRR01826

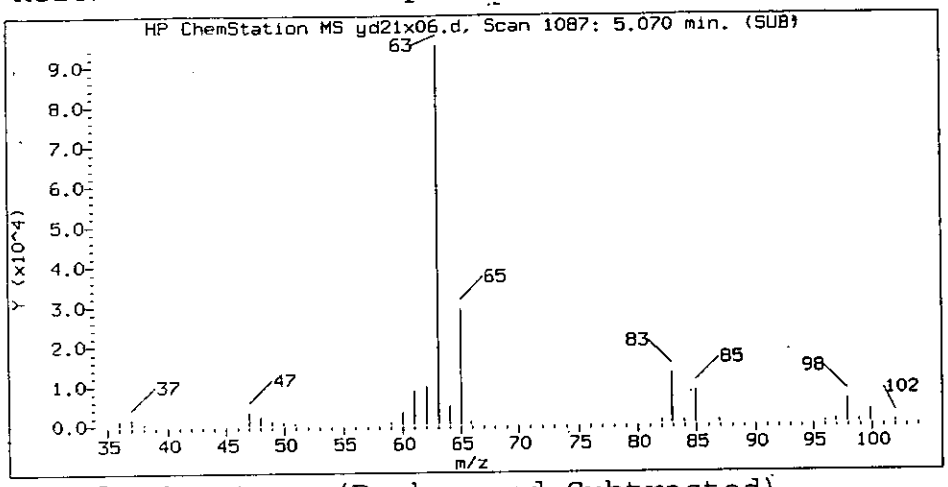
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:36 maz02012

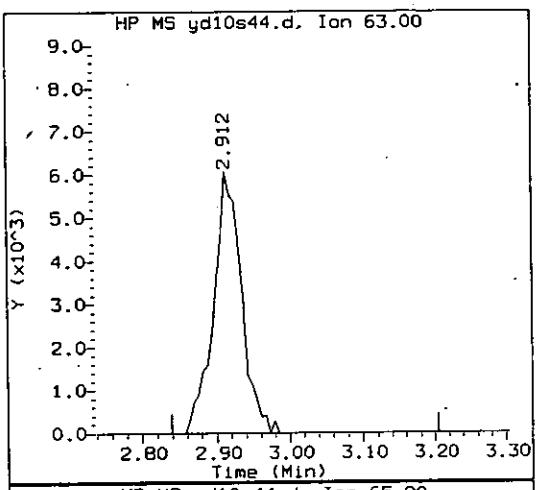
Sample Name: PA18D Lab Sample ID: 5859194

Compound Number : 16
Compound Name : 1,1-Dichloroethene
Scan Number : 189
Retention Time (minutes) : 1.981
Quant Ion : 96.0
Area (flag) : 157118
Concentration (ug/L) : 37.5119

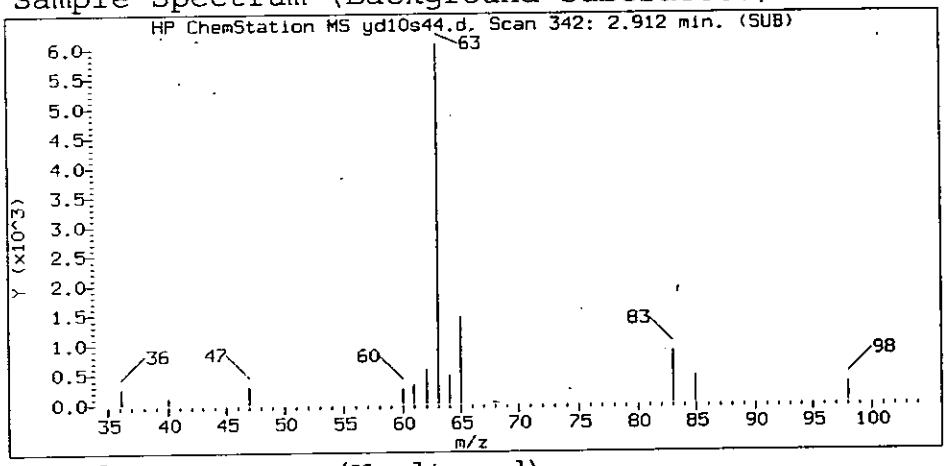
PTL04 0138

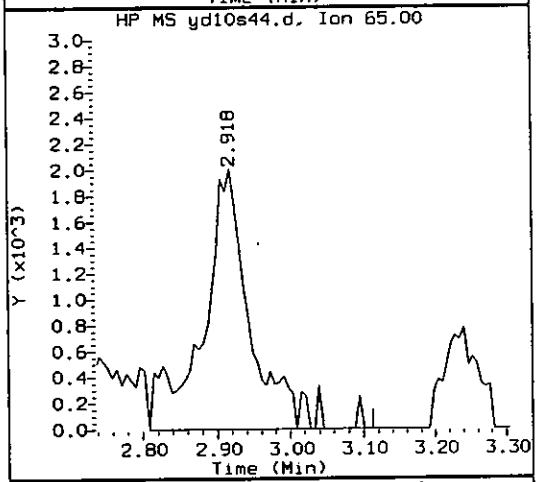
Reference Standard Spectrum for 1,1-Dichloroethane



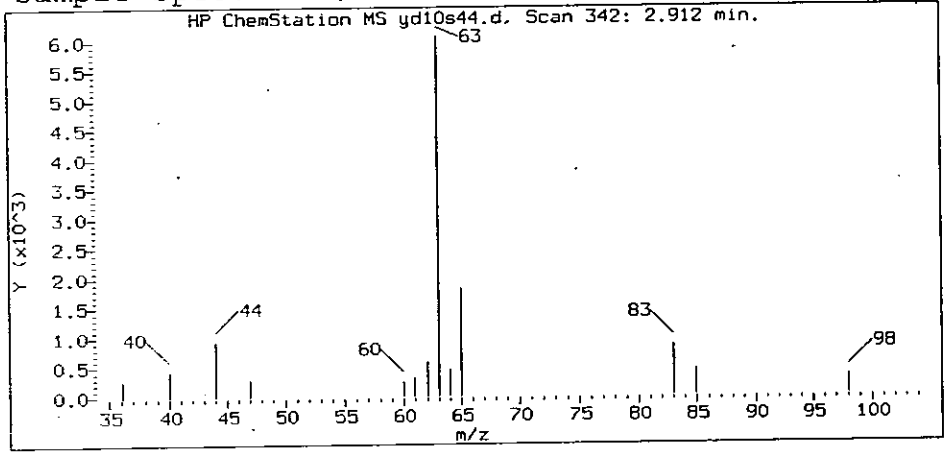


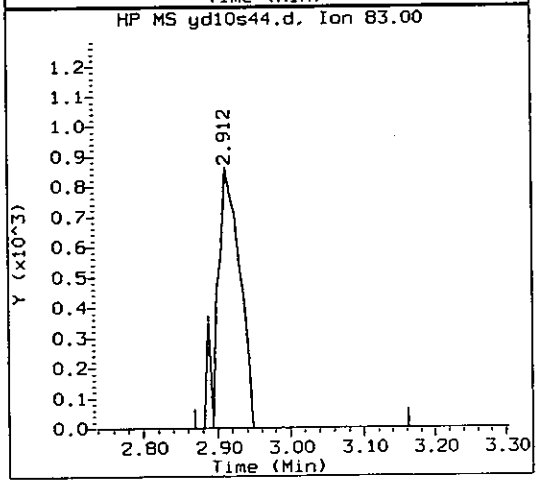
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s44.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 21:58 Analyst ID: NRR01826

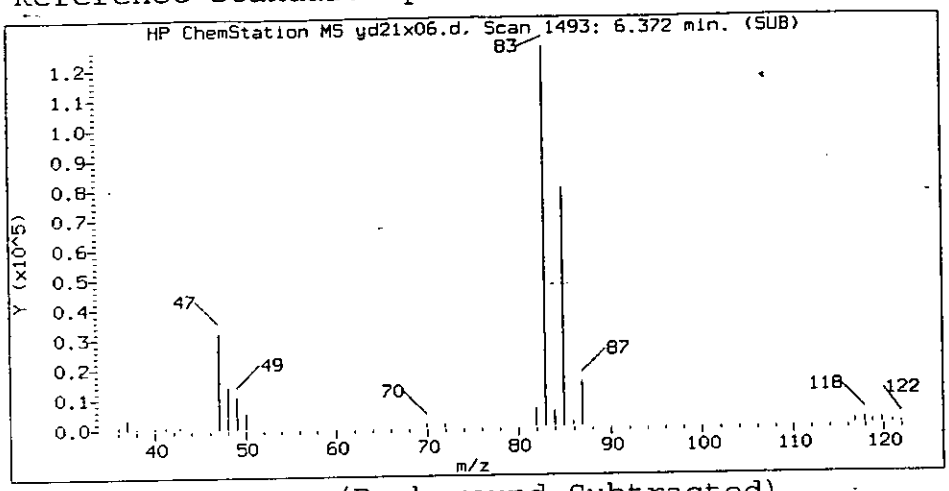
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:36 maz02012

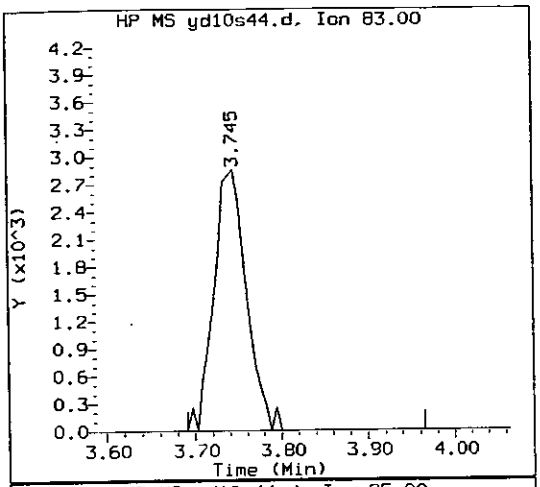
Sample Name: PA18D Lab Sample ID: 5859194

Compound Number : 34
Compound Name : 1,1-Dichloroethane
Scan Number : 342
Retention Time (minutes): 2.912
Quant Ion : 63.0
Area (flag) : 16092
Concentration (ug/L) : 1.8315

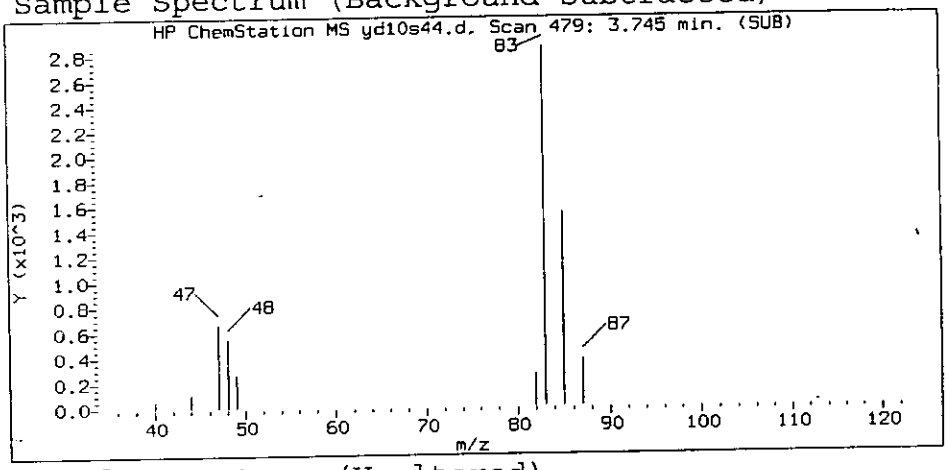
PTL64 P139

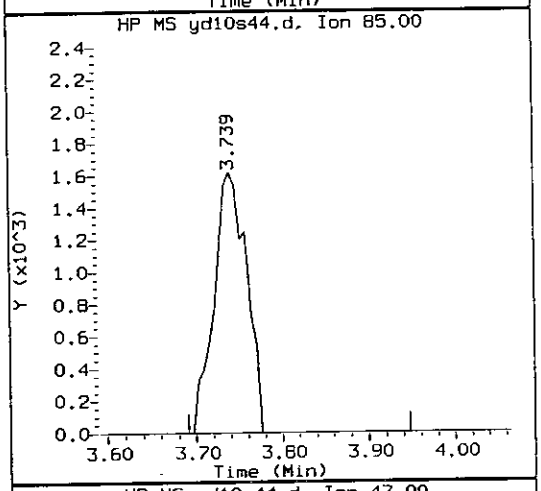
Reference Standard Spectrum for Chloroform



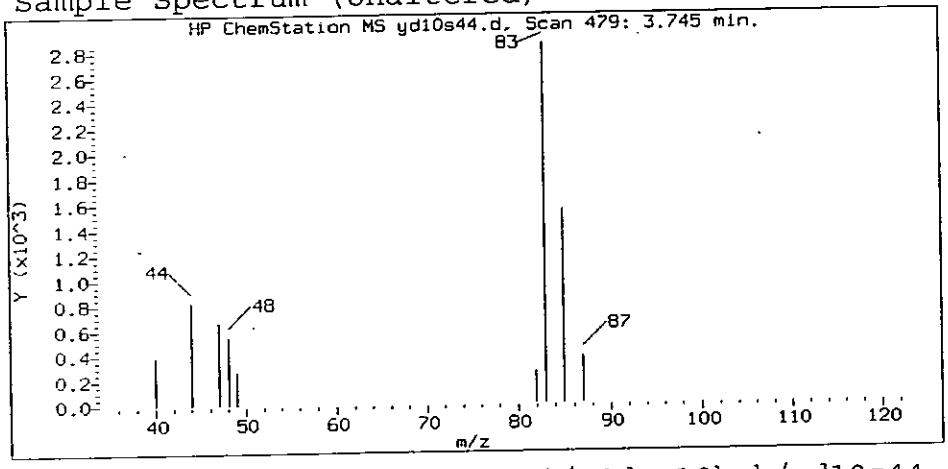


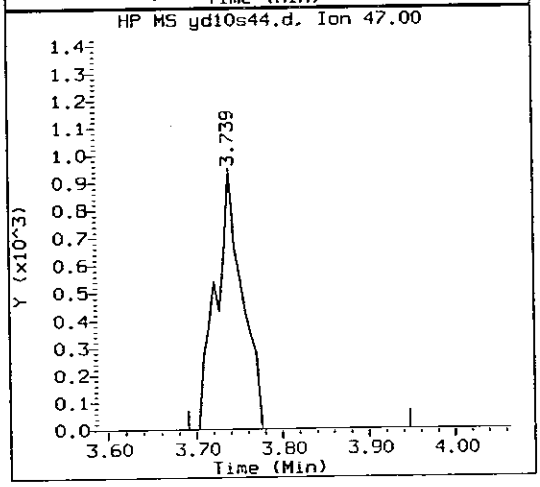
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s44.d
Injection date and time: 10-DEC-2009 21:58

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:36 maz02012

Sample Name: PA18D

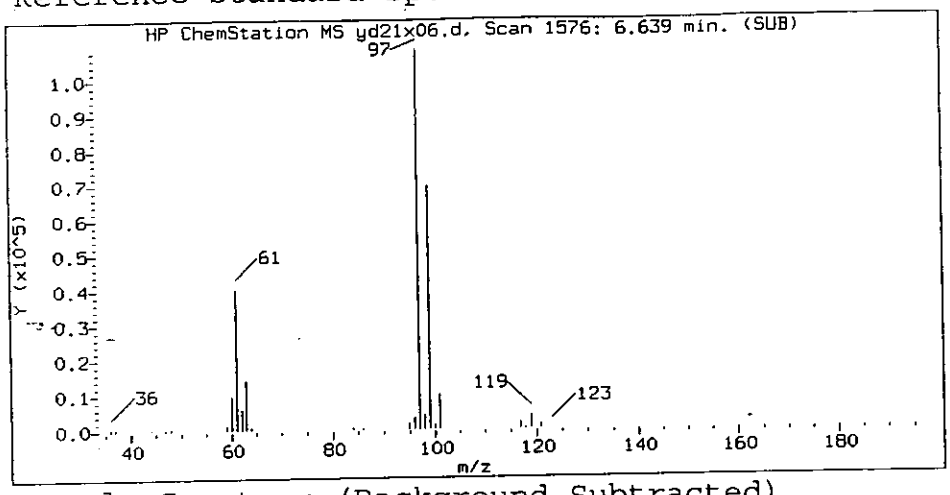
Lab Sample ID: 5859194

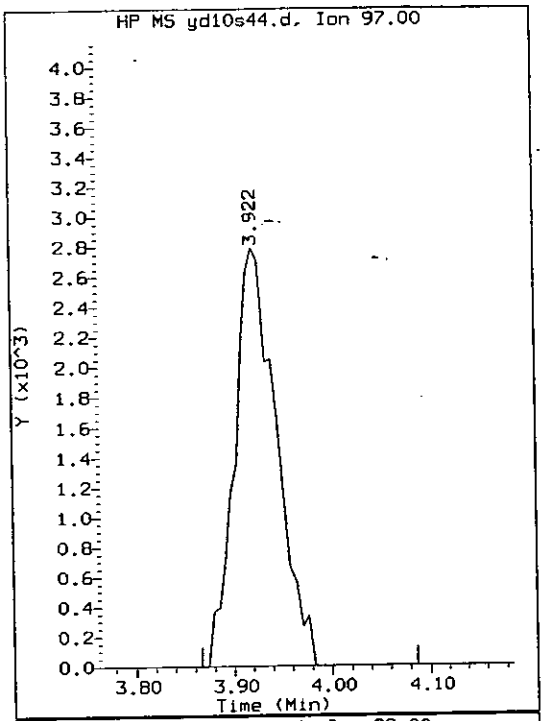
Compound Number	: 50
Compound Name	: Chloroform
Scan Number	: 479
Retention Time (minutes)	: 3.745
Quant Ion	: 83.0
Area (flag)	: 7512
Concentration (ug/L)	: 0.8935

PTL84 0148

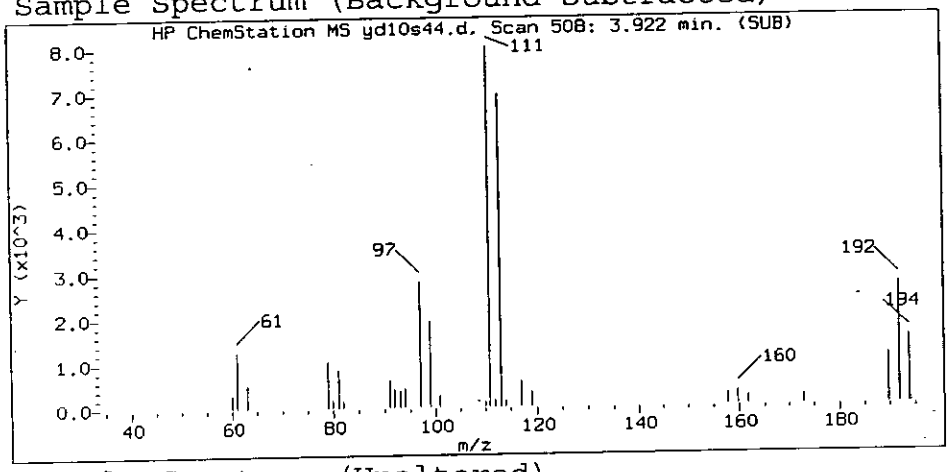
Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s44.d, generated on 12/10/2009 at 22:36

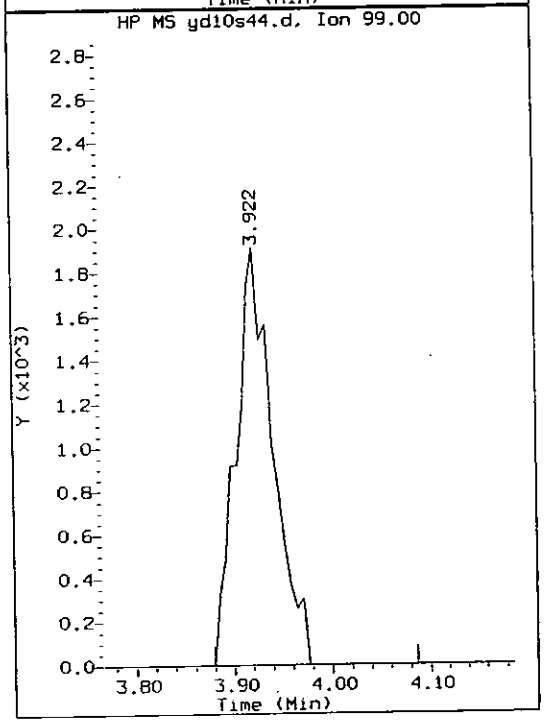
Reference Standard Spectrum for 1,1,1-Trichloroethane



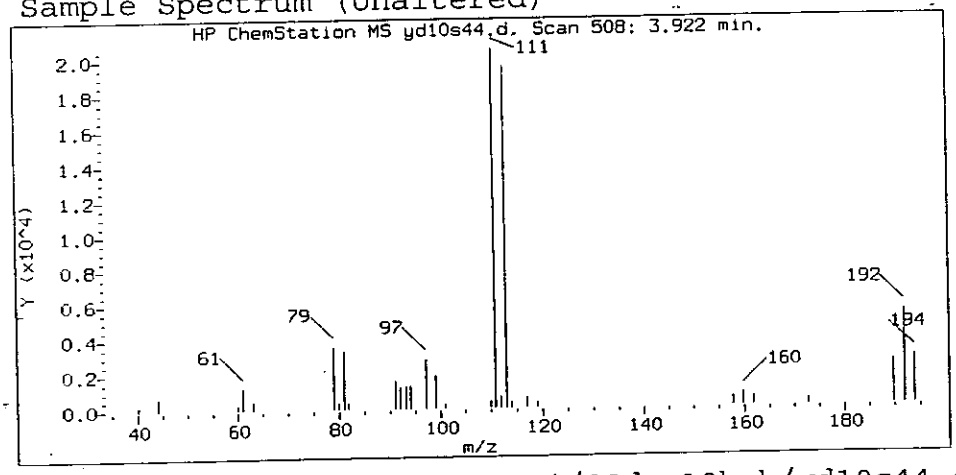


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP09355.i/09dec10b.b/yd10s44.d
Injection date and time: 10-DEC-2009 21:58

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:36 maz02012

Sample Name: PA18D

Lab Sample ID: 5859194

Compound Number	: 53
Compound Name	: 1,1,1-Trichloroethane
Scan Number	: 508
Retention Time (minutes)	: 3.922
Quant Ion	: 97.0
Area (flag)	: 8376
Concentration (ug/L)	: 0.9675

PTL84 8141

Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s44.d, generated on 12/10/2009 at 22:3

PA19S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859195

File: /chem2/HP09355.i/09dec10b.b/yd10s45.d
Sample: PA19S;5859195;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 22:18
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.352(-0.006)	250	65	150363(-19)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	941565(-20)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	696337(-19)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	424134(-25)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.000)	113	249261	51.943	104%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	59473	48.298	97%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	889073	46.060	92%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	315887	43.426	87%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	10737	2.583	2.58		J	0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 0142

PA19S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859195

File: /chem2/HP09355.i/09dec10b.b/yd10s45.d
Sample: PA19S;5859195;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 22:18
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PA19S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859195

File: /chem2/HP09355.i/09dec10b.b/yd10s45.d
Sample: PA19S;585919S;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 22:18
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: LLWW18 Date: 12/11/09

Auditor: Date: 12-8-09

PTL84 8144

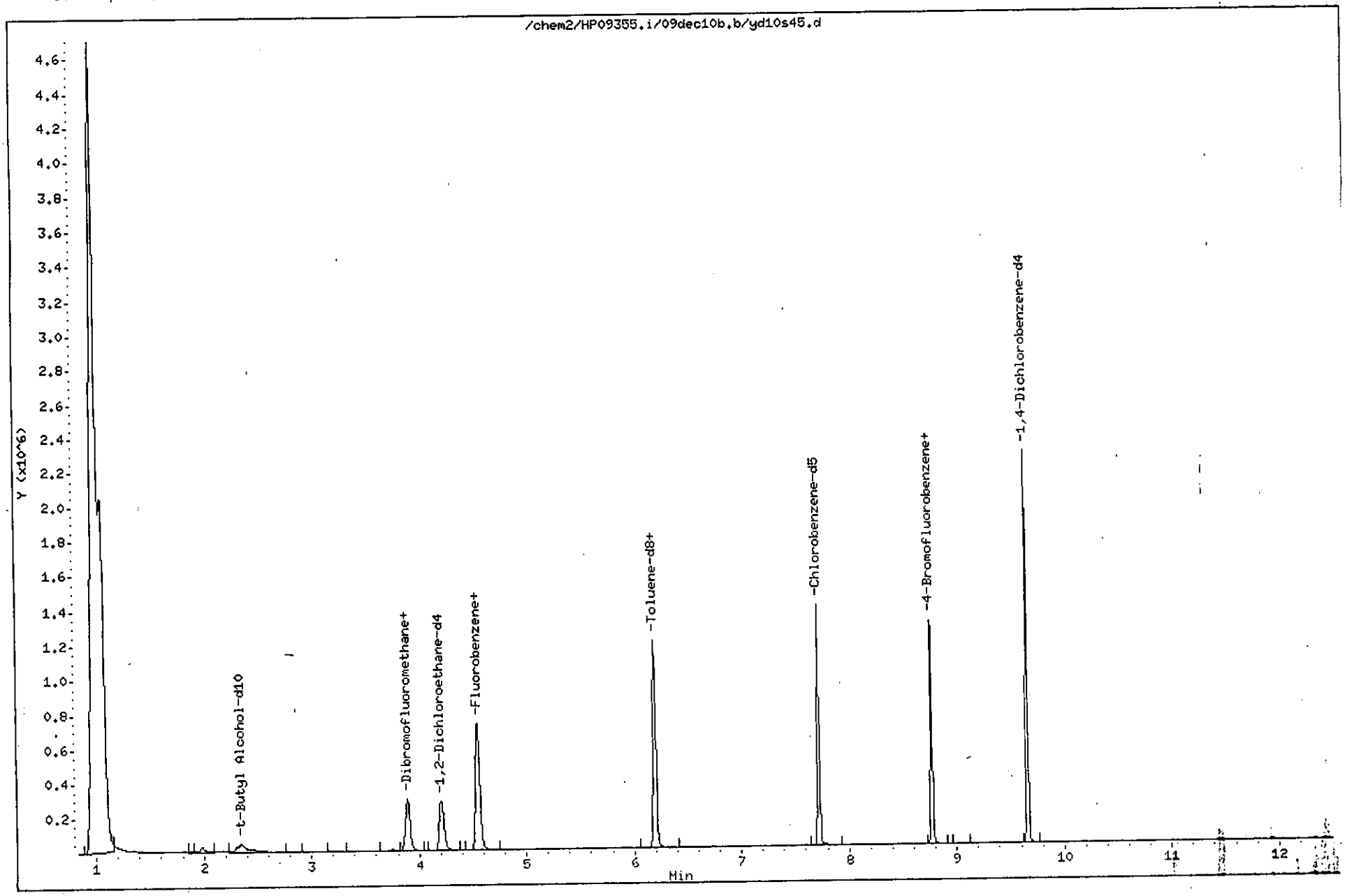
Data File: /chem2/HP09355.i/09dec10b.b/yd10s45.d
Date : 10-DEC-2009 22:18
Client ID: PA19S
Sample Info: PA19S;5859195;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18

MS/2w 12/10/09

PTI04 0145



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s45.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 22:18 Analyst ID: NRR01826

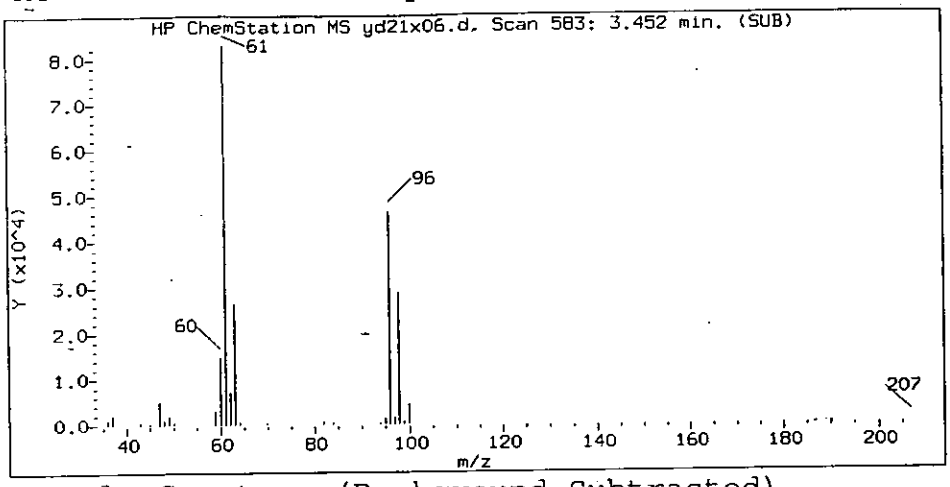
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 22:37 maz02012

Sample Name: PA19S Lab Sample ID: 5859195

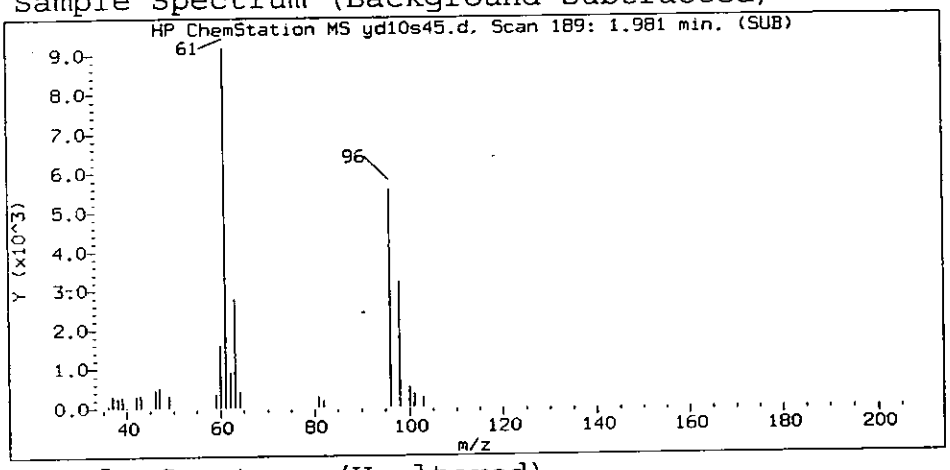
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.981	96	10737	2.583
28)*t-Butyl Alcohol-d10	(4)	2.352	65	150363	250.000
71)*Fluorobenzene	(1)	4.548	96	941565	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	696337	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	424134	50.000
52)$Dibromofluoromethane	(1)	3.897	113	249261	51.943
62)$1,2-Dichloroethane-d4	(1)	4.208	102	59473	48.298
93)$Toluene-d8	(2)	6.191	98	889073	46.060
119)$4-Bromofluorobenzene	(2)	8.764	95	315887	43.426

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

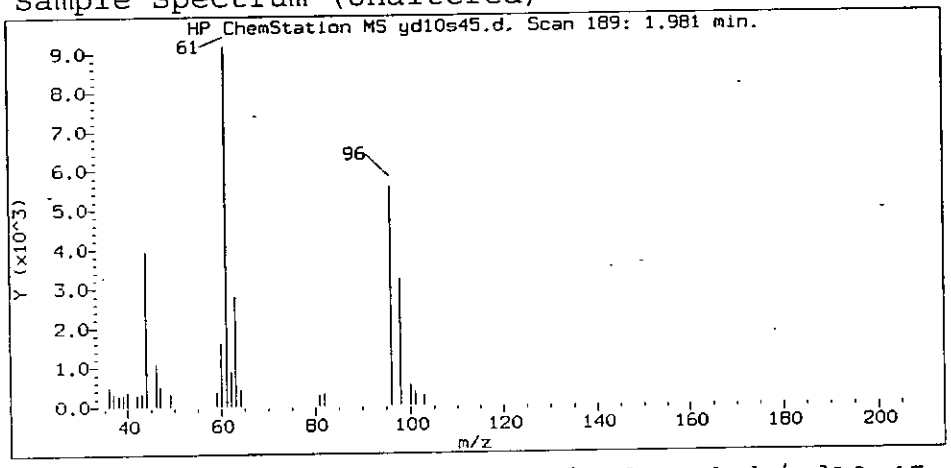
Reference Standard Spectrum for 1,1-Dichloroethene

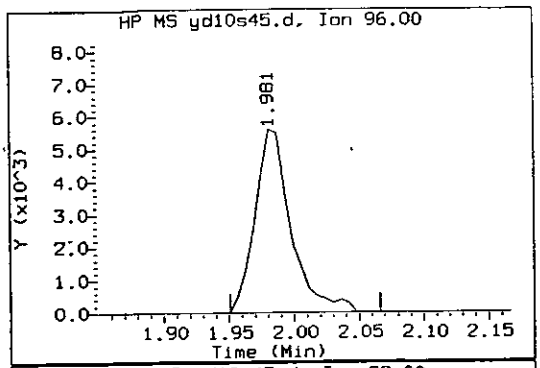


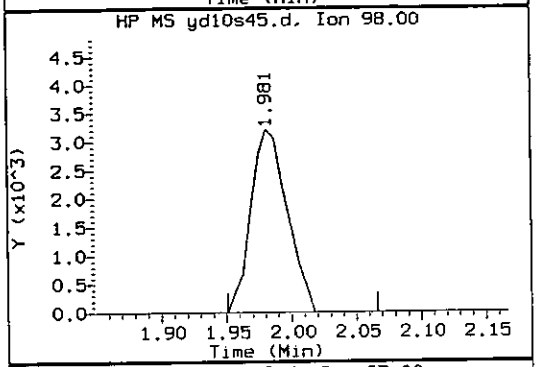
Sample Spectrum (Background Subtracted)

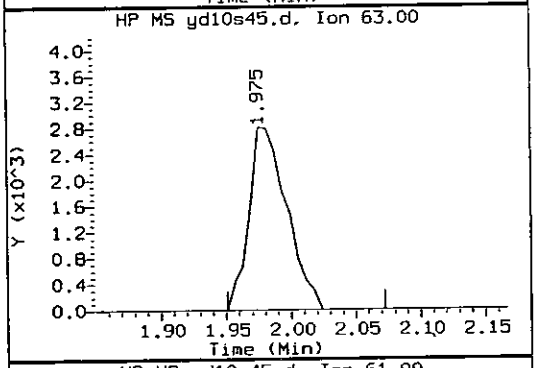


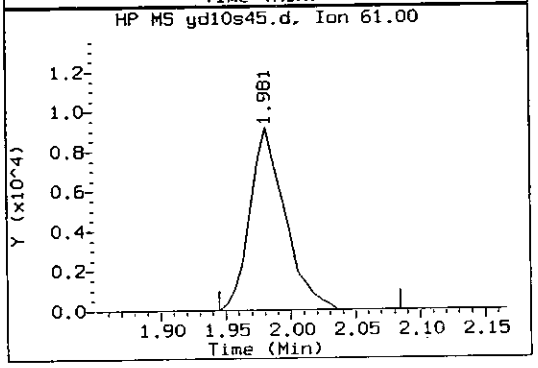
Sample Spectrum (Unaltered)











Data File: /chem2/HP09355.i/09dec10b.b/yd10s45.d
Injection date and time: 10-DEC-2009 22:18

Instrument ID: HP09355.i
Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 22:37 maz02012

Sample Name: PA19S

Lab Sample ID: 5859195

Compound Number	: 16
Compound Name	: 1,1-Dichloroethene
Scan Number	: 189
Retention Time (minutes)	: 1.981
Quant Ion	: 96.0
Area (flag)	: 10737
Concentration (ug/L)	: 2.5829

PTL84 8147

PA19D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859196

File: /chem2/HP09355.i/09dec10b.b/yd10s30.d
Sample: PA19D;5859196;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 17:05
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.334(0.012)	247	65	183031(-1)	250.00	
71) Fluorobenzene	4.542(0.006)	610	96	1083654(-8)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	797845(-7)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	478622(-15)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.885(0.002)	113	272929	49.418	99%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(-0.001)	102	65368	46.125	92%		77 - 113
93) Toluene-d8	(2)	6.185(0.000)	98	1028914	46.523	93%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.770(-0.001)	95	374645	44.951	90%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.975(-0.001)	96	29546	6.176	6.18			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)	3.739(0.000)	83	11020	1.147	1.15		J	0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 8148

PA19D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859196

File: /chem2/HP09355.i/09dec10b.b/yd10s30.d
Sample: PA19D;5859196;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 17:05
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PA19D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859196

File: /chem2/HP09355.i/09dec10b.b/yd10s30.d
Sample: PA19D;5859196;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 17:05
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: client

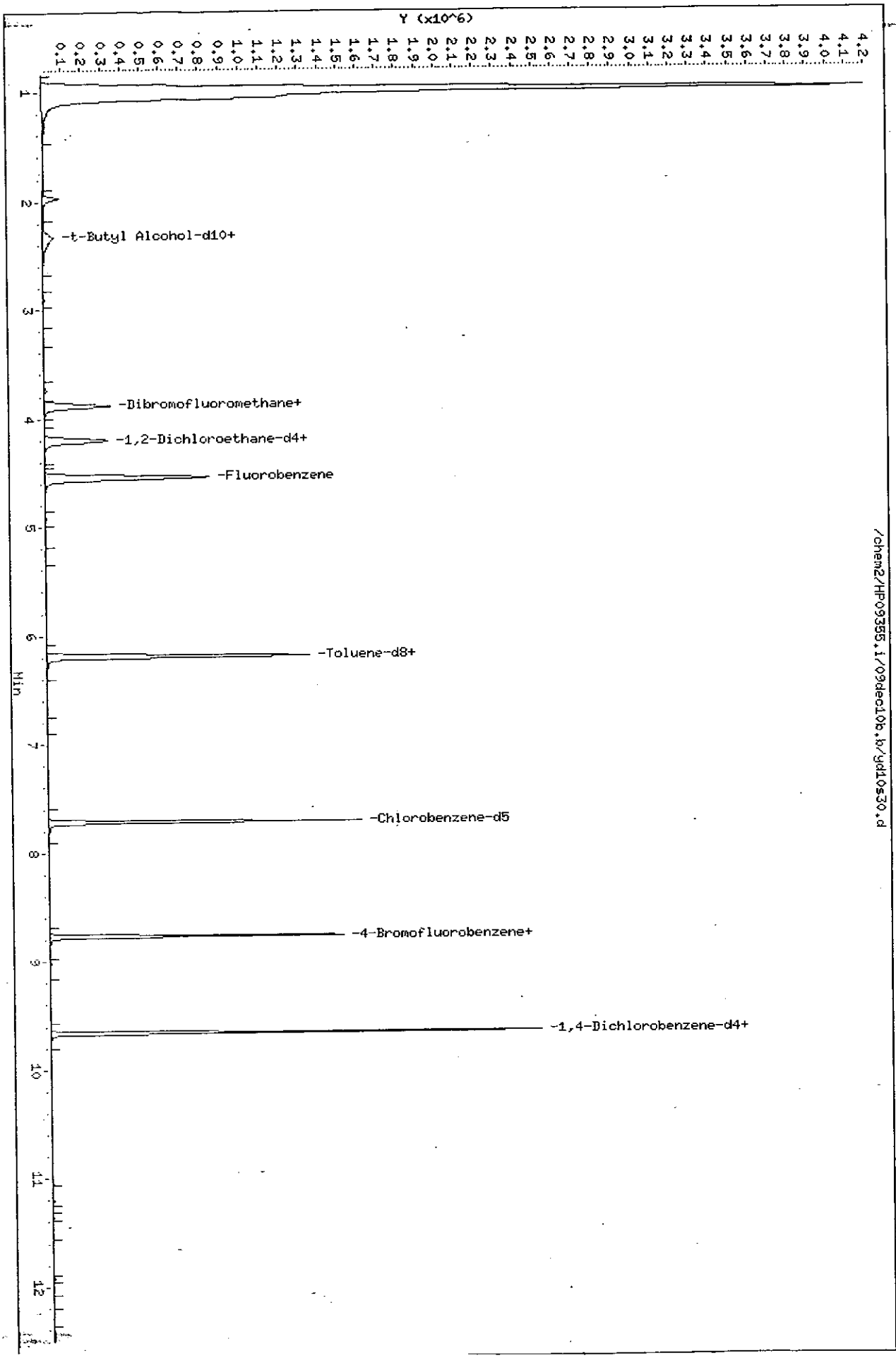
Analyst: U Moss Date: 12/10/09

Auditor: [signature] Date: 12-10-09

PTL84 8150

Data File: /chem2/HP09355.i/09dec10b.b/yd10s30.d
Date : 10-DEC-2009 17:05
Client ID: PA19D
Sample Info: PA19D;5859196;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



MS/MM
12/16/09

PTL04 0151

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s30.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:05 Analyst ID: NRR01826

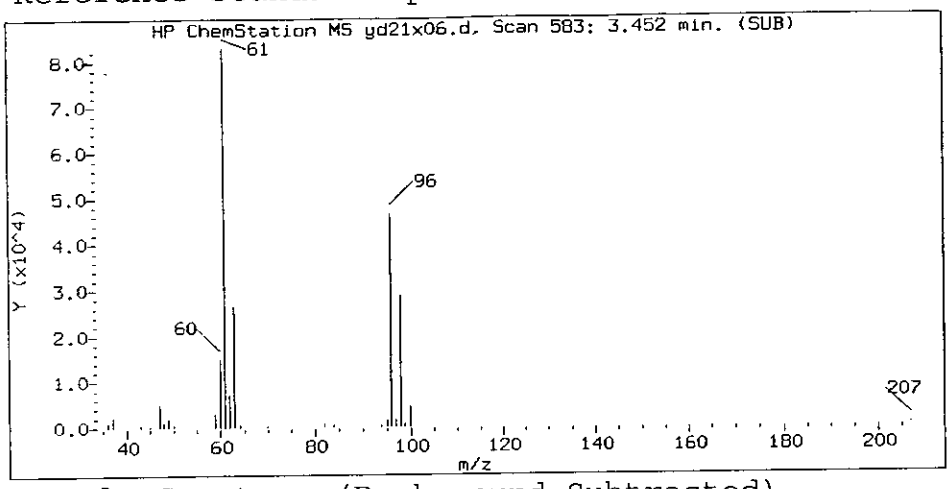
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 21:25 maz02012

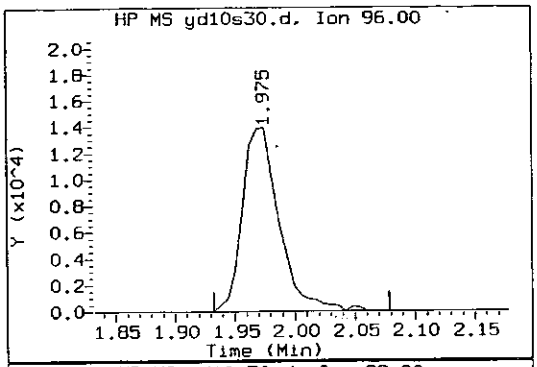
Sample Name: PA19D Lab Sample ID: 5859196

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.975	96	29546	6.176
28) *t-Butyl Alcohol-d10	(4)	2.334	65	183031	250.000
50) Chloroform	(1)	3.739	83	11020	1.147
71) *Fluorobenzene	(1)	4.542	96	1083654	50.000
106) *Chlorobenzene-d5	(2)	7.718	117	797845	50.000
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	478622	50.000
52) $Dibromofluoromethane	(1)	3.885	113	272929	49.418
62) $1,2-Dichloroethane-d4	(1)	4.208	102	65368	46.125
93) $Toluene-d8	(2)	6.185	98	1028914	46.523
119) $4-Bromofluorobenzene	(2)	8.770	95	374645	44.951

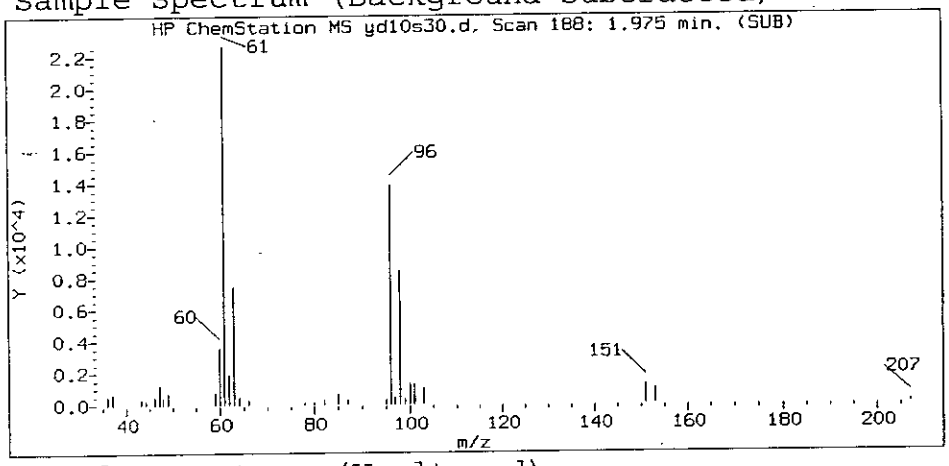
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

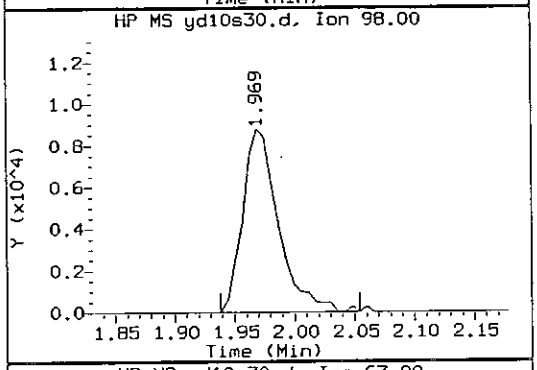
Reference Standard Spectrum for 1,1-Dichloroethene

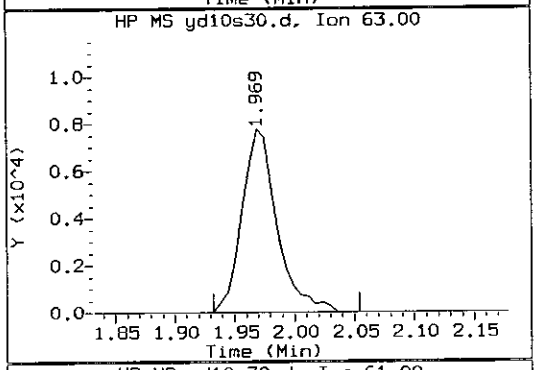




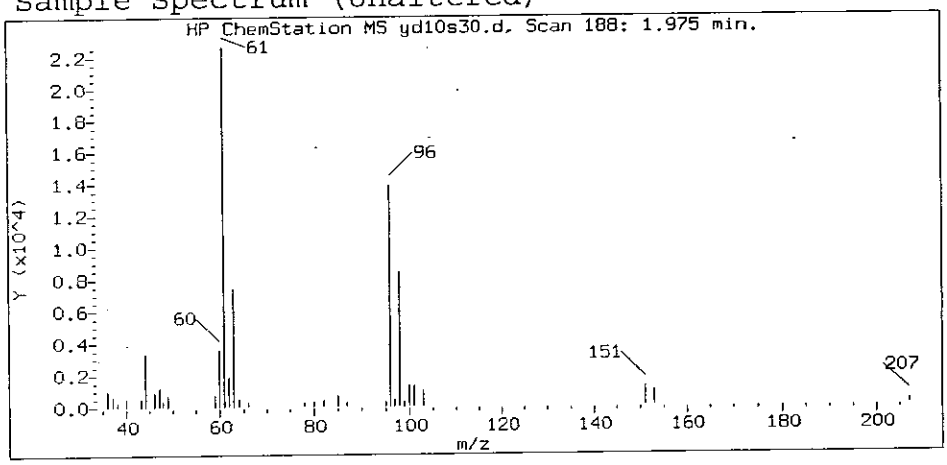
Sample Spectrum (Background Subtracted)

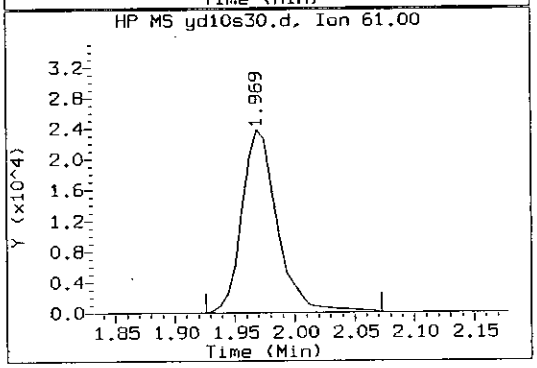






Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s30.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:05 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 21:25 maz02012

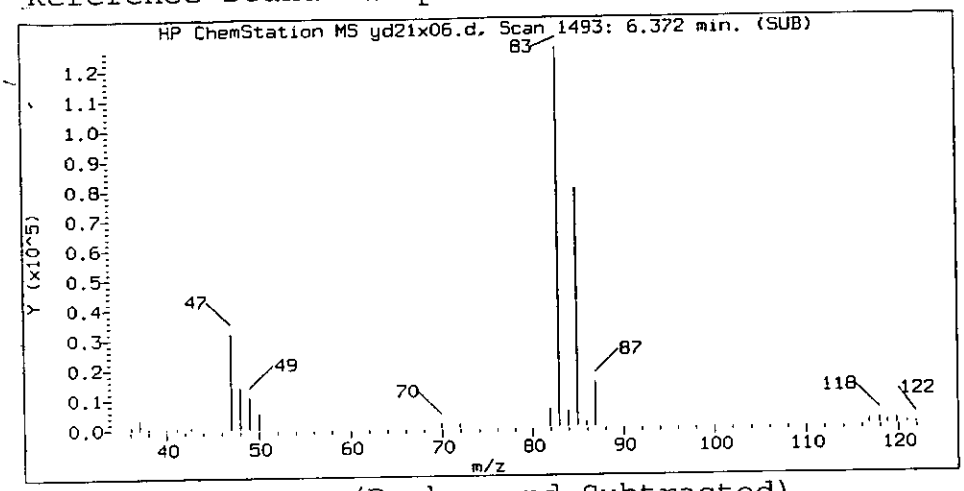
Sample Name: PA19D Lab Sample ID: 5859196

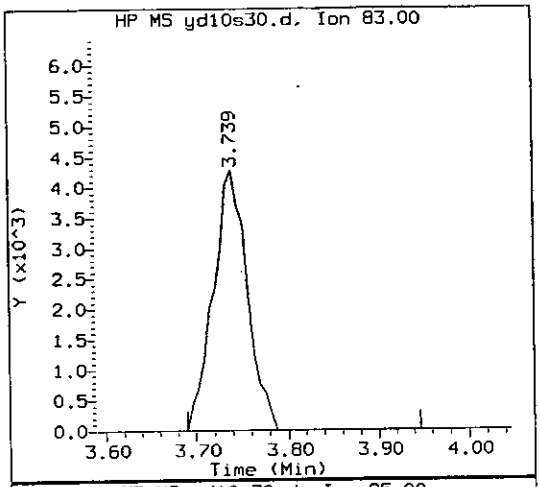
Compound Number	: 16
Compound Name	: 1,1-Dichloroethene
Scan Number	: 188
Retention Time (minutes)	: 1.975
Quant Ion	: 96.0
Area (flag)	: 29546
Concentration (ug/L)	: 6.1756

PTL04 0153

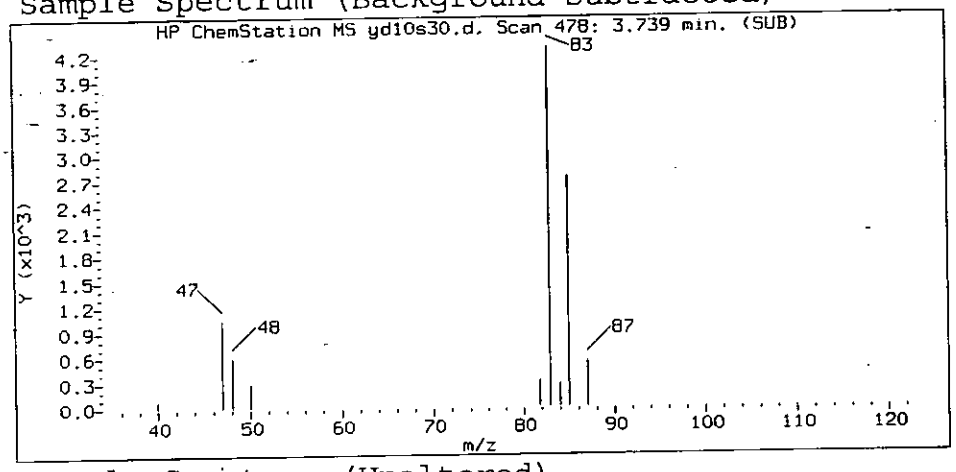
Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s30.d, generated on 12/10/2009 at 21:25

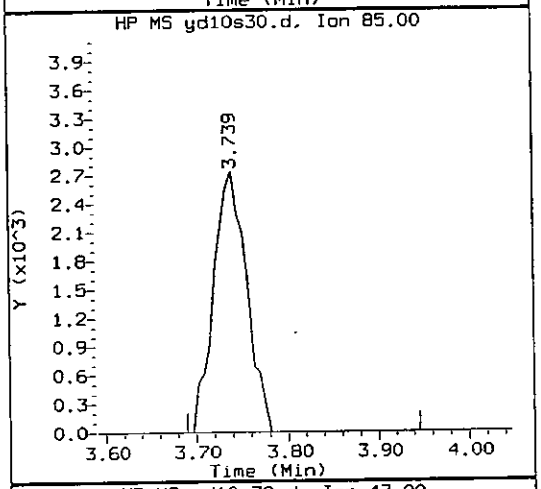
Reference Standard Spectrum for Chloroform



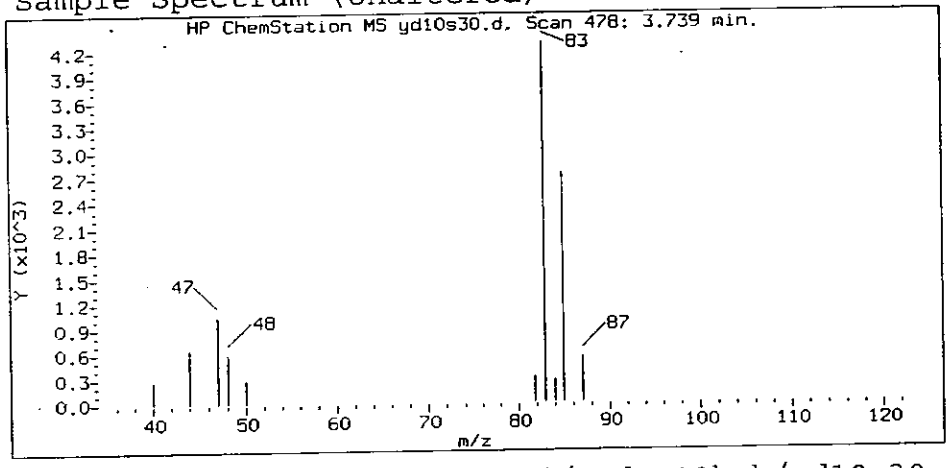


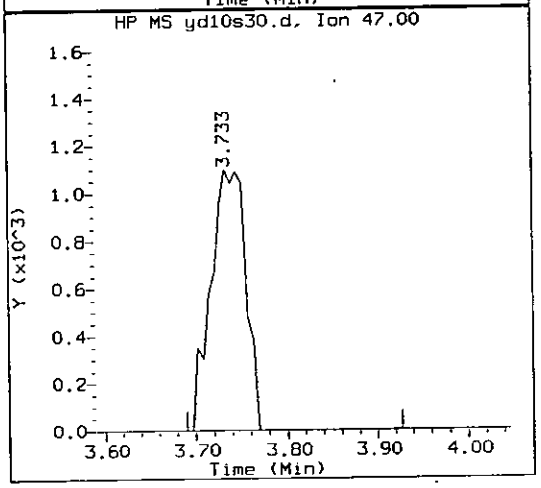
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s30.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:05 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 21:25 maz02012

Sample Name: PA19D Lab Sample ID: 5859196

Compound Number : 50
Compound Name : Chloroform
Scan Number : 478
Retention Time (minutes) : 3.739
Quant Ion : 83.0
Area (flag) : 11020
Concentration (ug/L) : 1.1475

PTL84 0154

PATD2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859199

File: /chem2/HP09355.i/09dec10b.b/yd10s46.d
Sample: PATD2;5859199;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 22:39
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	149822(-19)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	934851(-20)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	694339(-19)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	419809(-25)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.898(0.000)	113	245862	51.603	103%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.202(0.001)	102	59320	48.520	97%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	888363	46.156	92%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.770(-0.001)	95	313719	43.252	87%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.987(-0.003)	96	11400	2.762	2.76		J	0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PATD2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859199

File: /chem2/HP09355.i/09dec10b.b/yd10s46.d
Sample: PATD2;5859199;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 22:39
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PATD2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859199

File: /chem2/HP09355.i/09dec10b.b/yd10s46.d
Sample: PATD2;5859199;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 22:39
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: Date: 12/11/09

Auditor: Date: 12-18-09

PTL84 8157

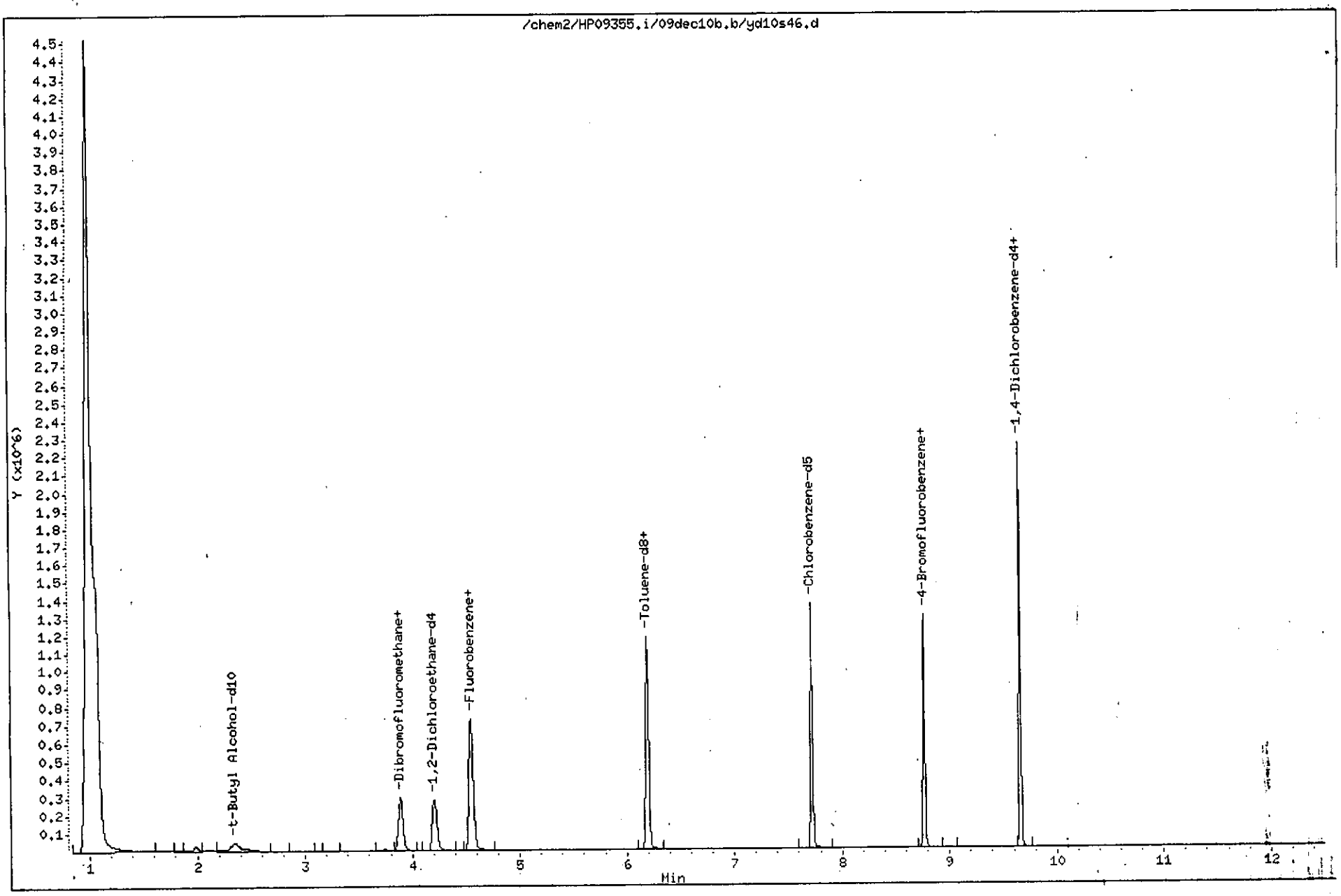
Data File: /chem2/HP09355.i/09dec10b.b/yd10s46.d
Date : 10-DEC-2009 22:39
Client ID: PATD2
Sample Info: PATD2;5859199;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18

HB996
12/11/09

PTEBA 8150



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s46.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 22:39 Analyst ID: NRR01826

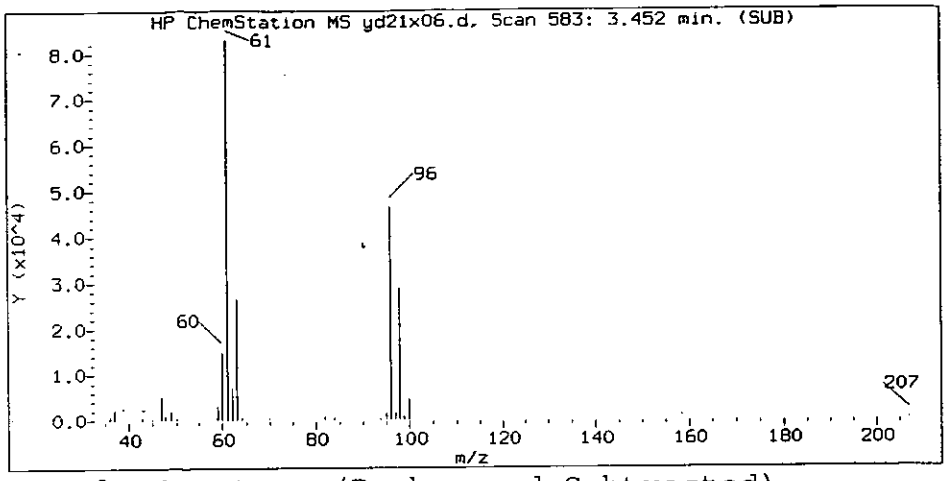
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 11-Dec-2009 02:26 hb01996

Sample Name: PATD2 Lab Sample ID: 5859199

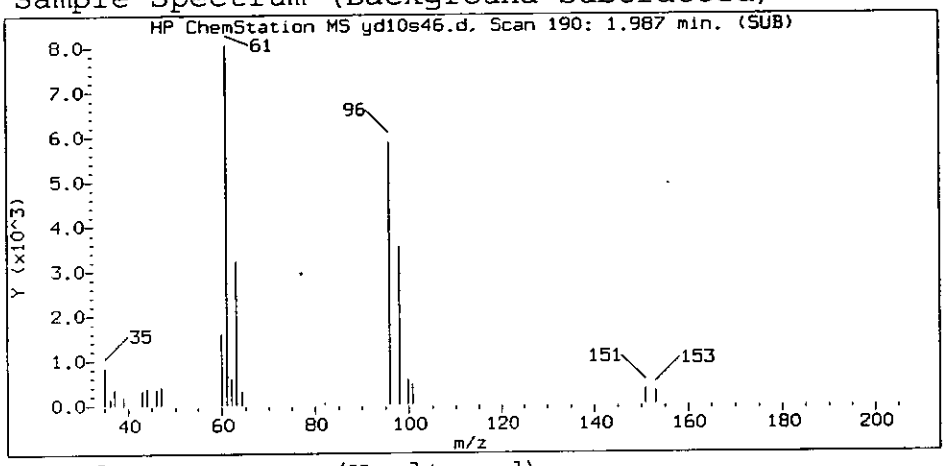
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.987	96	11400	2.762
28)*t-Butyl Alcohol-d10	(4)	2.346	65	149822	250.000
71)*Fluorobenzene	(1)	4.548	96	934851	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	694339	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	419809	50.000
52)$Dibromofluoromethane	(1)	3.898	113	245862	51.603
62)$1,2-Dichloroethane-d4	(1)	4.202	102	59320	48.520
93)$Toluene-d8	(2)	6.191	98	888363	46.156
119)$4-Bromofluorobenzene	(2)	8.770	95	313719	43.252

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

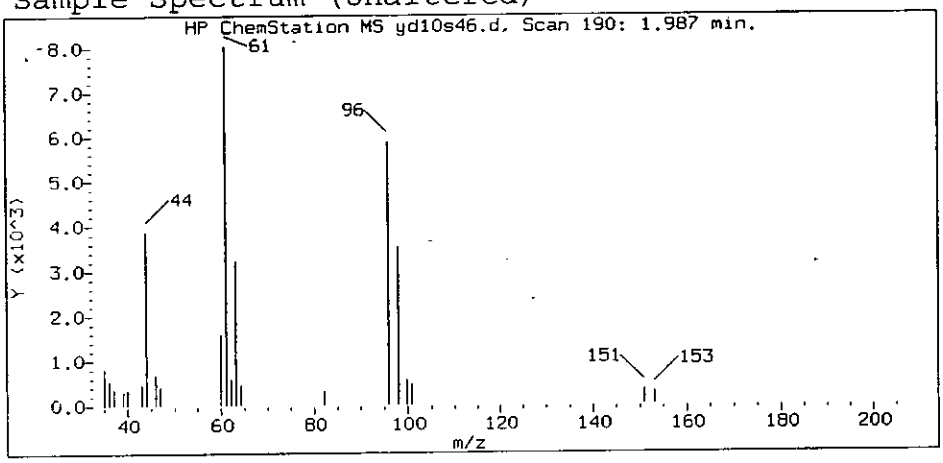
Reference Standard Spectrum for 1,1-Dichloroethene

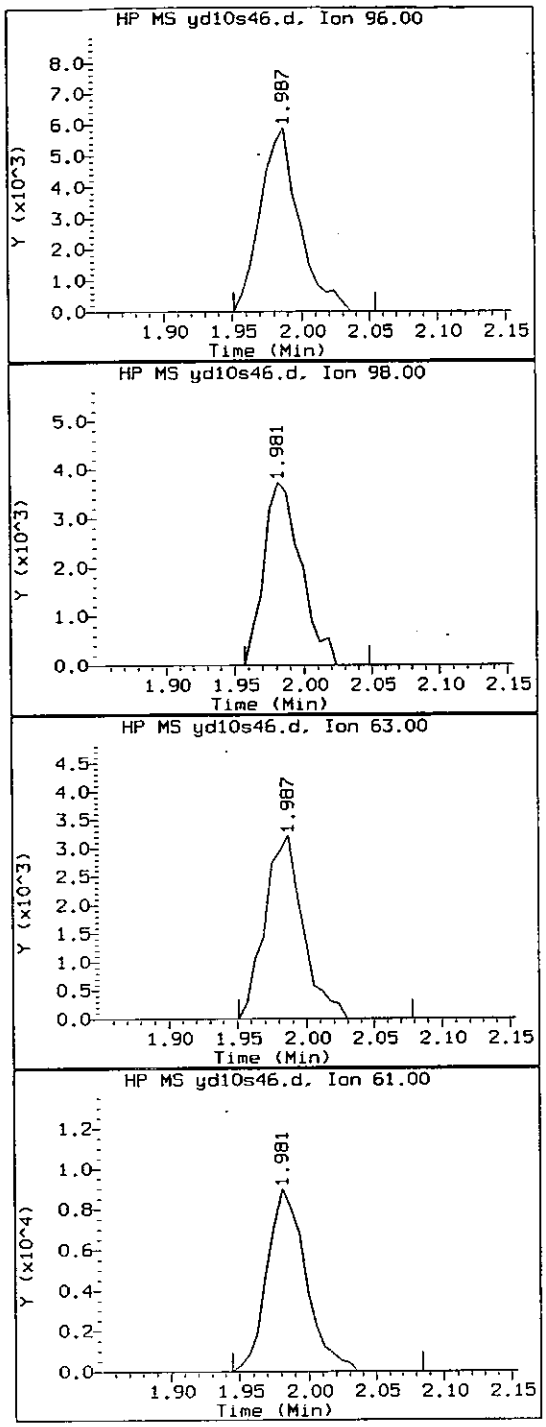


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s46.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 22:39 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 11-Dec-2009 02:26 hb01996

Sample Name: PATD2 Lab Sample ID: 5859199

Compound Number : 16
Compound Name : 1,1-Dichloroethene
Scan Number : 190
Retention Time (minutes): 1.987
Quant Ion : 96.0
Area (flag) : 11400
Concentration (ug/L) : 2.7621

PTL84 ~~P158~~

PA20S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859200

File: /chem2/HP09355.i/09dec10b.b/yd10s47.d
Sample: PA20S;5859200;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 23:00
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	161025(-13)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	929808(-21)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	677895(-21)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	408656(-27)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.891(0.001)	113	246248	51.964	104%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.214(-0.001)	102	59273	48.744	97%		77 - 113
93) Toluene-d8	(2)	6.185(0.000)	98	880082	46.835	94%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	304619	43.016	86%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.975(0.000)	96	18598	4.530	4.53		J	0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)				ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8161

PA20S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5859200

File: /chem2/HP09355.i/09dec10b.b/yd10s47.d
Sample: PA20S;5859200;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 23:00
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 8162

PA20S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859200

File: /chem2/HP09355.i/09dec10b.b/yd10s47.d
Sample: PA20S;5859200;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 23:00
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

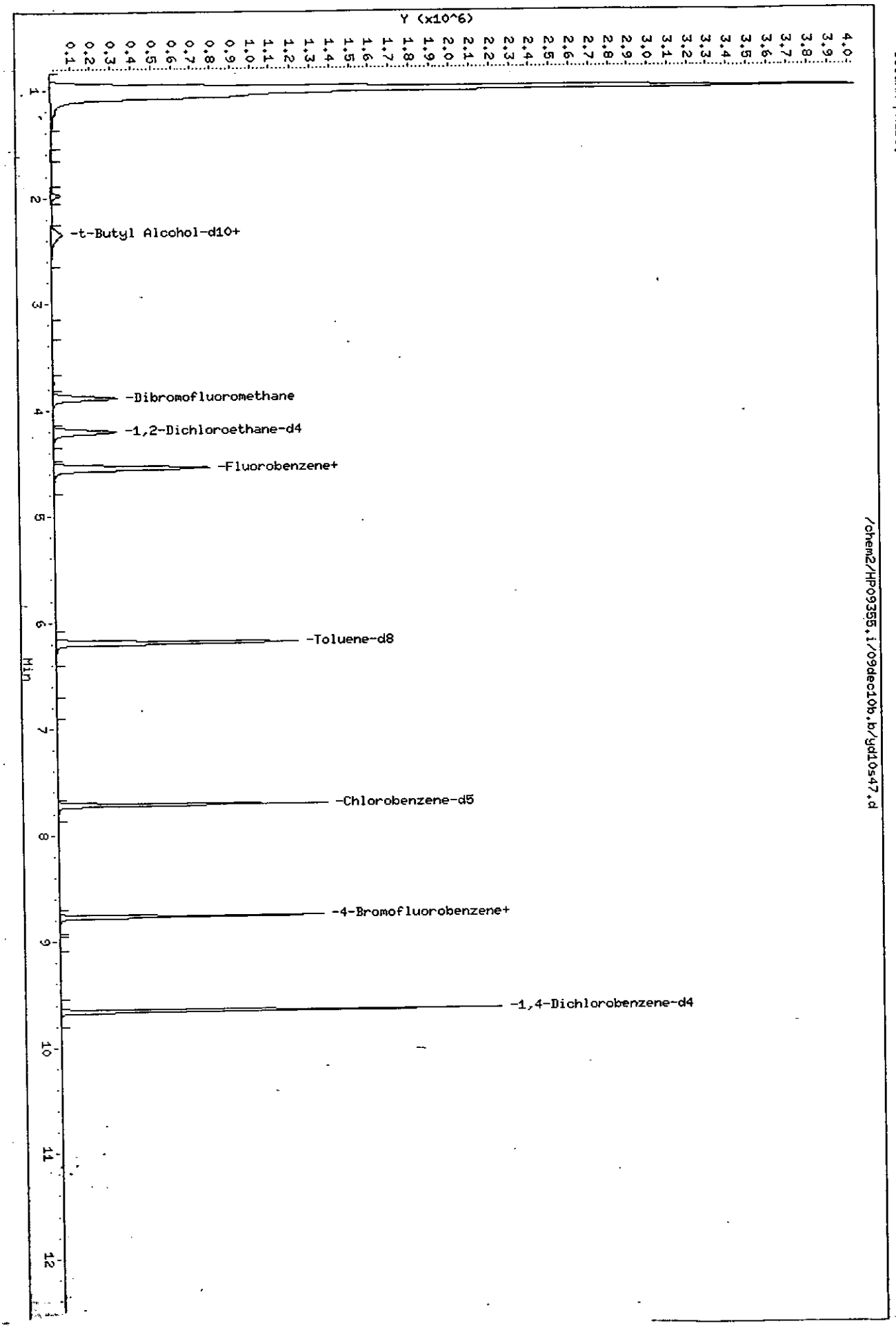
Analyst: [signature] Date: 12/11/09

Auditor: [signature] Date: 12-18-09

PTL84 8163

Data File: /chem2/HP09355.i/09dec10b.b/yd10s47.d
Date : 10-DEC-2009 23:00
Client ID: PA20S
Sample Info: PA20S;5859200;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



MBAS6
12/11/09

PTL84 P164
Page 1

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s47.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 23:00 Analyst ID: NRR01826

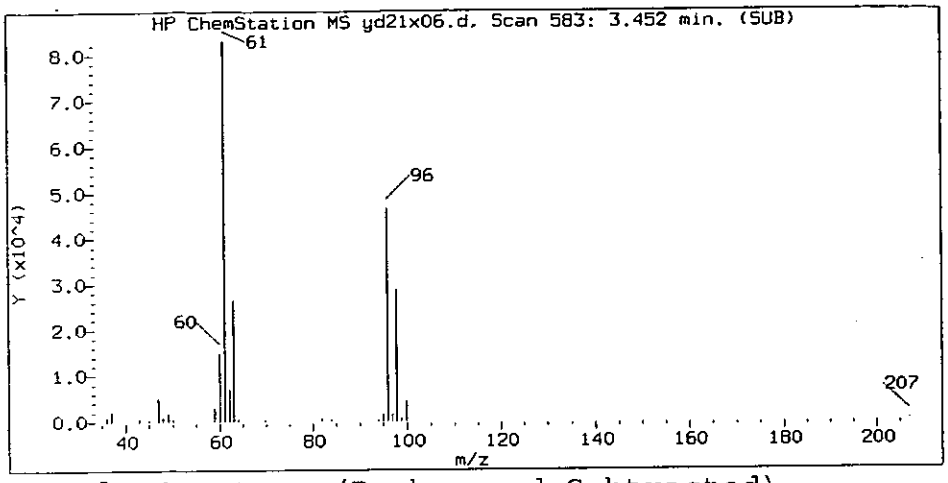
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 11-Dec-2009 02:27 hb01996

Sample Name: PA20S Lab Sample ID: 5859200

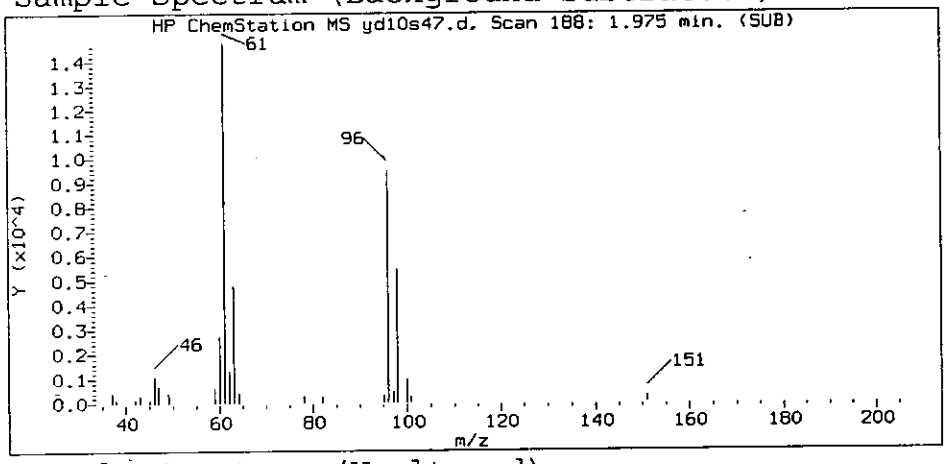
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.975	96	18598	4.530
28) *t-Butyl Alcohol-d10	(4)	2.346	65	161025	250.000
71) *Fluorobenzene	(1)	4.548	96	929808	50.000
106) *Chlorobenzene-d5	(2)	7.718	117	677895	50.000
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	408656	50.000
52) $Dibromofluoromethane	(1)	3.891	113	246248	51.964
62) $1,2-Dichloroethane-d4	(1)	4.214	102	59273	48.744
93) $Toluene-d8	(2)	6.185	98	880082	46.835
119) $4-Bromofluorobenzene	(2)	8.764	95	304619	43.016

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

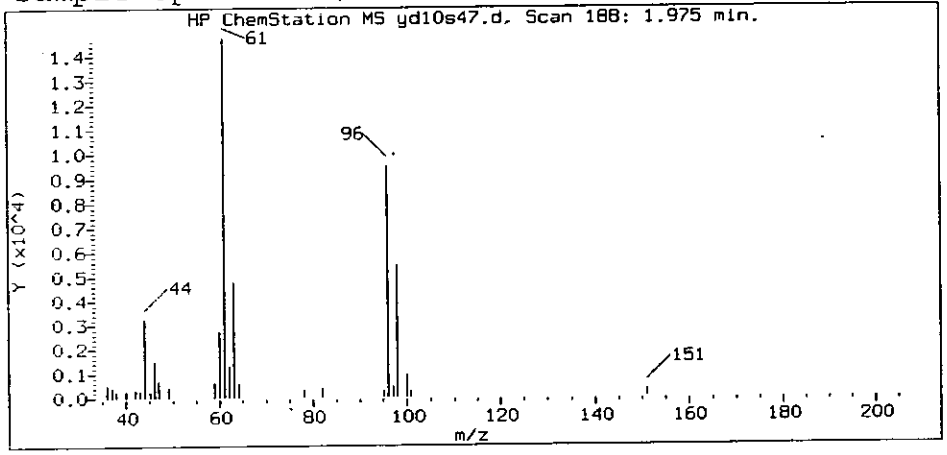
Reference Standard Spectrum for 1,1-Dichloroethene

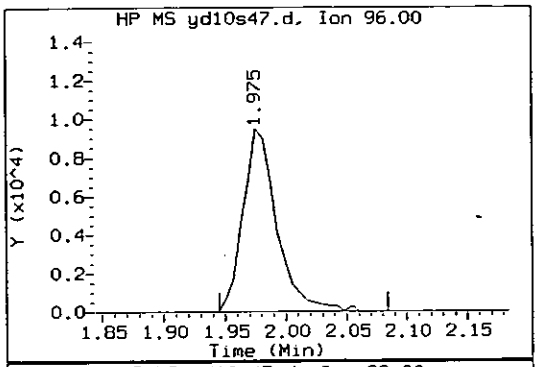


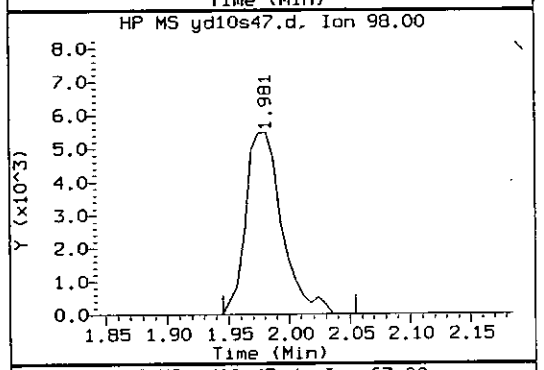
Sample Spectrum (Background Subtracted)

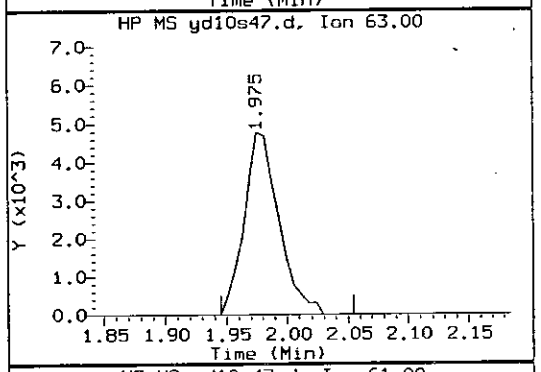


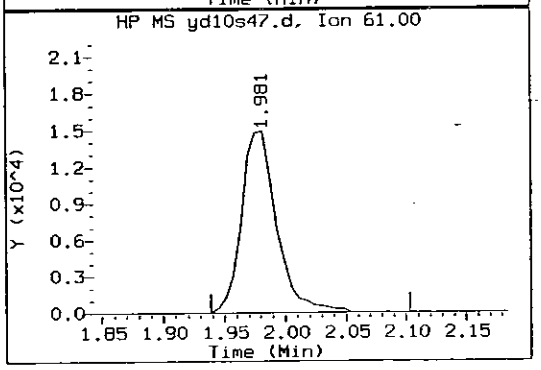
Sample Spectrum (Unaltered)











Data File: /chem2/HP09355.i/09dec10b.b/yd10s47.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 23:00 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 11-Dec-2009 02:27 hb01996

Sample Name: PA20S Lab Sample ID: 5859200

Compound Number : 16
Compound Name : 1,1-Dichloroethene
Scan Number : 188
Retention Time (minutes): 1.975
Quant Ion : 96.0
Area (flag) : 18598
Concentration (ug/L) : 4.5305

PTL04 0166

PA20D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859201

File: /chem2/HP09355.i/09dec10b.b/yd10s48.d
Sample: PA20D;5859201;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 23:21
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.352(-0.006)	250	65	137058(-26)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	921328(-22)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	678519(-21)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	407459(-28)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.891(0.001)	113	245409	52.264	105%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	58329	48.409	97%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	876880	46.622	93%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	305712	43.131	86%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	88928	21.862	21.86			0.80	5.00
17) Acetone	(1)				ND	ND			6.00	20.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
40) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
41) 2-Butanone	(1)				ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
47) Bromochloromethane	(1)				ND	ND			1.00	5.00
50) Chloroform	(1)	3.739(0.001)	83	7080	0.867	0.87		J	0.80	5.00
53) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
57) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
63) Benzene	(1)				ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
74) Trichloroethene	(1)				ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8167

PA20D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859201

File: /chem2/HP09355.i/09dec10b.b/yd10s48.d
Sample: PA20D;5859201;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 23:21
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)					ND	ND			1.00	5.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL94 8168

PA20D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859201

File: /chem2/HP09355.i/09dec10b.b/yd10s48.d
Sample: PA20D;5859201;1;0;;;;;yd10b06;;;
Injected At:10-DEC-2009 23:21
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826.
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: Umwr Date: 12/12/09

Auditor: [signature] Date: 12-18-09

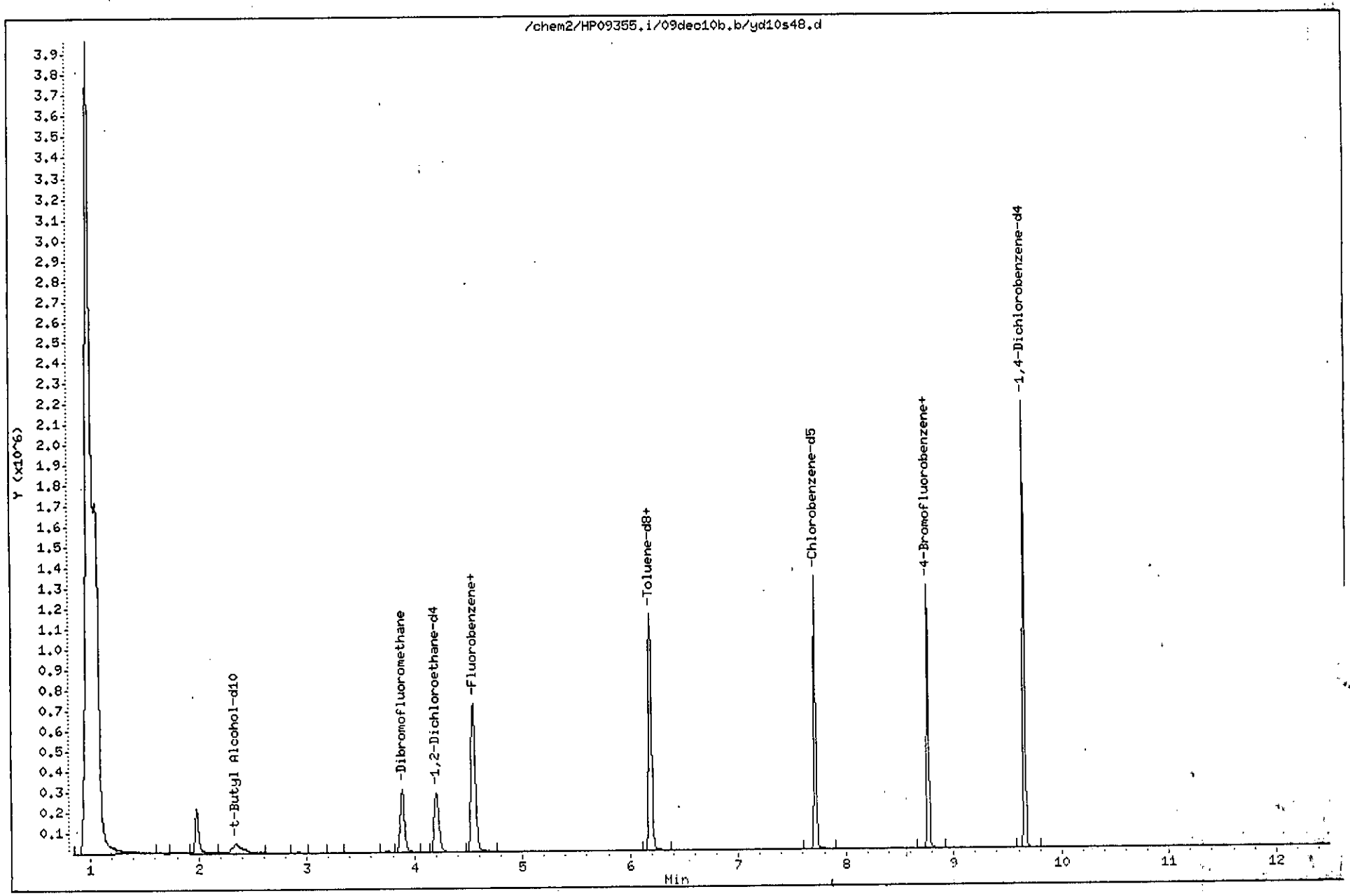
PTL04 8169

HBA96 12/11/09

Data File: /chem2/HP09355.i/09dec10b.b/yd10s48.d
Date : 10-DEC-2009 23:21
Client ID: PA20D
Sample Info: PA20D;5859201;1;0;;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s48.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 23:21 Analyst ID: NRR01826

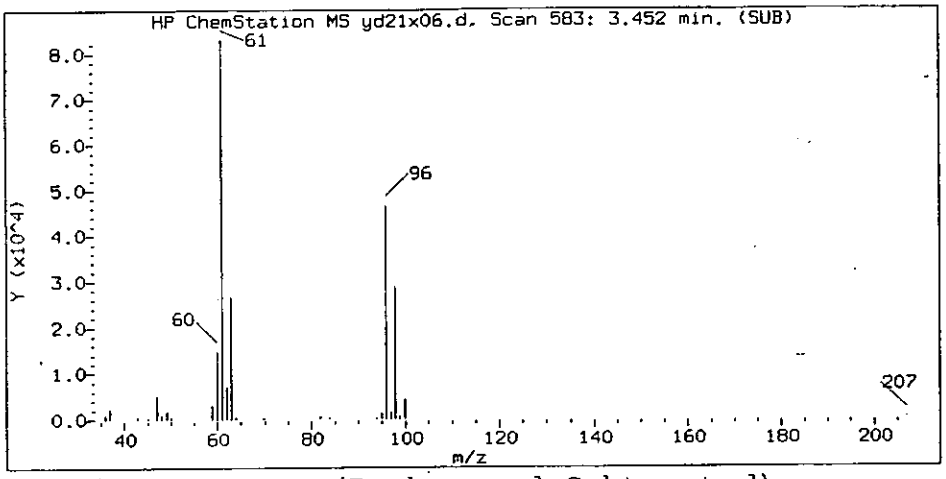
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 11-Dec-2009 02:27 hb01996

Sample Name: PA20D Lab Sample ID: 5859201

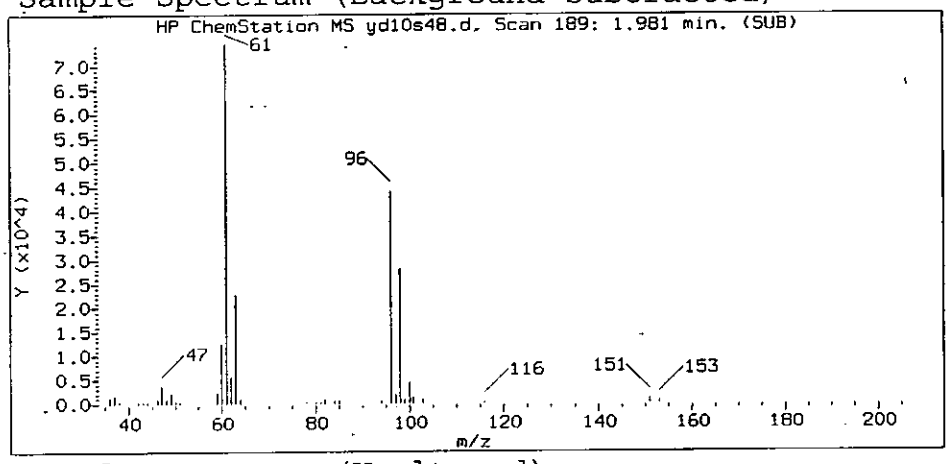
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
16) 1,1-Dichloroethene	(1)	1.981	96	88928	21.862
28)*t-Butyl Alcohol-d10	(4)	2.352	65	137058	250.000
50) Chloroform	(1)	3.739	83	7080	0.867
71)*Fluorobenzene	(1)	4.548	96	921328	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	678519	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	407459	50.000
52)$Dibromofluoromethane	(1)	3.891	113	245409	52.264
62)$1,2-Dichloroethane-d4	(1)	4.208	102	58329	48.409
93)$Toluene-d8	(2)	6.191	98	876880	46.622
119)$4-Bromofluorobenzene	(2)	8.764	95	305712	43.131

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

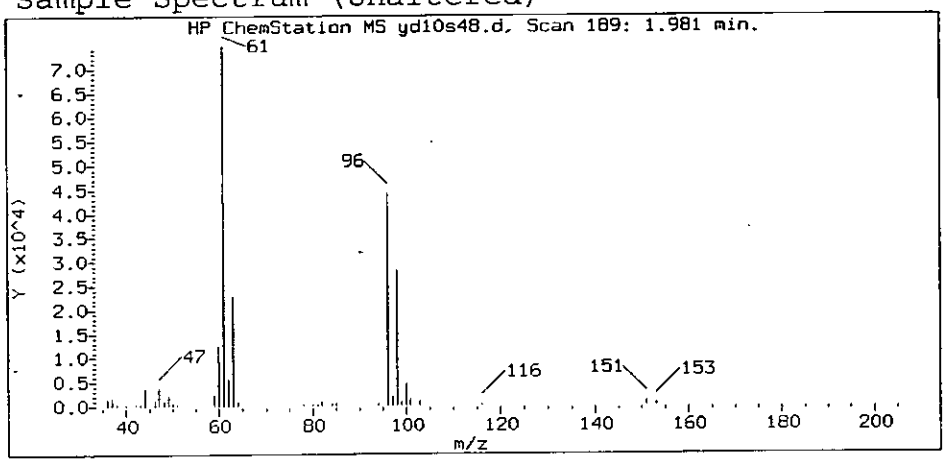
Reference Standard Spectrum for 1,1-Dichloroethene

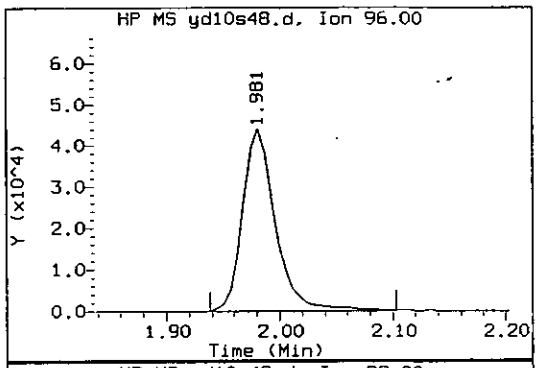


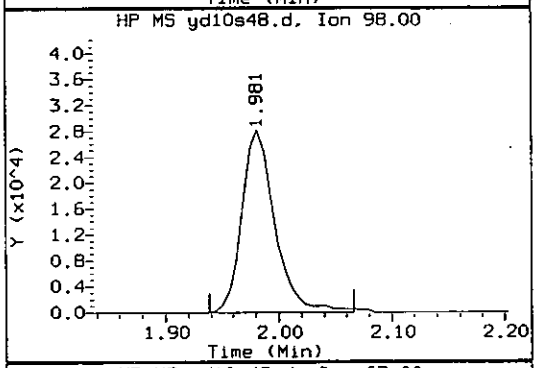
Sample Spectrum (Background Subtracted)

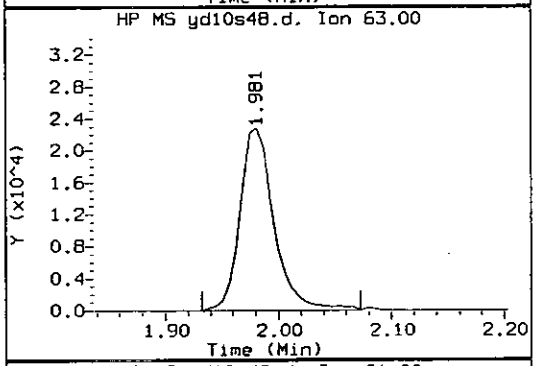


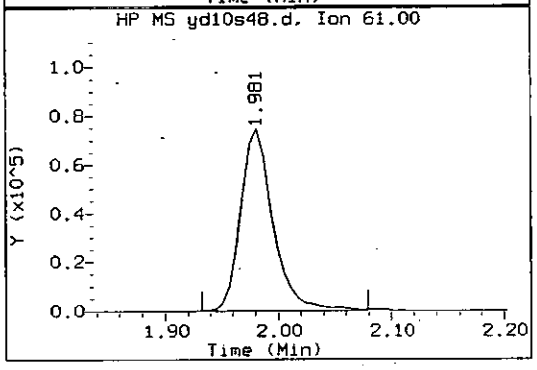
Sample Spectrum (Unaltered)











Data File: /chem2/HP09355.i/09dec10b.b/yd10s48.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 23:21 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 11-Dec-2009 02:27 hb01996

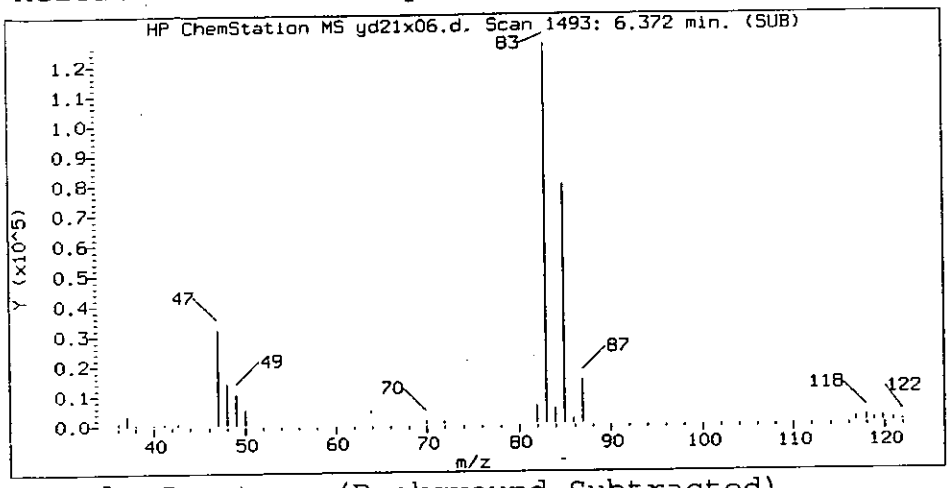
Sample Name: PA20D Lab Sample ID: 5859201

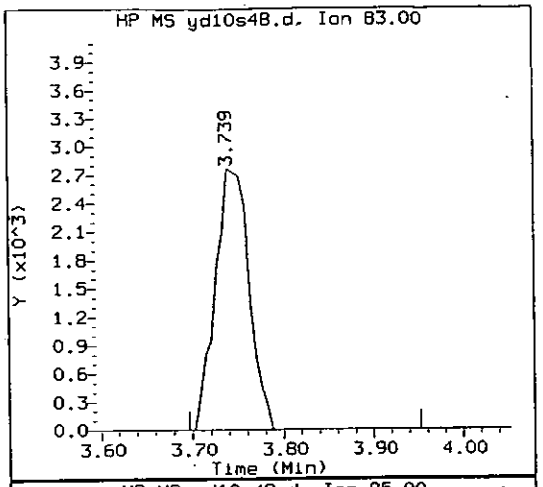
Compound Number : 16
Compound Name : 1,1-Dichloroethene
Scan Number : 189
Retention Time (minutes): 1.981
Quant Ion : 96.0
Area (flag) : 88928
Concentration (ug/L) : 21.8622

PTL04 8122

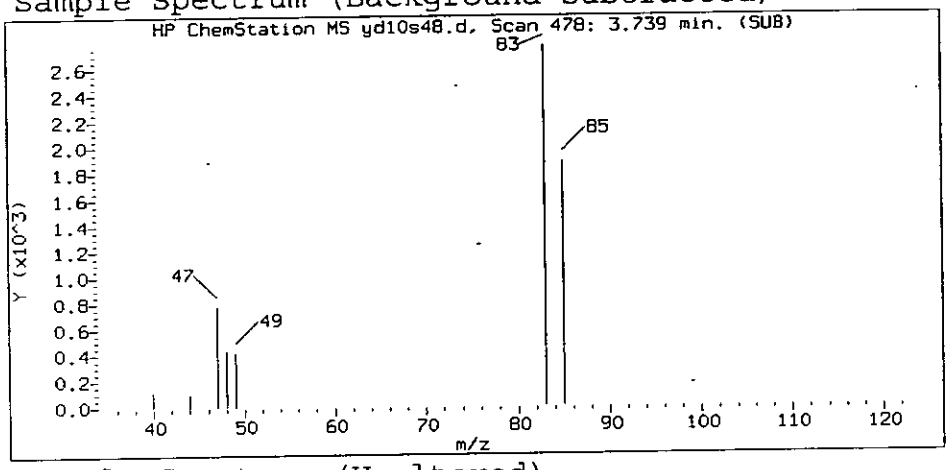
Hit Data Report for data file /chem2/HP09355.i/09dec10b.b/yd10s48.d, generated on 12/11/2009 at 02:27

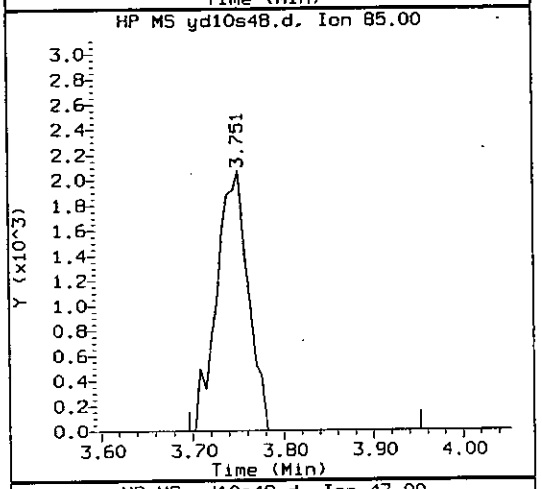
Reference Standard Spectrum for Chloroform



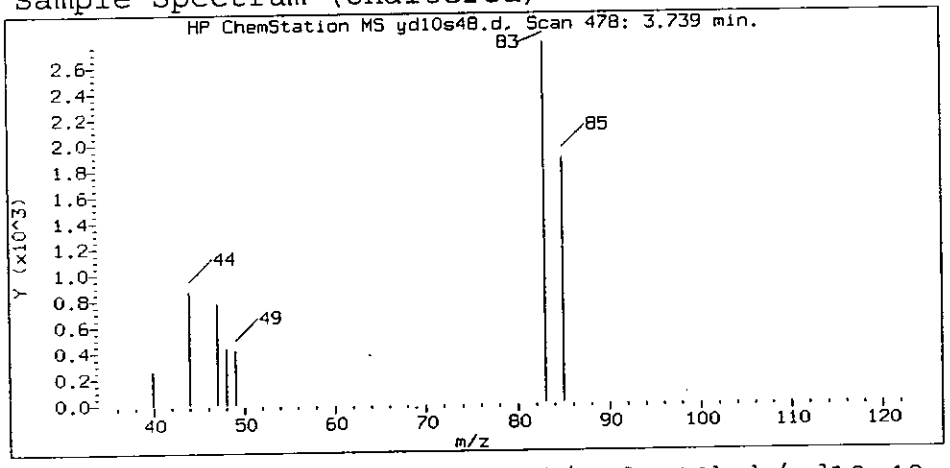


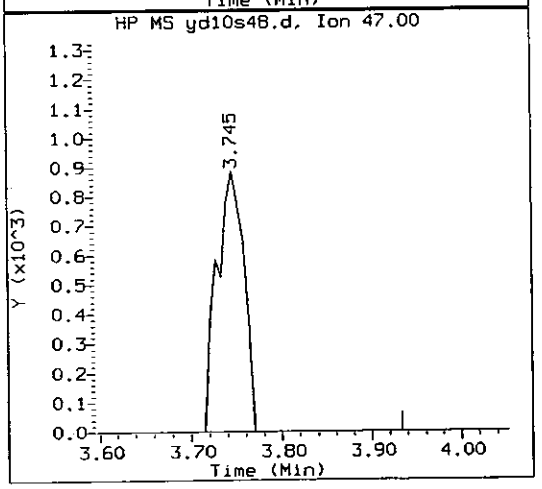
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP09355.i/09dec10b.b/yd10s48.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 23:21 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 11-Dec-2009 02:27 hb01996

Sample Name: PA20D Lab Sample ID: 5859201

Compound Number	: 50
Compound Name	: Chloroform
Scan Number	: 478
Retention Time (minutes)	: 3.739
Quant Ion	: 83.0
Area (flag)	: 7080
Concentration (ug/L)	: 0.8671

PTL84 8173

Standards Data

PTL84 8174

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 Calibration Date(s): 10/19/09 10/20/09

Heated Purge: (Y/N) Y Calibration Times: 23:36 02:15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

LAB FILE ID: RRF 4 = yc19i06.d RRF 10= yc19i05.d RRF 20= yc19i04.d
RRF 50= yc19i03.d RRF100= yc19i07.d RRF300= yc19i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Dichlorodifluoromethane	0.3975	0.3969	0.3582	0.4157	0.3796	0.3739		0.3869	5	AVG	
Chloromethane	#0.4151	0.4015	0.3577	0.4078	0.3739	0.3818		0.3896	6	AVG	#
Vinyl Chloride	*0.3783	0.3783	0.3415	0.3968	0.3675	0.3582		0.3701	5	AVG	*
1,3-Butadiene	0.3382	0.2853	0.2528	0.2581	0.2554	0.2374		0.2712	13	AVG	
Bromomethane	0.2425	0.2431	0.2186	0.2485	0.2264	0.1988		0.2296	8	AVG	
Chloroethane	0.2087	0.2125	0.1889	0.2118	0.1956	0.1876		0.2008	6	AVG	
Dichlorofluoromethane	0.3224	0.3056	0.3074	0.3037	0.2945	0.2801		0.3023	5	AVG	
Trichlorofluoromethane	0.4422	0.4460	0.3967	0.4513	0.4174	0.4066		0.4267	5	AVG	
n-Pentane	0.7229	0.6139	0.6173	0.6588	0.6302	0.6007		0.6406	7	AVG	
Ethyl Ether	0.2510	0.2253	0.2287	0.2364	0.2205	0.2126		0.2291	6	AVG	
Freon 123a	0.3224	0.3056	0.3074	0.3037	0.2903	0.2782		0.3013	5	AVG	
Acrolein	1.7515	2.1522	1.7851	2.0481	1.9494	2.1674		1.9756	9	AVG	
1,1-Dichloroethene	*0.2352	0.2308	0.2117	0.2271	0.2171	0.2026		0.2208	6	AVG	*
Freon 113	0.2656	0.2461	0.2403	0.2545	0.2409	0.2318		0.2465	5	AVG	
Acetone	0.0377	0.0384	0.0329	0.0374	0.0338	0.0310		0.0352	9	AVG	
Methyl Iodide	0.4959	0.4741	0.4668	0.4924	0.4644	0.4381		0.4719	4	AVG	
2-Propanol	0.6957	0.9686	0.8185	0.9054	0.7843	0.6995		0.8120	14	AVG	
Carbon Disulfide	0.7432	0.7100	0.6833	0.7408	0.7158	0.6800		0.7122	4	AVG	
Allyl Chloride	0.4507	0.4125	0.4399	0.4339	0.4278	0.3987		0.4273	4	AVG	
Methyl Acetate	0.3452	0.2642	0.2680	0.2680	0.2899	0.2690		0.2841	11	AVG	
Methylene Chloride	0.2733	0.2555	0.2498	0.2733	0.2551	0.2449		0.2587	5	AVG	
t-Butyl Alcohol	1.1814	1.3312	1.2314	1.3908	1.3055	1.2839		1.2874	6	AVG	
Acrylonitrile	0.1348	0.1490	0.1274	0.1486	0.1332	0.1306		0.1373	7	AVG	
trans-1,2-Dichloroethene	0.2579	0.2555	0.2430	0.2577	0.2449	0.2398		0.2498	3	AVG	
Methyl Tertiary Butyl Ether	0.8891	0.8545	0.8703	0.9331	0.8570	0.8427		0.8744	4	AVG	
n-Hexane	0.4137	0.3829	0.3832	0.4077	0.3868	0.4126		0.3978	4	AVG	
1,2-Dichloroethene (total)	0.2671	0.2631	0.2543	0.2711	0.2549	0.2518		0.2604	3	AVG	
1,1-Dichloroethane	#0.4769	0.4610	0.4576	0.4862	0.4536	0.4432		0.4631	3	AVG	#
di-Isopropyl Ether	0.9541	0.9239	0.9134	0.9597	0.8882	0.8732		0.9187	4	AVG	
2-Chloro-1,3-Butadiene	0.4221	0.4083	0.4025	0.4314	0.4165	0.4057		0.4144	3	AVG	
Ethyl t-Butyl Ether	0.8924	0.8662	0.8804	0.9392	0.8688	0.8603		0.8845	3	AVG	
cis-1,2-Dichloroethene	0.2763	0.2706	0.2656	0.2844	0.2648	0.2638		0.2709	3	AVG	
2-Butanone	0.1808	0.2055	0.1695	0.1997	0.1794	0.1777		0.1854	8	AVG	
2,2-Dichloropropane	0.4050	0.3849	0.3781	0.4121	0.3929	0.3834		0.3927	3	AVG	
Propionitrile	1.3489	1.4223	1.4446	1.5162	1.4449	1.6014		1.4631	6	AVG	
Methacrylonitrile	0.1374	0.1356	0.1377	0.1484	0.1407	0.1429		0.1404	3	AVG	
Bromochloromethane	0.1421	0.1366	0.1463	0.1506	0.1464	0.1442		0.1444	3	AVG	
Tetrahydrofuran	1.0536	1.3631	1.1394	1.3550	1.2862	1.5118		1.2848	13	AVG	
Chloroform	*0.4608	0.4335	0.4380	0.4616	0.4365	0.4282		0.4431	3	AVG	*
1,1,1-Trichloroethane	0.5369	0.4555	0.4471	0.4468	0.4301	0.4212		0.4563	9	AVG	
Cyclohexane	0.5195	0.4766	0.4701	0.4977	0.4688	0.4803		0.4855	4	AVG	
Cyclohexane(mz 84)	0.4216	0.3932	0.3931	0.4161	0.3958	0.4039		0.4039	3	AVG	
Cyclohexane(mz 69)	0.1469	0.1400	0.1385	0.1490	0.1404	0.1440		0.1431	3	AVG	
1,1-Dichloropropene	0.3648	0.3521	0.3427	0.3637	0.3477	0.3406		0.3519	3	AVG	
Carbon Tetrachloride	0.3307	0.3286	0.3214	0.3544	0.3406	0.3431		0.3365	4	AVG	
Isobutyl Alcohol	0.3759	0.4108	0.3777	0.4039	0.3600	0.3795		0.3846	5	AVG	
Benzene	1.0833	1.0442	1.0153	1.0809	1.0242	1.0208		1.0448	3	AVG	
1,2-Dichloroethane	0.3979	0.3857	0.3836	0.4018	0.3800	0.3660		0.3858	3	AVG	
1,2-Dichloroethane(mz 98)	0.0293	0.0300	0.0323	0.0349	0.0332	0.0334		0.0322	7	AVG	
t-Amyl Methyl Ether	0.8305	0.8003	0.8199	0.8806	0.8229	0.8387		0.8321	3	AVG	
n-Heptane	0.5128	0.4344	0.4607	0.4649	0.4431	0.4823		0.4664	6	AVG	
n-Butanol	0.2879	0.3394	0.3170	0.3633	0.3134	0.3203		0.3235	8	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL84 0175

FORM VI VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 Calibration Date(s): 10/19/09 10/20/09

Heated Purge: (Y/N) Y Calibration Times: 23:36 02:15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

LAB FILE ID: RRF 4 = yc19i06.d RRF 10= yc19i05.d RRF 20= yc19i04.d
RRF 50= yc19i03.d RRF100= yc19i07.d RRF300= yc19i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Trichloroethene	0.2729	0.2676	0.2600	0.2749	0.2659	0.2647		0.2677	2	AVG	
1,2-Dichloropropane	*0.2745	0.2732	0.2686	0.2880	0.2744	0.2731		0.2753	2	AVG	*
Methylcyclohexane(mz98)	0.2332	0.2032	0.2251	0.2288	0.2297	0.2415		0.2269	6	AVG	
Methylcyclohexane	0.4874	0.4383	0.4784	0.4954	0.4952	0.5215		0.4860	6	AVG	
Methyl Methacrylate	0.2065	0.2040	0.2124	0.2412	0.2321	0.2358		0.2220	7	AVG	
Dibromomethane	0.1675	0.1651	0.1671	0.1806	0.1717	0.1694		0.1702	3	AVG	
1,4-Dioxane	0.1120	0.1164	0.1107	0.1435	0.1011	0.0850		0.1115	17	2NDDEG	
Bromodichloromethane	0.3004	0.3008	0.3072	0.3455	0.3341	0.3410		0.3215	7	AVG	
2-Nitropropane	0.0651	0.0788	0.0703	0.0922	0.0879	0.0962		0.0817	15	AVG	
2-Chloroethyl Vinyl Ether	0.1761	0.1809	0.1865	0.1984	0.2042	0.2040		0.1917	6	AVG	
cis-1,3-Dichloropropene	0.3852	0.3921	0.4073	0.4459	0.4300	0.4354		0.4160	6	AVG	
4-Methyl-2-Pentanone	0.3561	0.4263	0.3648	0.4383	0.4071	0.4013		0.3990	8	AVG	
Toluene	*0.8794	0.8732	0.8568	0.9136	0.8904	0.8932		0.8844	2	AVG	*
trans-1,3-Dichloropropene	0.4735	0.4849	0.5080	0.5679	0.5499	0.5584		0.5238	8	AVG	
Ethyl Methacrylate	0.4398	0.4678	0.5034	0.5720	0.5576	0.5664		0.5178	11	AVG	
1,1,2-Trichloroethane	0.3166	0.3095	0.3098	0.3335	0.3177	0.3173		0.3174	3	AVG	
Tetrachloroethene	0.4630	0.4449	0.4352	0.4520	0.4352	0.4388		0.4448	2	AVG	
1,3-Dichloropropane	0.5526	0.5461	0.5500	0.5832	0.5523	0.5475		0.5553	3	AVG	
2-Hexanone	0.3291	0.4099	0.3483	0.4206	0.3899	0.3814		0.3799	9	AVG	
Dibromochloromethane	0.2914	0.3062	0.3279	0.3779	0.3708	0.3864		0.3434	12	AVG	
1,2-Dibromoethane	0.3238	0.3267	0.3387	0.3659	0.3515	0.3487		0.3426	5	AVG	
Chlorobenzene	#1.0231	0.9993	0.9813	1.0435	1.0025	1.0128		1.0104	2	AVG	#
1,1,1,2-Tetrachloroethane	0.3135	0.3266	0.3323	0.3691	0.3578	0.3613		0.3434	6	AVG	
Ethylbenzene	*1.7297	1.6639	1.6459	1.7660	1.7110	1.7310		1.7079	3	AVG	*
m+p-Xylene	0.6807	0.6731	0.6707	0.7212	0.7027	0.7111		0.6932	3	AVG	
Xylene (Total)	0.6715	0.6707	0.6658	0.7180	0.6996	0.7097		0.6892	3	AVG	
o-Xylene	0.6533	0.6659	0.6559	0.7116	0.6933	0.7069		0.6811	4	AVG	
Styrene	0.9342	0.9787	1.0314	1.1651	1.1441	1.1871		1.0734	10	AVG	
Bromoform	#0.1895	0.2072	0.2328	0.2828	0.2880	0.3106		0.2518	19	2NDDEG	#
Isopropylbenzene	1.6879	1.6626	1.6764	1.7981	1.7776	1.8167		1.7365	4	AVG	
Cyclohexanone	0.3624	0.4175	0.3666	0.4983	0.3961	0.3567		0.3996	13	AVG	
1,1,2,2-Tetrachloroethane	#0.7641	0.7483	0.7723	0.8443	0.8011	0.8047		0.7891	4	AVG	#
trans-1,4-Dichloro-2-Butene	0.2447	0.2586	0.2555	0.2743	0.2588	0.2508		0.2571	4	AVG	
Bromobenzene	0.7370	0.7346	0.7304	0.7867	0.7422	0.7647		0.7492	3	AVG	
1,2,3-Trichloropropane	0.2568	0.2420	0.2505	0.2660	0.2497	0.2476		0.2521	3	AVG	
n-Propylbenzene	3.3954	3.2517	3.2321	3.4370	3.3015	3.2399		3.3096	3	AVG	
2-Chlorotoluene	0.7106	0.6955	0.6786	0.7222	0.6873	0.6998		0.6990	2	AVG	
1,3,5-Trimethylbenzene	2.3975	2.3526	2.3731	2.5725	2.4762	2.5198		2.4486	4	AVG	
4-Chlorotoluene	0.7364	0.6992	0.6870	0.7560	0.7115	0.7090		0.7165	4	AVG	
tert-Butylbenzene	0.5775	0.5475	0.5596	0.6001	0.5855	0.6036		0.5790	4	AVG	
Pentachloroethane	0.3681	0.3433	0.4031	0.4589	0.4767	0.4727		0.4205	14	AVG	
1,2,4-Trimethylbenzene	2.4751	2.4297	2.4560	2.6417	2.5341	2.5942		2.5218	3	AVG	
sec-Butylbenzene	3.0495	2.9833	3.0239	3.2707	3.2033	3.1218		3.1088	4	AVG	
p-Isopropyltoluene	2.7799	2.6545	2.7357	2.9462	2.8794	2.9141		2.8183	4	AVG	
1,3-Dichlorobenzene	1.4979	1.4420	1.4148	1.5200	1.4357	1.4908		1.4669	3	AVG	
1,4-Dichlorobenzene	1.5677	1.4907	1.4909	1.5767	1.4958	1.5410		1.5271	3	AVG	
1,2,3-Trimethylbenzene	2.5591	2.3922	2.6042	2.6905	2.6935	2.6491		2.5981	4	AVG	
Benzyl Chloride	1.3271	1.4080	1.5807	1.8603	1.8070	1.8844		1.6446	15	AVG	
1,3-Diethylbenzene	1.6075	1.4704	1.6441	1.6895	1.7505	1.7639		1.6543	7	AVG	
1,4-Diethylbenzene	1.6522	1.4921	1.6577	1.7174	1.7646	1.7479		1.6720	6	AVG	
n-Butylbenzene	1.3924	1.2885	1.3422	1.4250	1.3952	1.4276		1.3785	4	AVG	
1,2-Dichlorobenzene	1.4733	1.4187	1.4390	1.5431	1.4547	1.3817		1.4517	4	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL84 0176

FORM VI VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 Calibration Date(s): 10/19/09 10/20/09

Heated Purge: (Y/N) Y Calibration Times: 23:36 02:15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

LAB FILE ID: RRF 4 = yc19i06.d RRF 10= yc19i05.d RRF 20= yc19i04.d
RRF 50= yc19i03.d RRF100= yc19i07.d RRF300= yc19i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
1,2-Diethylbenzene	1.3787	1.2513	1.3651	1.4204	1.4380	1.4455		1.3832	5	AVG
1,2-Dibromo-3-Chloropropane	0.1631	0.1603	0.1657	0.1872	0.1770	0.1777		0.1718	6	AVG
1,3,5-Trichlorobenzene	1.2144	1.1458	1.1517	1.1695	1.2351	1.1623		1.1798	3	AVG
1,2,4-Trichlorobenzene	1.2454	1.1707	1.1851	1.2384	1.1618	1.1296		1.1885	4	AVG
Hexachlorobutadiene	0.5971	0.5313	0.5594	0.5780	0.5596	0.5709		0.5660	4	AVG
Naphthalene	3.3619	3.1015	3.2313	3.4621	3.0313	2.7968		3.1641	8	AVG
1,2,3-Trichlorobenzene	1.2650	1.1270	1.1398	1.1956	1.0747	1.0251		1.1379	7	AVG
2-Methylnaphthalene	2.4723	2.1198	2.2928	2.3249	1.6873	1.4557		2.0588	19	2NDDEG
Dibromofluoromethane	0.2440	0.2601	0.2327	0.2832	0.2564	0.2525		0.2548	7	AVG
Dibromofluoromethane(mz111)	0.2526	0.2595	0.2391	0.2887	0.2598	0.2580		0.2596	6	AVG
1,2-Dichloroethane-d4	0.0622	0.0686	0.0610	0.0742	0.0640	0.0623		0.0654	8	AVG
1,2-Dichloroethane-d4(mz104)	0.0402	0.0418	0.0363	0.0459	0.0408	0.0406		0.0409	8	AVG
Toluene-d8(mz100)	0.8597	0.9176	0.8284	0.9981	0.9328	0.9319		0.9114	7	AVG
1,2-Dichloroethane-d4(mz65)	0.3407	0.3523	0.3119	0.3738	0.3434	0.3208		0.3405	7	AVG
4-Bromofluorobenzene(mz174)	0.4661	0.4918	0.4359	0.5233	0.4922	0.4963		0.4843	6	AVG
Toluene-d8	1.3452	1.3946	1.2443	1.5141	1.4106	1.4071		1.3860	6	AVG
4-Bromofluorobenzene	0.5046	0.5370	0.4712	0.5697	0.5270	0.5244		0.5223	6	AVG

Average %RSD 6

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL04 0177

FORM VI VOA

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem2/HP09355.i/09oct19i.b/yc19i01.d VSTD300
/chem2/HP09355.i/09oct19i.b/yc19i03.d VSTD050
/chem2/HP09355.i/09oct19i.b/yc19i04.d VSTD020
/chem2/HP09355.i/09oct19i.b/yc19i05.d VSTD010
/chem2/HP09355.i/09oct19i.b/yc19i06.d VSTD004
/chem2/HP09355.i/09oct19i.b/yc19i07.d VSTD100

Area Summary

File ID:

Internal Standard Name	yc19i01.d	yc19i03.d	yc19i04.d	yc19i05.d	yc19i06.d	yc19i07.d	Avg. Area	%RSD	In Spec
t-Butyl Alcohol-d10	180424	213627	205336	200515	212228	198816	201824	6	Yes
Fluorobenzene	1180271	1143665	1137644	1100279	1079219	1124601	1127613	3	Yes
Chlorobenzene-d5	907946	871564	863363	836348	825331	854034	859764	3	Yes
1,4-Dichlorobenzene-d4	578575	546439	541559	523900	514565	544248	541548	4	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

Internal Standard Name	yc19i01.d	yc19i03.d	yc19i04.d	yc19i05.d	yc19i06.d	yc19i07.d	Avg. RT
t-Butyl Alcohol-d10	2.358	2.358	2.358	2.352	2.352	2.346	2.354
Fluorobenzene	4.555	4.554	4.548	4.548	4.548	4.555	4.551
Chlorobenzene-d5	7.724	7.718	7.724	7.718	7.718	7.718	7.720
1,4-Dichlorobenzene-d4	9.665	9.658	9.658	9.659	9.658	9.659	9.660

* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 10/20/2009 at 03:56.

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 ICV Date: 10/20/09 Time: 03:39

Lab File ID: yc19v01.d Init. Calib. Date(s): 10/19/09 10/20/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	___ RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dichlorodifluoromethane	0.3869	0.3557	18.39	20	-8
# Chloromethane	0.3896	0.3773	19.36	20	-3 #
* Vinyl Chloride	0.3701	0.3668	19.82	20	-1 *
1,3-Butadiene	0.2712	0.2954	21.79	20	9
Bromomethane	0.2296	0.1949	16.98	20	-15
Chloroethane	0.2008	0.1704	16.97	20	-15
Dichlorofluoromethane	0.3023	0.3086	20.41	20	2
Trichlorofluoromethane	0.4267	0.4222	19.79	20	-1
n-Pentane	0.6406	0.5958	18.60	20	-7
Ethyl Ether	0.2291	0.2412	21.06	20	5
Freon 123a	0.3013	0.3086	20.48	20	2
Acrolein	1.9756	1.7932	136.15	150	-9
* 1,1-Dichloroethene	0.2208	0.2392	21.67	20	8 *
Freon 113	0.2465	0.2582	20.95	20	5
Acetone	0.0352	0.0327	139.61	150	-7
Methyl Iodide	0.4719	0.4997	21.18	20	6
2-Propanol	0.8120	0.8160	150.74	150	0
Carbon Disulfide	0.7122	0.7510	21.09	20	5
Allyl Chloride	0.4273	0.4448	20.82	20	4
Methyl Acetate	0.2841	0.3032	21.34	20	7
Methylene Chloride	0.2587	0.2804	21.69	20	8
t-Butyl Alcohol	1.2874	1.1679	181.44	200	-9
Acrylonitrile	0.1373	0.1327	96.69	100	-3
trans-1,2-Dichloroethene	0.2498	0.2688	21.52	20	8
Methyl Tertiary Butyl Ether	0.8744	0.9183	21.00	20	5
n-Hexane	0.3978	0.4057	20.40	20	2
1,2-Dichloroethene (total)	0.2604	0.2765	42.50	40	6
# 1,1-Dichloroethane	0.4631	0.4938	21.33	20	7 #
di-Isopropyl Ether	0.9187	0.9624	20.95	20	5
2-Chloro-1,3-Butadiene	0.4144	0.4677	22.57	20	13
Ethyl t-Butyl Ether	0.8845	0.9074	20.52	20	3
cis-1,2-Dichloroethene	0.2709	0.2842	20.98	20	5
2-Butanone	0.1854	0.1814	146.70	150	-2
2,2-Dichloropropane	0.3927	0.4116	20.96	20	5
Propionitrile	1.4631	1.4139	144.96	150	-3
Methacrylonitrile	0.1404	0.1431	152.80	150	2

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

PTL84 8179

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 ICV Date: 10/20/09 Time: 03:39

Lab File ID: yc19v01.d Init. Calib. Date(s): 10/19/09 10/20/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	___ RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
Bromochloromethane	0.1444	0.1504	20.83	20	4
Tetrahydrofuran	1.2848	1.2606	98.11	100	-2
* Chloroform	0.4431	0.4739	21.39	20	7 *
1,1,1-Trichloroethane	0.4563	0.4815	21.11	20	6
Cyclohexane	0.4855	0.5070	20.89	20	4
1,1-Dichloropropene	0.3519	0.3728	21.18	20	6
Carbon Tetrachloride	0.3365	0.3484	20.71	20	4
Isobutyl Alcohol	0.3846	0.3552	461.70	500	-8
Benzene	1.0448	1.1042	21.14	20	6
1,2-Dichloroethane	0.3858	0.4069	21.09	20	5
t-Amyl Methyl Ether	0.8321	0.8499	20.43	20	2
n-Heptane	0.4664	0.4601	19.73	20	-1
n-Butanol	0.3235	0.2892	893.82	1000	-11
Trichloroethene	0.2677	0.2828	21.13	20	6
* 1,2-Dichloropropane	0.2753	0.2863	20.80	20	4 *
Methylcyclohexane	0.4860	0.5152	21.20	20	6
Methyl Methacrylate	0.2220	0.2213	19.94	20	0
Dibromomethane	0.1702	0.1747	20.53	20	3
1,4-Dioxane	0.1115	0.0925	382.40	500	-24
Bromodichloromethane	0.3215	0.3194	19.87	20	-1
2-Nitropropane	0.0817	0.0679	16.62	20	-17
2-Chloroethyl Vinyl Ether	0.1917	0.1977	20.62	20	3
cis-1,3-Dichloropropene	0.4160	0.4212	20.25	20	1
4-Methyl-2-Pentanone	0.3990	0.3995	100.13	100	0
* Toluene	0.8844	0.9181	20.76	20	4 *
trans-1,3-Dichloropropene	0.5238	0.5173	19.75	20	-1
Ethyl Methacrylate	0.5178	0.5098	19.69	20	-2
1,1,2-Trichloroethane	0.3174	0.3258	20.53	20	3
Tetrachloroethene	0.4448	0.4548	20.45	20	2
1,3-Dichloropropane	0.5553	0.5637	20.30	20	2
2-Hexanone	0.3799	0.3656	96.25	100	-4
Dibromochloromethane	0.3434	0.3315	19.31	20	-3
1,2-Dibromoethane	0.3426	0.3496	20.41	20	2
# Chlorobenzene	1.0104	1.0270	20.33	20	2 #
1,1,1,2-Tetrachloroethane	0.3434	0.3362	19.58	20	-2
* Ethylbenzene	1.7079	1.7185	20.12	20	1 *

PTL04 0100

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 ICV Date: 10/20/09 Time: 03:39

Lab File ID: yc19v01.d Init. Calib. Date(s): 10/19/09 10/20/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT
m+p-Xylene	0.6932	0.7042	40.63	40	2
Xylene (Total)	0.6892	0.6977	60.74	60	1
o-Xylene	0.6811	0.6849	20.11	20	1
Styrene	1.0734	1.0808	20.14	20	1
# Bromoform	0.2518	0.2274	18.19	20	-9 #
Isopropylbenzene	1.7365	1.7613	20.29	20	1
Cyclohexanone	0.3996	0.3064	383.37	500	-23
# 1,1,2,2-Tetrachloroethane	0.7891	0.7793	19.75	20	-1 #
trans-1,4-Dichloro-2-Butene	0.2571	0.2533	98.53	100	-1
Bromobenzene	0.7492	0.7471	19.94	20	0
1,2,3-Trichloropropane	0.2521	0.2495	19.80	20	-1
n-Propylbenzene	3.3096	3.3185	20.05	20	0
2-Chlorotoluene	0.6990	0.7025	20.10	20	0
1,3,5-Trimethylbenzene	2.4486	2.4340	19.88	20	-1
4-Chlorotoluene	0.7165	0.7141	19.93	20	0
tert-Butylbenzene	0.5790	0.5755	19.88	20	-1
Pentachloroethane	0.4205	0.4088	19.45	20	-3
1,2,4-Trimethylbenzene	2.5218	2.4679	19.57	20	-2
sec-Butylbenzene	3.1088	3.0995	19.94	20	0
p-Isopropyltoluene	2.8183	2.7633	19.61	20	-2
1,3-Dichlorobenzene	1.4669	1.4429	19.67	20	-2
1,4-Dichlorobenzene	1.5271	1.5045	19.70	20	-1
1,2,3-Trimethylbenzene	2.5981	2.5928	19.96	20	0
Benzyl Chloride	1.6446	1.5181	18.46	20	-8
1,3-Diethylbenzene	1.6543	1.6383	19.81	20	-1
1,4-Diethylbenzene	1.6720	1.6690	19.96	20	0
n-Butylbenzene	1.3785	1.3589	19.72	20	-1
1,2-Dichlorobenzene	1.4517	1.4333	19.75	20	-1
1,2-Diethylbenzene	1.3832	1.3711	19.83	20	-1
1,2-Dibromo-3-Chloropropane	0.1718	0.1538	17.90	20	-10
1,3,5-Trichlorobenzene	1.1798	1.0608	17.98	20	-10
1,2,4-Trichlorobenzene	1.1885	1.1243	18.92	20	-5
Hexachlorobutadiene	0.5660	0.5271	18.63	20	-7
Naphthalene	3.1641	2.8767	18.18	20	-9
1,2,3-Trichlorobenzene	1.1379	1.0460	18.38	20	-8
2-Methylnaphthalene	2.0588	1.5136	12.74	20	-36

PTL04 0181

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 ICV Date: 10/20/09 Time: 03:39

Lab File ID: yc19v01.d Init. Calib. Date(s): 10/19/09 10/20/09

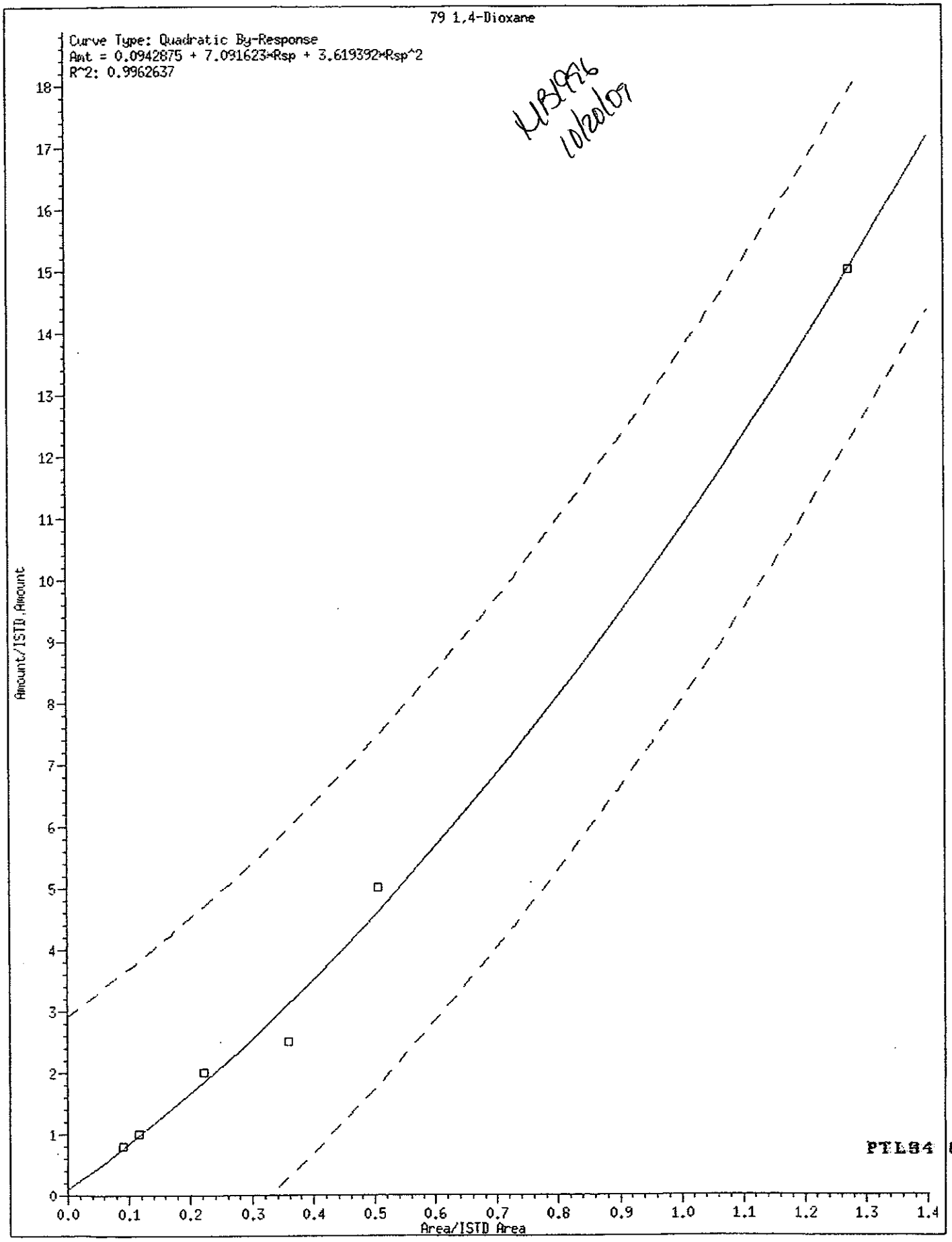
Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT

Average %Drift 5

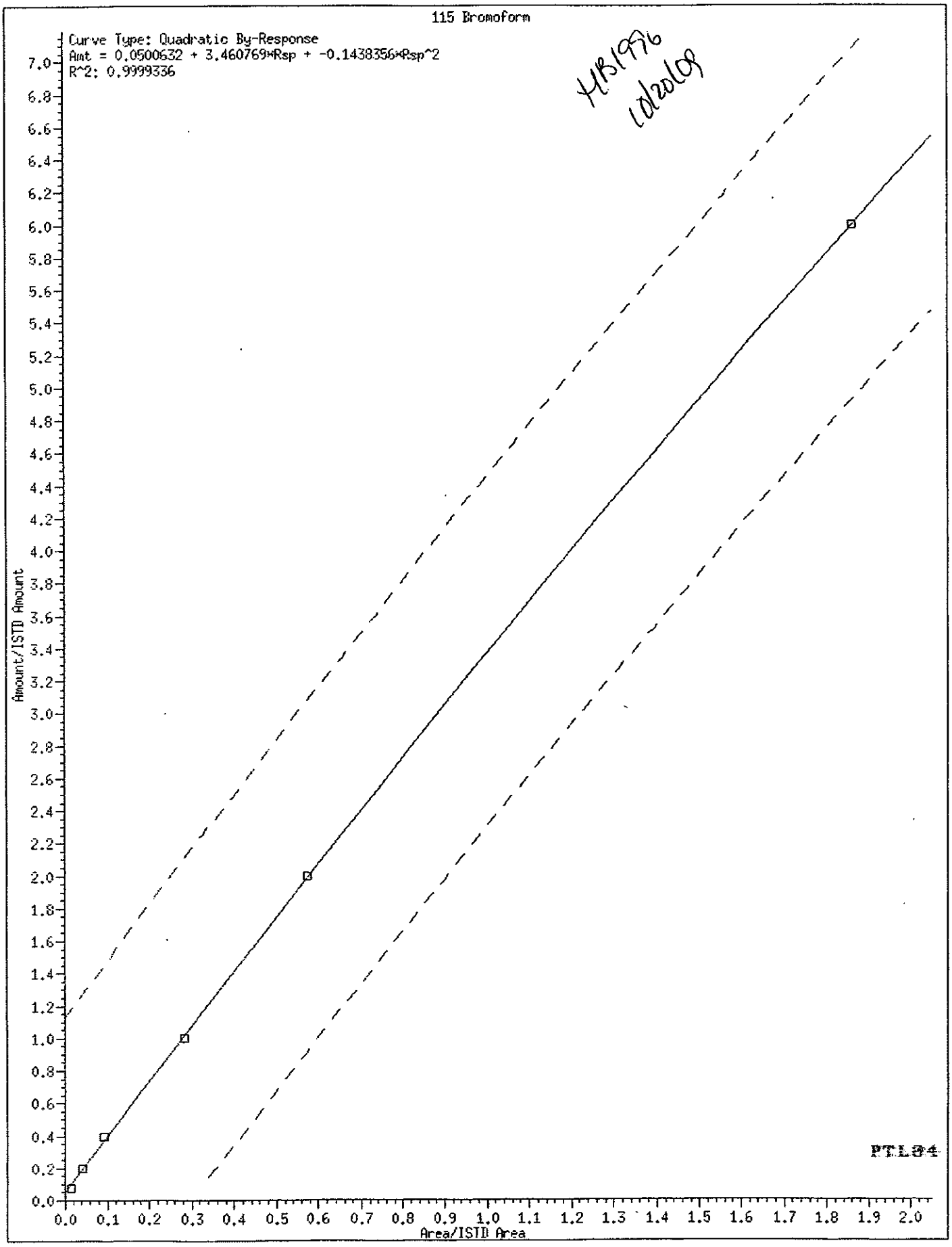
PTL04 0182

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%



LB1996
10/20/09

PTL94 0183

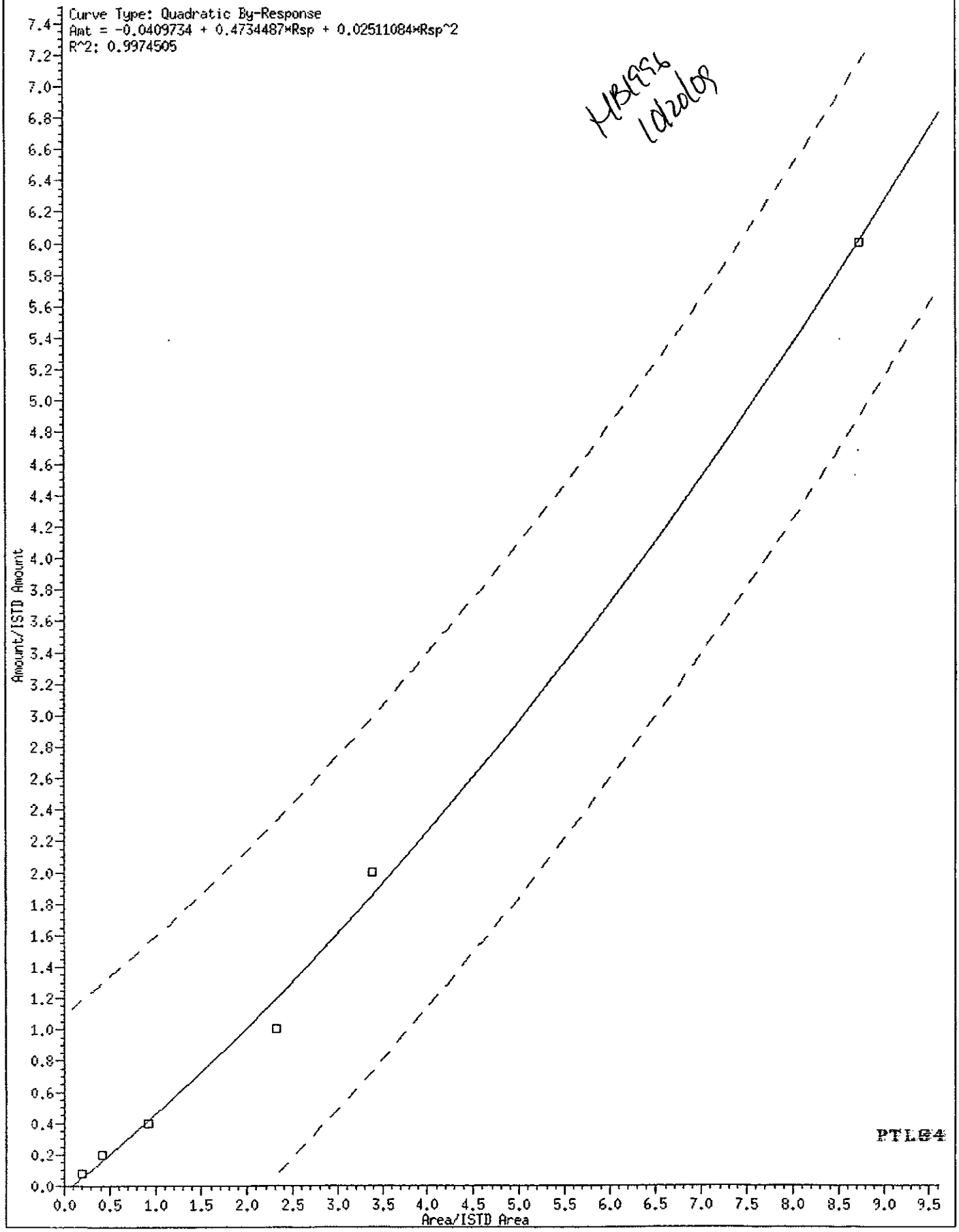

115 Bromoform
Curve Type: Quadratic By-Response
Amt = 0.0500632 + 3.460769*Rsp + -0.1438356*Rsp^2
R^2: 0.9999336
Amount/ISTD Amount
Area/ISTD Area
HB19916
10/20/09

PTL04 0184

154 2-Methylnaphthalene

Curve Type: Quadratic By-Response
Amt = -0.0409734 + 0.4734487*Rsp + 0.02511084*Rsp^2
R^2: 0.9974505

HB996
10/20/08



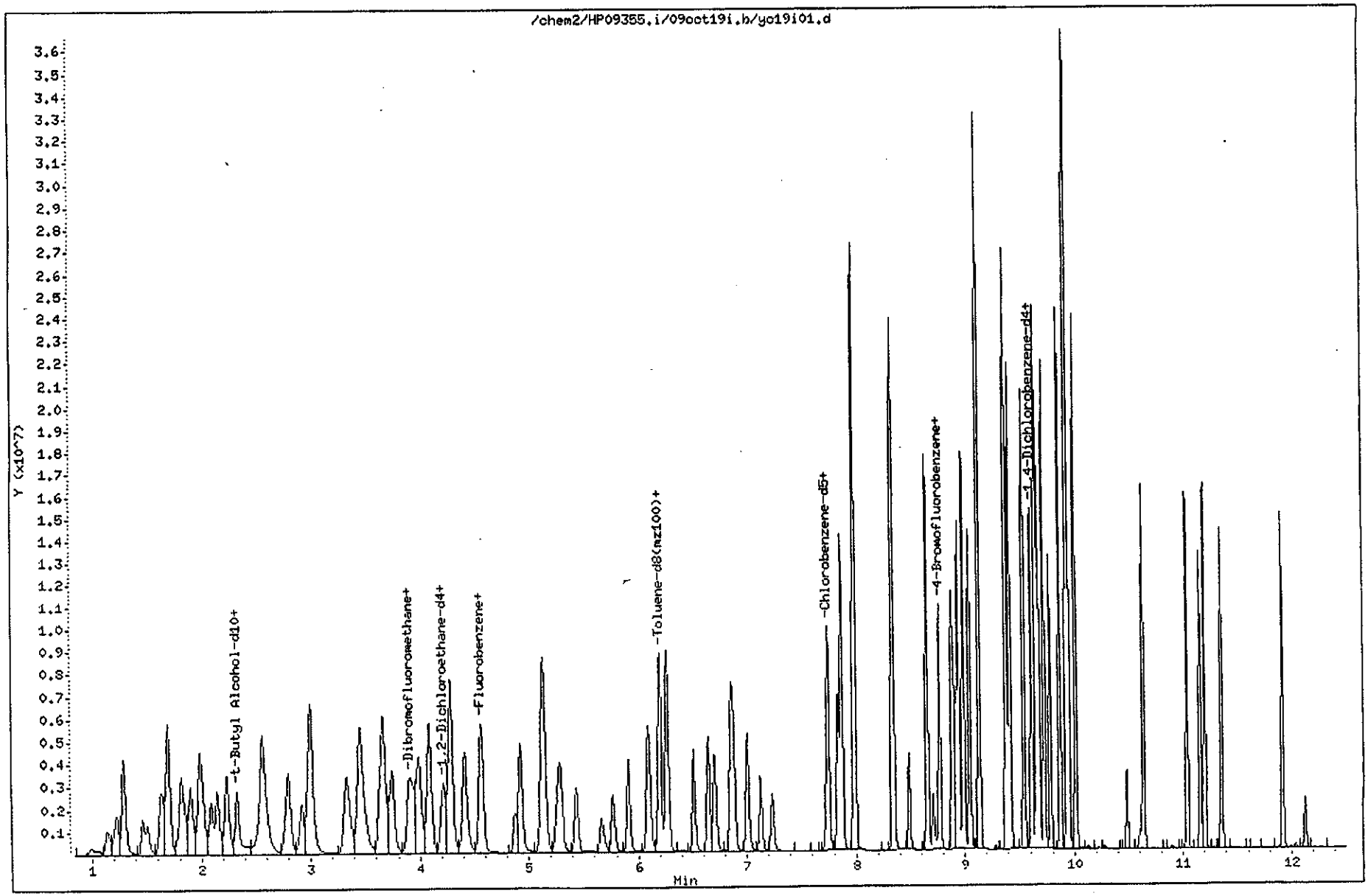
PTL64 0185

Data File: /chem2/HP09355.i/09oct19i.b/yo19i01.d
Date : 19-OCT-2009 23:36
Client ID: VSTD300
Sample Info: VSTD300;VSTD300;1;1;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: MAZ02012
Column diameter: 0.18

MB196
10/20/09



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.136	85	2647945	292.099
3) Chloromethane	(1)	1.227	50	2703615M	295.205
5) Vinyl Chloride	(1)	1.294	62	2536340	291.002
4) 1,3-Butadiene	(1)	1.282	39	1680918	275.095
7) Bromomethane	(1)	1.464	94	1408027	260.855
8) Chloroethane	(1)	1.507	64	1328203	278.910
9) Dichlorofluoromethane	(1)	1.829	67	1983869	281.448
10) Trichlorofluoromethane	(1)	1.689	101	2879511M	287.017
11) n-Pentane	(1)	1.689	43	4253680	293.199
13) Ethyl Ether	(1)	1.817	59	1505347	280.536
14) Freon 123a	(1)	1.829	67	1969999	280.187
15) Acrolein	(4)	1.902	56	4692522	2699.247
16) 1,1-Dichloroethene	(1)	1.981	96	1434921	277.079
18) Freon 113	(1)	2.006	101	1641658	284.919
17) Acetone	(1)	1.999	58	439076	501.028
20) Methyl Iodide	(1)	2.091	142	3102366	278.537
21) 2-Propanol	(4)	2.097	45	757200	1223.549
22) Carbon Disulfide	(1)	2.145	76	4815311	286.680
24) Allyl Chloride	(1)	2.231	41	2823560	282.893
25) Methyl Acetate	(1)	2.243	43	1905034	296.764
26) Methylene Chloride	(1)	2.328	84	1734153	284.146
28)*t-Butyl Alcohol-d10	(4)	2.358	65	180424	250.000
29) t-Butyl Alcohol	(4)	2.431	59	1389918	1445.211
30) Acrylonitrile	(1)	2.523	53	924935	261.409
31) trans-1,2-Dichloroethene	(1)	2.559	96	1698252	286.097
32) Methyl Tertiary Butyl Ether	(1)	2.571	73	5967694	286.201
33) n-Hexane	(1)	2.796	57	2921922	311.412
45) 1,2-Dichloroethene (total)	(1)		96	3566239	575.069
34) 1,1-Dichloroethane	(1)	2.918	63	3138230	284.683
36) di-Isopropyl Ether	(1)	2.997	45	6183754	283.327
37) 2-Chloro-1,3-Butadiene	(1)	3.003	53	2873191	292.388
39) Ethyl t-Butyl Ether	(1)	3.332	59	6092005	288.266
40) cis-1,2-Dichloroethene	(1)	3.447	96	1867987	288.972
41) 2-Butanone	(1)	3.459	43	2517325	523.095

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) 2,2-Dichloropropane	(1)	3.459	77	2715087	291.717
43) Propionitrile	(4)	3.508	54	1733536	1529.898
46) Methacrylonitrile	(1)	3.654	67	2529728	752.410
47) Bromochloromethane	(1)	3.666	128	1020956	297.072
48) Tetrahydrofuran	(4)	3.715	71	654640	572.129
50) Chloroform	(1)	3.745	83	3032595	289.247
53) 1,1,1-Trichloroethane	(1)	3.928	97	2982712	285.173
56) Cyclohexane	(1)	3.989	56	3401217	298.364
54) Cyclohexane (mz 84)	(1)	3.989	84	2860172	300.223
55) Cyclohexane (mz 69)	(1)	3.989	69	1019879	300.882
57) 1,1-Dichloropropene	(1)	4.080	75	2411772	290.223
58) Carbon Tetrachloride	(1)	4.092	117	2429807	301.327
59) Isobutyl Alcohol	(4)	4.214	41	1027070	3521.501
63) Benzene	(1)	4.281	78	7228866	292.139
65) 1,2-Dichloroethane	(1)	4.293	62	2592123	283.805
64) 1,2-Dichloroethane (mz 98)	(1)	4.293	98	236849	302.090
69) t-Amyl Methyl Ether	(1)	4.415	73	5939700	298.058
72) n-Heptane	(1)	4.567	43	3415264	313.875
71) *Fluorobenzene	(1)	4.555	96	1180271	50.000
73) n-Butanol	(4)	4.871	56	1733735	6883.664
74) Trichloroethene	(1)	4.926	95	1874275	294.768
77) 1,2-Dichloropropane	(1)	5.145	63	1933646	294.566
75) Methylcyclohexane (mz98)	(1)	5.126	98	1709969	321.917
76) Methylcyclohexane	(1)	5.126	83	3693401	323.088
80) Methyl Methacrylate	(1)	5.291	69	1669709	312.050
78) Dibromomethane	(1)	5.260	93	1199681	294.999
79) 1,4-Dioxane	(4)	5.285	88	230035	2767.140
83) Bromodichloromethane	(1)	5.437	83	2414554	310.667
85) 2-Nitropropane	(1)	5.668	41	1362407	608.044
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	1444581	314.522
87) cis-1,3-Dichloropropene	(1)	5.911	75	3083297	306.075
89) 4-Methyl-2-Pentanone	(1)	6.094	43	5684350	540.056
94) Toluene	(2)	6.264	92	4866124	300.396
95) trans-1,3-Dichloropropene	(2)	6.513	75	3042121	310.403

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
96) Ethyl Methacrylate	(2)	6.647	69	3085645	315.340
97) 1,1,2-Trichloroethane	(2)	6.702	97	1728743	297.396
98) Tetrachloroethene	(2)	6.860	166	2390272	294.952
99) 1,3-Dichloropropane	(2)	6.885	76	2982439	292.789
101) 2-Hexanone	(2)	7.006	43	4155292	533.815
102) Dibromochloromethane	(2)	7.128	129	2104806	323.127
104) 1,2-Dibromoethane	(2)	7.237	107	1899368	299.904
106) *Chlorobenzene-d5	(2)	7.724	117	907946	50.000
107) Chlorobenzene	(2)	7.748	112	5517636	298.889
108) 1,1,1,2-Tetrachloroethane	(2)	7.840	131	1968361	307.090
109) Ethylbenzene	(2)	7.870	91	9429793	302.964
110) m+p-Xylene	(2)	7.986	106	7747190	608.386
112) Xylene (Total)	(2)		106	11598126	914.635
113) o-Xylene	(2)	8.332	106	3850936	306.249
114) Styrene	(2)	8.345	104	6466671	320.032
115) Bromoform	(2)	8.485	173	1692066	348.482
116) Isopropylbenzene	(2)	8.655	105	9896941	310.352
118) Cyclohexanone	(4)	8.710	55	965299	3178.405
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	2793454	301.880
124) trans-1,4-Dichloro-2-Butene	(3)	8.947	53	2176851	718.085
121) Bromobenzene	(3)	8.880	156	2654724	301.643
123) 1,2,3-Trichloropropane	(3)	8.923	110	859437	293.051
125) n-Propylbenzene	(3)	8.996	91	11247106	292.533
126) 2-Chlorotoluene	(3)	9.050	126	2429427	298.215
127) 1,3,5-Trimethylbenzene	(3)	9.135	105	8747388	303.902
128) 4-Chlorotoluene	(3)	9.129	126	2461268	294.650
130) tert-Butylbenzene	(3)	9.379	134	2095221	309.689
131) Pentachloroethane	(3)	9.385	167	1640808	330.791
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	9005673	304.272
133) sec-Butylbenzene	(3)	9.549	105	10837276	297.274
135) p-Isopropyltoluene	(3)	9.659	119	10116243	306.752
134) 1,3-Dichlorobenzene	(3)	9.616	146	5175211	302.608
136) *1,4-Dichlorobenzene-d4	(3)	9.665	152	578575	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	5349485	300.406

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

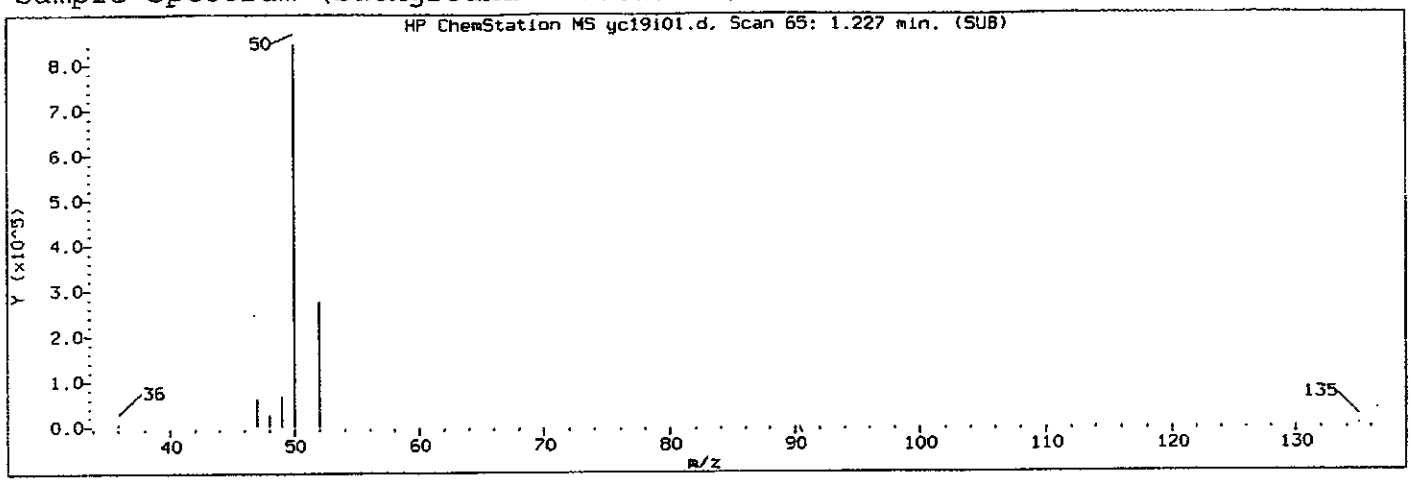
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
139) 1,2,3-Trimethylbenzene	(3)	9.726	105	9196129	304.180
141) Benzyl Chloride	(3)	9.780	91	6541611	326.794
142) 1,3-Diethylbenzene	(3)	9.872	119	6123440	318.746
143) 1,4-Diethylbenzene	(3)	9.932	119	6067679	313.181
145) n-Butylbenzene	(3)	9.951	92	4955929	308.424
144) 1,2-Dichlorobenzene	(3)	9.945	146	4796435	283.493
146) 1,2-Diethylbenzene	(3)	10.011	119	5018138	313.382
148) 1,2-Dibromo-3-Chloropropane	(3)	10.480	75	616735	304.439
149) 1,3,5-Trichlorobenzene	(3)	10.632	180	4034821	300.013
150) 1,2,4-Trichlorobenzene	(3)	11.046	180	3921317	283.151
151) Hexachlorobutadiene	(3)	11.161	225	1981708	300.389
152) Naphthalene	(3)	11.204	128	9708946	261.051
153) 1,2,3-Trichlorobenzene	(3)	11.362	180	3558619	268.918
154) 2-Methylnaphthalene	(3)	11.922	142	5053225	205.384
52)$Dibromofluoromethane	(1)	3.898	113	1788205	293.928
51)$Dibromofluoromethane(mz111)	(1)	3.898	111	1827151	295.249
62)$1,2-Dichloroethane-d4	(1)	4.220	102	441295	279.050
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.220	104	287527	294.880
92)$Toluene-d8(mz100)	(2)	6.197	100	5076807	303.712
61)$1,2-Dichloroethane-d4(mz65)	(1)	4.220	65	2271738M	281.513
120)$4-Bromofluorobenzene(mz174)	(2)	8.770	174	2703513	305.181
93)$Toluene-d8	(2)	6.197	98	7665478	303.447
119)$4-Bromofluorobenzene	(2)	8.770	95	2856866	299.272

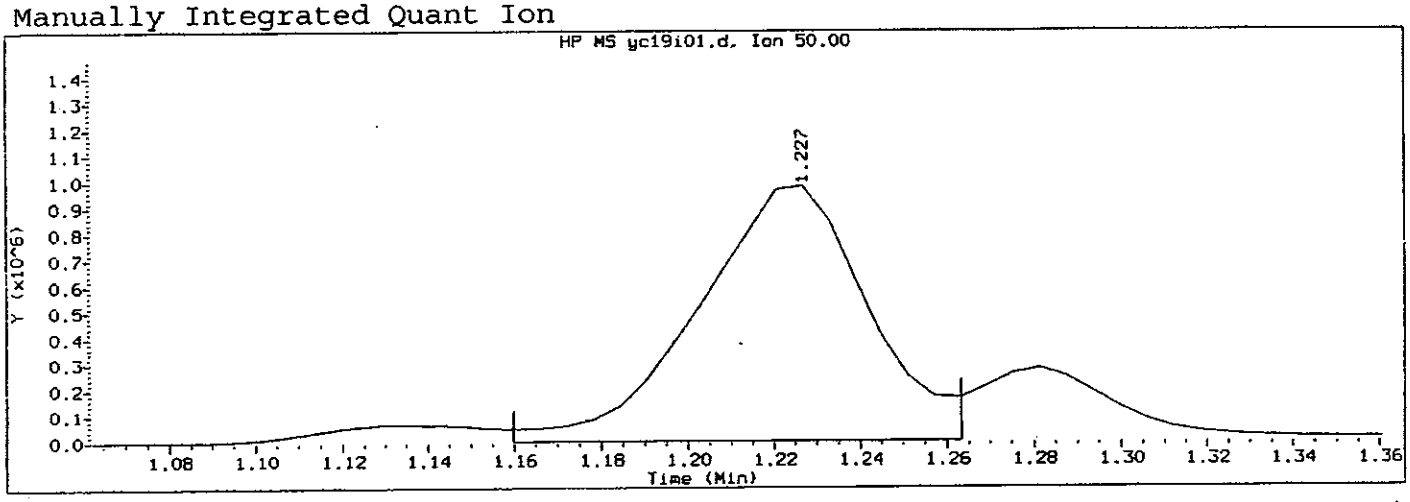
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:31
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 3
Compound Name : Chloromethane
Scan Number : 65
Retention Time (minutes): 1.227
Quant Ion : 50
Area (flag) : 2703615 M
Concentration (ug/L) : 295.2049
Integration start scan : 53 Integration stop scan: 70
Y at integration start : 0 Y at integration end: 0

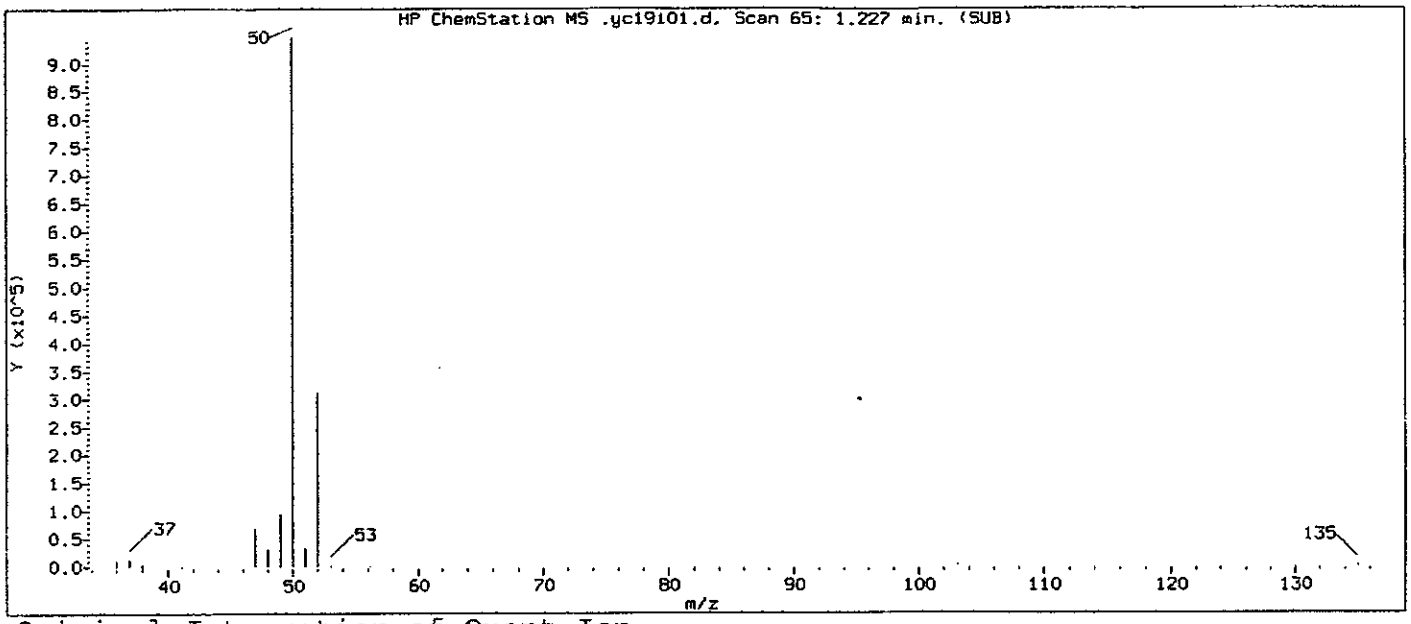
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MB3996 10/20/09

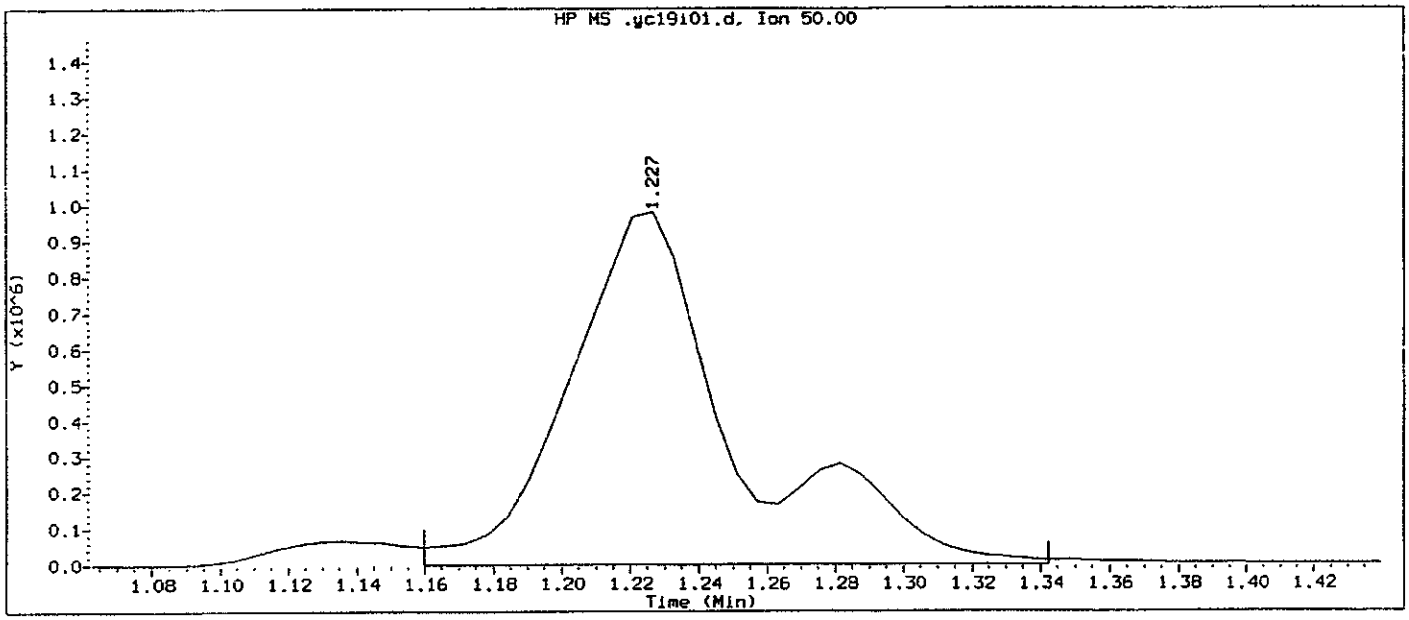
GC/MS audit/management approval: [illegible] 10/20/09 PTL84 0191

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i01.d, generated on 10/20/2009 at 01:31

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:21
Date, time and analyst ID of latest file update: 20-Oct-2009 01:21 hb01996

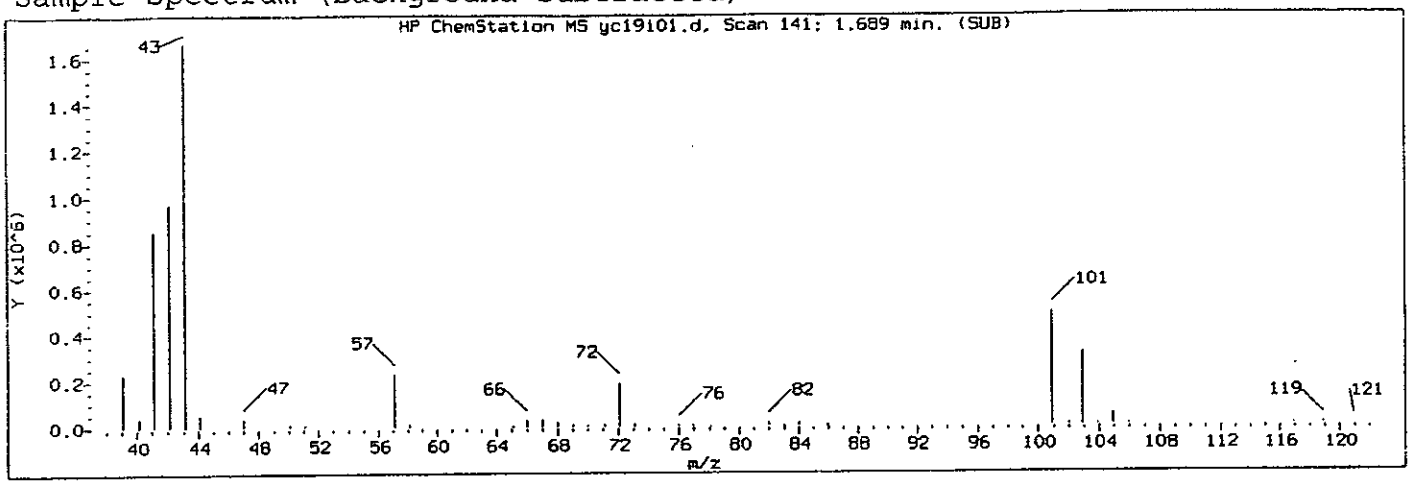
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 3
Compound Name : Chloromethane
Scan Number : 65
Retention Time (minutes): 1.227
Quant Ion : 50
Area : 3263727
Concentration (ug/L) : 300.0000
Integration start scan : 53 Integration stop scan: 83
Y at integration start : 0 Y at integration end: 0

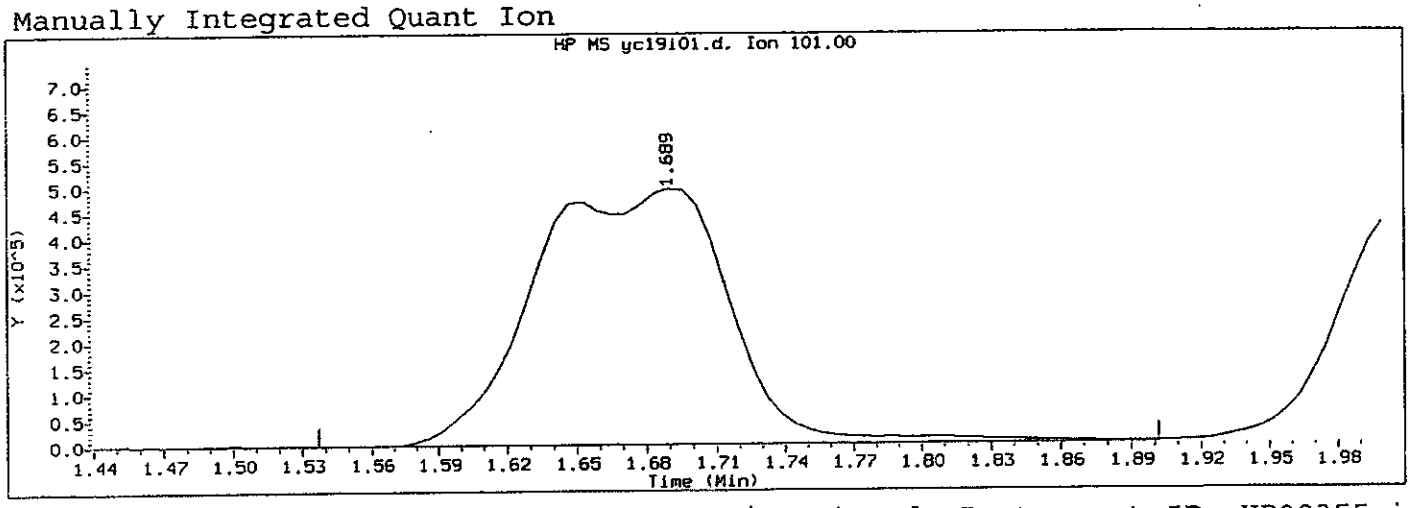
PTL04 0192

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i01.d, generated on 10/20/2009 at 01:31

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:31
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 10
Compound Name : Trichlorofluoromethane
Scan Number : 141
Retention Time (minutes): 1.689
Quant Ion : 101
Area (flag) : 2879511 M
Concentration (ug/L) : 287.0169
Integration start scan : 115 Integration stop scan: 175
Y at integration start : 0 Y at integration end: 0

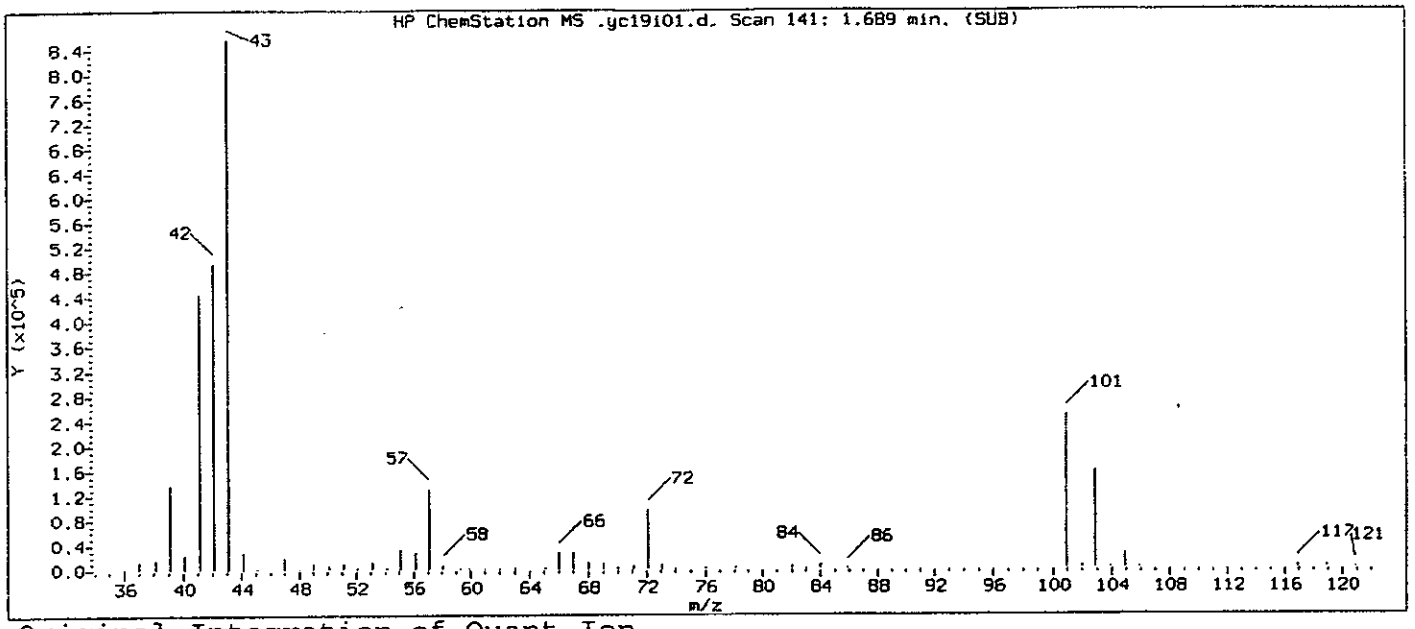
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: HB1996 10/20/09

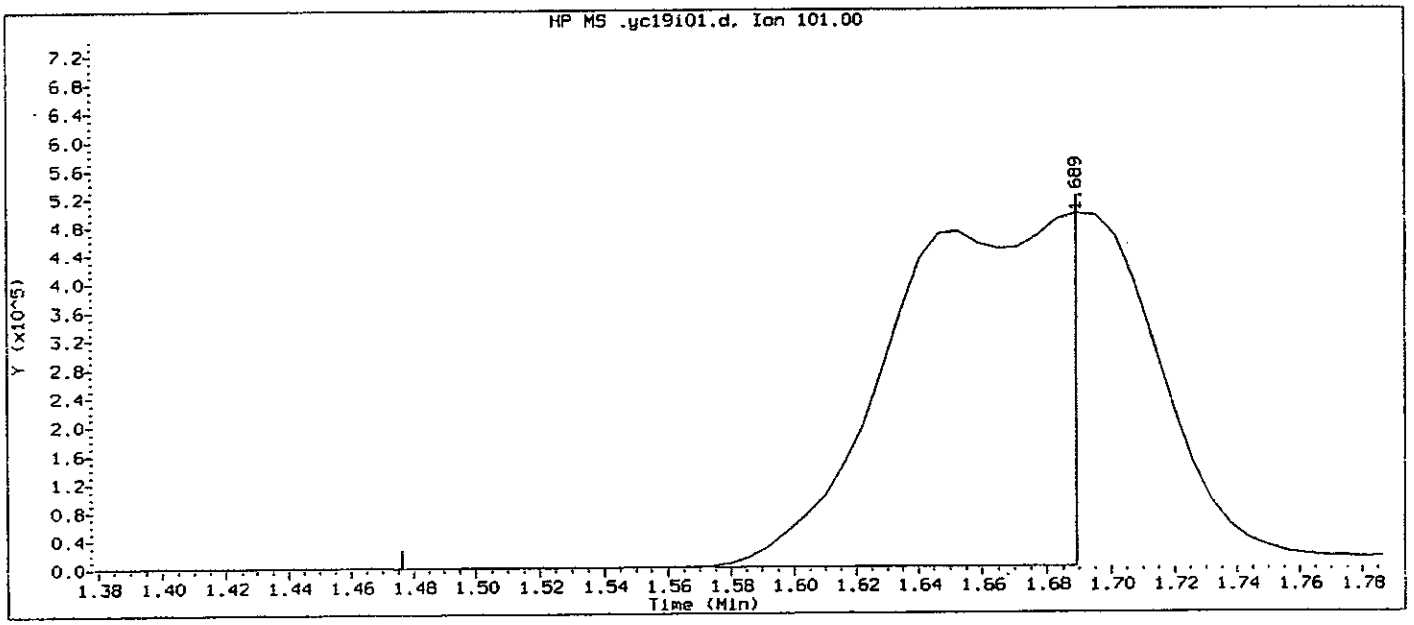
GC/MS audit/management approval: [illegible] 10/20/09 PTL0438193

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i01.d, generated on 10/20/2009 at 01:31

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:21
Date, time and analyst ID of latest file update: 20-Oct-2009 01:21 hb01996

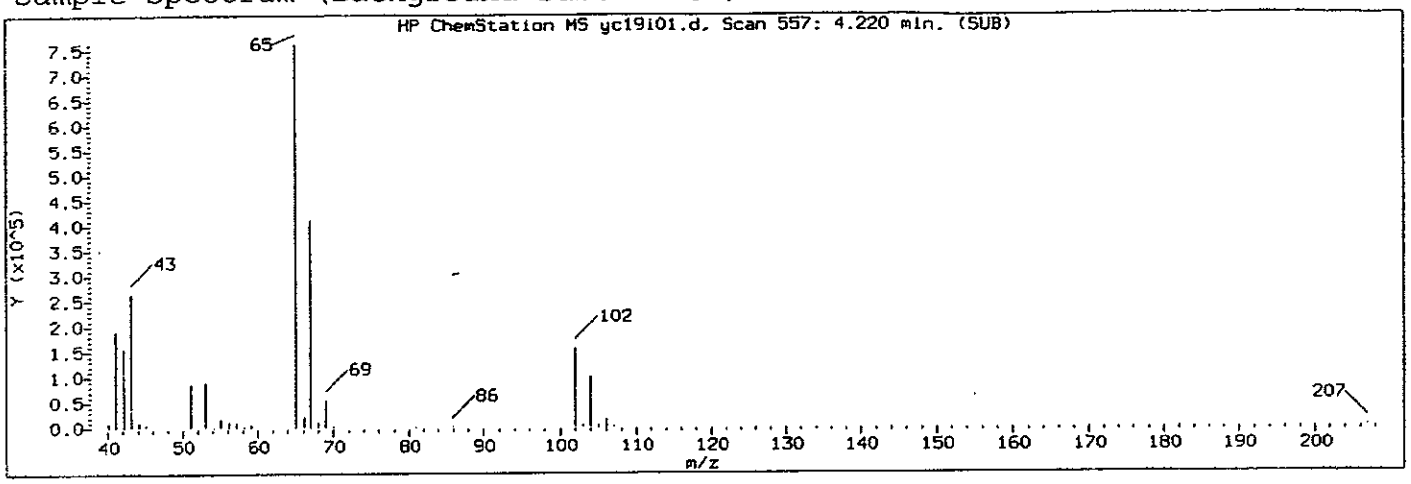
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 10
Compound Name : Trichlorofluoromethane
Scan Number : 141
Retention Time (minutes) : 1.689
Quant Ion : 101
Area : 1882737
Concentration (ug/L) : 300.0000
Integration start scan : 105 Integration stop scan: 140
Y at integration start : 381 Y at integration end: 381

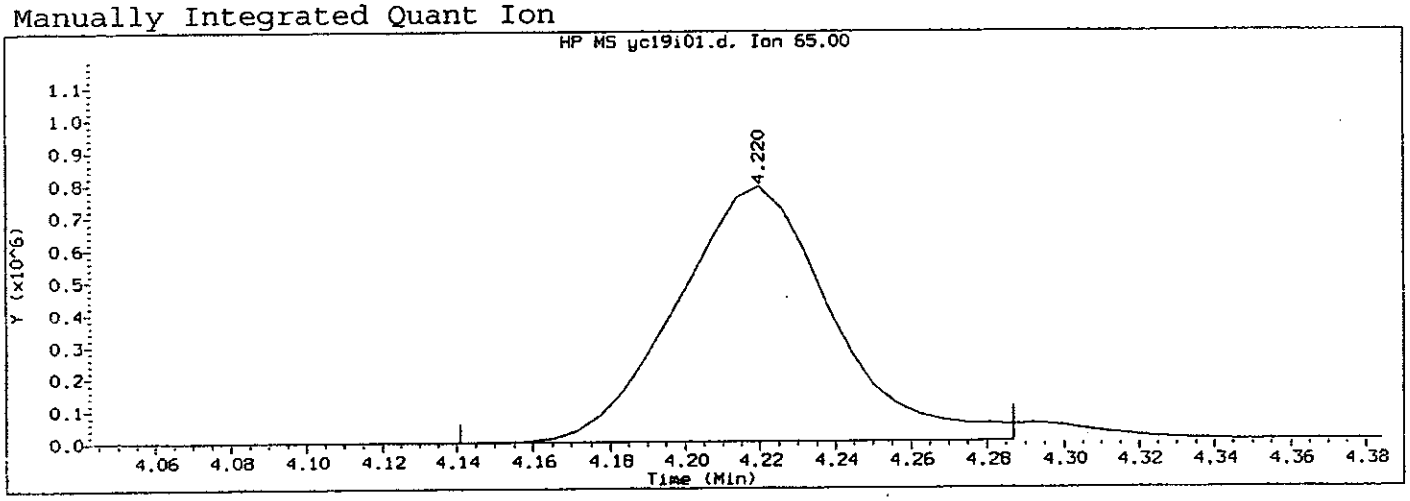
PTL04 0194

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i01.d, generated on 10/20/2009 at 01:31

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:31
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 61
Compound Name : 1,2-Dichloroethane-d4(mz65)
Scan Number : 557
Retention Time (minutes): 4.220
Quant Ion : 65
Area (flag) : 2271738 M
Concentration (ug/L) : 281.5127
Integration start scan : 543 Integration stop scan: 567
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

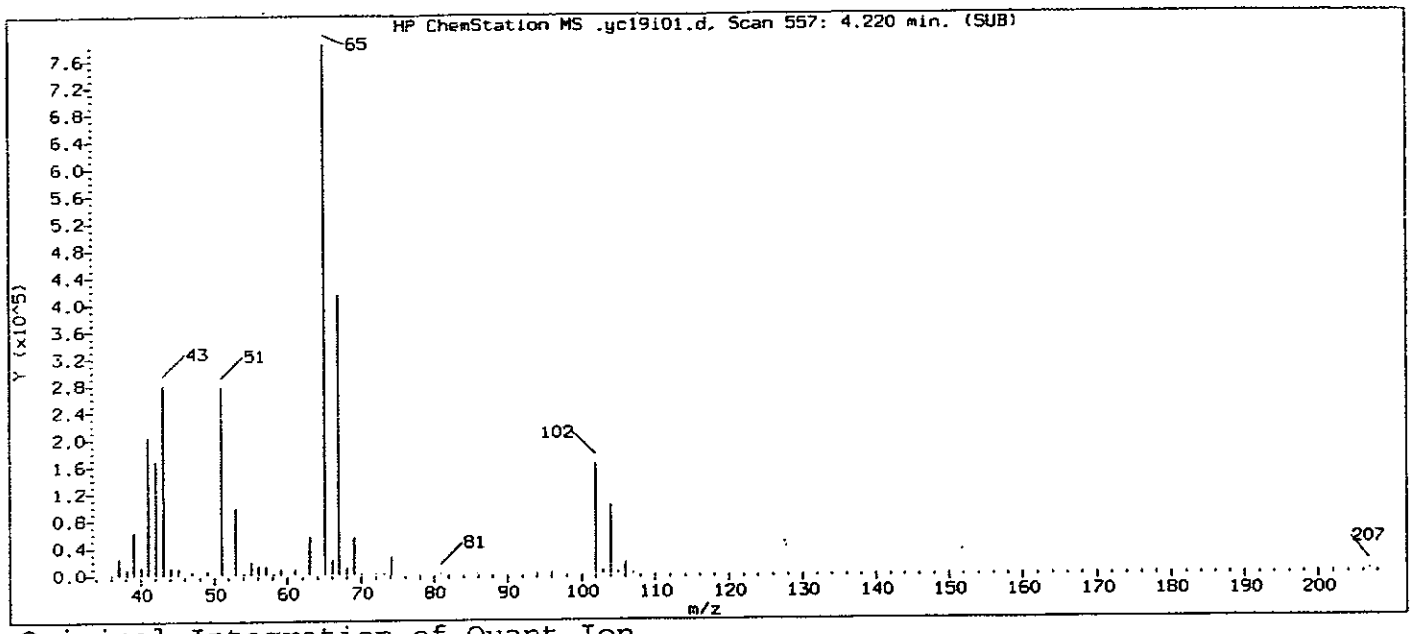
Analyst responsible for change: HB1996 10/20/09

GC/MS audit/management approval: [illegible] 10/20/09

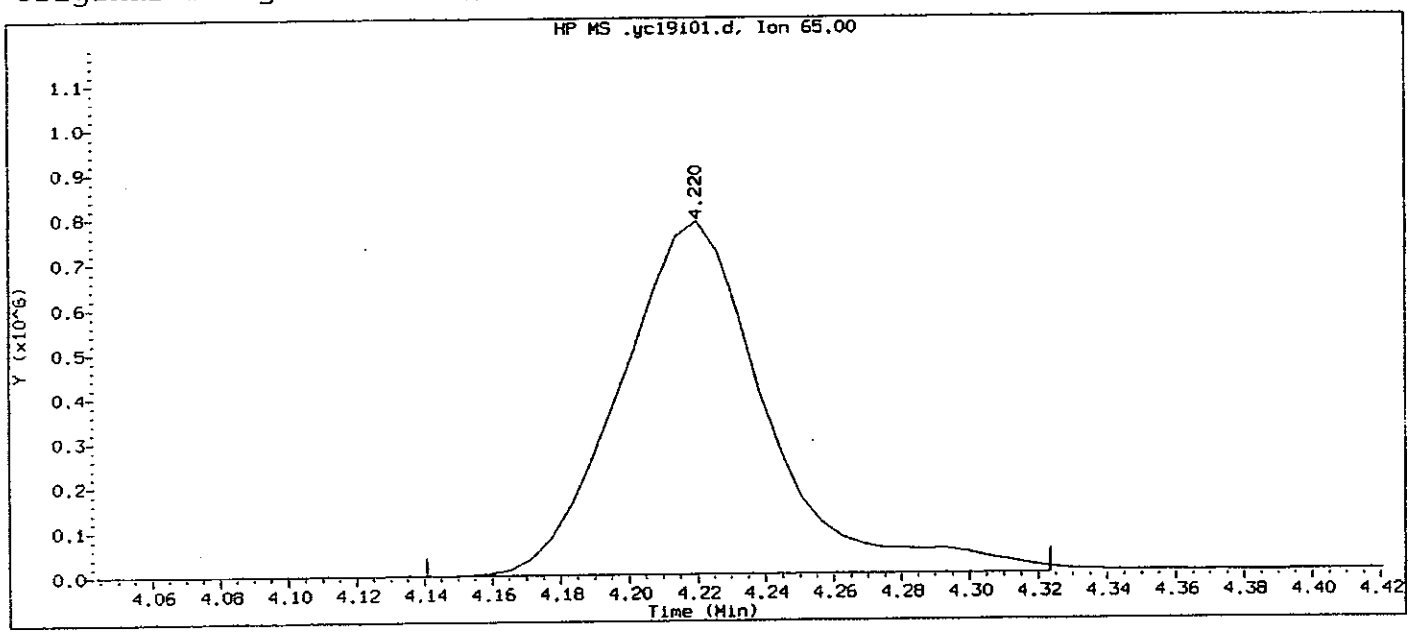
PTL84 8195

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i01.d, generated on 10/20/2009 at 01:31

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i01.d Instrument ID: HP09355.i
Injection date and time: 19-OCT-2009 23:36 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:21
Date, time and analyst ID of latest file update: 20-Oct-2009 01:21 hb01996

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 61
Compound Name : 1,2-Dichloroethane-d4(mz65)
Scan Number : 557
Retention Time (minutes): 4.220
Quant Ion : 65
Area : 2342922
Concentration (ug/L) : 300.0000
Integration start scan : 543 Integration stop scan: 573
Y at integration start : 0 Y at integration end: 0

PTL04 0196

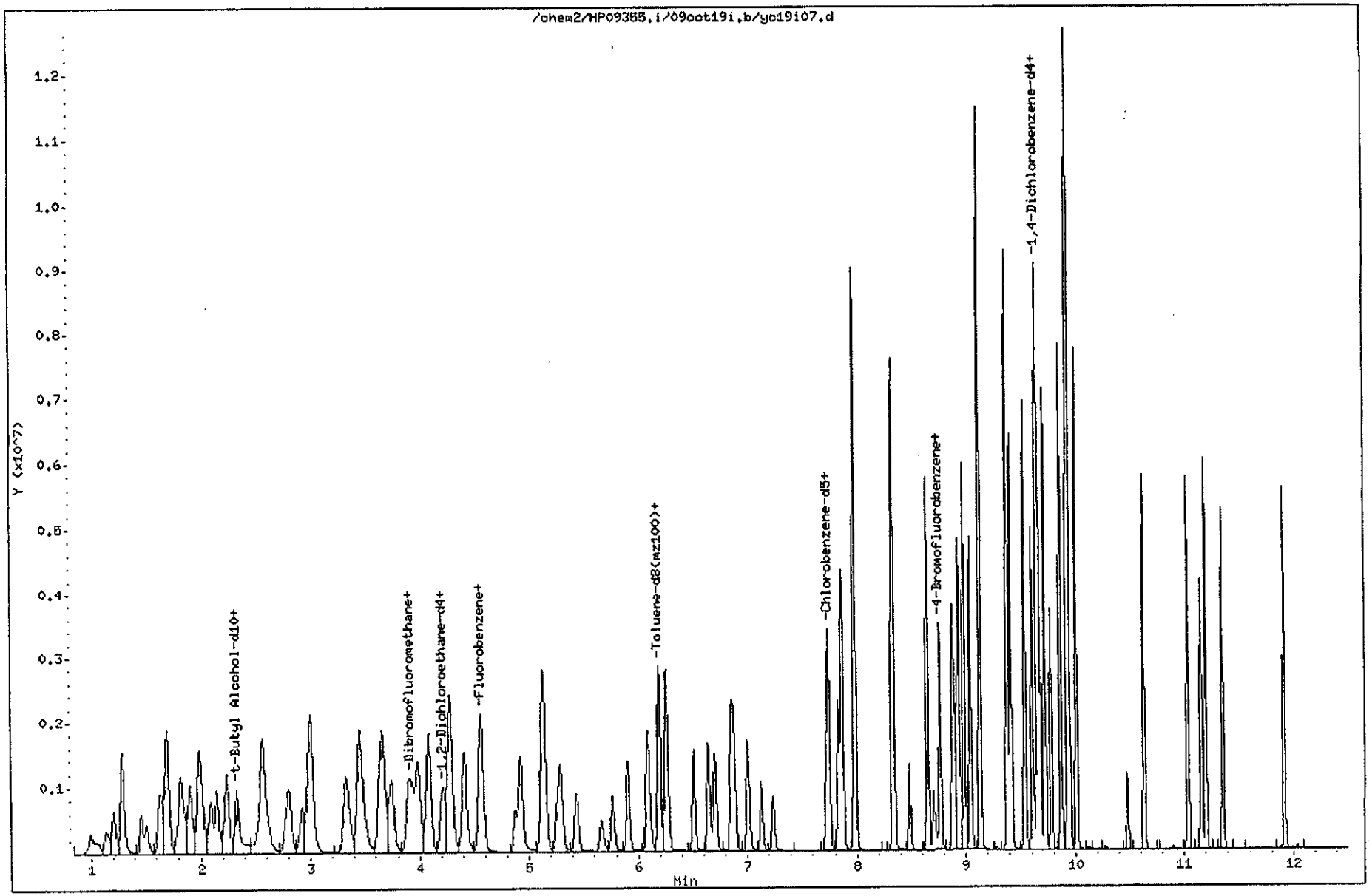
Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i01.d, generated on 10/20/2009 at 01:31

Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d
Date : 20-OCT-2009 02:15
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: MAZ02012
Column diameter: 0.18

MB996 10/20/09



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 02:15 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 02:32 hb01996

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.136	85	853692	98.090
3) Chloromethane	(1)	1.209	50	841004	95.963
5) Vinyl Chloride	(1)	1.288	62	826626	99.302
4) 1,3-Butadiene	(1)	1.282	39	574366	94.167
7) Bromomethane	(1)	1.458	94	509157	98.577
8) Chloroethane	(1)	1.507	64	440013	97.403
9) Dichlorofluoromethane	(1)	1.829	67	662346	97.415
10) Trichlorofluoromethane	(1)	1.653	101	938862	97.824
11) n-Pentane	(1)	1.689	43	1417455	98.375
13) Ethyl Ether	(1)	1.817	59	496040	96.270
14) Freon 123a	(1)	1.829	67	652859	96.348
15) Acrolein	(4)	1.902	56	1550287	986.736
16) 1,1-Dichloroethene	(1)	1.981	96	488248	98.336
18) Freon 113	(1)	1.999	101	541825	97.710
17) Acetone	(1)	2.006	58	151981	192.098
20) Methyl Iodide	(1)	2.091	142	1044452	98.395
21) 2-Propanol	(4)	2.097	45	311864	482.954
22) Carbon Disulfide	(1)	2.145	76	1609973	100.511
24) Allyl Chloride	(1)	2.237	41	962191	100.124
25) Methyl Acetate	(1)	2.243	43	652102	102.064
26) Methylene Chloride	(1)	2.328	84	573773	98.626
28)*t-Butyl Alcohol-d10	(4)	2.346	65	198816	250.000
29) t-Butyl Alcohol	(4)	2.425	59	519116M	507.048
30) Acrylonitrile	(1)	2.523	53	299504	97.006
31) trans-1,2-Dichloroethene	(1)	2.559	96	550876	98.036
32) Methyl Tertiary Butyl Ether	(1)	2.571	73	1927489	98.001
33) n-Hexane	(1)	2.802	57	869973	97.229
45) 1,2-Dichloroethene (total)	(1)		96	1146454	195.777
34) 1,1-Dichloroethane	(1)	2.918	63	1020215	97.951
36) di-Isopropyl Ether	(1)	2.997	45	1997761	96.675
37) 2-Chloro-1,3-Butadiene	(1)	3.003	53	936770	100.500
39) Ethyl t-Butyl Ether	(1)	3.326	59	1954007	98.217
40) cis-1,2-Dichloroethene	(1)	3.447	96	595578	97.741
41) 2-Butanone	(1)	3.435	43	807114	193.509

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 02:15 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 02:32 hb01996

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) 2,2-Dichloropropane	(1)	3.459	77	883696	100.037
43) Propionitrile	(4)	3.502	54	574554	493.809
46) Methacrylonitrile	(1)	3.654	67	791226	250.485
47) Bromochloromethane	(1)	3.666	128	329374	101.442
48) Tetrahydrofuran	(4)	3.715	71	204581	200.218
50) Chloroform	(1)	3.745	83	981807	98.512
53) 1,1,1-Trichloroethane	(1)	3.928	97	967292	94.258
56) Cyclohexane	(1)	3.989	56	1054337	96.550
54) Cyclohexane (mz 84)	(1)	3.989	84	890266	97.988
55) Cyclohexane (mz 69)	(1)	3.989	69	315798	98.089
57) 1,1-Dichloropropene	(1)	4.080	75	781942	98.788
58) Carbon Tetrachloride	(1)	4.086	117	766016	101.219
59) Isobutyl Alcohol	(4)	4.202	41	357890	1170.020
63) Benzene	(1)	4.281	78	2303634	98.031
65) 1,2-Dichloroethane	(1)	4.287	62	854755	98.496
64) 1,2-Dichloroethane (mz 98)	(1)	4.293	98	74776	103.219
69) t-Amyl Methyl Ether	(1)	4.409	73	1850772	98.883
72) n-Heptane	(1)	4.567	43	996562	95.007
71) *Fluorobenzene	(1)	4.555	96	1124601	50.000
73) n-Butanol	(4)	4.871	56	623061	2421.554
74) Trichloroethene	(1)	4.920	95	598127	99.351
77) 1,2-Dichloropropane	(1)	5.139	63	617130	99.669
75) Methylcyclohexane (mz98)	(1)	5.126	98	516615	101.223
76) Methylcyclohexane	(1)	5.126	83	1113889	101.891
80) Methyl Methacrylate	(1)	5.285	69	522043	104.551
78) Dibromomethane	(1)	5.254	93	386075	100.846
79) 1,4-Dioxane	(4)	5.278	88	100540	1134.124
83) Bromodichloromethane	(1)	5.431	83	751445	103.926
85) 2-Nitropropane	(1)	5.662	41	395295	215.007
86) 2-Chloroethyl Vinyl Ether	(1)	5.759	63	459273	106.530
87) cis-1,3-Dichloropropene	(1)	5.905	75	967231	103.378
89) 4-Methyl-2-Pentanone	(1)	6.088	43	1831138	204.050
94) Toluene	(2)	6.264	92	1520880	100.676
95) trans-1,3-Dichloropropene	(2)	6.507	75	939293	104.992

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 02:15 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 02:32 hb01996

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
96) Ethyl Methacrylate	(2)	6.641	69	952379	107.677
97) 1,1,2-Trichloroethane	(2)	6.702	97	542713	100.099
98) Tetrachloroethene	(2)	6.854	166	743284	97.825
99) 1,3-Dichloropropane	(2)	6.878	76	943282	99.457
101) 2-Hexanone	(2)	7.000	43	1331893	205.270
102) Dibromochloromethane	(2)	7.128	129	633374	107.973
104) 1,2-Dibromoethane	(2)	7.231	107	600466	102.625
106) *Chlorobenzene-d5	(2)	7.718	117	854034	50.000
107) Chlorobenzene	(2)	7.742	112	1712362	99.217
108) 1,1,1,2-Tetrachloroethane	(2)	7.834	131	611143	104.182
109) Ethylbenzene	(2)	7.870	91	2922486	100.180
110) m+p-Xylene	(2)	7.980	106	2400553	202.734
112) Xylene (Total)	(2)		106	3584732	304.517
113) o-Xylene	(2)	8.332	106	1184179	101.783
114) Styrene	(2)	8.345	104	1954226	106.585
115) Bromoform	(2)	8.485	173	491970	114.373
116) Isopropylbenzene	(2)	8.655	105	3036191	102.361
118) Cyclohexanone	(4)	8.710	55	393766	1239.074
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	871956	101.514
124) trans-1,4-Dichloro-2-Butene	(3)	8.941	53	704375	251.675
121) Bromobenzene	(3)	8.880	156	807875	99.058
123) 1,2,3-Trichloropropane	(3)	8.923	110	271792	99.039
125) n-Propylbenzene	(3)	8.989	91	3593629	99.754
126) 2-Chlorotoluene	(3)	9.044	126	748136	98.326
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	2695354	101.128
128) 4-Chlorotoluene	(3)	9.129	126	774451	99.300
130) tert-Butylbenzene	(3)	9.379	134	637346	101.131
131) Pentachloroethane	(3)	9.385	167	518888	113.378
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	2758410	100.489
133) sec-Butylbenzene	(3)	9.543	105	3486794	103.041
135) p-Isopropyltoluene	(3)	9.653	119	3134227	102.168
134) 1,3-Dichlorobenzene	(3)	9.610	146	1562807	97.879
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	544248	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	1628174	97.949

* = Compound is an internal standard.

PTLB4 8200

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 02:15 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 02:32 hb01996

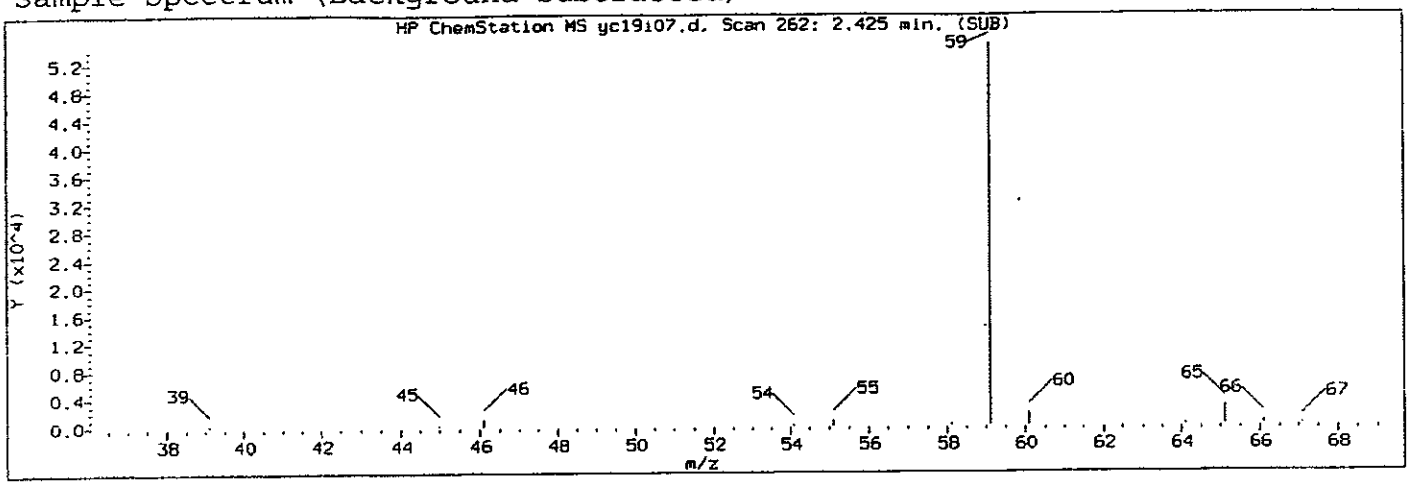
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
139) 1,2,3-Trimethylbenzene	(3)	9.720	105	2931833	103.671
141) Benzyl Chloride	(3)	9.780	91	1966882	109.874
142) 1,3-Diethylbenzene	(3)	9.872	119	1905428	105.815
143) 1,4-Diethylbenzene	(3)	9.926	119	1920784	105.540
145) n-Butylbenzene	(3)	9.945	92	1518625	101.210
144) 1,2-Dichlorobenzene	(3)	9.945	146	1583387	100.201
146) 1,2-Diethylbenzene	(3)	10.011	119	1565217	103.961
148) 1,2-Dibromo-3-Chloropropane	(3)	10.480	75	192710	103.030
149) 1,3,5-Trichlorobenzene	(3)	10.632	180	1344415	104.687
150) 1,2,4-Trichlorobenzene	(3)	11.040	180	1264633	97.755
151) Hexachlorobutadiene	(3)	11.161	225	609083	98.856
152) Naphthalene	(3)	11.198	128	3299524	95.801
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	1169767	94.446
154) 2-Methylnaphthalene	(3)	11.922	142	1836603	81.955
52)$Dibromofluoromethane	(1)	3.898	113	576790	100.634
51)$Dibromofluoromethane(mz111)	(1)	3.898	111	584253	100.052
62)$1,2-Dichloroethane-d4	(1)	4.220	102	143938M	97.867
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.220	104	91667	99.580
92)$Toluene-d8(mz100)	(2)	6.191	100	1593337	102.349
61)$1,2-Dichloroethane-d4(mz65)	(1)	4.214	65	772479	100.868
120)$4-Bromofluorobenzene(mz174)	(2)	8.770	174	840633	101.630
93)$Toluene-d8	(2)	6.191	98	2409348	101.773
119)$4-Bromofluorobenzene	(2)	8.764	95	900070	100.887

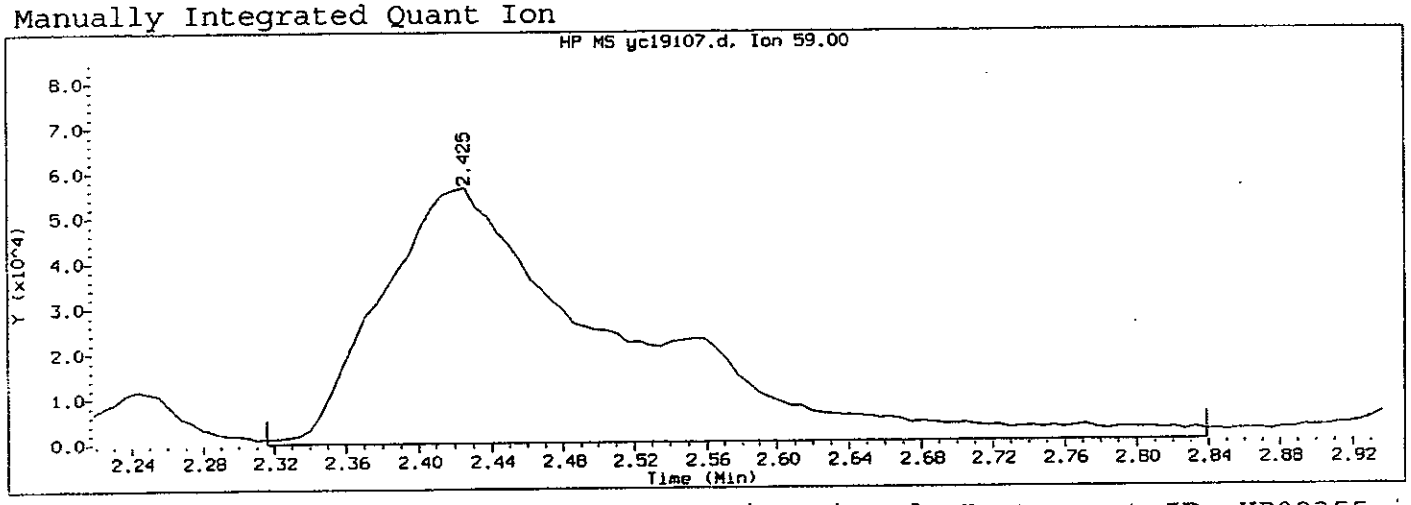
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 02:15 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 02:32
Date, time and analyst ID of latest file update: 20-Oct-2009 02:32 hb01996

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 262
Retention Time (minutes) : 2.425
Quant Ion : 59
Area (flag) : 519116 M
Concentration (ug/L) : 507.0479
Integration start scan : 243 Integration stop scan: 329
Y at integration start : 0 Y at integration end: 0

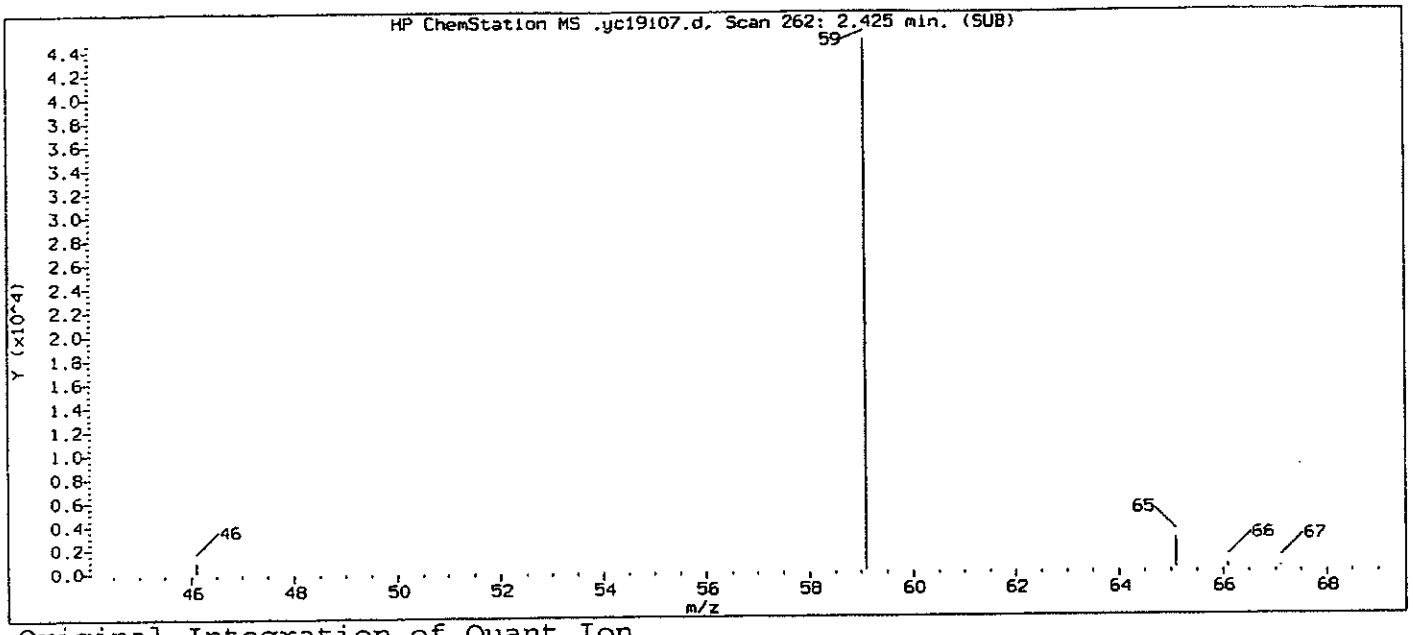
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: HB1996 10/20/09

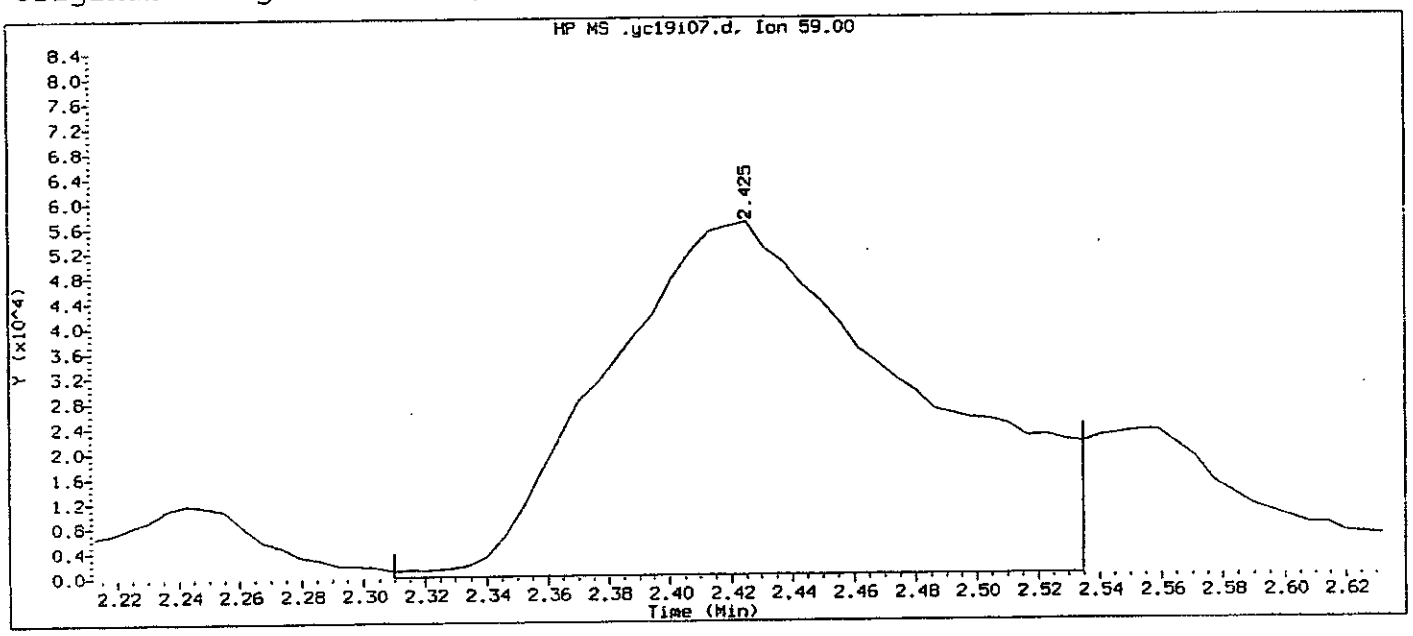
GC/MS audit/management approval: [illegible] 102009 PTL04 0202

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i07.d, generated on 10/20/2009 at 02:32

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 02:15 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 02:29
Date, time and analyst ID of latest file update: 20-Oct-2009 02:29 Automation

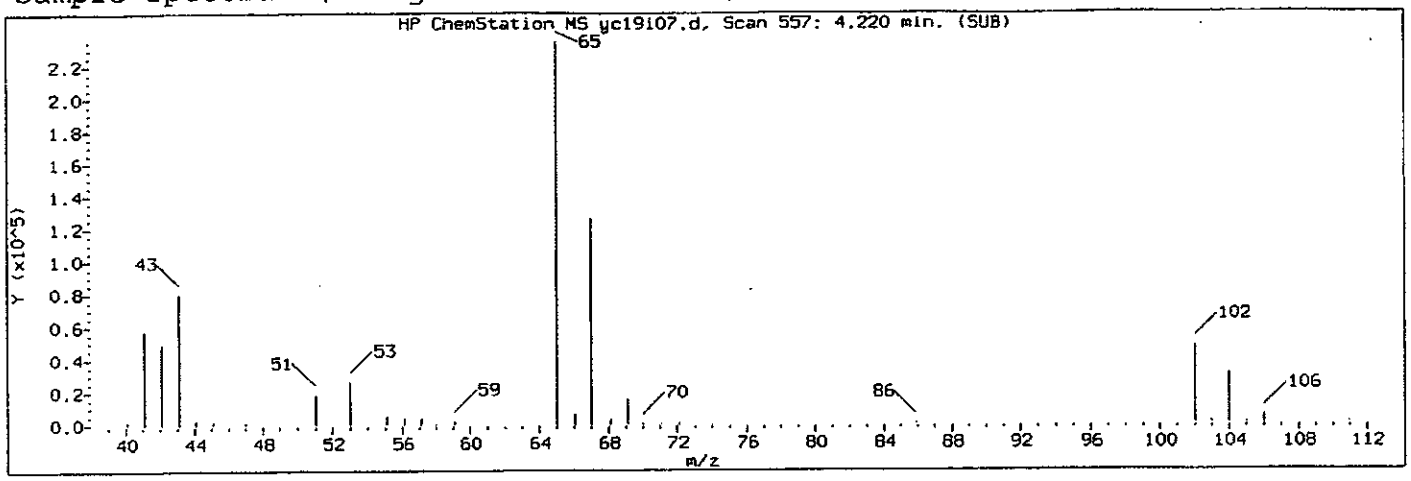
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 262
Retention Time (minutes): 2.425
Quant Ion : 59
Area : 391531
Concentration (ug/L) : 399.0027
Integration start scan : 242 Integration stop scan: 279
Y at integration start : 0 Y at integration end: 0

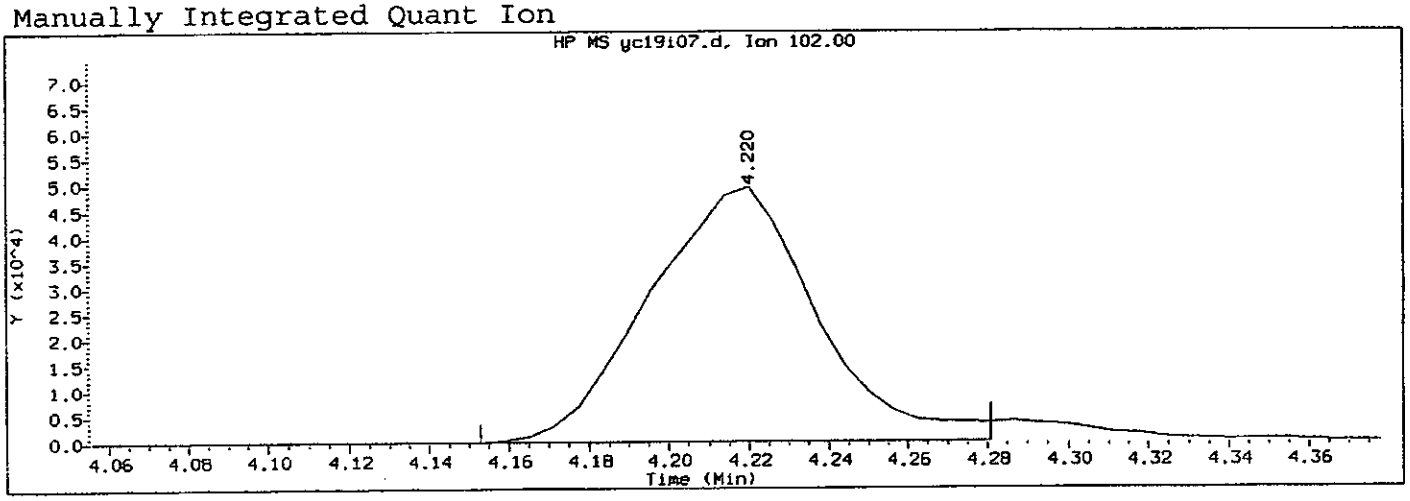
PTL04 0203

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i07.d, generated on 10/20/2009 at 02:32

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 02:15 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 02:32
Date, time and analyst ID of latest file update: 20-Oct-2009 02:32 hb01996

Sample Name: VSTD100 Lab Sample ID: VSTD100

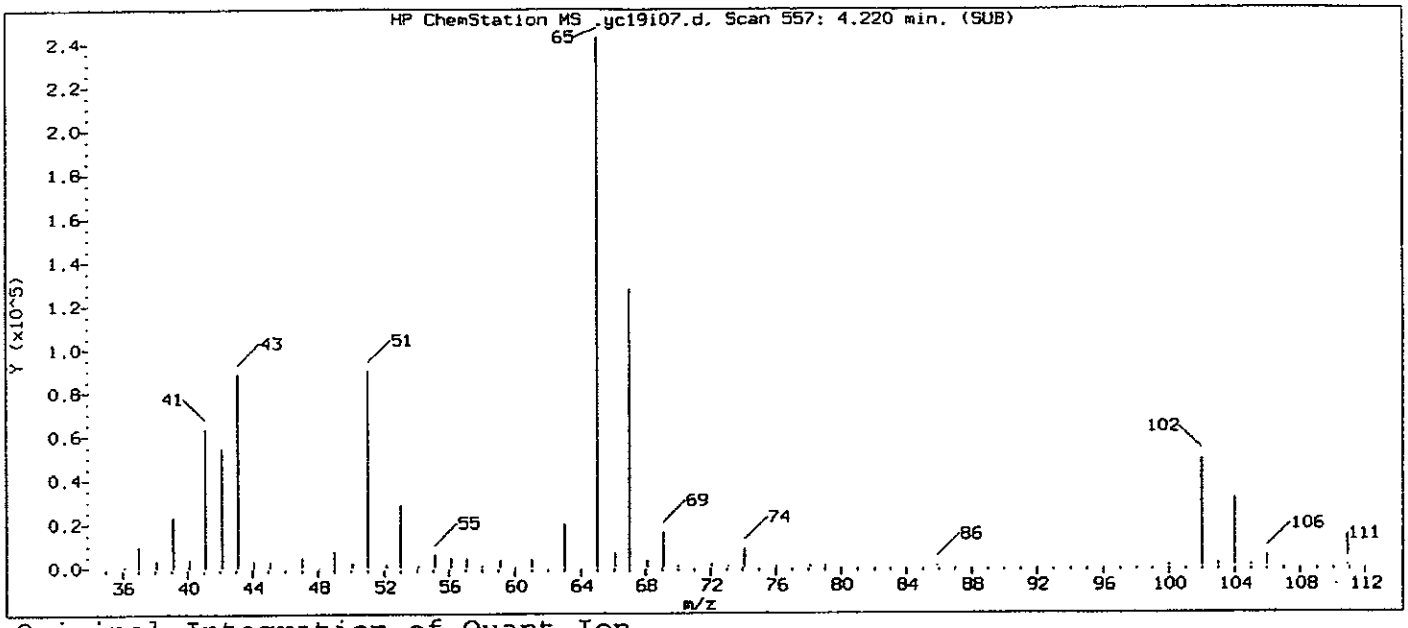
Compound Number : 62
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 557
Retention Time (minutes): 4.220
Quant Ion : 102
Area (flag) : 143938 M
Concentration (ug/L) : 97.8671
Integration start scan : 545 Integration stop scan: 566
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

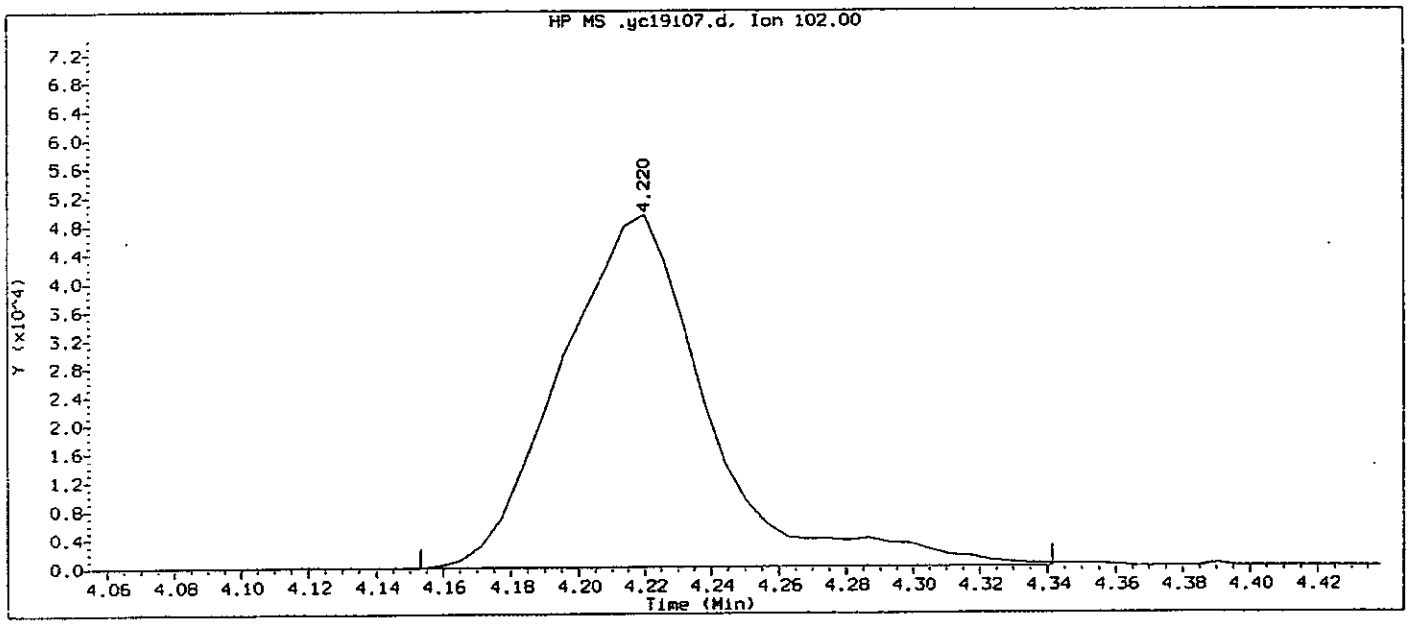
Analyst responsible for change: HB1996 10/20/09

GC/MS audit/management approval: [illegible] 10/20/09 PTL04 0204

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i07.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 02:15 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 02:29
Date, time and analyst ID of latest file update: 20-Oct-2009 02:29 Automation

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 62
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 557
Retention Time (minutes) : 4.220
Quant Ion : 102
Area : 150632
Concentration (ug/L) : 101.6478
Integration start scan : 545 Integration stop scan: 576
Y at integration start : 0 Y at integration end: 0

PTL04 0285

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i07.d, generated on 10/20/2009 at 02:32

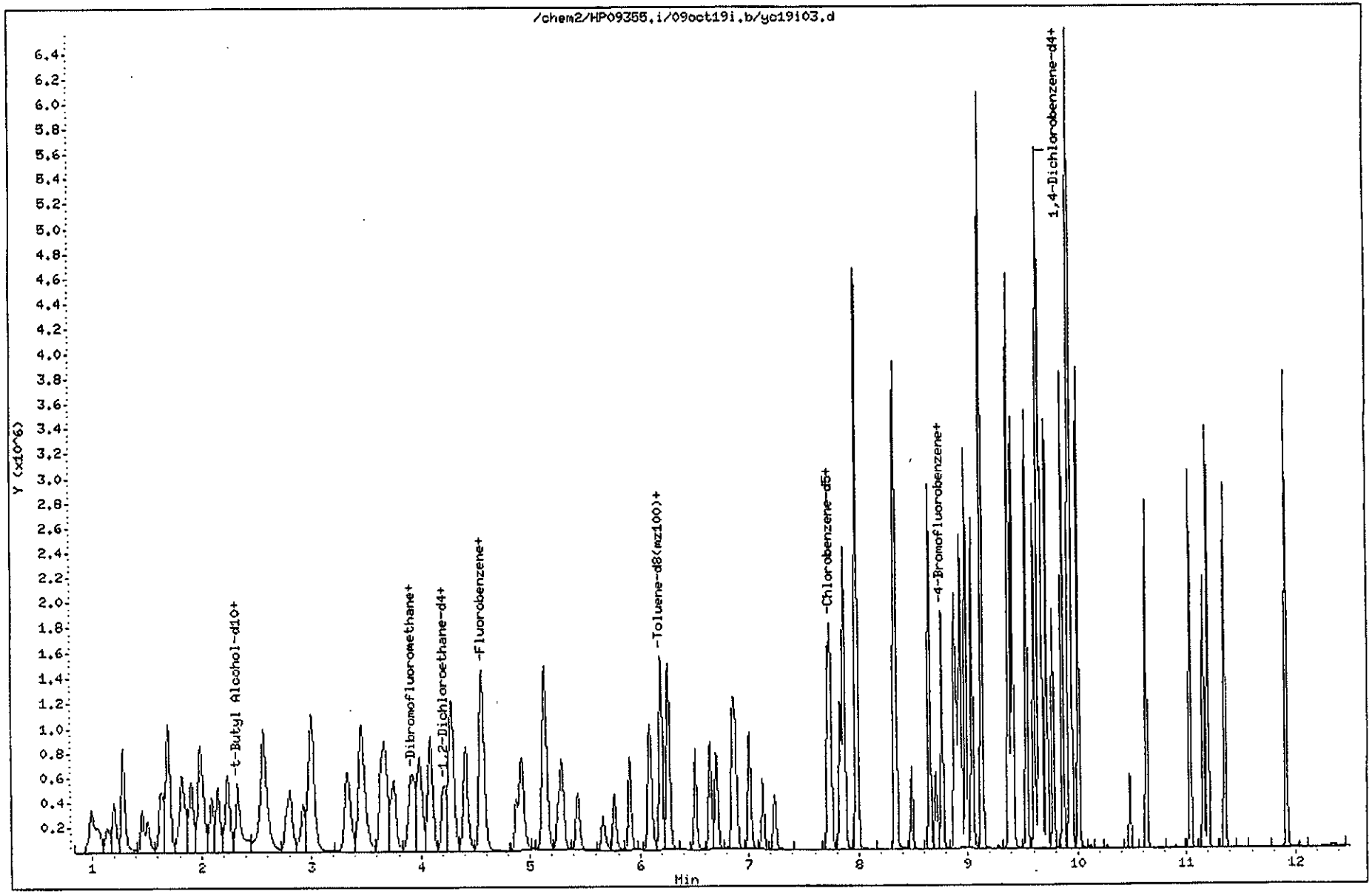
Data File: /chem2/HP09355.i/09oct19i.b/yc19i03.d
Date : 20-OCT-2009 00:17
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;1;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: MAZ02012
Column diameter: 0.18

MB986
10/20/09

FILE 0286



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i03.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:17 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.135	85	475366	54.117
3) Chloromethane	(1)	1.202	50	466436	52.560
5) Vinyl Chloride	(1)	1.287	62	453812	53.734
4) 1,3-Butadiene	(1)	1.275	39	295156	49.851
7) Bromomethane	(1)	1.458	94	284182	54.334
8) Chloroethane	(1)	1.506	64	242223	52.492
9) Dichlorofluoromethane	(1)	1.835	67	347353	50.856
10) Trichlorofluoromethane	(1)	1.652	101	516101	53.089
11) n-Pentane	(1)	1.695	43	753471	53.598
13) Ethyl Ether	(1)	1.823	59	270371	51.999
14) Freon 123a	(1)	1.835	67	347353	50.984
15) Acrolein	(4)	1.908	56	875058	425.120
16) 1,1-Dichloroethene	(1)	1.987	96	259673	51.747
18) Freon 113	(1)	2.005	101	291089	52.137
17) Acetone	(1)	2.005	58	85509	100.697
20) Methyl Iodide	(1)	2.097	142	563129	52.177
21) 2-Propanol	(4)	2.109	45	193410	263.954
22) Carbon Disulfide	(1)	2.151	76	847177	52.051
24) Allyl Chloride	(1)	2.236	41	496268	51.313
25) Methyl Acetate	(1)	2.249	43	306545	49.282
26) Methylene Chloride	(1)	2.334	84	312533	52.848
28)*t-Butyl Alcohol-d10	(4)	2.358	65	213627	250.000
29) t-Butyl Alcohol	(4)	2.431	59	297122M	260.925
30) Acrylonitrile	(1)	2.529	53	169998	49.583
31) trans-1,2-Dichloroethene	(1)	2.565	96	294728	51.241
32) Methyl Tertiary Butyl Ether	(1)	2.571	73	1067120	52.816
33) n-Hexane	(1)	2.802	57	466305	51.288
45) 1,2-Dichloroethene (total)	(1)		96	620027	103.174
34) 1,1-Dichloroethane	(1)	2.924	63	556095	52.060
36) di-Isopropyl Ether	(1)	2.997	45	1097532	51.896
37) 2-Chloro-1,3-Butadiene	(1)	3.009	53	493421	51.820
39) Ethyl t-Butyl Ether	(1)	3.325	59	1074171	52.455
40) cis-1,2-Dichloroethene	(1)	3.453	96	325299	51.934
41) 2-Butanone	(1)	3.435	43	456807	97.962

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL84 8287

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i03.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:17 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) 2,2-Dichloropropane	(1)	3.459	77	471356	52.265
43) Propionitrile	(4)	3.490	54	323909	241.430
46) Methacrylonitrile	(1)	3.636	67	424236	130.218
47) Bromochloromethane	(1)	3.672	128	172218	51.715
48) Tetrahydrofuran	(4)	3.697	71	115789	85.467
50) Chloroform	(1)	3.751	83	527923	51.965
53) 1,1,1-Trichloroethane	(1)	3.934	97	511001	50.420
56) Cyclohexane	(1)	3.989	56	569241	51.534
54) Cyclohexane (mz 84)	(1)	3.989	84	475896	51.552
55) Cyclohexane (mz 69)	(1)	3.995	69	170426	51.888
57) 1,1-Dichloropropene	(1)	4.080	75	415929	51.653
58) Carbon Tetrachloride	(1)	4.092	117	405275	51.868
59) Isobutyl Alcohol	(4)	4.201	41	215732	624.713
63) Benzene	(1)	4.281	78	1236167	51.556
65) 1,2-Dichloroethane	(1)	4.293	62	459478	51.917
64) 1,2-Dichloroethane (mz 98)	(1)	4.287	98	39922	52.548
69) t-Amyl Methyl Ether	(1)	4.414	73	1007057	52.152
72) n-Heptane	(1)	4.566	43	531690	50.428
71) *Fluorobenzene	(1)	4.554	96	1143665	50.000
73) n-Butanol	(4)	4.871	56	388007	1301.112
74) Trichloroethene	(1)	4.919	95	314359	51.022
77) 1,2-Dichloropropane	(1)	5.144	63	329427	51.790
75) Methylcyclohexane (mz98)	(1)	5.132	98	261648	50.834
76) Methylcyclohexane	(1)	5.126	83	566590	51.150
80) Methyl Methacrylate	(1)	5.284	69	275889	53.211
78) Dibromomethane	(1)	5.254	93	206522	52.409
79) 1,4-Dioxane	(4)	5.284	88	76633	778.558
83) Bromodichloromethane	(1)	5.430	83	395134	52.467
85) 2-Nitropropane	(1)	5.662	41	210850	97.115
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	226897	50.982
87) cis-1,3-Dichloropropene	(1)	5.905	75	509978	52.245
89) 4-Methyl-2-Pentanone	(1)	6.087	43	1002423	98.286
94) Toluene	(2)	6.264	92	796237	51.205
95) trans-1,3-Dichloropropene	(2)	6.513	75	494962	52.612

* = Compound is an internal standard.

PTL84 6200

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i03.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:17 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
96) Ethyl Methacrylate	(2)	6.647	69	498514	53.073
97) 1,1,2-Trichloroethane	(2)	6.702	97	290697	52.096
98) Tetrachloroethene	(2)	6.860	166	393987	50.646
99) 1,3-Dichloropropane	(2)	6.884	76	508297	51.983
101) 2-Hexanone	(2)	7.006	43	733164	98.118
102) Dibromochloromethane	(2)	7.128	129	329331	52.669
104) 1,2-Dibromoethane	(2)	7.237	107	318928	52.460
106) *Chlorobenzene-d5	(2)	7.718	117	871564	50.000
107) Chlorobenzene	(2)	7.748	112	909502	51.324
108) 1,1,1,2-Tetrachloroethane	(2)	7.833	131	321677	52.281
109) Ethylbenzene	(2)	7.870	91	1539202	51.516
110) m+p-Xylene	(2)	7.979	106	1257171	102.847
112) Xylene (Total)	(2)		106	1877358	154.226
113) o-Xylene	(2)	8.332	106	620187	51.380
114) Styrene	(2)	8.344	104	1015455	52.352
115) Bromoform	(2)	8.484	173	246450	52.875
116) Isopropylbenzene	(2)	8.655	105	1567174	51.195
118) Cyclohexanone	(4)	8.709	55	266141	740.112
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	461367	52.791
124) trans-1,4-Dichloro-2-Butene	(3)	8.941	53	374675	130.864
121) Bromobenzene	(3)	8.880	156	429860	51.715
123) 1,2,3-Trichloropropane	(3)	8.922	110	145366	52.482
125) n-Propylbenzene	(3)	8.989	91	1878109	51.722
126) 2-Chlorotoluene	(3)	9.044	126	394627	51.290
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	1405720	51.710
128) 4-Chlorotoluene	(3)	9.129	126	413105	52.363
130) tert-Butylbenzene	(3)	9.379	134	327920	51.319
131) Pentachloroethane	(3)	9.385	167	250740	53.523
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	1443508	51.640
133) sec-Butylbenzene	(3)	9.543	105	1787255	51.909
135) p-Isopropyltoluene	(3)	9.652	119	1609912	51.688
134) 1,3-Dichlorobenzene	(3)	9.610	146	830562	51.421
136) *1,4-Dichlorobenzene-d4	(3)	9.658	152	546439	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	861561	51.227

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i03.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:17 Analyst ID: MAZ02012

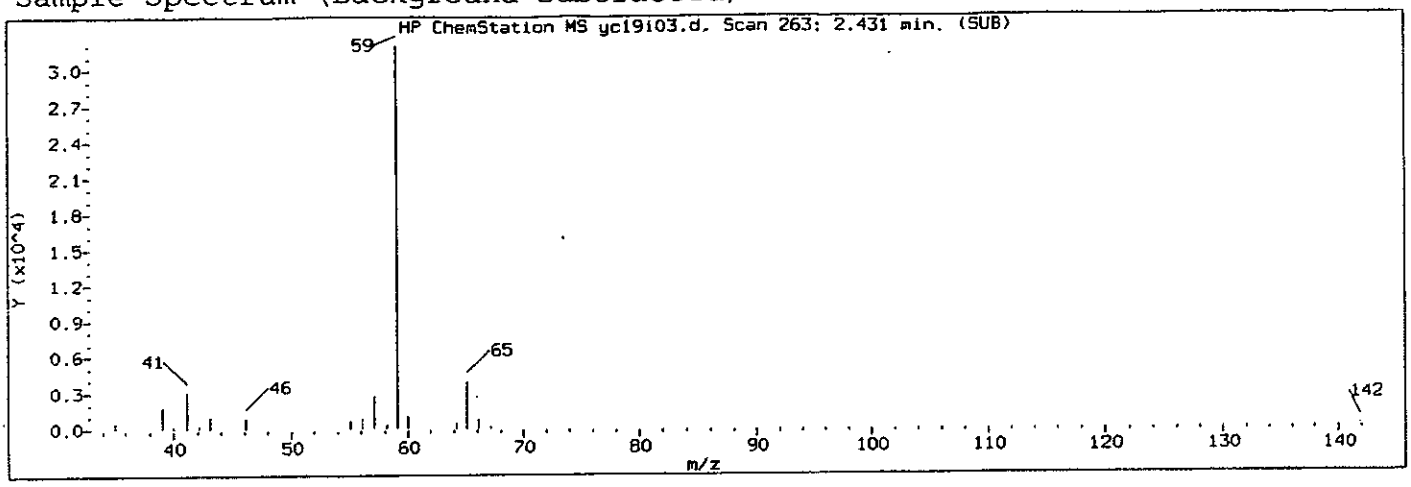
Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD050 Lab Sample ID: VSTD050

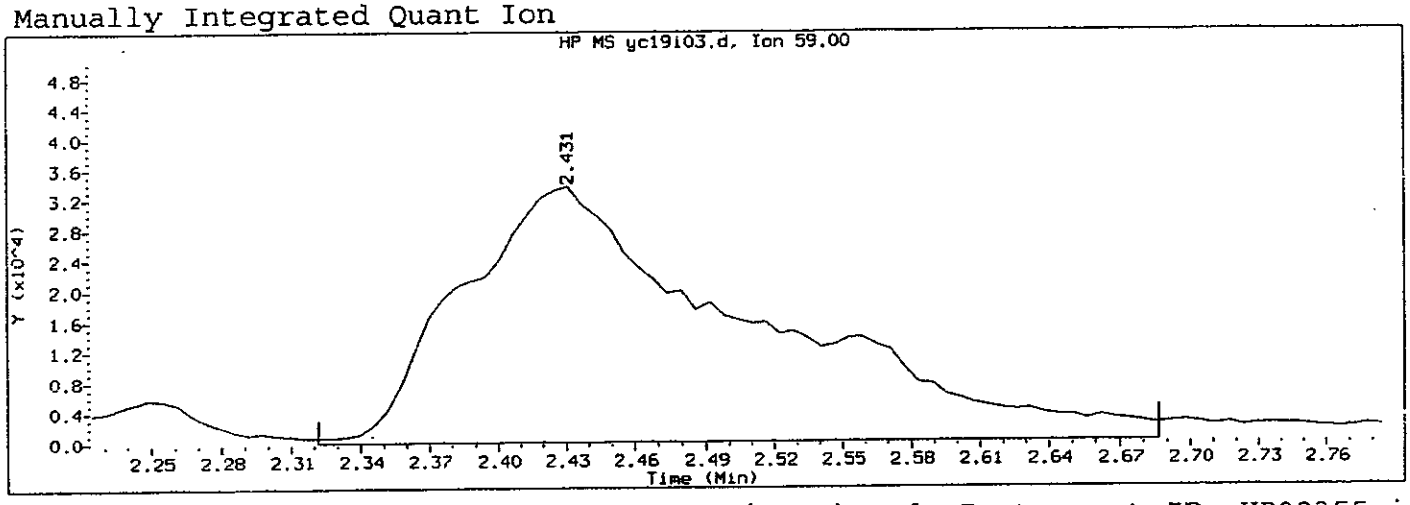
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
139) 1,2,3-Trimethylbenzene	(3)	9.719	105	1470207	51.490
141) Benzyl Chloride	(3)	9.780	91	1016544	53.769
142) 1,3-Diethylbenzene	(3)	9.871	119	923206	50.882
143) 1,4-Diethylbenzene	(3)	9.926	119	938457	51.287
145) n-Butylbenzene	(3)	9.944	92	778652	51.308
144) 1,2-Dichlorobenzene	(3)	9.944	146	843199	52.768
146) 1,2-Diethylbenzene	(3)	10.011	119	776170	51.322
148) 1,2-Dibromo-3-Chloropropane	(3)	10.480	75	102281	53.458
149) 1,3,5-Trichlorobenzene	(3)	10.632	180	639082	50.314
150) 1,2,4-Trichlorobenzene	(3)	11.039	180	676725	51.739
151) Hexachlorobutadiene	(3)	11.161	225	315825	50.688
152) Naphthalene	(3)	11.198	128	1891844	53.859
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	653345	52.276
154) 2-Methylnaphthalene	(3)	11.922	142	1270432	54.672
52)$Dibromofluoromethane	(1)	3.903	113	323928	54.948
51)$Dibromofluoromethane(mz111)	(1)	3.903	111	330211	55.067
62)$1,2-Dichloroethane-d4	(1)	4.220	102	84870	55.385
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.220	104	52510	55.577
92)$Toluene-d8(mz100)	(2)	6.191	100	869898	54.213
61)$1,2-Dichloroethane-d4(mz65)	(1)	4.220	65	427481	54.669
120)$4-Bromofluorobenzene(mz174)	(2)	8.770	174	456088	53.634
93)$Toluene-d8	(2)	6.191	98	1319653	54.421
119)$4-Bromofluorobenzene	(2)	8.764	95	496511	54.183

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i03.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:17 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:31
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 263
Retention Time (minutes): 2.431
Quant Ion : 59
Area (flag) : 297122 M
Concentration (ug/L) : 260.9247
Integration start scan : 244 Integration stop scan: 304
Y at integration start : 0 Y at integration end: 0

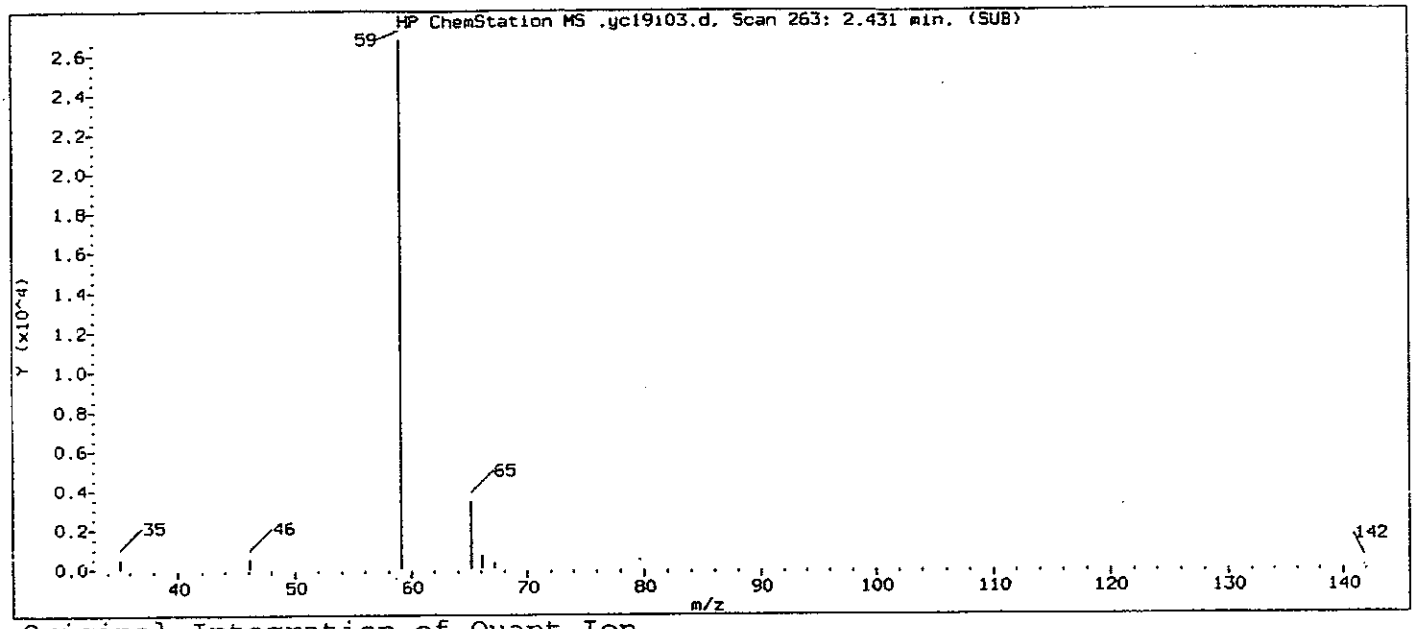
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MB 1986 10/20/09

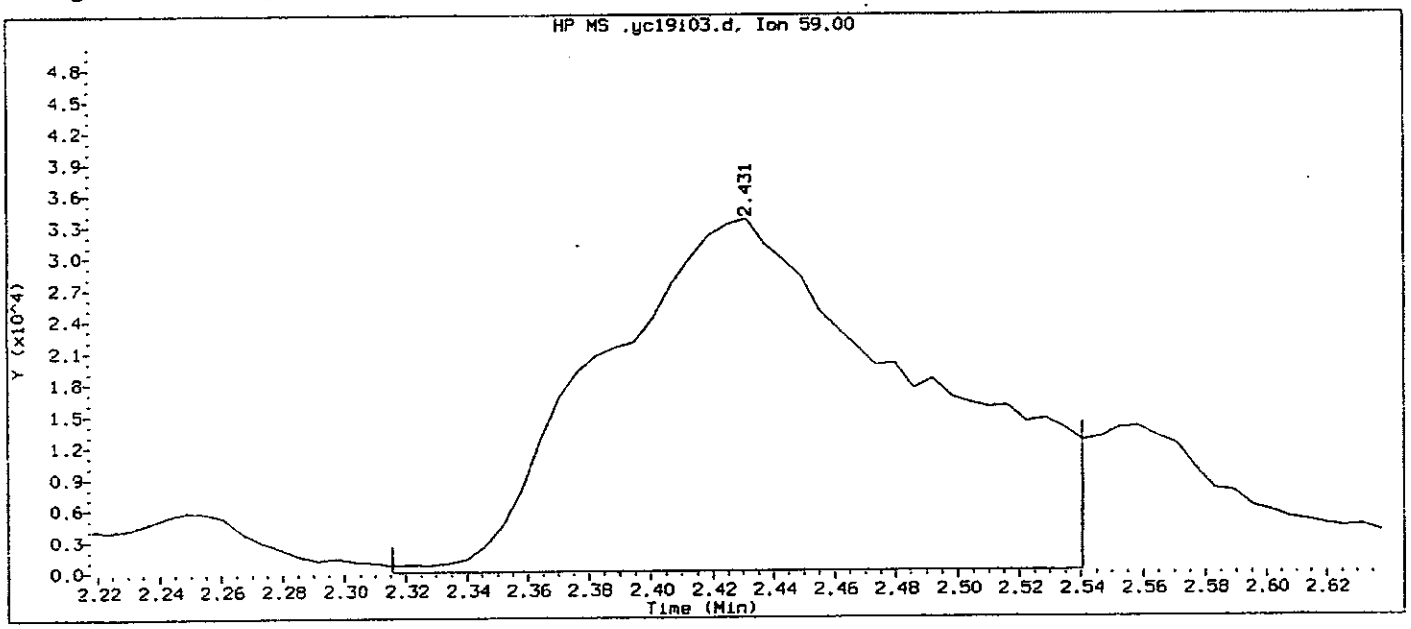
GC/MS audit/management approval: [illegible] 10/20/09 PTL84 8211

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i03.d, generated on 10/20/2009 at 01:31

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i03.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:17 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:21
Date, time and analyst ID of latest file update: 20-Oct-2009 01:21 hb01996

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 29
Compound Name : t-Butyl Alcohol
Scan Number : 263
Retention Time (minutes): 2.431
Quant Ion : 59
Area : 239602
Concentration (ug/L) : 219.5602
Integration start scan : 243 Integration stop scan: 280
Y at integration start : 0 Y at integration end: 0

PTL84 0212

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i03.d, generated on 10/20/2009 at 01:31

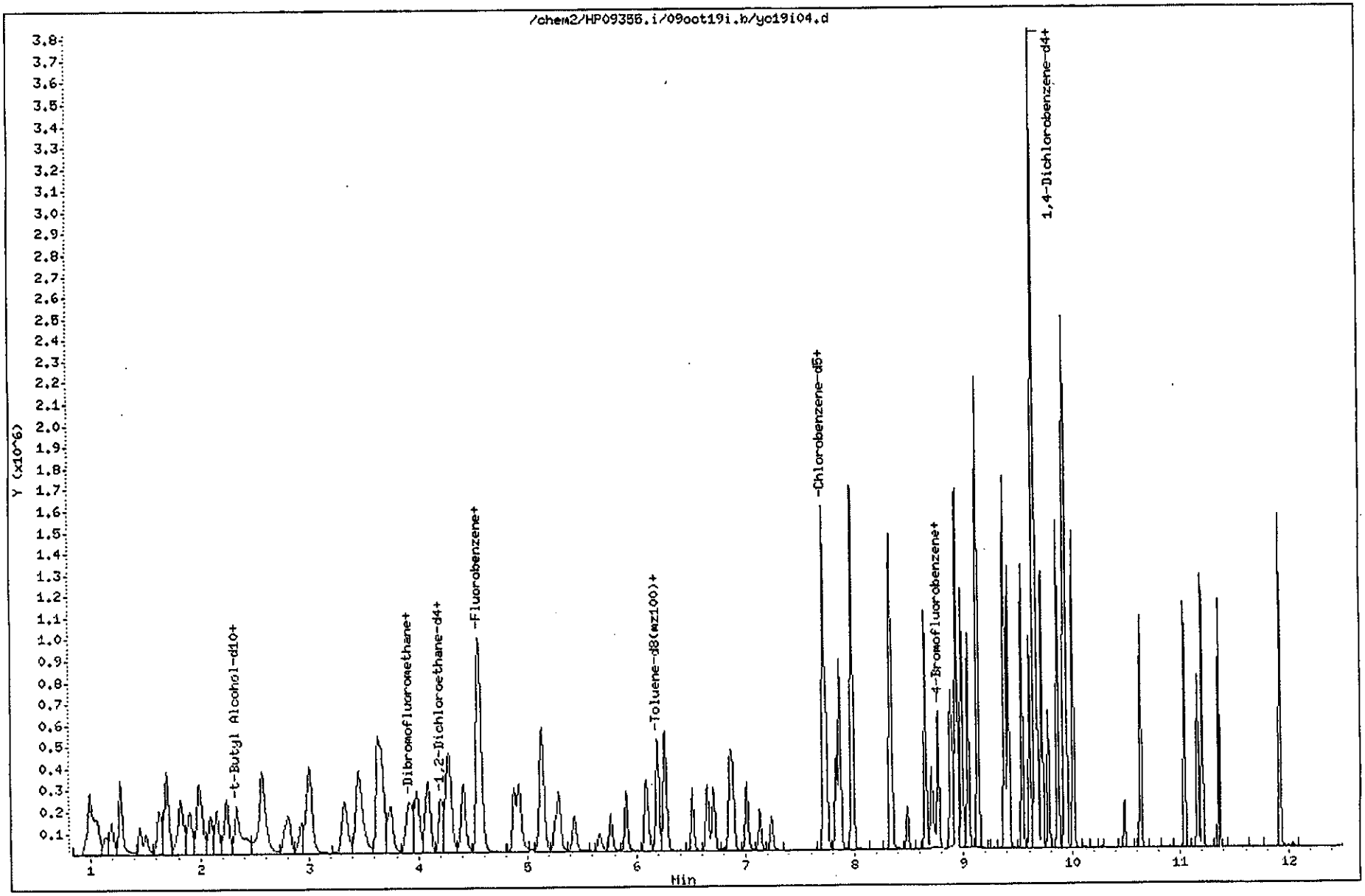
Data File: /chem2/HP09355.i/09oct19i.b/yo19i04.d
Date : 20-OCT-2009 00:38
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;1;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: MAZ02012
Column diameter: 0.18

HBKG 10/20/09

PTL# 9213



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i04.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:38 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.141	85	162984	18.653
3) Chloromethane	(1)	1.196	50	162782	18.440
5) Vinyl Chloride	(1)	1.275	62	155405	18.498
4) 1,3-Butadiene	(1)	1.275	39	115055	19.535
7) Bromomethane	(1)	1.452	94	99478	19.120
8) Chloroethane	(1)	1.506	64	85962	18.728
9) Dichlorofluoromethane	(1)	1.829	67	139877	20.588
10) Trichlorofluoromethane	(1)	1.652	101	180542	18.670
11) n-Pentane	(1)	1.695	43	280885	20.086
13) Ethyl Ether	(1)	1.823	59	104090	20.125
14) Freon 123a	(1)	1.829	67	139877	20.640
15) Acrolein	(4)	1.908	56	293229	148.208
16) 1,1-Dichloroethene	(1)	1.981	96	96358	19.304
18) Freon 113	(1)	1.999	101	109373	19.694
17) Acetone	(1)	2.011	58	29904	35.402
20) Methyl Iodide	(1)	2.097	142	212414	19.786
21) 2-Propanol	(4)	2.103	45	134454	190.903
22) Carbon Disulfide	(1)	2.151	76	310944	19.206
24) Allyl Chloride	(1)	2.236	41	200162	20.806
25) Methyl Acetate	(1)	2.249	43	121964	19.711
26) Methylene Chloride	(1)	2.328	84	113684	19.325
28) *t-Butyl Alcohol-d10	(4)	2.358	65	205336	250.000
29) t-Butyl Alcohol	(4)	2.431	59	202277	184.807
30) Acrylonitrile	(1)	2.529	53	57966	16.996
31) trans-1,2-Dichloroethene	(1)	2.559	96	110601	19.331
32) Methyl Tertiary Butyl Ether	(1)	2.571	73	396033	19.705
33) n-Hexane	(1)	2.808	57	174380	19.281
45) 1,2-Dichloroethene (total)	(1)		96	231465	38.728
34) 1,1-Dichloroethane	(1)	2.924	63	208240	19.598
36) di-Isopropyl Ether	(1)	2.997	45	415632	19.757
37) 2-Chloro-1,3-Butadiene	(1)	3.009	53	183141	19.335
39) Ethyl t-Butyl Ether	(1)	3.325	59	400615	19.667
40) cis-1,2-Dichloroethene	(1)	3.453	96	120864	19.398
41) 2-Butanone	(1)	3.435	43	154245	33.253

* = Compound is an internal standard.

PTL04 0214

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i04.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:38 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) 2,2-Dichloropropane	(1)	3.453	77	172060	19.179
43) Propionitrile	(4)	3.484	54	237306	184.021
46) Methacrylonitrile	(1)	3.630	67	313296	96.674
47) Bromochloromethane	(1)	3.672	128	66583	20.100
48) Tetrahydrofuran	(4)	3.697	71	37433	28.746
50) Chloroform	(1)	3.751	83	199297	19.721
53) 1,1,1-Trichloroethane	(1)	3.928	97	203448	20.180
56) Cyclohexane	(1)	3.989	56	213945	19.471
54) Cyclohexane (mz 84)	(1)	3.989	84	178872	19.479
55) Cyclohexane (mz 69)	(1)	3.989	69	63040	19.295
57) 1,1-Dichloropropene	(1)	4.080	75	155960	19.471
58) Carbon Tetrachloride	(1)	4.092	117	146264	18.818
59) Isobutyl Alcohol	(4)	4.201	41	155095	467.256
63) Benzene	(1)	4.281	78	462024	19.371
65) 1,2-Dichloroethane	(1)	4.287	62	174541	19.826
64) 1,2-Dichloroethane (mz 98)	(1)	4.293	98	14700	19.452
69) t-Amyl Methyl Ether	(1)	4.408	73	373119	19.425
72) n-Heptane	(1)	4.566	43	209655	19.990
71) *Fluorobenzene	(1)	4.548	96	1137644	50.000
73) n-Butanol	(4)	4.871	56	260350	908.288
74) Trichloroethene	(1)	4.919	95	118301	19.302
77) 1,2-Dichloropropane	(1)	5.138	63	122211	19.315
75) Methylcyclohexane (mz98)	(1)	5.126	98	102450	20.010
76) Methylcyclohexane	(1)	5.126	83	217699	19.757
80) Methyl Methacrylate	(1)	5.284	69	96641	18.738
78) Dibromomethane	(1)	5.254	93	76025	19.395
79) 1,4-Dioxane	(4)	5.284	88	45481	480.725
83) Bromodichloromethane	(1)	5.430	83	139777	18.658
85) 2-Nitropropane	(1)	5.662	41	63979	29.624
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	84852	19.167
87) cis-1,3-Dichloropropene	(1)	5.905	75	185325	19.086
89) 4-Methyl-2-Pentanone	(1)	6.087	43	332001M	32.724
94) Toluene	(2)	6.264	92	295898	19.210
95) trans-1,3-Dichloropropene	(2)	6.513	75	175432	18.825

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i04.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:38 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
96) Ethyl Methacrylate	(2)	6.647	69	173835	18.683
97) 1,1,2-Trichloroethane	(2)	6.702	97	107002	19.358
98) Tetrachloroethene	(2)	6.860	166	150299	19.504
99) 1,3-Dichloropropane	(2)	6.884	76	189933	19.609
101) 2-Hexanone	(2)	7.006	43	240558	32.499
102) Dibromochloromethane	(2)	7.128	129	113240	18.282
104) 1,2-Dibromoethane	(2)	7.237	107	116960	19.421
106) *Chlorobenzene-d5	(2)	7.724	117	863363	50.000
107) Chlorobenzene	(2)	7.748	112	338900	19.306
108) 1,1,1,2-Tetrachloroethane	(2)	7.839	131	114774	18.831
109) Ethylbenzene	(2)	7.870	91	568412	19.205
110) m+p-Xylene	(2)	7.985	106	463250	38.258
112) Xylene (Total)	(2)		106	689747	57.200
113) o-Xylene	(2)	8.332	106	226497	18.942
114) Styrene	(2)	8.344	104	356172	18.537
115) Bromoform	(2)	8.484	173	80396	17.413
116) Isopropylbenzene	(2)	8.655	105	578946	19.092
118) Cyclohexanone	(4)	8.709	55	150562	435.604
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	167299	19.315
124) trans-1,4-Dichloro-2-Butene	(3)	8.941	53	276783	97.544
121) Bromobenzene	(3)	8.880	156	158221	19.207
123) 1,2,3-Trichloropropane	(3)	8.922	110	54270	19.770
125) n-Propylbenzene	(3)	8.989	91	700147	19.455
126) 2-Chlorotoluene	(3)	9.044	126	146996	19.277
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	514059	19.080
128) 4-Chlorotoluene	(3)	9.129	126	148811	19.033
130) tert-Butylbenzene	(3)	9.379	134	121226	19.143
131) Pentachloroethane	(3)	9.385	167	87311	18.805
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	532034	19.204
133) sec-Butylbenzene	(3)	9.543	105	655057	19.197
135) p-Isopropyltoluene	(3)	9.652	119	592619	19.198
134) 1,3-Dichlorobenzene	(3)	9.610	146	306486	19.146
136) *1,4-Dichlorobenzene-d4	(3)	9.658	152	541559	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	322955	19.375

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i04.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:38 Analyst ID: MAZ02012

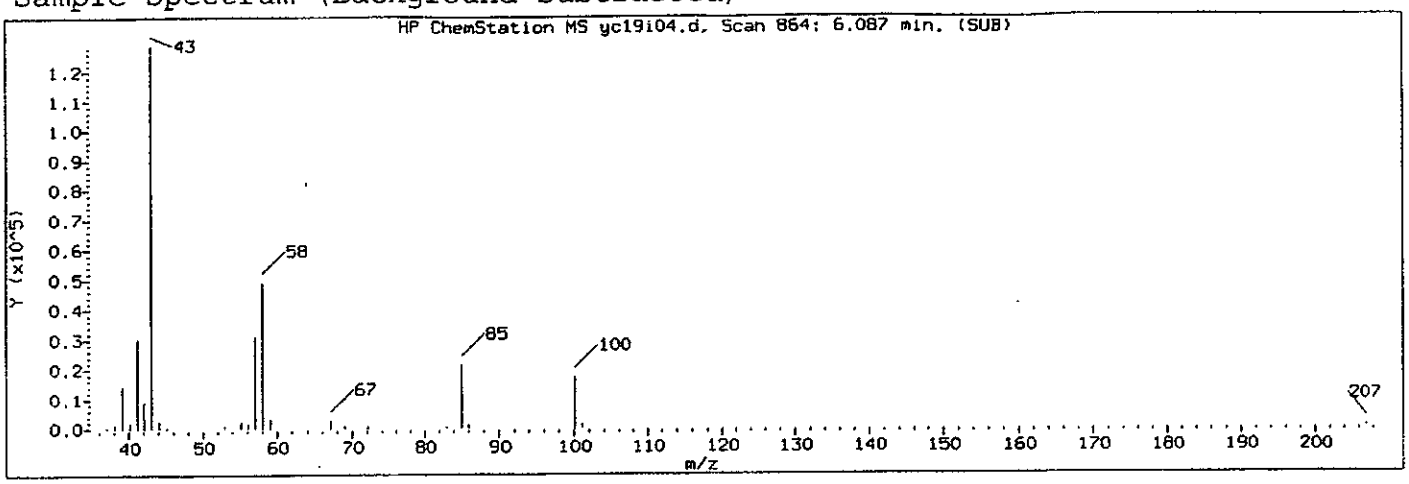
Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD020 Lab Sample ID: VSTD020

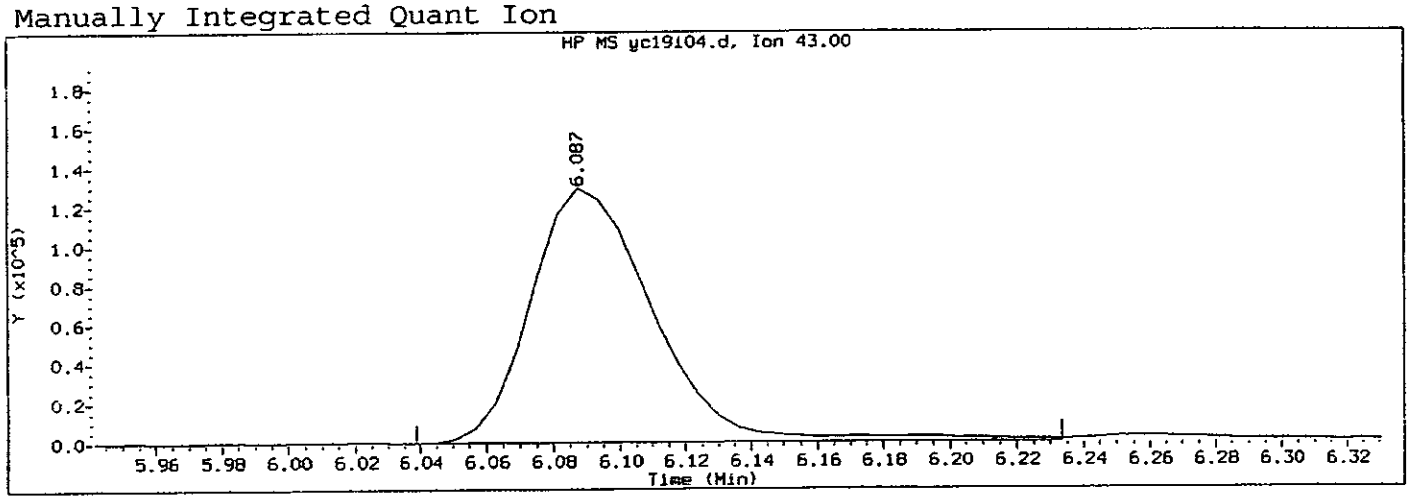
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
139) 1,2,3-Trimethylbenzene	(3)	9.725	105	564129	19.935
141) Benzyl Chloride	(3)	9.780	91	342408	18.275
142) 1,3-Diethylbenzene	(3)	9.871	119	356157	19.806
143) 1,4-Diethylbenzene	(3)	9.932	119	359098	19.802
145) n-Butylbenzene	(3)	9.944	92	290761	19.332
144) 1,2-Dichlorobenzene	(3)	9.944	146	311723	19.684
146) 1,2-Diethylbenzene	(3)	10.011	119	295715	19.730
148) 1,2-Dibromo-3-Chloropropane	(3)	10.486	75	35890	18.927
149) 1,3,5-Trichlorobenzene	(3)	10.632	180	249489	19.819
150) 1,2,4-Trichlorobenzene	(3)	11.039	180	256714	19.804
151) Hexachlorobutadiene	(3)	11.161	225	121178	19.624
152) Naphthalene	(3)	11.198	128	699976	20.107
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	246915	19.934
154) 2-Methylnaphthalene	(3)	11.922	142	496670	21.567
52)$Dibromofluoromethane	(1)	3.903	113	105880	18.056
51)$Dibromofluoromethane(mz111)	(1)	3.897	111	108795	18.239
62)$1,2-Dichloroethane-d4	(1)	4.208	102	27781	18.225
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.220	104	16538	17.596
92)$Toluene-d8(mz100)	(2)	6.191	100	286085	17.998
61)$1,2-Dichloroethane-d4(mz65)	(1)	4.214	65	141922	18.246
120)$4-Bromofluorobenzene(mz174)	(2)	8.770	174	150527	17.869
93)$Toluene-d8	(2)	6.191	98	429717	17.889
119)$4-Bromofluorobenzene	(2)	8.770	95	162734	17.928

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i04.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:38 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:31
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 89
Compound Name : 4-Methyl-2-Pentanone
Scan Number : 864
Retention Time (minutes): 6.087
Quant Ion : 43
Area (flag) : 332001 M
Concentration (ug/L) : 32.7245
Integration start scan : 855 Integration stop scan: 887
Y at integration start : 0 Y at integration end: 0

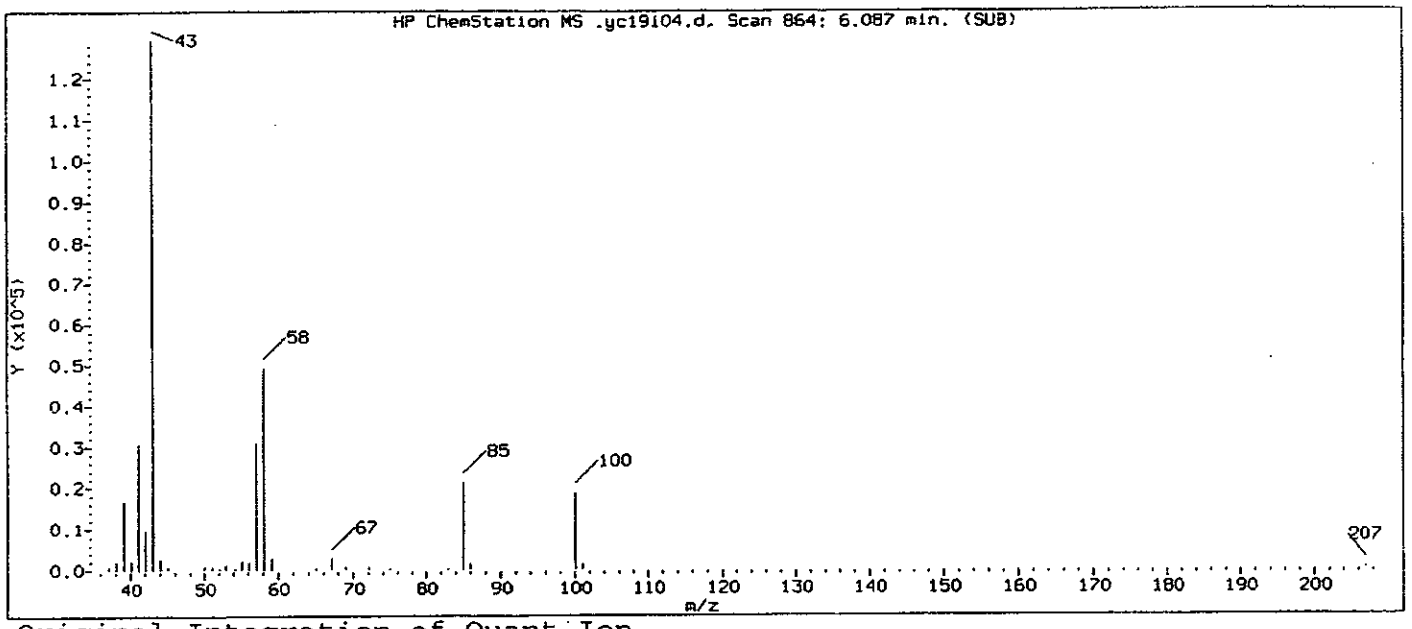
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: HB1996 10/20/09

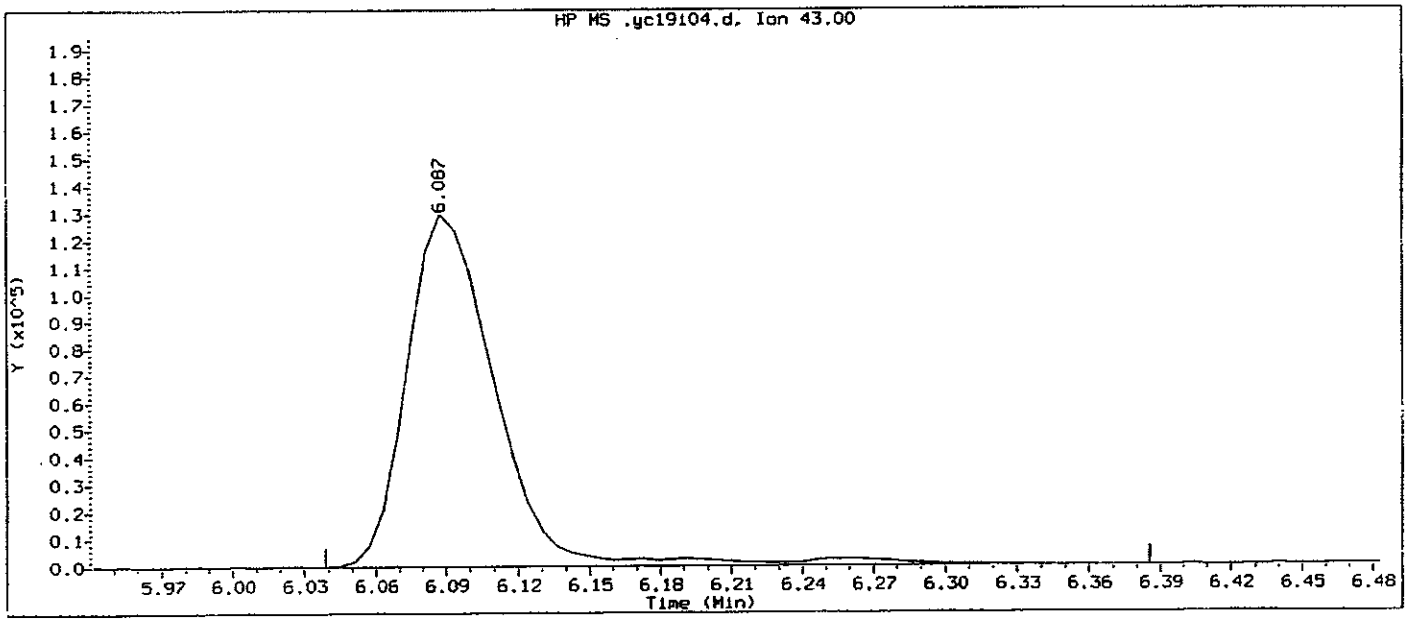
GC/MS audit/management approval: AMM/KCW 10 2009 PTL64 0210

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i04.d, generated on 10/20/2009 at 01:31

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i04.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:38 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:21
Date, time and analyst ID of latest file update: 20-Oct-2009 01:21 hb01996

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 89
Compound Name : 4-Methyl-2-Pentanone
Scan Number : 864
Retention Time (minutes) : 6.087
Quant Ion : 43
Area : 340121
Concentration (ug/L) : 32.9980
Integration start scan : 855 Integration stop scan: 912
Y at integration start : 0 Y at integration end: 0

PTL04 0219

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i04.d, generated on 10/20/2009 at 01:31

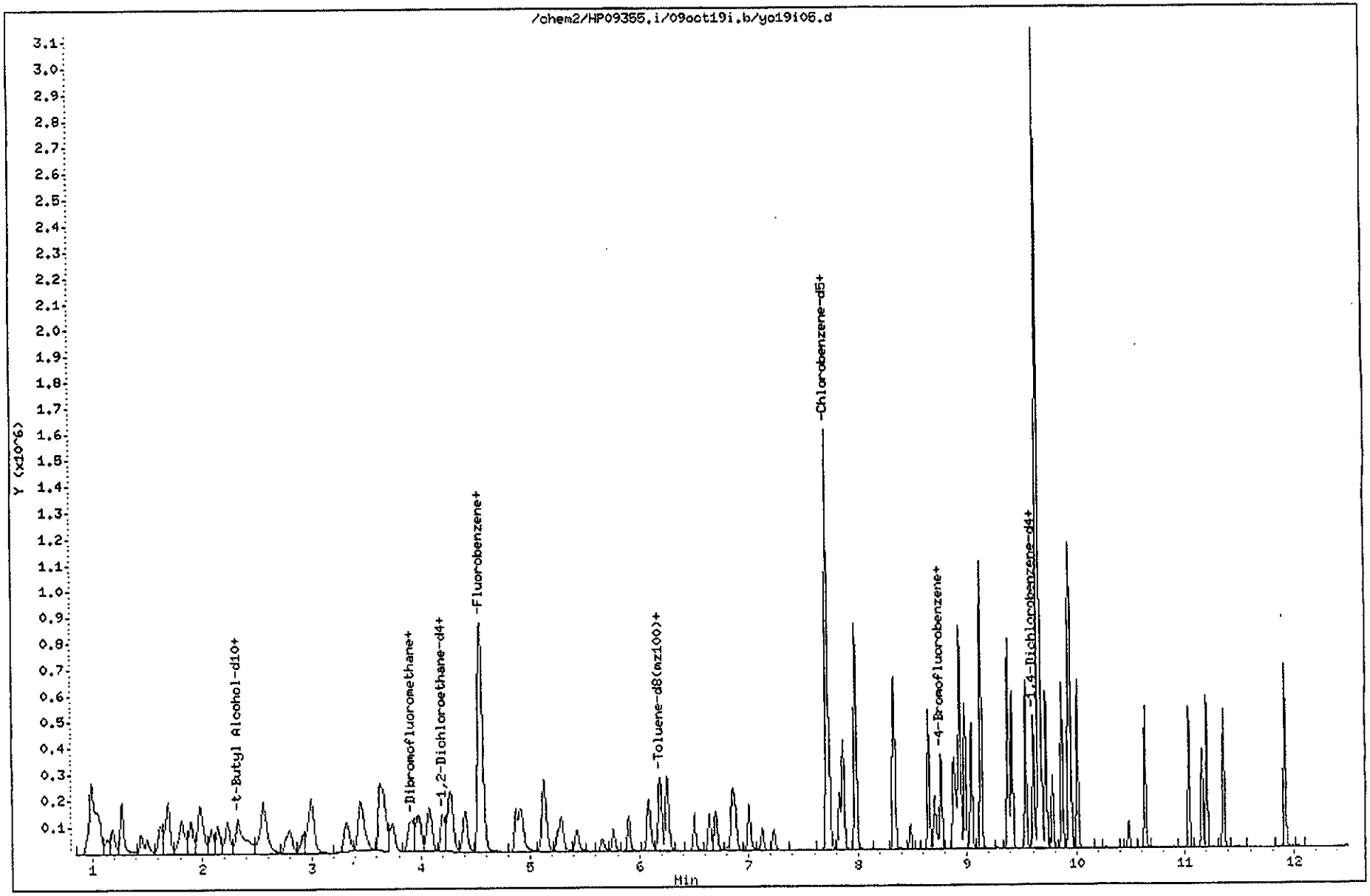
Data File: /chem2/HP09355.i/09oct19i.b/yc19i05.d
Date : 20-OCT-2009 00:59
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;1;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: HAZ02012
Column diameter: 0.18

YBCR 10/20/09

PTL8 B228



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i05.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:59 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.129	85	87342	10.335
3) Chloromethane	(1)	1.184	50	88355	10.349
5) Vinyl Chloride	(1)	1.263	62	83245	10.245
4) 1,3-Butadiene	(1)	1.269	39	62778	11.021
7) Bromomethane	(1)	1.446	94	53490	10.630
8) Chloroethane	(1)	1.500	64	46768	10.535
9) Dichlorofluoromethane	(1)	1.823	67	67249	10.234
10) Trichlorofluoromethane	(1)	1.653	101	98136	10.493
11) n-Pentane	(1)	1.689	43	135083	9.988
13) Ethyl Ether	(1)	1.817	59	49570	9.909
14) Freon 123a	(1)	1.823	67	67249	10.260
15) Acrolein	(4)	1.902	56	172622	89.347
16) 1,1-Dichloroethene	(1)	1.981	96	50789	10.520
18) Freon 113	(1)	1.999	101	54150	10.081
17) Acetone	(1)	2.005	58	16882	20.664
20) Methyl Iodide	(1)	2.091	142	104332	10.048
21) 2-Propanol	(4)	2.103	45	77685	112.952
22) Carbon Disulfide	(1)	2.145	76	156231	9.977
24) Allyl Chloride	(1)	2.231	41	90783	9.757
25) Methyl Acetate	(1)	2.243	43	58129	9.714
26) Methylene Chloride	(1)	2.328	84	56231	9.883
28)*t-Butyl Alcohol-d10	(4)	2.352	65	200515	250.000
29) t-Butyl Alcohol	(4)	2.425	59	106767	99.891
30) Acrylonitrile	(1)	2.523	53	32795	9.943
31) trans-1,2-Dichloroethene	(1)	2.559	96	56233	10.162
32) Methyl Tertiary Butyl Ether	(1)	2.565	73	188040	9.674
33) n-Hexane	(1)	2.802	57	84262	9.633
45) 1,2-Dichloroethene (total)	(1)		96	115782	20.044
34) 1,1-Dichloroethane	(1)	2.918	63	101444	9.871
36) di-Isopropyl Ether	(1)	2.991	45	203320	9.993
37) 2-Chloro-1,3-Butadiene	(1)	3.003	53	89852	9.808
39) Ethyl t-Butyl Ether	(1)	3.319	59	190603	9.675
40) cis-1,2-Dichloroethene	(1)	3.447	96	59549	9.882
41) 2-Butanone	(1)	3.429	43	90457	20.163

* = Compound is an internal standard.

PTL04 0221

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i05.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:59 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) 2,2-Dichloropropane	(1)	3.453	77	84704	9.762
43) Propionitrile	(4)	3.478	54	114079	90.591
46) Methacrylonitrile	(1)	3.630	67	149173	47.594
47) Bromochloromethane	(1)	3.666	128	30055	9.381
48) Tetrahydrofuran	(4)	3.691	71	21865	17.194
50) Chloroform	(1)	3.745	83	95391	9.760
53) 1,1,1-Trichloroethane	(1)	3.928	97	100244	10.281
56) Cyclohexane	(1)	3.983	56	104889	9.870
54) Cyclohexane (mz 84)	(1)	3.989	84	86528	9.743
55) Cyclohexane (mz 69)	(1)	3.989	69	30810	9.750
57) 1,1-Dichloropropene	(1)	4.080	75	77489	10.003
58) Carbon Tetrachloride	(1)	4.086	117	72321	9.621
59) Isobutyl Alcohol	(4)	4.202	41	82362	254.098
63) Benzene	(1)	4.269	78	229783	9.961
65) 1,2-Dichloroethane	(1)	4.281	62	84874	9.968
64) 1,2-Dichloroethane (mz 98)	(1)	4.287	98	6607	9.040
69) t-Amyl Methyl Ether	(1)	4.402	73	176112	9.480
72) n-Heptane	(1)	4.554	43	95597	9.424
71) *Fluorobenzene	(1)	4.548	96	1100279	50.000
73) n-Butanol	(4)	4.871	56	136108	486.259
74) Trichloroethene	(1)	4.919	95	58897	9.936
77) 1,2-Dichloropropane	(1)	5.132	63	60114	9.823
75) Methylcyclohexane (mz98)	(1)	5.126	98	44713	9.030
76) Methylcyclohexane	(1)	5.126	83	96451	9.051
80) Methyl Methacrylate	(1)	5.284	69	44884	8.998
78) Dibromomethane	(1)	5.248	93	36326	9.582
79) 1,4-Dioxane	(4)	5.278	88	23348	252.717
83) Bromodichloromethane	(1)	5.424	83	66182	9.134
85) 2-Nitropropane	(1)	5.656	41	34696	16.611
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	39815	9.299
87) cis-1,3-Dichloropropene	(1)	5.899	75	86291	9.189
89) 4-Methyl-2-Pentanone	(1)	6.088	43	187635	19.123
94) Toluene	(2)	6.258	92	146057	9.788
95) trans-1,3-Dichloropropene	(2)	6.507	75	81111	8.985

* = Compound is an internal standard.

PTL84 0222

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i05.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:59 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
96) Ethyl Methacrylate	(2)	6.641	69	78241	8.680
97) 1,1,2-Trichloroethane	(2)	6.696	97	51775	9.669
98) Tetrachloroethene	(2)	6.854	166	74411	9.968
99) 1,3-Dichloropropane	(2)	6.878	76	91340	9.735
101) 2-Hexanone	(2)	7.000	43	137140	19.126
102) Dibromochloromethane	(2)	7.128	129	51219	8.536
104) 1,2-Dibromoethane	(2)	7.231	107	54655	9.369
106) *Chlorobenzene-d5	(2)	7.718	117	836348	50.000
107) Chlorobenzene	(2)	7.742	112	167146	9.829
108) 1,1,1,2-Tetrachloroethane	(2)	7.833	131	54624	9.252
109) Ethylbenzene	(2)	7.870	91	278316	9.707
110) m+p-Xylene	(2)	7.979	106	225163	19.196
112) Xylene (Total)	(2)		106	336553	28.812
113) o-Xylene	(2)	8.332	106	111390	9.617
114) Styrene	(2)	8.345	104	163714	8.796
115) Bromoform	(2)	8.484	173	34666	7.751
116) Isopropylbenzene	(2)	8.655	105	278095	9.467
118) Cyclohexanone	(4)	8.710	55	83715	248.026
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	78402	9.357
124) trans-1,4-Dichloro-2-Butene	(3)	8.941	53	135470	49.352
121) Bromobenzene	(3)	8.880	156	76970	9.658
123) 1,2,3-Trichloropropane	(3)	8.922	110	25361	9.550
125) n-Propylbenzene	(3)	8.989	91	340718	9.787
126) 2-Chlorotoluene	(3)	9.044	126	72879	9.880
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	246504	9.458
128) 4-Chlorotoluene	(3)	9.129	126	73262	9.686
130) tert-Butylbenzene	(3)	9.379	134	57371	9.365
131) Pentachloroethane	(3)	9.385	167	35974	8.009
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	254585	9.499
133) sec-Butylbenzene	(3)	9.543	105	312590	9.469
135) p-Isopropyltoluene	(3)	9.652	119	278135	9.314
134) 1,3-Dichlorobenzene	(3)	9.610	146	151094	9.757
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	523900	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	156196	9.687

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i05.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:59 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

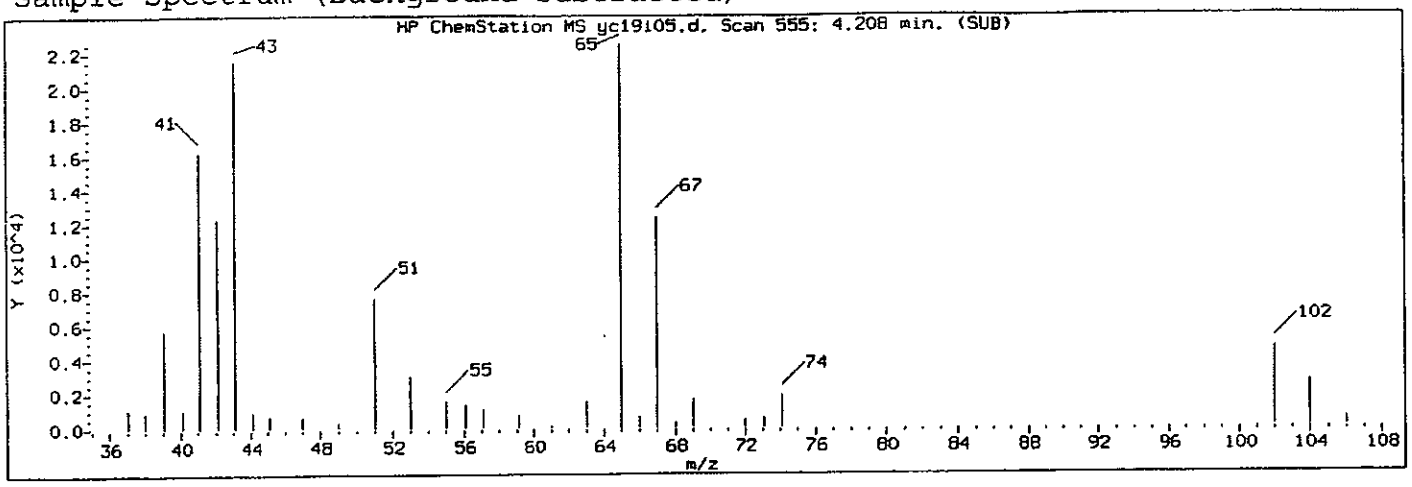
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
139) 1,2,3-Trimethylbenzene	(3)	9.719	105	250657	9.156
141) Benzyl Chloride	(3)	9.780	91	147530	8.139
142) 1,3-Diethylbenzene	(3)	9.871	119	154067	8.857
143) 1,4-Diethylbenzene	(3)	9.932	119	156340	8.912
145) n-Butylbenzene	(3)	9.944	92	135012	9.279
144) 1,2-Dichlorobenzene	(3)	9.944	146	148649	9.703
146) 1,2-Diethylbenzene	(3)	10.011	119	131115	9.043
148) 1,2-Dibromo-3-Chloropropane	(3)	10.480	75	16797	9.157
149) 1,3,5-Trichlorobenzene	(3)	10.632	180	120055	9.858
150) 1,2,4-Trichlorobenzene	(3)	11.040	180	122665	9.782
151) Hexachlorobutadiene	(3)	11.161	225	55670	9.319
152) Naphthalene	(3)	11.198	128	324972	9.650
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	118085	9.855
154) 2-Methylnaphthalene	(3)	11.922	142	222113	9.970
52)$Dibromofluoromethane	(1)	3.897	113	57227	10.090
51)$Dibromofluoromethane(mz111)	(1)	3.897	111	57110	9.899
62)$1,2-Dichloroethane-d4	(1)	4.208	102	15100M	10.243
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.220	104	9197	10.118
92)$Toluene-d8(mz100)	(2)	6.191	100	153494	9.969
61)$1,2-Dichloroethane-d4(mz65)	(1)	4.208	65	77536	10.307
120)$4-Bromofluorobenzene(mz174)	(2)	8.770	174	82269	10.082
93)$Toluene-d8	(2)	6.185	98	233279	10.025
119)$4-Bromofluorobenzene	(2)	8.764	95	89826	10.215

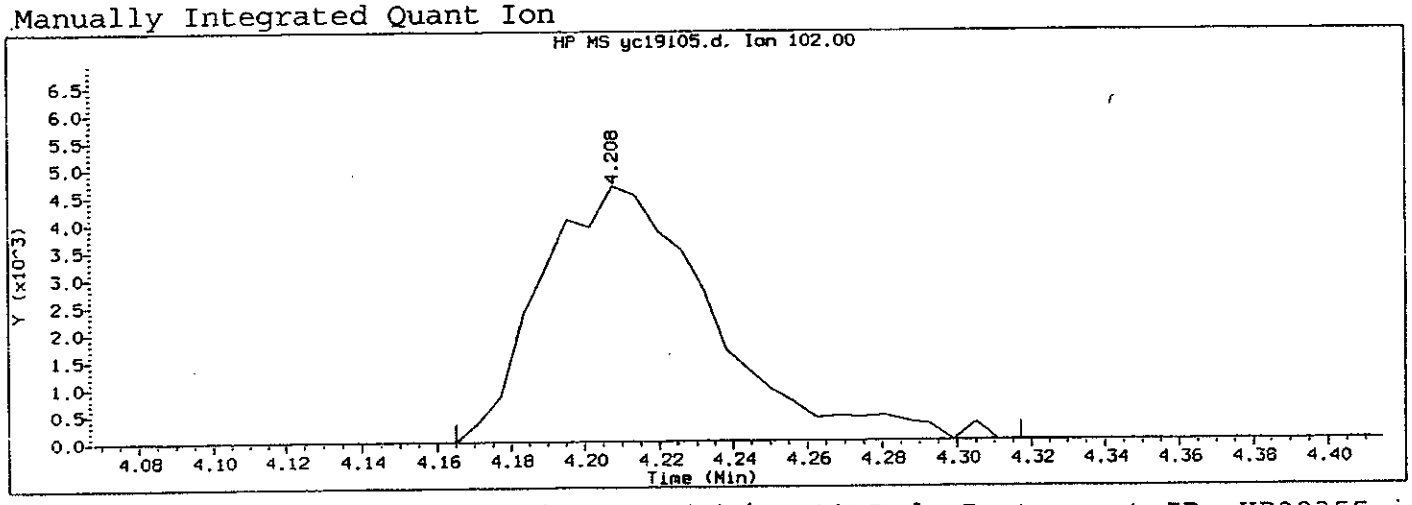
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i05.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:59 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:31
Date, time and analyst ID of latest file update: 20-Oct-2009 01:31 hb01996

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 62
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 555
Retention Time (minutes): 4.208
Quant Ion : 102
Area (flag) : 15100 M
Concentration (ug/L) : 10.2426
Integration start scan : 547 Integration stop scan: 572
Y at integration start : 0 Y at integration end: 0

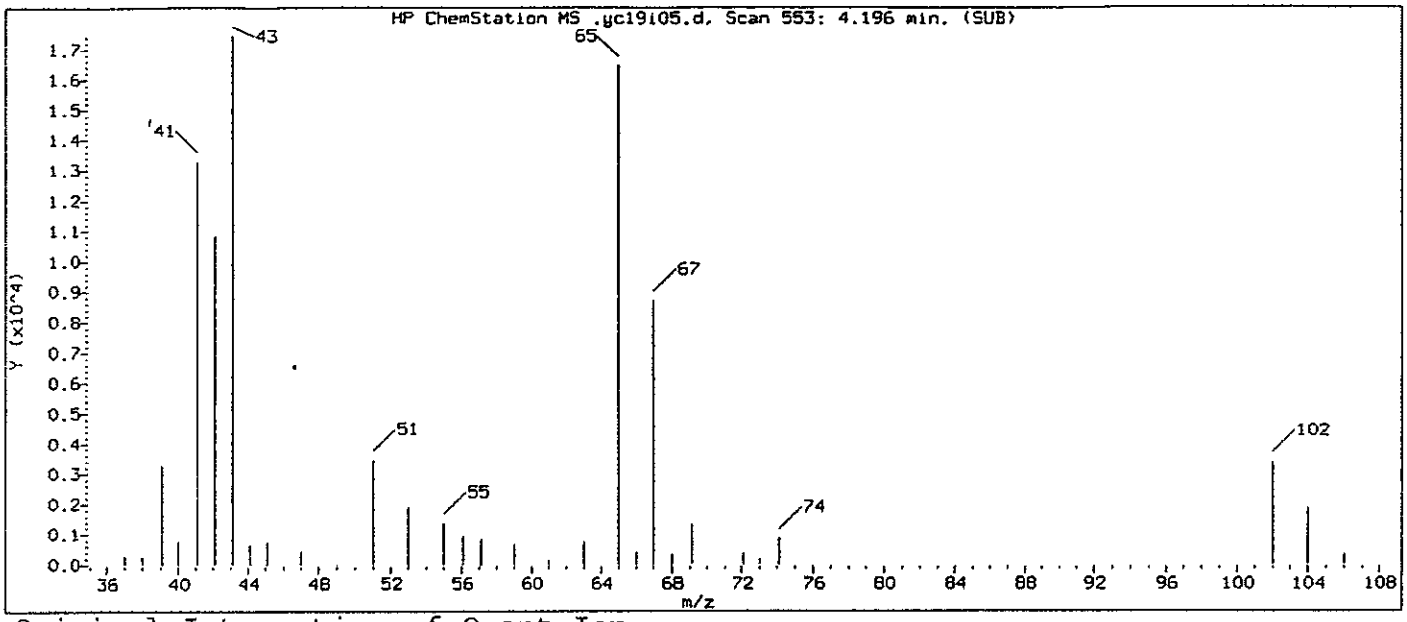
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MBRAG 10/20/09

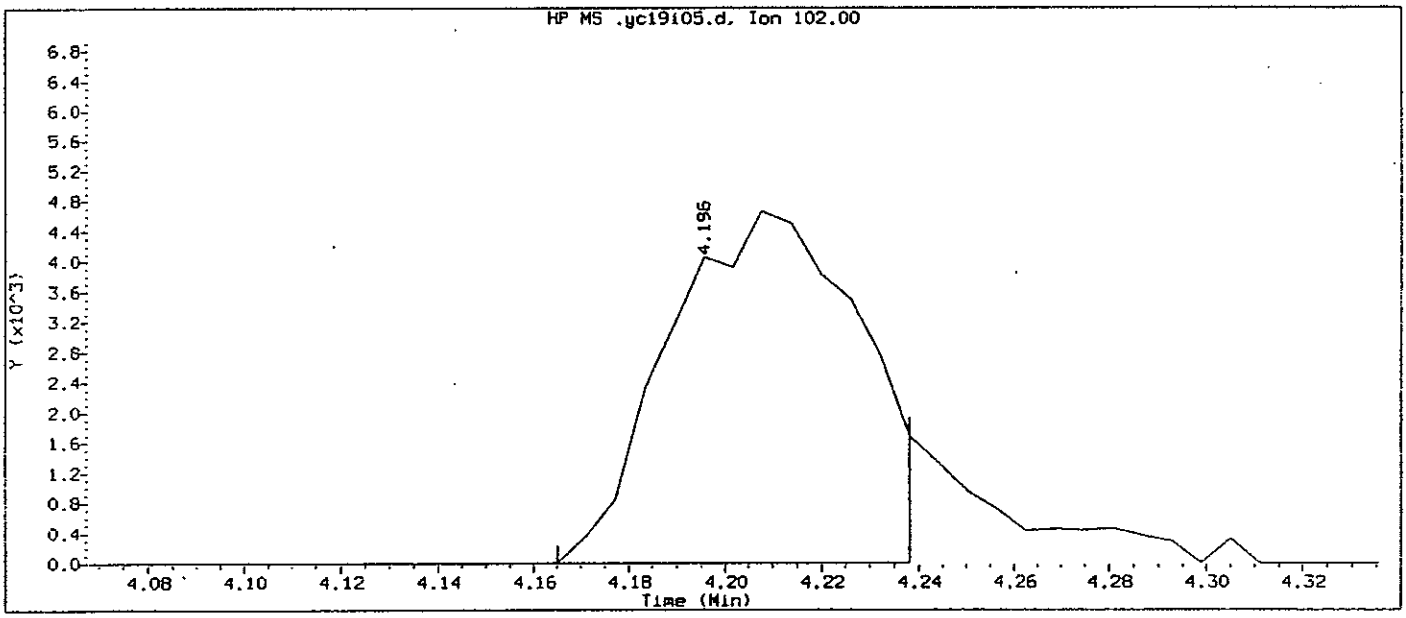
GC/MS audit/management approval: [illegible] 10/20/09 PTL04 6225

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i05.d, generated on 10/20/2009 at 01:31

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i05.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 00:59 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:21
Date, time and analyst ID of latest file update: 20-Oct-2009 01:21 hb01996

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 62
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 553
Retention Time (minutes): 4.196
Quant Ion : 102
Area : 12696
Concentration (ug/L) : 8.9026
Integration start scan : 547 Integration stop scan: 559
Y at integration start : 0 Y at integration end: 0

PTL04 0226

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i05.d, generated on 10/20/2009 at 01:31

Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d
Date : 20-OCT-2009 01:20
Client ID: VSTD004
Sample Info: VSTD004;VSTD004;1;1
Purge Volume: 5.0
Column phase: DB-624

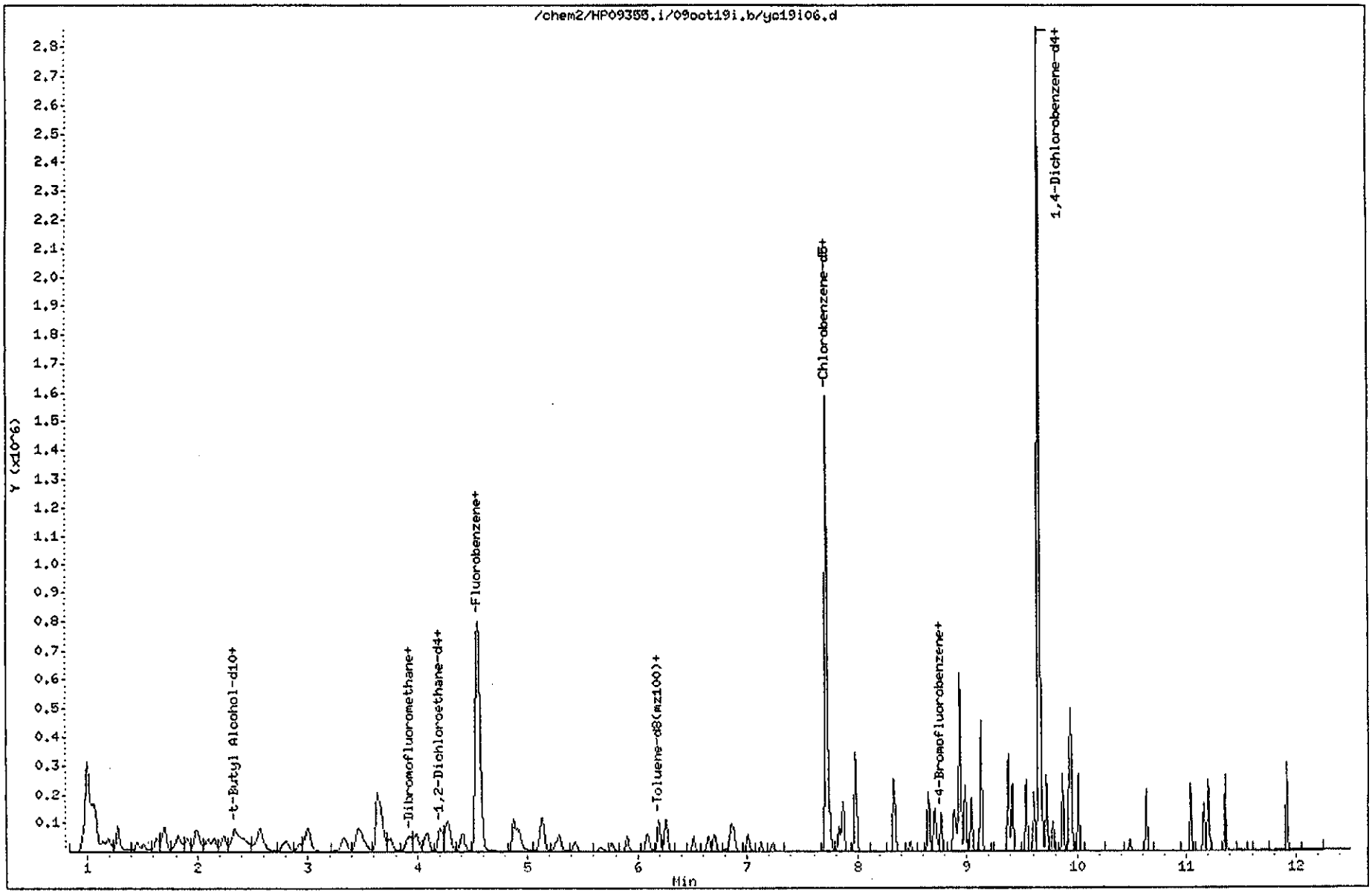
Instrument: HP09355.i

Operator: MAZ02012
Column diameter: 0.18

HB896 10/20/09

Page 6

FILE# 8227



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:40 hb01996

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.147	85	34317M	4.116
3) Chloromethane	(1)	1.190	50	35838	4.230
5) Vinyl Chloride	(1)	1.269	62	32664	4.082
4) 1,3-Butadiene	(1)	1.275	39	29197	4.972
7) Bromomethane	(1)	1.452	94	20935	4.199
8) Chloroethane	(1)	1.512	64	18016	4.114
9) Dichlorofluoromethane	(1)	1.829	67	27839	4.263
10) Trichlorofluoromethane	(1)	1.677	101	38179	4.134
11) n-Pentane	(1)	1.701	43	62413	4.571
13) Ethyl Ether	(1)	1.823	59	21670	4.341
14) Freon 123a	(1)	1.829	67	27839	4.271
15) Acrolein	(4)	1.908	56	59474	30.470
16) 1,1-Dichloroethene	(1)	1.987	96	20306	4.237
18) Freon 113	(1)	1.999	101	22930	4.289
17) Acetone	(1)	2.005	58	6504	8.097
20) Methyl Iodide	(1)	2.096	142	42814	4.168
21) 2-Propanol	(4)	2.103	45	47248	67.013
22) Carbon Disulfide	(1)	2.157	76	64163	4.147
24) Allyl Chloride	(1)	2.243	41	38914	4.217
25) Methyl Acetate	(1)	2.255	43	29806	4.860
26) Methylene Chloride	(1)	2.334	84	23598	4.189
28)*t-Butyl Alcohol-d10	(4)	2.352	65	212228	250.000
29) t-Butyl Alcohol	(4)	2.443	59	80232	72.289
30) Acrylonitrile	(1)	2.528	53	11638	3.659
31) trans-1,2-Dichloroethene	(1)	2.571	96	22270	4.085
32) Methyl Tertiary Butyl Ether	(1)	2.571	73	76766	4.022
33) n-Hexane	(1)	2.808	57	35714	4.135
45) 1,2-Dichloroethene (total)	(1)		96	46123	8.115
34) 1,1-Dichloroethane	(1)	2.930	63	41172	4.070
36) di-Isopropyl Ether	(1)	2.997	45	82377	4.106
37) 2-Chloro-1,3-Butadiene	(1)	3.009	53	36441	4.046
39) Ethyl t-Butyl Ether	(1)	3.325	59	77048	3.989
40) cis-1,2-Dichloroethene	(1)	3.453	96	23853	4.030
41) 2-Butanone	(1)	3.441	43	31213	7.230

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL84 8228

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:40 hb01996

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) 2,2-Dichloropropane	(1)	3.459	77	34969	4.090
43) Propionitrile	(4)	3.490	54	91605	70.382
46) Methacrylonitrile	(1)	3.636	67	118616	38.812
47) Bromochloromethane	(1)	3.672	128	12265	3.919
48) Tetrahydrofuran	(4)	3.703	71	7155	5.631
50) Chloroform	(1)	3.751	83	39788	4.124
53) 1,1,1-Trichloroethane	(1)	3.934	97	46352	4.681
56) Cyclohexane	(1)	3.988	56	44851	4.249
54) Cyclohexane (mz 84)	(1)	3.988	84	36396	4.147
55) Cyclohexane (mz 69)	(1)	3.988	69	12679	4.075
57) 1,1-Dichloropropene	(1)	4.086	75	31492	4.120
58) Carbon Tetrachloride	(1)	4.092	117	28552	3.893
59) Isobutyl Alcohol	(4)	4.207	41	63823	188.226
63) Benzene	(1)	4.280	78	93526	4.111
65) 1,2-Dichloroethane	(1)	4.287	62	34354	4.094
64) 1,2-Dichloroethane (mz 98)	(1)	4.287	98	2532	3.602
69) t-Amyl Methyl Ether	(1)	4.414	73	71706	3.946
72) n-Heptane	(1)	4.566	43	44272	4.368
71)*Fluorobenzene	(1)	4.548	96	1079219	50.000
73) n-Butanol	(4)	4.877	56	97761	339.901
74) Trichloroethene	(1)	4.919	95	23562	4.044
77) 1,2-Dichloropropane	(1)	5.132	63	23701	3.957
75) Methylcyclohexane (mz98)	(1)	5.132	98	20136	4.121
76) Methylcyclohexane	(1)	5.126	83	42078	4.021
80) Methyl Methacrylate	(1)	5.284	69	17832	3.699
78) Dibromomethane	(1)	5.254	93	14460	3.907
79) 1,4-Dioxane	(4)	5.284	88	19019	195.394
83) Bromodichloromethane	(1)	5.430	83	25933	3.703
85) 2-Nitropropane	(1)	5.668	41	11235M	5.787
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	15203	3.678
87) cis-1,3-Dichloropropene	(1)	5.905	75	33254	3.670
89) 4-Methyl-2-Pentanone	(1)	6.087	43	61494M	6.611
94) Toluene	(2)	6.264	92	58062	3.952
95) trans-1,3-Dichloropropene	(2)	6.507	75	31262	3.582

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:40 hb01996

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
96) Ethyl Methacrylate	(2)	6.647	69	29041	3.368
97) 1,1,2-Trichloroethane	(2)	6.702	97	20901	3.963
98) Tetrachloroethene	(2)	6.854	166	30569	4.124
99) 1,3-Dichloropropane	(2)	6.884	76	36488	3.950
101) 2-Hexanone	(2)	7.006	43	43465	6.390
102) Dibromochloromethane	(2)	7.128	129	19243	3.355
104) 1,2-Dibromoethane	(2)	7.231	107	21378	3.758
106) *Chlorobenzene-d5	(2)	7.718	117	825331	50.000
107) Chlorobenzene	(2)	7.742	112	67550	4.021
108) 1,1,1,2-Tetrachloroethane	(2)	7.833	131	20699	3.620
109) Ethylbenzene	(2)	7.870	91	114203	4.030
110) m+p-Xylene	(2)	7.979	106	89883	7.803
112) Xylene (Total)	(2)		106	133019	11.613
113) o-Xylene	(2)	8.332	106	43136	3.810
114) Styrene	(2)	8.344	104	61682	3.450
115) Bromoform	(2)	8.484	173	12515	2.980
116) Isopropylbenzene	(2)	8.655	105	111449	3.870
118) Cyclohexanone	(4)	8.709	55	61526	176.306
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	31453	3.850
124) trans-1,4-Dichloro-2-Butene	(3)	8.941	53	100716	37.772
121) Bromobenzene	(3)	8.880	156	30337	3.896
123) 1,2,3-Trichloropropane	(3)	8.922	110	10573	4.045
125) n-Propylbenzene	(3)	8.983	91	139774	4.073
126) 2-Chlorotoluene	(3)	9.044	126	29254	4.031
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	98693	3.879
128) 4-Chlorotoluene	(3)	9.129	126	30313	4.067
130) tert-Butylbenzene	(3)	9.379	134	23774	3.959
131) Pentachloroethane	(3)	9.385	167	15154	3.518
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	101890	3.892
133) sec-Butylbenzene	(3)	9.543	105	125532	3.893
135) p-Isopropyltoluene	(3)	9.652	119	114437	3.918
134) 1,3-Dichlorobenzene	(3)	9.610	146	61660	4.045
136) *1,4-Dichlorobenzene-d4	(3)	9.658	152	514565	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	64533	4.062

* = Compound is an internal standard.

PTL84 8238

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

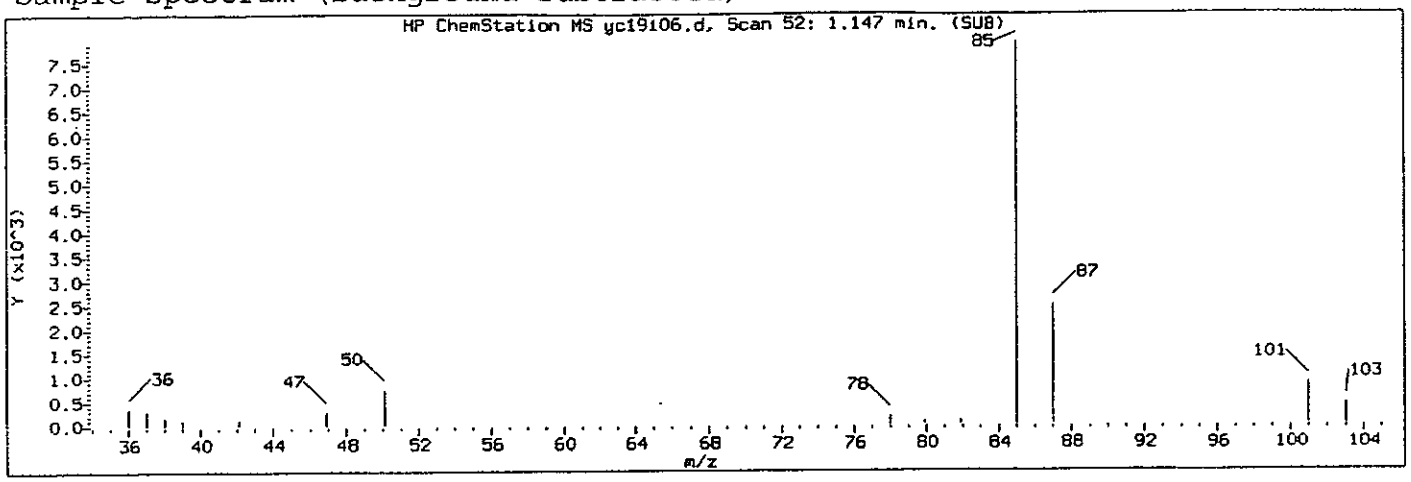
Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 01:40 hb01996

Sample Name: VSTD004 Lab Sample ID: VSTD004

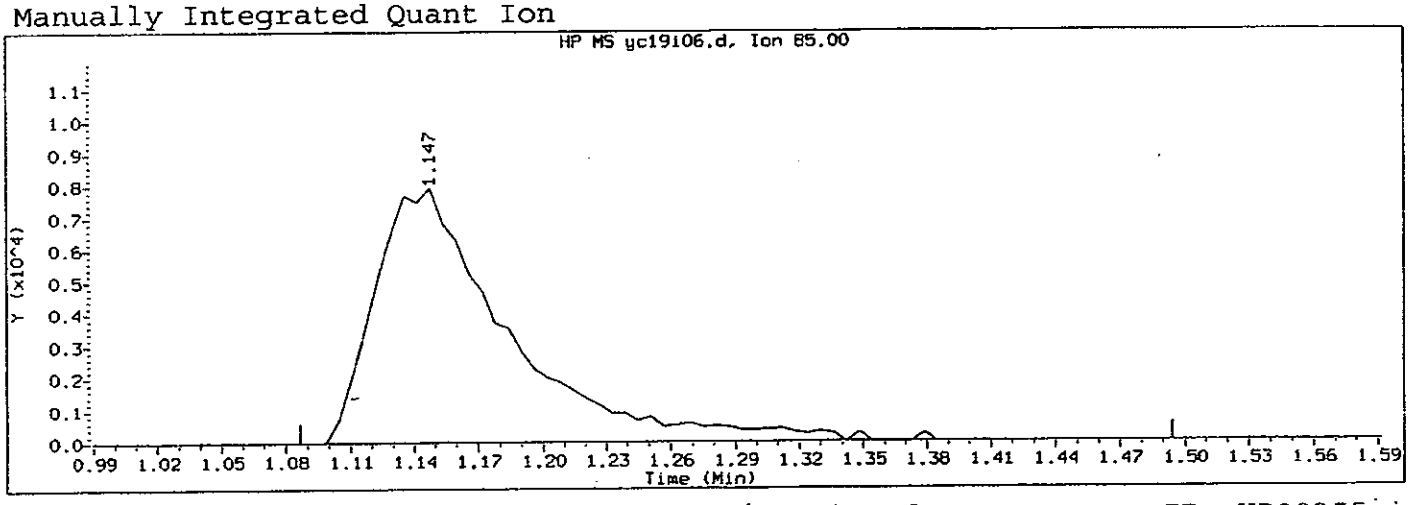
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
139) 1,2,3-Trimethylbenzene	(3)	9.719	105	105345	3.931
141) Benzyl Chloride	(3)	9.780	91	54632	3.193
142) 1,3-Diethylbenzene	(3)	9.871	119	66172	3.894
143) 1,4-Diethylbenzene	(3)	9.926	119	68015	3.956
145) n-Butylbenzene	(3)	9.944	92	57318	4.009
144) 1,2-Dichlorobenzene	(3)	9.944	146	60648	4.025
146) 1,2-Diethylbenzene	(3)	10.011	119	56754	3.988
148) 1,2-Dibromo-3-Chloropropane	(3)	10.480	75	6716	3.770
149) 1,3,5-Trichlorobenzene	(3)	10.632	180	49993	4.149
150) 1,2,4-Trichlorobenzene	(3)	11.039	180	51267	4.134
151) Hexachlorobutadiene	(3)	11.155	225	24581	4.157
152) Naphthalene	(3)	11.198	128	138392	4.152
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	52072	4.348
154) 2-Methylnaphthalene	(3)	11.921	142	101772	4.528
52)$Dibromofluoromethane	(1)	3.903	113	21070	3.821
51)$Dibromofluoromethane(mz111)	(1)	3.897	111	21812	3.878
62)$1,2-Dichloroethane-d4	(1)	4.214	102	5366	3.756
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.220	104	3467	3.907
92)$Toluene-d8(mz100)	(2)	6.191	100	56760	3.777
61)$1,2-Dichloroethane-d4(mz65)	(1)	4.214	65	29415	3.989
120)$4-Bromofluorobenzene(mz174)	(2)	8.770	174	30777	3.851
93)$Toluene-d8	(2)	6.191	98	88820	3.889
119)$4-Bromofluorobenzene	(2)	8.764	95	33319	3.866

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:40
Date, time and analyst ID of latest file update: 20-Oct-2009 01:40 hb01996

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 2
Compound Name : Dichlorodifluoromethane
Scan Number : 52
Retention Time (minutes): 1.147
Quant Ion : 85
Area (flag) : 34317 M
Concentration (ug/L) : 4.1160
Integration start scan : 41 Integration stop scan: 108
Y at integration start : 0 Y at integration end: 0

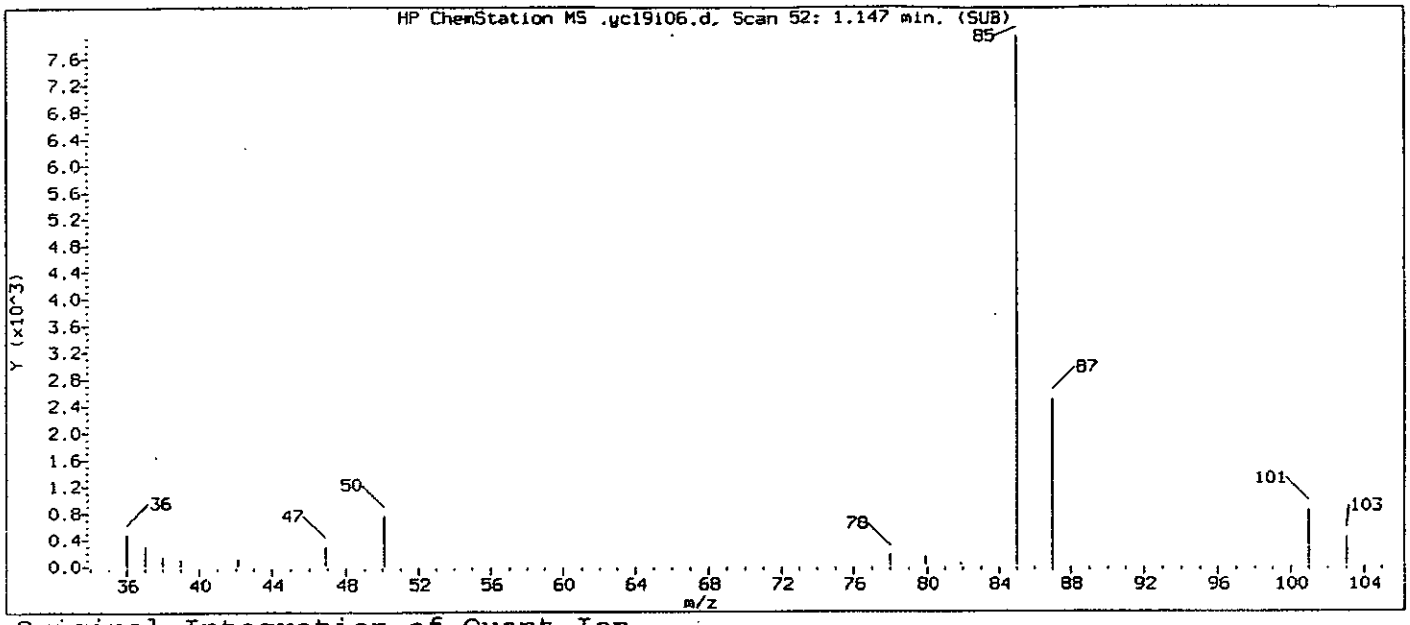
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: HB01996 10/20/09

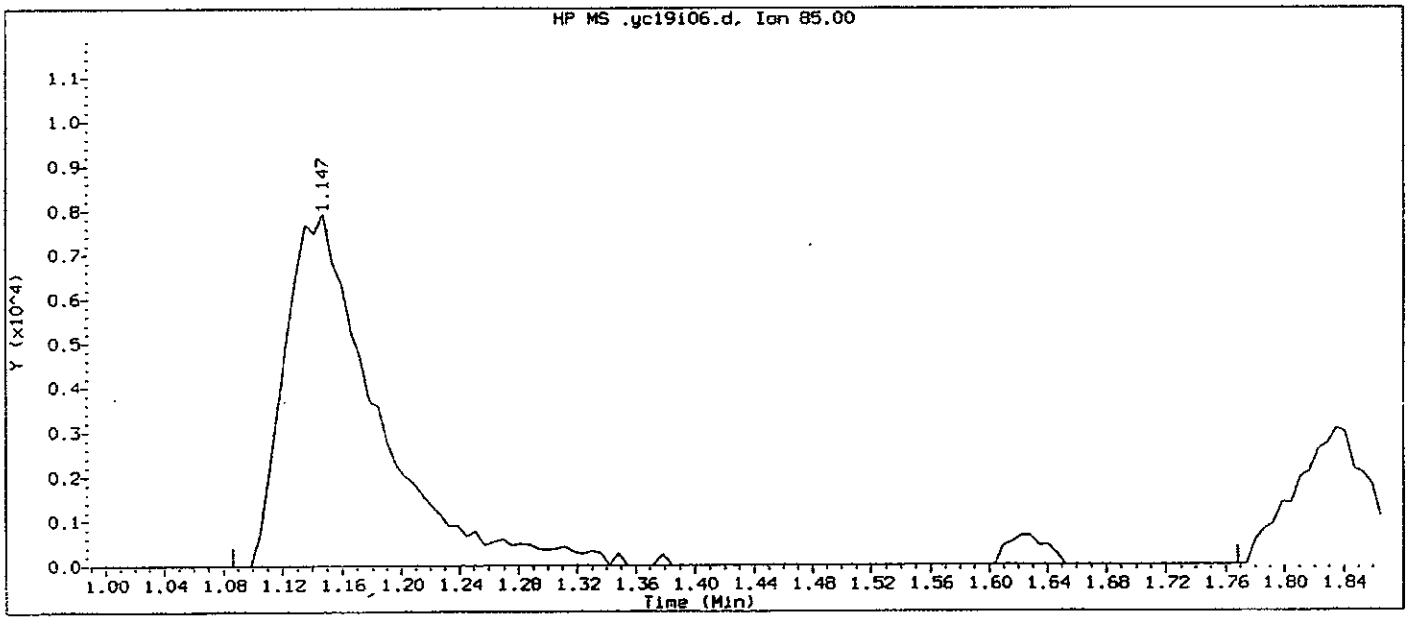
GC/MS audit/management approval: [illegible] 10/20/09 PTL84 8232

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i06.d, generated on 10/20/2009 at 01:41

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:35
Date, time and analyst ID of latest file update: 20-Oct-2009 01:35 Automation

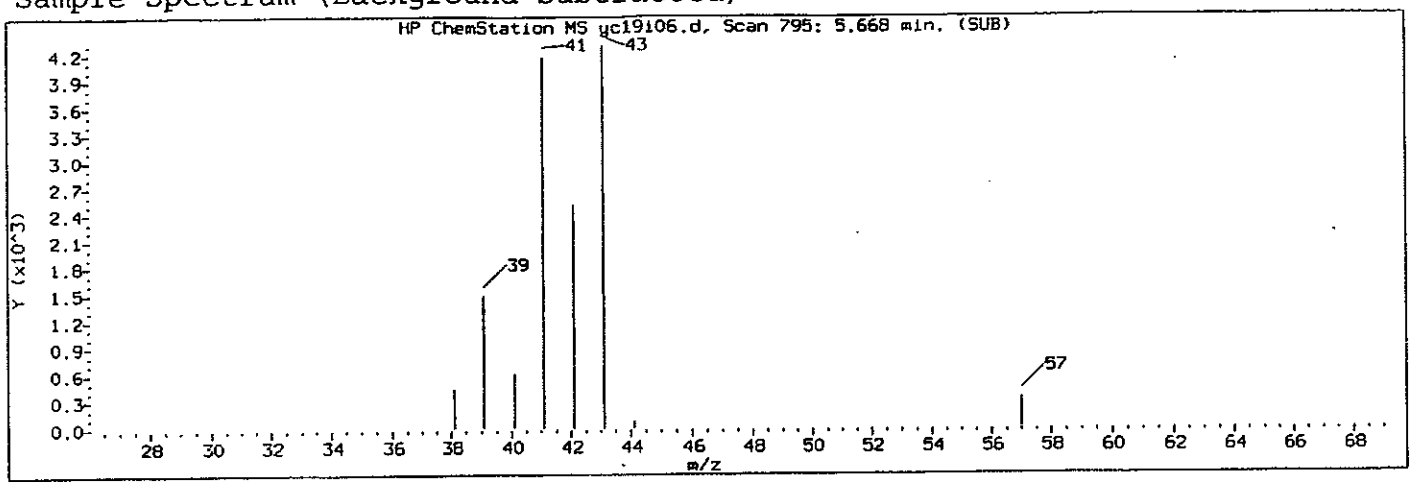
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 2
Compound Name : Dichlorodifluoromethane
Scan Number : 52
Retention Time (minutes): 1.147
Quant Ion : 85
Area : 35567
Concentration (ug/L) : 4.2395
Integration start scan : 41 Integration stop scan: 153
Y at integration start : 0 Y at integration end: 0

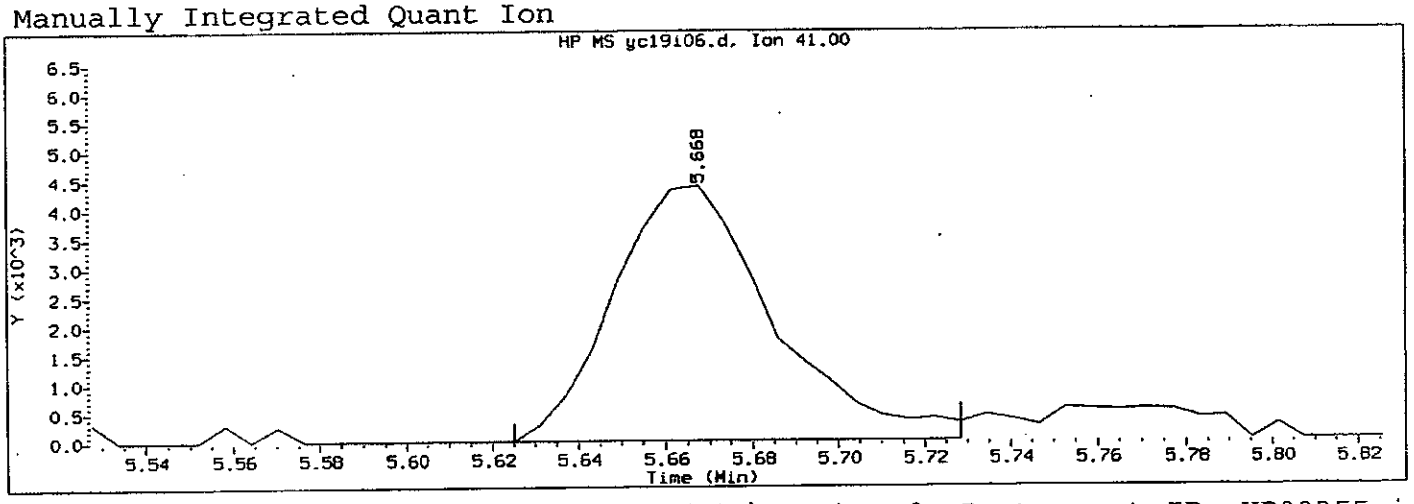
PTL84 0233

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i06.d, generated on 10/20/2009 at 01:41

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:40
Date, time and analyst ID of latest file update: 20-Oct-2009 01:40 hb01996

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 85
Compound Name : 2-Nitropropane
Scan Number : 795
Retention Time (minutes) : 5.668
Quant Ion : 41
Area (flag) : 11235 M
Concentration (ug/L) : 5.7871
Integration start scan : 787 Integration stop scan: 804
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

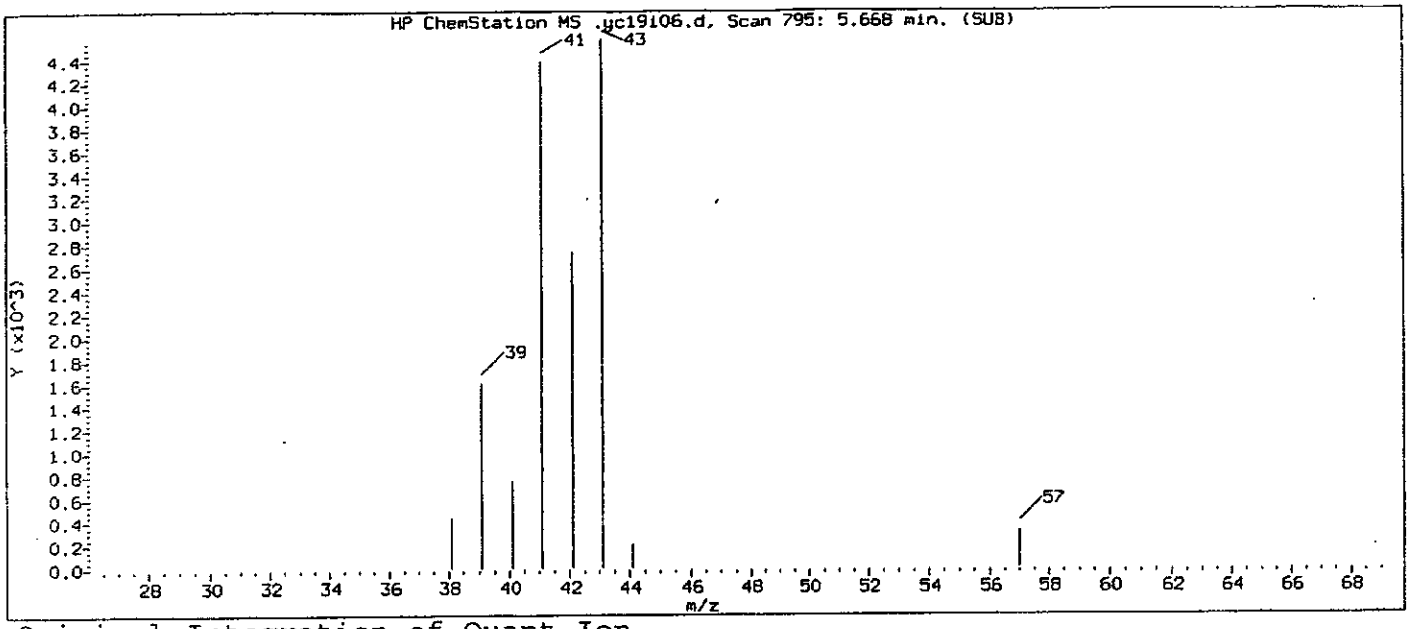
Analyst responsible for change: HB1996 10/20/09

GC/MS audit/management approval: [illegible] 102009

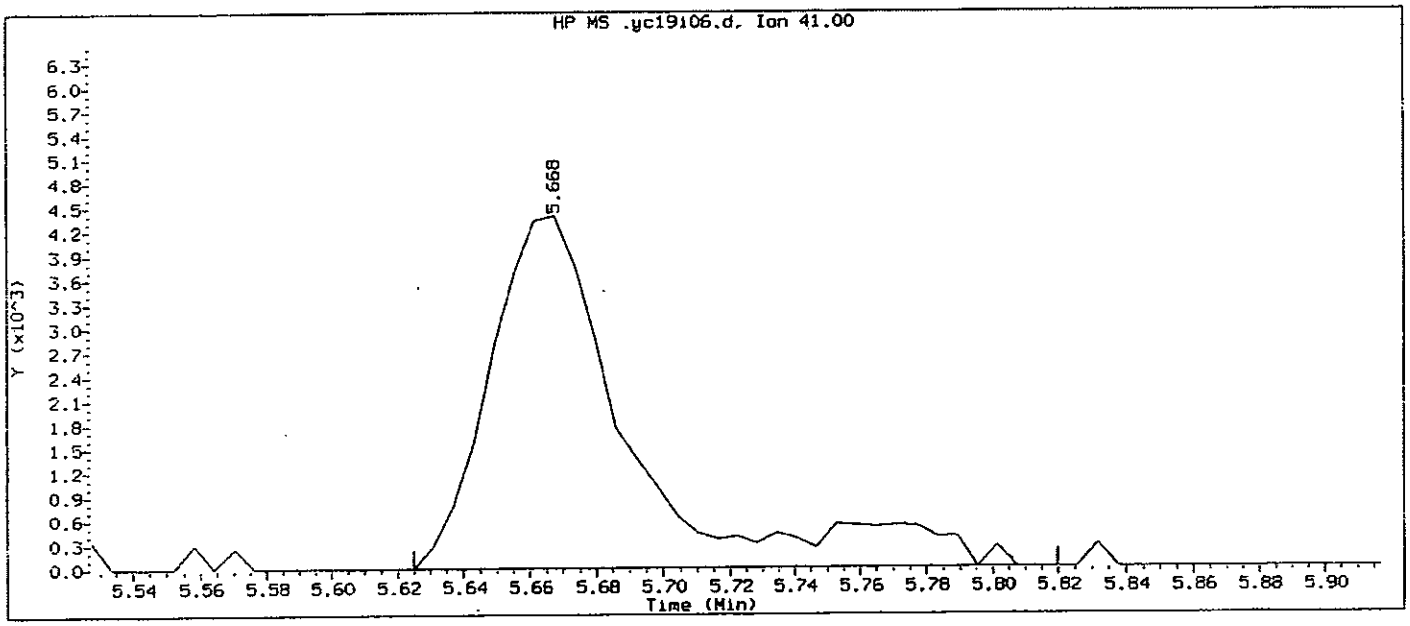
PTL84 8234

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i06.d, generated on 10/20/2009 at 01:41

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:35
Date, time and analyst ID of latest file update: 20-Oct-2009 01:35 Automation

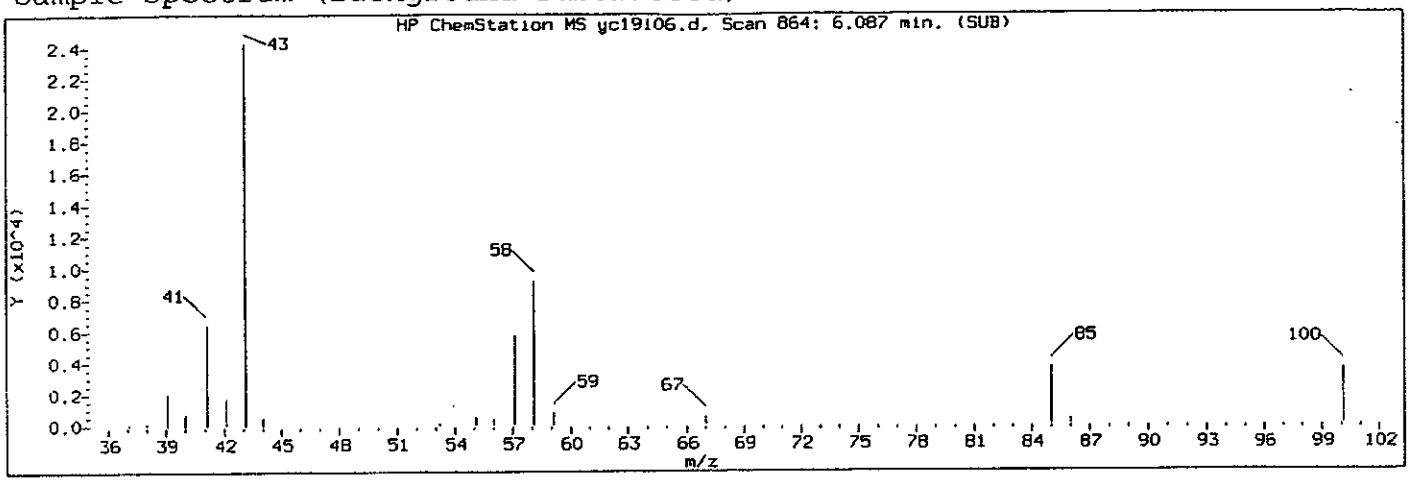
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 85
Compound Name : 2-Nitropropane
Scan Number : 795
Retention Time (minutes) : 5.668
Quant Ion : 41
Area : 12952
Concentration (ug/L) : 6.5509
Integration start scan : 787 Integration stop scan: 819
Y at integration start : 0 Y at integration end: 0

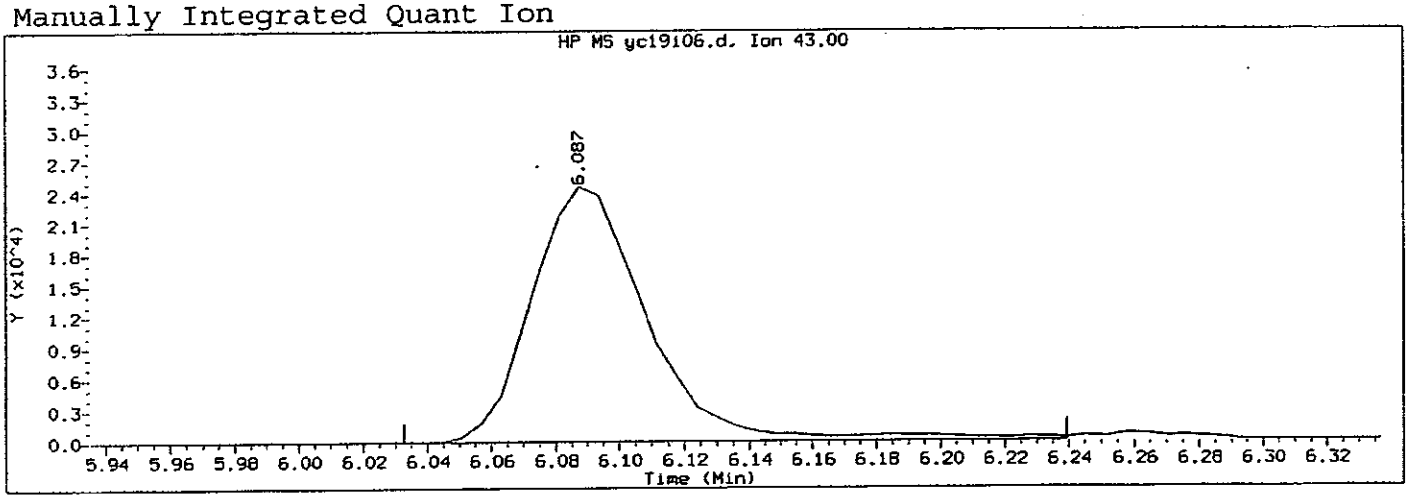
PTL04 0235

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i06.d, generated on 10/20/2009 at 01:41

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:40
Date, time and analyst ID of latest file update: 20-Oct-2009 01:40 hb01996

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 89
Compound Name : 4-Methyl-2-Pentanone
Scan Number : 864
Retention Time (minutes): 6.087
Quant Ion : 43
Area (flag) : 61494 M
Concentration (ug/L) : 6.6113
Integration start scan : 854 Integration stop scan: 888
Y at integration start : 0 Y at integration end: 0

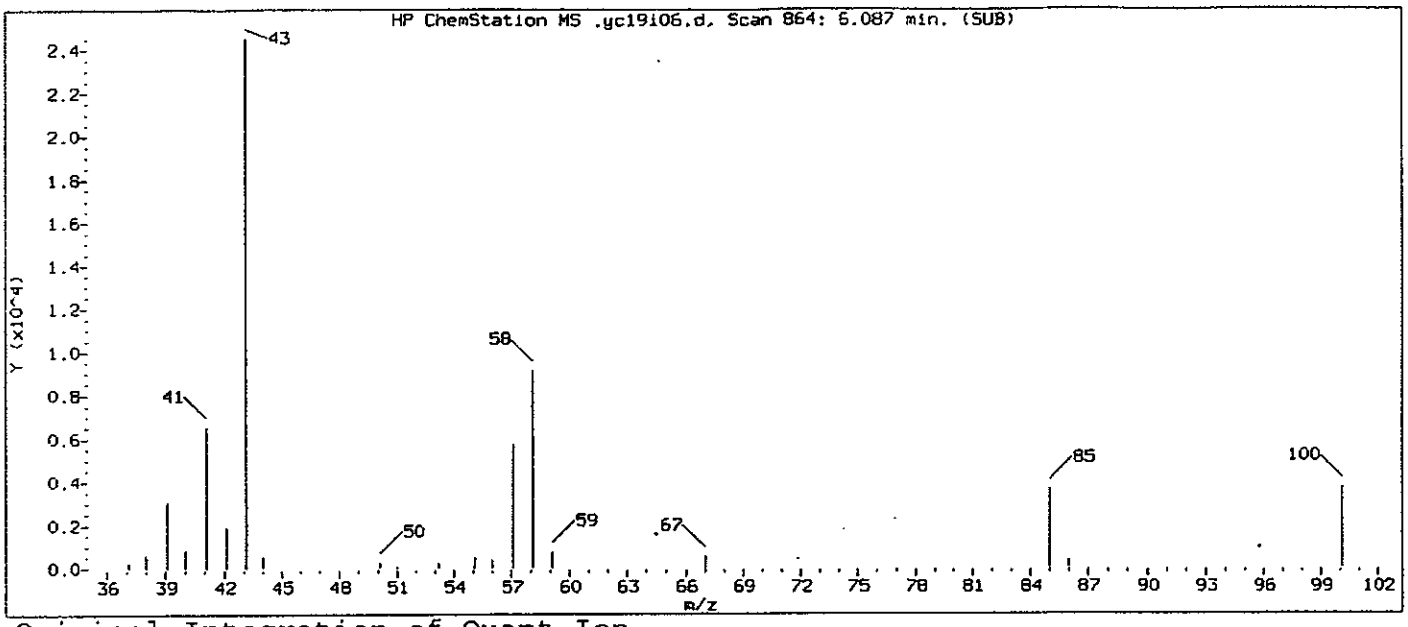
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: HB1996 10/20/09

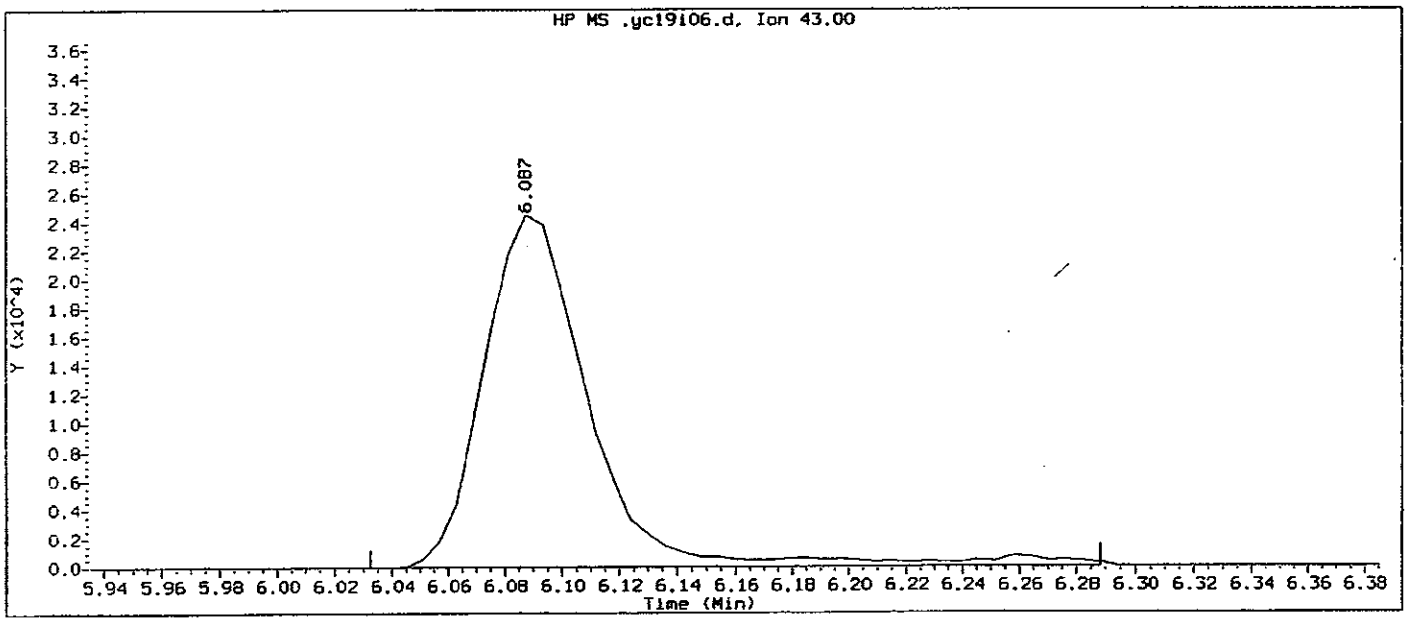
GC/MS audit/management approval: [illegible] 10/20/09 PTL84 #236

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i06.d, generated on 10/20/2009 at 01:41

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19i06.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:20 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260WI
Calibration date and time: 20-OCT-2009 01:35
Date, time and analyst ID of latest file update: 20-Oct-2009 01:35 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

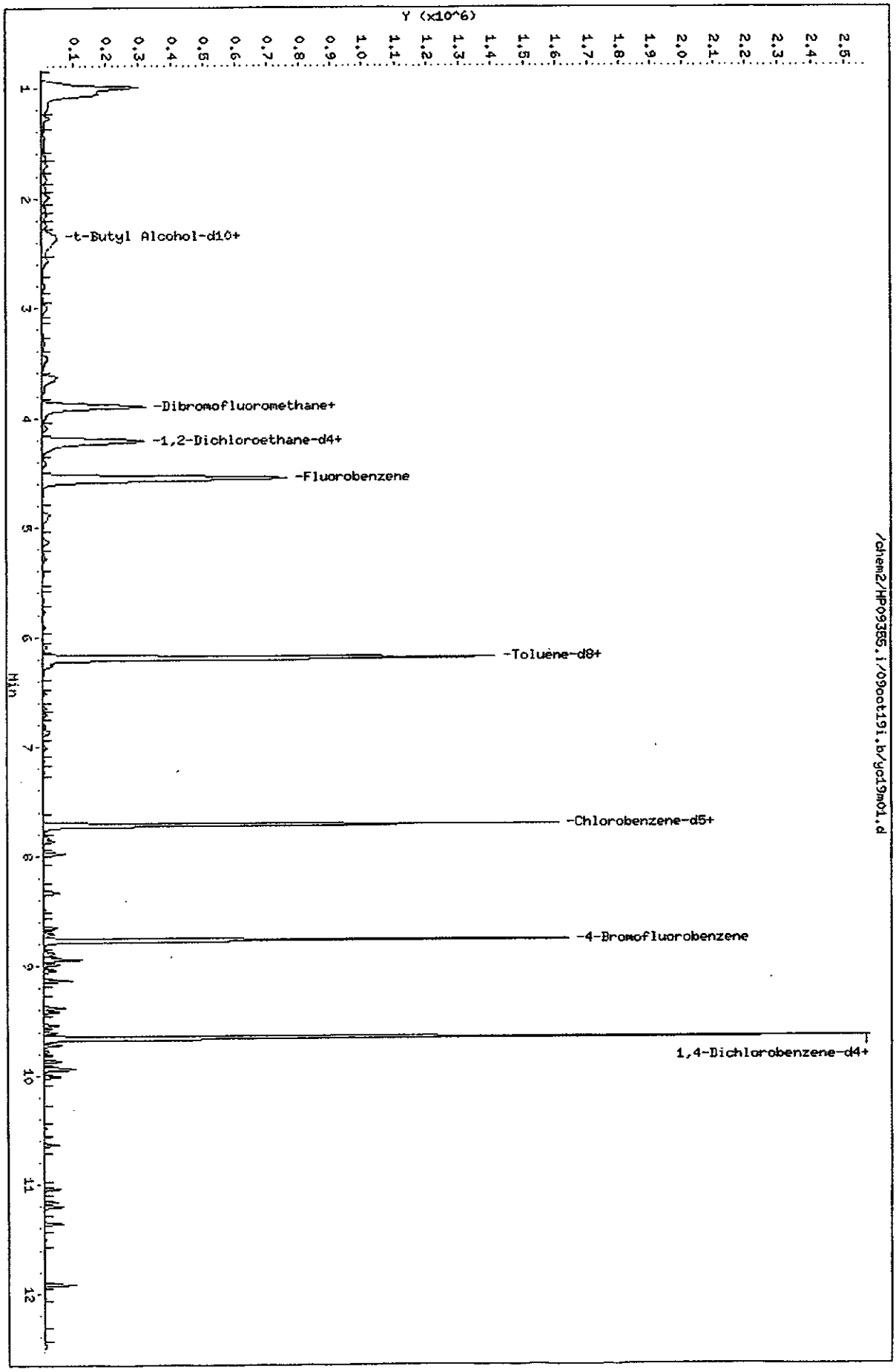
Compound Number : 89
Compound Name : 4-Methyl-2-Pentanone
Scan Number : 864
Retention Time (minutes): 6.087
Quant Ion : 43
Area : 62825
Concentration (ug/L) : 6.7343
Integration start scan : 854 Integration stop scan: 896
Y at integration start : 0 Y at integration end: 0

PTL04 0237

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19i06.d, generated on 10/20/2009 at 01:41

Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d
Date : 20-OCT-2009 01:42
Client ID: MDL001
Sample Info: MDL001;MDL001;1;3;MDL/LOQ;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: MAZ02012
Column diameter: 0.18



MBR96
10/20/09

PTL00 0238

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:55 hb01996

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.135	85	5362	0.649
3) Chloromethane	(1)	1.190	50	8770	1.053
5) Vinyl Chloride	(1)	1.269	62	7300	0.923
4) 1,3-Butadiene	(1)	1.275	39	7489	1.292
7) Bromomethane	(1)	1.452	94	4268	0.870
8) Chloroethane	(1)	1.513	64	3896	0.908
9) Dichlorofluoromethane	(1)	1.829	67	5954	0.922
10) Trichlorofluoromethane	(1)	1.659	101	7681	0.842
11) n-Pentane	(1)	1.695	43	12733M	0.930
13) Ethyl Ether	(1)	1.829	59	4241	0.866
14) Freon 123a	(1)	1.829	67	5954	0.925
15) Acrolein	(4)	1.908	56	14261	8.952
16) 1,1-Dichloroethene	(1)	1.987	96	4414	0.936
18) Freon 113	(1)	1.999	101	3807	0.723
17) Acetone	(1)	2.005	58	806	1.072
20) Methyl Iodide	(1)	2.103	142	8618	0.855
21) 2-Propanol	(4)	2.103	45	13889	21.212
22) Carbon Disulfide	(1)	2.158	76	15163	0.996
24) Allyl Chloride	(1)	2.243	41	11408	1.250
25) Methyl Acetate	(1)	2.249	43	10013	1.650
26) Methylene Chloride	(1)	2.334	84	5174	0.936
28)*t-Butyl Alcohol-d10	(4)	2.364	65	201593	250.000
29) t-Butyl Alcohol	(4)	2.437	59	19974	19.241
30) Acrylonitrile	(1)	2.541	53	2679	0.913
31) trans-1,2-Dichloroethene	(1)	2.565	96	4464	0.836
32) Methyl Tertiary Butyl Ether	(1)	2.565	73	17202	0.921
33) n-Hexane	(1)	2.815	57	6241	0.734
45) 1,2-Dichloroethene (total)	(1)		96	9291	1.670
34) 1,1-Dichloroethane	(1)	2.924	63	8857	0.895
36) di-Isopropyl Ether	(1)	3.003	45	17697	0.901
37) 2-Chloro-1,3-Butadiene	(1)	3.015	53	8176	0.923
39) Ethyl t-Butyl Ether	(1)	3.338	59	16170	0.856
40) cis-1,2-Dichloroethene	(1)	3.447	96	4827	0.834
41) 2-Butanone	(1)	3.429	43	7086M	1.788

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:55 hb01996

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) 2,2-Dichloropropane	(1)	3.459	77	7742	0.923
43) Propionitrile	(4)	3.484	54	20425	17.313
46) Methacrylonitrile	(1)	3.630	67	25501	8.498
47) Bromochloromethane	(1)	3.672	128	2609	0.846
48) Tetrahydrofuran	(4)	3.697	71	1506	1.454
50) Chloroform	(1)	3.751	83	8256	0.872
53) 1,1,1-Trichloroethane	(1)	3.934	97	9904	1.016
56) Cyclohexane	(1)	4.001	56	8810	0.849
57) 1,1-Dichloropropene	(1)	4.080	75	6781	0.902
58) Carbon Tetrachloride	(1)	4.104	117	6305	0.877
59) Isobutyl Alcohol	(4)	4.208	41	15479	49.907
63) Benzene	(1)	4.275	78	20146	0.902
65) 1,2-Dichloroethane	(1)	4.293	62	7613	0.923
69) t-Amyl Methyl Ether	(1)	4.415	73	16004	0.900
72) n-Heptane	(1)	4.573	43	8500M	0.853
71) *Fluorobenzene	(1)	4.548	96	1068365	50.000
73) n-Butanol	(4)	4.877	56	22825	87.488
74) Trichloroethene	(1)	4.926	95	5120	0.895
77) 1,2-Dichloropropane	(1)	5.132	63	5086	0.865
76) Methylcyclohexane	(1)	5.132	83	7821	0.753
80) Methyl Methacrylate	(1)	5.291	69	3939	0.830
78) Dibromomethane	(1)	5.248	93	3057	0.841
79) 1,4-Dioxane	(4)	5.285	88	3230	52.210
83) Bromodichloromethane	(1)	5.437	83	5063	0.737
85) 2-Nitropropane	(1)	5.668	41	2765	1.583
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	3098	0.756
87) cis-1,3-Dichloropropene	(1)	5.905	75	6736	0.758
89) 4-Methyl-2-Pentanone	(1)	6.081	43	13114	1.538
94) Toluene	(2)	6.258	92	12581	0.868
95) trans-1,3-Dichloropropene	(2)	6.507	75	5984	0.697
96) Ethyl Methacrylate	(2)	6.647	69	6071	0.716
97) 1,1,2-Trichloroethane	(2)	6.702	97	4225	0.813
98) Tetrachloroethene	(2)	6.860	166	6758	0.927
99) 1,3-Dichloropropane	(2)	6.884	76	8283	0.911

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL04 8248

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:55 hb01996

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
101) 2-Hexanone	(2)	7.012	43	9240	1.485
102) Dibromochloromethane	(2)	7.128	129	3827	0.680
104) 1,2-Dibromoethane	(2)	7.237	107	4670	0.832
106)*Chlorobenzene-d5	(2)	7.718	117	819068	50.000
107) Chlorobenzene	(2)	7.748	112	14476	0.875
108) 1,1,1,2-Tetrachloroethane	(2)	7.834	131	4312	0.766
109) Ethylbenzene	(2)	7.870	91	23917	0.855
110) m+p-Xylene	(2)	7.980	106	18383	1.619
112) Xylene (Total)	(2)		106	26911	2.383
113) o-Xylene	(2)	8.332	106	8528	0.764
114) Styrene	(2)	8.345	104	11484	0.653
115) Bromoform	(2)	8.484	173	2520	3.035
116) Isopropylbenzene	(2)	8.655	105	23346	0.821
118) Cyclohexanone	(4)	8.710	55	14607	45.331
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	6756	0.842
124) trans-1,4-Dichloro-2-Butene	(3)	8.941	53	21110	8.074
121) Bromobenzene	(3)	8.880	156	6696	0.879
123) 1,2,3-Trichloropropane	(3)	8.922	110	2435	0.950
125) n-Propylbenzene	(3)	8.989	91	29304	0.871
126) 2-Chlorotoluene	(3)	9.044	126	6123	0.861
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	19455	0.781
128) 4-Chlorotoluene	(3)	9.129	126	6185	0.849
130) tert-Butylbenzene	(3)	9.379	134	4849	0.824
131) Pentachloroethane	(3)	9.385	167	2909	0.680
132) 1,2,4-Trimethylbenzene	(3)	9.409	105	19908	0.776
133) sec-Butylbenzene	(3)	9.543	105	25406	0.804
135) p-Isopropyltoluene	(3)	9.652	119	23512	0.820
134) 1,3-Dichlorobenzene	(3)	9.610	146	13382	0.897
136)*1,4-Dichlorobenzene-d4	(3)	9.659	152	508401	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	13993	0.901
139) 1,2,3-Trimethylbenzene	(3)	9.719	105	21747	0.823
141) Benzyl Chloride	(3)	9.780	91	10800	0.646
142) 1,3-Diethylbenzene	(3)	9.872	119	13244	0.787
143) 1,4-Diethylbenzene	(3)	9.926	119	13206	0.777

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:55 hb01996

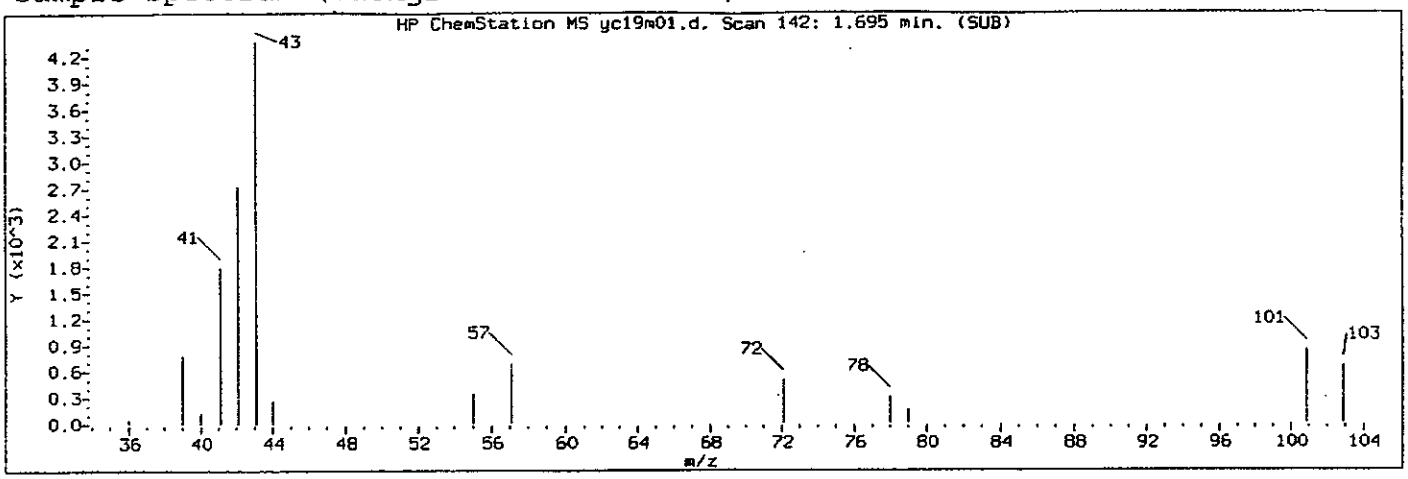
Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
145) n-Butylbenzene	(3)	9.945	92	12141	0.866
144) 1,2-Dichlorobenzene	(3)	9.945	146	13286	0.900
146) 1,2-Diethylbenzene	(3)	10.011	119	11367	0.808
148) 1,2-Dibromo-3-Chloropropane	(3)	10.480	75	1401	0.802
149) 1,3,5-Trichlorobenzene	(3)	10.632	180	11217	0.935
150) 1,2,4-Trichlorobenzene	(3)	11.040	180	12994	1.075
151) Hexachlorobutadiene	(3)	11.155	225	6235	1.083
152) Naphthalene	(3)	11.198	128	34992	1.088
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	13443	1.162
154) 2-Methylnaphthalene	(3)	11.922	142	33690M	0.000
52)$Dibromofluoromethane	(1)	3.904	113	278683	51.182
62)$1,2-Dichloroethane-d4	(1)	4.208	102	70597	50.527
93)$Toluene-d8	(2)	6.191	98	1140246	50.221
119)$4-Bromofluorobenzene	(2)	8.764	95	430331	50.294

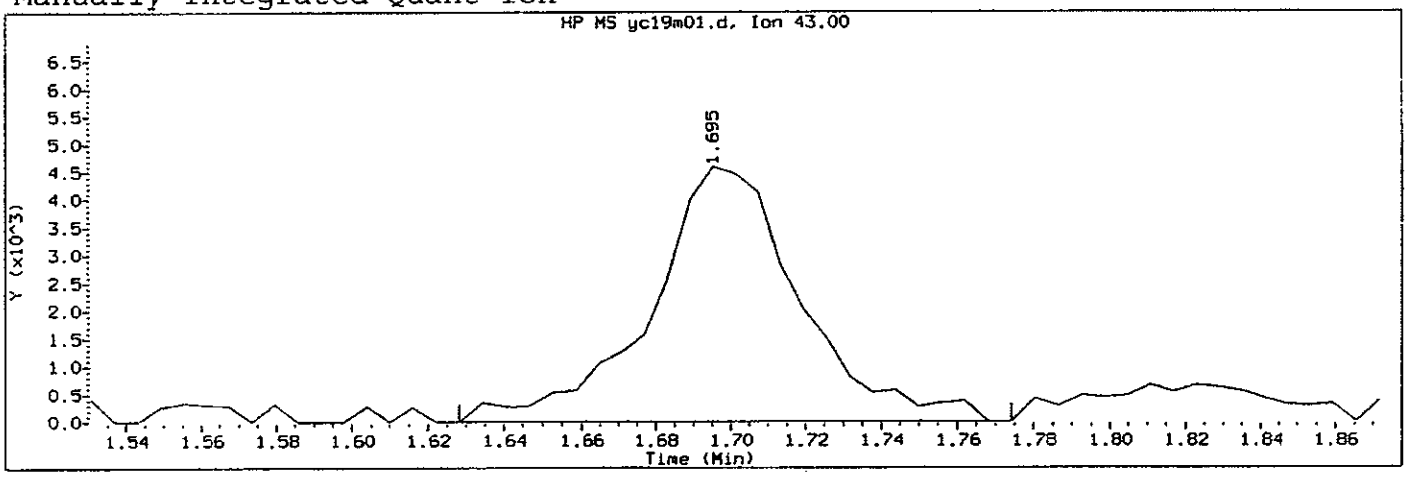
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 02:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:55 hb01996

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 11
Compound Name : n-Pentane
Scan Number : 142
Retention Time (minutes): 1.695
Quant Ion : 43
Area (flag) : 12733 M
Concentration (ug/L) : 0.9302
Integration start scan : 130 Integration stop scan: 154
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

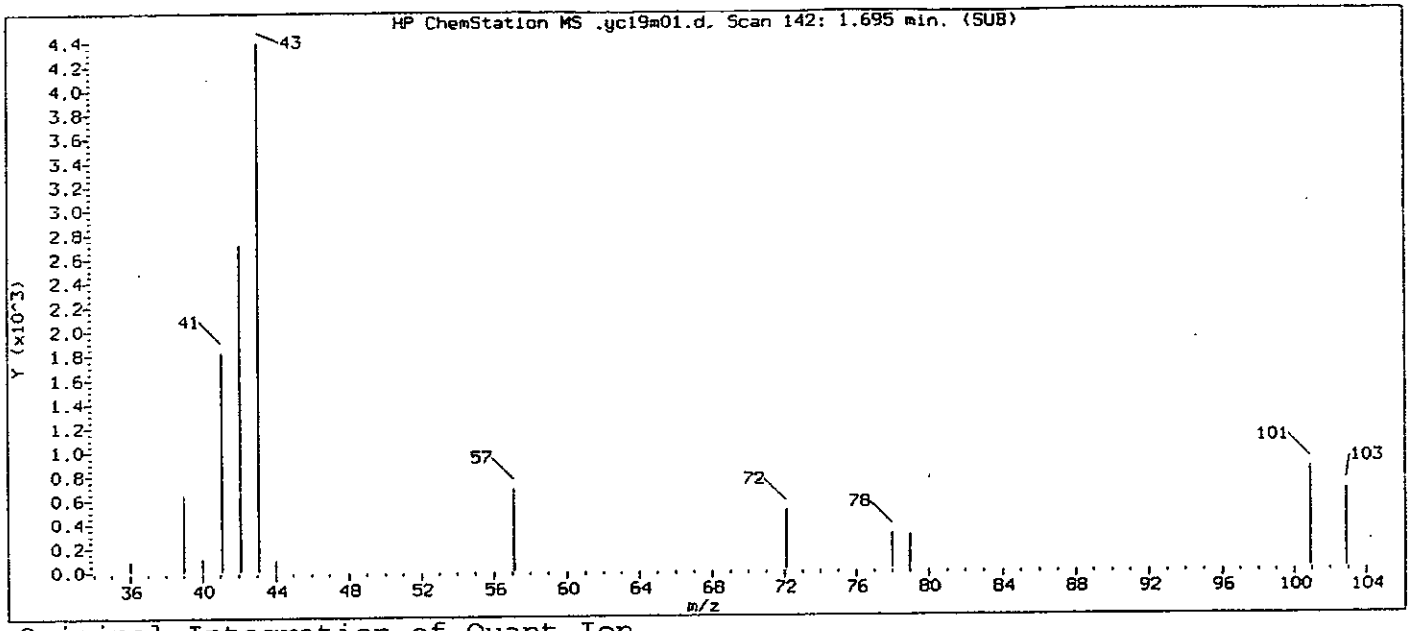
Analyst responsible for change: HB1996 10/20/09

GC/MS audit/management approval: AMAuftrew 10/20/09

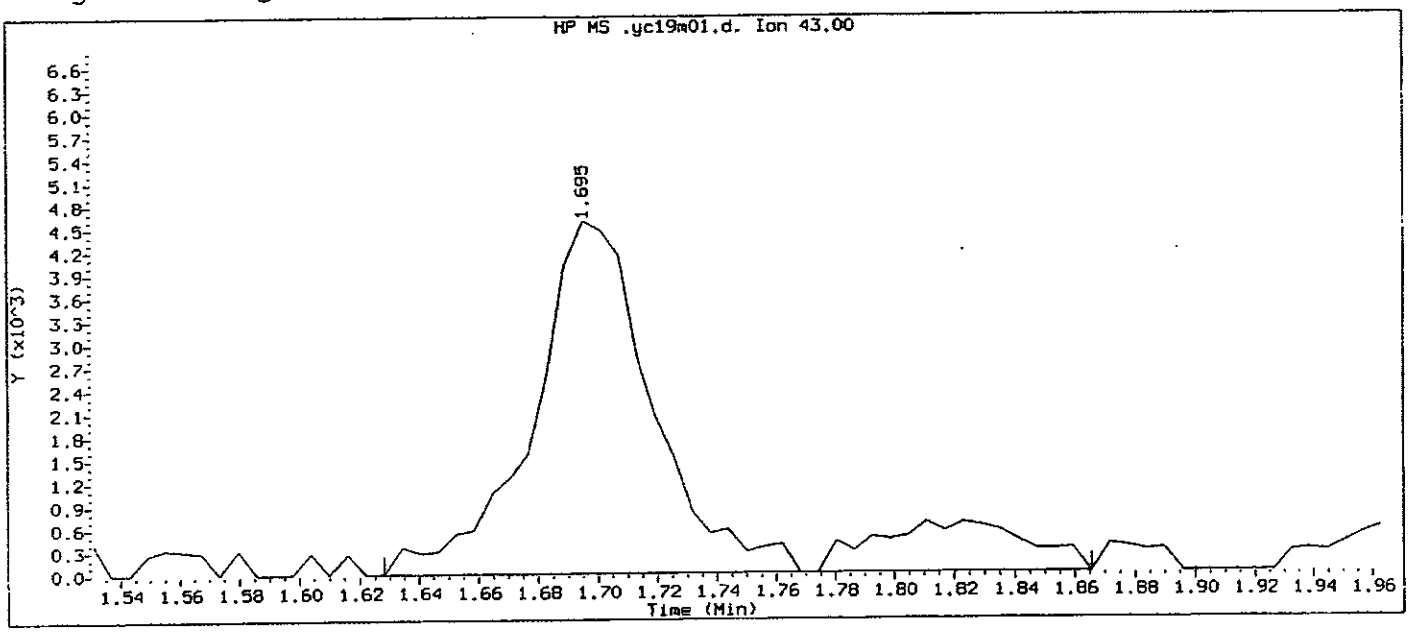
PTLB4 0243

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19m01.d, generated on 10/20/2009 at 03:55

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 01:40
Date, time and analyst ID of latest file update: 20-Oct-2009 01:57 Automation

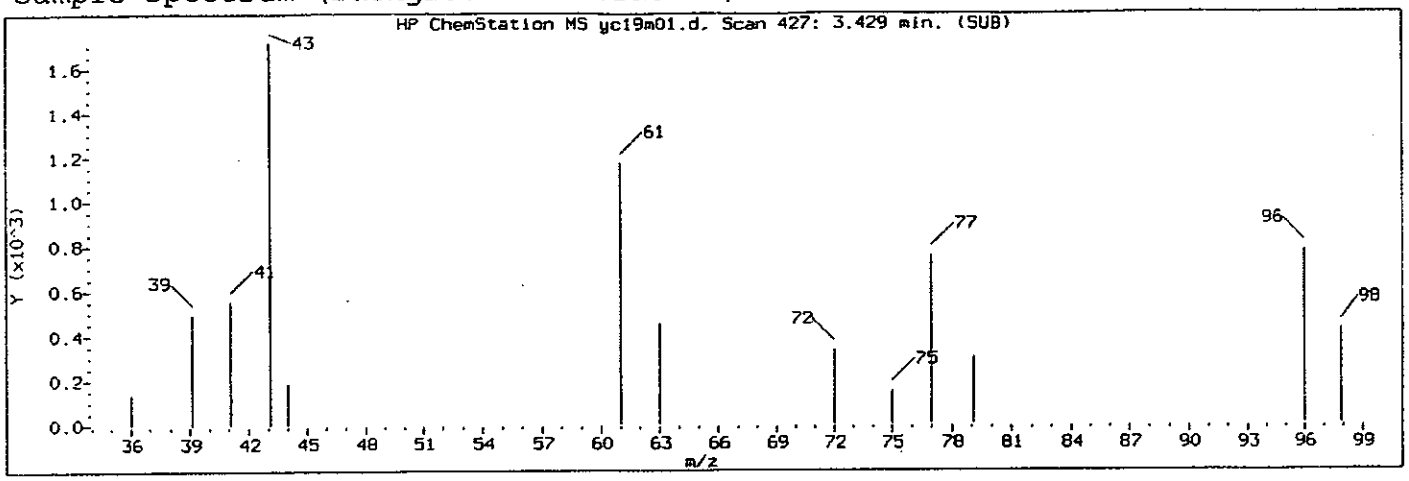
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 11
Compound Name : n-Pentane
Scan Number : 142
Retention Time (minutes): 1.695
Quant Ion : 43
Area : 15084
Concentration (ug/L) : 1.1159
Integration start scan : 130 Integration stop scan: 169
Y at integration start : 0 Y at integration end: 0

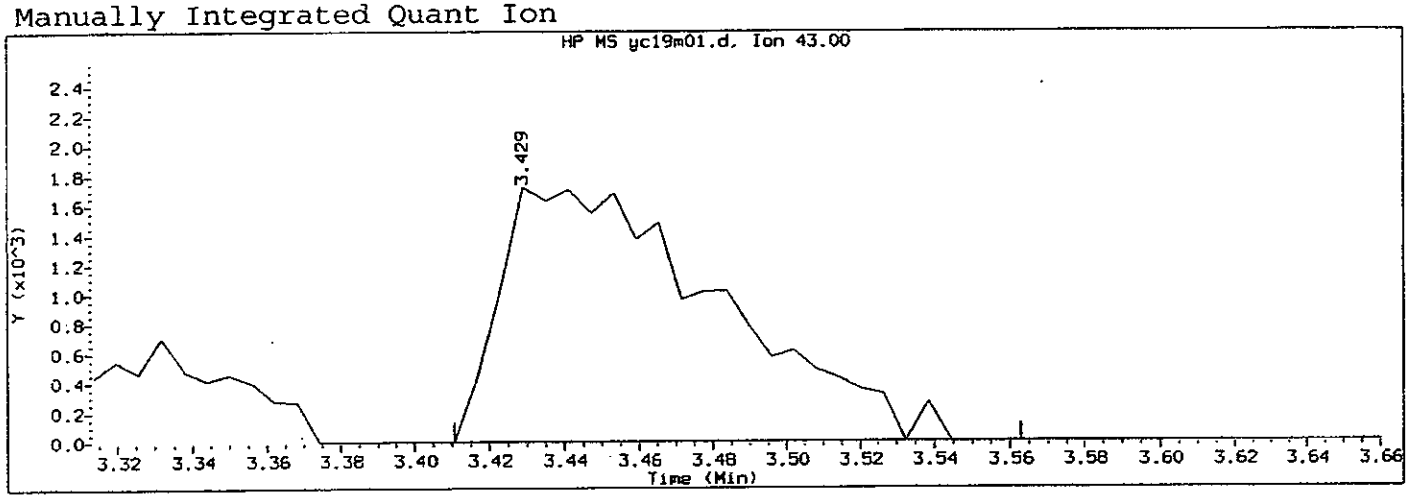
PTL84 0244

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19m01.d, generated on 10/20/2009 at 03:55

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 02:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:55 hb01996

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 41
Compound Name : 2-Butanone
Scan Number : 427
Retention Time (minutes): 3.429
Quant Ion : 43
Area (flag) : 7086 M
Concentration (ug/L) : 1.7884
Integration start scan : 423 Integration stop scan: 448
Y at integration start : 0 Y at integration end: 0

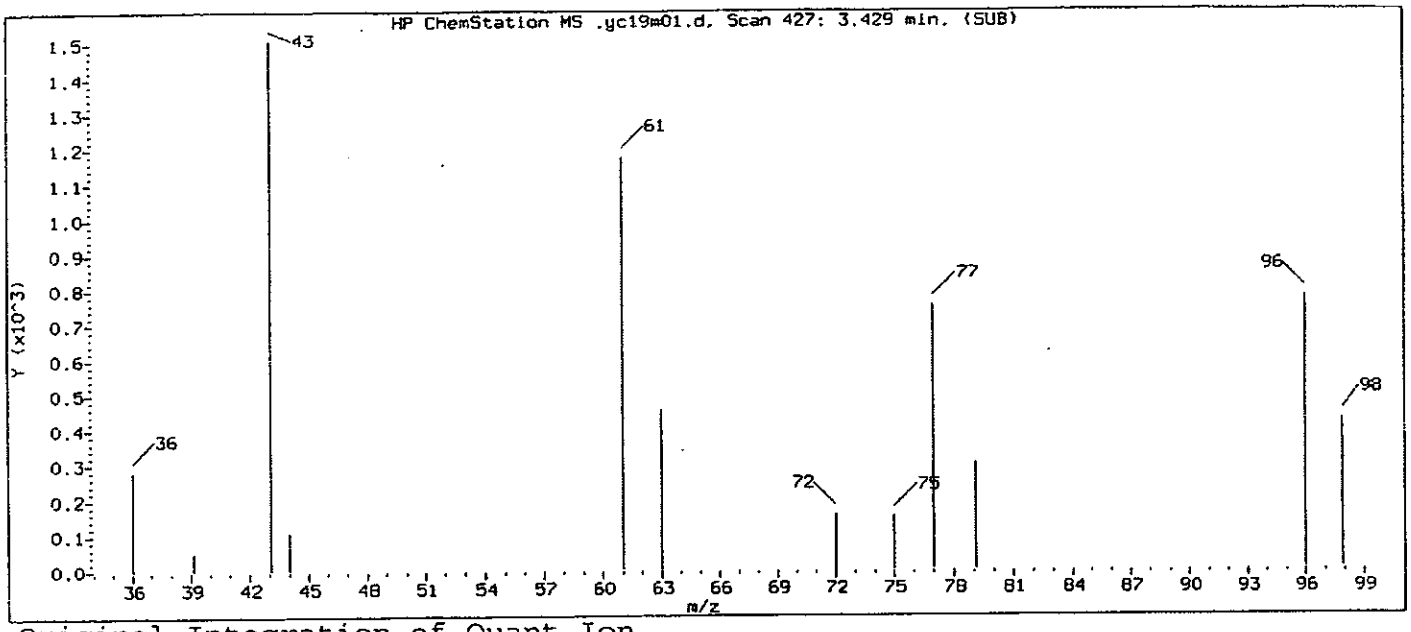
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MB1996 10/20/09

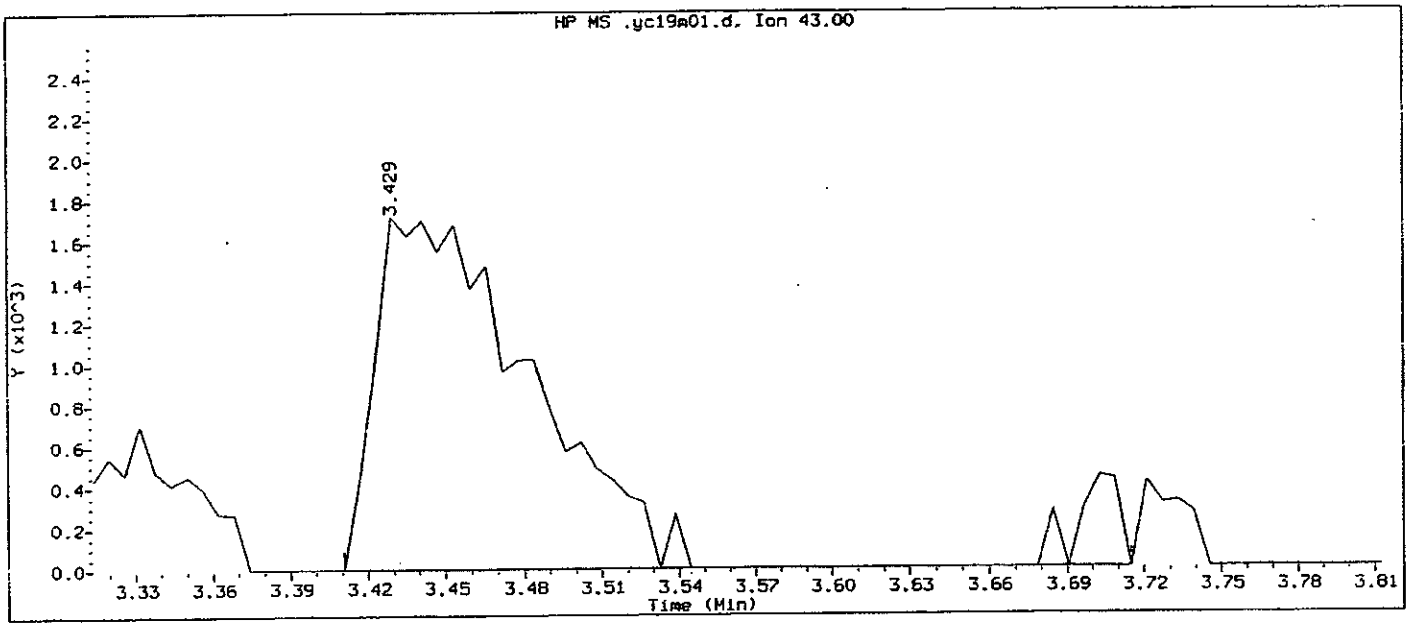
GC/MS audit/management approval: DMillsw 11/20/09 PTL04 8245

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19m01.d, generated on 10/20/2009 at 03:55

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 01:40
Date, time and analyst ID of latest file update: 20-Oct-2009 01:57 Automation

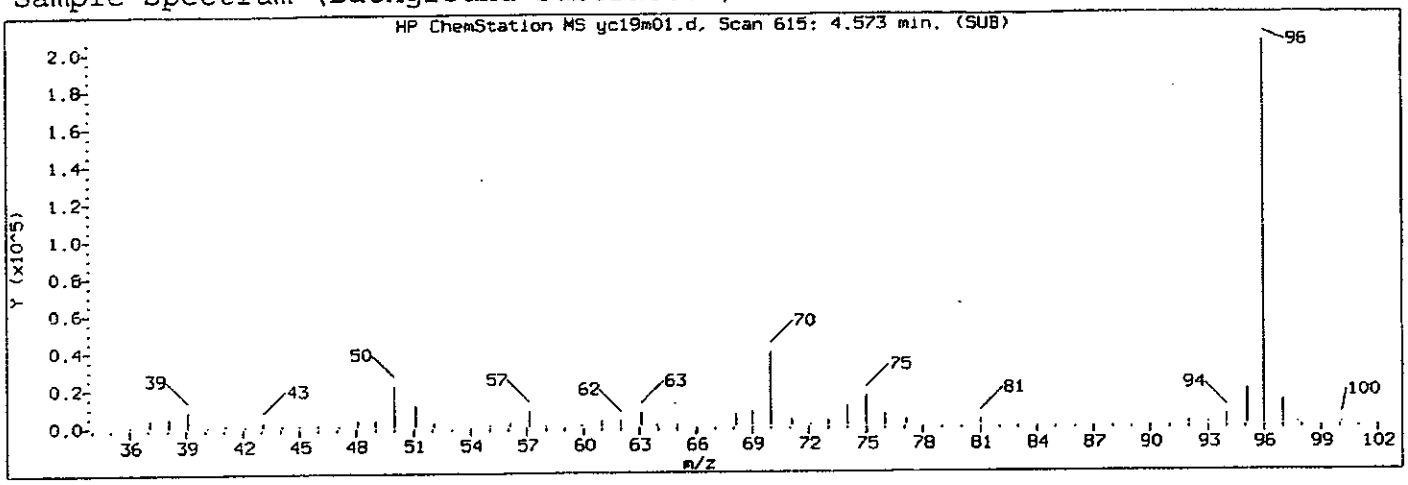
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 41
Compound Name : 2-Butanone
Scan Number : 427
Retention Time (minutes): 3.429
Quant Ion : 43
Area : 7610
Concentration (ug/L) : 1.7808
Integration start scan : 423 Integration stop scan: 473
Y at integration start : 0 Y at integration end: 0

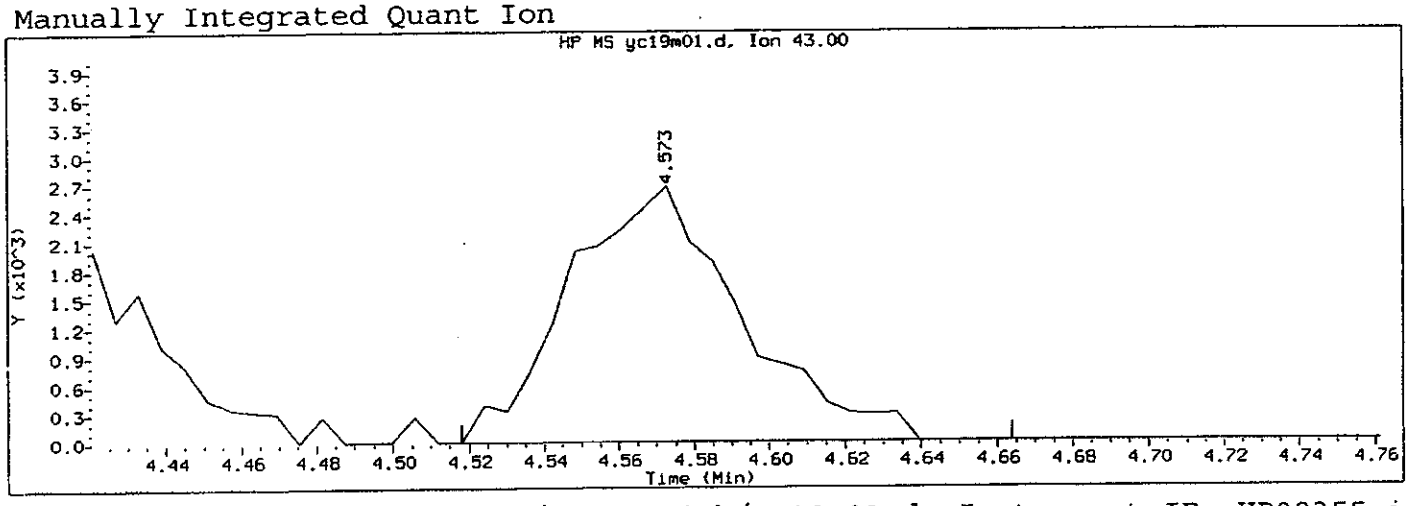
PTL04 0246

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19m01.d, generated on 10/20/2009 at 03:55

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 02:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:55 hb01996

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 72
Compound Name : n-Heptane
Scan Number : 615
Retention Time (minutes): 4.573
Quant Ion : 43
Area (flag) : 8500 M
Concentration (ug/L) : 0.8530
Integration start scan : 605 Integration stop scan: 629
Y at integration start : 0 Y at integration end: 0

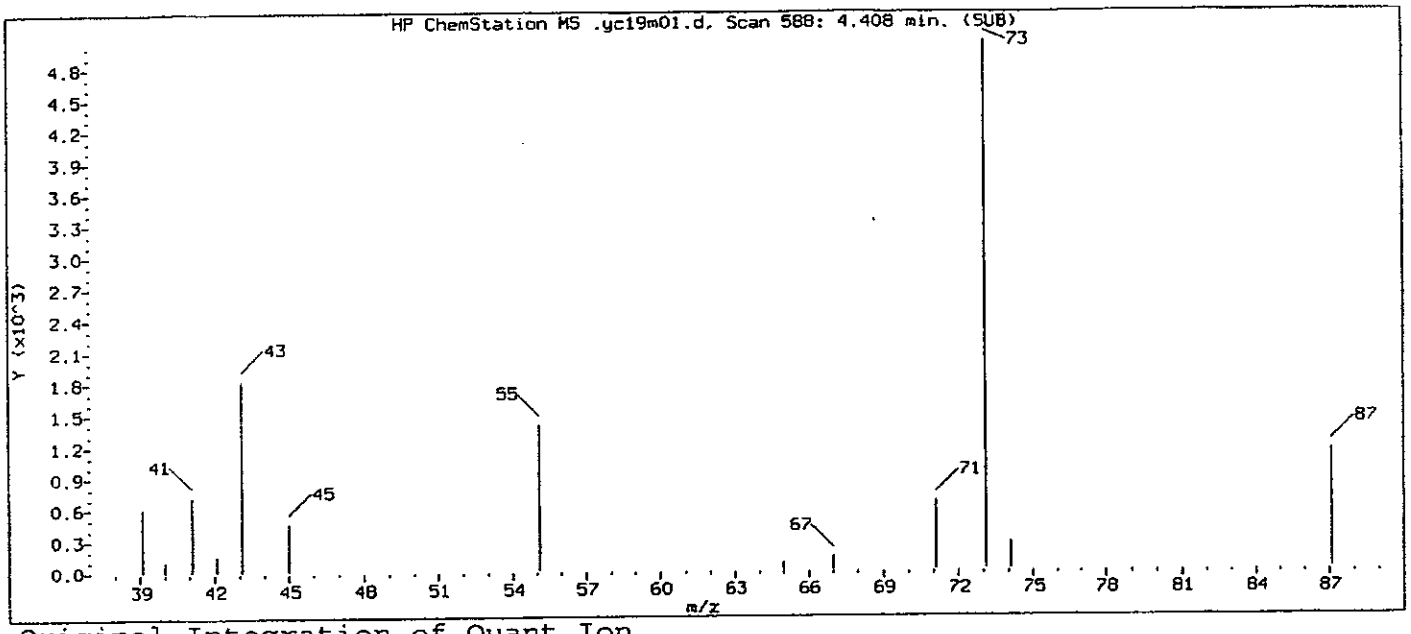
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: HB1996 10/20/09

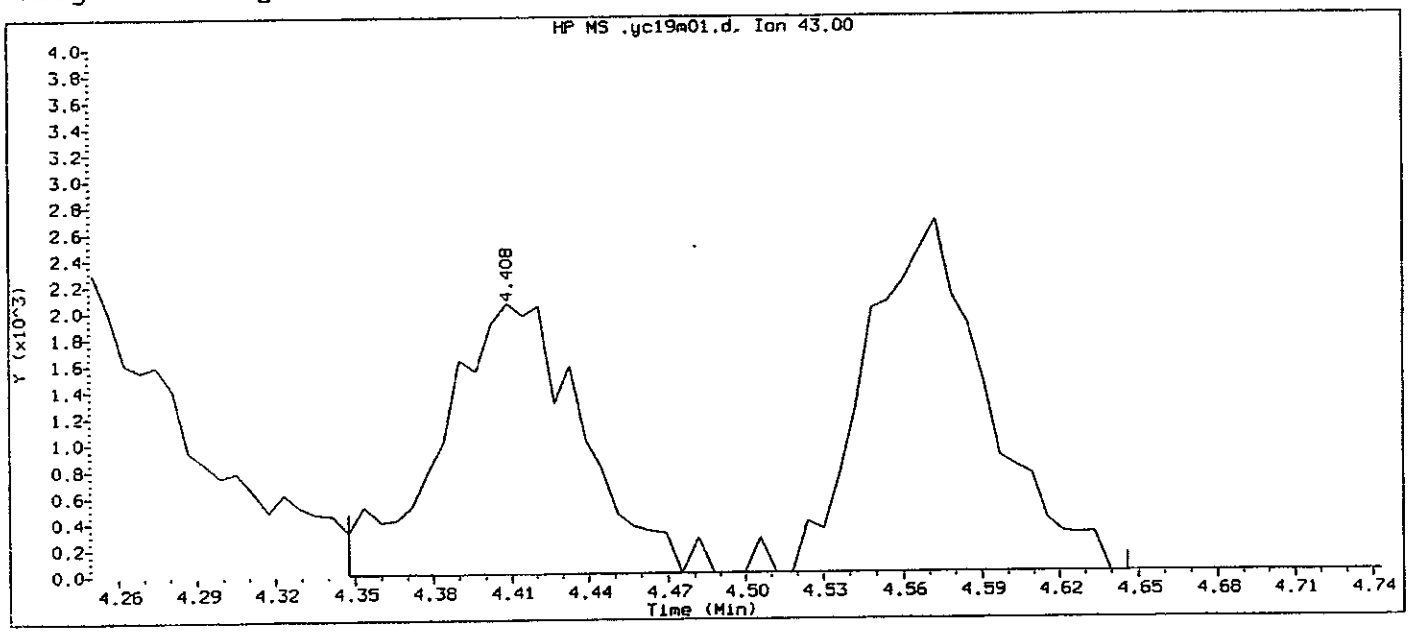
GC/MS audit/management approval: [illegible] 10/20/09 PTL84 0247

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19m01.d, generated on 10/20/2009 at 03:55

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 01:40
Date, time and analyst ID of latest file update: 20-Oct-2009 01:57 Automation

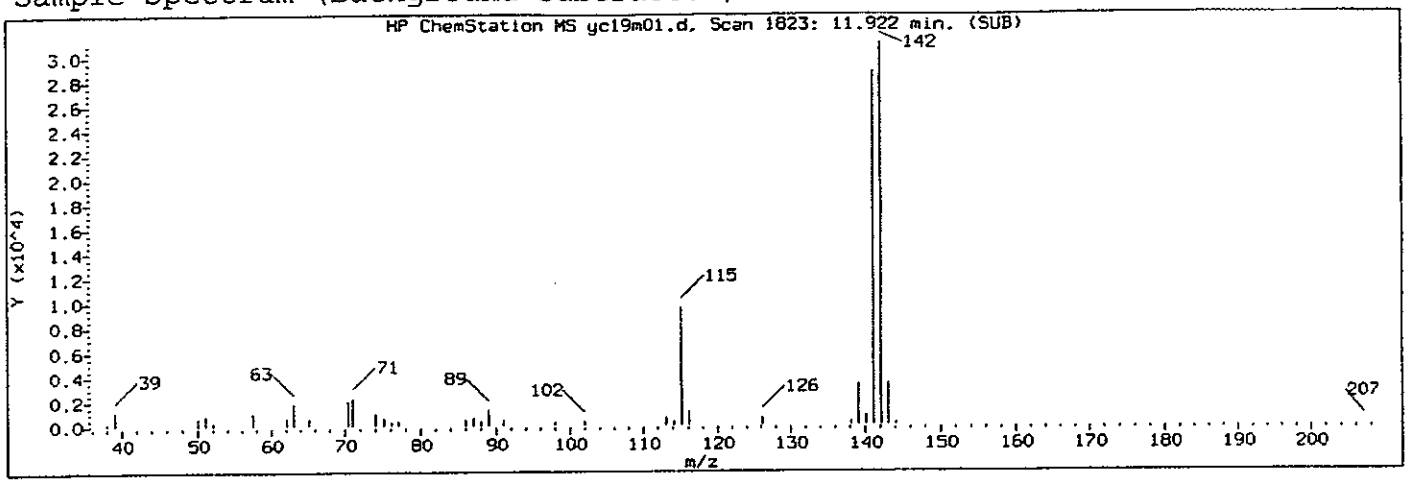
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 72
Compound Name : n-Heptane
Scan Number : 588
Retention Time (minutes): 4.408
Quant Ion : 43
Area : 16378
Concentration (ug/L) : 1.6323
Integration start scan : 577 Integration stop scan: 626
Y at integration start : 0 Y at integration end: 0

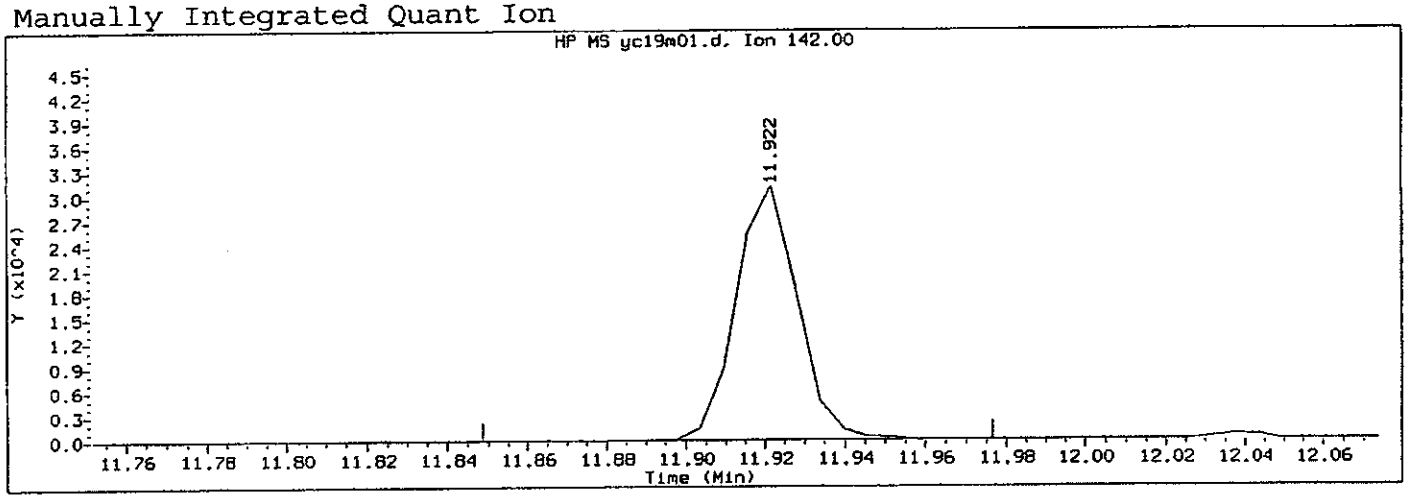
PTL04 0240

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19m01.d, generated on 10/20/2009 at 03:55

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 02:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:55 hb01996

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 154
Compound Name : 2-Methylnaphthalene
Scan Number : 1823
Retention Time (minutes): 11.922
Quant Ion : 142
Area (flag) : 33690 M
Concentration (ug/L) : 0.0000
Integration start scan : 1810 Integration stop scan: 1831
Y at integration start : 0 Y at integration end: 0

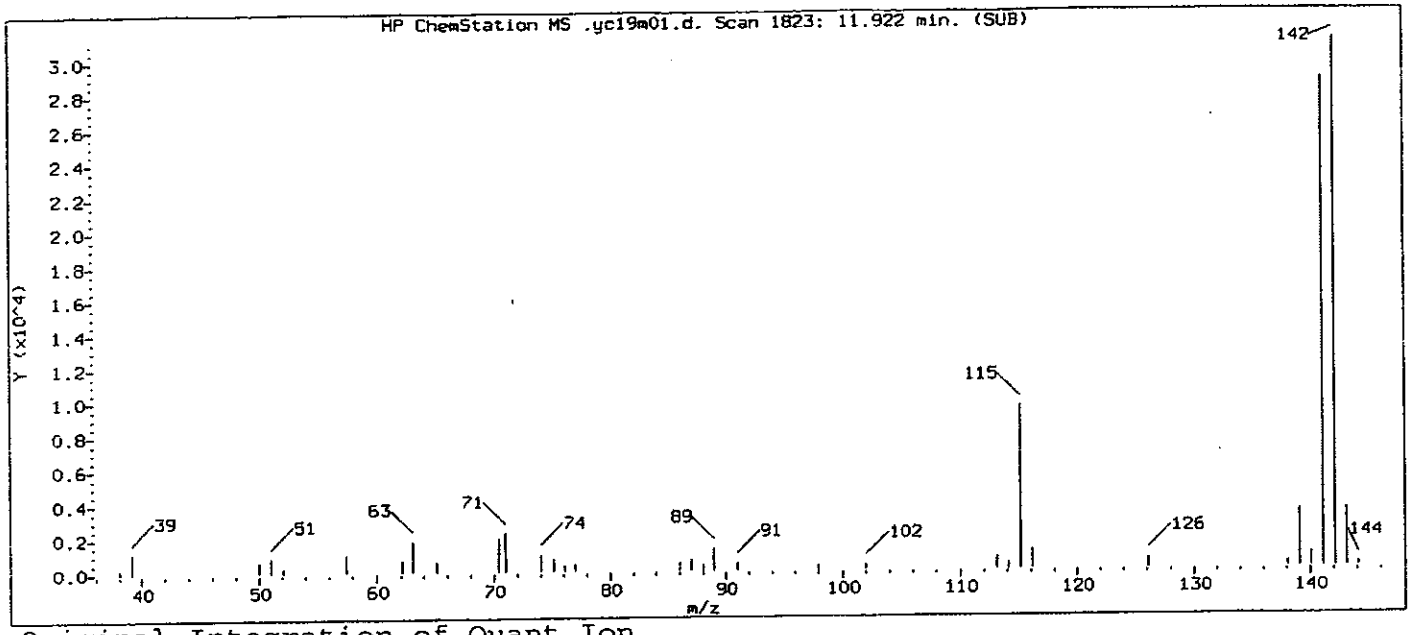
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: HB1996 10/20/09

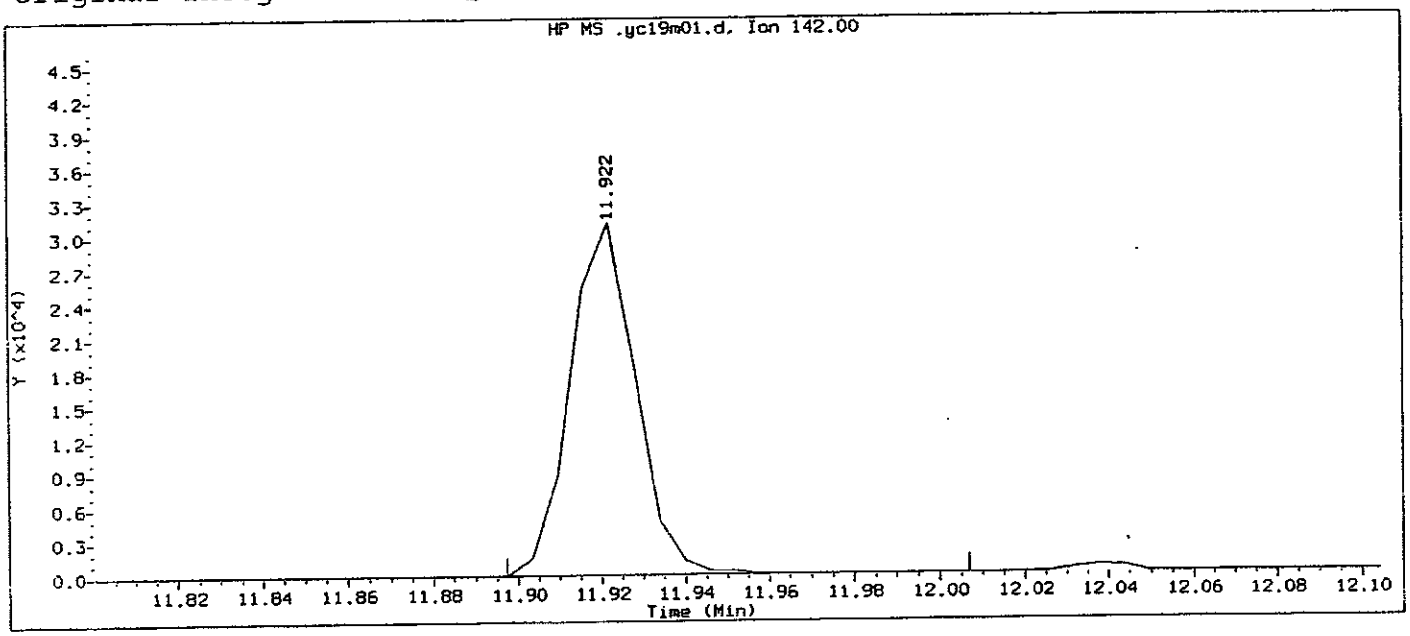
GC/MS audit/management approval: AAM118Co 102009 PTL84 8249

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19m01.d, generated on 10/20/2009 at 03:55

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19m01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 01:42 Analyst ID: MAZ02012

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 01:40
Date, time and analyst ID of latest file update: 20-Oct-2009 01:57 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 154
Compound Name : 2-Methylnaphthalene
Scan Number : 1823
Retention Time (minutes) : 11.922
Quant Ion : 142
Area : 33690
Concentration (ug/L) : 1.5172
Integration start scan : 1818 Integration stop scan: 1836
Y at integration start : 0 Y at integration end: 0

PTL84 8258

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19m01.d, generated on 10/20/2009 at 03:55

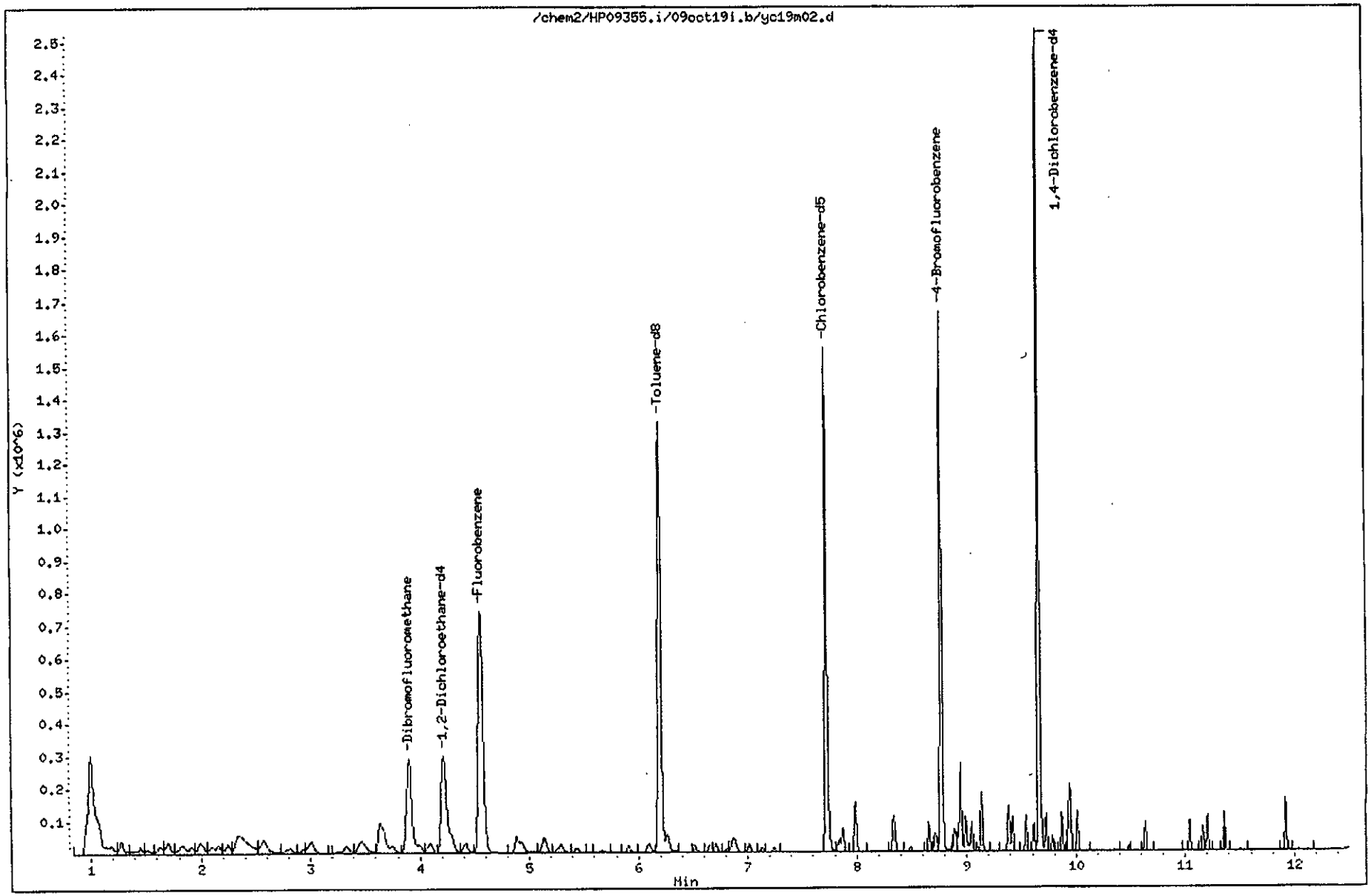
Data File: /chem2/HP09355.i/09oct19i.b/yo19m02.d
Date : 20-OCT-2009 03:18
Client ID: MDL002
Sample Info: MDL002;MDL002;1;3;MDL/LOQ;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: HB01996
Column diameter: 0.18

HB0996 10/20/09

FILE # 8251



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19m02.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:18 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 2MN
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:33 Automation

Sample Name: MDL002 Lab Sample ID: MDL002

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
71) *Fluorobenzene	(1)	4.555	96	1053628	50.000
106) *Chlorobenzene-d5	(2)	7.724	117	817001	50.000
136) *1,4-Dichlorobenzene-d4	(3)	9.665	152	512741	50.000
154) 2-Methylnaphthalene	(3)	11.922	142	54696	0.491
52) $Dibromofluoromethane	(1)	3.910	113	258288	48.100
62) $1,2-Dichloroethane-d4	(1)	4.214	102	64305	46.668
93) $Toluene-d8	(2)	6.197	98	1076545	47.536
119) $4-Bromofluorobenzene	(2)	8.770	95	407766	47.777

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

HB1996
10/20/09

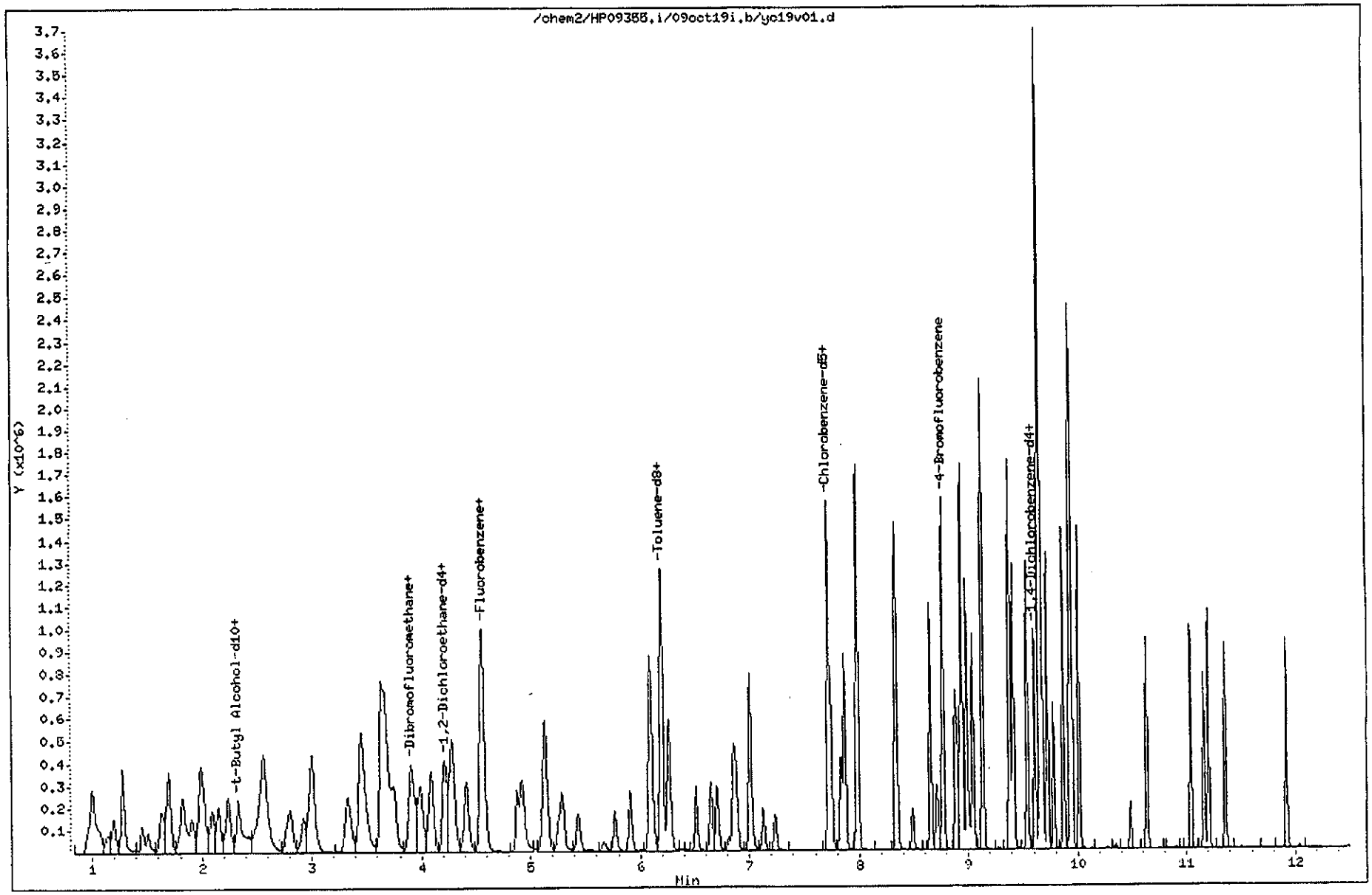
PTL# 0253

Page 1

Data File: /ohem2/HP09355.i/09oct19i.b/yc19v01.d
Date : 20-OCT-2009 03:39
Client ID: LCSYICV
Sample Info: LCSYICV;LCSYICV;1;3;LCS;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: HB01996
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:56 hb01996

Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.135	85	153344M	18.387
3) Chloromethane	(1)	1.196	50	162615	19.364
5) Vinyl Chloride	(1)	1.275	62	158091	19.819
4) 1,3-Butadiene	(1)	1.275	39	127332	21.786
7) Bromomethane	(1)	1.452	94	84032	16.978
8) Chloroethane	(1)	1.507	64	73446	16.967
9) Dichlorofluoromethane	(1)	1.829	67	133004	20.414
10) Trichlorofluoromethane	(1)	1.659	101	181977	19.788
11) n-Pentane	(1)	1.695	43	256830	18.602
13) Ethyl Ether	(1)	1.823	59	103980	21.060
14) Freon 123a	(1)	1.829	67	133004	20.484
15) Acrolein	(4)	1.908	56	220150	136.148
16) 1,1-Dichloroethene	(1)	1.987	96	103119	21.674
18) Freon 113	(1)	2.005	101	111306	20.947
17) Acetone	(1)	2.011	58	105842	139.611
20) Methyl Iodide	(1)	2.097	142	215388	21.176
21) 2-Propanol	(4)	2.066	45	100183	150.743
22) Carbon Disulfide	(1)	2.151	76	323734	21.092
24) Allyl Chloride	(1)	2.237	41	191741	20.822
25) Methyl Acetate	(1)	2.255	43	130678	21.345
26) Methylene Chloride	(1)	2.334	84	120888	21.685
28)*t-Butyl Alcohol-d10	(4)	2.358	65	204620	250.000
29) t-Butyl Alcohol	(4)	2.425	59	191176	181.435
30) Acrylonitrile	(1)	2.529	53	286073	96.694
31) trans-1,2-Dichloroethene	(1)	2.565	96	115872	21.520
32) Methyl Tertiary Butyl Ether	(1)	2.577	73	395846	21.004
33) n-Hexane	(1)	2.802	57	174881	20.397
45) 1,2-Dichloroethene (total)	(1)		96	238388	42.502
34) 1,1-Dichloroethane	(1)	2.924	63	212840	21.326
36) di-Isopropyl Ether	(1)	2.997	45	414840	20.950
37) 2-Chloro-1,3-Butadiene	(1)	3.009	53	201623	22.574
39) Ethyl t-Butyl Ether	(1)	3.332	59	391146	20.518
40) cis-1,2-Dichloroethene	(1)	3.453	96	122516	20.983
41) 2-Butanone	(1)	3.441	43	586302	146.696

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL04 0254

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:56 hb01996

Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
42) 2,2-Dichloropropane	(1)	3.459	77	177405	20.958
43) Propionitrile	(4)	3.490	54	173590	144.963
46) Methacrylonitrile	(1)	3.636	67	462510	152.803
47) Bromochloromethane	(1)	3.672	128	64823	20.835
48) Tetrahydrofuran	(4)	3.703	71	103175	98.110
50) Chloroform	(1)	3.751	83	204290	21.391
53) 1,1,1-Trichloroethane	(1)	3.934	97	207568	21.108
56) Cyclohexane	(1)	3.989	56	218556	20.886
57) 1,1-Dichloropropene	(1)	4.086	75	160679	21.184
58) Carbon Tetrachloride	(1)	4.092	117	150172	20.708
59) Isobutyl Alcohol	(4)	4.208	41	145348	461.696
63) Benzene	(1)	4.281	78	475988	21.138
65) 1,2-Dichloroethane	(1)	4.287	62	175403	21.093
69) t-Amyl Methyl Ether	(1)	4.408	73	366351M	20.426
72) n-Heptane	(1)	4.573	43	198320	19.731
71) *Fluorobenzene	(1)	4.554	96	1077630	50.000
73) n-Butanol	(4)	4.877	56	236692	893.821
74) Trichloroethene	(1)	4.926	95	121885	21.128
77) 1,2-Dichloropropane	(1)	5.138	63	123416	20.801
76) Methylcyclohexane	(1)	5.126	83	222075	21.199
80) Methyl Methacrylate	(1)	5.291	69	95396	19.938
78) Dibromomethane	(1)	5.260	93	75319	20.531
79) 1,4-Dioxane	(4)	5.284	88	37842	382.397
83) Bromodichloromethane	(1)	5.430	83	137680	19.871
85) 2-Nitropropane	(1)	5.668	41	29285	16.623
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	85199	20.624
87) cis-1,3-Dichloropropene	(1)	5.905	75	181556	20.251
89) 4-Methyl-2-Pentanone	(1)	6.087	43	861036	100.130
94) Toluene	(2)	6.264	92	305311	20.762
95) trans-1,3-Dichloropropene	(2)	6.513	75	172006	19.752
96) Ethyl Methacrylate	(2)	6.647	69	169518	19.690
97) 1,1,2-Trichloroethane	(2)	6.702	97	108340	20.528
98) Tetrachloroethene	(2)	6.860	166	151220	20.446
99) 1,3-Dichloropropane	(2)	6.884	76	187453	20.304

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:56 hb01996

Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
101) 2-Hexanone	(2)	7.006	43	607902	96.248
102) Dibromochloromethane	(2)	7.128	129	110234	19.305
104) 1,2-Dibromoethane	(2)	7.237	107	116252	20.411
106) *Chlorobenzene-d5	(2)	7.724	117	831326	50.000
107) Chlorobenzene	(2)	7.748	112	341513	20.328
108) 1,1,1,2-Tetrachloroethane	(2)	7.840	131	111811	19.581
109) Ethylbenzene	(2)	7.870	91	571468	20.125
110) m+p-Xylene	(2)	7.986	106	468325	40.632
112) Xylene (Total)	(2)		106	696063	60.741
113) o-Xylene	(2)	8.332	106	227738	20.109
114) Styrene	(2)	8.344	104	359403	20.138
115) Bromoform	(2)	8.490	173	75627	18.185
116) Isopropylbenzene	(2)	8.655	105	585689	20.285
118) Cyclohexanone	(4)	8.709	55	125387M	383.370
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	165026	19.751
124) trans-1,4-Dichloro-2-Butene	(3)	8.947	53	268242	98.532
121) Bromobenzene	(3)	8.880	156	158210	19.943
123) 1,2,3-Trichloropropane	(3)	8.922	110	52841	19.795
125) n-Propylbenzene	(3)	8.989	91	702732	20.054
126) 2-Chlorotoluene	(3)	9.044	126	148758	20.099
127) 1,3,5-Trimethylbenzene	(3)	9.135	105	515428	19.881
128) 4-Chlorotoluene	(3)	9.129	126	151222	19.934
130) tert-Butylbenzene	(3)	9.379	134	121866	19.880
131) Pentachloroethane	(3)	9.385	167	86569	19.446
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	522592	19.572
133) sec-Butylbenzene	(3)	9.543	105	656339	19.940
135) p-Isopropyltoluene	(3)	9.652	119	585148	19.609
134) 1,3-Dichlorobenzene	(3)	9.610	146	305556	19.674
136) *1,4-Dichlorobenzene-d4	(3)	9.665	152	529398	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	318588	19.704
139) 1,2,3-Trimethylbenzene	(3)	9.725	105	549056	19.959
141) Benzyl Chloride	(3)	9.780	91	321478	18.462
142) 1,3-Diethylbenzene	(3)	9.871	119	346922	19.806
143) 1,4-Diethylbenzene	(3)	9.932	119	353429	19.964

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL04 8256

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 19-OCT-2009 23:36
Date, time and analyst ID of latest file update: 20-Oct-2009 03:56 hb01996

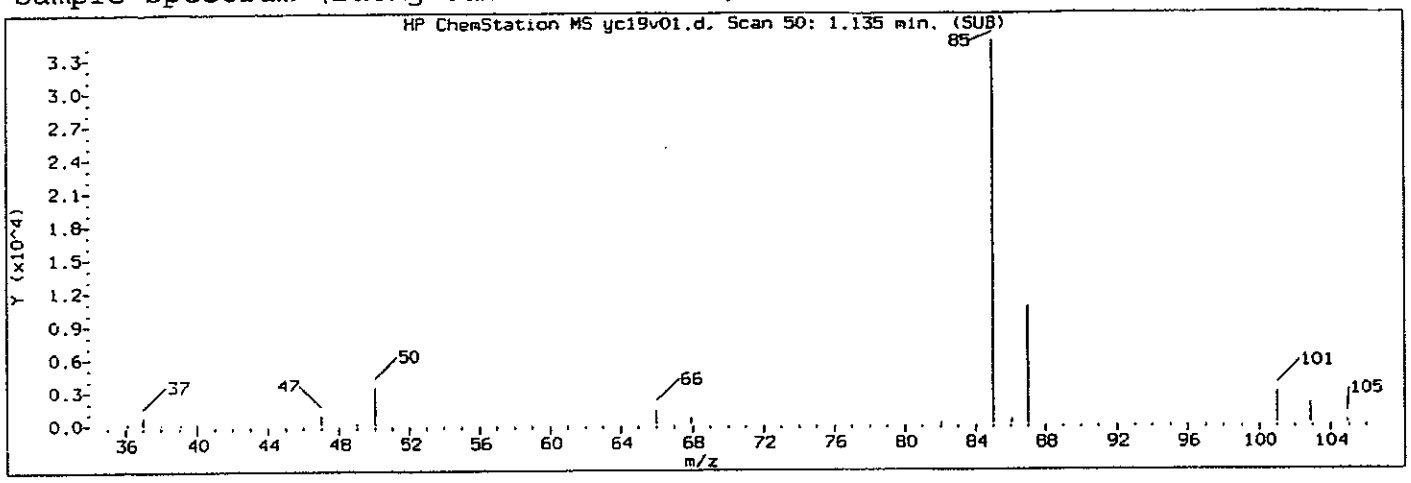
Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
145) n-Butylbenzene	(3)	9.951	92	287756	19.716
144) 1,2-Dichlorobenzene	(3)	9.944	146	303512	19.746
146) 1,2-Diethylbenzene	(3)	10.011	119	290341	19.825
148) 1,2-Dibromo-3-Chloropropane	(3)	10.486	75	32572	17.903
149) 1,3,5-Trichlorobenzene	(3)	10.632	180	224644	17.983
150) 1,2,4-Trichlorobenzene	(3)	11.046	180	238089	18.920
151) Hexachlorobutadiene	(3)	11.161	225	111623	18.625
152) Naphthalene	(3)	11.204	128	609161	18.183
153) 1,2,3-Trichlorobenzene	(3)	11.362	180	221495	18.385
154) 2-Methylnaphthalene	(3)	11.922	142	320518	12.744
52)$Dibromofluoromethane	(1)	3.903	113	255734	46.563
62)$1,2-Dichloroethane-d4	(1)	4.220	102	64911	46.058
93)$Toluene-d8	(2)	6.191	98	1074284	46.618
119)$4-Bromofluorobenzene	(2)	8.770	95	401512	46.234

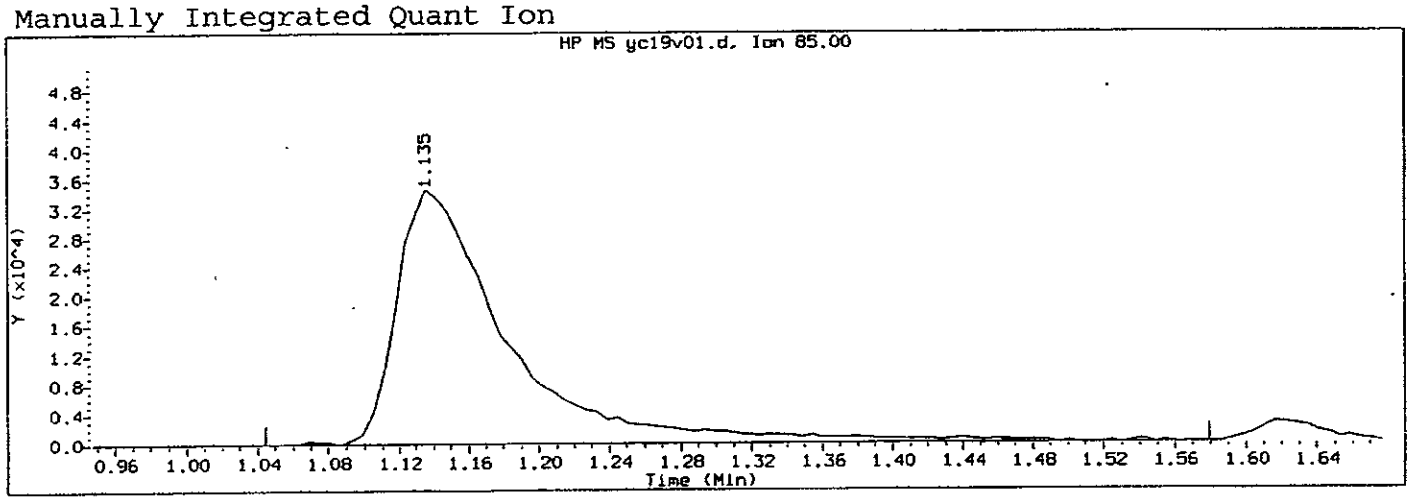
$ = Compound is a surrogate standard.

PTL84 B857

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 03:26
Date, time and analyst ID of latest file update: 20-Oct-2009 03:56 hb01996

Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compound Number : 2
Compound Name : Dichlorodifluoromethane
Scan Number : 50
Retention Time (minutes): 1.135
Quant Ion : 85
Area (flag) : 153344 M
Concentration (ug/L) : 18.3874
Integration start scan : 34 Integration stop scan: 122
Y at integration start : 0 Y at integration end: 0

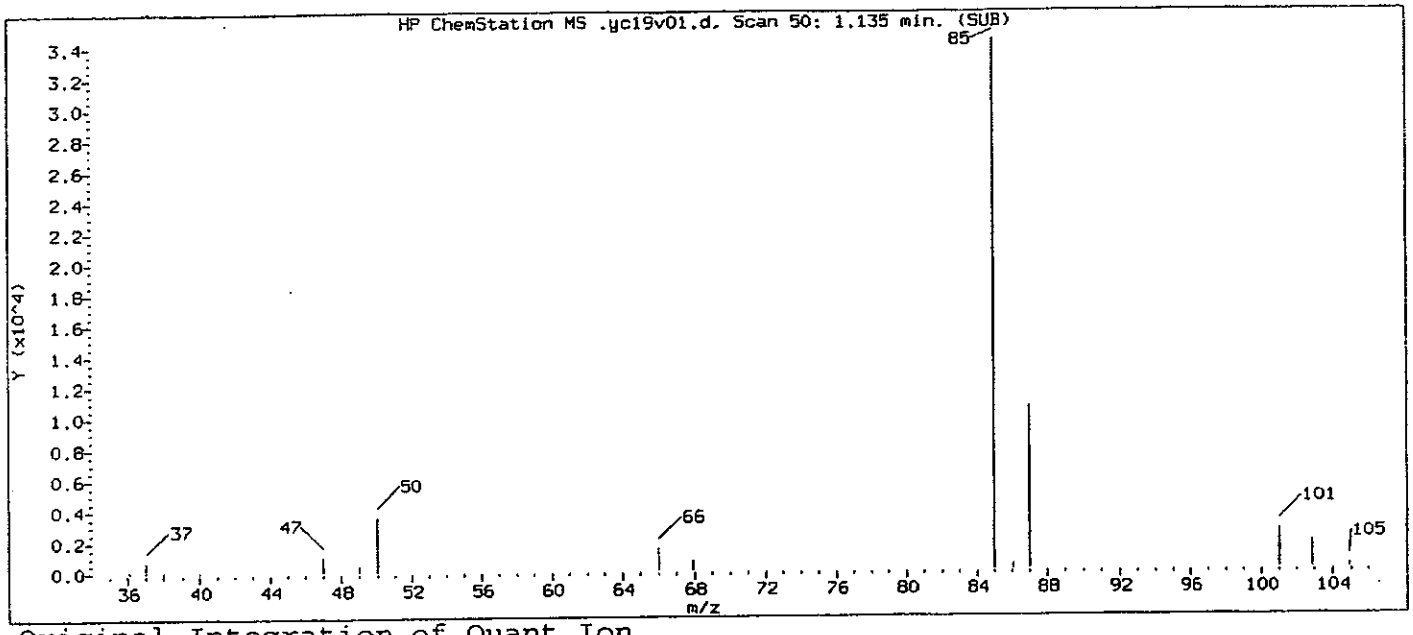
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: HB1996 10/20/09

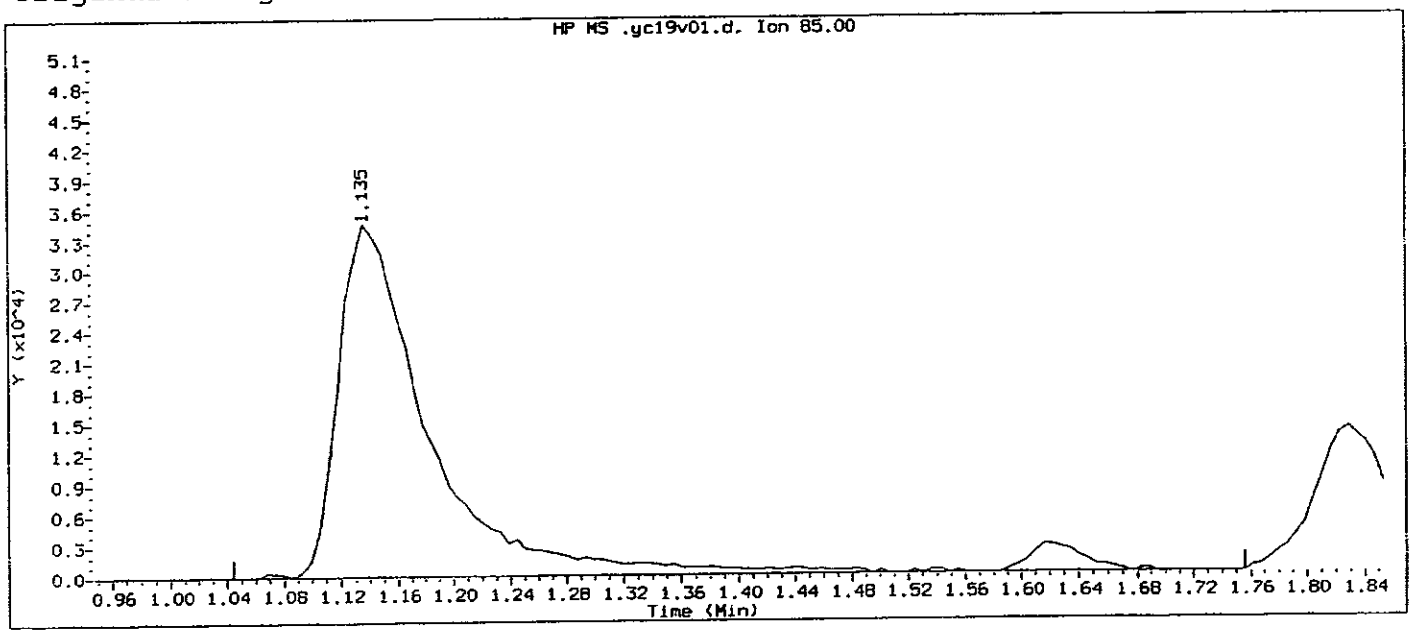
GC/MS audit/management approval: [illegible] 10/20/09 PTL04 0258

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19v01.d, generated on 10/20/2009 at 03:56

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 03:26
Date, time and analyst ID of latest file update: 20-Oct-2009 03:54 Automation

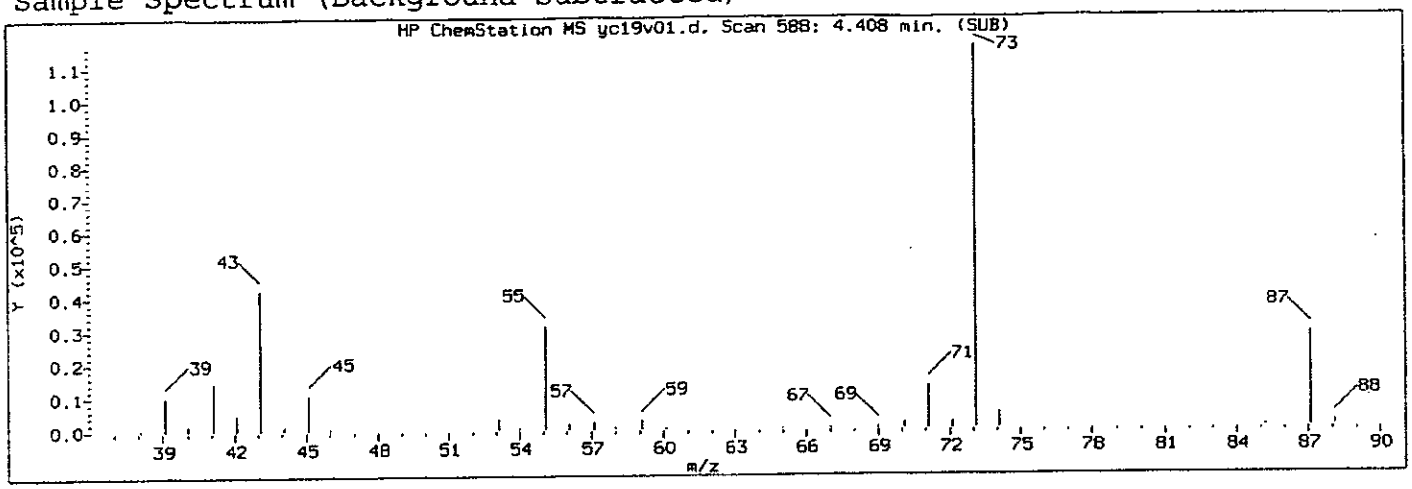
Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compound Number : 2
Compound Name : Dichlorodifluoromethane
Scan Number : 50
Retention Time (minutes): 1.135
Quant Ion : 85
Area : 160713
Concentration (ug/L) : 19.2710
Integration start scan : 34 Integration stop scan: 151
Y at integration start : 0 Y at integration end: 0

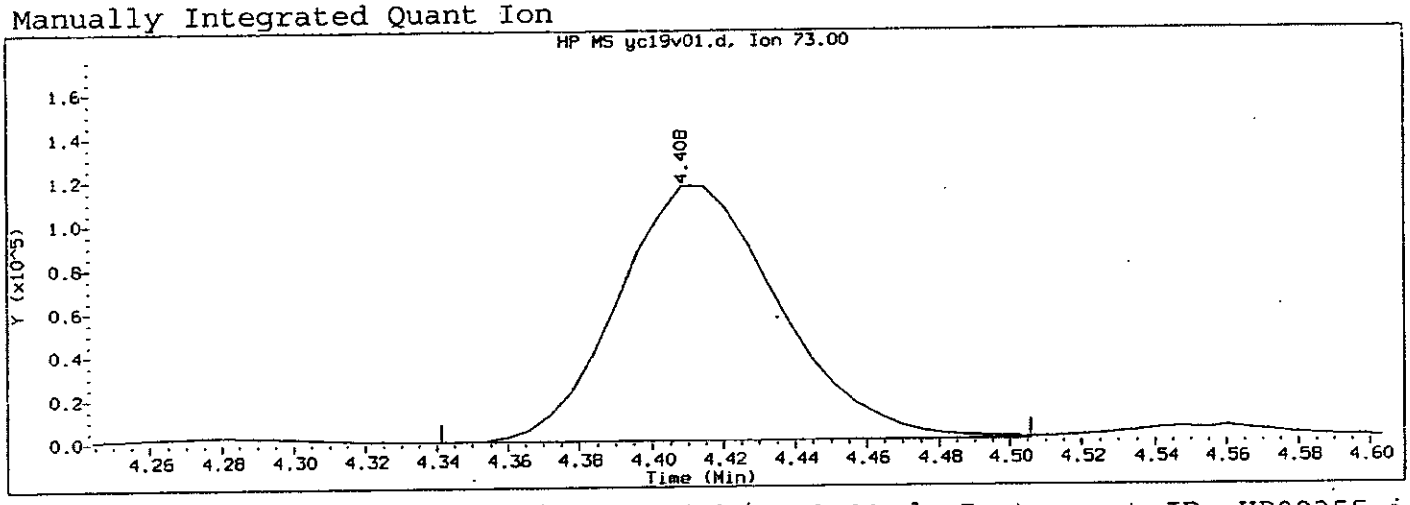
PT104 0259

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19v01.d, generated on 10/20/2009 at 03:56

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 03:26
Date, time and analyst ID of latest file update: 20-Oct-2009 03:56 hb01996

Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compound Number : 69
Compound Name : t-Amyl Methyl Ether
Scan Number : 588
Retention Time (minutes): 4.408
Quant Ion : 73
Area (flag) : 366351 M
Concentration (ug/L) : 20.4265
Integration start scan : 576 Integration stop scan: 603
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

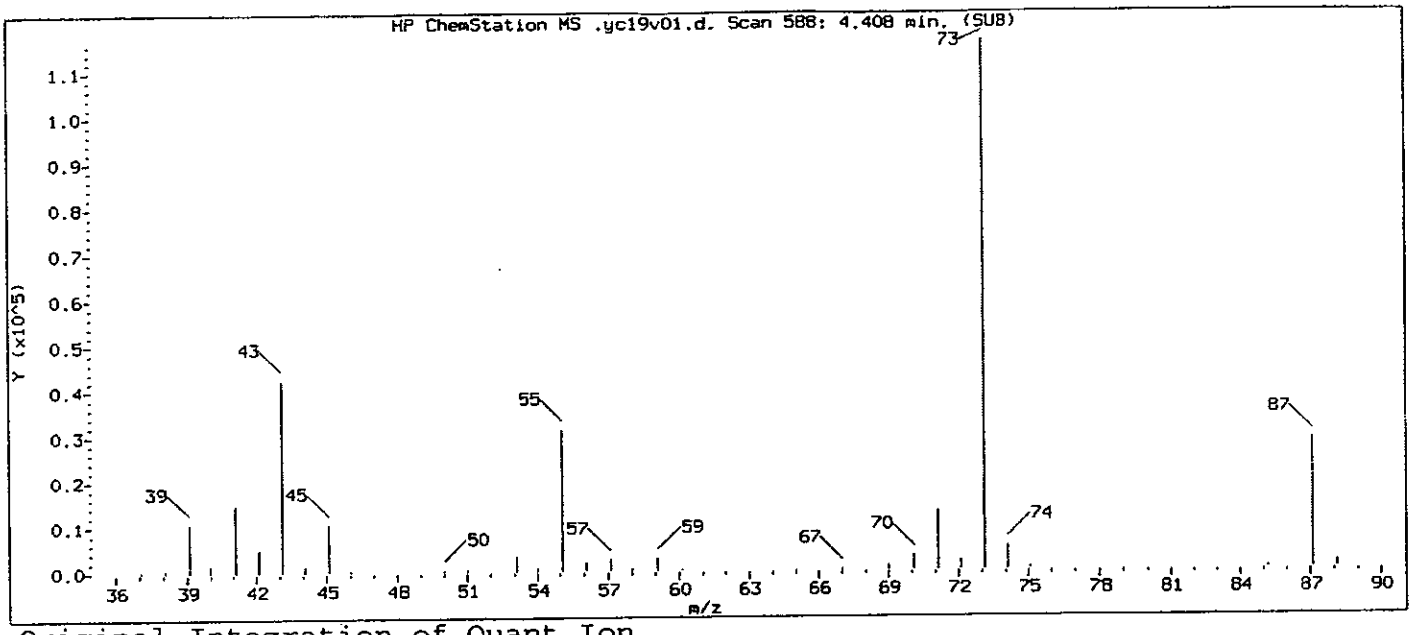
Analyst responsible for change: HB1996 10/20/09

GC/MS audit/management approval: [illegible] 102009

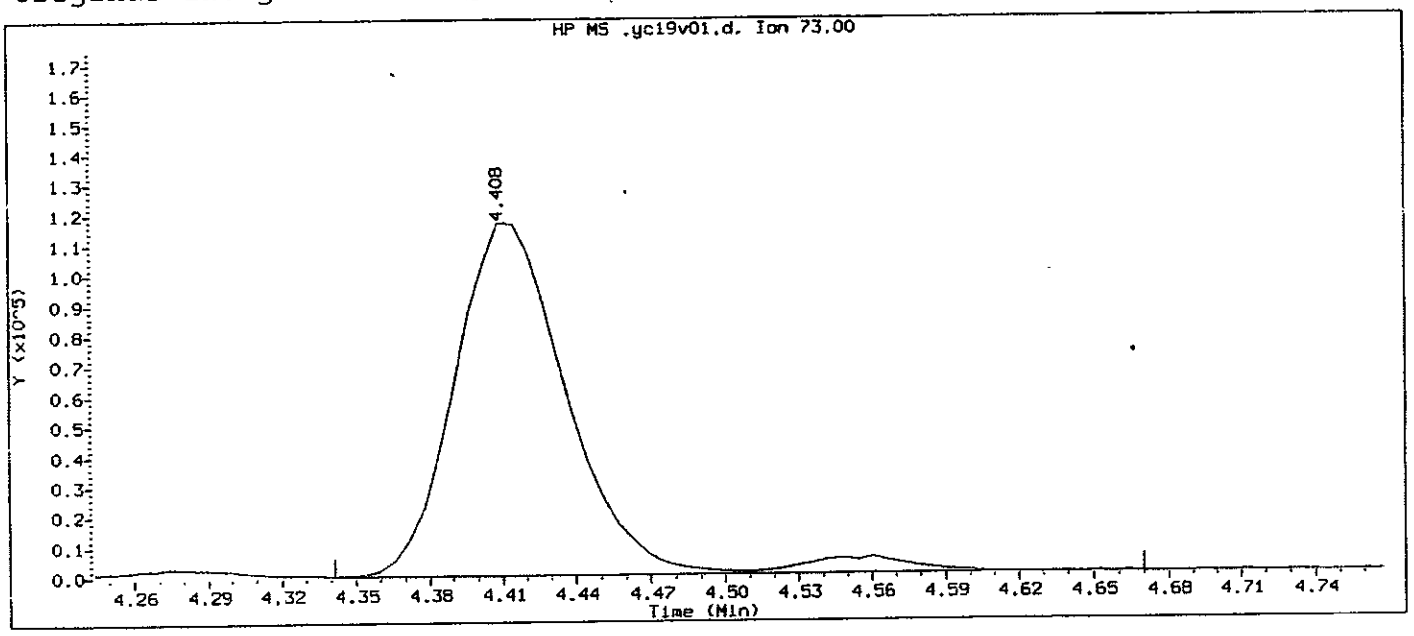
PTL04 0268

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19v01.d, generated on 10/20/2009 at 03:56

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 03:26
Date, time and analyst ID of latest file update: 20-Oct-2009 03:54 Automation

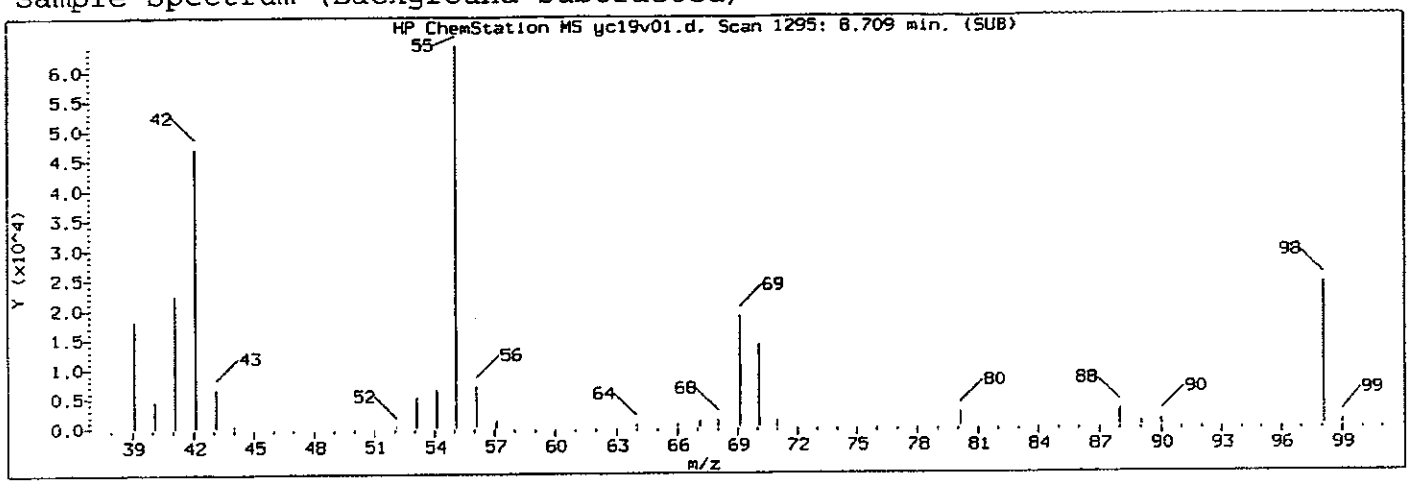
Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compound Number : 69
Compound Name : t-Amyl Methyl Ether
Scan Number : 588
Retention Time (minutes): 4.408
Quant Ion : 73
Area : 383485
Concentration (ug/L) : 21.3818
Integration start scan : 576 Integration stop scan: 630
Y at integration start : 0 Y at integration end: 0

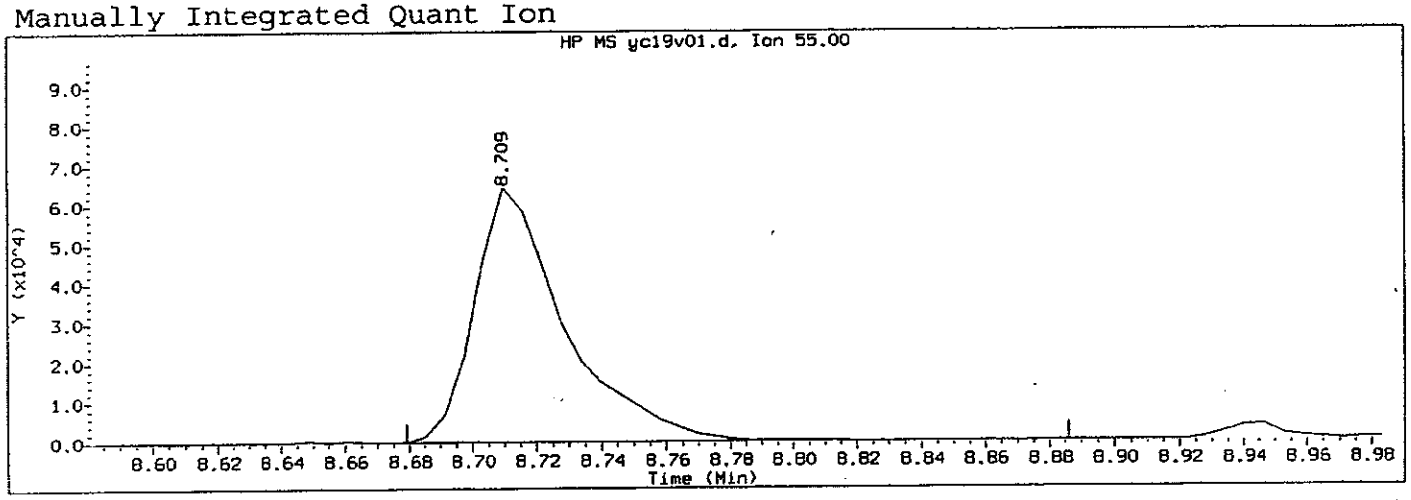
PTL84 8261

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19v01.d, generated on 10/20/2009 at 03:56

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 03:26
Date, time and analyst ID of latest file update: 20-Oct-2009 03:56 hb01996

Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compound Number : 118
Compound Name : Cyclohexanone
Scan Number : 1295
Retention Time (minutes): 8.709
Quant Ion : 55
Area (flag) : 125387 M
Concentration (ug/L) : 383.3700
Integration start scan : 1289 Integration stop scan: 1323
Y at integration start : 0 Y at integration end: 0

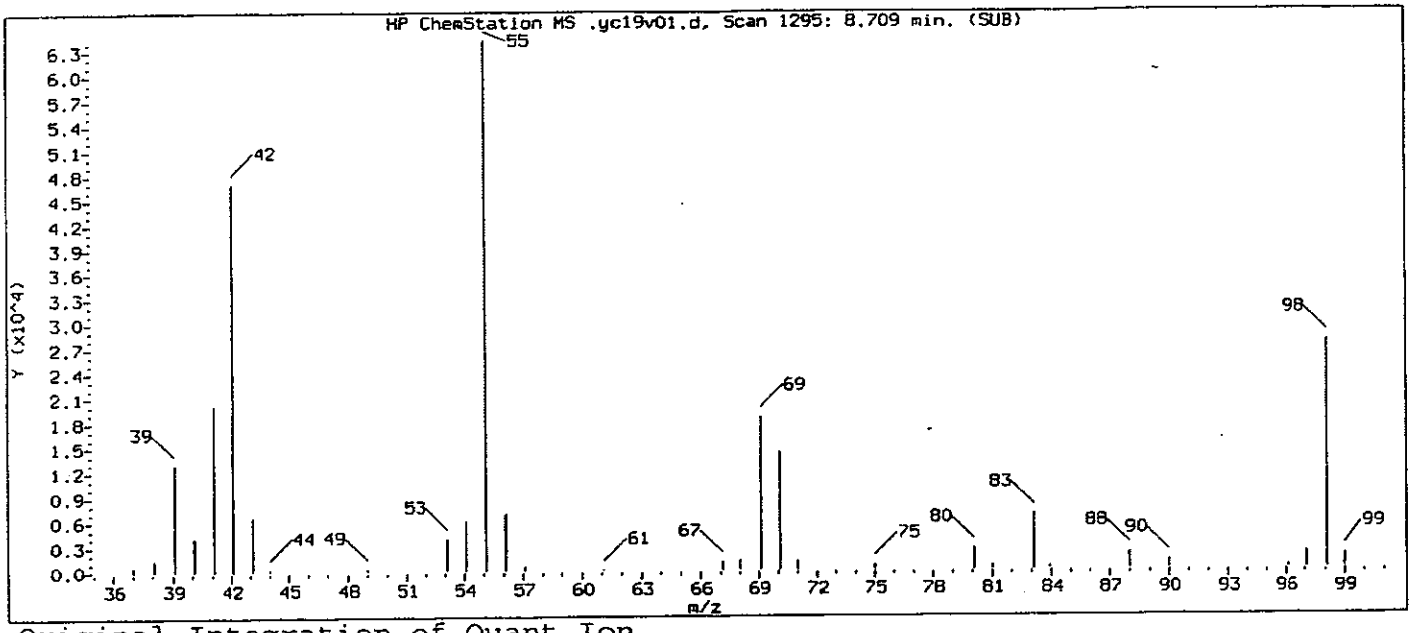
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MB1996 10/20/09

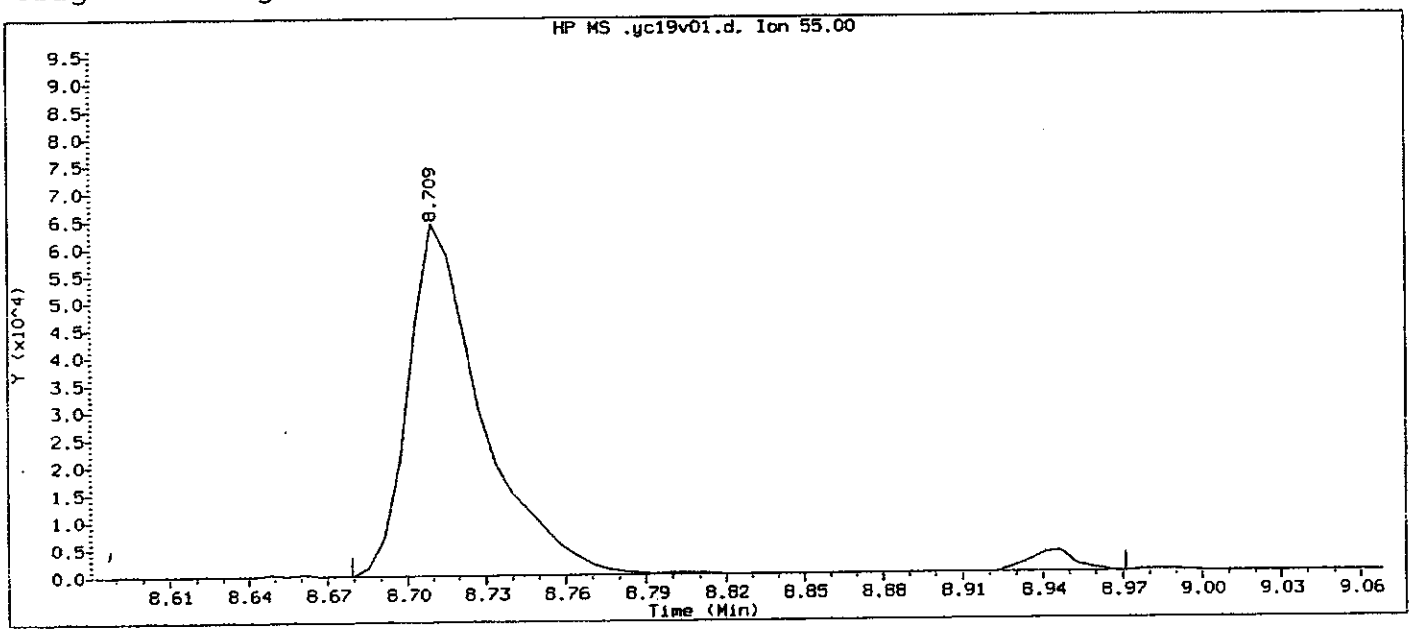
GC/MS audit/management approval: [illegible] 10/20/09 PTL84 8262

Manual Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19v01.d, generated on 10/20/2009 at 03:56

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09oct19i.b/yc19v01.d Instrument ID: HP09355.i
Injection date and time: 20-OCT-2009 03:39 Analyst ID: HB01996

Method used: /chem2/HP09355.i/09oct19i.b/Y8260W.m Sublist used: 8260W
Calibration date and time: 20-OCT-2009 03:26
Date, time and analyst ID of latest file update: 20-Oct-2009 03:54 Automation

Sample Name: LCSYICV Lab Sample ID: LCSYICV

Compound Number : 118
Compound Name : Cyclohexanone
Scan Number : 1295
Retention Time (minutes): 8.709
Quant Ion : 55
Area : 130085
Concentration (ug/L) : 397.7333
Integration start scan : 1289 Integration stop scan: 1337
Y at integration start : 0 Y at integration end: 0

PTL84 8263

Original Integration Report for data file /chem2/HP09355.i/09oct19i.b/yc19v01.d, generated on 10/20/2009 at 03:56

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 Calibration Date: 12/10/09 Time: 15:22

Lab File ID: yd10c05.d Init. Calib. Date(s): 10/19/09 10/20/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.3869	0.4180	54.01	50	8	
#	Chloromethane	0.3896	0.4463	57.27	50	15	#
*	Vinyl Chloride	0.3701	0.4064	54.90	50	10	*
	Bromomethane	0.2296	0.2535	55.21	50	10	
	Chloroethane	0.2008	0.2217	55.20	50	10	
	Trichlorofluoromethane	0.4267	0.4520	52.97	50	6	
	Ethyl Ether	0.2291	0.1898	41.42	50	-17	
	Acrolein	1.9756	1.4442	365.52	500	-27	
*	1,1-Dichloroethene	0.2208	0.2287	51.79	50	4	*
	Freon 113	0.2465	0.2420	49.09	50	-2	
	Acetone	0.0352	0.0278	79.07	100	-21	
	Methyl Iodide	0.4719	0.4807	50.93	50	2	
	2-Propanol	0.8120	0.7853	241.78	250	-3	
	Carbon Disulfide	0.7122	0.7978	56.01	50	12	
	Allyl Chloride	0.4273	0.4815	56.35	50	13	
	Methyl Acetate	0.2841	0.2811	49.48	50	-1	
	Methylene Chloride	0.2587	0.2740	52.96	50	6	
	t-Butyl Alcohol	1.2874	1.1011	213.82	250	-14	
	Acrylonitrile	0.1373	0.1295	47.17	50	-6	
	trans-1,2-Dichloroethene	0.2498	0.2673	53.49	50	7	
	Methyl Tertiary Butyl Ether	0.8744	0.8835	50.52	50	1	
	n-Hexane	0.3978	0.3647	45.84	50	-8	
	1,2-Dichloroethene (total)	0.2604	0.2787	107.03	100	7	
#	1,1-Dichloroethane	0.4631	0.4971	53.67	50	7	#
	di-Isopropyl Ether	0.9187	0.9660	52.57	50	5	
	2-Chloro-1,3-Butadiene	0.4144	0.4508	54.39	50	9	
	Ethyl t-Butyl Ether	0.8845	0.8755	49.49	50	-1	
	cis-1,2-Dichloroethene	0.2709	0.2901	53.55	50	7	
	2-Butanone	0.1854	0.1697	91.54	100	-8	
	2,2-Dichloropropane	0.3927	0.4109	52.31	50	5	
	Propionitrile	1.4631	1.6427	280.70	250	12	
	Methacrylonitrile	0.1404	0.1427	126.99	125	2	
	Bromochloromethane	0.1444	0.1557	53.93	50	8	
	Tetrahydrofuran	1.2848	1.3763	107.12	100	7	
*	Chloroform	0.4431	0.4815	54.33	50	9	*
	1,1,1-Trichloroethane	0.4563	0.4528	49.62	50	-1	

PTL84 8264

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 Calibration Date: 12/10/09 Time: 15:22

Lab File ID: yd10c05.d Init. Calib. Date(s): 10/19/09 10/20/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Cyclohexane	0.4855	0.4719	48.60	50	-3	
	Cyclohexane(mz 84)	0.4039	0.3890	48.15	50	-4	
	Cyclohexane(mz 69)	0.1431	0.1398	48.85	50	-2	
	1,1-Dichloropropene	0.3519	0.3699	52.55	50	5	
	Carbon Tetrachloride	0.3365	0.3770	56.02	50	12	
	Isobutyl Alcohol	0.3846	0.4119	669.28	625	7	
	Benzene	1.0448	1.1123	53.23	50	6	
	1,2-Dichloroethane	0.3858	0.4147	53.74	50	7	
	1,2-Dichloroethane(mz 98)	0.0322	0.0359	55.67	50	11	
	t-Amyl Methyl Ether	0.8321	0.8305	49.90	50	0	
	n-Heptane	0.4664	0.4226	45.31	50	-9	
	n-Butanol	0.3235	0.3345	1292.26	1250	3	
	Trichloroethene	0.2677	0.2840	53.06	50	6	
*	1,2-Dichloropropane	0.2753	0.2972	53.97	50	8	*
	Methylcyclohexane(mz98)	0.2269	0.2195	48.37	50	-3	
	Methylcyclohexane	0.4860	0.4815	49.53	50	-1	
	Methyl Methacrylate	0.2220	0.2287	51.52	50	3	
	Dibromomethane	0.1702	0.1794	52.71	50	5	
	1,4-Dioxane	0.1115	0.1023	536.43	625	-14	
	Bromodichloromethane	0.3215	0.3624	56.36	50	13	
	2-Nitropropane	0.0817	0.0912	111.55	100	12	
	2-Chloroethyl Vinyl Ether	0.1917	0.1904	49.66	50	-1	
	cis-1,3-Dichloropropene	0.4160	0.4470	53.72	50	7	
	4-Methyl-2-Pentanone	0.3990	0.3763	94.31	100	-6	
*	Toluene	0.8844	0.9618	54.38	50	9	*
	trans-1,3-Dichloropropene	0.5238	0.5918	56.49	50	13	
	Ethyl Methacrylate	0.5178	0.5659	54.64	50	9	
	1,1,2-Trichloroethane	0.3174	0.3510	55.29	50	11	
	Tetrachloroethene	0.4448	0.4525	50.86	50	2	
	1,3-Dichloropropane	0.5553	0.6056	54.54	50	9	
	2-Hexanone	0.3799	0.3635	95.69	100	-4	
	Dibromochloromethane	0.3434	0.4059	59.09	50	18	
	1,2-Dibromoethane	0.3426	0.3734	54.50	50	9	
#	Chlorobenzene	1.0104	1.0996	54.41	50	9	#
	1,1,1,2-Tetrachloroethane	0.3434	0.3987	58.05	50	16	
*	Ethylbenzene	1.7079	1.8862	55.22	50	10	*

PTL04 0265

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 Calibration Date: 12/10/09 Time: 15:22

Lab File ID: yd10c05.d Init. Calib. Date(s): 10/19/09 10/20/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	m+p-Xylene	0.6932	0.7646	110.30	100	10	
	Xylene (Total)	0.6892	0.7577	164.91	150	10	
	o-Xylene	0.6811	0.7440	54.61	50	9	
	Styrene	1.0734	1.2136	56.53	50	13	
#	Bromoform	0.2518	0.3008	53.91	50	8	#
	Isopropylbenzene	1.7365	1.8837	54.24	50	8	
	Cyclohexanone	0.3996	0.3224	504.22	625	-19	
#	1,1,2,2-Tetrachloroethane	0.7891	0.8559	54.23	50	8	#
	trans-1,4-Dichloro-2-Butene	0.2571	0.2698	131.16	125	5	
	Bromobenzene	0.7492	0.7845	52.35	50	5	
	1,2,3-Trichloropropane	0.2521	0.2573	51.03	50	2	
	n-Propylbenzene	3.3096	3.5761	54.03	50	8	
	2-Chlorotoluene	0.6990	0.7215	51.61	50	3	
	1,3,5-Trimethylbenzene	2.4486	2.6508	54.13	50	8	
	4-Chlorotoluene	0.7165	0.7507	52.38	50	5	
	tert-Butylbenzene	0.5790	0.6015	51.94	50	4	
	Pentachloroethane	0.4205	0.5318	63.24	50	26	
	1,2,4-Trimethylbenzene	2.5218	2.7230	53.99	50	8	
	sec-Butylbenzene	3.1088	3.3037	53.14	50	6	
	p-Isopropyltoluene	2.8183	2.9529	52.39	50	5	
	1,3-Dichlorobenzene	1.4669	1.5185	51.76	50	4	
	1,4-Dichlorobenzene	1.5271	1.6026	52.47	50	5	
	1,2,3-Trimethylbenzene	2.5981	2.8232	54.33	50	9	
	Benzyl Chloride	1.6446	1.8300	55.64	50	11	
	1,3-Diethylbenzene	1.6543	1.7409	52.62	50	5	
	1,4-Diethylbenzene	1.6720	1.7459	52.21	50	4	
	n-Butylbenzene	1.3785	1.4567	52.84	50	6	
	1,2-Dichlorobenzene	1.4517	1.5353	52.88	50	6	
	1,2-Diethylbenzene	1.3832	1.4698	53.13	50	6	
	1,2-Dibromo-3-Chloropropane	0.1718	0.1764	51.34	50	3	
	1,2,4-Trichlorobenzene	1.1885	1.1457	48.20	50	-4	
	Hexachlorobutadiene	0.5660	0.5525	48.80	50	-2	
	Naphthalene	3.1641	3.1736	50.15	50	0	
	1,2,3-Trichlorobenzene	1.1379	1.0617	46.65	50	-7	
	2-Methylnaphthalene	2.0588	1.6315	39.92	50	-20	
	Dibromofluoromethane	0.2548	0.2420	47.48	50	-5	

PTL04 9266

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09355 Calibration Date: 12/10/09 Time: 15:22

Lab File ID: yd10c05.d Init. Calib. Date(s): 10/19/09 10/20/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dibromofluoromethane(mz111)	0.2596	0.2484	47.83	50	-4
1,2-Dichloroethane-d4	0.0654	0.0634	48.46	50	-3
1,2-Dichloroethane-d4(mz104)	0.0409	0.0379	46.33	50	-7
1,2-Dichloroethane-d4(mz65)	0.3405	0.3237	47.53	50	-5
Toluene-d8(mz100)	0.9114	0.8791	48.23	50	-4
4-Bromofluorobenzene(mz174)	0.4843	0.4784	49.40	50	-1
Toluene-d8	1.3860	1.3440	48.48	50	-3
4-Bromofluorobenzene	0.5223	0.5193	49.71	50	-1

Average %Drift 7

PTL04 0267

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

Lancaster Laboratories
Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem2/HP09355.i/09oct19i.b/yc19i06.d
/chem2/HP09355.i/09oct19i.b/yc19i05.d
/chem2/HP09355.i/09oct19i.b/yc19i04.d
/chem2/HP09355.i/09oct19i.b/yc19i03.d
/chem2/HP09355.i/09oct19i.b/yc19i07.d
/chem2/HP09355.i/09oct19i.b/yc19i01.d

File /chem2/HP09355.i/09oct19i.b/yc19i03.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem2/HP09355.i/09dec10b.b/yd10c05.d

RT Summary

Internal Standard Name	File ID: yd10c05.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	2.346	2.358	Yes
Fluorobenzene	4.548	4.554	Yes
Chlorobenzene-d5	7.724	7.718	Yes
1,4-Dichlorobenzene-d4	9.665	9.658	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal Standard Name	File ID: yd10c05.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	184860	213627	106814	427254	Yes
Fluorobenzene	1175523	1143665	571832	2287330	Yes
Chlorobenzene-d5	862020	871564	435782	1743128	Yes
1,4-Dichlorobenzene-d4	563115	546439	273220	1092878	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

PTL04 #268

Comments: _____

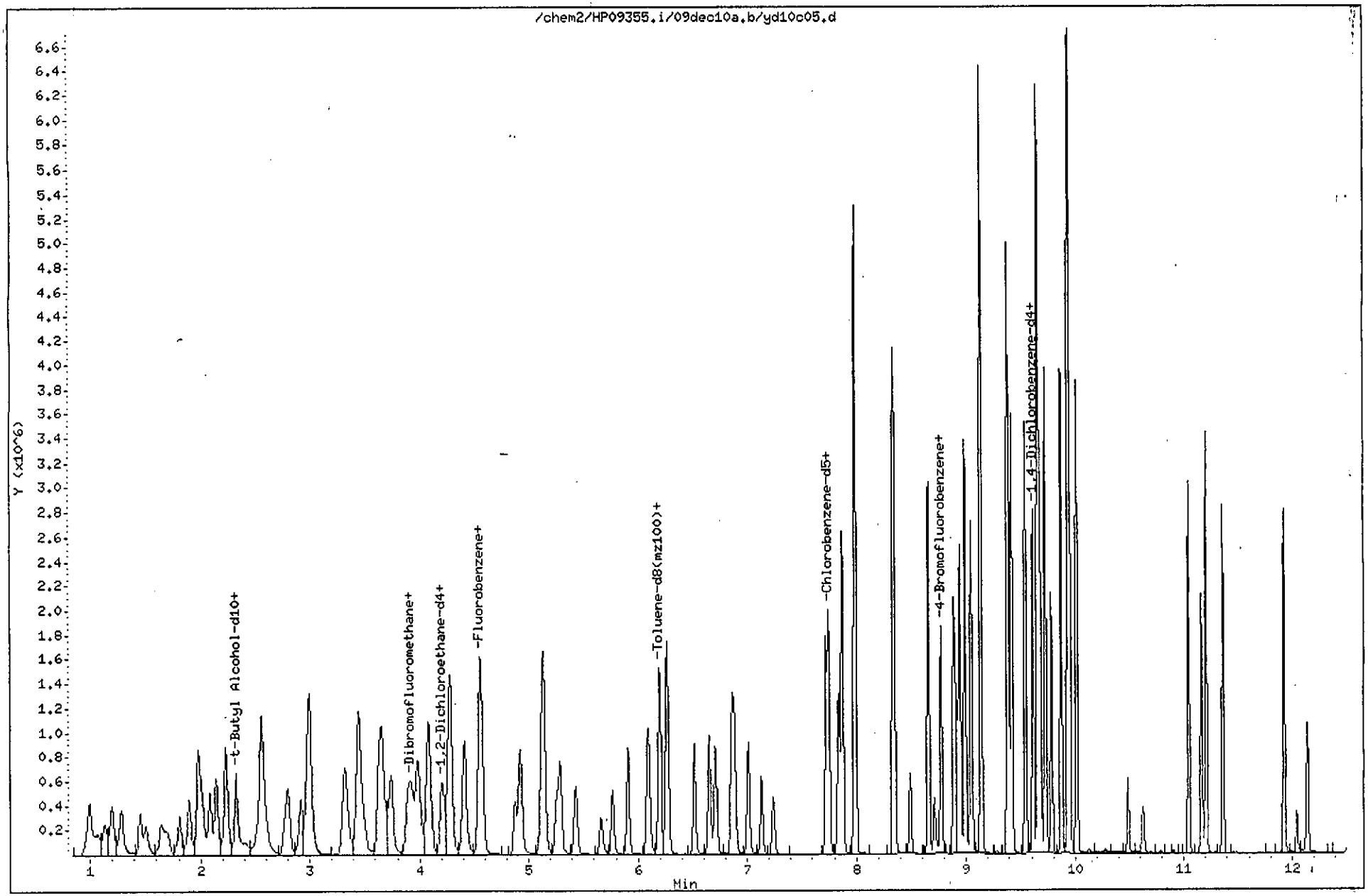
Data File: /chem2/HP09355.i/09dec10a.b/yd10c05.d
Date : 10-DEC-2009 15:22
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;2;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18

MB/2nd 12/10/09

PTE84 8269



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 15:53 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.136	85	491351	54.011
3) Chloromethane	(1)	1.196	50	524617	57.268
5) Vinyl Chloride	(1)	1.288	62	477692	54.899
7) Bromomethane	(1)	1.458	94	298050	55.205
8) Chloroethane	(1)	1.507	64	260635	55.196
10) Trichlorofluoromethane	(1)	1.647	101	531377	52.968
13) Ethyl Ether	(1)	1.811	59	223076	41.419
15) Acrolein	(4)	1.896	56	533965	365.519
16) 1,1-Dichloroethene	(1)	1.975	96	268789	51.791
18) Freon 113	(1)	2.006	101	284518	49.086
17) Acetone	(1)	1.999	58	65390	79.070
20) Methyl Iodide	(1)	2.085	142	565130	50.933
21) 2-Propanol	(4)	2.091	45	145166	241.776
22) Carbon Disulfide	(1)	2.145	76	937791	56.010
24) Allyl Chloride	(1)	2.231	41	566036M	56.350
25) Methyl Acetate	(1)	2.243	43	330435M	49.478
26) Methylene Chloride	(1)	2.322	84	322070	52.962
28)*t-Butyl Alcohol-d10	(4)	2.346	65	184860	250.000
29) t-Butyl Alcohol	(4)	2.407	59	203543	213.820
30) Acrylonitrile	(1)	2.517	53	152235	47.171
31) trans-1,2-Dichloroethene	(1)	2.553	96	314171	53.489
32) Methyl Tertiary Butyl Ether	(1)	2.565	73	1038573	50.518
33) n-Hexane	(1)	2.796	57	428766	45.843
45) 1,2-Dichloroethene (total)	(1)		96	655224	107.035
34) 1,1-Dichloroethane	(1)	2.918	63	584298	53.669
36) di-Isopropyl Ether	(1)	2.991	45	1135610	52.574
37) 2-Chloro-1,3-Butadiene	(1)	3.003	53	529925	54.390
39) Ethyl t-Butyl Ether	(1)	3.326	59	1029138	49.488
40) cis-1,2-Dichloroethene	(1)	3.441	96	341053	53.546
41) 2-Butanone	(1)	3.435	43	399085	91.538
42) 2,2-Dichloropropane	(1)	3.459	77	483048	52.314
43) Propionitrile	(4)	3.484	54	303669	280.696
46) Methacrylonitrile	(1)	3.636	67	419298	126.991
47) Bromochloromethane	(1)	3.666	128	183026	53.927

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL04 8278

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 15:53 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
48) Tetrahydrofuran	(4)	3.703	71	101771	107.120
50) Chloroform	(1)	3.745	83	566027	54.333
53) 1,1,1-Trichloroethane	(1)	3.928	97	532289	49.622
56) Cyclohexane	(1)	3.989	56	554740	48.599
54) Cyclohexane (mz 84)	(1)	3.989	84	457243	48.147
55) Cyclohexane (mz 69)	(1)	3.983	69	164391	48.849
57) 1,1-Dichloropropene	(1)	4.080	75	434798	52.551
58) Carbon Tetrachloride	(1)	4.092	117	443136	56.018
59) Isobutyl Alcohol	(4)	4.202	41	190352	669.283
63) Benzene	(1)	4.275	78	1307491	53.230
65) 1,2-Dichloroethane	(1)	4.287	62	487504	53.743
64) 1,2-Dichloroethane (mz 98)	(1)	4.287	98	42153	55.666
69) t-Amyl Methyl Ether	(1)	4.409	73	976292	49.902
72) n-Heptane	(1)	4.567	43	496756	45.306
71) *Fluorobenzene	(1)	4.548	96	1175523	50.000
73) n-Butanol	(4)	4.871	56	309156	1292.259
74) Trichloroethene	(1)	4.920	95	333899	53.060
77) 1,2-Dichloropropane	(1)	5.139	63	349313	53.972
75) Methylcyclohexane (mz98)	(1)	5.126	98	258053	48.371
76) Methylcyclohexane	(1)	5.126	83	565961	49.528
80) Methyl Methacrylate	(1)	5.291	69	268881	51.517
78) Dibromomethane	(1)	5.254	93	210934	52.711
79) 1,4-Dioxane	(4)	5.285	88	47299	536.432
83) Bromodichloromethane	(1)	5.431	83	425957	56.359
85) 2-Nitropropane	(1)	5.662	41	214378	111.552
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	223795	49.661
87) cis-1,3-Dichloropropene	(1)	5.905	75	525424	53.725
89) 4-Methyl-2-Pentanone	(1)	6.088	43	884681	94.312
94) Toluene	(2)	6.264	92	829114	54.375
95) trans-1,3-Dichloropropene	(2)	6.513	75	510137	56.494
96) Ethyl Methacrylate	(2)	6.647	69	487816	54.642
97) 1,1,2-Trichloroethane	(2)	6.702	97	302553	55.286
98) Tetrachloroethene	(2)	6.860	166	390046	50.859
99) 1,3-Dichloropropane	(2)	6.885	76	522073	54.536

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 15:53 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
101) 2-Hexanone	(2)	7.006	43	626686	95.689
102) Dibromochloromethane	(2)	7.128	129	349853	59.088
104) 1,2-Dibromoethane	(2)	7.237	107	321886	54.503
106) *Chlorobenzene-d5	(2)	7.724	117	862020	50.000
107) Chlorobenzene	(2)	7.748	112	947913	54.415
108) 1,1,1,2-Tetrachloroethane	(2)	7.840	131	343715	58.051
109) Ethylbenzene	(2)	7.870	91	1625927	55.219
110) m+p-Xylene	(2)	7.986	106	1318255	110.299
112) Xylene (Total)	(2)		106	1959558	164.910
113) o-Xylene	(2)	8.338	106	641303	54.611
114) Styrene	(2)	8.351	104	1046126	56.528
115) Bromoform	(2)	8.491	173	259323	53.908
116) Isopropylbenzene	(2)	8.661	105	1623772	54.236
118) Cyclohexanone	(4)	8.710	55	148988M	504.219
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	481946	54.229
124) trans-1,4-Dichloro-2-Butene	(3)	8.947	53	379806	131.159
121) Bromobenzene	(3)	8.886	156	441756	52.351
123) 1,2,3-Trichloropropane	(3)	8.929	110	144898	51.031
125) n-Propylbenzene	(3)	8.989	91	2013763	54.026
126) 2-Chlorotoluene	(3)	9.050	126	406295	51.609
127) 1,3,5-Trimethylbenzene	(3)	9.135	105	1492700	54.128
128) 4-Chlorotoluene	(3)	9.135	126	422717	52.385
130) tert-Butylbenzene	(3)	9.385	134	338709	51.944
131) Pentachloroethane	(3)	9.385	167	299440	63.236
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	1533359	53.989
133) sec-Butylbenzene	(3)	9.549	105	1860369	53.135
135) p-Isopropyltoluene	(3)	9.659	119	1662842	52.388
134) 1,3-Dichlorobenzene	(3)	9.616	146	855118	51.762
136) *1,4-Dichlorobenzene-d4	(3)	9.665	152	563115	50.000
138) 1,4-Dichlorobenzene	(3)	9.683	146	902432	52.470
139) 1,2,3-Trimethylbenzene	(3)	9.726	105	1589779	54.332
141) Benzyl Chloride	(3)	9.780	91	1030521	55.638
142) 1,3-Diethylbenzene	(3)	9.878	119	980351	52.618
143) 1,4-Diethylbenzene	(3)	9.932	119	983159	52.211

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

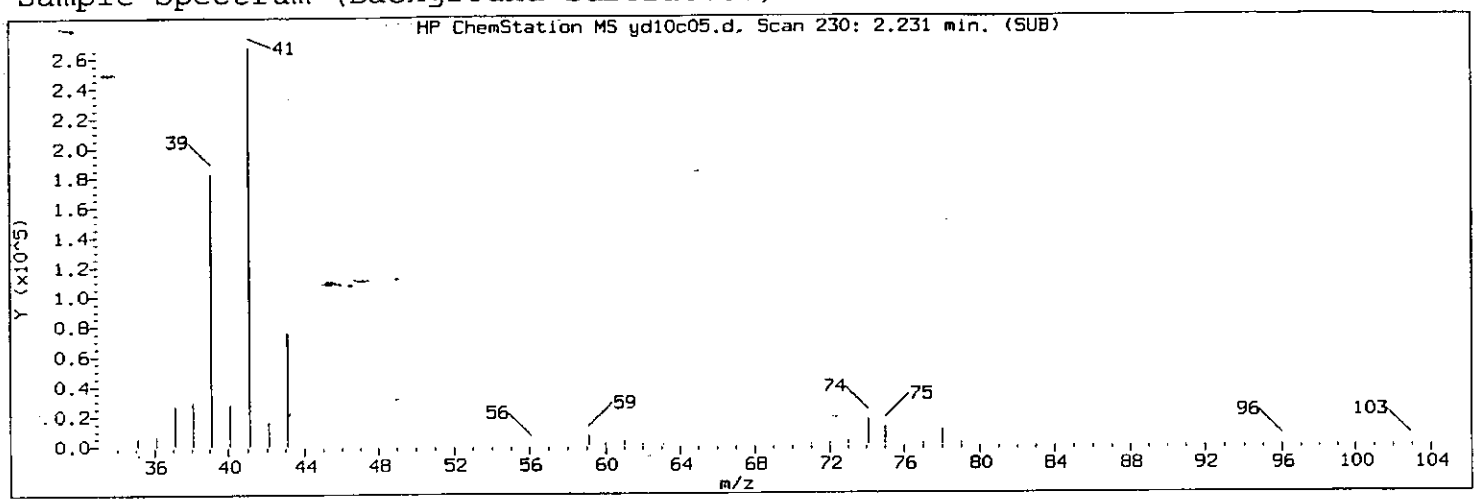
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 15:53 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

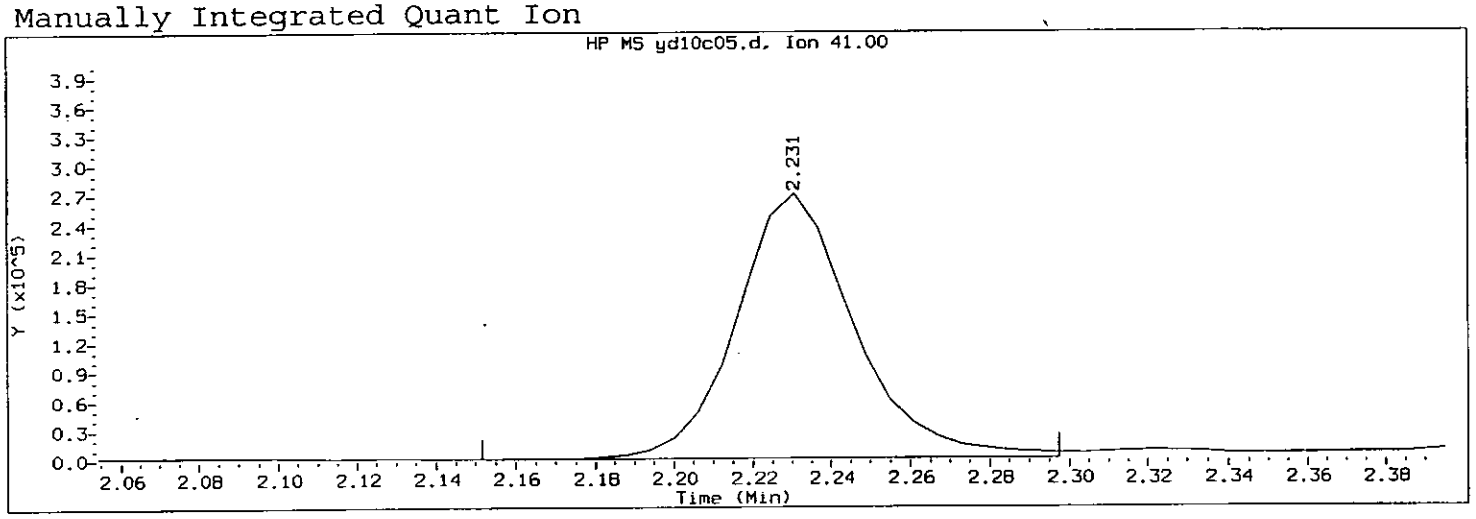
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
145) n-Butylbenzene	(3)	9.951	92	820288	52.837
144) 1,2-Dichlorobenzene	(3)	9.951	146	864571	52.880
146) 1,2-Diethylbenzene	(3)	10.018	119	827647	53.130
148) 1,2-Dibromo-3-Chloropropane	(3)	10.486	75	99354	51.339
150) 1,2,4-Trichlorobenzene	(3)	11.046	180	645177	48.201
151) Hexachlorobutadiene	(3)	11.161	225	311103	48.801
152) Naphthalene	(3)	11.204	128	1787120	50.150
153) 1,2,3-Trichlorobenzene	(3)	11.362	180	597850	46.653
154) 2-Methylnaphthalene	(3)	11.928	142	918741	39.916
52)$Dibromofluoromethane	(1)	3.897	113	284441	47.477
51)$Dibromofluoromethane(mz111)	(1)	3.897	111	291961	47.832
62)$1,2-Dichloroethane-d4	(1)	4.208	102	74500	48.460
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.214	104	44577	46.327
61)$1,2-Dichloroethane-d4(mz65)	(1)	4.214	65	380480	47.530
92)$Toluene-d8(mz100)	(2)	6.191	100	757821	48.228
120)$4-Bromofluorobenzene(mz174)	(2)	8.770	174	412410	49.397
93)$Toluene-d8	(2)	6.191	98	1158540	48.484
119)$4-Bromofluorobenzene	(2)	8.770	95	447611	49.707

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 10-DEC-2009 15:53
Date, time and analyst ID of latest file update: 10-Dec-2009 15:53 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 24
Compound Name : Allyl Chloride
Scan Number : 230
Retention Time (minutes): 2.231
Quant Ion : 41
Area (flag) : 566036 M
Concentration (ug/L) : 56.3495
Integration start scan : 216 Integration stop scan: 240
Y at integration start : 553 Y at integration end: 553

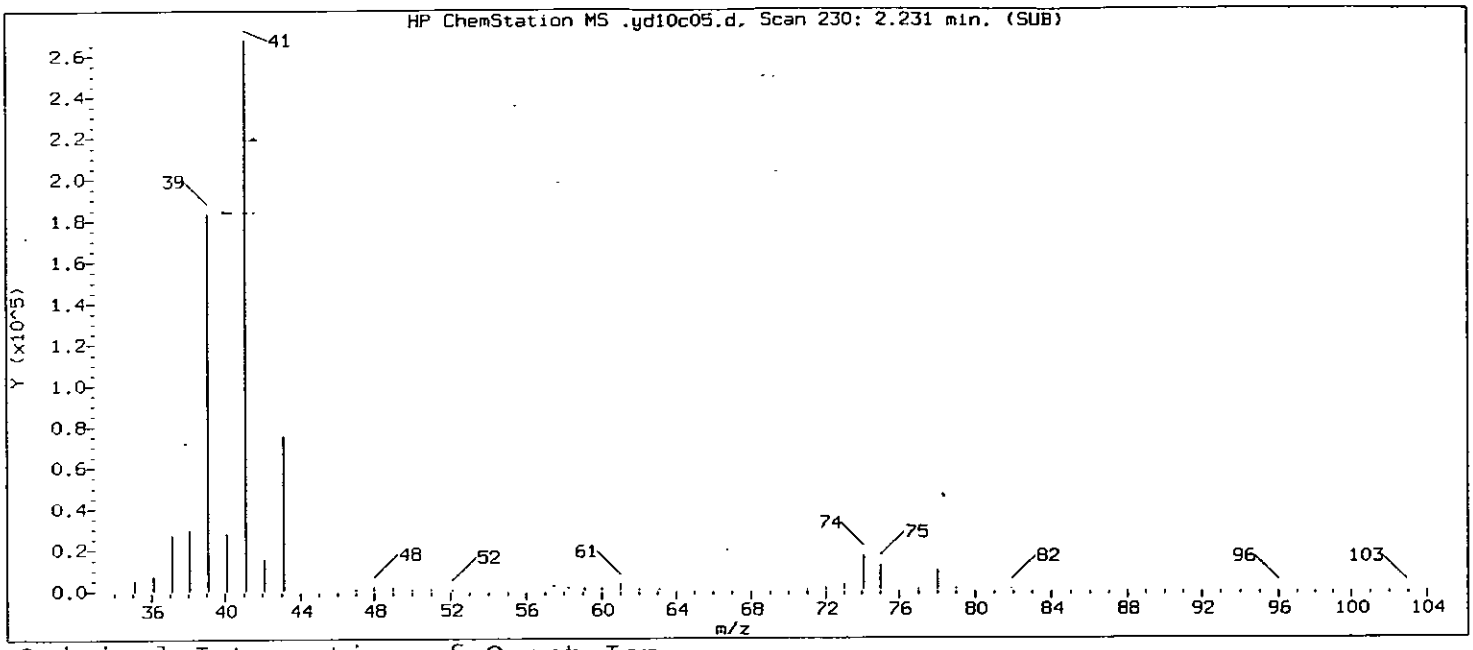
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MS 2w 12/10/09

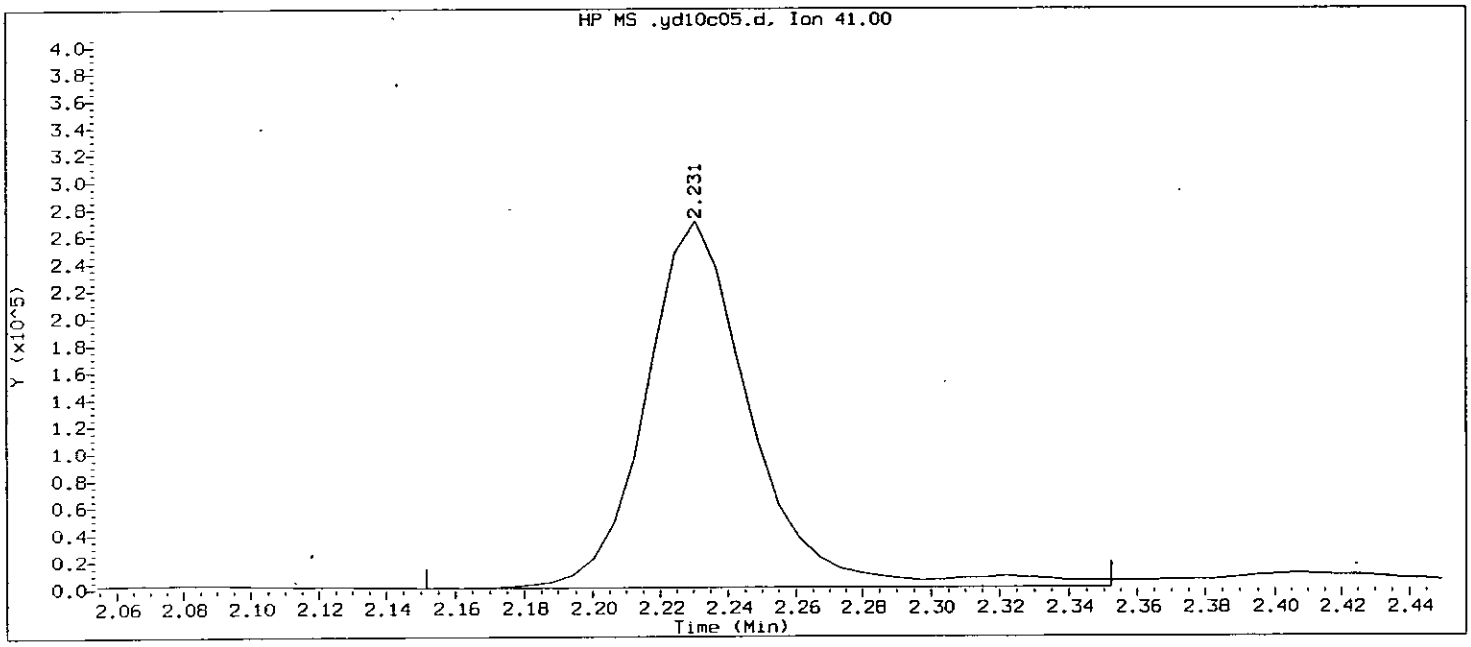
GC/MS audit/management approval: 12-18-09 PTL04 8274

Manual Integration Report for data file /chem2/HP09355.i/09dec10b.b/yd10c05.d, generated on 12/10/2009 at 15:53

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10a.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 10-DEC-2009 15:37
Date, time and analyst ID of latest file update: 10-Dec-2009 15:52 maz02012

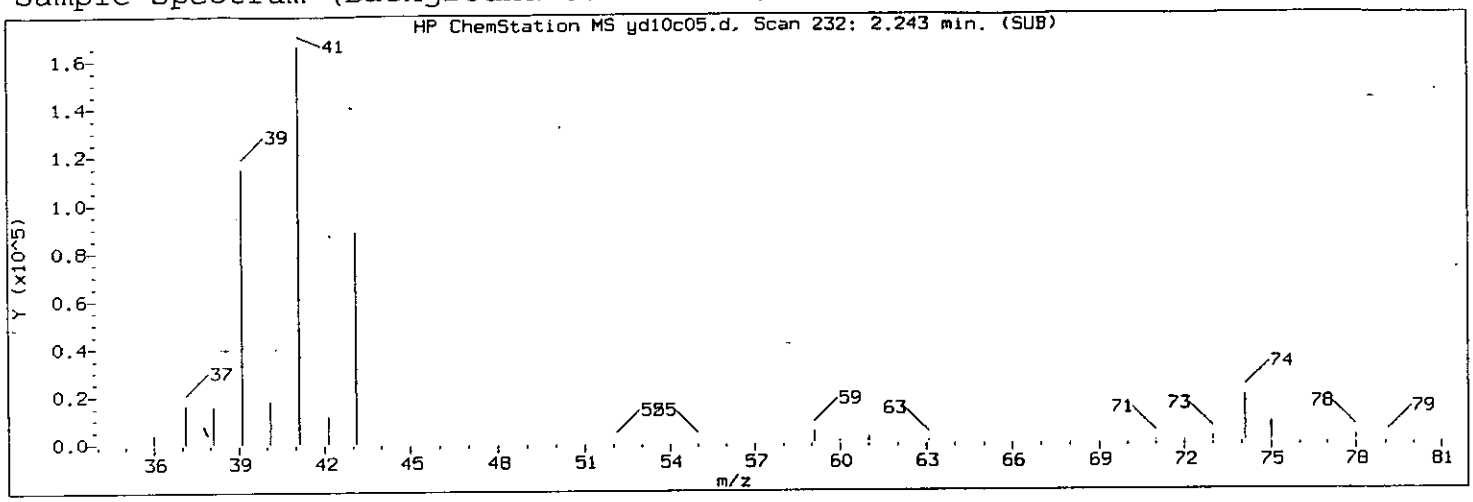
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 24
Compound Name : Allyl Chloride
Scan Number : 230
Retention Time (minutes): 2.231
Quant Ion : 41
Area : 585207
Concentration (ug/L) : 58.2581
Integration start scan : 216 Integration stop scan: 249
Y at integration start : 553 Y at integration end: 553

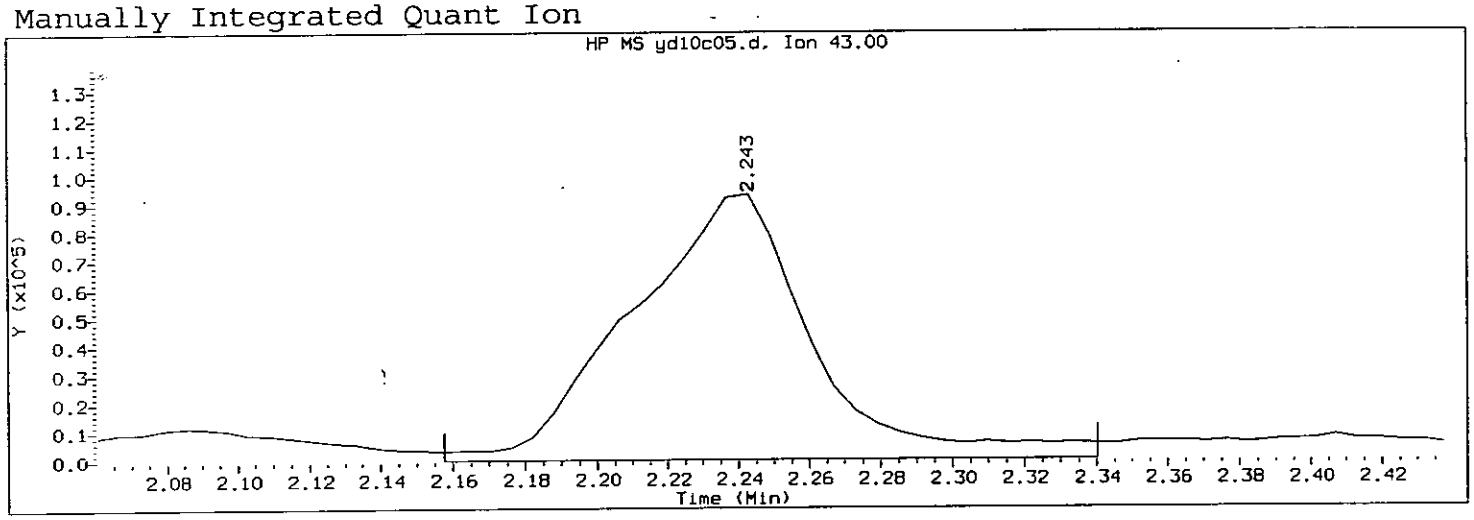
PTL84 0275

Original Integration Report for data file /chem2/HP09355.i/09dec10b.b/yd10c05.d, generated on 12/10/2009 at 15:53

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 10-DEC-2009 15:53
Date, time and analyst ID of latest file update: 10-Dec-2009 15:53 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 25
Compound Name : Methyl Acetate
Scan Number : 232
Retention Time (minutes): 2.243
Quant Ion : 43
Area (flag) : 330435 M
Concentration (ug/L) : 49.4779
Integration start scan : 217 Integration stop scan: 247
Y at integration start : 0 Y at integration end: 0

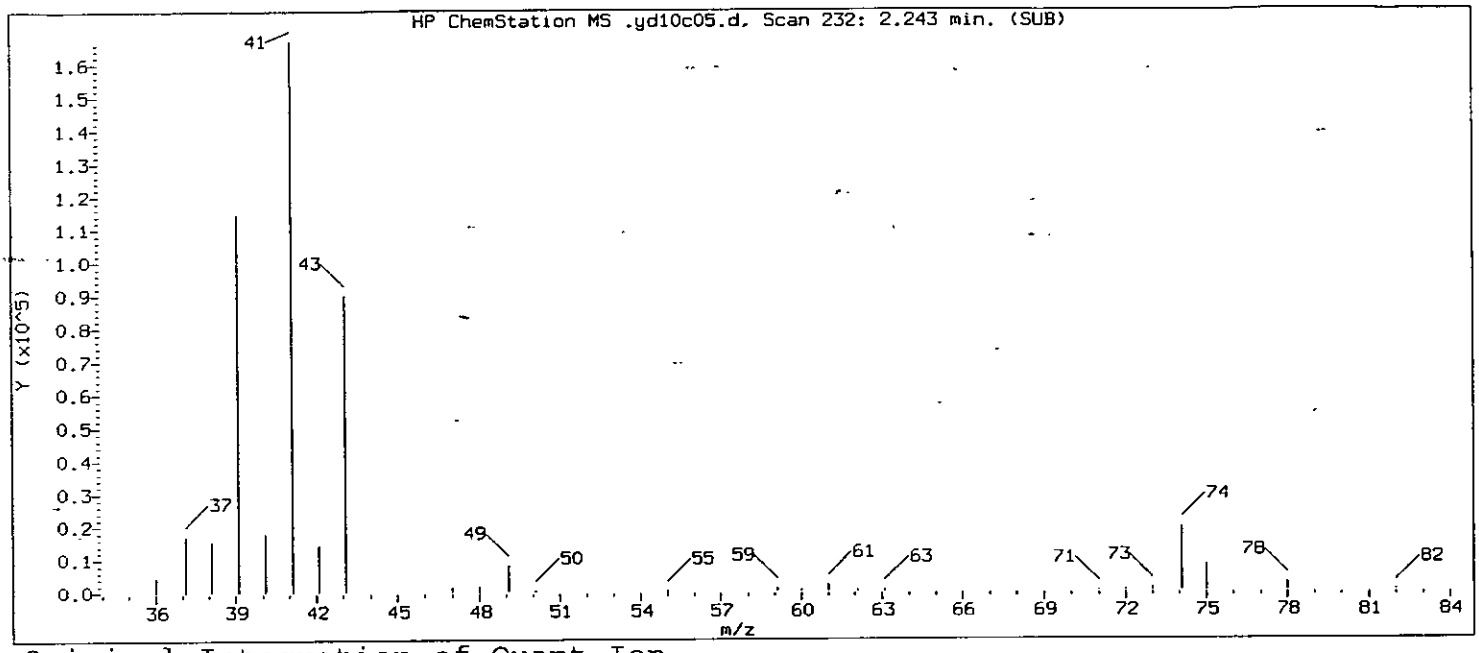
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MS 2m 12/10/09

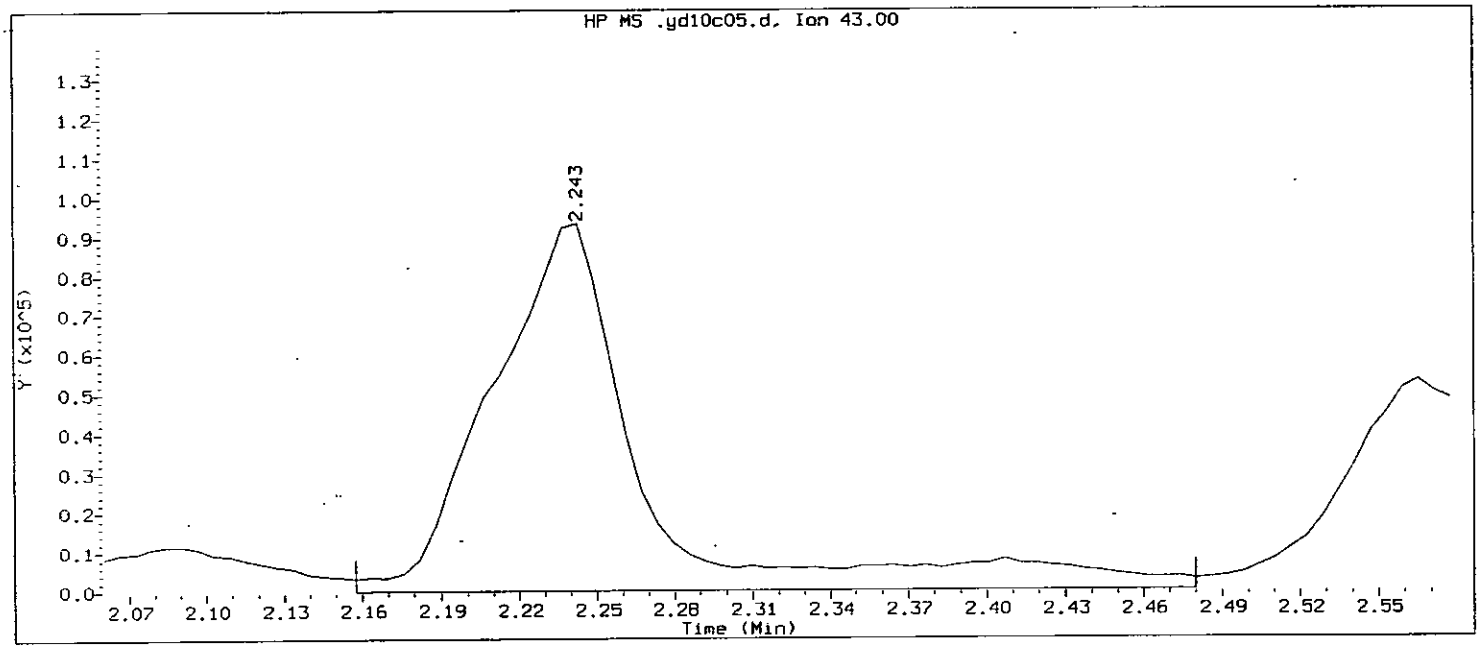
GC/MS audit/management approval: 12-18-09 PTL84 8276

Manual Integration Report for data file /chem2/HP09355.i/09dec10b.b/yd10c05.d, generated on 12/10/2009 at 15:53

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10a.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 10-DEC-2009 15:37
Date, time and analyst ID of latest file update: 10-Dec-2009 15:52 maz02012

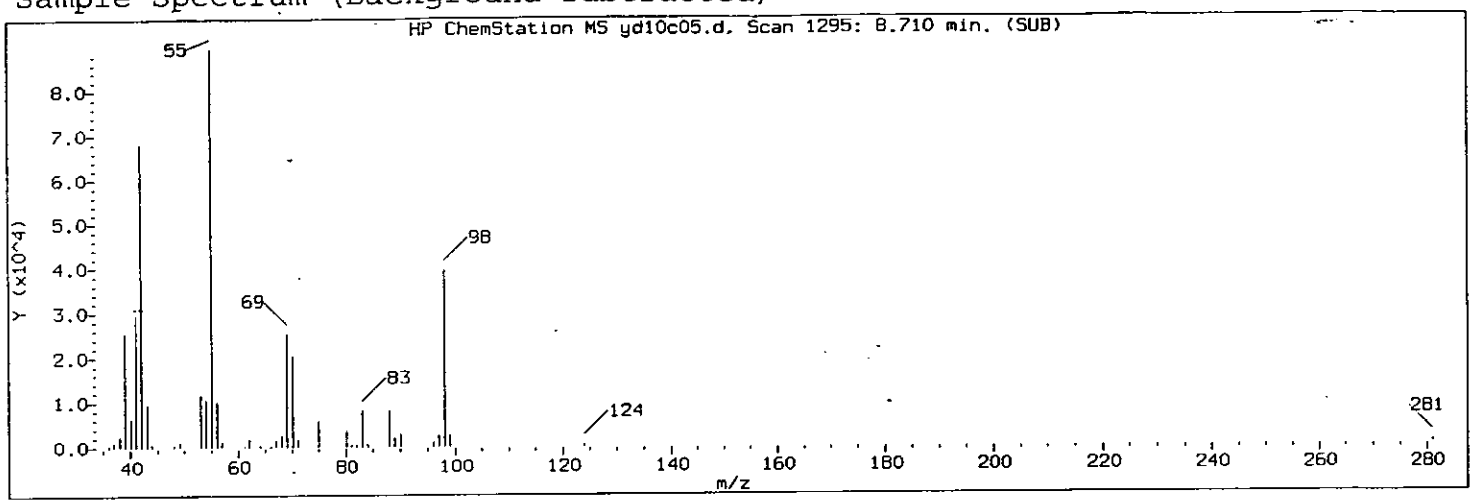
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 25
Compound Name : Methyl Acetate
Scan Number : 232
Retention Time (minutes): 2.243
Quant Ion : 43
Area : 375307
Concentration (ug/L) : 56.1969
Integration start scan : 217 Integration stop scan: 270
Y at integration start : 0 Y at integration end: 0

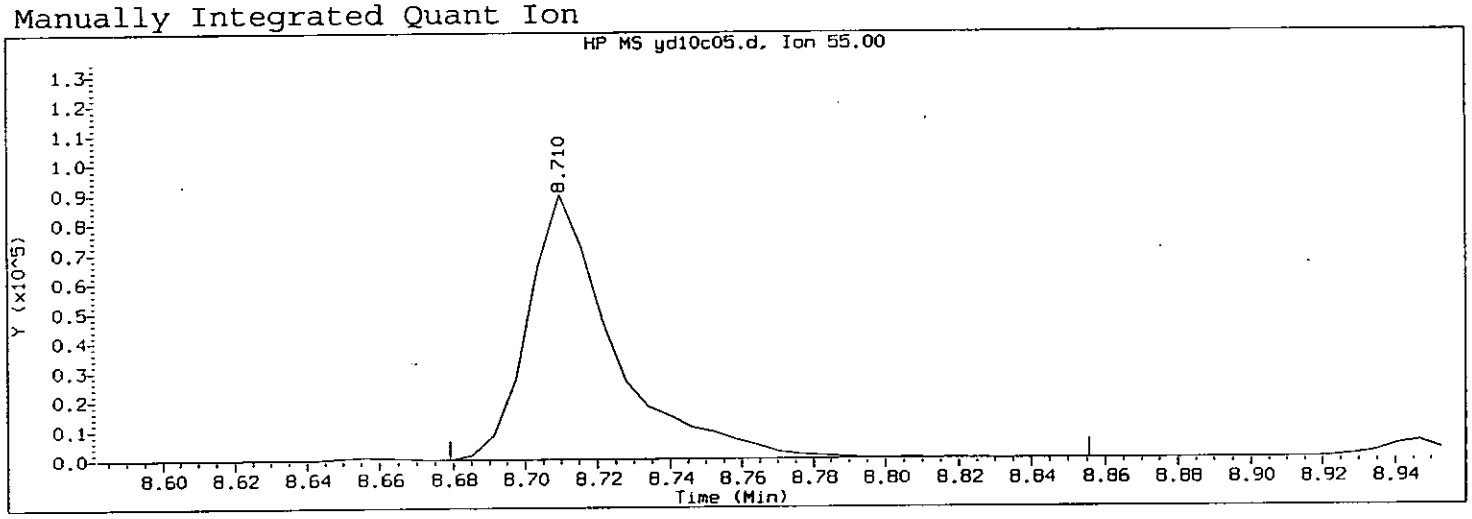
PTL04 8277

Original Integration Report for data file /chem2/HP09355.i/09dec10b.b/yd10c05.d, generated on 12/10/2009 at 15:53

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 10-DEC-2009 15:53
Date, time and analyst ID of latest file update: 10-Dec-2009 15:53 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 118
Compound Name : Cyclohexanone
Scan Number : 1295
Retention Time (minutes): 8.710
Quant Ion : 55
Area (flag) : 148988 M
Concentration (ug/L) : 504.2186
Integration start scan : 1289 Integration stop scan: 1318
Y at integration start : 0 Y at integration end: 0

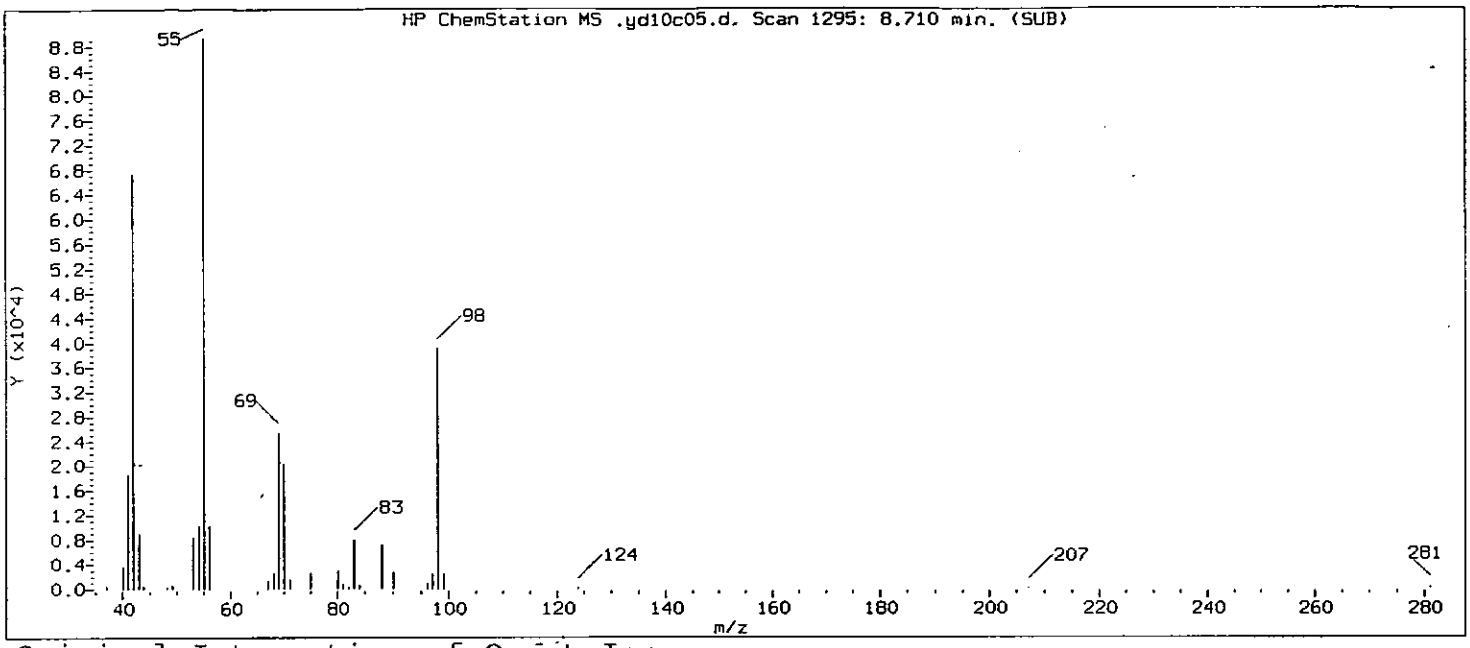
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: Mr 12/9/09

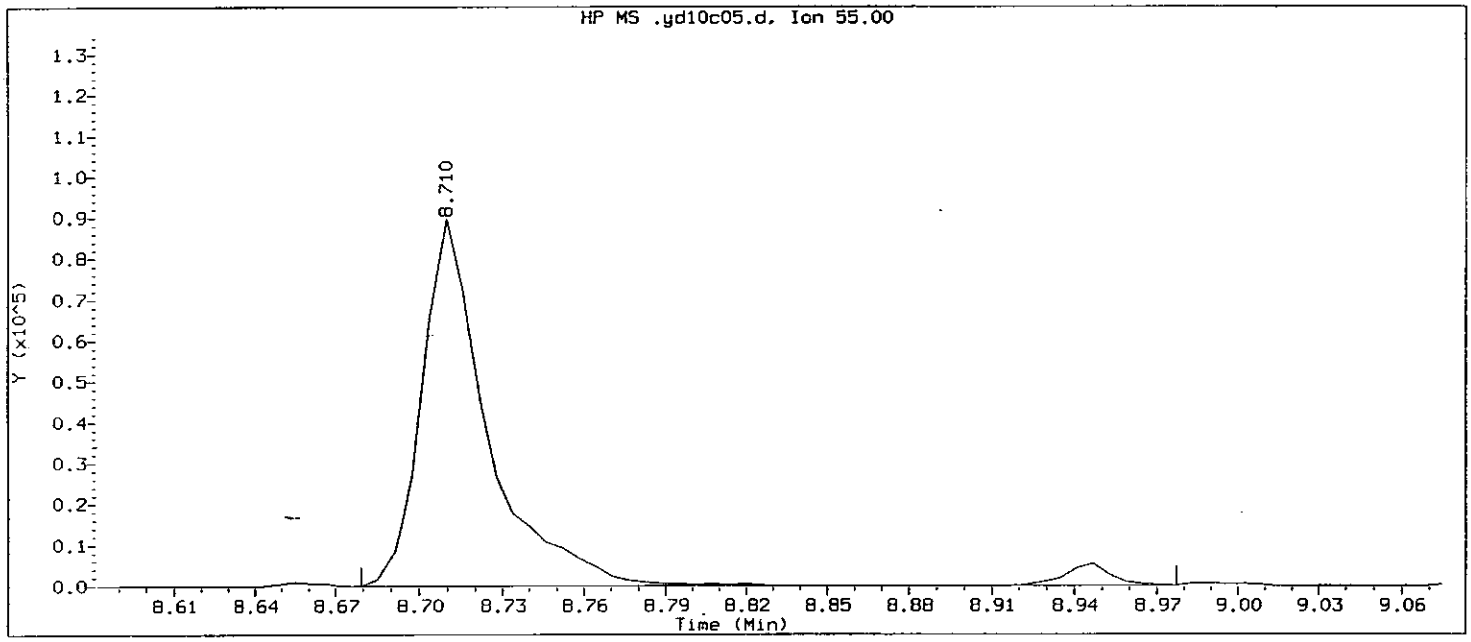
GC/MS audit/management approval: 12-18-09 PTL84 8278

Manual Integration Report for data file /chem2/HP09355.i/09dec10b.b/yd10c05.d, generated on 12/10/2009 at 15:53

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09dec10b.b/yd10c05.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 15:22 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10a.b/Y8260W.m Sublist used: 8260WI-4
Calibration date and time: 10-DEC-2009 15:37
Date, time and analyst ID of latest file update: 10-Dec-2009 15:52 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 118
Compound Name : Cyclohexanone
Scan Number : 1295
Retention Time (minutes): 8.710
Quant Ion : 55
Area : 155250
Concentration (ug/L) : 525.4106
Integration start scan : 1289 Integration stop scan: 1338
Y at integration start : 0 Y at integration end: 0

PTL84 6279

Original Integration Report for data file /chem2/HP09355.i/09dec10b.b/yd10c05.d, generated on 12/10/2009 at 15:53

Raw QC Data

Data File: /chem2/HP09355.i/09oct19i.b/yc19t09.d

Date : 19-OCT-2009 23:13

Client ID: 50NG BFB MAY27-09

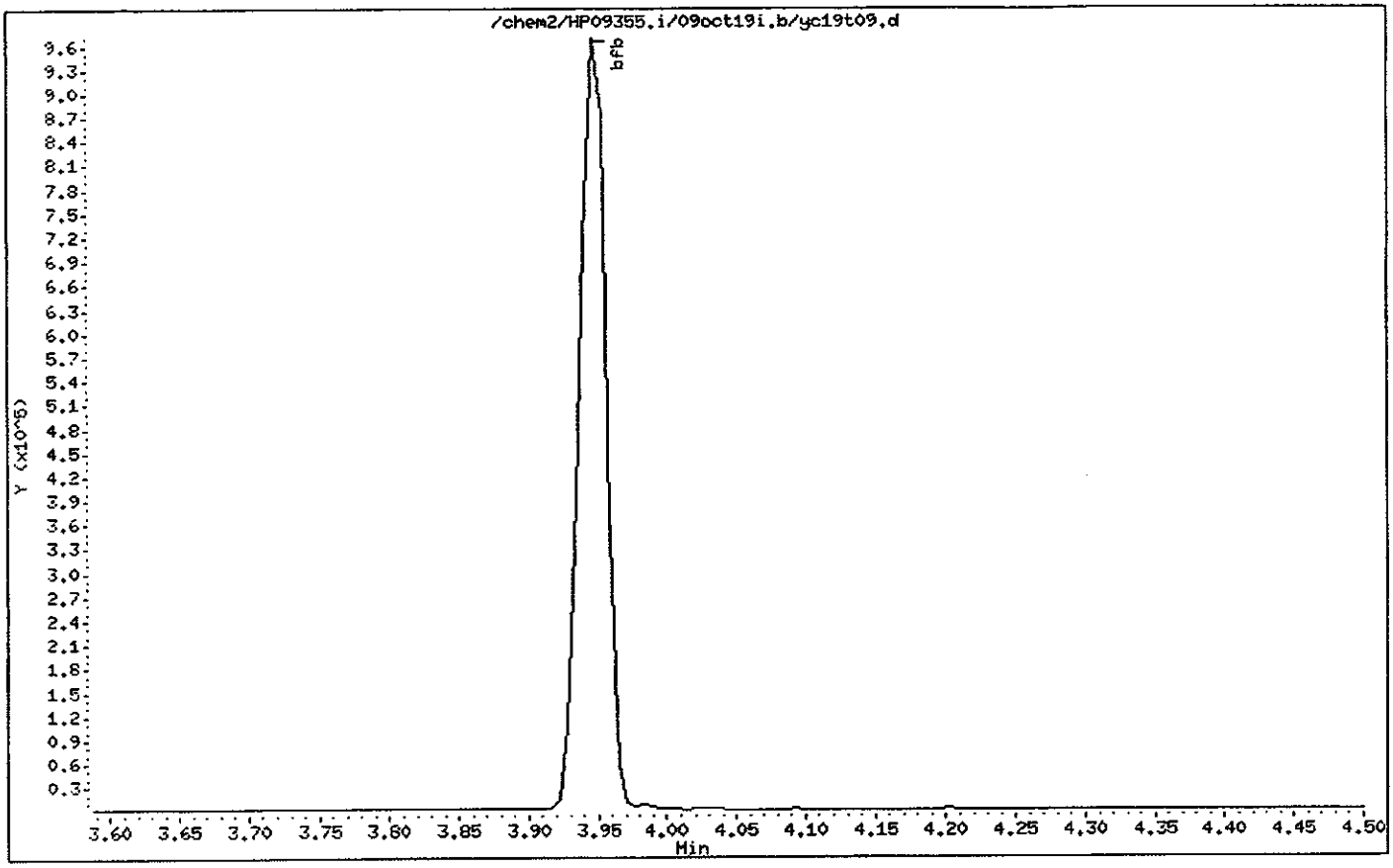
Instrument: HP09355.i

Sample Info: 50NG BFB MAY27-09;50NH BFB MAY27-09;1;2;;;;

Operator: MAZ02012

Column phase: DB-624

Column diameter: 0.18



MA/20v
10/19/09

PTL84 8281

Data File: /chem2/HP09355.i/09oct19i.b/yc19t09.d

Date : 19-OCT-2009 23:13

Client ID: 50NG BFB MAY27-09

Instrument: HP09355.i

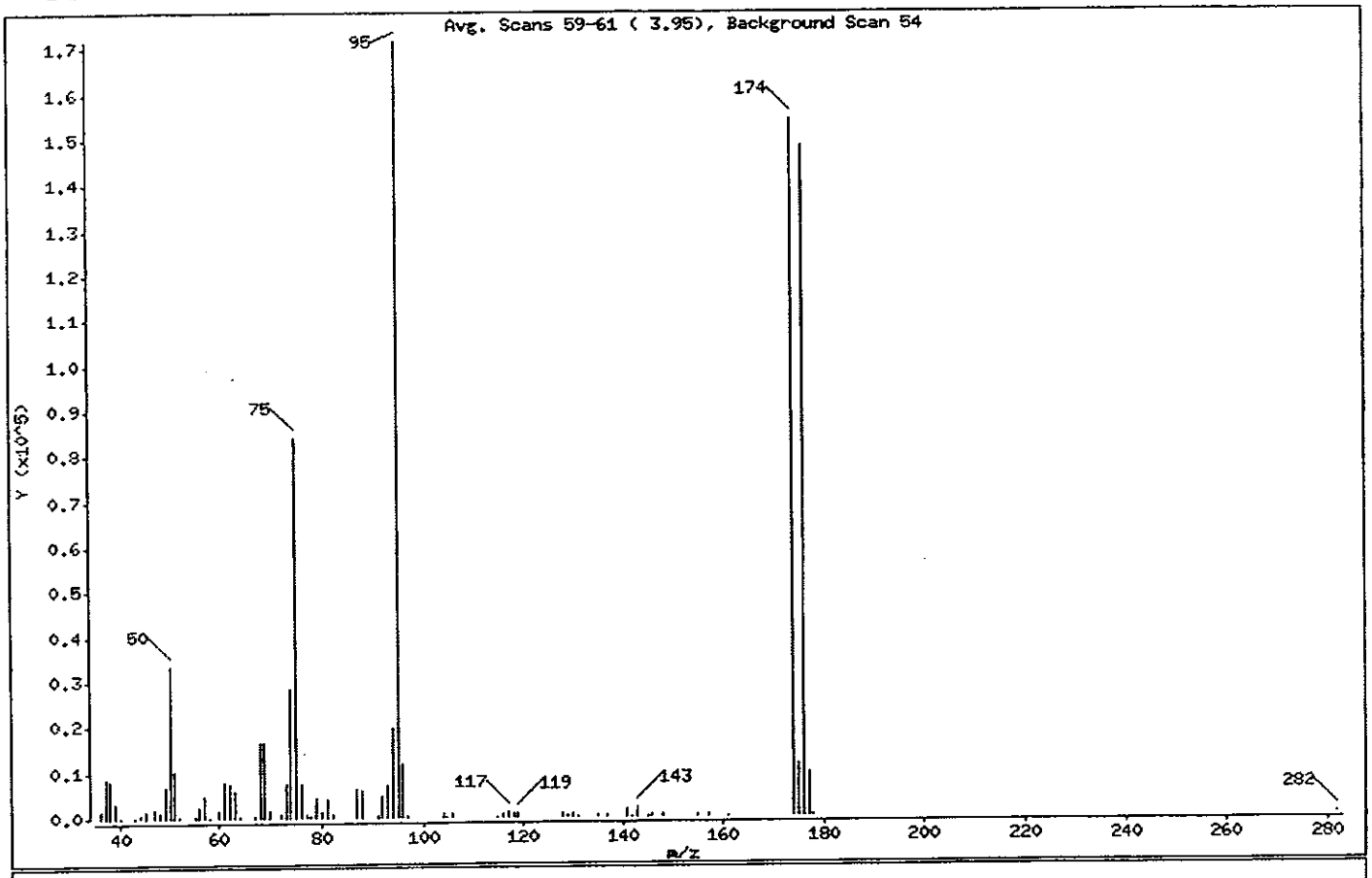
Sample Info: 50NG BFB MAY27-09;50NH BFB MAY27-09;1;2;;;;

Operator: MAZ02012

Column phase: DB-624

Column diameter: 0.18

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	19.45
75	30.00 - 60.00% of mass 95	49.08
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	89.81
175	5.00 - 9.00% of mass 174	6.62 (7.37)
176	95.00 - 101.00% of mass 174	86.58 (96.40)
177	5.00 - 9.00% of mass 176	5.62 (6.49)

0

Data File: /chem2/HP09355.i/09oct19i.b/yo19t09.d

Date : 19-OCT-2009 23:13

Client ID: 50NG BFB MAY27-09 Instrument: HP09355.i

Sample Info: 50NG BFB MAY27-09;50NH BFB MAY27-09;1;2;;;;

Operator: HAZ02012

Column phase: DB-624 Column diameter: 0.18

Data File: yo19t09.d

Spectrum: Avg. Scans 59-61 (3.95), Background Scan 54

Location of Maximum: 95.00

Number of points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1712	62.00	7593	91.00	536	137.00	315
37.00	8774	63.00	6097	92.00	4577	141.00	1713
38.00	8181	64.00	513	93.00	7122	142.00	106
39.00	3103	67.00	486	94.00	19904	143.00	1868
40.00	15	68.00	16496	95.00	171712	145.00	90
43.00	98	69.00	16704	96.00	11930	146.00	314
44.00	826	70.00	1480	97.00	379	148.00	507
45.00	1592	72.00	865	104.00	635	155.00	459
47.00	1849	73.00	7332	105.00	117	157.00	226
48.00	1080	74.00	28552	106.00	644	161.00	83
49.00	6710	75.00	84272	115.00	90	174.00	154176
50.00	33392	76.00	7464	116.00	640	175.00	11366
51.00	10392	77.00	959	117.00	1017	176.00	148608
52.00	480	78.00	558	118.00	609	177.00	9650
55.00	513	79.00	4196	119.00	939	178.00	86
56.00	2474	80.00	1258	128.00	701	282.00	131
57.00	4858	81.00	4123	129.00	384		
58.00	105	82.00	889	130.00	632		
60.00	1441	87.00	6317	131.00	94		
61.00	7726	88.00	5819	135.00	228		

Data File: /chem2/HP09355.i/09dec10b.b/yd10t02.d

Date : 10-DEC-2009 15:01

Client ID: 50NG BFB NOV24-09

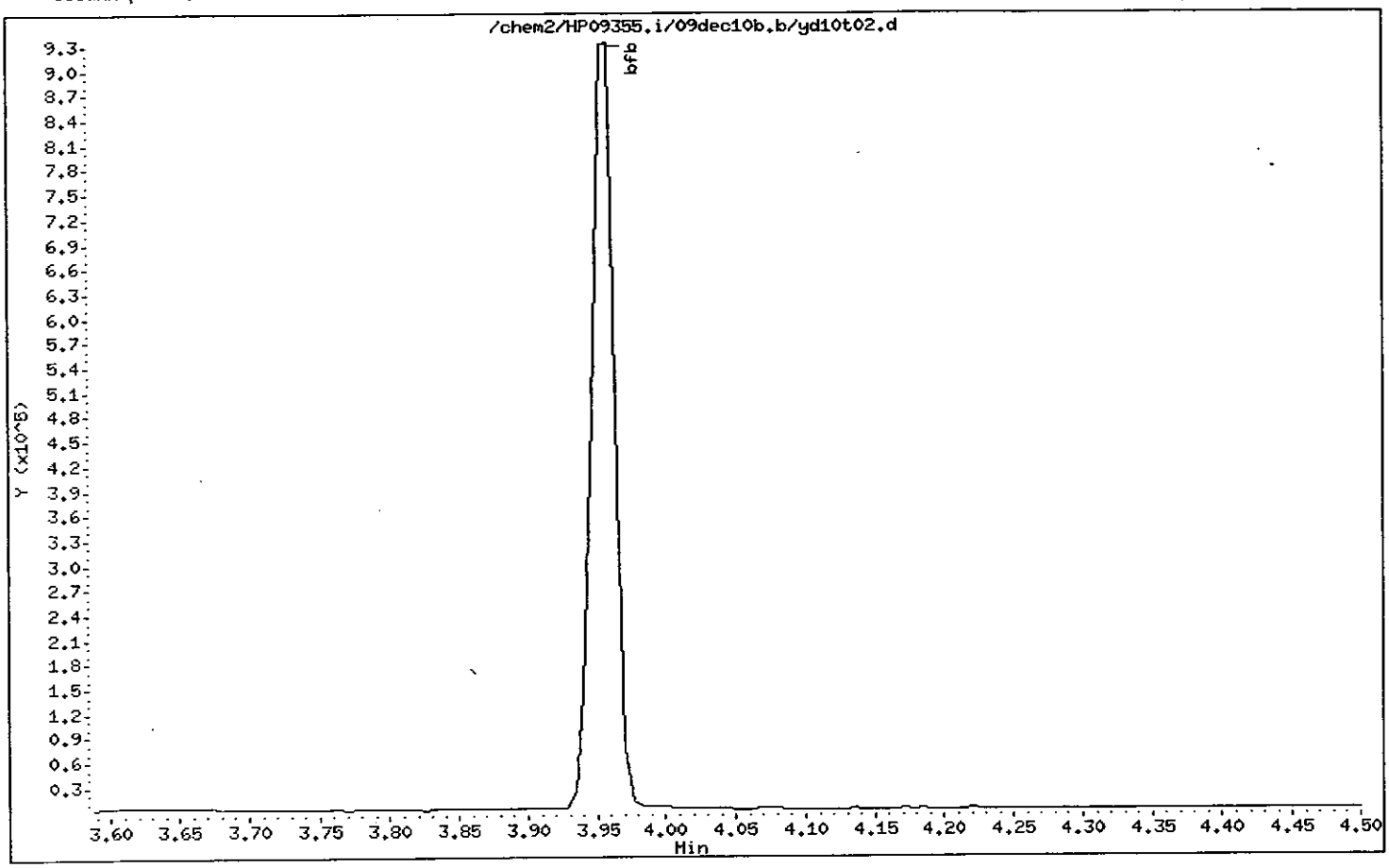
Instrument: HP09355.i

Sample Info: 50NG BFB NOV24-09;50NG BFB;1;2;;;

Operator: NRR01826

Column phase: DB-624

Column diameter: 0.18



pm 1826 12/2/09

PTL84 0284

Data File: /chem2/HP09355.i/09dec10b.b/yd10t02.d

Date : 10-DEC-2009 15:01

Client ID: 50NG BFB NOV24-09

Instrument: HP09355.i

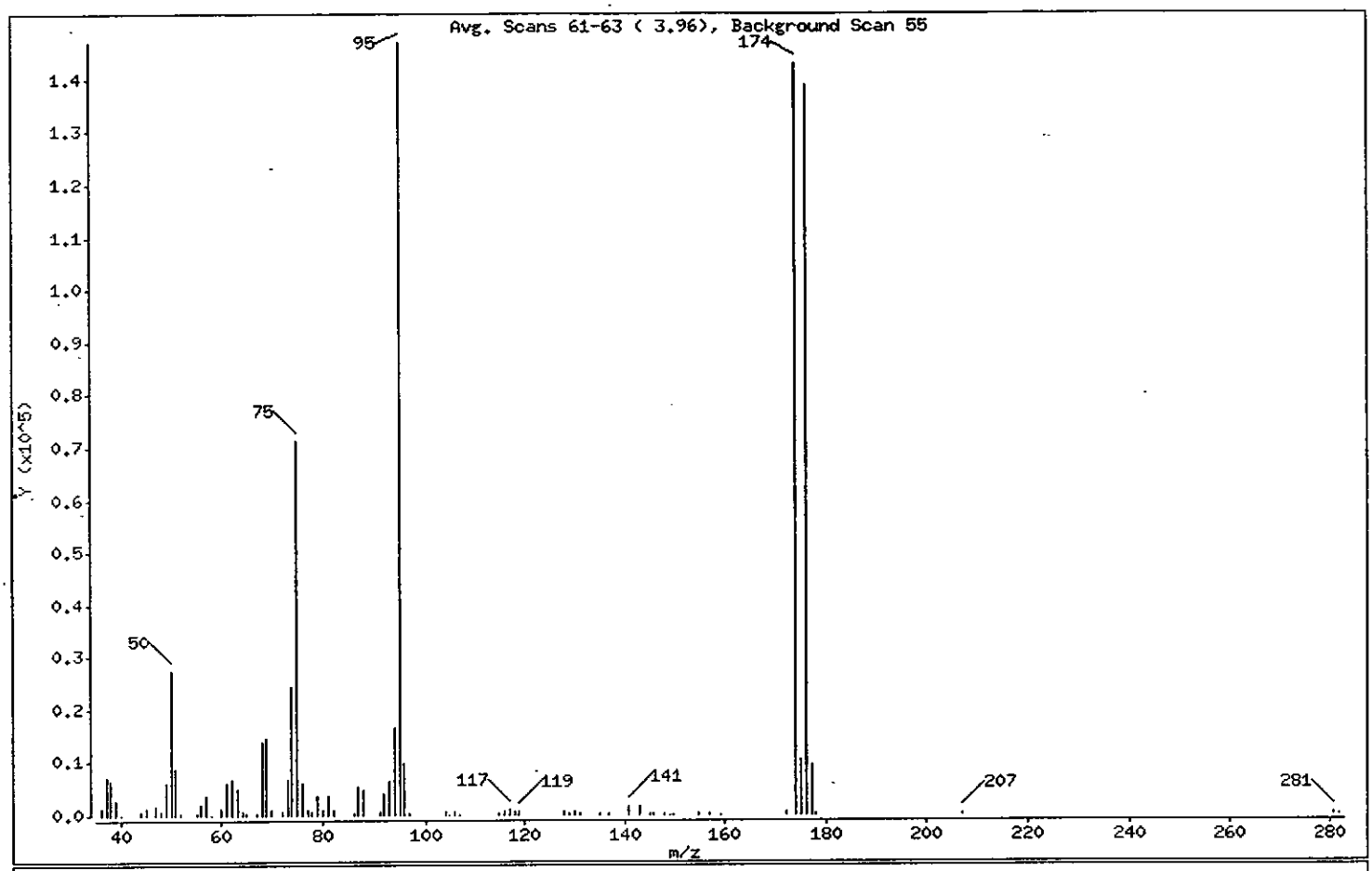
Sample Info: 50NG BFB NOV24-09;50NG BFB;1;2;;;

Operator: NRR01826

Column phase: DB-624

Column diameter: 0.18

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	18.60
75	30.00 - 60.00% of mass 95	48.41
96	5.00 - 9.00% of mass 95	6.63
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	97.18
175	5.00 - 9.00% of mass 174	7.18 (7.38)
176	95.00 - 101.00% of mass 174	94.36 (97.09)
177	5.00 - 9.00% of mass 176	6.32 (6.70)

Data File: /chem2/HP09355.i/09dec10b.b/yd10t02.d

Date : 10-DEC-2009 15:01

Client ID: 50NG BFB NOV24-09

Instrument: HP09355.i

Sample Info: 50NG BFB NOV24-09;50NG BFB;1;2;;;

Operator: NRR01826

Column phase: DB-624

Column diameter: 0.18

Data File: yd10t02.d

Spectrum: Avg. Scans 61-63 (3.96), Background Scan 55

Location of Maximum: 95.00

Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1301	64.00	559	92.00	3965	141.00	1677
37.00	7132	65.00	348	93.00	6359	143.00	1677
38.00	6528	67.00	281	94.00	16672	145.00	170
39.00	2651	68.00	13961	95.00	147072	146.00	294
40.00	126	69.00	14382	96.00	9761	148.00	328
44.00	739	70.00	1114	97.00	329	149.00	109
45.00	1262	72.00	769	104.00	540	150.00	115
47.00	1523	73.00	6752	105.00	104	155.00	418
48.00	821	74.00	24232	106.00	604	157.00	263
49.00	5981	75.00	71224	107.00	105	159.00	84
50.00	27368	76.00	6034	115.00	185	172.00	787
51.00	8743	77.00	846	116.00	533	174.00	142976
52.00	406	78.00	568	117.00	856	175.00	10557
55.00	350	79.00	3704	118.00	563	176.00	138816
56.00	1927	80.00	1026	119.00	703	177.00	9305
57.00	3663	81.00	3874	128.00	556	178.00	187
58.00	114	82.00	911	129.00	217	207.00	254
60.00	1243	86.00	226	130.00	579	281.00	238
61.00	5954	87.00	5470	131.00	177	282.00	89
62.00	6712	88.00	4857	135.00	229		
63.00	4919	91.00	579	137.00	237		

VBLKY40

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKY40

File: /chem2/HP09355.i/09dec10b.b/yd10b06.d
Sample: VBLKY40;VBLKY40;1;3;;;;;;;;;
Injected At:10-DEC-2009 16:25
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference:
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.340(0.006)	248	65	163662(-11)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	1101638(-6)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	808619(-6)	50.00	
136) 1,4-Dichlorobenzene-d4	9.665(0.000)	1452	152	491216(-13)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.000)	113	271839	48.417	97%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.208(0.000)	102	66429	46.108	92%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	1054852	47.061	94%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.770(-0.001)	95	387175	45.835	92%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
5) Vinyl Chloride	(1)				ND	ND			1.00	5.00
7) Bromomethane	(1)				ND	ND			1.00	5.00
8) Chloroethane	(1)				ND	ND			1.00	5.00
10) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
13) Ethyl Ether	(1)				ND	ND			2.00	5.00
15) Acrolein	(4)				ND	ND			40.00	100.00
16) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
18) Freon 113	(1)				ND	ND			2.00	10.00
17) Acetone	(1)				ND	ND			6.00	20.00
20) Methyl Iodide	(1)				ND	ND			1.00	5.00
21) 2-Propanol	(4)				ND	ND			50.00	100.00
22) Carbon Disulfide	(1)				ND	ND			1.00	5.00
24) Allyl Chloride	(1)				ND	ND			1.00	5.00
25) Methyl Acetate	(1)				ND	ND			1.00	5.00
26) Methylene Chloride	(1)				ND	ND			2.00	5.00
29) t-Butyl Alcohol	(4)				ND	ND			10.00	80.00
30) Acrylonitrile	(1)				ND	ND			4.00	20.00
31) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
33) n-Hexane	(1)				ND	ND			2.00	5.00
45) 1,2-Dichloroethene (total)	(1)				ND	ND			0.80	5.00
34) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKY40

File: /chem2/HP09355.i/09dec10b.b/yd10b06.d
Sample: VBLKY40;VBLKY40;1;3;;;;;;;;;
Injected At:10-DEC-2009 16:25
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference:
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
36) di-Isopropyl Ether	(1)					ND	ND			0.80	5.00
37) 2-Chloro-1,3-Butadiene	(1)					ND	ND			1.00	5.00
39) Ethyl t-Butyl Ether	(1)					ND	ND			0.80	5.00
40) cis-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
41) 2-Butanone	(1)					ND	ND			3.00	10.00
42) 2,2-Dichloropropane	(1)					ND	ND			1.00	5.00
43) Propionitrile	(4)					ND	ND			30.00	100.00
46) Methacrylonitrile	(1)					ND	ND			10.00	50.00
47) Bromochloromethane	(1)					ND	ND			1.00	5.00
48) Tetrahydrofuran	(4)					ND	ND			4.00	10.00
50) Chloroform	(1)					ND	ND			0.80	5.00
53) 1,1,1-Trichloroethane	(1)					ND	ND			0.80	5.00
56) Cyclohexane	(1)					ND	ND			2.00	5.00
57) 1,1-Dichloropropene	(1)					ND	ND			1.00	5.00
58) Carbon Tetrachloride	(1)					ND	ND			1.00	5.00
59) Isobutyl Alcohol	(4)					ND	ND			100.00	250.00
63) Benzene	(1)					ND	ND			0.50	5.00
65) 1,2-Dichloroethane	(1)					ND	ND			1.00	5.00
69) t-Amyl Methyl Ether	(1)					ND	ND			0.80	5.00
72) n-Heptane	(1)					ND	ND			2.00	5.00
73) n-Butanol	(4)					ND	ND			100.00	250.00
74) Trichloroethene	(1)					ND	ND			1.00	5.00
77) 1,2-Dichloropropane	(1)					ND	ND			1.00	5.00
76) Methylcyclohexane	(1)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 0288

VBLKY40

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKY40

File: /chem2/HP09355.i/09dec10b.b/yd10b06.d
Sample: VBLKY40;VBLKY40;1;3;;;;;;;;;
Injected At:10-DEC-2009 16:25
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference:
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Methyl Methacrylate	(1)					ND	ND			1.00	5.00
78) Dibromomethane	(1)					ND	ND			1.00	5.00
79) 1,4-Dioxane	(4)					ND	ND			70.00	250.00
83) Bromodichloromethane	(1)					ND	ND			1.00	5.00
85) 2-Nitropropane	(1)					ND	ND			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)					ND	ND			2.00	10.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
94) Toluene	(2)					ND	ND			0.70	5.00
95) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) Ethyl Methacrylate	(2)					ND	ND			1.00	5.00
97) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
98) Tetrachloroethene	(2)					ND	ND			0.80	5.00
99) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
101) 2-Hexanone	(2)					ND	ND			3.00	10.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
104) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
107) Chlorobenzene	(2)					ND	ND			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
109) Ethylbenzene	(2)					ND	ND			0.80	5.00
110) m+p-Xylene	(2)					ND	ND			0.80	5.00
112) Xylene (Total)	(2)					ND	ND			0.80	5.00
113) o-Xylene	(2)					ND	ND			0.80	5.00
114) Styrene	(2)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 0289

VBLKY40

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKY40

File: /chem2/HP09355.i/09dec10b.b/yd10b06.d
Sample: VBLKY40;VBLKY40;1;3;;;;;;;;;
Injected At:10-DEC-2009 16:25
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference:
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
115) Bromoform	(2)					ND	ND			1.00	5.00
116) Isopropylbenzene	(2)					ND	ND			1.00	5.00
118) Cyclohexanone	(4)					ND	ND			55.00	250.00
122) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)					ND	ND			15.00	50.00
121) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
131) Pentachloroethane	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
133) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
134) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
139) 1,2,3-Trimethylbenzene	(3)					ND	ND			1.00	5.00
141) Benzyl Chloride	(3)					ND	ND			1.00	5.00
142) 1,3-Diethylbenzene	(3)					ND	ND			1.00	5.00
143) 1,4-Diethylbenzene	(3)					ND	ND			1.00	5.00
145) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 #298

VBLKY40

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKY40

File: /chem2/HP09355.i/09dec10b.b/yd10b06.d
Sample: VBLKY40;VBLKY40;1;3;;;;;;;;;
Injected At:10-DEC-2009 16:25
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: --
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
146) 1,2-Diethylbenzene	(3)					ND	ND			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
151) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
152) Naphthalene	(3)					ND	ND			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00
154) 2-Methylnaphthalene	(3)					ND	ND			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

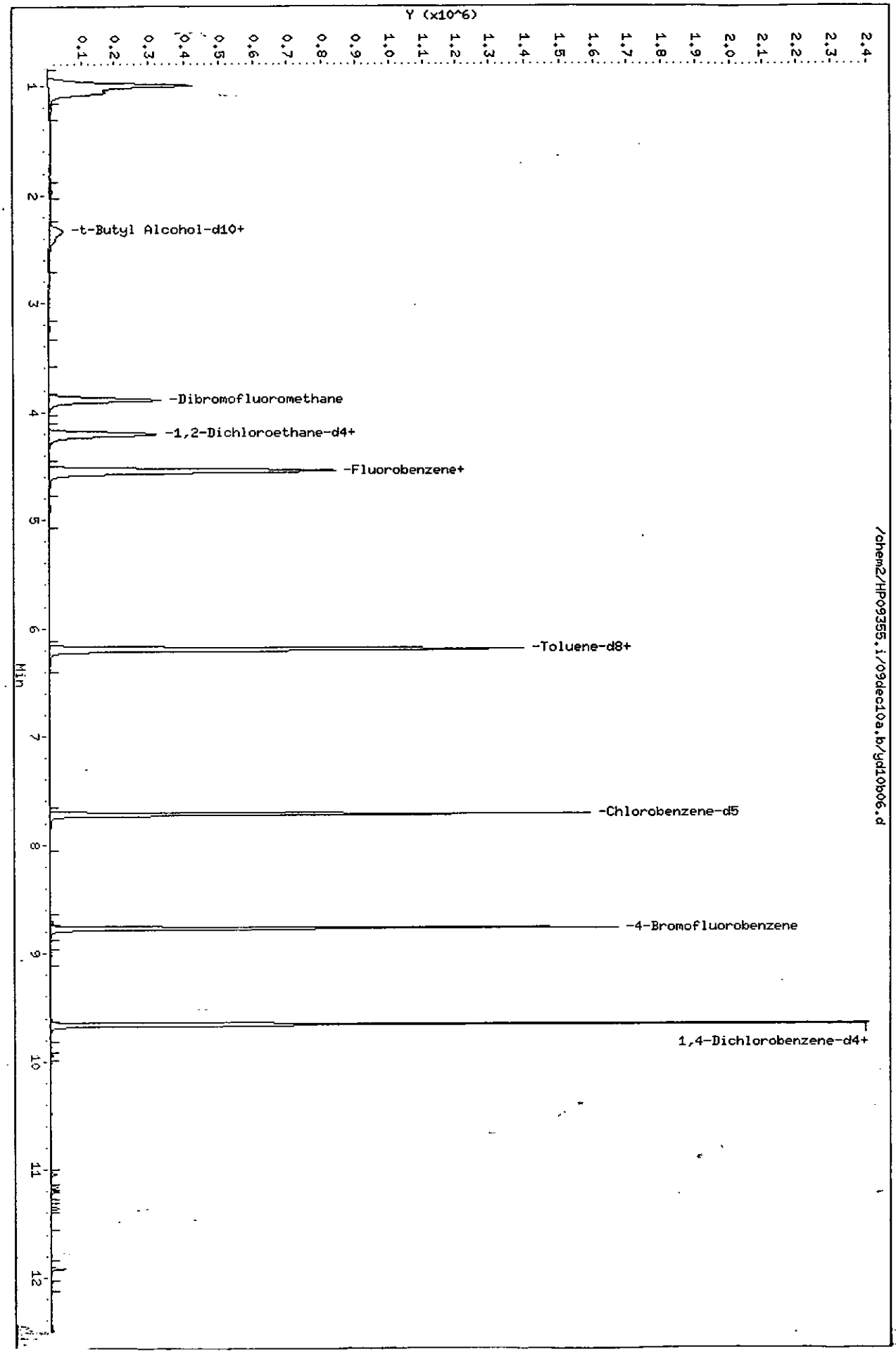
Analyst: MB Date: 12/10/09

Auditor: Date: 12-18-09

PTL84 8291

Data File: /chem2/HP09355.i/09dec10a.b/yd10b06.d
Date : 10-DEC-2009 16:25
Client ID: VBLKY40
Sample Info: VBLKY40;VBLKY40;1;3;;;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



MS/MSD
12/10/09

PTL84 8292

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10b06.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 16:25 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 16:41 maz02012

Sample Name: VBLKY40 Lab Sample ID: VBLKY40

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
28)*t-Butyl Alcohol-d10	(4)	2.340	65	163662	250.000
71)*Fluorobenzene	(1)	4.548	96	1101638	50.000
106)*Chlorobenzene-d5	(2)	7.718	117	808619	50.000
136)*1,4-Dichlorobenzene-d4	(3)	9.665	152	491216	50.000
52)$Dibromofluoromethane	(1)	3.897	113	271839	48.417
62)$1,2-Dichloroethane-d4	(1)	4.208	102	66429	46.108
93)$Toluene-d8	(2)	6.191	98	1054852	47.061
119)$4-Bromofluorobenzene	(2)	8.770	95	387175	45.835

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PA19DMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859197

File: /chem2/HP09355.i/09dec10b.b/yd10s31.d
Sample: PA19DMS;5859197;1;3;MS;;;;yd10b06;;;
Injected At:10-DEC-2009 17:26
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.340(0.006)	248	65	169615(-8)	250.00	
71) Fluorobenzene	4.554(-0.006)	612	96	1122239(-5)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	825575(-4)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	541527(-4)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.897(0.001)	113	274106	47.924	96%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.220(-0.001)	102	67137	45.744	91%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	1121468	49.005	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.770(-0.001)	95	424560	49.228	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.135(0.000)	85	203799	23.466	23.47			2.00	5.00
3) Chloromethane	(1)	1.190(0.002)	50	188109	21.509	21.51			1.00	5.00
5) Vinyl Chloride	(1)	1.269(0.004)	62	167021	20.106	20.11			1.00	5.00
7) Bromomethane	(1)	1.452(0.002)	94	103808	20.140	20.14			1.00	5.00
8) Chloroethane	(1)	1.507(0.000)	64	97943	21.727	21.73			1.00	5.00
10) Trichlorofluoromethane	(1)	1.646(0.000)	101	222604	23.243	23.24			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	133193	26.882	26.88			0.80	5.00
17) Acetone	(1)	1.999(0.001)	58	99585	126.136	126.14			6.00	20.00
26) Methylene Chloride	(1)	2.328(-0.001)	84	122134	21.038	21.04			2.00	5.00
31) trans-1,2-Dichloroethene	(1)	2.559(-0.001)	96	118390	21.113	21.11			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)	2.565(0.001)	73	367336	18.716	18.72			0.50	5.00
34) 1,1-Dichloroethane	(1)	2.918(0.001)	63	220495	21.214	21.21			1.00	5.00
40) cis-1,2-Dichloroethene	(1)	3.447(0.000)	96	123437	20.300	20.30			0.80	5.00
41) 2-Butanone	(1)	3.435(0.001)	43	540535	129.869	129.87			3.00	10.00
42) 2,2-Dichloropropane	(1)	3.453(0.002)	77	178769	20.280	20.28			1.00	5.00
47) Bromochloromethane	(1)	3.666(0.001)	128	67781	20.919	20.92			1.00	5.00
50) Chloroform	(1)	3.745(0.001)	83	225786	22.702	22.70			0.80	5.00
53) 1,1,1-Trichloroethane	(1)	3.928(0.001)	97	229472	22.408	22.41			0.80	5.00
57) 1,1-Dichloropropene	(1)	4.074(0.003)	75	162336	20.552	20.55			1.00	5.00
58) Carbon Tetrachloride	(1)	4.086(0.003)	117	167851	22.226	22.23			1.00	5.00
63) Benzene	(1)	4.275(0.001)	78	485809	20.717	20.72			0.50	5.00
65) 1,2-Dichloroethane	(1)	4.287(0.001)	62	181463	20.955	20.95			1.00	5.00
74) Trichloroethene	(1)	4.919(0.001)	95	126390	21.038	21.04			1.00	5.00
77) 1,2-Dichloropropane	(1)	5.138(0.002)	63	126718	20.509	20.51			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PA19DMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859197

File: /chem2/HP09355.i/09dec10b.b/yd10s31.d
Sample: PA19DMS;5859197;1;3;MS;;;;yd10b06;;;
Injected At:10-DEC-2009 17:26
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)	5.254(0.002)	93	76140	19.930	19.93			1.00	5.00
83) Bromodichloromethane	(1)	5.430(0.002)	83	150710	20.887	20.89			1.00	5.00
87) cis-1,3-Dichloropropene	(1)	5.905(0.002)	75	163763	17.540	17.54			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)	6.087(0.002)	43	795783	88.863	88.86			3.00	10.00
94) Toluene	(2)	6.264(-0.001)	92	311032	21.299	21.30			0.70	5.00
95) trans-1,3-Dichloropropene	(2)	6.507(0.000)	75	162702	18.813	18.81			1.00	5.00
97) 1,1,2-Trichloroethane	(2)	6.702(-0.001)	97	108732	20.746	20.75			0.80	5.00
98) Tetrachloroethene	(2)	6.860(-0.001)	166	146546	19.952	19.95			0.80	5.00
99) 1,3-Dichloropropane	(2)	6.884(-0.001)	76	186336	20.324	20.32			1.00	5.00
102) Dibromochloromethane	(2)	7.128(-0.001)	129	116875	20.611	20.61			1.00	5.00
104) 1,2-Dibromoethane	(2)	7.237(-0.001)	107	112484	19.887	19.89			1.00	5.00
107) Chlorobenzene	(2)	7.748(-0.001)	112	345380	20.702	20.70			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)	7.833(0.000)	131	121120	21.359	21.36			1.00	5.00
109) Ethylbenzene	(2)	7.870(-0.001)	91	576308	20.436	20.44			0.80	5.00
110) m+p-Xylene	(2)	7.979(0.000)	106	474706	41.472	41.47			0.80	5.00
112) Xylene (Total)	(2)		106	699598	61.469	61.47			0.80	5.00
113) o-Xylene	(2)	8.332(0.000)	106	224892	19.996	20.00			0.80	5.00
114) Styrene	(2)	8.344(0.000)	104	351080	19.808	19.81			1.00	5.00
115) Bromoform	(2)	8.484(0.000)	173	79879	19.178	19.18			1.00	5.00
116) Isopropylbenzene	(2)	8.655(0.000)	105	570021	19.880	19.88			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)	8.898(-0.001)	83	169905	19.880	19.88			1.00	5.00
121) Bromobenzene	(3)	8.880(0.000)	156	161584	19.912	19.91			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	8.922(0.000)	110	52919	19.380	19.38			1.00	5.00
125) n-Propylbenzene	(3)	8.989(-0.001)	91	734360	20.487	20.49			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PA19DMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859197

File: /chem2/HP09355.i/09dec10b.b/yd10s31.d
Sample: PA19DMS;5859197;1;3;MS;;;;yd10b06;;;
Injected At:10-DEC-2009 17:26
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)	9.044(0.000)	126	147505	19.484	19.48			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)	9.129(0.000)	105	523389	19.736	19.74			1.00	5.00
128) 4-Chlorotoluene	(3)	9.129(0.000)	126	153625	19.797	19.80			1.00	5.00
130) tert-Butylbenzene	(3)	9.379(0.000)	134	116712	18.612	18.61			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)	9.415(-0.001)	105	542220	19.852	19.85			1.00	5.00
133) sec-Butylbenzene	(3)	9.543(0.000)	105	638150	18.953	18.95			1.00	5.00
135) p-Isopropyltoluene	(3)	9.652(0.000)	119	576730	18.894	18.89			1.00	5.00
134) 1,3-Dichlorobenzene	(3)	9.610(0.000)	146	312268	19.656	19.66			1.00	5.00
138) 1,4-Dichlorobenzene	(3)	9.677(0.000)	146	329515	19.923	19.92			1.00	5.00
145) n-Butylbenzene	(3)	9.944(0.000)	92	289281	19.376	19.38			1.00	5.00
144) 1,2-Dichlorobenzene	(3)	9.944(0.000)	146	314100	19.977	19.98			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)	10.486(-0.001)	75	30415	16.343	16.34			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)	11.040(0.000)	180	196002	15.227	15.23			1.00	5.00
151) Hexachlorobutadiene	(3)	11.161(-0.001)	225	107896	17.600	17.60			2.00	5.00
152) Naphthalene	(3)	11.198(0.000)	128	476840	13.914	13.91			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)	11.356(0.000)	180	195311	15.848	15.85			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: client

Analyst: Umor Date: 12/12/09

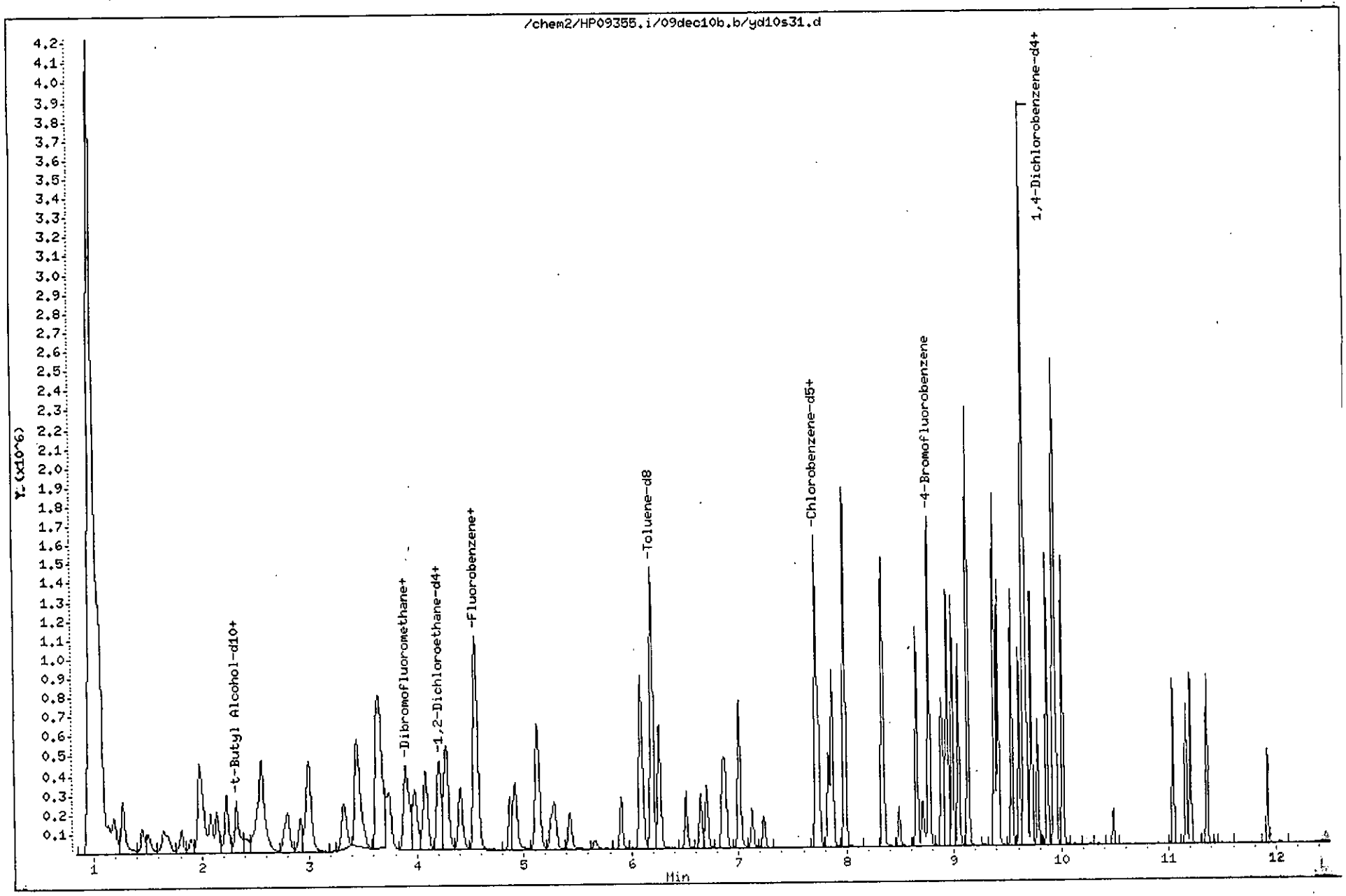
Auditor: [signature] Date: 12-18-09

PTL84 0296

Data File: /chem2/HP09355.i/09dec10b.b/yd10s31.d
Date : 10-DEC-2009 17:26
Client ID: PA19DMS
Sample Info: PA19DMS;5859197;1;3;MS;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s31.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:26 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 12-Dec-2009 13:50 lcm01518

Sample Name: PA19DMS Lab Sample ID: 5859197

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.135	85	203799	23.466
3) Chloromethane	(1)	1.190	50	188109	21.509
5) Vinyl Chloride	(1)	1.269	62	167021	20.106
7) Bromomethane	(1)	1.452	94	103808	20.140
8) Chloroethane	(1)	1.507	64	97943	21.727
10) Trichlorofluoromethane	(1)	1.646	101	222604	23.243
16) 1,1-Dichloroethene	(1)	1.981	96	133193	26.882
17) Acetone	(1)	1.999	58	99585	126.136
26) Methylene Chloride	(1)	2.328	84	122134	21.038
28) *t-Butyl Alcohol-d10	(4)	2.340	65	169615	250.000
31) trans-1,2-Dichloroethene	(1)	2.559	96	118390	21.113
32) Methyl Tertiary Butyl Ether	(1)	2.565	73	367336	18.716
34) 1,1-Dichloroethane	(1)	2.918	63	220495	21.214
40) cis-1,2-Dichloroethene	(1)	3.447	96	123437	20.300
41) 2-Butanone	(1)	3.435	43	540535	129.869
42) 2,2-Dichloropropane	(1)	3.453	77	178769	20.280
47) Bromochloromethane	(1)	3.666	128	67781	20.919
50) Chloroform	(1)	3.745	83	225786	22.702
53) 1,1,1-Trichloroethane	(1)	3.928	97	229472	22.408
57) 1,1-Dichloropropene	(1)	4.074	75	162336	20.552
58) Carbon Tetrachloride	(1)	4.086	117	167851	22.226
63) Benzene	(1)	4.275	78	485809	20.717
65) 1,2-Dichloroethane	(1)	4.287	62	181463	20.955
71) *Fluorobenzene	(1)	4.554	96	1122239	50.000
74) Trichloroethene	(1)	4.919	95	126390	21.038
77) 1,2-Dichloropropane	(1)	5.138	63	126718	20.509
78) Dibromomethane	(1)	5.254	93	76140	19.930
83) Bromodichloromethane	(1)	5.430	83	150710	20.887
87) cis-1,3-Dichloropropene	(1)	5.905	75	163763	17.540
89) 4-Methyl-2-Pentanone	(1)	6.087	43	795783	88.863
94) Toluene	(2)	6.264	92	311032	21.299
95) trans-1,3-Dichloropropene	(2)	6.507	75	162702	18.813
97) 1,1,2-Trichloroethane	(2)	6.702	97	108732	20.746
98) Tetrachloroethene	(2)	6.860	166	146546	19.952

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s31.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:26 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 12-Dec-2009 13:50 lcm01518

Sample Name: PA19DMS Lab Sample ID: 5859197

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
99) 1,3-Dichloropropane	(2)	6.884	76	186336	20.324
102) Dibromochloromethane	(2)	7.128	129	116875	20.611
104) 1,2-Dibromoethane	(2)	7.237	107	112484	19.887
106) *Chlorobenzene-d5	(2)	7.718	117	825575	50.000
107) Chlorobenzene	(2)	7.748	112	345380	20.702
108) 1,1,1,2-Tetrachloroethane	(2)	7.833	131	121120	21.359
109) Ethylbenzene	(2)	7.870	91	576308	20.436
110) m+p-Xylene	(2)	7.979	106	474706	41.472
112) Xylene (Total)	(2)		106	699598	61.469
113) o-Xylene	(2)	8.332	106	224892	19.996
114) Styrene	(2)	8.344	104	351080	19.808
115) Bromoform	(2)	8.484	173	79879	19.178
116) Isopropylbenzene	(2)	8.655	105	570021	19.880
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	169905	19.880
121) Bromobenzene	(3)	8.880	156	161584	19.912
123) 1,2,3-Trichloropropane	(3)	8.922	110	52919	19.380
125) n-Propylbenzene	(3)	8.989	91	734360	20.487
126) 2-Chlorotoluene	(3)	9.044	126	147505	19.484
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	523389	19.736
128) 4-Chlorotoluene	(3)	9.129	126	153625	19.797
130) tert-Butylbenzene	(3)	9.379	134	116712	18.612
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	542220	19.852
133) sec-Butylbenzene	(3)	9.543	105	638150	18.953
135) p-Isopropyltoluene	(3)	9.652	119	576730	18.894
134) 1,3-Dichlorobenzene	(3)	9.610	146	312268	19.656
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	541527	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	329515	19.923
145) n-Butylbenzene	(3)	9.944	92	289281	19.376
144) 1,2-Dichlorobenzene	(3)	9.944	146	314100	19.977
148) 1,2-Dibromo-3-Chloropropane	(3)	10.486	75	30415	16.343
150) 1,2,4-Trichlorobenzene	(3)	11.040	180	196002	15.227
151) Hexachlorobutadiene	(3)	11.161	225	107896	17.600
152) Naphthalene	(3)	11.198	128	476840	13.914
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	195311	15.848

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s31.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:26 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 12-Dec-2009 13:50 lcm01518

Sample Name: PA19DMS Lab Sample ID: 5859197

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
52)$Dibromofluoromethane	(1)	3.897	113	274106	47.924
62)$1,2-Dichloroethane-d4	(1)	4.220	102	67137	45.744
93)$Toluene-d8	(2)	6.191	98	1121468	49.005
119)$4-Bromofluorobenzene	(2)	8.770	95	424560	49.228

$ = Compound is a surrogate standard.

PA19DMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859198

File: /chem2/HP09355.i/09dec10b.b/yd10s32.d
Sample: PA19DMSD;5859198;1;3;MSD;;;;yd10b06;;;
Injected At:10-DEC-2009 17:47
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.346(0.000)	249	65	173129(-6)	250.00	
71) Fluorobenzene	4.548(0.000)	611	96	1178632(0)	50.00	
106) Chlorobenzene-d5	7.718(0.006)	1132	117	865110(0)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	560047(-1)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.891(0.001)	113	286680	47.725	95%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.214(-0.001)	102	71059	46.100	92%		77 - 113
93) Toluene-d8	(2)	6.191(-0.001)	98	1164908	48.577	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.764(0.000)	95	444109	49.142	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.135(0.000)	85	201616	22.104	22.10			2.00	5.00
3) Chloromethane	(1)	1.190(0.001)	50	193548	21.072	21.07			1.00	5.00
5) Vinyl Chloride	(1)	1.269(0.004)	62	170975	19.598	19.60			1.00	5.00
7) Bromomethane	(1)	1.446(0.003)	94	105378	19.467	19.47			1.00	5.00
8) Chloroethane	(1)	1.500(0.001)	64	102635	21.678	21.68			1.00	5.00
10) Trichlorofluoromethane	(1)	1.640(0.001)	101	222682	22.139	22.14			2.00	5.00
16) 1,1-Dichloroethene	(1)	1.975(0.000)	96	133571	25.669	25.67			0.80	5.00
17) Acetone	(1)	1.999(0.000)	58	100243	120.895	120.89			6.00	20.00
26) Methylene Chloride	(1)	2.322(0.000)	84	119026	19.521	19.52			2.00	5.00
31) trans-1,2-Dichloroethene	(1)	2.553(0.000)	96	116496	19.782	19.78			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)	2.559(0.001)	73	371502	18.023	18.02			0.50	5.00
34) 1,1-Dichloroethane	(1)	2.912(0.001)	63	220498	20.200	20.20			1.00	5.00
40) cis-1,2-Dichloroethene	(1)	3.441(0.000)	96	124754	19.535	19.53			0.80	5.00
41) 2-Butanone	(1)	3.429(0.001)	43	544587	124.582	124.58			3.00	10.00
42) 2,2-Dichloropropane	(1)	3.447(0.003)	77	181109	19.562	19.56			1.00	5.00
47) Bromochloromethane	(1)	3.660(0.001)	128	69596	20.452	20.45			1.00	5.00
50) Chloroform	(1)	3.745(0.000)	83	221524	21.208	21.21			0.80	5.00
53) 1,1,1-Trichloroethane	(1)	3.922(0.001)	97	233013	21.665	21.67			0.80	5.00
57) 1,1-Dichloropropene	(1)	4.074(0.001)	75	163145	19.666	19.67			1.00	5.00
58) Carbon Tetrachloride	(1)	4.086(0.001)	117	169758	21.403	21.40			1.00	5.00
63) Benzene	(1)	4.275(0.000)	78	486013	19.734	19.73			0.50	5.00
65) 1,2-Dichloroethane	(1)	4.281(0.001)	62	178633	19.641	19.64			1.00	5.00
74) Trichloroethene	(1)	4.913(0.001)	95	129072	20.457	20.46			1.00	5.00
77) 1,2-Dichloropropane	(1)	5.132(0.001)	63	125353	19.317	19.32			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 0381

PA19DMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859198

File: /chem2/HP09355.i/09dec10b.b/yd10s32.d
Sample: PA19DMSD;5859198;1;3;MSD;;;;yd10b06;;;
Injected At:10-DEC-2009 17:47
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Matrix: WATER
Analyst:NRR01826
Level: Low
Instrument ID:HP09355.i
Sample Wt./Vol.: 5.0000 ml (Vo)
Standard Reference: yd10c05.d
Volume Purged: 5.0 ml (Vt)
Prep Factor:1.00
Units: ug/L
Bottle Code:38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
78) Dibromomethane	(1)	5.254(0.000)	93	75526	18.824	18.82			1.00	5.00
83) Bromodichloromethane	(1)	5.430(0.000)	83	149949	19.788	19.79			1.00	5.00
87) cis-1,3-Dichloropropene	(1)	5.905(0.000)	75	168241	17.157	17.16			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)	6.088(0.000)	43	806468	85.748	85.75			3.00	10.00
94) Toluene	(2)	6.264(-0.001)	92	311165	20.334	20.33			0.70	5.00
95) trans-1,3-Dichloropropene	(2)	6.507(0.000)	75	164577	18.160	18.16			1.00	5.00
97) 1,1,2-Trichloroethane	(2)	6.702(-0.001)	97	109651	19.965	19.97			0.80	5.00
98) Tetrachloroethene	(2)	6.854(0.000)	166	147755	19.197	19.20			0.80	5.00
99) 1,3-Dichloropropane	(2)	6.878(0.000)	76	186206	19.382	19.38			1.00	5.00
102) Dibromochloromethane	(2)	7.128(-0.001)	129	116738	19.646	19.65			1.00	5.00
104) 1,2-Dibromoethane	(2)	7.231(0.000)	107	111974	18.892	18.89			1.00	5.00
107) Chlorobenzene	(2)	7.748(-0.001)	112	351400	20.100	20.10			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)	7.833(0.000)	131	120826	20.334	20.33			1.00	5.00
109) Ethylbenzene	(2)	7.870(-0.001)	91	575910	19.489	19.49			0.80	5.00
110) m+p-Xylene	(2)	7.979(0.000)	106	474432	39.554	39.55			0.80	5.00
112) Xylene (Total)	(2)		106	697183	58.455	58.46			0.80	5.00
113) o-Xylene	(2)	8.332(0.000)	106	222751	18.901	18.90			0.80	5.00
114) Styrene	(2)	8.344(0.000)	104	345570	18.606	18.61			1.00	5.00
115) Bromoform	(2)	8.484(0.000)	173	80722	18.586	18.59			1.00	5.00
116) Isopropylbenzene	(2)	8.655(0.000)	105	571306	19.014	19.01			1.00	5.00
122) 1,1,2,2-Tetrachloroethane	(3)	8.898(-0.001)	83	170560	19.297	19.30			1.00	5.00
121) Bromobenzene	(3)	8.880(0.000)	156	160466	19.121	19.12			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	8.922(0.000)	110	52137	18.462	18.46			1.00	5.00
125) n-Propylbenzene	(3)	8.989(-0.001)	91	727474	19.624	19.62			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 0302

PA19DMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5859198

File: /chem2/HP09355.i/09dec10b.b/yd10s32.d
Sample: PA19DMSD;5859198;1;3;MSD;;;;yd10b06;;;
Injected At:10-DEC-2009 17:47
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: PALMER

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
126) 2-Chlorotoluene	(3)	9.044(0.000)	126	148770	19.001	19.00			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)	9.129(0.000)	105	521365	19.009	19.01			1.00	5.00
128) 4-Chlorotoluene	(3)	9.129(0.000)	126	152523	19.005	19.00			1.00	5.00
130) tert-Butylbenzene	(3)	9.379(0.000)	134	116487	17.962	17.96			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)	9.415(-0.001)	105	538971	19.081	19.08			1.00	5.00
133) sec-Butylbenzene	(3)	9.543(0.000)	105	643350	18.476	18.48			1.00	5.00
135) p-Isopropyltoluene	(3)	9.652(0.000)	119	577791	18.303	18.30			1.00	5.00
134) 1,3-Dichlorobenzene	(3)	9.610(0.000)	146	310300	18.886	18.89			1.00	5.00
138) 1,4-Dichlorobenzene	(3)	9.677(0.000)	146	332210	19.422	19.42			1.00	5.00
145) n-Butylbenzene	(3)	9.944(0.000)	92	291330	18.868	18.87			1.00	5.00
144) 1,2-Dichlorobenzene	(3)	9.944(0.000)	146	315865	19.425	19.42			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)	10.480(0.000)	75	30563	15.879	15.88			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)	11.040(0.000)	180	200824	15.086	15.09			1.00	5.00
151) Hexachlorobutadiene	(3)	11.161(-0.001)	225	111113	17.525	17.53			2.00	5.00
152) Naphthalene	(3)	11.198(0.000)	128	504000	14.221	14.22			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)	11.356(0.000)	180	202654	15.900	15.90			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: client

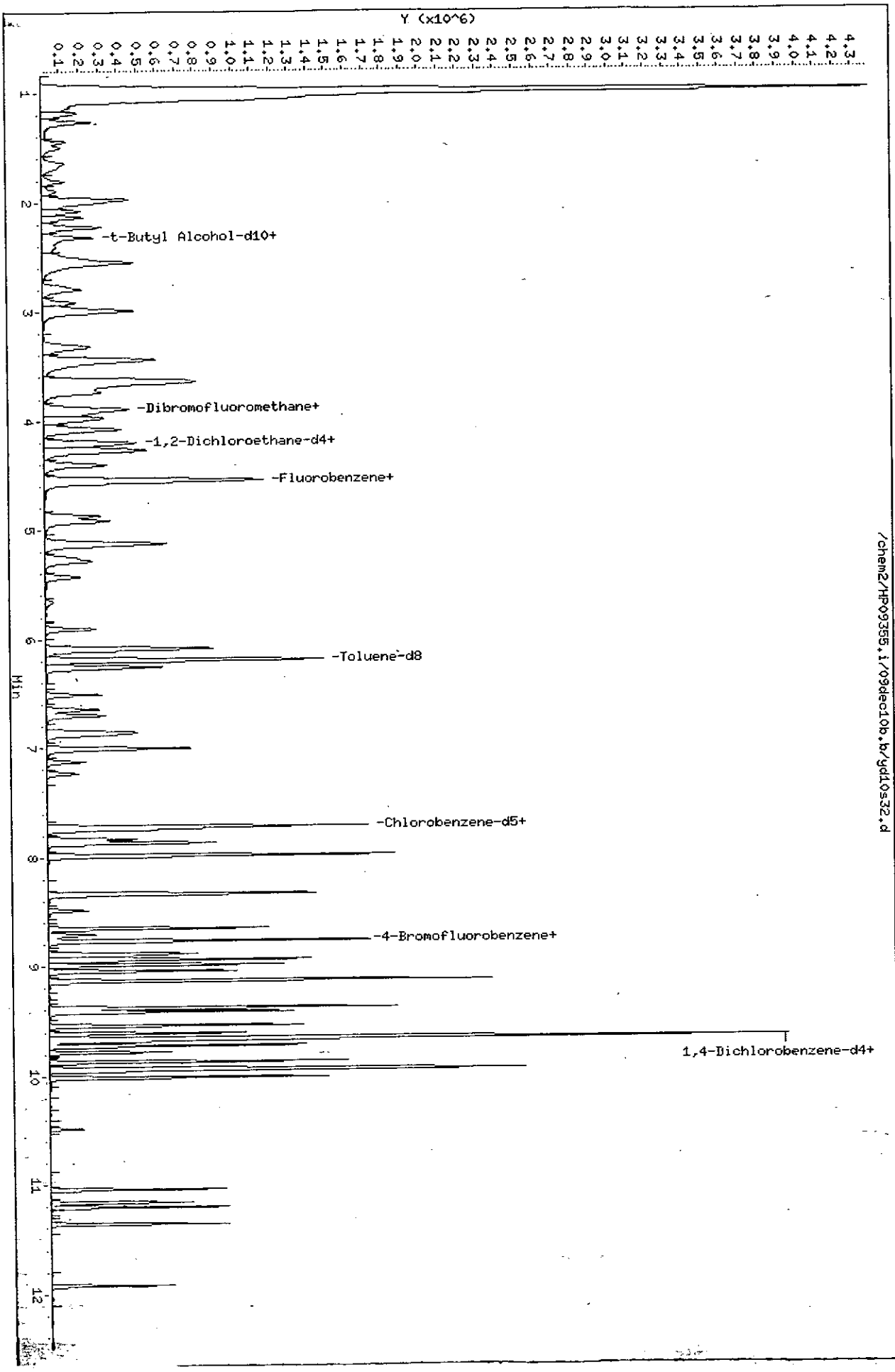
Analyst: Linnor Date: 12/12/09

Auditor: [signature] Date: 12-18-09

PTL84 0383

Data File: /chem2/HP09355.i/09dec10b.b/yd10s32.d
Date : 10-DEC-2009 17:47
Client ID: PA19DMSD
Sample Info: PA19DMSD;5859198;1;3;MSD;;;;yd10b06;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i
Operator: NRR01826
Column diameter: 0.18



PTL04 P3394

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s32.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:47 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 12-Dec-2009 13:50 lcm01518

Sample Name: PA19DMSD Lab Sample ID: 5859198

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.135	85	201616	22.104
3) Chloromethane	(1)	1.190	50	193548	21.072
5) Vinyl Chloride	(1)	1.269	62	170975	19.598
7) Bromomethane	(1)	1.446	94	105378	19.467
8) Chloroethane	(1)	1.500	64	102635	21.678
10) Trichlorofluoromethane	(1)	1.640	101	222682	22.139
16) 1,1-Dichloroethene	(1)	1.975	96	133571	25.669
17) Acetone	(1)	1.999	58	100243	120.895
26) Methylene Chloride	(1)	2.322	84	119026	19.521
28) *t-Butyl Alcohol-d10	(4)	2.346	65	173129	250.000
31) trans-1,2-Dichloroethene	(1)	2.553	96	116496	19.782
32) Methyl Tertiary Butyl Ether	(1)	2.559	73	371502	18.023
34) 1,1-Dichloroethane	(1)	2.912	63	220498	20.200
40) cis-1,2-Dichloroethene	(1)	3.441	96	124754	19.535
41) 2-Butanone	(1)	3.429	43	544587	124.582
42) 2,2-Dichloropropane	(1)	3.447	77	181109	19.562
47) Bromochloromethane	(1)	3.660	128	69596	20.452
50) Chloroform	(1)	3.745	83	221524	21.208
53) 1,1,1-Trichloroethane	(1)	3.922	97	233013	21.665
57) 1,1-Dichloropropene	(1)	4.074	75	163145	19.666
58) Carbon Tetrachloride	(1)	4.086	117	169758	21.403
63) Benzene	(1)	4.275	78	486013	19.734
65) 1,2-Dichloroethane	(1)	4.281	62	178633	19.641
71) *Fluorobenzene	(1)	4.548	96	1178632	50.000
74) Trichloroethene	(1)	4.913	95	129072	20.457
77) 1,2-Dichloropropane	(1)	5.132	63	125353	19.317
78) Dibromomethane	(1)	5.254	93	75526	18.824
83) Bromodichloromethane	(1)	5.430	83	149949	19.788
87) cis-1,3-Dichloropropene	(1)	5.905	75	168241	17.157
89) 4-Methyl-2-Pentanone	(1)	6.088	43	806468	85.748
94) Toluene	(2)	6.264	92	311165	20.334
95) trans-1,3-Dichloropropene	(2)	6.507	75	164577	18.160
97) 1,1,2-Trichloroethane	(2)	6.702	97	109651	19.965
98) Tetrachloroethene	(2)	6.854	166	147755	19.197

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s32.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:47 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 12-Dec-2009 13:50 lcm01518

Sample Name: PA19DMSD Lab Sample ID: 5859198

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
99) 1,3-Dichloropropane	(2)	6.878	76	186206	19.382
102) Dibromochloromethane	(2)	7.128	129	116738	19.646
104) 1,2-Dibromoethane	(2)	7.231	107	111974	18.892
106) *Chlorobenzene-d5	(2)	7.718	117	865110	50.000
107) Chlorobenzene	(2)	7.748	112	351400	20.100
108) 1,1,1,2-Tetrachloroethane	(2)	7.833	131	120826	20.334
109) Ethylbenzene	(2)	7.870	91	575910	19.489
110) m+p-Xylene	(2)	7.979	106	474432	39.554
112) Xylene (Total)	(2)		106	697183	58.455
113) o-Xylene	(2)	8.332	106	222751	18.901
114) Styrene	(2)	8.344	104	345570	18.606
115) Bromoform	(2)	8.484	173	80722	18.586
116) Isopropylbenzene	(2)	8.655	105	571306	19.014
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	170560	19.297
121) Bromobenzene	(3)	8.880	156	160466	19.121
123) 1,2,3-Trichloropropane	(3)	8.922	110	52137	18.462
125) n-Propylbenzene	(3)	8.989	91	727474	19.624
126) 2-Chlorotoluene	(3)	9.044	126	148770	19.001
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	521365	19.009
128) 4-Chlorotoluene	(3)	9.129	126	152523	19.005
130) tert-Butylbenzene	(3)	9.379	134	116487	17.962
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	538971	19.081
133) sec-Butylbenzene	(3)	9.543	105	643350	18.476
135) p-Isopropyltoluene	(3)	9.652	119	577791	18.303
134) 1,3-Dichlorobenzene	(3)	9.610	146	310300	18.886
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	560047	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	332210	19.422
145) n-Butylbenzene	(3)	9.944	92	291330	18.868
144) 1,2-Dichlorobenzene	(3)	9.944	146	315865	19.425
148) 1,2-Dibromo-3-Chloropropane	(3)	10.480	75	30563	15.879
150) 1,2,4-Trichlorobenzene	(3)	11.040	180	200824	15.086
151) Hexachlorobutadiene	(3)	11.161	225	111113	17.525
152) Naphthalene	(3)	11.198	128	504000	14.221
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	202654	15.900

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10s32.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 17:47 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: PALMER
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 12-Dec-2009 13:50 lcm01518

Sample Name: PA19DMSD Lab Sample ID: 5859198

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
52)$Dibromofluoromethane	(1)	3.891	113	286680	47.725
62)$1,2-Dichloroethane-d4	(1)	4.214	102	71059	46.100
93)$Toluene-d8	(2)	6.191	98	1164908	48.577
119)$4-Bromofluorobenzene	(2)	8.764	95	444109	49.142

$ = Compound is a surrogate standard.

LCSY40

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSY40

File: /chem2/HP09355.i/09dec10b.b/yd10105.d
Sample: LCSY40;LCSY40;1;3;LCS;;;;yd10b06;;
Injected At:10-DEC-2009 16:04
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
28) t-Butyl Alcohol-d10	2.352(-0.006)	250	65	169530(-8)	250.00	
71) Fluorobenzene	4.555(-0.006)	612	96	1188157(1)	50.00	
106) Chlorobenzene-d5	7.724(0.000)	1133	117	866594(1)	50.00	
136) 1,4-Dichlorobenzene-d4	9.659(0.006)	1451	152	561910(0)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(1)	3.898(0.001)	113	284960	47.058	94%		80 - 116
62) 1,2-Dichloroethane-d4	(1)	4.220(-0.001)	102	71089	45.750	91%		77 - 113
93) Toluene-d8	(2)	6.191(0.000)	98	1160337	48.303	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	8.770(0.000)	95	447450	49.427	99%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.142(-0.001)	85	157004	17.075	17.07			2.00	5.00
3) Chloromethane	(1)	1.196(0.000)	50	196016	21.170	21.17			1.00	5.00
5) Vinyl Chloride	(1)	1.275(0.003)	62	153160	17.415	17.41			1.00	5.00
7) Bromomethane	(1)	1.458(0.000)	94	102646	18.810	18.81			1.00	5.00
8) Chloroethane	(1)	1.507(0.000)	64	94466	19.793	19.79			1.00	5.00
10) Trichlorofluoromethane	(1)	1.647(0.000)	101	183926	18.139	18.14			2.00	5.00
13) Ethyl Ether	(1)	1.817(-0.001)	59	84020	15.434	15.43			2.00	5.00
15) Acrolein	(4)	1.902(0.000)	56	77962	58.194	58.19		J	40.00	100.00
16) 1,1-Dichloroethene	(1)	1.981(-0.001)	96	101304	19.312	19.31			0.80	5.00
18) Freon 113	(1)	2.012(-0.001)	101	99228	16.937	16.94			2.00	10.00
17) Acetone	(1)	2.006(-0.001)	58	160695	192.247	192.25			6.00	20.00
20) Methyl Iodide	(1)	2.091(-0.001)	142	207246	18.480	18.48			1.00	5.00
21) 2-Propanol	(4)	2.097(0.000)	45	82060	149.031	149.03			50.00	100.00
22) Carbon Disulfide	(1)	2.145(0.001)	76	326379	19.286	19.29			1.00	5.00
24) Allyl Chloride	(1)	2.237(-0.001)	41	221437	21.810	21.81			1.00	5.00
25) Methyl Acetate	(1)	2.249(-0.001)	43	149889	22.205	22.21			1.00	5.00
26) Methylene Chloride	(1)	2.328(-0.001)	84	125639	20.441	20.44			2.00	5.00
29) t-Butyl Alcohol	(4)	2.419(-0.003)	59	156164	178.883	178.88			10.00	80.00
30) Acrylonitrile	(1)	2.523(-0.001)	53	282902	86.727	86.73			4.00	20.00
31) trans-1,2-Dichloroethene	(1)	2.559(-0.001)	96	120550	20.306	20.31			0.80	5.00
32) Methyl Tertiary Butyl Ether	(1)	2.571(-0.001)	73	395149	19.016	19.02			0.50	5.00
33) n-Hexane	(1)	2.802(-0.001)	57	131806	13.943	13.94			2.00	5.00
45) 1,2-Dichloroethene (total)	(1)		96	249364	40.315	40.31			0.80	5.00
34) 1,1-Dichloroethane	(1)	2.924(0.000)	63	222692	20.237	20.24			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PDL84 8308

LCSY40

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSY40

File: /chem2/HP09355.i/09dec10b.b/yd10105.d
Sample: LCSY40;LCSY40;1;3;LCS;;;;yd10b06;;
Injected At:10-DEC-2009 16:04
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
36) di-Isopropyl Ether	(1)	2.997(0.000)	45	421028	19.284	19.28			0.80	5.00
37) 2-Chloro-1,3-Butadiene	(1)	3.009(0.000)	53	202446	20.557	20.56			1.00	5.00
39) Ethyl t-Butyl Ether	(1)	3.326(0.001)	59	374993	17.841	17.84			0.80	5.00
40) cis-1,2-Dichloroethene	(1)	3.447(0.000)	96	128814	20.009	20.01			0.80	5.00
41) 2-Butanone	(1)	3.435(0.001)	43	698648	158.544	158.54			3.00	10.00
42) 2,2-Dichloropropane	(1)	3.453(0.002)	77	179973	19.284	19.28			1.00	5.00
43) Propionitrile	(4)	3.484(0.004)	54	171862	173.226	173.23			30.00	100.00
46) Methacrylonitrile	(1)	3.636(0.001)	67	473220	141.798	141.80			10.00	50.00
47) Bromochloromethane	(1)	3.672(0.000)	128	70611	20.584	20.58			1.00	5.00
48) Tetrahydrofuran	(4)	3.703(0.004)	71	98116	112.611	112.61			4.00	10.00
50) Chloroform	(1)	3.752(0.000)	83	218589	20.759	20.76			0.80	5.00
53) 1,1,1-Trichloroethane	(1)	3.928(0.001)	97	222103	20.485	20.49			0.80	5.00
56) Cyclohexane	(1)	3.989(0.001)	56	187290	16.233	16.23			2.00	5.00
57) 1,1-Dichloropropene	(1)	4.080(0.001)	75	160197	19.156	19.16			1.00	5.00
58) Carbon Tetrachloride	(1)	4.092(0.001)	117	165757	20.731	20.73			1.00	5.00
59) Isobutyl Alcohol	(4)	4.202(0.005)	41	136723	524.192	524.19			100.00	250.00
63) Benzene	(1)	4.281(0.000)	78	499616	20.124	20.12			0.50	5.00
65) 1,2-Dichloroethane	(1)	4.287(0.001)	62	186510	20.342	20.34			1.00	5.00
69) t-Amyl Methyl Ether	(1)	4.409(0.001)	73	350756	17.738	17.74			0.80	5.00
72) n-Heptane	(1)	4.567(0.001)	43	163198	14.726	14.73			2.00	5.00
73) n-Butanol	(4)	4.877(0.003)	56	203204	926.191	926.19			100.00	250.00
74) Trichloroethene	(1)	4.920(0.001)	95	125690	19.761	19.76			1.00	5.00
77) 1,2-Dichloropropane	(1)	5.139(0.002)	63	130279	19.915	19.92			1.00	5.00
76) Methylcyclohexane	(1)	5.126(0.002)	83	187867	16.266	16.27			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 8389

LCSY40

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSY40

File: /chem2/HP09355.i/09dec10b.b/yd10105.d
Sample: LCSY40;LCSY40;1;3;LCS;;;;yd10b06;;
Injected At:10-DEC-2009 16:04
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Methyl Methacrylate	(1)	5.291	(0.002)	69	93313	17.688	17.69			1.00	5.00
78) Dibromomethane	(1)	5.260	(0.000)	93	80269	19.845	19.85			1.00	5.00
79) 1,4-Dioxane	(4)	5.285	(0.006)	88	29794	363.098	363.10			70.00	250.00
83) Bromodichloromethane	(1)	5.431	(0.002)	83	156919	20.541	20.54			1.00	5.00
85) 2-Nitropropane	(1)	5.662	(0.002)	41	37561	19.337	19.34			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	(0.002)	63	76463	16.787	16.79			2.00	10.00
87) cis-1,3-Dichloropropene	(1)	5.905	(0.002)	75	186213	18.838	18.84			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)	6.088	(0.002)	43	846296	89.261	89.26			3.00	10.00
94) Toluene	(2)	6.264	(0.000)	92	314480	20.515	20.52			0.70	5.00
95) trans-1,3-Dichloropropene	(2)	6.513	(0.000)	75	175711	19.356	19.36			1.00	5.00
96) Ethyl Methacrylate	(2)	6.647	(0.000)	69	161842	18.033	18.03			1.00	5.00
97) 1,1,2-Trichloroethane	(2)	6.702	(0.000)	97	112890	20.520	20.52			0.80	5.00
98) Tetrachloroethene	(2)	6.860	(0.000)	166	145558	18.879	18.88			0.80	5.00
99) 1,3-Dichloropropane	(2)	6.885	(0.000)	76	194712	20.232	20.23			1.00	5.00
101) 2-Hexanone	(2)	7.006	(0.000)	43	647654	98.369	98.37			3.00	10.00
102) Dibromochloromethane	(2)	7.128	(0.000)	129	125619	21.104	21.10			1.00	5.00
104) 1,2-Dibromoethane	(2)	7.237	(0.000)	107	118803	20.010	20.01			1.00	5.00
107) Chlorobenzene	(2)	7.748	(0.000)	112	352826	20.147	20.15			0.80	5.00
108) 1,1,1,2-Tetrachloroethane	(2)	7.834	(0.001)	131	124946	20.991	20.99			1.00	5.00
109) Ethylbenzene	(2)	7.870	(0.000)	91	583994	19.729	19.73			0.80	5.00
110) m+p-Xylene	(2)	7.980	(0.001)	106	479174	39.881	39.88			0.80	5.00
112) Xylene (Total)	(2)			106	709699	59.408	59.41			0.80	5.00
113) o-Xylene	(2)	8.332	(0.001)	106	230525	19.527	19.53			0.80	5.00
114) Styrene	(2)	8.345	(0.001)	104	361262	19.418	19.42			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL84 8310

LCSY40

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSY40

File: /chem2/HP09355.i/09dec10b.b/yd10105.d
Sample: LCSY40;LCSY40;1;3;LCS;;;;yd10b06;;
Injected At:10-DEC-2009 16:04
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
115) Bromoform	(2)	8.485	(0.001)	173	88006	20.002	20.00			1.00	5.00
116) Isopropylbenzene	(2)	8.655	(0.001)	105	568183	18.878	18.88			1.00	5.00
118) Cyclohexanone	(4)	8.710	(0.010)	55	104230	384.642	384.64			55.00	250.00
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	(-0.001)	83	179122	20.198	20.20			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)	8.941	(0.000)	53	259189	89.698	89.70			15.00	50.00
121) Bromobenzene	(3)	8.880	(0.000)	156	165862	19.698	19.70			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	8.923	(0.000)	110	54626	19.280	19.28			1.00	5.00
125) n-Propylbenzene	(3)	8.989	(-0.001)	91	736742	19.808	19.81			1.00	5.00
126) 2-Chlorotoluene	(3)	9.044	(0.000)	126	150931	19.213	19.21			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)	9.129	(0.000)	105	533499	19.387	19.39			1.00	5.00
128) 4-Chlorotoluene	(3)	9.129	(0.000)	126	157866	19.605	19.61			1.00	5.00
130) tert-Butylbenzene	(3)	9.379	(0.000)	134	116576	17.916	17.92			1.00	5.00
131) Pentachloroethane	(3)	9.385	(-0.001)	167	104942	22.209	22.21			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)	9.415	(-0.001)	105	552171	19.483	19.48			1.00	5.00
133) sec-Butylbenzene	(3)	9.543	(0.000)	105	636742	18.225	18.23			1.00	5.00
135) p-Isopropyltoluene	(3)	9.653	(0.000)	119	578666	18.270	18.27			1.00	5.00
134) 1,3-Dichlorobenzene	(3)	9.610	(0.000)	146	318594	19.326	19.33			1.00	5.00
138) 1,4-Dichlorobenzene	(3)	9.677	(0.000)	146	341632	19.906	19.91			1.00	5.00
139) 1,2,3-Trimethylbenzene	(3)	9.726	(-0.001)	105	577573	19.781	19.78			1.00	5.00
141) Benzyl Chloride	(3)	9.780	(-0.001)	91	342511	18.532	18.53			1.00	5.00
142) 1,3-Diethylbenzene	(3)	9.872	(0.000)	119	339645	18.269	18.27			1.00	5.00
143) 1,4-Diethylbenzene	(3)	9.932	(-0.001)	119	351943	18.730	18.73			1.00	5.00
145) n-Butylbenzene	(3)	9.945	(0.000)	92	287881	18.583	18.58			1.00	5.00
144) 1,2-Dichlorobenzene	(3)	9.945	(0.000)	146	321428	19.702	19.70			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL04 0311

LCSY40 Lancaster Laboratories LCSY40

Quantitation Report GC/MS Volatiles

File: /chem2/HP09355.i/09dec10b.b/yd10105.d
Sample: LCSY40;LCSY40;1;3;LCS;;;;yd10b06;;
Injected At:10-DEC-2009 16:04
Calibration Time: 28-SEP-2009 09:51
Target Method: Y8260W.m
Blank Reference: yd10b06.d
Sublist: 8260W-4

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:Y093442AA
Analyst:NRR01826
Instrument ID:HP09355.i
Standard Reference: yd10c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
146) 1,2-Diethylbenzene	(3)	10.011	(0.000)	119	287415	18.490	18.49			1.00	5.00
148) 1,2-Dibromo-3-Chloropropane	(3)	10.486	(-0.001)	75	31834	16.485	16.48			2.00	5.00
150) 1,2,4-Trichlorobenzene	(3)	11.046	(-0.001)	180	204114	15.282	15.28			1.00	5.00
151) Hexachlorobutadiene	(3)	11.161	(-0.001)	225	106793	16.788	16.79			2.00	5.00
152) Naphthalene	(3)	11.204	(-0.001)	128	523987	14.736	14.74			1.00	5.00
153) 1,2,3-Trichlorobenzene	(3)	11.356	(0.000)	180	207340	16.214	16.21			1.00	5.00
154) 2-Methylnaphthalene	(3)	11.922	(0.000)	142	196914	6.401	6.40			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: NRR 1826 Date: 12/10/09

Auditor: Date: 12-21-09

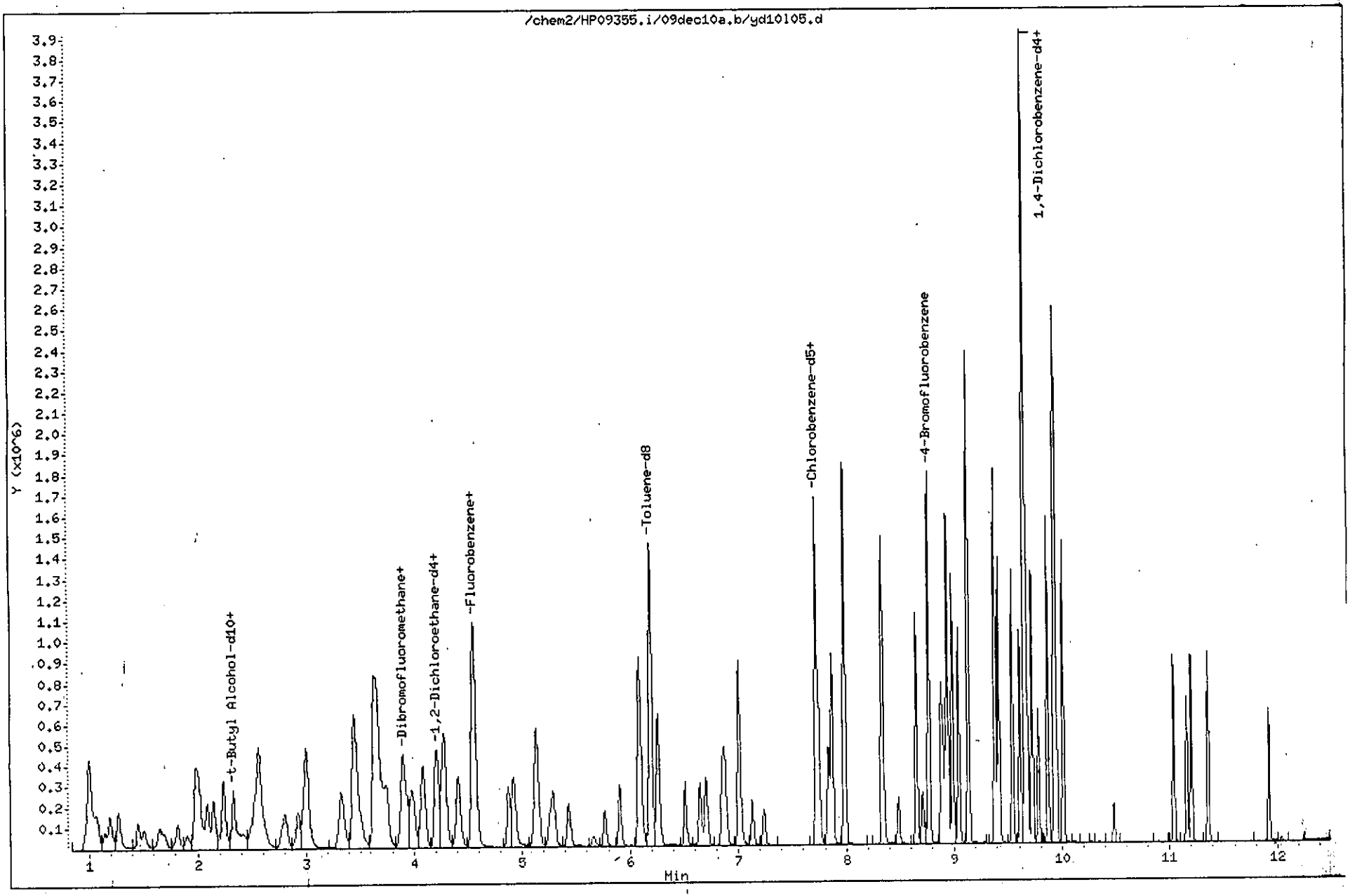
PTL0430312

Data File: /chem2/HP09355.i/09dec10a.b/yd10105.d
Date : 10-DEC-2009 16:04
Client ID: LCSY40
Sample Info: LCSY40;LCSY40;1;3;LCS;;;;yd10b01;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09355.i

Operator: NRR01826
Column diameter: 0.18

PT184 0313



Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10105.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 16:04 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 16:42 maz02012

Sample Name: LCSY40 Lab Sample ID: LCSY40

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.142	85	157004	17.075
3) Chloromethane	(1)	1.196	50	196016	21.170
5) Vinyl Chloride	(1)	1.275	62	153160	17.415
7) Bromomethane	(1)	1.458	94	102646	18.810
8) Chloroethane	(1)	1.507	64	94466	19.793
10) Trichlorofluoromethane	(1)	1.647	101	183926	18.139
13) Ethyl Ether	(1)	1.817	59	84020	15.434
15) Acrolein	(4)	1.902	56	77962	58.194
16) 1,1-Dichloroethene	(1)	1.981	96	101304	19.312
18) Freon 113	(1)	2.012	101	99228	16.937
17) Acetone	(1)	2.006	58	160695	192.247
20) Methyl Iodide	(1)	2.091	142	207246	18.480
21) 2-Propanol	(4)	2.097	45	82060	149.031
22) Carbon Disulfide	(1)	2.145	76	326379	19.286
24) Allyl Chloride	(1)	2.237	41	221437	21.810
25) Methyl Acetate	(1)	2.249	43	149889	22.205
26) Methylene Chloride	(1)	2.328	84	125639	20.441
28) *t-Butyl Alcohol-d10	(4)	2.352	65	169530	250.000
29) t-Butyl Alcohol	(4)	2.419	59	156164	178.883
30) Acrylonitrile	(1)	2.523	53	282902	86.727
31) trans-1,2-Dichloroethene	(1)	2.559	96	120550	20.306
32) Methyl Tertiary Butyl Ether	(1)	2.571	73	395149	19.016
33) n-Hexane	(1)	2.802	57	131806	13.943
45) 1,2-Dichloroethene (total)	(1)		96	249364	40.315
34) 1,1-Dichloroethane	(1)	2.924	63	222692	20.237
36) di-Isopropyl Ether	(1)	2.997	45	421028	19.284
37) 2-Chloro-1,3-Butadiene	(1)	3.009	53	202446	20.557
39) Ethyl t-Butyl Ether	(1)	3.326	59	374993	17.841
40) cis-1,2-Dichloroethene	(1)	3.447	96	128814	20.009
41) 2-Butanone	(1)	3.435	43	698648	158.544
42) 2,2-Dichloropropane	(1)	3.453	77	179973	19.284
43) Propionitrile	(4)	3.484	54	171862	173.226
46) Methacrylonitrile	(1)	3.636	67	473220	141.798
47) Bromochloromethane	(1)	3.672	128	70611	20.584

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10105.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 16:04 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 16:42 maz02012

Sample Name: LCSY40 Lab Sample ID: LCSY40

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
48) Tetrahydrofuran	(4)	3.703	71	98116	112.611
50) Chloroform	(1)	3.752	83	218589	20.759
53) 1,1,1-Trichloroethane	(1)	3.928	97	222103	20.485
56) Cyclohexane	(1)	3.989	56	187290	16.233
57) 1,1-Dichloropropene	(1)	4.080	75	160197	19.156
58) Carbon Tetrachloride	(1)	4.092	117	165757	20.731
59) Isobutyl Alcohol	(4)	4.202	41	136723	524.192
63) Benzene	(1)	4.281	78	499616	20.124
65) 1,2-Dichloroethane	(1)	4.287	62	186510	20.342
69) t-Amyl Methyl Ether	(1)	4.409	73	350756	17.738
72) n-Heptane	(1)	4.567	43	163198	14.726
71) *Fluorobenzene	(1)	4.555	96	1188157	50.000
73) n-Butanol	(4)	4.877	56	203204	926.191
74) Trichloroethene	(1)	4.920	95	125690	19.761
77) 1,2-Dichloropropane	(1)	5.139	63	130279	19.915
76) Methylcyclohexane	(1)	5.126	83	187867	16.266
80) Methyl Methacrylate	(1)	5.291	69	93313	17.688
78) Dibromomethane	(1)	5.260	93	80269	19.845
79) 1,4-Dioxane	(4)	5.285	88	29794	363.098
83) Bromodichloromethane	(1)	5.431	83	156919	20.541
85) 2-Nitropropane	(1)	5.662	41	37561	19.337
86) 2-Chloroethyl Vinyl Ether	(1)	5.765	63	76463	16.787
87) cis-1,3-Dichloropropene	(1)	5.905	75	186213	18.838
89) 4-Methyl-2-Pentanone	(1)	6.088	43	846296	89.261
94) Toluene	(2)	6.264	92	314480	20.515
95) trans-1,3-Dichloropropene	(2)	6.513	75	175711	19.356
96) Ethyl Methacrylate	(2)	6.647	69	161842	18.033
97) 1,1,2-Trichloroethane	(2)	6.702	97	112890	20.520
98) Tetrachloroethene	(2)	6.860	166	145558	18.879
99) 1,3-Dichloropropane	(2)	6.885	76	194712	20.232
101) 2-Hexanone	(2)	7.006	43	647654	98.369
102) Dibromochloromethane	(2)	7.128	129	125619	21.104
104) 1,2-Dibromoethane	(2)	7.237	107	118803	20.010
106) *Chlorobenzene-d5	(2)	7.724	117	866594	50.000

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10105.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 16:04 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 16:42 maz02012

Sample Name: LCSY40 Lab Sample ID: LCSY40

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
107) Chlorobenzene	(2)	7.748	112	352826	20.147
108) 1,1,1,2-Tetrachloroethane	(2)	7.834	131	124946	20.991
109) Ethylbenzene	(2)	7.870	91	583994	19.729
110) m+p-Xylene	(2)	7.980	106	479174	39.881
112) Xylene (Total)	(2)		106	709699	59.408
113) o-Xylene	(2)	8.332	106	230525	19.527
114) Styrene	(2)	8.345	104	361262	19.418
115) Bromoform	(2)	8.485	173	88006	20.002
116) Isopropylbenzene	(2)	8.655	105	568183	18.878
118) Cyclohexanone	(4)	8.710	55	104230M	384.642
122) 1,1,2,2-Tetrachloroethane	(3)	8.898	83	179122	20.198
124) trans-1,4-Dichloro-2-Butene	(3)	8.941	53	259189	89.698
121) Bromobenzene	(3)	8.880	156	165862	19.698
123) 1,2,3-Trichloropropane	(3)	8.923	110	54626	19.280
125) n-Propylbenzene	(3)	8.989	91	736742	19.808
126) 2-Chlorotoluene	(3)	9.044	126	150931	19.213
127) 1,3,5-Trimethylbenzene	(3)	9.129	105	533499	19.387
128) 4-Chlorotoluene	(3)	9.129	126	157866	19.605
130) tert-Butylbenzene	(3)	9.379	134	116576	17.916
131) Pentachloroethane	(3)	9.385	167	104942	22.209
132) 1,2,4-Trimethylbenzene	(3)	9.415	105	552171	19.483
133) sec-Butylbenzene	(3)	9.543	105	636742	18.225
135) p-Isopropyltoluene	(3)	9.653	119	578666	18.270
134) 1,3-Dichlorobenzene	(3)	9.610	146	318594	19.326
136) *1,4-Dichlorobenzene-d4	(3)	9.659	152	561910	50.000
138) 1,4-Dichlorobenzene	(3)	9.677	146	341632	19.906
139) 1,2,3-Trimethylbenzene	(3)	9.726	105	577573	19.781
141) Benzyl Chloride	(3)	9.780	91	342511	18.532
142) 1,3-Diethylbenzene	(3)	9.872	119	339645	18.269
143) 1,4-Diethylbenzene	(3)	9.932	119	351943	18.730
145) n-Butylbenzene	(3)	9.945	92	287881	18.583
144) 1,2-Dichlorobenzene	(3)	9.945	146	321428	19.702
146) 1,2-Diethylbenzene	(3)	10.011	119	287415	18.490
148) 1,2-Dibromo-3-Chloropropane	(3)	10.486	75	31834	16.485

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem2/HP09355.i/09dec10b.b/yd10105.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 16:04 Analyst ID: NRR01826

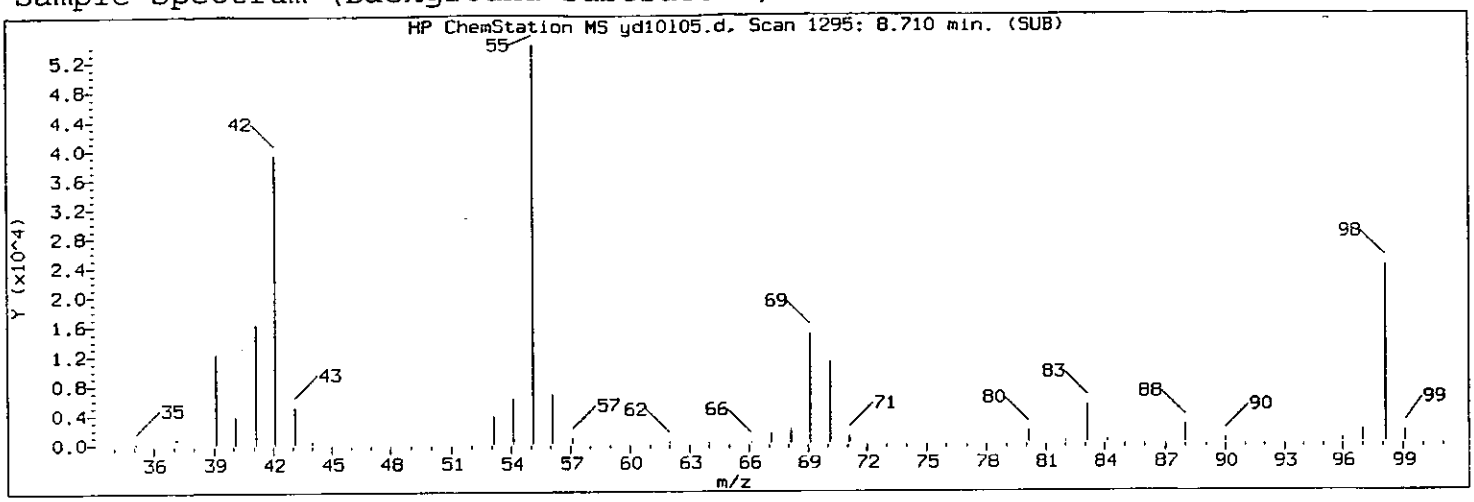
Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 28-SEP-2009 09:51
Date, time and analyst ID of latest file update: 10-Dec-2009 16:42 maz02012

Sample Name: LCSY40 Lab Sample ID: LCSY40

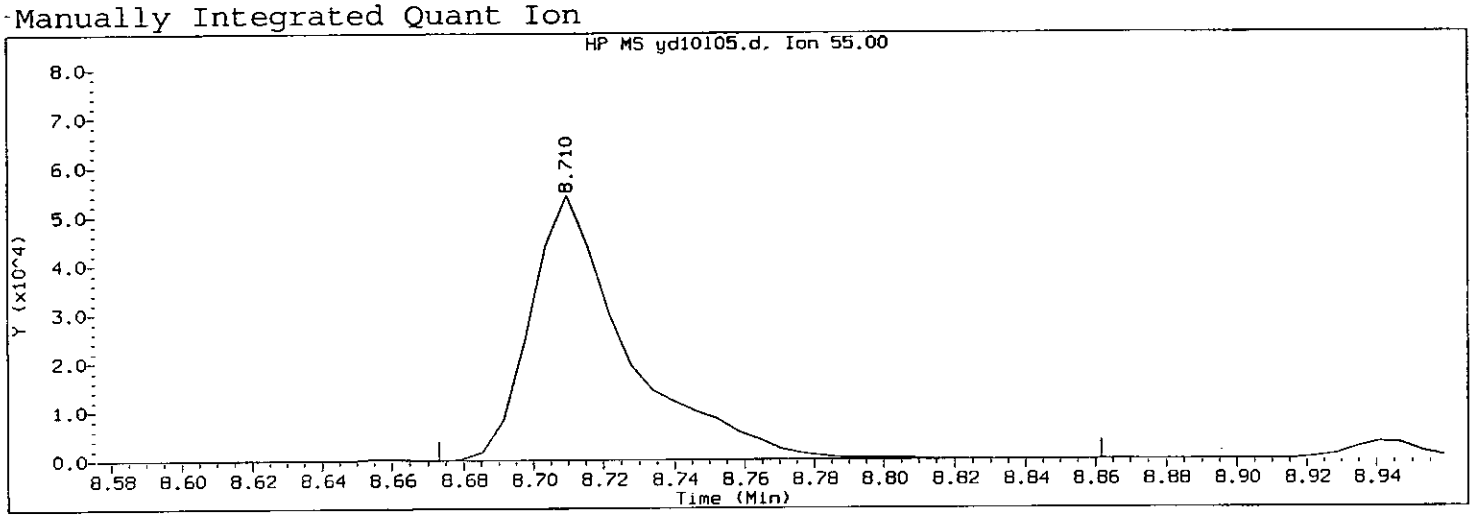
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
150) 1,2,4-Trichlorobenzene	(3)	11.046	180	204114	15.282
151) Hexachlorobutadiene	(3)	11.161	225	106793	16.788
152) Naphthalene	(3)	11.204	128	523987	14.736
153) 1,2,3-Trichlorobenzene	(3)	11.356	180	207340	16.214
154) 2-Methylnaphthalene	(3)	11.922	142	196914	6.401
52)$Dibromofluoromethane	(1)	3.898	113	284960	47.058
62)$1,2-Dichloroethane-d4	(1)	4.220	102	71089	45.750
93)$Toluene-d8	(2)	6.191	98	1160337	48.303
119)$4-Bromofluorobenzene	(2)	8.770	95	447450	49.427

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP09355.i/09dec10b.b/yd10105.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 16:04 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10b.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 10-DEC-2009 16:28
Date, time and analyst ID of latest file update: 10-Dec-2009 16:42 maz02012

Sample Name: LCSY40 Lab Sample ID: LCSY40

Compound Number : 118
Compound Name : Cyclohexanone
Scan Number : 1295
Retention Time (minutes): 8.710
Quant Ion : 55
Area (flag) : 104230 M
Concentration (ug/L) : 384.6420
Integration start scan : 1288 Integration stop scan: 1319
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

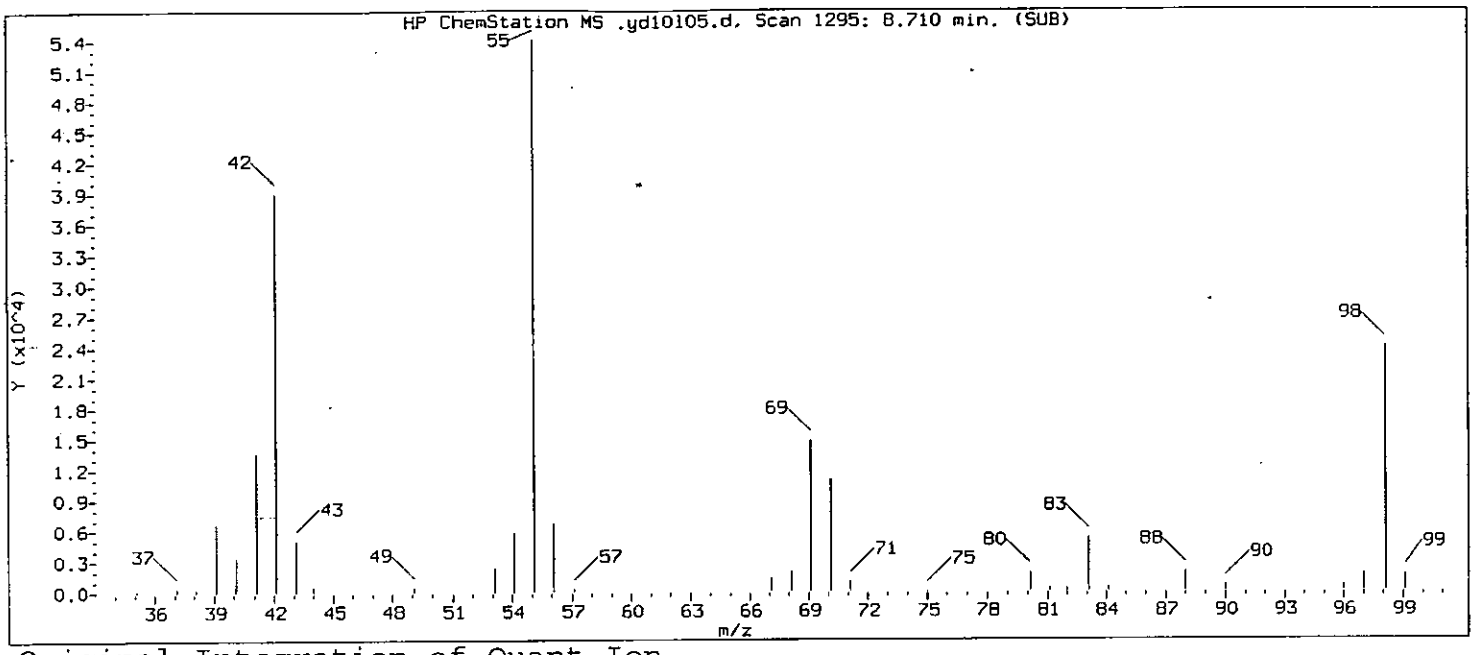
Analyst responsible for change: MA 12/10/09

GC/MS audit/management approval: 12-18-09

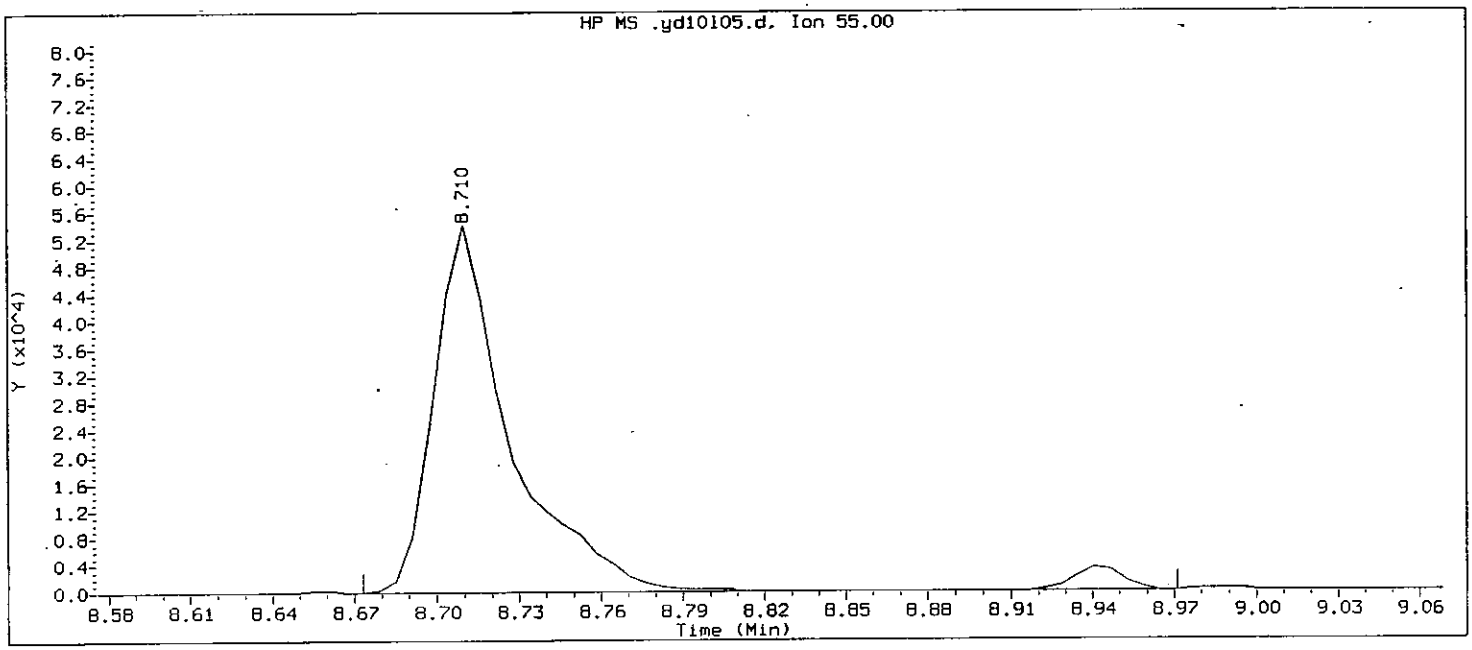
PTL84 0310

Manual Integration Report for data file /chem2/HP09355.i/09dec10b.b/yd10105.d, generated on 12/10/2009 at 16:42

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP09355.i/09dec10b.b/yd10105.d Instrument ID: HP09355.i
Injection date and time: 10-DEC-2009 16:04 Analyst ID: NRR01826

Method used: /chem2/HP09355.i/09dec10a.b/Y8260W.m Sublist used: 8260W-4
Calibration date and time: 10-DEC-2009 15:37
Date, time and analyst ID of latest file update: 10-Dec-2009 16:28 maz02012

Sample Name: LCSY40 Lab Sample ID: LCSY40

Compound Number : 118
Compound Name : Cyclohexanone
Scan Number : 1295
Retention Time (minutes): 8.710
Quant Ion : 55
Area : 108622
Concentration (ug/L) : 400.8528
Integration start scan : 1288 Integration stop scan: 1337
Y at integration start : 0 Y at integration end: 0

PTL04 0319

Original Integration Report for data file /chem2/HP09355.i/09dec10b.b/yd10105.d, generated on 12/10/2009 at 16:42

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

GC/MS Volatiles pH Log

Batch #: Y093442AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
5859196	<2	12/10/09	MA / 2012	
5859197	<2	12/10/09	MA / 2012	MS
5859198	<2	12/10/09	MA / 2012	MSD
5859183	<2	12/10/09	MA / 2012	
5859184	<2	12/10/09	MA / 2012	
5859185	<2	12/10/09	MA / 2012	
5859186	<2	12/10/09	MA / 2012	Primary ~~DL~~ ③ + HB1996 12/11/0
5859187	<2	12/10/09	MA / 2012	
5859188	<2	12/10/09	MA / 2012	
5859189	<2	12/10/09	MA / 2012	
5859190	<2	12/10/09	MA / 2012	
5859191	<2	12/10/09	MA / 2012	
5859192	<2	12/10/09	MA / 2012	
5859193	<2	12/10/09	MA / 2012	
5859194	<2	12/10/09	MA / 2012	
5859199	<2	12/11/09	HB1996	
5859200	<2	12/11/09	HB1996	
5859201	<2	12/11/09	HB1996	
5857830	<2	12/10/2009	maz/2012	38B DL
5858912	③	12/10/2009	maz/2012	38B
5859186	<2	12/11/09	HB1996	38B NH ③
5859195	<2	12/11/09	HB1996	CMA 12/10/09

PTL04 8328

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09355 **HP #20**

** Shift #1 Analyst:_____** Shift #2 Analyst:_____** Shift #3 Analyst:__HB_____*

Comment Code:

R	= Reinjection necessary	X	= Sample sent to be reextracted
S	= Surrogate problem	I	= Internal Standard problem
NU	= Not used	F	= Further dilution required
MR	= Meets requirements	IUO	= Internal use only
Cz	= Confirms z, (z = S, I or X)	T	= Injected outside valid tune period

Other problems or comments are as follows:

_____

_____8260B WATERS LARGE ICAL_____

_____

_____

Data Directory Path is - C:\msdchem\1\09OCT19I\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
YC19X01.D	BLK	BLK	19 Oct 2009	22:24			NU
YC19X02.D	BLK	BLK	19 Oct 2009	22:45			NU
YC19T09.D	50NG BFB MAY27-09	50NH BFB MAY27-09	19 Oct 2009	23:13			MR
YC19I01.D	VSTD300	VSTD300	19 Oct 2009	23:36			MR
YC19I02.D	VSTD100	VSTD100	19 Oct 2009	23:57			NU
YC19I03.D	VSTD050	VSTD050	20 Oct 2009	00:17			MR
YC19I04.D	VSTD020	VSTD020	20 Oct 2009	00:38			MR
YC19I05.D	VSTD010	VSTD010	20 Oct 2009	00:59			MR
YC19I06.D	VSTD004	VSTD004	20 Oct 2009	01:20			MR
YC19M01.D	MDL001	MDL001	20 Oct 2009	01:42			MR
YC19I07.D	VSTD100	VSTD100	20 Oct 2009	02:15			MR
YC19X05.D	CLBLK	CLBLK	20 Oct 2009	02:57	SWITCH TO IS/SS		IUO
YC19M02.D	MDL002	MDL002	20 Oct 2009	03:18			MR
YC19V01.D	LCSYICV	LCSYICV	20 Oct 2009	03:39			MR

PTL84 8321

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09355 **HP #20**

** Shift #1 Analyst: NRR ** Shift #2 Analyst: MAZ ** Shift #3 Analyst: HB *

Comment Code:

R	= Reinjection necessary	X	= Sample sent to be reextracted
S	= Surrogate problem	I	= Internal Standard problem
NU	= Not used	F	= Further dilution required
MR	= Meets requirements	IUO	= Internal use only
Cz	= Confirms z, (z = S, I or X)	T	= Injected outside valid tune period

Other problems or comments are as follows:

*

* 8260B WATERS *

*

*

Data Directory Path is - C:\msdchem\1\09DEC10B\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
YD10T02.D	50NG BFB NOV24-09	50NG BFB	10 Dec 2009	15:01			MR
YD10C05.D	VSTD050	VSTD050	10 Dec 2009	15:22			MR
YD10B05.D	VBLKY40	VBLKY40	10 Dec 2009	15:43	Y093442AA		NU
YD10L05.D	LCSY40	LCSY40	10 Dec 2009	16:04	Y093442AA		MR
YD10B06.D	VBLKY40	VBLKY40	10 Dec 2009	16:25	Y093442AA		MR
YD10S30.D	PA19D	5859196	10 Dec 2009	17:05	Y093442AA		MR
YD10S31.D	PA19DMS	5859197	10 Dec 2009	17:26	Y093442AA		MR
YD10S32.D	PA19DMSD	5859198	10 Dec 2009	17:47	Y093442AA		MR
YD10S33.D	PATE1	5859183	10 Dec 2009	18:08	Y093442AA		MR
YD10S34.D	PATP7	5859184	10 Dec 2009	18:29	Y093442AA		MR
YD10S35.D	PAT7A	5859185	10 Dec 2009	18:50	Y093442AA		MR
YD10S36.D	PAT10	5859186	10 Dec 2009	19:11	Y093442AA		F
YD10S37.D	PATE2	5859187	10 Dec 2009	19:32	Y093442AA		MR
YD10S38.D	PAT15	5859188	10 Dec 2009	19:53	Y093442AA		MR
YD10S39.D	PATD1	5859189	10 Dec 2009	20:14	Y093442AA		MR
YD10S40.D	PAT16	5859190	10 Dec 2009	20:35	Y093442AA		MR
YD10S41.D	PAT17	5859191	10 Dec 2009	20:56	Y093442AA		MR
YD10S42.D	PAT18	5859192	10 Dec 2009	21:17	Y093442AA		MR
YD10S43.D	PATT-	5859193	10 Dec 2009	21:37	Y093442AA		MR
YD10S44.D	PA18D	5859194	10 Dec 2009	21:58	Y093442AA		MR
YD10S45.D	PA19S	5859195	10 Dec 2009	22:18	Y093442AA		MR
YD10S46.D	PATD2	5859199	10 Dec 2009	22:39	Y093442AA		MR
YD10S47.D	PA20S	5859200	10 Dec 2009	23:00	Y093442AA		MR
YD10S48.D	PA20D	5859201	10 Dec 2009	23:21	Y093442AA		MR
YD10S49.D	TTC04DL	5857830	10 Dec 2009	23:42	Y093442AA	100	MR
YD10S50.D	SEMB3	5858912	11 Dec 2009	00:03	Y093442AA	5	MR
YD10S51.D	PAT10DL	5859186	11 Dec 2009	00:24	Y093442AA	20	NU
YD10S52.D	PAT10DL	5859186	11 Dec 2009	00:58	Y093442AA	10	MR

PTL84 83-2

YES NO N/A

I. PACKAGE COMPLETENESS AND DELIVERABLES

CASE NUMBER: PLM01 LAB: Lancaster Laboratories

SITE NAME: GE - Patillas Puerto Rico

1.0 Data Completeness and Deliverables

1.1 Has all data been submitted in CLP deliverable format or CLP Forms Equivalent? [X] ___ ___

ACTION: If not, note the effect on review of the data in the Data Assessment narrative.

2.0 Cover Letter, SDG Narrative

2.1 Is a laboratory narrative, and/or cover letter signed release present? [X] ___ ___

2.2 Are case number and SDG number(s) contained in the narrative or cover letter? [X] ___ ___

ACTION: If not, note the effect on review of the data in the Data Assessment narrative.

II. VOLATILE ANALYSES

1.0 Traffic Reports and Laboratory Narrative

1.1 Are the Traffic Reports, and/or Chain of Custodies from the field samplers present for all samples sign release present? [X] ___ ___

ACTION: If no, contact the laboratory/sampling team for replacement of missing or illegible copies.

1.2 Is a sampling trip report present (if required)? [X] ___ ___

1.3 Sample Conditions/Problems

YES NO N/A

1.3.1 Do the Traffic Reports, Chain of Custodies, or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special notations affecting the quality of the data? ___ [X] ___

ACTION: If all the VOA vials for a sample have air bubbles or the VOA vial analyzed had air bubbles, flag all positive results "J" and all non-detects "R".

ACTION: If any sample analyzed as a soil, other than TCLP, contains 50%-90% water, all data should be flagged as estimated ("J"). If a soil sample, other than TCLP, contains more than 90% water, flag all positive results “J” and all non-detects “R”.

ACTION: If samples were not iced or if the ice was melted upon receipt at the laboratory and the temperature of the cooler was elevated (>10°C), flag all positive results "J" and all non-detects non"UJ".

2.0 Holding Times

2.1 Have any volatile holding times, determined from date of collection to date of analysis, been exceeded? ___ [X] ___

The maximum holding time for aqueous samples is 14 days.

The maximum holding time for soils non aqueous samples is 14 days.

NOTE: If unpreserved, aqueous samples maintained at 4°C for aromatic hydrocarbons analysis must be analyzed within 7 days. If preserved with HCL acid to a pH<2 and stored at 4°C,then aqueous samples must be analyzed within 14 days from time of collection. For non-aqueous samples for volatile components that are frozen (less than 7°C) or are properly cooled (4°C ± 2°C) and perserved with $NaHSO_4$, the maximum holding time is 14 days from sample collection. If

YES NO N/A

uncertain about preservation, contact the laboratory /sampling team to determine whether or not samples were preserved.

ACTION: Qualify sample results according to Table 1:

Table 1. Holding Time Actions for Trace Volatile Analysis

Matrix	Preserved	Criteria	Action	
			Detected Associated Compounds	Non-Detected Associated Compounds
Aqueous	No	≤7 days	No qualifications	
	No	> 7 days	J	R
	Yes	≤14 days	No qualifications	
	Yes	> 14 days	J	R
Non Aqueous	No	≤ 14 days	J	R
	Yes	≤ 14 days	No qualifications	
	Yes/No	> 14 days	J	R

3.0 Surrogate Recovery (CLP Form II Equivalent)

3.1 Have the volatile surrogate recoveries been listed on Surrogate Recovery forms for each of the following matrices:

a. Water [X] ___ ___

b. Soil [ ] ___ X

3.2 If so, are all the samples listed on the appropriate Surrogate Recovery forms for each matrix:

a. Water [X] ___ ___

b. Soil [ ] ___ X

ACTION: If large errors exist, deliverables are unavailable or information is missing, document the effect(s) in Data

YES NO N/A

Assessments and contact the laboratory/project officer/appropriate official for an explanation /resubmittal,make any necessary corrections and document effect in the Data Assessment.

3.3 Were the surrogate recovery limits followed per Table 2. If Table 2 criteria were not followed, the laboratory may use in-house performance criteria (per SW-846, Method 8000C, sectiom 9.7). Other compounds may be used as surrogates, depending upon the analysis requirements. [X] ___ ___

Table 2. Surrogate Spike Recovery Limits for Water and Soil/Sediments

DMC	IN-HOUSE Recovery Limits (%)Water	Recovery Limits Soil/Sediment
4-Bromofluorobenzene	78-113% ~~80-120~~	70-130
Dibromofluoromethane	80-116% ~~80-120~~	70-130
Toluene-d_8	80-113% ~~80-120~~	70-130
Dichloroethane-d_4	77-113% ~~80-120~~	70-130

Note: Use above table if laboratory did not provide in house recovery criteria.

Note: Other compounds may be used as surrogated depending upon the analysis requirements.

3.4 Were outliers marked correctly with an asterisk? [X] ___ ___

ACTION: Circle all outliers with a red pencil.

3.5 Were one or more volatile surrogate recoveries out of specification for any sample or method blank. Table 2. [ ] X ___

If yes, were samples reanalyzed? [ ] ___ X

Were method blanks reanalyzed? [ ] ___ X

YES NO N/A

ACTION: If all surrogate recoveries are > 10% but 1 or more compounds do not meet method specifications:

1. Flag all positive results as estimated ("J").
2. Flag all non-detects as estimated detection limits ("UJ") when recoveries are less than the lower acceptance limit.
3. If recoveries are greater than the upper acceptance limit, do not qualify non-detects, but qualify positive results as estimated “J”.

If any surrogate has a recovery of < 10%:

1. Positive results are qualified with ("J").
2. Non-detects for that should be qualified as unusable ("R").

NOTE: Professional judgement should be used to qualify data that have method blank surrogate recoveries out of specification in both original and reanalyses. The basic concern is whether the blank problems represent an isolated problem with the blank alone or whether there is a fundamental problem with the analytical process. If one or more samples in the batch show acceptable surrogate recoveries, the reviewer may choose the blank problem to be an isolated occurrence.

3.6 Are there any transcription/calculation errors between raw data and reported data? [ ] X ___

ACTION: If large errors exist, take action as specified in section 3.2 above.

4.0 <u>Laboratory Control Sample(Form III/Equivalent)</u>

4.1 Is the LCS prepared, extracted, analyzed, and reported once for every 20 field samples of a similar matrix, per SDG. [X] ___ ___

YES NO N/A

Note: LCS consists of an aliquot of a clean (control) matrix similar to the sample matrix and of the same weight or volume.

ACTION: If any Laboratory Control Sample data are missing, call the lab for explanation /resubmittals. Make note in the data assessment.

4.2 Were the Laboratory Control Samples analyzed at the required frequency for each of the following matrices:

		YES	NO	N/A
A.	Water	[X]	___	___
B.	Soil	[ ]	___	X
C.	Med Soil	[ ]	___	X

Note: The LCS is spiked with the same analytes at the same concentrations as the matrix spike (SW-846 8000C, Section 9.5). If different make note in data assessment. Matrix/LCS spiking standards should be prepared from volatile organic compounds which are representative of the compounds being investigating. At a minimum, the matrix spike should include 1,1-dichloroethene, trichloroethene, chlorobenzene, toluene, and benzene.

ACTION: If any MS/MD, MS/MSD or replicate data are missing, take the action specified in 3.2 above.

4.3 Have in house LCS recovery limits been developed (Method 8000C, Sect 9.7). [X] ___ ___

4.4 If in house limits are not developed, are LCS acceptance recovery limits between 70 - 130% (Method 8000c Sect 9.5)? [ ] ___ X

4.5 Were one or more of the volatile LCS recoveries outside the in house laboratory recovery criteria for spiked analytes? If in house limits are not present use 70 - 130% recovery limits. [ ] X ___

YES NO N/A

Table 3. LCS Actions for Volatile Analysis

Criteria	Action	
	Detected Spiked Compounds	**Non-Detected Spiked Compounds**
%R > Upper Acceptance Limit	J	No Qualifiers
%R < Lower Acceptance Limit	J	UJ
Lower Acceptance Limit ≤ %R	No Qualifications	

5.0 Matrix Spikes(Form III or equivalent)

5.1 Are all data for matrix spike and matrix duplicate or matrix spike duplicate (MS/MD or MS/MSD) present and complete for each matrix? [X] ___ ___

NOTE: The laboratory should use one matrix spike and a duplicate analysis of an unspiked field sample if target analytes are expected in the sample. If the sample is not expected to contain target analytes, a MS/MSD should be analyzed (SW-846, Method 8260B, Sect 8.4.2).

5.2 Have MS/MD or MS/MSD results been summarized on modified CLP Form III? [X] ___ ___

ACTION: If any data are missing take action as specified in section 3.2 above.

5.3 Were matrix spikes analyzed at the required frequency for each of the following matrices? (One MS/MD, MS/MSD or laboratory replicate must be performed for every 20 samples

YES NO N/A

of similar matrix or concentration level. Laboratories analyzing one to ten samples per month are required to analyze at least one MS per month [page 8000C, section 9.5.])

a. Water [X] ___ ___

b. Waste [ ] ___ X

c. Soil/Solid [ ] ___ X

Note: The LCS is spiked with the same analytes at the same concentrations as the matrix spike (SW-846 8000C, Section 9.5). If different make note in data assessment. Matrix/LCS spiking standards should be prepared from volatile organic compounds which are representative of the compounds being investigating. At a minimum, the matrix spike should include 1,1-dichloroethene, trichloroethene, chlorobenzene, toluene, and benzene. The concentration of the LCS should be determined as described SW-Method 8000C Section 9.5.

ACTION: If any MS/MD, MS/MSD or replicate data are missing, take the action specified in 3.2 above.

5.4 Have in house MS recovery limits been developed (Method 8000C, Sect 9.7)for each matrix. [X] ___ ___

5.5 Were one or more of the volatile MS/MSD recoveries outside of the in-house laboratory recovery criteria for spiked analytes? If none are present, then use 70-130% recovery as per SW-846, 8000C, Sect. 9.5.4. [X] ___ ___

ACTION: Circle all outliers with a red pencil.

NOTE: If any individual % recovery in the MS (or MSD) falls outside the designated range for recovery the reviewer should determine if there is a matrix effect. A matrix effect is indicated if the LCS data are within limits but the MS data exceeds the limits.

YES NO N/A

NOTE: No qualification of data is necessary on MS and MSD data alone. However, using informed professional judgement, the data reviewer may use MS and MSD resuts in conjunction with other QC criteria to determine the need for some qualificatios.

Note: The data reviewer should first try to determine to what extent the results of the MS and MSD affect the associated data. This determination should be made with regard to he MS and MSD sample itself, as welll as specific analytes for all samples associated with the MS and MSD.

Note: In those instances where it can be determned that the results of the MS and MSD affect only the sample spiked, limit qualification to this sample only. However, it may be determined through the MS and MSD results that a laboratory is having a systematic problem in the analysis of one or more analytes that affect all associated samples, and the reviewer must use professional judgement to qualify the data from all associated samples.

Note: The reviewer must use professional judgement to determine the need for qualification of non-spiked compounds.

ACTION: Follow criteria in Table 4 when professional judgement deems qualification of sample.

Table 4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Actions for Volatile Analysis

Criteria	**Action**	
	Detected Spiked Compounds	**Non-Detected Spiked Compounds**
%R > Upper Acceptance Limit	J	No Qualifiers
%R < Lower Acceptance Limit	J	UJ
Lower Acceptance Limit ≤ %R	No Qualifications	

	YES	NO	N/A

6.0 Blank (CLP Form IV Equivalent)

6.1 Is the Method Blank Summary form present?	[X]	___	___
6.2 Frequency of Analysis: Has a method blank been analyzed for every 20 (or less) samples of similar matrix or concentration or each extraction batch?	[X]	___	___
6.3 Has a method blank been analyzed for each GC/MS system used ?	[X]	___	___

ACTION: If any blank data are missing, take action as specified above (section 3.2). If blank data is not available, reject (R) all associated positive data. However, using professional judgement, the data reviewer may substitute field blank data for missing method blank data.

6.4 Chromatography: review the blank raw data - chromatograms, quant reports or data system printouts. Is the chromatographic performance (baseline stability) for each instrument acceptable for volatile organic compounds?	[X]	___	___

7.0 Contamination

NOTE: "Water blanks", "drill blanks" and "distilled water blanks" are validated like any other sample and are not used to qualify the data. Do not confuse them with the other QC blanks discussed below.

7.1 Do any method/instrument/reagent blanks have positive results for target analytes and/or TICs? When applied as described below, the contaminant concentration in these blanks are multiplied by the sample dilution factor and corrected for percent moisture where necessary.	[ ]	X	___

	YES	NO	N/A
7.2 Do any field/rinse blanks have positive volatile organic compound results?	X	[ ]	

ACTION: Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.)

NOTE: All field blank results associated to a particular group of samples (may exceed one per case or one per day) may be used to qualify data. Blanks may not be qualified because of contamination in another blank. Field blanks must be qualified forsurrogate, or calibration QC problems.

ACTION: Follow the directions in Table 5 below to qualify sample results due to contamination. Use the largest value from all the associated blanks.

Table 5. Volatile Organic Analysis Blank Contamination Criteria

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, Field, Trip, Instrument**	Detects	Not detected	No qualification
	< CRQL*	< CRQL	Report CRQL value with a U
		≥ CRQL	Use professional judgement
	> CRQL*	< CRQL	Report CRQL value with a U
		≥ CRQL and < blank contamination	Report the concentration for the sample with a U, or quanity the data as unusable R
		≥ CRQL and ≥ blank contamination	Use professional judgement
	= CRQL*	< CRQL	Report CRQL value with a U
		≥ CRQL	Use professional judgement
	Gross contam-ination	Detects	Qualify results as unusable R

* 2x the CRQL for methylene chloride, 2-butanone, and acetone

** Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

NOTE: If gross blank contamination exists(e.g., saturated peaks, “hump-o-grams,” “junk” peaks), all affected positive compounds in the associated samples should be qualified as unusable “R”, due to interference. Non-detected volatile organic target compounds do not require qualification unless the contamination is so high that it interferes with the analyses of non-detected compounds.

	YES	NO	N/A
7.3 Are there field/rinse/equipment blanks associated with every sample?	[X]	___	___

ACTION: For low level samples, note in data assessment that there is no associated field/rinse/equipment blank. Exception: samples taken from a drinking water tap do not have associated field blanks.

8.0 GC/MS Apparatus and Materials

8.1 Did the lab use the proper gas chromatographic column(s) for analysis of volatiles by Method 8260B? Check raw data, instrument logs or contact the lab to determine what type of column(s) was (were) used.	[X]	___	___

NOTE: For the analysis of volatiles, the method requires requires the use of 60 m. x 0.75 mm capillary column, coated with VOCOL(Supelco) or equivalent column. (see SW-846, page 8260B-7, section 4.9.2)

ACTION: If the specified column, or equivalent, was not used, document the effects in the Data Assessment. Use professional judgement to determine the acceptability of the data.

9.0 GC/MS Instrument Performance Check (CLP Form V Equivalent)

9.1 Are the GC/MS Instrument Performance Check forms present for Bromofluorobenzene (BFB), and do these forms list the associated samples with date/time analyzed?	[X]	___	___
9.2 Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	[X]	___	___

9.3 Has an instrument performance check solution (BFB)

	YES	NO	N/A
been analyzed for every twelve hours of sample analysis per instrument?(see Table 4, SW-846, page 8260B-36)	[X]	___	___

ACTION: List date, time, instrument ID, and sample analyses for which no associated GC/MS GC/MS tuning data are available.

ACTION: If the laboratory/project officer cannot provide missing data, reject (“R”) all data generated outside an acceptable twelve hour calibration interval.

ACTION: If mass assignment is in error, flag all associated sample data as unusable, “R”.

9.4 Have the ion abundances been normalized to m/z 95?	[X]	___	___
9.5 Have the ion abundance criteria been met for each instrument used?	[X]	___	___

ACTION: List all data which do not meet ion abundance criteria (attach a separate sheet).

ACTION: If ion abundance criteria are not met, take action as specified in section 3.2.

9.6 Are there any transcription/calculation errors between mass lists and reported values? (Check at least two values but if errors are found, check more.)	___	[X]	___
9.7 Have the appropriate number of significant figures (two) been reported?	[X]	___	___

ACTION: If large errors exist, take action as specified in section 3.2.

9.8 Are the spectra of the mass calibration compounds acceptable.	[X]	___	___

ACTION: Use professional judgement to determine wheather associated data should be accepted, qualified, or rejected.

	YES	NO	N/A

10.0 Target Analytes (CLP Form I Equivalent)

10.1 Are the Organic Analysis reporting forms present with required header information on each page, for each of the following:

a.	Samples and/or fractions as appropriate	[X]	___	___
b.	Matrix spikes and matrix spike duplicates	[X]	___	___
c.	Blanks	[X]	___	___
d.	Laboratory Control Samples	[X]	___	___

10.2 Are the reconstructed Ion Chromatograms, mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?

a.	Samples and/or fractions as appropriate	[X]	___	___
b.	Matrix spikes and matrix spike duplicates (Mass spectra not required)	[X]	___	___
c.	Blanks	[ ]	___	___
d.	Laboratory Control Samples	[X]	___	___

ACTION: If any data are missing, take action specified in 3.2 above.

10.3 Is chromatographic performance acceptable with respect to:

Baseline stability?	[X]	___	___

	YES	NO	N/A
Resolution?	[X]	___	___
Peak shape?	[X]	___	___
Full-scale graph (attenuation)?	[X]	___	___

Other:_____

ACTION: Use professional judgement to determine the acceptability of the data.

10.4 Are the lab-generated standard mass spectra of identified volatile compounds present for each sample?	[X]	___	___

ACTION: If any mass spectra are missing, take action specified in 3.2 above. If the lab does not generate their own standard spectra, make a note in the Data Assessment. If spectra are missing, contact the lab.

10.5 Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	[X]	___	___
10.6 Are all ions present in the standard mass spectrum at a relative intensity greater than 10% (of the most abundant ion) also present in the sample mass spectrum?	[X]	___	___
10.7 Do the relative intensities of the characteristic ions in the sample agree within ± 30% of the corresponding relative intensities in the reference spectrum?	[X]	___	___

ACTION: Use professional judgement to determine acceptability of data. If it is determined that incorrect identifications were made, all such data should be rejected (“R”), flagged (“N") - Presumptive evidence of the presence of the compound) or changed to non detected (“U”) at the calculated detection limit. In order to be

YES NO N/A

positively identified, the data must comply with the criteria listed in 9.6, 9.7, and 9.8.

ACTION: When sample carry-over is a possibility, professional judgement should be used to determine if instrument cross-contamination has affected any positive compound identification.

11.0 Tentatively Identified Compounds (TIC) (CLP Form I/TIC Equivalent)

11.1 If Tentatively Identified Compound were required for this project, are all Tentatively Identified Compound reporting forms present; and do listed TICs include scan number or retention time, estimated concentration and a qualifier? [ ] ___ X

NOTE: Add "N" qualifier to all TICs which have CAS number, if missing.

NOTE: Have the project officer/appropriate official check the project plan to determine if lab was required to identify non-target analytes (SW-846, page 8260B-23, Sect. 7.6.2).

11.2 Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:

a. Samples and/or fractions as appropriate [ ] ___ X

b. Blanks [ ] ___ X

ACTION: If any TIC data are missing, take action specified in 3.2 above.

ACTION: Add "JN" qualifier only to analytes identified by a CAS#.

NOTE: If TICs are present in the associated blanks take action as specified in section 3.2 above.

YES NO N/A

11.3 Are any priority pollutants listed as TIC compounds (i.e., an BNA compound listed as a VOA TIC)? [ ] ___ X

ACTION: 1. Flag with "R" any target compound listed as a TIC.

2. Make sure all rejected compounds are properly reported if they are target compounds.

11.4 Are all ions present in the reference mass spectrum with a relative intensity greater than 10% (of the most abundant ion) also present in the sample mass spectrum? [ ] ___ X

11.5 Do TIC and "best match" standard relative ion intensities agree within ± 20%? [ ] ___ X

ACTION: Use professional judgement to determine acceptability of TIC identifications. If it is determined that an incorrect identification was made, change the identification to "unknown" or to some less specific identification (example: "C3 substituted benzene") as appropriate. Also, when a compound is not found in any blank, but is a suspected artifact of a common laboratory contaminant, the result should be qualified as unusable, "R". (Common lab contaminants: CO_2(M/E 44), Siloxanes (M/E 73), Hexane, Aldol Condensation Products, Solvent Preservatives, and related byproducts).

12.0 Compound Quantitation and Reported Detection Limits

12.1 Are there any transcription/calculation errors in organic analysis reporting form results? Check at least two positive values. Verify that the correct internal standard, quantitation ion, and average initial RRF/CF were used to calculate organic analysis reporting form result. Were any errors found? [X] ___ ___

NOTE: Structural isomers with similar mass spectra, but insufficient GC resolution (i.e. percent valley between the two peaks > 25%) should be

YES NO N/A

reported as isomeric pairs. The reviewer should check the raw data to ensure that all such isomers were included in the quantitation (i.e., add the areas of the two coeluting peaks to calculate the total concentration).

12.2 Are the method CRQL's adjusted to reflect sample dilutions and, for soils, sample moisture? [X] ___ ___

ACTION: If errors are large, take action as specified in section 3.2 above.

ACTION: When a sample is analyzed at more than one dilution, the lowest detection limits are used (unless a QC exceedance dictates the use of the higher detection limit from the diluted sample data). Replace concentrations that exceed the calibration range in the original analysis by crossing out the "E" and it's associated value on the original reporting form (if present) and substituting the data from the analysis of the diluted sample. Specify which organic analysis reporting form is to be used, then draw a red "X" across the entire page of all reporting forms that should not be used, including any in the summary package.

13.0 Standards Data (GC/MS)

13.1 Are the Reconstructed Ion Chromatograms, and data system printouts (Quant Reports) present for initial and continuing calibration? [X] ___ ___

ACTION: If any calibration standard data are missing, take action specified in section 3.2 above.

14.0 GC/MS Initial Calibration (CLP Form VI Equivalent)

YES NO N/A

14.1 Are the Initial Calibration reporting forms present and complete for the volatile fraction? [X] ___ ___

ACTION: If any calibration forms or standard raw data are missing, take action specified in section 3.2 above.

ACTION: If the percent relative standard deviation (% RSD) is > 20%, (8000C-39)qualify positive results for that analyte “J”. When % RSD > 90%,. Qualify all positive results for that analyte “J” and all non-detects results for that analyte “R”.

14.2 Are all average RRFs > 0.050? [X] ___ ___

NOTE: (Method Requirement) For SPCC compounds, the individual RRF values must be ≥ the values in the following list. If individual RRF values reported are below the listed values document in the Data Assessment.

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

ACTION: Circle all outliers with red pencil.

ACTION: For any target analyte with average RRF < 0.05, or for the requirements for the 5 compounds in 14.2 above, qualify all positive results for that analyte "J" and all non-detect results for that analyte "R".

14.3 Are response factors stable over the concentration range of the calibration. [X] ___ ___

NOTE: (Method Requirement) For the following CCC compounds, the %RSD values must be ≤ 30.0%. If %RSD values reported are > 30.0% document in the Data Assessment.

YES NO N/A

1,1-Dichloroethene
Chloroform
1,2-Dichloropropane
Toluene
Ethylbenzene
Vinyl chloride

ACTION: Circle all outliers with a red pencil.

ACTION: If the % RSD is > 20.0%, or > 30% for the 6 compounds in 14.3 above, qualify positive results for that analyte "J" and non-detects using professional judgement. When RSD > 90%, qualify all positive results for that analyte "J" and all non-detect results for that analyte "R".

NOTE: The above data qualification action applies regardless of method requirements.

NOTE: Analytes previously qualified "U" due to blank contamination are still considered as "hits" when qualifying for calibration criteria.

14.4 Was the % RSD determined using RRF or CF? [X] ___ ___

If no, what method was used to determine the linearity of the initial calibration? Document any effects to the case in the Data Assessment.

14.5 Are there any transcription/calculation errors in the reporting of RRF or % RSD? (Check at least two values but if errors are found, check more.) [ ] X ___

ACTION: Circle errors with a red pencil.

ACTION: If errors are large, take action as specified in section 3.2 above.

15.0 GC/MS Calibration Verification (CLP Form VII Equivalent)

	YES	NO	N/A
15.1 Are the Calibration Verification reporting forms present and complete for all compounds of interest?	[X]	___	___
15.2 Has a calibration verification standard been analyzed for every twelve hours of sample analysis per instrument?	[X]	___	___

ACTION: List below all sample analyses that were not within twelve hours of a calibration verification analysis for each instrument used.

_____

ACTION: If any forms are missing or no calibration verification standard has been analyzed twelve hours prior to sample analysis, take action as specified in section 3.2 above. If calibration verification data are not available, flag all associated sample data as unusable ("R").

	YES	NO	N/A
15.3 Was the % D determined from the calibration verification determined using RRF or CF?	[X]	___	___

If no, what method was used to determine the calibration verification? Document any effects to the case in the Data Assessment.

	YES	NO	N/A
15.4 Do any volatile compounds have a % D (difference or drift) between the initial and continuing RRF or CF which exceeds 20% (SW-846, page 8260B-19, section 7.4.5.2).	[X]	___	___

NOTE: (Method Requirement) For the following CCC compounds, the %D values must be ≤ 20.0%. If %D values reported are > 20.0% document in the Data Assessment.

(12/10/09) acetone = 21

1,1-Dichloroethene
Chloroform
1,2-Dichloropropane
Toluene
Ethylbenzene
Vinyl chloride

* Not COC and was not detected, therefore no further action.

YES NO N/A

ACTION: Circle all outliers with a red pencil.

ACTION: Qualify both positive results and non-detects for the outlier compound(s) as estimated, “J”. When %D is above 90%, qualify all positive results for that analyte "J" and all non-detect results for that analyte "R".

NOTE: The above data qualification action applies regardless of method requirements.

15.5 Do any volatile compounds have a RRF < 0.05? [ ] X ___

NOTE: (Method Requirement) For SPCC compounds, the individual RRF values must be ≥ the values in the following list for each calibration verification. If average RRF values reported are below the listed values document in the data assessment.

Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

ACTION: Circle all outliers with a red pencil.

ACTION: If RRF < 0.05, or < the the requirements for the 5 compounds is section 15.5 above, qualify all positive results for that analyte "J" and all non-detect results for that analyte "R".

NOTE: The above data qualification action applies regardless of method requirements.

16.0 Internal Standards (CLP Form VIII Equivalent)

16.1 Are the internal standard (IS) areas on the internal standard reporting forms of every sample and blank within the upper and lower limits (-50% to + 100%) for each initial mid-point calibration (SW-846, 8260B-20, Sect. 7.4.7)? [X] ___ ___

YES NO N/A

ACTION: If errors are large or information is missing, take action as specified in section 3.2 above.

ACTION: List each outlying internal standard below.

Sample ID	IS #	Area Lower Limit	Area Upper Limit
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(Attach additional sheets if necessary.)

ACTION:
1. If the internal standard area count is outside the upper or lower limit, flag with "J" all positive results quantitated with this internal standard.
2. Do not qualify non-detects when the associated IS are counts area > + 100%.
3. If the IS area is below the lower limit (< -50%), qualify all associated non-detects (U-values) "J".
4. If extremely low area counts are reported (< -25%) or if performance exhibits a major abrupt drop off, flag all associated non-detects as unusable “R” and positive results as estimated “J”.

16.2 Are the retention times of all internal standards within 30 seconds of the associated initial mid-point calibration standard (SW-846, 8260B-20, Sect. 7.4.6)? [X] ___ ___

ACTION: Professional judgement should be used to qualify data if the retention times differ by more than 30 seconds.

YES NO N/A

17.0 Field Duplicates

17.1 Were any field duplicates submitted for volatile analysis? [X] ___ ___

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between field duplicate results must be addressed in the Data Assessment. However, if large differences exist, take action specified in section 3.2 above.

EB-01	Chloroform 0.9J	
P-7	ND	
P-7A	ND	
P-10A	1 J	U

EB-02	Chloroform 0.8J	
P-15DD	ND	
DUP-01	ND	
P-16S	ND	
P17D	ND	
P18S	ND	
P-18D	0.9J	U
P-19S	ND	
P-19D	1 J	U
DUP-02	ND	
P-20S	ND	
P-20D	0.9J	U

Daliz Estades Santaliz

Licensed Chemist

To Whom It May Concern:

I, Daliz M. Estades Santaliz, in my capacity as Puerto Rico Certified Chemist, hereby certify the attached Analytical Results from Project Name GE Patillas, Puerto Rico, and Laboratory ID Numbers:

5859183	5859194
5859184	5859195
5859185	5859196
5859186	5859197
5859187	5859198
5859188	5859199
5859189	5859200
5859190	5859201
5859191	
5859192	
5859193	

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Analysis Report

Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL04

Report Date: 12/18/2009 19:39
Submit Date: 12/8/2009 9:25

Analysis Name	Units	5859183 EB-01 Gr Result	MDL	5859184 P-7 Grab Result	MDL	5859185 P-7A Gra Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	0.9 J	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	9	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	31	0.8	3 J	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5

PTL04 0010

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Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL04

Report Date: 12/18/2009 19:39
Submit Date: 12/8/2009 9:25

4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	5	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

		5859186		5859187		5859188	
Analysis Name	Units	P-10A Gr	MDL	EB-02 Gr	MDL	P-15DD G	MDL
		Result		Result		Result	
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	1 J	0.8	0.8 J	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1

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Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	21	1	N.D.	1	2 J	1
1,2-Dichloroethane	ug/l	2 J	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	900	8	N.D.	0.8	65	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	3 J	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5859189 DUP-01 G Result	MDL	5859190 P-16S Gr Result	MDL	5859191 P17D Gra Result	MDL

PTL04 8012

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Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1	2 J	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	91	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

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Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5859192 P18S Gra Result	MDL	5859193 TB-01 Wa Result	MDL	5859194 P-18D Gr Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	0.9 J	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

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Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	2 J	1	N.D.	1	2 J	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	30	0.8	N.D.	0.8	38	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	1 J	0.8	N.D.	0.8	1 J	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

		5859195		5859196		5859197	
Analysis Name	Units	P-19S Gr	MDL	P-19D Un	MDL	P-19D Ma	MDL
		Result		Result		Result	
Acetone	ug/l	N.D.	6	N.D.	6	130	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	21	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	20	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	21	1

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Bromodichloromethane	ug/l	N.D.	1	N.D.	1	21	1
Bromoform	ug/l	N.D.	1	N.D.	1	19	1
Bromomethane	ug/l	N.D.	1	N.D.	1	20	1
2-Butanone	ug/l	N.D.	3	N.D.	3	130	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	19	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	19	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	19	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	22	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	21	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	22	1
Chloroform	ug/l	N.D.	0.8	1 J	0.8	23	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	22	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	19	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	20	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	16	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	21	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	20	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	20	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	20	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	20	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	20	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	23	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1	21	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	21	1
1,1-Dichloroethene	ug/l	3 J	0.8	6	0.8	27	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	20	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	21	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	21	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	20	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	20	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	21	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	18	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	19	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	20	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	18	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	20	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	19	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	19	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	89	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	21	2
Naphthalene	ug/l	N.D.	1	N.D.	1	14	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	20	1
Styrene	ug/l	N.D.	1	N.D.	1	20	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	21	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	20	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	20	0.8

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Toluene	ug/l	N.D.	0.7	N.D.	0.7	21	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	16	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	15	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	22	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	21	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	21	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	23	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	19	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	20	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	20	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	20	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	41	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	20	0.8

Analysis Name	Units	5859198 P-19D Ma Result	MDL	5859199 DUP-02 G Result	MDL	5859200 P-20S Gr Result	MDL
Acetone	ug/l	120	6	N.D.	6	N.D.	6
Benzene	ug/l	20	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	19	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	20	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	20	1	N.D.	1	N.D.	1
Bromoform	ug/l	19	1	N.D.	1	N.D.	1
Bromomethane	ug/l	19	1	N.D.	1	N.D.	1
2-Butanone	ug/l	120	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	19	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	18	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	18	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	21	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	22	1	N.D.	1	N.D.	1
Chloroform	ug/l	21	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	21	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	19	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	19	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	16	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	20	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	19	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	19	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	19	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	19	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	19	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	22	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	20	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	20	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	26	0.8	3 J	0.8	5 J	0.8

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cis-1,2-Dichloroethene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	19	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	19	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	20	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	20	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	17	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	18	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	19	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	18	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	19	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	18	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	18	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	86	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	20	2	N.D.	2	N.D.	2
Naphthalene	ug/l	14	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	20	1	N.D.	1	N.D.	1
Styrene	ug/l	19	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	20	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	19	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	19	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	20	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	16	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	15	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	22	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	20	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	22	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	18	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	19	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	19	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	20	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	40	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	19	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5859201 P-20D Gr Result	MDL
Acetone	ug/l	N.D.	6
Benzene	ug/l	N.D.	0.5
Bromobenzene	ug/l	N.D.	1
Bromochloromethane	ug/l	N.D.	1
Bromodichloromethane	ug/l	N.D.	1
Bromoform	ug/l	N.D.	1
Bromomethane	ug/l	N.D.	1
2-Butanone	ug/l	N.D.	3

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n-Butylbenzene	ug/l	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8
Chloroethane	ug/l	N.D.	1
Chloroform	ug/l	0.9 J	0.8
Chloromethane	ug/l	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2
Dibromochloromethane	ug/l	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1
Dibromomethane	ug/l	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1
1,1-Dichloroethene	ug/l	22	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2
Isopropylbenzene	ug/l	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3
Methylene Chloride	ug/l	N.D.	2
Naphthalene	ug/l	N.D.	1
n-Propylbenzene	ug/l	N.D.	1
Styrene	ug/l	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8
Toluene	ug/l	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8

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1,1,2-Trichloroethane	ug/l	N.D.	0.8
Trichloroethene	ug/l	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1
Vinyl Chloride	ug/l	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8

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APPENDIX C

PROGRESS REPORT

Progress Report for this reporting period (January 6 through January 29, 2010). The Progress Report was prepared in accordance with Section V.C. of the facility's Administrative Order on Consent (Order) dated March 29, 1988, and approved revisions (January 26, 2010).

i. Description and estimate of the percentage of the project completed

The project is approximately 70 percent complete. The following table outlines the status of the major project milestones.

Activity	Status
Preliminary Site Investigation	Complete (1986)
Closure of Drying Beds	Complete (1987); Approved (2005)
Interim Corrective Measures (French Sump Removal)	Complete (1990); Approved (1991)
RCRA Facility Investigation	Complete (1992); Approved (1992)
Corrective Measures Study	Complete (1993); Not Approved (1993)
Human Exposures Under Control (CA725)	Complete (2004)
Supplemental RCRA Facility Investigation	Complete (2005); Not Approved (2005)
Groundwater Contamination Under Control (CA750)	Pending
Corrective Measures Implementation	Pending
Site Closure	Pending

Following the closure of the Drying Beds and the French sump, GE performed a RCRA Facility Investigation (RFI) in 1992. The RFI was subsequently approved by U.S. EPA, and GE proceeded to perform a Corrective Measures Study (CMS) to address groundwater impacted by volatile organic compounds (VOCs) originating from the French sump. The results of the CMS indicated that monitored natural attenuation was an acceptable corrective measure for addressing impacted groundwater. In 1993, GE began monitoring groundwater as a self-implementation.

In 2000, U.S. EPA expressed concern that the CMS could not be approved due to insufficient groundwater characterization (e.g., the downgradient edge of the impacted groundwater had not been defined). In 2003, U.S. EPA and GE agreed that further investigation would be performed.

In 2005, GE performed a Supplemental RFI to further characterize the extent of impacted groundwater and to further evaluate the use of monitored natural attenuation as a corrective measure. U.S. EPA did not approve the Supplemental RFI as it felt further delineation was required. U.S. EPA and GE then agreed that GE would perform additional offsite groundwater sampling to

address the data gaps identified in the Supplemental RFI. Subsequent to this agreement, GE was unable to secure site access from property owner(s) located southwest of the Site. Consequently, GE was unable to perform the requested groundwater sampling. A *Groundwater Modeling Work Plan* (2007) was then developed and submitted to U.S. EPA with the intent of delineating the extent of impacted groundwater by using a computer model. The information obtained from executing this work plan would also be used to document the remaining Environmental Indicator Determination (*Groundwater Contamination Under Control - CA750)*, which is currently pending.

GE received approval from U.S. EPA to execute the *Groundwater Modeling Work Plan* in May 2009. GE initiated this work in June 2009 and submitted the draft results to EPA and EQB in September 2009. GE plans to monitor groundwater for one year. To date, three of the four planned sampling events have been completed. The results of two of these events (June and September 2009) have been submitted to U.S. EPA. The results of the third event (December 2009) are enclosed. After one year of sampling, GE will discuss the approach for future monitoring with U.S. EPA. After completing the groundwater delineation, GE plans to address the U.S. EPA's comments on the CMS and Supplemental RFI. Following approval of these documents, GE will implement the final corrective measures for the Site with the intent of obtaining site closure.

ii. Summaries of all findings

Sludge drying beds were removed from the Site in 1989. To evaluate possible impacts to groundwater, monitoring was performed for three years following closure activities. Based on three years of post-closure groundwater monitoring, impacts were not identified, and U.S. EPA provided an Approval of Clean Closure for the sludge drying beds.

A French sump was formerly located onsite and used for waste disposal from 1977 until 1980. Wastes included treated wastewater sludge, waste oils, and spent solvents. In 1990, the French sump was removed as part of the Interim Measures. Completion of the Interim Corrective Measures was approved by U.S. EPA in 1991. Although the French sump was removed in 1990, residual groundwater impacts have been noted during the RFI (1992) and the Supplemental RFI (2005). The constituents of concern associated with the former French Sump include VOCs. The primary VOCs of concern include 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-dichloroethene (1,1-DCE). The extent of groundwater impacted by 1,1,1-TCA does not extend off of GE's property. Historical sample results for 1,1,1-TCA range from non-detect to 586 micrograms per liter (µg/L). The extent of groundwater impacted by 1,1-DCE extends off-site (south-southwest) towards the Rio Chico and Rio Grande. Historical sample results for 1,1-DCE range from non-detect to 1,230 µg/L. The highest offsite sample result for 1,1-DCE is 110 µg/L (located approximately 250 feet southwest of the Site). VOC concentrations in groundwater samples collected near the former French sump have decreased.

The results from the September 2009 sampling event indicate that the highest VOC concentrations (primarily 1,1-DCA and 1,1-DCE) were detected in the sample collected from well P-10A, which is located onsite and downgradient of

the former French sump. The 1,1-DCE concentration for the farthest downgradient monitoring well sampled (MW-20D, approximately 1,300 feet southwest of the former French sump) was 28 µg/L. The extent of 1,1-DCE in the shallow zone is MW-20S. For the deep zone, the extent is not defined by the downgradient monitoring wells, but based on recent groundwater modeling is bound by the Rio Grande.

The most recent results from the December 2009 sampling event are enclosed and discussed in Section 4.0.

iii. Summaries of all changes made in the project during the reporting period

Progress reports are now submitted on a quarterly basis and included with Groundwater Monitoring Reports (as appropriate).

The draft *Groundwater Modeling Report* was submitted to EPA and EQB on September 4, 2009. Comments regarding the results presented in this draft report have not been received from either agency.

The *Groundwater Monitoring Report* for September 2009 was submitted to USEPA and EQB on November 30, 2009. Comments regarding the results presented in this report have not been received from either agency.

iv. Summaries of all contacts with representatives of local community, public interest groups or State government during the reporting period

None.

v. Summaries of all problems or potential problems encountered during the reporting period

None.

vi. Actions being taken to rectify problems

None.

vii. Changes in personnel during the reporting period

None.

viii. Projected work for the next reporting period

During the next reporting period (January to March 2010), minor repairs will be made to the protective casings for the monitoring wells associated with this Site. The next groundwater sampling event is planned for March 2010.

ix. Copies of daily reports, inspections reports, laboratory/monitoring data, etc.

Field data sheets and laboratory data for the December 2009 sampling event are enclosed.