MWH

BUILDING A BETTER WORLD

GROUNDWATER MONITORING REPORT
AUGUST 2010

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

Prepared For:

General Electric Energy

Prepared By:

MWH Americas, Inc.

November 2010

GROUNDWATER MONITORING REPORT
AUGUST 2010
GENERAL ELECTRIC PUERTO RICO INVESTMENT, INC.
PATILLAS, PUERTO RICO

FOR

General Electric Energy

Schenectady, New York

United States

Prepared By _____ November 22, 2010

Bradly Toth
Lead Scientist
MWH Americas, Inc.

Date

Reviewed By _____ November 22, 2010

Kim Kesler-Arnold
Principal Project Manager
MWH Americas, Inc.

Date

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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 States Environmental Protection Agency

1.0 INTRODUCTION

This Groundwater Monitoring Report describes the activities performed in August 2010 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.
- Collected 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 (August 2010) is the first event subsequent to the previously completed events associated with the work plan. The previous events were performed in June, September, and December 2009 and March 2010. The need for future actions and a long-term sampling program is currently being evaluated in conjunction with the USEPA; however, GE desired to continue data compilation and perform groundwater sampling while awaiting a response from the USEPA regarding the long-term plan for the Site.

In addition, this document provides a Site Progress Report in accordance with the 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 location of the sump is shown on ***Figure 2***. 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 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 16 total 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 the 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 additional 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 the 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 output of the model, which contained the necessary information to make the CA-750 determination, was provided to the USEPA 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 the USEPA (*Documentation of Environmental Indicator Determination, RCRA Corrective Action, Environmental Indicator [EI] RCRIS code [CA750], Migration of Contaminated Groundwater Under Control*, Interim Final 2/5/99).

Subsequent to the fate and transport modeling and at the request of the USEPA, GE performed additional groundwater monitoring events (September 2009, December 2009, and March 2010). The results of the September and December 2009 and March 2010 monitoring events were previously submitted to the USEPA.

A meeting between the USEPA and GE was held on April 22, 2010, to discuss the extent of impacted groundwater and the need for further downgradient characterization. During this meeting, GE agreed to the USEPA's request to continue groundwater monitoring on a quarterly basis for one additional year. This report summarizes the field activities and results of the August 2010 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 between August 12 and 16, 2010. 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. Water levels in 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 USEPA 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 that 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 documentation until arrival at the laboratory.

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

- One field duplicate sample:
  P-21(S) – a duplicate sample of P-10A.

- One matrix spike/matrix spike duplicate (MS/MSD) from well P-15DD.

- One trip blank.

Groundwater and QA/QC samples were analyzed for VOCs by USEPA Method SW-846 8260B for the Appendix IX list of compounds by Lancaster Laboratories, Inc. of Lancaster, Pennsylvania. 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***.

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. The IDW will be disposed of by GE as non-hazardous waste through 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 August 2010 are presented in ***Table 1***. Groundwater is generally encountered 5 to 16 feet below ground surface, or 26 to 55 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 groundwater flow direction observed during this monitoring event is consistent with previous monitoring events and historical records.

The horizontal hydraulic gradient for the shallow aquifer onsite is 0.024 vertical feet per horizontal foot (ft/ft). The horizontal hydraulic gradient for the deep aquifer offsite is 0.010 ft/ft. The vertical hydraulic gradient between these two aquifers is approximately 0.086 ft/ft downward onsite and approximately 0.041 ft/ft downward offsite. The hydraulic gradients observed during this event is consistent with those observed during previous monitoring events

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 August 2010 sampling event (12 investigative 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)	1	2	2	200	0
1,1,2-Trichloroethane (1,1,2-TCA)	0	NA	NA	5	NA
1,1-Dichloroethane (1,1-DCA)	6	1	17	2.4*	1
1,1-Dichloroethene (1,1-DCE)	9	1	660	7	7
1,2-Dichloroethane (1,2-DCA)	1	2	2	5	0
Chloroform	4	0.8	1	70**	0
Trichlorofluoromethane	1	2	2	1,300	0

* USEPA Risk-based Screening Level for tap water
** USEPA Maximum Contaminant Level Goal

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 20 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 near 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.

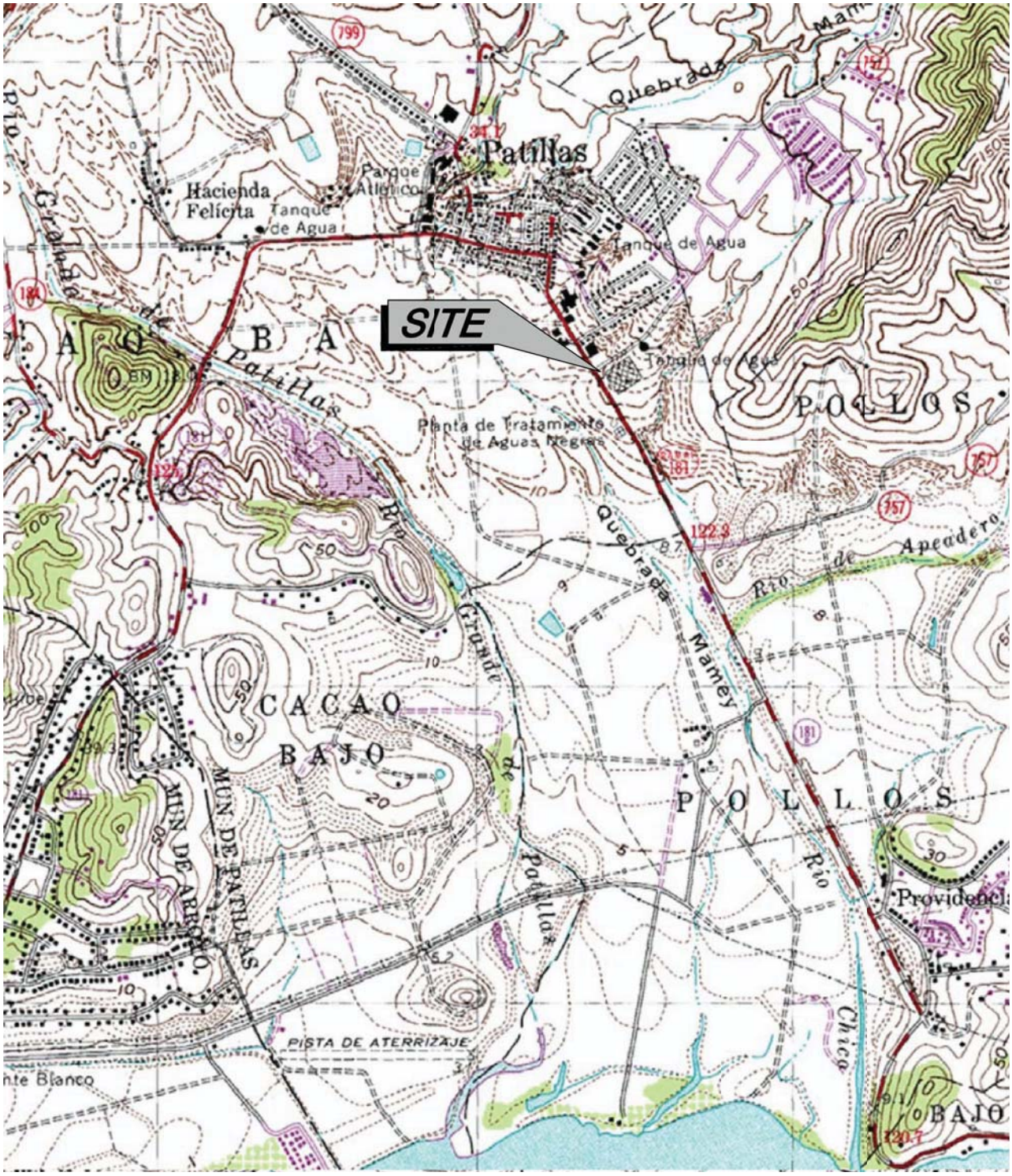
The historical sample results for constituents of concern in groundwater within the alluvial/colluvial aquifer are presented in ***Table 3***. In general, the results obtained during the August 2010 monitoring event are consistent with the historical results, with slight decreases observed at several locations. Trend graphs for 1,1-DCE concentrations in selected monitoring well are provided in ***Appendix C***.

5.0 PROGRESS REPORTING

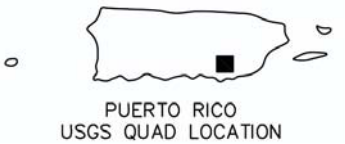
Appendix D contains the Progress Report for this reporting period (May 2 through September 30, 2010). The Progress Report was prepared in accordance with Section V.C. of the Site's Administrative Order on Consent (Order) dated March 29, 1988, and approved revisions (January 26, 2010).

A meeting between the USEPA and GE was held on April 22, 2010, to discuss the extent of impacted groundwater and the need for further downgradient characterization. During this meeting, GE agreed to the USEPA's request to continue groundwater monitoring on a quarterly basis for one additional year.

FIGURES



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



PUERTO RICO
USGS QUAD LOCATION

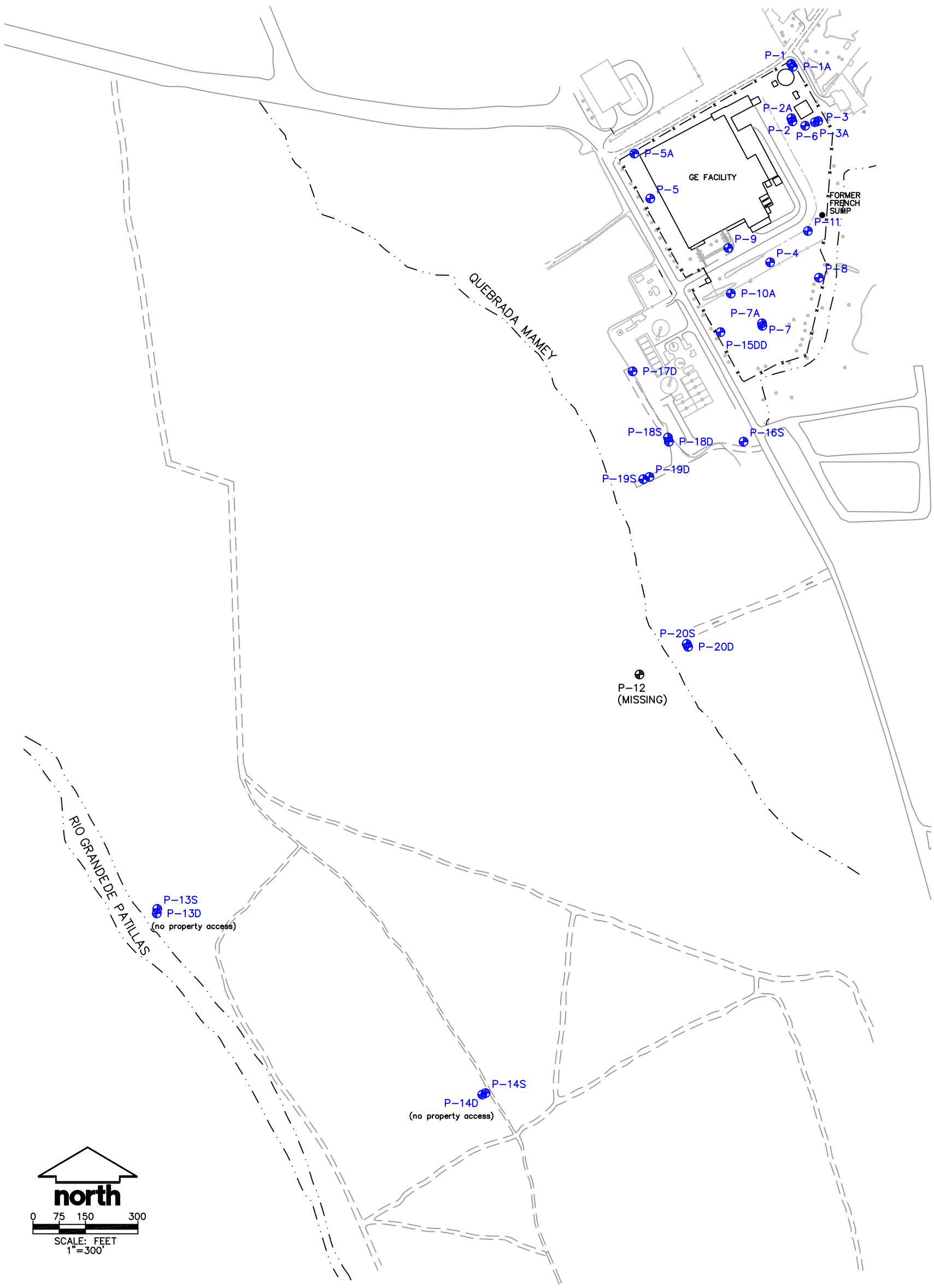
north

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

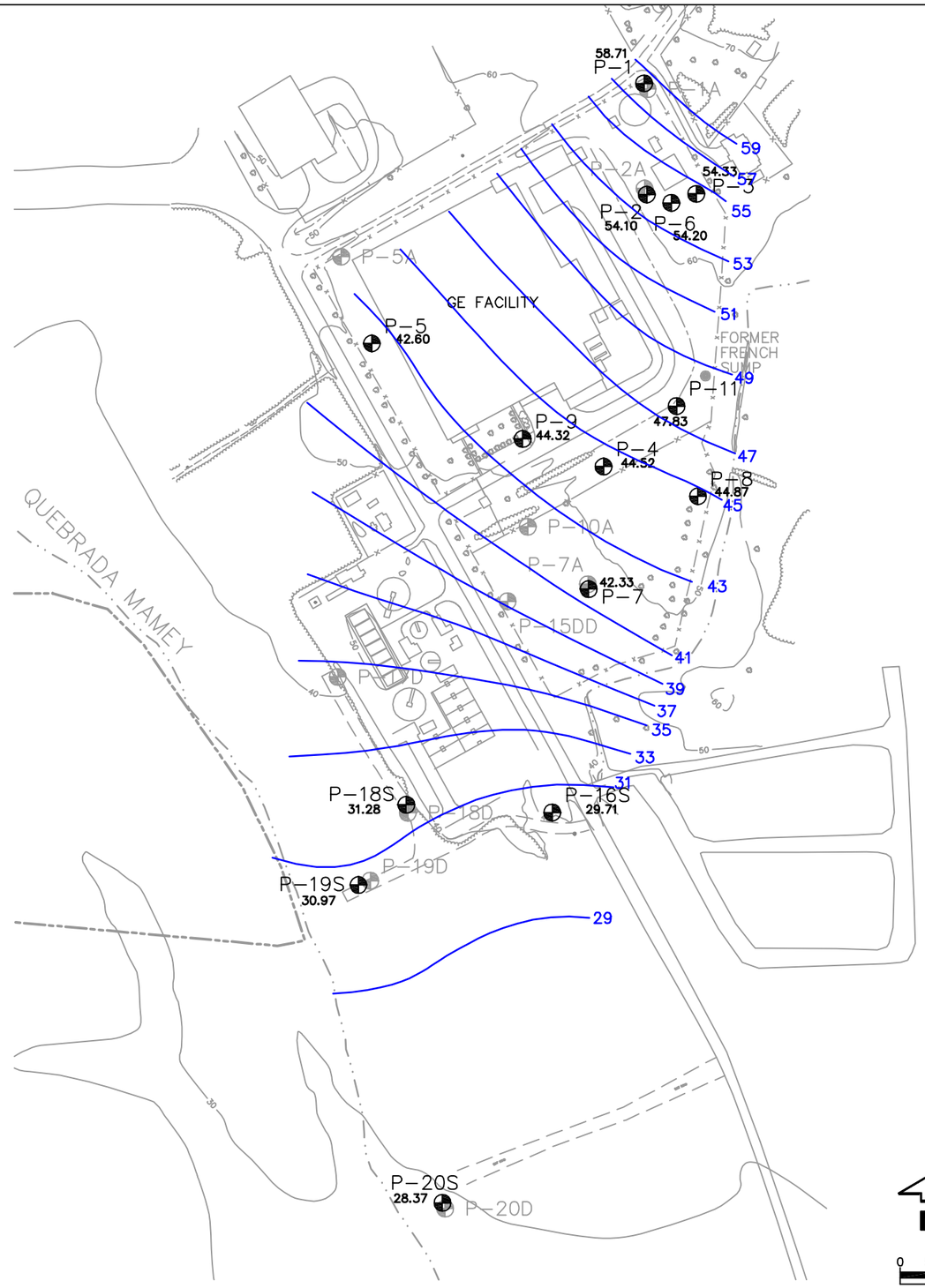
Site Map

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
- 29 — EQUIPOTENTIAL CONTOUR, DASHED WHERE INFERRED
- 28.37 — WATER TABLE ELEVATION (FEET ABOVE SEA LEVEL)

NOTES:

1. CONTOUR INTERVAL = 2 FEET

north

0 50 100 200

SCALE: FEET
1"=200'

General Electric Puerto Rico Investment
Patillas, Puerto Rico

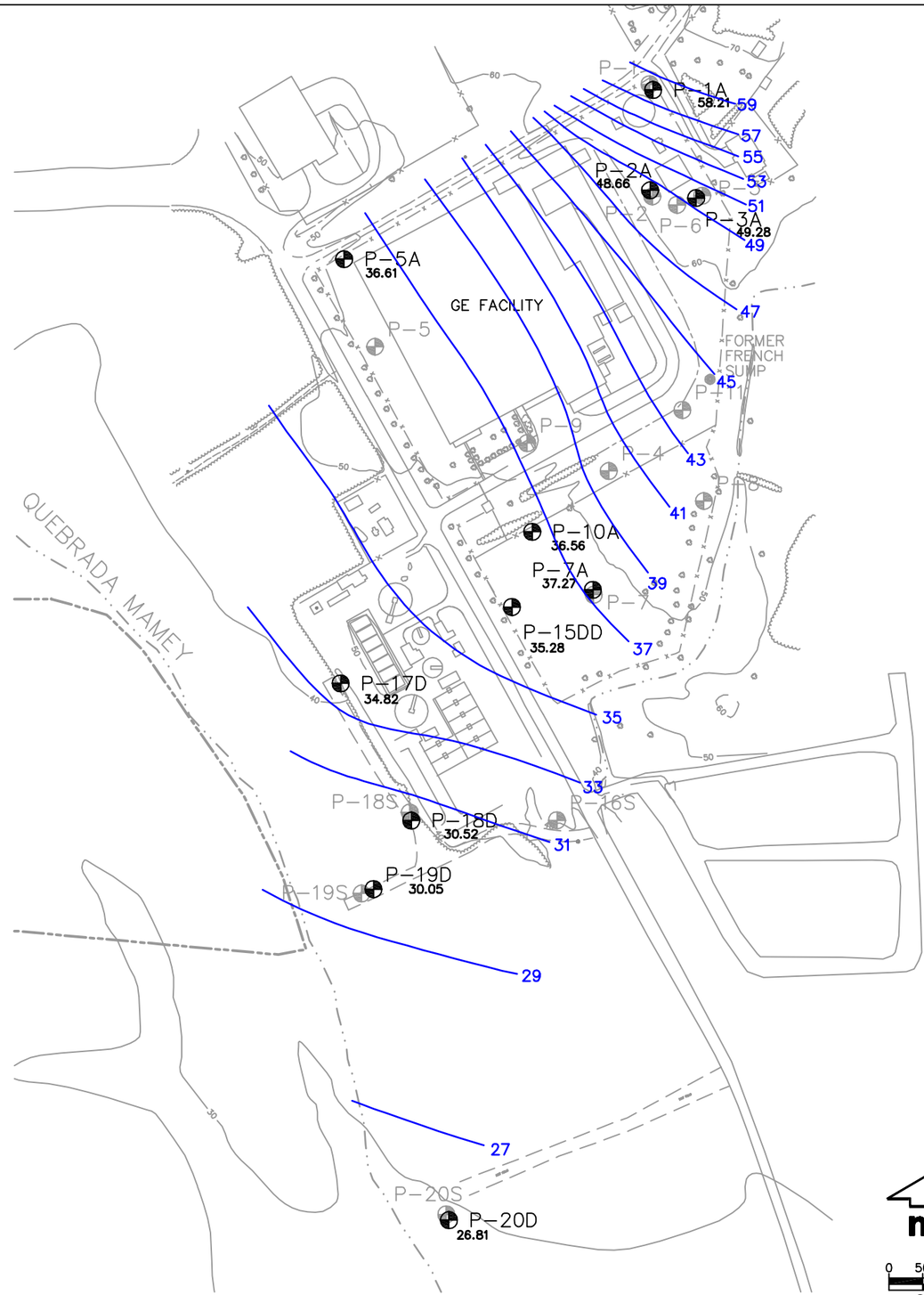
Shallow Groundwater Surface Map
August 2010

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\5 - Aug 10\Patillas GW - Shallow - Aug 2010.dwg Sep/23/10



LEGEND

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

NOTES:

1. CONTOUR INTERVAL = 2 FEET

north

0 50 100 200

SCALE: FEET
1"=200'

General Electric Puerto Rico Investment
Patillas, Puerto Rico

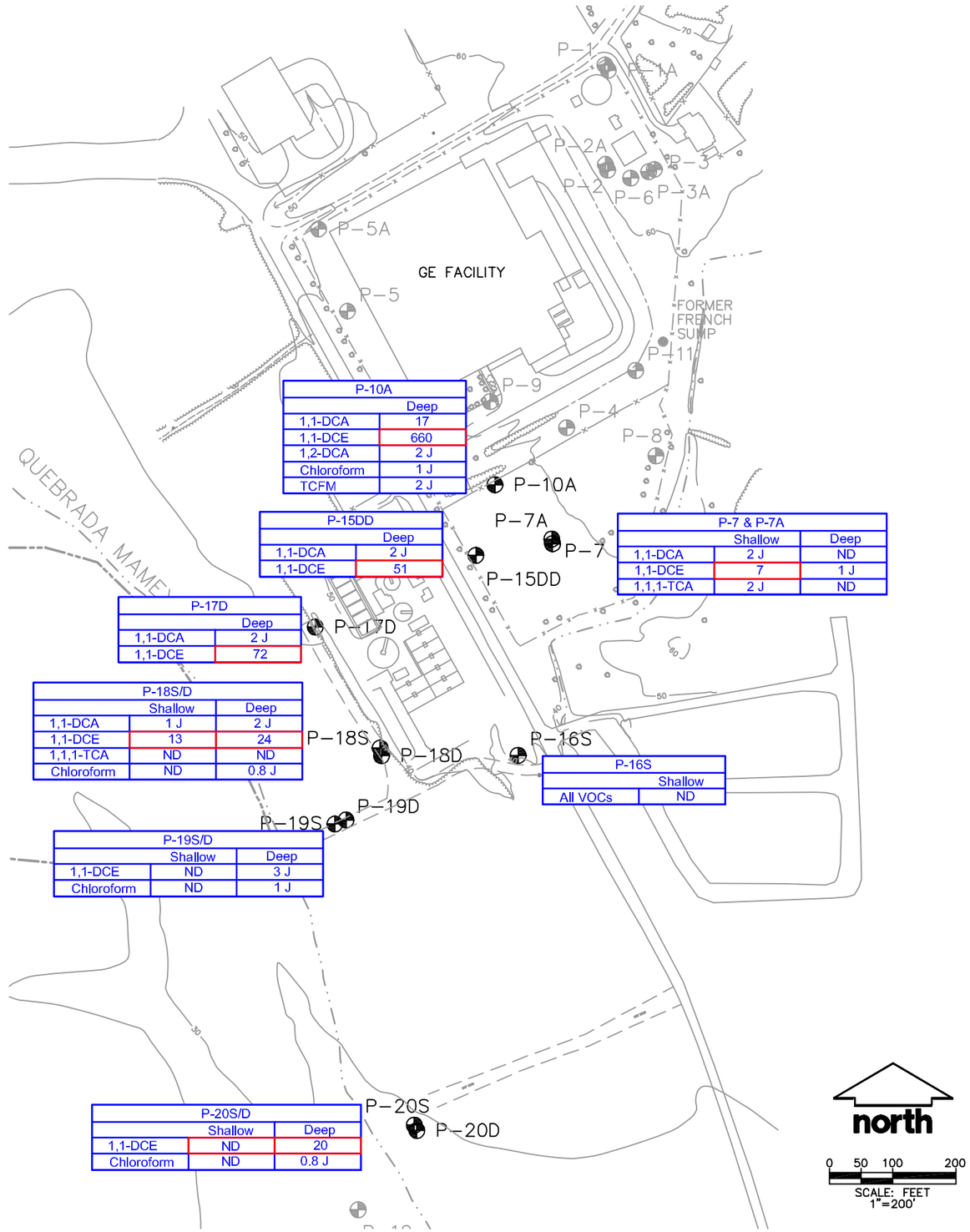
Deep Groundwater Surface Map
August 2010

FIGURE 3b

MWH

Drawn By & Date: DTM 7/15/09 | Approved By & Date: | Revised By & Date: DTM 08/27/10 | Approved By & Date:

J:\01a_400 General Electric Energy\72 - PATILLAS Puerto Rico\05 - CADD\Quarterly GW Mon\5 - Aug 10\Patillas GW - Deep - Aug 2010.dwg Sep/23/10



P-10A	Deep
1,1-DCA	17
1,1-DCE	660
1,2-DCA	2 J
Chloroform	1 J
TCFM	2 J

P-15DD	Deep
1,1-DCA	2 J
1,1-DCE	51

P-7 & P-7A	Shallow	Deep
1,1-DCA	2 J	ND
1,1-DCE	7	1 J
1,1,1-TCA	2 J	ND

P-17D	Deep
1,1-DCA	2 J
1,1-DCE	72

P-18S/D	Shallow	Deep
1,1-DCA	1 J	2 J
1,1-DCE	13	24
1,1,1-TCA	ND	ND
Chloroform	ND	0.8 J

P-16S	Shallow
All VOCs	ND

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

P-20S/D	Shallow	Deep
1,1-DCE	ND	20
Chloroform	ND	0.8 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	70*
TCFM	Trichlorofluoromethane	NA

*MCLG – Maximum Contaminant Level Goal

Sample Results that exceed MCLs are boxed in RED.

General Electric Puerto Rico Investment
Patillas, Puerto Rico

Groundwater Sample Results
August 2010

FIGURE 4

MWH

Drawn By & Date: BRT 12/28/09 | Approved By & Date: BRT | Revised By & Date: BRT 9/21/10 | Approved By & Date: BRT

J:\01a 400 General Electric Energy\72 – PATILLAS Puerto Rico\05 – CADD\Quarterly GW Mon\5 – Aug 10\Patillas GW – VOC Results Aug 2010.dwg Sep/23/10

LEGEND

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

General Electric Puerto Rico Investment
Patillas, Puerto Rico

Extent of 1,1-DCE in Groundwater
August 2010

FIGURE 5

MWH

Drawn By & Date: DM 7/15/09 | Approved By & Date: BRT | Revised By & Date: BRT 9/21/10 | Approved By & Date:

J:\01a 400 General Electric Enero\72 - PATILLAS Puerto Rico\05 - CADD\Quarterly GW Mon\5 - Aug 10\Patillas GW - VOC Results Aug 2010.dwg Sep/23/10

TABLES

Table 1
Groundwater Elevation Data - August 2010
GE Puerto Rico Investment, Inc.
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	10.00	58.71
P-1A	Deep Saprolite	8/7/86	70.00	67.47	68.71	10.50	58.21
P-2	Shallow	8/1/86	20.50	61.85	63.60	9.50	54.10
P-2A	Deep	8/20/86	69.00	62.23	63.46	14.80	48.66
P-3	Shallow	8/4/86	25.50	63.54	64.58	10.25	54.33
P-3A	Deep	8/15/86	70.00	63.23	64.68	15.40	49.28
P-4	Shallow	7/29/86	19.11	51.25	52.92	8.40	44.52
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	11.30	42.60
P-5A	Deep Saprolite	9/15/86	70.00	51.14	52.51	15.90	36.61
P-6	Shallow	8/30/88	26.00	63.05	63.70	9.50	54.20
P-7	Shallow	2/3/89	18.15	47.64	49.73	7.40	42.33
P-7A	Deep Saprolite	2/2/89	58.20	47.80	49.67	12.40	37.27
P-8	Shallow	2/3/89	17.70	52.19	54.87	10.00	44.87
P-9	Shallow	2/6/89	17.40	50.35	52.32	8.00	44.32
P-10A	Deep Alluvium/Sap	2/9/89	51.50	47.92	49.86	13.30	36.56
P-11	Shallow	2/8/89	13.20	52.95	54.68	6.85	47.83
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	12.40	35.28
P-16S	Shallow	5/27/04	26.30	40.39	42.61	12.90	29.71
P-17D	Deep	6/1/04	61.00	38.26	41.02	6.20	34.82
P-18S	Shallow	5/28/04	16.60	36.55	39.08	7.80	31.28
P-18D	Deep	5/31/04	50.00	36.26	38.52	8.00	30.52
P-19S	Shallow	5/28/04	15.80	33.89	36.37	5.40	30.97
P-19D	Deep	6/30/04	36.50	34.32	36.45	6.40	30.05
P-20S	Shallow	5/4/06	26.00	31.70	34.67	6.30	28.37
P-20D	Deep	5/4/06	52.00	31.50	34.31	7.50	26.81

Horizontal coordinates in Puerto Rico State Plane (feet, ft), 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 - August 2010
GE Puerto Rico Investment, Inc.
Patillas, Puerto Rico

	RSL or MCL*	P-7	P-7A	P-10A	P-10A (duplicate)	P-15DD	P-16S	P-17D	P-18S	P-18D	P-19S	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
1,1,1-Trichloroethane	200*	**2 J**	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
1,1,2,2-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
1,1,2-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
1,1-Dichloroethane	2.4	**2 J**	1 U	**17**	**17**	**2 J**	1 U	**2 J**	**1 J**	**2 J**	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7*	**7**	**1 J**	**660**	**610**	**51**	0.8 U	**72**	**13**	**24**	0.8 U	**3 J**	0.8 U	**20**
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
1,2,3-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
1,2,3-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
1,2,4-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
1,2,4-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
1,2-Dibromo-3-chloropropane	0.2	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
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
1,2-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
1,2-Dichloroethane	5*	1 U	1 U	**2 J**	**2 J**	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
1,3,5-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
1,3-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
1,3-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
1,4-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
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
2-Butanone	7,100	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ
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
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
4-Methyl-2-pentanone	2,000	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ	3 UJ
Acetone	22,000	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ
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
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
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
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
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
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
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
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
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
Chloroform	70**	0.8 U	0.8 U	**1 J**	**1 J**	0.8 U	0.8 U	0.8 U	0.8 U	**0.8 J**	0.8 U	**1 J**	0.8 U	**0.8 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
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
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
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
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
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
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
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
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
Methyl Tertiary Butyl Ether	12	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
Methylene Chloride	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
m-Xylene	1,400	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
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
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
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
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
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
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
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
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
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
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
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
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
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
Trichlorofluoromethane	1,300	2 U	2 U	**2 J**	**3 J**	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

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

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

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	RSL or MCL*	**200***		**2.4**		**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	**5.0**		**9.0**		**31**	
	Mar-10	**7.0**		**7.0**		**22**	
	Aug-10	**2.0**	J	**2.0**	J	**7.0**	

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	RSL or MCL*	**200***		**2.4**		**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	**3.0**	J
	Sep-09	0.8	U	1.0	U	**3.0**	J
	Dec-09	0.8	U	1.0	U	**3.0**	J
	Mar-10	0.8	U	1.0	U	**1.0**	J
	Aug-10	0.8	U	1.0	U	**1.0**	J

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

		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
	RSL or MCL*	200*		2.4		7.0*		RSL or MCL*	200*	2.4	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				

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

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	RSL or MCL*	200*		2.4		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
	RSL or MCL*	200*		2.4		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**
	Mar-10	0.8	U	**17**		**630**
	Aug-10	0.8	U	**17**		**660**

No associated deep well

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

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	RSL or MCL*	200*		2.4		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
	Mar-10	0.8	U	1.0	U	1.0	U
	Aug-10	0.8	U	1.0	U	0.8	U
P-17D							
No associated shallow well							

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	RSL or MCL*	200*		2.4		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**	
	Mar-10	0.8	U	**2.0**	J	**52**	
	Aug-10	0.8	U	**2.0**	J	**51**	
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**	
	Mar-10	0.8	U	**2.0**	J	**72**	
	Aug-10	0.8	U	**2.0**	J	**72**	

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

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	RSL or MCL*	**200***		**2.4**		**7.0***	
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**	
	Mar-10	**1.0**	J	**2.0**	J	**27**	
	Aug-10	0.8	U	**1.0**	J	**13**	
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
	Mar-10	0.8	U	1.0	U	**3.0**	J
	Aug-10	0.8	U	1.0	U	0.8	U
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
	Mar-10	0.8	U	1.0	U	**8.0**	J
	Aug-10	0.8	U	1.0	U	0.8	U

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	RSL or MCL*	**200***		**2.4**		**7.0***	
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**	
	Mar-10	0.8	U	**2.0**	J	**33**	
	Aug-10	0.8	U	**2.0**	J	**24**	
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
	Mar-10	0.8	U	1.0	U	**6.0**	J
	Aug-10	0.8	U	1.0	U	**3.0**	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**	
	Mar-10	0.8	U	1.0	U	**22**	
	Aug-10	0.8	U	1.0	U	**20**	

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

RSL - USEPA Regional Screening Level
*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 the RSL or MCLs are boxed.

APPENDIX A

GROUNDWATER SAMPLING LOGS

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-7	Sampler	~~NTM~~ NOD
Site	Patillas	Total Well Depth	19.2 FT	Samples Collected: VOCs	
Job Number	100683X010103	Pump Intake Depth (ft)	18.2 FT		

		BLADDER PUMP SETTINGS			
Static Water Level (ft)	7.4 FT	Refill	10	Time Purge Started	8:10 AM
Pumping Water Level (ft)	7.4 FT	Discharge	5	Sampling Date	Aug./16/10
Standing Water Column (ft)	11.8 FT	Pressure	25	Sample Time	8:46 AM
Purge & Sampling Methods	QED Bladder Pump			Total Volume Purged (gal)	1 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/min 75mL<rate<400mL	Comments
8:15A	6.34	0.438	38.2	1.43	30.32	168	7.4	125.00	1" pump
8:20A	6.25	0.428	12.3	0.81	30.61	168	7.4	125.00	
8:25A	6.22	0.429	7.9	0.66	30.81	165	8.0	125.00	
8:30A	6.22	0.431	6.5	0.65	31.27	164	8.0	125.00	
8:35A	6.21	0.439	5.1	0.61	31.52	163	8.0	125.00	
8:40A	6.21	0.450	5.3	0.60	31.64	164	8.0	125.00	
8:45A	6.20	0.450	4.6	0.59	31.70	165	8.0	125.00	≈ 1 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-7A	Sampler	~~[illegible]~~ NOD
Site	Patillas	Total Well Depth	50.40 FT	Samples Collected: VOC's	
Job Number	10068333.010102	Pump Intake Depth (ft)	49.40 FT		

Static Water Level (ft)	12.70 FT	BLADDER PUMP SETTINGS		Time Purge Started	9:08 AM
Pumping Water Level (ft)	12.70 FT	Refill	10	Sampling Date	Aug./16/10
Standing Water Column (ft)	37.70 FT	Discharge	5	Sample Time	9:44 AM
Purge & Sampling Methods	QED Bladder Pump	Pressure	30	Total Volume Purged (gal)	1 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/MIN 75ml<rate<400ml	Comments
9:13A	6.45	0.398	11.0	1.01	30.59	143	12.90	125.00	
9:18A	6.43	0.396	10.9	0.57	30.60	137	12.90	125.00	
9:23A	6.42	0.398	8.5	0.48	30.70	134	12.90	125.00	
9:28A	6.41	0.396	8.8	0.42	30.78	132	12.90	125.00	
9:33A	6.41	0.396	8.1	0.38	30.90	132	12.90	125.00	
9:38A	6.40	0.396	8.1	0.37	31.07	131	12.90	125.00	
9:43A	6.39	0.394	7.7	0.36	31.23	132	12.90	125.00	≈ 1 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-10 A	Sampler	~~DTM~~ NOD
Site	Patillas	Total Well Depth	39.30 FT	Samples Collected: VOCs	
Job Number	100633.010101	Pump Intake Depth (ft)	38.30 FT		

Static Water Level (ft)	13.30 FT	BLADDER PUMP SETTINGS		Time Purge Started	10:07 AM
Pumping Water Level (ft)	13.50 FT	Refill	10	Sampling Date	Aug/16/10
Standing Water Column (ft)	26.00 FT	Discharge	5	Sample Time	10:53 AM
Purge & Sampling Methods	QED Bladder Pump	Pressure	25	Total Volume Purged (gal)	1.32 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/MIN 75ml<rate<400ml	Comments
10:12A	11.70	0.997	8.4	5.05	30.30	0	13.50	125.00	
10:17A	11.72	0.967	8.8	4.97	30.10	2	13.50	125.00	
10:22A	11.68	0.896	10.3	4.83	29.95	6	13.50	125.00	
10:27A	11.70	0.911	9.3	4.80	29.88	10	13.50	125.00	
10:32A	11.68	0.932	8.9	4.78	29.87	11	13.50	125.00	
10:37A	9.29	0.500	8.0	2.01	29.90	72	13.50	125.00	
10:42A	8.23	0.527	4.7	1.31	29.88	115	13.50	125.00	
10:47A	7.56	0.536	3.6	0.88	29.90	136	13.50	125.00	
10:52A	7.29	0.537	3.7	0.65	29.96	136	13.50	125.00	≈ 1.32 gal

DUP = P-21S
SAMPLING TIME : 01:53 ~~AM~~ PM NOD

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-15-DD	Sampler	~~HHM~~ NOD
Site	Patillas	Total Well Depth	75.80 FT	Samples Collected: VOCs	
Job Number	10068333.010103	Pump Intake Depth (ft)	74.80 FT		

Static Water Level (ft)	12.40 FT	BLADDER PUMP SETTINGS		Time Purge Started	12:20 PM
Pumping Water Level (ft)	12.40 FT	Refill	10	Sampling Date	AUG. 16/10
Standing Water Column (ft)	63.40 FT	Discharge	5	Sample Time	12:56 PM
Purge & Sampling Methods	QED Bladder Pump	Pressure	45	Total Volume Purged (gal)	1 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/MIN 75ml<rate<400ml	Comments
12:25P	6.69	0.519	59.5	1.51	32.44	129	12.40	125.00	
12:30P	6.66	0.512	63.6	0.99	32.14	~~114~~ 114	12.40	125.00	ORP correct num. is 114.
12:35P	6.64	0.511	66.8	0.76	32.05	104	12.40	125.00	
12:40P	6.65	0.512	82.5	0.62	32.15	101	12.40	125.00	
12:45P	6.65	0.515	58.5	0.57	32.06	101	12.40	125.00	
12:50P	6.65	0.519	41.6	0.61	32.20	102	12.40	125.00	
12:55P	6.66	0.519	43.3	0.56	31.89	103	12.40	125.00	≈ 1 gal

MS/MSD from this sample @ 12:56 AM PM

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-16-S	Sampler	~~[illegible]~~ NOD
Site	Parilla	Total Well Depth	28.00	Samples Collected:	VOC's
Job Number	100683.010101	Pump Intake Depth (ft)	27.00		

Static Water Level (ft)	12.90	BLADDER PUMP SETTINGS		Time Purge Started	9:17A
Pumping Water Level (ft)	13.20	Refill	10	Sampling Date	AUG-12-10
Standing Water Column (ft)	14.80	Discharge	5	Sample Time	10:12 AM
Purge & Sampling Methods	QED Bladder Pump	Pressure	25	Total Volume Purged (gal)	1.71 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/m 75ml<rate<400ml	Comments
9:22A	6.56	0.899	284	3.06	28.63	28.63	13.00	144.50	
9:27A	6.48	0.894	155	2.57	28.74	28.74	13.20	144.50	
9:32A	6.46	0.892	146	2.14	28.76	28.76	13.20	144.00	
9:37A	6.45	0.897	116	1.84	28.73	28.73	13.20	144.00	
9:42A	6.44	0.911	99.1	1.51	28.80	28.80	13.20	144.85	
9:47A	6.45	0.919	89.2	1.28	28.81	28.81	13.20	144.00	
9:52A	6.45	0.921	89.5	1.09	28.82	28.82	13.20	145.00	
9:57A	6.45	0.923	85.4	0.92	28.82	28.82	13.20	140.00	
10:02A	6.44	0.924	86.5	0.83	28.82	28.82	13.20	145.20	
10:07A	6.45	0.926	88.5	0.78	28.77	28.77	13.20	145.00	≈ 1.71 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-17D	Sampler	~~DFM~~ NOD
Site	Patillas	Total Well Depth	63.80'	Samples Collected: VOCs	
Job Number	1006833.010103	Pump Intake Depth (ft)	62.00		

Static Water Level (ft)	~~62.00~~ 6.20	BLADDER PUMP SETTINGS		Time Purge Started	11:23A
Pumping Water Level (ft)	6.20	Refill	10	Sampling Date	AUG/12/10
Standing Water Column (ft)	57.60	Discharge	5	Sample Time	12:01P
Purge & Sampling Methods	QED Bladder Pump	Pressure	45	Total Volume Purged (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/MIN) 75ml<rate<400ml	Comments
11:25A	6.99	0.565	68.3	2.30	29.07	67	6.2	137.74	
11:30A	6.93	0.582	63.7	0.69	28.54	66	6.2	140.00	
11:35A	6.91	0.581	61.6	0.51	28.43	66	6.2	140.00	
11:40A	6.90	0.580	61.9	0.45	28.36	66	6.2	153.20	
11:45A	6.90	0.581	59.5	0.41	28.32	66	6.2	151.00	
11:50A	6.88	0.584	58.8	0.40	28.33	64	6.2	153.15	
11:55A	6.90	0.581	55.4	0.37	28.34	60	6.2	153.00	
12:00	6.90	0.581	52.3	0.37	28.35	57	6.2	153.00	≈ 1.29 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-18-S	Sampler	~~JHH~~ NOD
Site	Patillas	Total Well Depth	19.0 FT	Samples Collected:	VOCs
Job Number	10068333.010103	Pump Intake Depth (ft)	18.0 FT		

Static Water Level (ft)	7.80	BLADDER PUMP SETTINGS		Time Purge Started	7:40 AM
Pumping Water Level (ft)	7.80	Refill	10	Sampling Date	AUG/13/10
Standing Water Column (ft)	11.20	Discharge	5	Sample Time	8:16A
Purge & Sampling Methods	QED Bladder Pump	Pressure	20	Total Volume Purged (gal)	1 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/m 75ml<rate<400ml	Comments
7:45A	6.34	0.574	8.00	1.07	27.86	147	7.80	125.00	
7:50A	6.27	0.571	8.70	0.71	27.81	151	7.80	125.00	
7:55A	6.23	0.585	10.20	0.59	27.83	153	7.80	125.00	
8:00A	6.22	0.584	7.30	0.58	27.89	153	7.80	125.00	
8:05A	6.21	0.592	8.40	0.52	27.88	156	7.80	125.00	
8:10A	6.21	0.585	9.20	0.57	27.83	155	7.80	125.00	
8:15A	6.21	0.599	10.90	0.54	27.84	158	7.80	125.00	≈ 1 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-18-D	Sampler	~~DTM~~ NOD
Site	Pacillas	Total Well Depth	48.0 FT	Samples Collected: VOCs	
Job Number	10068330.010193	Pump Intake Depth (ft)	47.0 FT		

		BLADDER PUMP SETTINGS			
Static Water Level (ft)	8.0 FT	Refill	10	Time Purge Started	8:31AM
Pumping Water Level (ft)	8.0 FT	Discharge	5	Sampling Date	4U6·13·10
Standing Water Column (ft)	40.0 FT	Pressure	25	Sample Time	9:07A
Purge & Sampling Methods	QED Bladder Pump			Total Volume Purged (gal)	1 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/m 75ml<rate<400ml	Comments
8:36A	6.79	0.472	4.60	4.55	28.56	114	8.0	125	
8:41A	6.45	0.465	2.40	2.10	28.51	119	8.0	125	
8:46A	6.41	0.464	1.70	1.66	28.38	125	8.0	125	
8:51A	6.40	0.464	1.80	1.41	28.41	129	8.0	125	
8:56A	6.39	0.467	2.0	1.27	28.46	131	8.0	125	
9:01A	6.39	0.465	2.10	1.14	28.44	132	8.0	125	
9:06A	6.39	0.465	2.40	1.03	28.45	133	8.0	125	~1 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-19S	Sampler	~~[illegible]~~ NOD
Site	Patillas	Total Well Depth	18.10FT	Samples Collected: VOCs	
Job Number	1006833.010193	Pump Intake Depth (ft)	17.10FT		

Static Water Level (ft)	5.40FT	BLADDER PUMP SETTINGS		Time Purge Started	9:44AM
Pumping Water Level (ft)	5.40FT	Refill	10	Sampling Date	AUG/13/10
Standing Water Column (ft)	12.70FT	Discharge	5	Sample Time	10:26 AM
Purge & Sampling Methods	QED Bladder Pump	Pressure	20	Total Volume Purged (gal)	1 gal

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

Time	pH ±0.1	Cond. ±3% mS/cm	Turbidity ±10% (NTU)	DO ±10% (mg/L)	Temp ±3% (°C)	ORP ±10mV (mV)	Depth to Water <0.2' FT	Flow Rate 75ml<rate<400ml ML/MIN	Comments
9:50A	6.15	0.375	121	3.06	29.27	188	5.40	103.52	
9:55A	6.12	0.378	44.5	2.94	29.07	196	5.40	103.00	FLOW RATE IS CONSTANT
10:00A	6.12	0.379	38.7	2.90	29.20	200	5.40	103.00	1"Ø SUCTION PUMP
10:05A	6.13	0.380	38.0	2.92	29.12	204	5.40	103.00	
10:10A	6.13	0.379	40.2	2.88	28.98	208	5.40	103.00	
10:15A	6.13	0.380	37.2	2.89	29.10	211	5.40	103.00	
10:20A	6.13	0.380	39.5	2.91	29.07	212	5.40	103.00	
10:25A	6.13	0.380	37.4	2.88	29.07	214	5.40	103.00	≈ 1 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-19 D	Sampler	~~[illegible]~~ NOD
Site	Parillas	Total Well Depth	38.20FT	Samples Collected: VOC's	
Job Number	10068333.010102	Pump Intake Depth (ft)	37.20FT		

Static Water Level (ft)	6.40FT	BLADDER PUMP SETTINGS		Time Purge Started	10:45 AM
Pumping Water Level (ft)	6.40FT	Refill	10	Sampling Date	Aug/13/10
Standing Water Column (ft)	31.80FT	Discharge	5	Sample Time	11:21 AM
Purge & Sampling Methods	QED Bladder Pump	Pressure	25	Total Volume Purged (gal)	1 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/MIN 75ml<rate<400ml	Comments
10:50A	6.44	0.470	7.6	2.19	29.38	206	6.40	117.65	
10:55A	6.40	0.477	3.4	1.19	29.34	196	6.40	117.65	
11:00A	6.39	0.478	3.2	1.02	29.31	186	6.40	117.00	
11:05A	6.40	0.481	2.4	0.95	29.35	181	6.40	125.00	
11:10A	6.38	0.478	2.1	0.92	29.29	178	6.40	125.00	
11:15A	6.38	0.478	2.2	0.91	29.34	176	6.40	125.00	
11:20A	6.37	0.480	2.0	0.92	29.33	176	6.40	125.00	≈ 1 gal.

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-20-S	Sampler	~~DHT~~ NOD
Site	Pacillas	Total Well Depth	24.90 FT	Samples Collected:	VOCs
Job Number	100833.010103	Pump Intake Depth (ft)	23.90 FT		

Static Water Level (ft)	6.30 FT	BLADDER PUMP SETTINGS		Time Purge Started	12:46 PM
Pumping Water Level (ft)	6.40 FT	Refill	10	Sampling Date	AUG/13/10
Standing Water Column (ft)	18.60 FT	Discharge	5	Sample Time	1:27 pm
Purge & Sampling Methods	QED Bladder Pump	Pressure	20	Total Volume Purged (gal)	1 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/min 75ml<rate<400ml	Comments
12:51P	6.70	0.242	2.7	2.09	28.52	154	6.40	111.11	
12:56P	6.61	0.240	3.3	1.55	28.21	152	6.40	111.11	
1:01P	6.60	0.242	7.5	1.54	28.42	144	6.40	111.11	
1:06P	6.57	0.244	9.3	1.45	27.99	145	6.40	110.00	
1:11P	6.56	0.242	12.0	1.32	28.66	144	6.40	110.00	
1:16P	6.56	0.244	14.3	1.32	28.28	144	6.40	110.00	
1:21P	6.56	0.244	13.0	1.31	28.31	145	6.40	110.00	
1:26P	6.55	0.240	14.70	1.29	28.30	145	6.40	110.00	~ 1 gal

GROUNDWATER SAMPLING LOG

Client	GE	Well Number	P-20-D	Sampler	~~[illegible]~~ ~~ONG~~ NOD
Site	Patillas	Total Well Depth	53.0 FT	Samples Collected: VOCs	
Job Number	1006833.010101	Pump Intake Depth (ft)	52.0 FT		

Static Water Level (ft)	7.5 FT	BLADDER PUMP SETTINGS		Time Purge Started	1:48 PM
Pumping Water Level (ft)	7.5 FT	Refill	10	Sampling Date	AUG/13/10
Standing Water Column (ft)	45.5 FT	Discharge	5	Sample Time	2:24 PM
Purge & Sampling Methods	QED Bladder Pump	Pressure	38	Total Volume Purged (gal)	1 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/MIN 75ml<rate<400ml	Comments
1:53P	6.71	0.455	12.0	1.59	28.85	137	7.5	125.00	
1:58P	6.65	0.452	11.6	0.99	28.59	127	7.5	125.00	
2:03P	6.68	0.452	12.3	0.97	28.35	123	7.5	125.00	
2:08P	6.67	0.458	11.8	0.70	28.19	122	7.5	125.00	
2:13P	6.67	0.456	9.6	0.63	28.15	121	7.5	125.00	
2:18P	6.67	0.460	10.0	0.62	28.10	120	7.5	125.00	
2:23P	6.65	0.462	9.1	0.53	28.13	124	7.5	125.00	≈ 1 gal

GE PATILLAS

LOG BY = ONG

AUG-13-10

WATER LEVELS

TIME :	WELL ID	DTW (FT)	NOTES
9:00A	P-1A	10.50	(LOCKS CORRODED WERE CUT NEED REPLACEMENT.)
9:03A	P-1	10.00	
9:06A	P-2	9.50	
9:10A	P-2A	14.80	
9:15A	P-3	10.25	
9:17A	P-3a	15.40	
9:20A	P-4	8.40	
9:25A	P-5	11.30	
9:28A	P-5A	15.90	
9:29A	P-6	9.50	
9:40A	P-7	7.40	
9:45A	P-7A	12.40	
9:59A	P-8	10.00	
10:04A	P-9	8.00	
10:09A	P-10A	13.30	
10:15A	P-11	6.85	
10:20A	P-15	12.40	
11:00A	P-16-S	12.90	
11:15A	P-17D	6.20	
11:30A	P-18S	7.80	
11:34A	P-18D	8.00	
11:40A	P-19-D	6.40	
11:45A	P-20-S	6.30	
11:49A	P-20-D	7.50	

APPENDIX B

LABORATORY ANALYTICAL DATA

(INCLUDED ON CD)

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:

6061430	6061438
6061431	6061439
6061432	6061440
6061433	6061441
6061434	6061442
6061435	6061443
6061436	6061444
6061437	6061445

Lcda. Daliz M. Estades Santaliz

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Daliz M. Estades Santaliz
Lic. 4028
QUIMICO LICENCIADO

A 1327225

PO Box 727
Dorado, PR 00646-0727

Analysis Report

Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL06

Report Date: 9/20/2010 16:48
Submit Date: 8/17/2010 9:15

Analysis Name	Units	6061430 TB-1 Result	MDL	6061431 P-16-S Result	MDL	6061432 P-17-D 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	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	72	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

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PTL06 0009
Daliz M. Estades Santaliz
Lic. 4026
QUIMICO LICENCIADO

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

Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL06

Report Date: 9/20/2010 16:48
Submit Date: 8/17/2010 9:15

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.	1	N.D.	1	N.D.	1
Toluene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2,3-Trichlorobenzene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichlorofluoromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,3-Trichloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
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.	1	N.D.	1	N.D.	1
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
		N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	6061433 P-18-S Result	MDL	6061434 P-18-D Result	MDL	6061435 P-19-S 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	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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Daliz M. Estades Santaliz
Lic. 4026
QUIMICO LICENCIADO

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

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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	1 J	1	2 J	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	13	0.8	24	0.8	N.D.	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	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	6061436 P-19-D Result	MDL	6061437 P-7 Result	MDL	6061438 P-7A Result	MDL

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Daliz M. Estades Santaliz
Lic. 4026
QUIMICO LICENCIADO

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

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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	1 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	2 J	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	3 J	0.8	7	0.8	1 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
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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Daliz M. Estades Santaliz
Lic. 4026
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Lancaster Laboratories, Inc.
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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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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	2 J	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

		6061439		6061440		6061441	
Analysis Name	Units	P-10-A	MDL	P-15-DD	MDL	P-15-DD Matrix Spike	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	18	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	17	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	15	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	17	1
Bromoform	ug/l	N.D.	1	N.D.	1	15	1
Bromomethane	ug/l	N.D.	1	N.D.	1	14	1
2-Butanone	ug/l	N.D.	3	N.D.	3	120	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	18	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	19	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	18	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	19	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	15	1
Chloroform	ug/l	1 J	0.8	N.D.	0.8	19	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	15	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	18	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	17	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	16	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	16	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	17	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	17	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	17	1

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Daliz M. Estades Santaliz
Lic. 4026
QUIMICO LICENCIADO

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

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1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	17	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	14	2
1,1-Dichloroethane	ug/l	17	1	2 J	1	21	1
1,2-Dichloroethane	ug/l	2 J	1	N.D.	1	18	1
1,1-Dichloroethene	ug/l	660	8	51	0.8	67	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	19	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	18	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	17	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	19	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	19	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	17	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	16	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	16	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	18	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	18	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	18	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	80	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	18	2
Naphthalene	ug/l	N.D.	1	N.D.	1	16	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	18	1
Styrene	ug/l	N.D.	1	N.D.	1	18	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	17	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	17	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	18	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	16	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	20	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	18	1
Trichlorofluoromethane	ug/l	2 J	2	N.D.	2	15	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	16	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	18	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	18	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	15	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	36	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8

Analysis Name	Units	6061442 P-15-DD Matrix Spike Dup Result	MDL	6061443 P-21-S Result	MDL	6061444 P-20-S Result	MDL
Acetone	ug/l	130	6	N.D.	6	N.D.	6

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Luis M. Estades Santaliz
Lic. 4026
QUIMICO LICENCIADO

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

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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	18	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	19	1	N.D.	1	N.D.	1
Bromoform	ug/l	16	1	N.D.	1	N.D.	1
Bromomethane	ug/l	17	1	N.D.	1	N.D.	1
2-Butanone	ug/l	130	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	19	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	20	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	20	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	21	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	19	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	19	1	N.D.	1	N.D.	1
Chloroform	ug/l	20	0.8	1 J	0.8	N.D.	0.8
Chloromethane	ug/l	17	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	17	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	18	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	18	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	16	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	23	1	17	1	N.D.	1
1,2-Dichloroethane	ug/l	20	1	2 J	1	N.D.	1
1,1-Dichloroethene	ug/l	71	0.8	610	8	N.D.	0.8
cis-1,2-Dichloroethene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	21	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	20	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	21	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	21	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	18	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	18	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	18	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	20	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	20	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	20	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	85	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	19	2	N.D.	2	N.D.	2
Naphthalene	ug/l	18	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

PTL06-8015

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717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL06

Report Date: 9/20/2010 16:48
Submit Date: 8/17/2010 9:15

1,1,1,2-Tetrachloroethane	ug/l	19	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	18	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	20	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	18	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	18	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	19	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	20	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	18	2	3 J	2	N.D.	2
1,2,3-Trichloropropane	ug/l	18	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	20	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	20	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	18	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	39	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	6061445 P-20-D 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
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	0.8 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

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PTL06 8616

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL06

Report Date: 9/20/2010 16:48
Submit Date: 8/17/2010 9:15

1,1-Dichloroethane	ug/l	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1
1,1-Dichloroethene	ug/l	20	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
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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PTL06 0017

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Lancaster, PA 17605-2425
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Lancaster Laboratories

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Type I Data Package

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021

Project: GE Patillas Puerto Rico
Water Samples
Collected on 08/12/10-08/16/10

SDG# PTL06

GROUP	SAMPLE NUMBERS
1207973	6061430-6061445

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

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Luz C Torres

Luz C Torres
Group Leader

Date 9/22/10

Any questions or concerns you might have regarding this data package should be directed to your client representative, Natalie Luciano at Ext. 1881.

Total Number of Pages 625

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Sample Reference List for SDG Number PTL06 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
6061430	PATTB	TB-1 Water 244267
6061431	PA16S	P-16-S Grab Water 244267
6061432	PA17D	P-17-D Grab Water 244267
6061433	PA18S	P-18-S Grab Water 244267
6061434	PA18D	P-18-D Grab Water 244267
6061435	PA19S	P-19-S Grab Water 244267
6061436	PA19D	P-19-D Grab Water 244267
6061437	PATP7	P-7 Grab Water 244267
6061438	PAT7A	P-7A Grab Water 244267
6061439	P-10A	P-10-A Grab Water 244267
6061440	PA15D	P-15-DD Grab Water 244266
6061441	PA15D	P-15-DD Matrix Spike Grab Water 244266
6061442	PA15D	P-15-DD Matrix Spike Dup Grab Water 244266
6061443	PA21S	P-21-S Grab Water 244266
6061444	PA20S	P-20-S Grab Water
6061445	PA20D	P-20-D Grab Water

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 121316 Group# 1207973 Sample # 6D61430-45

COC # 244267

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

(1) Client: MWH Americas, Inc. Acct. #:

Project Name/#: GE Parillas PWSID #:

Project Manager: Brandy R. Toth P.O.#:

Sampler: Noel Ortiz Diaz Quote #:

Name of state where samples were collected:

For Lab Use Only
FSC:
SCR#:

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

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix: Soil	Water (Check if Applicable: Potable, NPDES)	Other	(4) Total # of Containers	(5) Analyses Requested / Preservation Codes: H								Remarks	(6) Temperature of samples upon receipt (if requested)
TB-1	–	–				X		2	X									
P-16-S	8·12·10	10:12A	X			X		2	X									
P-17-D	8·12·10	12:01P	X			X		2	X									
P-18-S	8·13·10	8:16A	X			X		2	X									
P-18-D	8·13·10	9:07A	X			X		2	X									
P-19-S	8·13·10	10:26A	X			X		2	X									
P-19-D	8·13·10	11:21A	X			X		2	X									
P-7	8·16·10	8:46A	X			X		2	X									
P-7A	8·16·10	9:44A	X			X		2	X									
P-10-A	8·16·10	10:53A	X			X		2	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 #: Fax #:
E-mail address:

(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 additional volume:)
Internal COC Required? Yes / No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
x NOD	8·16·10	1:59P			
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: [signature]	8/17/10	9:15

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 12136 Group# 1207973 Sample # 6061430-45

COC # 244266

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

For Lab Use Only
FSC: _____
SCR#: _____

(1)
Client: MWH AMERICAS, INC. Acct. #: _____
Project Name/#: GE PATILLAS PWSID #: _____
Project Manager: Brandy R. Toth P.O.#: _____
Sampler: NOEL ORTIZ DIAZ Quote #: _____
Name of state where samples were collected: _____

(5) Analyses Requested — Preservation Codes: H

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

(6) Temperature of samples upon receipt (if requested)

(2) Sample Identification	Date Collected	Time Collected	(3) Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Other	(4) Total # of Containers	8260								Remarks
P-15-DD	8-16-10	12:56P	X			X		2	X								
P-21-S	8-16-10	1:53P	X			X		2	X								
MS/MSD	8-16-10	12:57P	X			X		2	X								MS/MSD

(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 #: _____ Fax #: _____
E-mail address: _____

(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 applicable chain)
Internal COC Required? Yes / No _____

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
X NOD	X 8-16-10	1:59P			
			[signature]	8/17/10	915

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Issued by Dept. 6042 Management
2102.05

Lancaster Laboratories

Environmental Sample Administration
Receipt Documentation Log

Client/Project: MWH

Date of Receipt: 8/17/10

Time of Receipt: 915

Source Code: 501

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	9993	4.4°C	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

- Received 1 Trip Blank broken
- Received 2 locations not on the COC P-20S @ 1327 on 8/13/10
  P-20D @ 1424 on 8/13/10

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
[illegible]	8/17/10	1345	Unpacking
Mary Beth Reed	8/18/10	0958	Place in Storage or Entry
			Entry
			Entry

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2174.05

Method Summary/Reference for SDG# PTL06_I

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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.

10903 8260 Std. Water Master

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 by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021

September 20, 2010

Project: GE Patillas Puerto Rico

Submittal Date: 08/17/2010
Group Number: 1207973
SDG: PTL06
PO Number: 1009213.010102
State of Sample Origin: PR

Client Sample Description	Lancaster Labs #	Collected
TB-1 Water 244267 GE Patillas	6061430	08/12/2010
P-16-S Grab Water 244267 GE Patillas	6061431	08/12/2010 10:12
P-17-D Grab Water 244267 GE Patillas	6061432	08/12/2010 12:01
P-18-S Grab Water 244267 GE Patillas	6061433	08/13/2010 08:16
P-18-D Grab Water 244267 GE Patillas	6061434	08/13/2010 09:07
P-19-S Grab Water 244267 GE Patillas	6061435	08/13/2010 10:26
P-19-D Grab Water 244267 GE Patillas	6061436	08/13/2010 11:21
P-7 Grab Water 244267 GE Patillas	6061437	08/16/2010 08:46
P-7A Grab Water 244267 GE Patillas	6061438	08/16/2010 09:44
P-10-A Grab Water 244267 GE Patillas	6061439	08/16/2010 10:53

PTL06 0006

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

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021

September 20, 2010

P-15-DD Grab Water 244266 GE Patillas	6061440	08/16/2010 12:56
P-15-DD Matrix Spike Grab Water 244266 GE Patillas	6061441	08/16/2010 12:57
P-15-DD Matrix Spike Dup Grab Water 244266 GE Patillas	6061442	08/16/2010 12:57
P-21-S Grab Water 244266 GE Patillas	6061443	08/16/2010 13:53
P-20-S Grab Water GE Patillas	6061444	08/13/2010 13:27
P-20-D Grab Water GE Patillas	6061445	08/13/2010 14:24

METHODOLOGY

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

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 Ext. 1881

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

PTL86 0007

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

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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Project: GE Patillas Puerto Rico
SDG: PTL06

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Analysis Name	Units	6061430 TB-1 Result	MDL	6061431 P-16-S Result	MDL	6061432 P-17-D 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	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	72	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

PTL06 0009

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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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	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

		6061433		6061434		6061435	
Analysis Name	Units	P-18-S	MDL	P-18-D	MDL	P-19-S	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	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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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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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	1 J	1	2 J	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	13	0.8	24	0.8	N.D.	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	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

		6061436		6061437		6061438	
Analysis Name	Units	P-19-D	MDL	P-7	MDL	P-7A	MDL
		Result		Result		Result	

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2425 New Holland Pike
PO Box 12425
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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	1 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	2 J	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	3 J	0.8	7	0.8	1 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
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

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

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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	2 J	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

		6061439		6061440		6061441	
Analysis Name	Units	P-10-A	MDL	P-15-DD	MDL	P-15-DD Matrix Spike	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	18	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	17	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	15	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	17	1
Bromoform	ug/l	N.D.	1	N.D.	1	15	1
Bromomethane	ug/l	N.D.	1	N.D.	1	14	1
2-Butanone	ug/l	N.D.	3	N.D.	3	120	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	18	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	19	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	18	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	19	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	15	1
Chloroform	ug/l	1 J	0.8	N.D.	0.8	19	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	15	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	18	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	17	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	16	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	16	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	17	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	17	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	17	1

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Lancaster, PA 17605-2425
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1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	17	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	14	2
1,1-Dichloroethane	ug/l	17	1	2 J	1	21	1
1,2-Dichloroethane	ug/l	2 J	1	N.D.	1	18	1
1,1-Dichloroethene	ug/l	660	8	51	0.8	67	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	19	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	18	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	17	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	19	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	19	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	17	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	16	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	16	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	18	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	18	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	18	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	80	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	18	2
Naphthalene	ug/l	N.D.	1	N.D.	1	16	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	18	1
Styrene	ug/l	N.D.	1	N.D.	1	18	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	17	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	17	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	18	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	16	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	20	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	18	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	18	1
Trichlorofluoromethane	ug/l	2 J	2	N.D.	2	15	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	16	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	18	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	18	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	15	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	36	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	18	0.8

		6061442		6061443		6061444	
		P-15-DD					
		Matrix Spike					
Analysis Name	Units	Dup	MDL	P-21-S	MDL	P-20-S	MDL
		Result		Result		Result	
Acetone	ug/l	130	6	N.D.	6	N.D.	6

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

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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	18	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	19	1	N.D.	1	N.D.	1
Bromoform	ug/l	16	1	N.D.	1	N.D.	1
Bromomethane	ug/l	17	1	N.D.	1	N.D.	1
2-Butanone	ug/l	130	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	19	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	20	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	20	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	21	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	19	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	19	1	N.D.	1	N.D.	1
Chloroform	ug/l	20	0.8	1 J	0.8	N.D.	0.8
Chloromethane	ug/l	17	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	17	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	18	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	18	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	16	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	23	1	17	1	N.D.	1
1,2-Dichloroethane	ug/l	20	1	2 J	1	N.D.	1
1,1-Dichloroethene	ug/l	71	0.8	610	8	N.D.	0.8
cis-1,2-Dichloroethene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	21	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	20	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	21	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	21	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	18	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	18	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	18	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	20	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	20	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	20	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	85	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	19	2	N.D.	2	N.D.	2
Naphthalene	ug/l	18	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

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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1,1,1,2-Tetrachloroethane	ug/l	19	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	18	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	20	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	18	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	18	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	19	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	20	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	18	2	3 J	2	N.D.	2
1,2,3-Trichloropropane	ug/l	18	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	20	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	20	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	18	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	39	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	20	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	6061445 P-20-D 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
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	0.8 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

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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1,1-Dichloroethane	ug/l	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1
1,1-Dichloroethene	ug/l	20	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
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

PTL06 0817

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

Analysis Report

Lancaster Laboratories

CAT No.	Analysis Name	Method	Trial ID	Batch	Analysis Date/Time	Analyst	Dilution
6061430	**TB-1 Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 1748	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 1748	Sara E Johnson	1
6061431	**P-16-S Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/25/10 0028	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/25/10 0028	Sara E Johnson	1
6061432	**P-17-D Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2108	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2108	Sara E Johnson	1
6061433	**P-18-S Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2128	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2128	Sara E Johnson	1
6061434	**P-18-D Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2148	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2148	Sara E Johnson	1
6061435	**P-19-S Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2208	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2208	Sara E Johnson	1
6061436	**P-19-D Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2228	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2228	Sara E Johnson	1
6061437	**P-7 Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2248	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2248	Sara E Johnson	1
6061438	**P-7A Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2308	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2308	Sara E Johnson	1
6061439	**P-10-A Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2328	Sara E Johnson	1
10903	Volatiles by 8260	SW-846 8260B	1	E102371AA	8/25/10 1115	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2328	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E102371AA	8/25/10 1115	Jason M Long	10
6061440	**P-15-DD Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 1908	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 1908	Sara E Johnson	1
6061441	**P-15-DD Matrix Spike Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 1928	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 1928	Sara E Johnson	1
6061442	**P-15-DD Matrix Spike Dup Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 1948	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 1948	Sara E Johnson	1
6061443	**P-21-S Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2008	Sara E Johnson	1

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

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CAT No.	Analysis Name	Method	Trial ID	Batch	Analysis Date/Time	Analyst	Dilution
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/25/10 0128	Sara E Johnson	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2008	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E102362AA	8/25/10 0128	Sara E Johnson	10
6061444	**P-20-S Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2028	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2028	Sara E Johnson	1
6061445	**P-20-D Grab Water**						
10903	Volatiles by 8260	SW-846 8260B	1	E102362AA	8/24/10 2048	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E102362AA	8/24/10 2048	Sara E Johnson	1

PTL06 0019

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

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Client Name: MWH Americas, Inc. Group Number: 1207973

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: E102362AA	Sample number(s): 6061430-6061445							
Acetone	N.D.	6.	ug/l	180		49-234		
Benzene	N.D.	0.5	ug/l	99		79-120		
Bromobenzene	N.D.	1.	ug/l	96		80-120		
Bromochloromethane	N.D.	1.	ug/l	95		80-120		
Bromodichloromethane	N.D.	1.	ug/l	95		80-120		
Bromoform	N.D.	1.	ug/l	93		61-120		
Bromomethane	N.D.	1.	ug/l	86		44-120		
2-Butanone	N.D.	3.	ug/l	143		66-151		
n-Butylbenzene	N.D.	1.	ug/l	96		74-120		
sec-Butylbenzene	N.D.	1.	ug/l	101		78-120		
tert-Butylbenzene	N.D.	1.	ug/l	99		80-120		
Carbon Tetrachloride	N.D.	1.	ug/l	102		75-123		
Chlorobenzene	N.D.	0.8	ug/l	99		80-120		
Chloroethane	N.D.	1.	ug/l	91		49-129		
Chloroform	N.D.	0.8	ug/l	100		77-122		
Chloromethane	N.D.	1.	ug/l	84		60-129		
2-Chlorotoluene	N.D.	1.	ug/l	99		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	97		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	124*		66-120		
Dibromochloromethane	N.D.	1.	ug/l	94		80-120		
1,2-Dibromoethane	N.D.	1.	ug/l	99		80-120		
Dibromomethane	N.D.	1.	ug/l	100		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	97		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	98		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	96		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	76		47-120		
1,1-Dichloroethane	N.D.	1.	ug/l	104		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	103		70-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	104		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	98		78-120		
1,3-Dichloropropane	N.D.	1.	ug/l	99		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	103		77-124		
1,1-Dichloropropene	N.D.	1.	ug/l	102		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	93		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.

PTL06 0020

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trans-1,3-Dichloropropene	N.D.	1.	ug/l	95		79-120		
Ethylbenzene	N.D.	0.8	ug/l	100		79-120		
Hexachlorobutadiene	N.D.	2.	ug/l	91		58-120		
Isopropylbenzene	N.D.	1.	ug/l	100		77-120		
p-Isopropyltoluene	N.D.	1.	ug/l	98		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	102		76-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	119		70-121		
Methylene Chloride	N.D.	2.	ug/l	100		80-120		
Naphthalene	N.D.	1.	ug/l	105		62-120		
n-Propylbenzene	N.D.	1.	ug/l	102		80-120		
Styrene	N.D.	1.	ug/l	98		80-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	93		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	106		71-120		
Tetrachloroethene	N.D.	0.8	ug/l	99		80-121		
Toluene	N.D.	0.7	ug/l	99		79-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	95		65-120		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	92		67-120		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	105		75-127		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	101		80-120		
Trichloroethene	N.D.	1.	ug/l	99		80-120		
Trichlorofluoromethane	N.D.	2.	ug/l	85		64-129		
1,2,3-Trichloropropane	N.D.	1.	ug/l	112		80-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	99		74-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	99		75-120		
Vinyl Chloride	N.D.	1.	ug/l	88		65-125		
m+p-Xylene	N.D.	0.8	ug/l	99		80-120		
o-Xylene	N.D.	0.8	ug/l	98		80-120		

Batch number: E102371AA Sample number(s): 6061439

1,1-Dichloroethene	N.D.	0.8	ug/l	95	90	74-123	6	30

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: E102362AA	Sample number(s): 6061430-6061445 UNSPK: 6061440								
Acetone	85	89	52-139	5	30				
Benzene	92	100	80-126	9	30				
Bromobenzene	86	95	82-115	10	30				
Bromochloromethane	77*	88	83-123	13	30				
Bromodichloromethane	87	95	78-125	9	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.

PTL06 0021

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Bromoform	75	82	60-121	8	30
Bromomethane	72	86	38-149	18	30
2-Butanone	81	87	57-138	7	30
n-Butylbenzene	89	97	73-128	9	30
sec-Butylbenzene	93	100	79-125	8	30
tert-Butylbenzene	88	98	81-121	11	30
Carbon Tetrachloride	97	106	81-138	8	30
Chlorobenzene	90	97	87-124	8	30
Chloroethane	77	93	51-145	20	30
Chloroform	94	101	81-134	7	30
Chloromethane	73	86	67-154	17	30
2-Chlorotoluene	88	96	82-118	9	30
4-Chlorotoluene	87	96	84-122	9	30
1,2-Dibromo-3-chloropropane	80	86	66-121	7	30
Dibromochloromethane	82	89	74-116	8	30
1,2-Dibromoethane	82	89	77-116	7	30
Dibromomethane	84	93	83-119	10	30
1,2-Dichlorobenzene	86	96	84-119	11	30
1,3-Dichlorobenzene	87	97	86-121	11	30
1,4-Dichlorobenzene	87	96	85-121	11	30
Dichlorodifluoromethane	68	78	52-129	14	30
1,1-Dichloroethane	93	104	84-129	10	30
1,2-Dichloroethane	92	101	66-141	10	30
1,1-Dichloroethene	77*	98	85-142	6	30
cis-1,2-Dichloroethene	92	99	85-125	7	30
trans-1,2-Dichloroethene	95	105	87-126	10	30
1,2-Dichloropropane	90	98	83-124	8	30
1,3-Dichloropropane	86	94	81-120	9	30
2,2-Dichloropropane	97	105	81-135	8	30
1,1-Dichloropropene	97	105	86-137	8	30
cis-1,3-Dichloropropene	83	90	75-125	8	30
trans-1,3-Dichloropropene	82	91	74-119	10	30
Ethylbenzene	91	98	71-134	7	30
Hexachlorobutadiene	82	92	56-134	12	30
Isopropylbenzene	92	101	75-128	9	30
p-Isopropyltoluene	90	99	76-123	10	30
Methyl Tertiary Butyl Ether	91	98	72-126	8	30
4-Methyl-2-pentanone	80	85	63-123	7	30
Methylene Chloride	89	96	79-120	7	30
Naphthalene	81	88	52-125	9	30
n-Propylbenzene	92	101	74-134	9	30
Styrene	88	96	78-125	9	30
1,1,1,2-Tetrachloroethane	84	93	82-119	10	30
1,1,2,2-Tetrachloroethane	83	88	73-119	7	30
Tetrachloroethene	90	98	80-128	8	30
Toluene	92	100	80-125	9	30
1,2,3-Trichlorobenzene	82	90	69-119	10	30
1,2,4-Trichlorobenzene	81	91	70-124	12	30
1,1,1-Trichloroethane	102	111	80-143	8	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.

PTL06 0022

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1,1,2-Trichloroethane	88	96	77-124	9	30
Trichloroethene	92	101	88-133	9	30
Trichlorofluoromethane	75	90	73-152	18	30
1,2,3-Trichloropropane	82	88	76-118	8	30
1,2,4-Trimethylbenzene	89	98	72-130	10	30
1,3,5-Trimethylbenzene	90	98	72-131	9	30
Vinyl Chloride	76	91	66-133	17	30
m+p-Xylene	90	98	79-125	8	30
o-Xylene	89	98	79-125	9	30

Batch number: E102371AA Sample number(s): 6061439 UNSPK: P061820

1,1-Dichloroethene	105	85-142

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: Volatiles by 8260
Batch number: E102362AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6061430	99	100	101	100
6061431	101	101	100	99
6061432	101	101	101	100
6061433	99	100	99	99
6061434	100	102	100	99
6061435	98	101	101	99
6061436	101	104	101	99
6061437	100	100	100	101
6061438	99	101	100	99
6061439	100	102	100	99
6061440	100	102	101	100
6061441	100	103	102	101
6061442	99	100	100	101
6061443	101	103	100	99
6061444	99	102	100	101
6061445	100	99	101	100
Blank	101	101	101	101
LCS	99	100	101	100
MS	100	103	102	101
MSD	99	100	100	101
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.

PTL06 0023

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Analysis Name: 8260 Master Scan (water)
Batch number: E102371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	100	101	100	100
LCS	99	100	101	101
LCSD	101	99	101	101
MS	99	99	101	101
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.

PTL06 0024

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.

6061430 TB-1 Water

6061431 P-16-S Grab Water

6061432 P-17-D Grab Water

6061433 P-18-S Grab Water

6061434 P-18-D Grab Water

6061435 P-19-S Grab Water

6061436 P-19-D Grab Water

6061437 P-7 Grab Water

6061438 P-7A Grab Water

6061439 P-10-A Grab Water

6061440 P-15-DD Grab Water

6061441 P-15-DD Matrix Spike Grab Water

PTL06 0025

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Lancaster Laboratories

6061442 P-15-DD Matrix Spike Dup Grab Water

6061443 P-21-S Grab Water

6061444 P-20-S Grab Water

6061445 P-20-D Grab Water

PTL06 0026

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Volatiles by GC/MS Data

Case Narrative
Conformance/Nonconformance Summary

Lancaster Laboratories
Where quality is a science.

CASE NARRATIVE
Client: MWH Americas, Inc.
SDG#: PTL06

LANCASTER LABORATORIES
VOLATILES BY GC/MS

SAMPLE NUMBER(S):

LL #'s	Sample Code	Matrix Water	Comments
6061430	PATTB	X	Client Blank
6061431	PA16S	X	
6061432	PA17D	X	
6061433	PA18S	X	
6061434	PA18D	X	
6061435	PA19S	X	
6061436	PA19D	X	
6061437	PATP7	X	
6061438	PAT7A	X	
6061439	P-10A	X	
6061439	P-10ADL	X	10 X Dilution
6061440	PA15D	X	Unspiked
6061441	PA15DMS	X	Matrix Spike
6061442	PA15DMSD	X	Matrix Spike Dup
6061443	PA21S	X	
6061443	PA21SDL	X	10 X Dilution
6061444	PA20S	X	
6061445	PA20D	X	

LABORATORY SUBMITTED QC:

VBLKE06	VBLKE06	X	Method Blank
VBLKE07	VBLKE07	X	Method Blank
LCSE06	LCSE06	X	Lab Control Sample
LCSE07	LCSE07	X	Lab Control Sample
LCDE07	LCDE07	X	Lab Control Sample Dup

SAMPLE PREPARATION:

No sample preparation was necessary for the VOA fraction.

PTL06 0029

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.

The percent recovery for 1,1-dichloroethene and bromochloromethane is outside QC limits in the MS. The associated LCS meets recovery criteria, indicating a matrix effect.

The percent recovery exceeded the maximum recovery limit for 1,2-dibromo-3-chloropropane in LCSE06. Since a positive bias is observed and the compound is not detected in the associated samples, no further action is needed.

All other QC is within specifications.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Case Narrative reviewed and approved by:

Dana M. Kauffman Date 9-5-10
Manager, Data Deliverables

PTL86 8838

QC Summary

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE06

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: VBLKE06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP15648.i/10aug24b.b/eg24b51.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 08/24/10

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
106-99-0	1,3-Butadiene	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
109-66-0	n-Pentane	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
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
540-59-0	1,2-Dichloroethene (total)	0.8	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

PTL86 0032

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE06

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: VBLKE06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP15648.i/10aug24b.b/eg24b51.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 08/24/10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/L	Q
594-20-7	2,2-Dichloropropane	1	U
107-12-0	Propionitrile	30	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
80-62-6	Methyl Methacrylate	1	U
123-91-1	1,4-Dioxane	70	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

PTL86 0033

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE06

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: VBLKE06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP15648.i/10aug24b.b/eg24b51.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 08/24/10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
79-00-5	1,1,2-Trichloroethane		0.8	U
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
1330-20-7	Xylene (Total)		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
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

PTL86 2834

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE06

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: VBLKE06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP15648.i/10aug24b.b/eg24b51.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 08/24/10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/L	Q
106-46-7	1,4-Dichlorobenzene	1	U
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
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	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

PTL86 0035

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE07

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: VBLKE07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP15648.i/10aug25a.b/eg25b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 08/25/10

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
106-99-0	1,3-Butadiene	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-43-4	Dichlorofluoromethane	2	U
75-69-4	Trichlorofluoromethane	2	U
109-66-0	n-Pentane	2	U
60-29-7	Ethyl Ether	2	U
354-23-4	Freon 123a	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
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
540-59-0	1,2-Dichloroethene (total)	0.8	U
637-92-3	Ethyl t-Butyl Ether	0.8	U

PTL86 0036

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE07

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: VBLKE07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP15648.i/10aug25a.b/eg25b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 08/25/10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/L	Q
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
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
80-62-6	Methyl Methacrylate	1	U
123-91-1	1,4-Dioxane	70	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

PTL06 0037

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE07

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: VBLKE07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP15648.i/10aug25a.b/eg25b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 08/25/10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/L	Q
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
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
1330-20-7	Xylene (Total)	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
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

PTL86 8038

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE07

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: VBLKE07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP15648.i/10aug25a.b/eg25b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 08/25/10

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MDL ug/L	Q
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
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
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	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

PTL86 0039

FORM I VOA

2A

WATER VOLATILE SURROGATE RECOVERY

Lab Name: Lancaster Laboratories Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: PTL06

	LAB SAMPLE ID	S1 (DBF) #	S2 (DCA) #	S3 (TOL) #	S4 (BFB) #	TOT OUT
01	6061430	99	100	101	100	0
02	6061431	101	101	100	99	0
03	6061432	101	101	101	100	0
04	6061433	99	100	99	99	0
05	6061434	100	102	100	99	0
06	6061435	98	101	101	99	0
07	6061436	101	104	101	99	0
08	6061437	100	100	100	101	0
09	6061438	99	101	100	99	0
10	6061439	100	102	100	99	0
11	6061439DL	100	104	101	100	0
12	6061440	100	102	101	100	0
13	6061441MS	100	103	102	101	0
14	6061442MSD	99	100	100	101	0
15	6061443	101	103	100	99	0
16	6061443DL	99	101	102	101	0
17	6061444	99	102	100	101	0
18	6061445	100	99	101	100	0
19	VBLKE06	101	101	101	101	0
20	VBLKE07	100	101	100	100	0
21	LCDE07	101	99	101	101	0
22	LCSE07	99	100	101	101	0
23	LCSE06	99	100	101	100	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 QC limits

D sample diluted, values outside of QC limits

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

Unspiked: eg24s55.d
PA15D 6061440
Method: SW-846 8260B
Instrument: HP15648

Matrix Spike: eg24s56.d
PA15DMS 6061441
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: eg24s57.d
PA15DMSD 6061442
Batch: E102362AA

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	13.6	15.6	68	78	52-129	YES	14	30
Chloromethane	20.0	20.0	ND	14.6	17.3	73	86	67-154	YES	17	30
Vinyl Chloride	20.0	20.0	ND	15.3	18.1	76	91	66-133	YES	17	30
Bromomethane	20.0	20.0	ND	14.4	17.2	72	86	38-149	YES	18	30
Chloroethane	20.0	20.0	ND	15.3	18.7	77	93	51-145	YES	20	30
Trichlorofluoromethane	20.0	20.0	ND	15.0	17.9	75	90	73-152	YES	18	30
1,1-Dichloroethene	20.0	20.0	51.3	66.6	70.8	77	98	85-142	NO	6	30
Acetone	150.0	150.0	ND	128	134	85	89	52-139	YES	5	30
Methylene Chloride	20.0	20.0	ND	17.8	19.1	89	96	79-120	YES	7	30
trans-1,2-Dichloroethene	20.0	20.0	ND	19.1	21.0	95	105	87-126	YES	10	30
Methyl Tertiary Butyl Ether	20.0	20.0	ND	18.1	19.7	91	98	72-126	YES	8	30
1,1-Dichloroethane	20.0	20.0	2.03	20.7	22.8	93	104	84-129	YES	10	30
cis-1,2-Dichloroethene	20.0	20.0	ND	18.5	19.8	92	99	85-125	YES	7	30
2-Butanone	150.0	150.0	ND	122	131	81	87	57-138	YES	7	30
2,2-Dichloropropane	20.0	20.0	ND	19.4	21.0	97	105	81-135	YES	8	30
Bromochloromethane	20.0	20.0	ND	15.3	17.5	77	88	83-123	NO	13	30
Chloroform	20.0	20.0	ND	18.8	20.2	94	101	81-134	YES	7	30
1,1,1-Trichloroethane	20.0	20.0	ND	20.3	22.1	102	111	80-143	YES	8	30
1,1-Dichloropropene	20.0	20.0	ND	19.4	21.0	97	105	86-137	YES	8	30
Carbon Tetrachloride	20.0	20.0	ND	19.4	21.1	97	106	81-138	YES	9	30
Benzene	20.0	20.0	ND	18.4	20.0	92	100	80-126	YES	9	30
1,2-Dichloroethane	20.0	20.0	ND	18.3	20.2	92	101	66-141	YES	10	30
Trichloroethene	20.0	20.0	ND	18.4	20.1	92	101	88-133	YES	9	30
1,2-Dichloropropane	20.0	20.0	ND	18.1	19.6	90	98	83-124	YES	8	30
Dibromomethane	20.0	20.0	ND	16.9	18.7	84	93	83-119	YES	10	30
Bromodichloromethane	20.0	20.0	ND	17.4	19.1	87	95	78-125	YES	9	30
cis-1,3-Dichloropropene	20.0	20.0	ND	16.7	18.0	83	90	75-125	YES	8	30
4-Methyl-2-Pentanone	100.0	100.0	ND	79.6	85.2	80	85	63-123	YES	7	30
Toluene	20.0	20.0	ND	18.4	20.0	92	100	80-125	YES	9	30
trans-1,3-Dichloropropene	20.0	20.0	ND	16.5	18.2	82	91	74-119	YES	10	30
1,1,2-Trichloroethane	20.0	20.0	ND	17.6	19.1	88	96	77-124	YES	9	30
Tetrachloroethene	20.0	20.0	ND	18.1	19.6	90	98	80-128	YES	8	30
1,3-Dichloropropane	20.0	20.0	ND	17.2	18.7	86	94	81-120	YES	9	30
Dibromochloromethane	20.0	20.0	ND	16.4	17.9	82	89	74-116	YES	8	30
1,2-Dibromoethane	20.0	20.0	ND	16.5	17.8	82	89	77-116	YES	7	30
Chlorobenzene	20.0	20.0	ND	18.0	19.4	90	97	87-124	YES	8	30
1,1,1,2-Tetrachloroethane	20.0	20.0	ND	16.8	18.6	84	93	82-119	YES	10	30
Ethylbenzene	20.0	20.0	ND	18.2	19.6	91	98	71-134	YES	7	30
m+p-Xylene	40.0	40.0	ND	36.0	39.1	90	98	79-125	YES	8	30
o-Xylene	20.0	20.0	ND	17.9	19.5	89	98	79-125	YES	9	30
Styrene	20.0	20.0	ND	17.6	19.2	88	96	78-125	YES	9	30
Bromoform	20.0	20.0	ND	15.1	16.3	75	82	60-121	YES	8	30
Isopropylbenzene	20.0	20.0	ND	18.4	20.1	92	101	75-128	YES	9	30
1,1,2,2-Tetrachloroethane	20.0	20.0	ND	16.6	17.7	83	88	73-119	YES	7	30
Bromobenzene	20.0	20.0	ND	17.2	19.0	86	95	82-115	YES	10	30
1,2,3-Trichloropropane	20.0	20.0	ND	16.3	17.6	82	88	76-118	YES	8	30
n-Propylbenzene	20.0	20.0	ND	18.4	20.2	92	101	74-134	YES	9	30
2-Chlorotoluene	20.0	20.0	ND	17.6	19.3	88	96	82-118	YES	9	30
1,3,5-Trimethylbenzene	20.0	20.0	ND	18.0	19.7	90	98	72-131	YES	9	30
4-Chlorotoluene	20.0	20.0	ND	17.5	19.1	87	96	84-122	YES	9	30
tert-Butylbenzene	20.0	20.0	ND	17.6	19.5	88	98	81-121	YES	11	30
1,2,4-Trimethylbenzene	20.0	20.0	ND	17.8	19.5	89	98	72-130	YES	10	30
sec-Butylbenzene	20.0	20.0	ND	18.5	20.0	93	100	79-125	YES	8	30
p-Isopropyltoluene	20.0	20.0	ND	17.9	19.7	90	99	76-123	YES	10	30
1,3-Dichlorobenzene	20.0	20.0	ND	17.4	19.4	87	97	86-121	YES	11	30
1,4-Dichlorobenzene	20.0	20.0	ND	17.4	19.3	87	96	85-121	YES	11	30
n-Butylbenzene	20.0	20.0	ND	17.8	19.5	89	97	73-128	YES	9	30
1,2-Dichlorobenzene	20.0	20.0	ND	17.2	19.2	86	96	84-119	YES	11	30

N/C = Could not calculate

Lab Chronicle: _____ Entry by _____

_____ Ver. by _____

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

Unspiked: eg24s55.d
PA15D 6061440
Method: SW-846 8260B
Instrument: HP15648

Matrix Spike: eg24s56.d
PA15DMS 6061441
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: eg24s57.d
PA15DMSD 6061442
Batch: E102362AA

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-Dibromo-3-Chloropropane	20.0	20.0	ND	16.0	17.2	80	86	66-121	YES	7	30
1,2,4-Trichlorobenzene	20.0	20.0	ND	16.3	18.3	81	91	70-124	YES	12	30
Hexachlorobutadiene	20.0	20.0	ND	16.3	18.5	82	92	56-134	YES	12	30
Naphthalene	20.0	20.0	ND	16.1	17.6	81	88	52-125	YES	9	30
1,2,3-Trichlorobenzene	20.0	20.0	ND	16.4	18.1	82	90	69-119	YES	10	30

N/C = Could not calculate

PT1.06 0042

Lab Chronicle: _____ Ent. by ____

_____ Ver. by ____

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

File: eg24l51.d
Inst: HP15648
Dilution Factor: 1.0

Injected: 08/24/10 at 16:49
Sample: LCSE06

Method: SW-846 8260B
Matrix/Level: WL
Batch: E102362AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
trans-1,3-Dichloropropene	20.00	19.03	95	79-120	YES
Ethyl Methacrylate	20.00	23.50	118	70-120	YES
1,1,2-Trichloroethane	20.00	20.18	101	80-120	YES
Tetrachloroethene	20.00	19.86	99	80-121	YES
1,3-Dichloropropane	20.00	19.85	99	80-120	YES
2-Hexanone	100.00	135.65	136	65-136	YES
Dibromochloromethane	20.00	18.80	94	80-120	YES
1,2-Dibromoethane	20.00	19.74	99	80-120	YES
Chlorobenzene	20.00	19.72	99	80-120	YES
1,1,1,2-Tetrachloroethane	20.00	18.67	93	80-120	YES
Ethylbenzene	20.00	20.04	100	79-120	YES
m+p-Xylene	40.00	39.63	99	80-120	YES
Xylene (Total)	60.00	59.31	99	80-120	YES
o-Xylene	20.00	19.67	98	80-120	YES
Styrene	20.00	19.67	98	80-120	YES
Bromoform	20.00	18.66	93	61-120	YES
Isopropylbenzene	20.00	19.94	100	77-120	YES
Cyclohexanone	500.00	491.62	98	54-128	YES
1,1,2,2-Tetrachloroethane	20.00	21.14	106	71-120	YES
trans-1,4-Dichloro-2-Butene	100.00	109.71	110	36-144	YES
Bromobenzene	20.00	19.29	96	80-120	YES
1,2,3-Trichloropropane	20.00	22.31	112	80-120	YES
n-Propylbenzene	20.00	20.34	102	80-120	YES
2-Chlorotoluene	20.00	19.70	99	80-120	YES
1,3,5-Trimethylbenzene	20.00	19.84	99	75-120	YES
4-Chlorotoluene	20.00	19.45	97	80-120	YES
tert-Butylbenzene	20.00	19.82	99	80-120	YES
Pentachloroethane	20.00	18.48	92	76-120	YES
1,2,4-Trimethylbenzene	20.00	19.80	99	74-120	YES
sec-Butylbenzene	20.00	20.17	101	78-120	YES
p-Isopropyltoluene	20.00	19.52	98	80-120	YES
1,3-Dichlorobenzene	20.00	19.69	98	80-120	YES
1,4-Dichlorobenzene	20.00	19.27	96	80-120	YES
1,2,3-Trimethylbenzene	20.00	19.88	99	80-120	YES
Benzyl Chloride	20.00	19.55	98	69-120	YES
1,3-Diethylbenzene	20.00	19.91	100	80-120	YES
1,4-Diethylbenzene	20.00	19.88	99	77-120	YES
n-Butylbenzene	20.00	19.28	96	74-120	YES
1,2-Dichlorobenzene	20.00	19.43	97	80-120	YES
1,2-Diethylbenzene	20.00	19.85	99	80-120	YES
1,2-Dibromo-3-Chloropropane	20.00	24.89	124	66-120	NO
1,2,4-Trichlorobenzene	20.00	18.42	92	67-120	YES
Hexachlorobutadiene	20.00	18.11	91	58-120	YES
Naphthalene	20.00	20.91	105	62-120	YES
1,2,3-Trichlorobenzene	20.00	19.08	95	65-120	YES
2-Methylnaphthalene	20.00	20.20	101	36-120	YES
Diethylbenzene (total)	60.00	59.64	99	80-120	YES

N/C = Could not calculate PTL86 8843

Lab Chronicle: _____ Ent. by _____

_____ Ver. by _____

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

File: eg24l51.d
Inst: HP15648
Dilution Factor: 1.0

Injected: 08/24/10 at 16:49
Sample: LCSE06

Method: SW-846 8260B
Matrix/Level: WL
Batch: E102362AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Dichlorodifluoromethane	20.00	15.22	76	47-120	YES
Chloromethane	20.00	16.86	84	60-129	YES
1,3-Butadiene	20.00	19.43	97	63-136	YES
Vinyl Chloride	20.00	17.66	88	65-125	YES
Bromomethane	20.00	17.14	86	44-120	YES
Chloroethane	20.00	18.14	91	49-129	YES
Trichlorofluoromethane	20.00	16.96	85	64-129	YES
n-Pentane	20.00	18.73	94	36-127	YES
Ethyl Ether	20.00	18.14	91	23-144	YES
Acrolein	150.00	132.97	89	43-135	YES
1,1-Dichloroethene	20.00	20.79	104	74-123	YES
Freon 113	20.00	21.01	105	69-128	YES
Acetone	150.00	269.61	180	49-234	YES
Methyl Iodide	20.00	20.73	104	71-122	YES
Carbon Disulfide	20.00	21.29	106	62-120	YES
Allyl Chloride	20.00	18.85	94	65-140	YES
Methyl Acetate	20.00	24.38	122	55-162	YES
Methylene Chloride	20.00	19.93	100	80-120	YES
t-Butyl Alcohol	200.00	207.05	104	62-129	YES
Acrylonitrile	100.00	118.11	118	67-120	YES
trans-1,2-Dichloroethene	20.00	20.47	102	80-120	YES
Methyl Tertiary Butyl Ether	20.00	20.40	102	76-120	YES
n-Hexane	20.00	20.17	101	61-132	YES
1,2-Dichloroethene (total)	40.00	40.51	101	80-120	YES
1,1-Dichloroethane	20.00	20.71	104	79-120	YES
di-Isopropyl Ether	20.00	20.09	100	71-124	YES
2-Chloro-1,3-Butadiene	20.00	23.51	118	73-136	YES
Ethyl t-Butyl Ether	20.00	20.07	100	76-120	YES
cis-1,2-Dichloroethene	20.00	20.04	100	80-120	YES
2-Butanone	150.00	214.38	143	66-151	YES
2,2-Dichloropropane	20.00	20.63	103	77-124	YES
Propionitrile	150.00	153.13	102	69-131	YES
Methacrylonitrile	150.00	183.84	123	80-120	NO
Bromochloromethane	20.00	18.94	95	80-120	YES
Tetrahydrofuran	100.00	97.79	98	64-139	YES
Chloroform	20.00	19.92	100	77-122	YES
1,1,1-Trichloroethane	20.00	21.06	105	75-127	YES
Cyclohexane	20.00	21.53	108	65-125	YES
1,1-Dichloropropene	20.00	20.40	102	80-120	YES
Carbon Tetrachloride	20.00	20.32	102	75-123	YES
Isobutyl Alcohol	500.00	495.82	99	70-128	YES
Benzene	20.00	19.87	99	79-120	YES
1,2-Dichloroethane	20.00	20.53	103	70-130	YES
t-Amyl Methyl Ether	20.00	19.97	100	77-120	YES
n-Heptane	20.00	19.63	98	53-132	YES
n-Butanol	1000.00	880.65	88	63-120	YES
Trichloroethene	20.00	19.86	99	80-120	YES
1,2-Dichloropropane	20.00	19.64	98	78-120	YES
Methylcyclohexane	20.00	19.71	99	71-132	YES
Methyl Methacrylate	20.00	19.71	99	72-120	YES
Dibromomethane	20.00	19.91	100	80-120	YES
1,4-Dioxane	500.00	415.91	83	51-129	YES
Bromodichloromethane	20.00	19.05	95	80-120	YES
2-Nitropropane	20.00	23.07	115	39-134	YES
2-Chloroethyl Vinyl Ether	20.00	20.41	102	56-129	YES
cis-1,3-Dichloropropene	20.00	18.62	93	80-120	YES
4-Methyl-2-Pentanone	100.00	118.60	119	70-121	YES
Toluene	20.00	19.74	99	79-120	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by PTL86 0044

_____ Ver. by _____

Lancaster Laboratories, Inc.
Volatiles Laboratory Control Sample Recoveries

LCS: eg25l01.d
Client ID: LCSE07
Method: SW-846 8260B
Instrument: HP15648

LCS Duplicate: eg25l02.d
Client ID: LCDE07
Matrix/Level: WL
Dilution Factor: 1.0

Batch: E102371AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCSD CONC UG/L	LCS REC %	LCSD REC %	Range LOWER-UPPER	RPD %	RPD MAX	INSPEC
Dichlorodifluoromethane	20.00	13.67	13.01	68	65	47-120	5	30	YES
Chloromethane	20.00	15.14	14.48	76	72	60-129	4	30	YES
1,3-Butadiene	20.00	16.01	15.18	80	76	63-136	5	30	YES
Vinyl Chloride	20.00	15.53	14.53	78	73	65-125	7	30	YES
Bromomethane	20.00	15.64	14.85	78	74	44-120	5	30	YES
Chloroethane	20.00	16.43	15.56	82	78	49-129	5	30	YES
Dichlorofluoromethane	20.00	18.97	17.88	95	89	56-128	6	30	YES
Trichlorofluoromethane	20.00	15.40	14.71	77	74	64-129	5	30	YES
n-Pentane	20.00	1.63	1.55	8	8	36-127	5	30	NO
Ethyl Ether	20.00	16.51	15.71	83	79	23-144	5	30	YES
Freon 123a	20.00	19.33	17.96	97	90	63-125	7	30	YES
Acrolein	150.00	123.88	120.86	83	81	43-135	2	30	YES
1,1-Dichloroethene	20.00	19.07	17.97	95	90	74-123	6	30	YES
Freon 113	20.00	19.21	18.26	96	91	69-128	5	30	YES
Acetone	150.00	155.60	144.84	104	97	49-234	7	30	YES
Methyl Iodide	20.00	19.20	18.22	96	91	71-122	5	30	YES
Carbon Disulfide	20.00	19.59	18.48	98	92	62-120	6	30	YES
Allyl Chloride	20.00	17.11	15.92	86	80	65-140	7	30	YES
Methyl Acetate	20.00	16.61	15.74	83	79	55-162	5	30	YES
Methylene Chloride	20.00	18.81	17.92	94	90	80-120	5	30	YES
t-Butyl Alcohol	200.00	189.66	187.13	95	94	62-129	1	30	YES
Acrylonitrile	100.00	81.39	77.60	81	78	67-120	5	30	YES
trans-1,2-Dichloroethene	20.00	18.98	17.84	95	89	80-120	6	30	YES
Methyl Tertiary Butyl Ether	20.00	18.85	18.14	94	91	76-120	4	30	YES
n-Hexane	20.00	18.75	18.00	94	90	61-132	4	30	YES
1,2-Dichloroethene (total)	40.00	37.22	35.33	93	88	80-120	5	30	YES
1,1-Dichloroethane	20.00	19.05	18.24	95	91	79-120	4	30	YES
di-Isopropyl Ether	20.00	19.11	18.26	96	91	71-124	5	30	YES
2-Chloro-1,3-Butadiene	20.00	21.48	20.47	107	102	73-136	5	30	YES
Ethyl t-Butyl Ether	20.00	19.16	18.34	96	92	76-120	4	30	YES
cis-1,2-Dichloroethene	20.00	18.25	17.49	91	87	80-120	4	30	YES
2-Butanone	150.00	135.49	129.99	90	87	66-151	4	30	YES
2,2-Dichloropropane	20.00	19.07	17.96	95	90	77-124	6	30	YES
Propionitrile	150.00	135.71	135.27	90	90	69-131	0	30	YES
Methacrylonitrile	150.00	136.98	132.13	91	88	80-120	4	30	YES
Bromochloromethane	20.00	17.33	16.65	87	83	80-120	4	30	YES
Tetrahydrofuran	100.00	86.56	85.72	87	86	64-139	1	30	YES
Chloroform	20.00	18.79	17.95	94	90	77-122	5	30	YES
1,1,1-Trichloroethane	20.00	19.39	18.66	97	93	75-127	4	30	YES
Cyclohexane	20.00	19.50	18.81	97	94	65-125	4	30	YES
1,1-Dichloropropene	20.00	18.86	17.95	94	90	80-120	5	30	YES
Carbon Tetrachloride	20.00	19.02	17.83	95	89	75-123	6	30	YES
Isobutyl Alcohol	500.00	452.25	449.73	90	90	70-128	1	30	YES
Benzene	20.00	18.64	17.66	93	88	79-120	5	30	YES
1,2-Dichloroethane	20.00	19.19	18.51	96	93	70-130	4	30	YES
t-Amyl Methyl Ether	20.00	18.60	17.83	93	89	77-120	4	30	YES
n-Heptane	20.00	18.45	17.68	92	88	53-132	4	30	YES
n-Butanol	1000.00	860.33	876.47	86	88	63-120	2	30	YES
Trichloroethene	20.00	18.38	17.52	92	88	80-120	5	30	YES
1,2-Dichloropropane	20.00	18.48	17.90	92	90	78-120	3	30	YES
Methylcyclohexane	20.00	17.88	16.89	89	84	71-132	6	30	YES
Methyl Methacrylate	20.00	15.48	15.09	77	75	72-120	3	30	YES
Dibromomethane	20.00	18.33	17.45	92	87	80-120	5	30	YES
1,4-Dioxane	500.00	468.14	481.07	94	96	51-129	3	30	YES
Bromodichloromethane	20.00	18.36	17.49	92	87	80-120	5	30	YES
2-Nitropropane	20.00	15.23	14.61	76	73	39-134	4	30	YES
2-Chloroethyl Vinyl Ether	20.00	17.37	16.88	87	84	56-129	3	30	YES
cis-1,3-Dichloropropene	20.00	17.69	17.12	88	86	80-120	3	30	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by PTL06 0045

_____ Ver. by _____

Lancaster Laboratories, Inc.
Volatiles Laboratory Control Sample Recoveries

LCS: eg25l01.d
Client ID: LCSE07
Method: SW-846 8260B
Instrument: HP15648

LCS Duplicate: eg25l02.d
Client ID: LCDE07
Matrix/Level: WL
Dilution Factor: 1.0

Batch: E102371AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCSD CONC UG/L	LCS REC %	LCSD REC %	Range LOWER-UPPER	RPD %	RPD MAX	INSPEC
4-Methyl-2-Pentanone	100.00	84.92	82.18	85	82	70-121	3	30	YES
Toluene	20.00	18.24	17.62	91	88	79-120	3	30	YES
trans-1,3-Dichloropropene	20.00	17.97	17.01	90	85	79-120	6	30	YES
Ethyl Methacrylate	20.00	20.10	19.24	100	96	70-120	4	30	YES
1,1,2-Trichloroethane	20.00	18.56	17.32	93	87	80-120	7	30	YES
Tetrachloroethene	20.00	17.83	16.85	89	84	80-121	6	30	YES
1,3-Dichloropropane	20.00	18.36	17.26	92	86	80-120	6	30	YES
2-Hexanone	100.00	91.18	87.74	91	88	65-136	4	30	YES
Dibromochloromethane	20.00	17.82	16.59	89	83	80-120	7	30	YES
1,2-Dibromoethane	20.00	17.51	16.77	88	84	80-120	4	30	YES
Chlorobenzene	20.00	18.25	17.52	91	88	80-120	4	30	YES
1,1,1,2-Tetrachloroethane	20.00	17.40	16.67	87	83	80-120	4	30	YES
Ethylbenzene	20.00	18.27	17.31	91	87	79-120	5	30	YES
m+p-Xylene	40.00	36.49	34.74	91	87	80-120	5	30	YES
Xylene (Total)	60.00	54.53	51.87	91	86	80-120	5	30	YES
o-Xylene	20.00	18.04	17.13	90	86	80-120	5	30	YES
Styrene	20.00	18.06	17.32	90	87	80-120	4	30	YES
Bromoform	20.00	16.34	15.48	82	77	61-120	5	30	YES
Isopropylbenzene	20.00	18.34	17.47	92	87	77-120	5	30	YES
Cyclohexanone	500.00	466.39	474.82	93	95	54-128	2	30	YES
1,1,2,2-Tetrachloroethane	20.00	17.44	16.86	87	84	71-120	3	30	YES
trans-1,4-Dichloro-2-Butene	100.00	85.18	82.61	85	83	36-144	3	30	YES
Bromobenzene	20.00	17.81	17.10	89	85	80-120	4	30	YES
1,2,3-Trichloropropane	20.00	17.79	16.33	89	82	80-120	9	30	YES
n-Propylbenzene	20.00	18.71	17.80	94	89	80-120	5	30	YES
2-Chlorotoluene	20.00	17.89	17.22	89	86	80-120	4	30	YES
1,3,5-Trimethylbenzene	20.00	18.25	17.45	91	87	75-120	4	30	YES
4-Chlorotoluene	20.00	17.92	17.28	90	86	80-120	4	30	YES
tert-Butylbenzene	20.00	18.08	17.06	90	85	80-120	6	30	YES
Pentachloroethane	20.00	18.30	17.38	91	87	76-120	5	30	YES
1,2,4-Trimethylbenzene	20.00	18.25	17.23	91	86	74-120	6	30	YES
sec-Butylbenzene	20.00	18.45	17.48	92	87	78-120	5	30	YES
p-Isopropyltoluene	20.00	18.07	17.16	90	86	80-120	5	30	YES
1,3-Dichlorobenzene	20.00	18.13	17.32	91	87	80-120	5	30	YES
1,4-Dichlorobenzene	20.00	18.18	17.34	91	87	80-120	5	30	YES
1,2,3-Trimethylbenzene	20.00	18.49	17.64	92	88	80-120	5	30	YES
Benzyl Chloride	20.00	16.19	15.61	81	78	69-120	4	30	YES
1,3-Diethylbenzene	20.00	18.19	17.51	91	88	80-120	4	30	YES
1,4-Diethylbenzene	20.00	18.27	17.24	91	86	77-120	6	30	YES
n-Butylbenzene	20.00	17.76	16.99	89	85	74-120	4	30	YES
1,2-Dichlorobenzene	20.00	18.28	17.32	91	87	80-120	5	30	YES
1,2-Diethylbenzene	20.00	18.38	17.43	92	87	80-120	5	30	YES
1,2-Dibromo-3-Chloropropane	20.00	17.18	16.66	86	83	66-120	3	30	YES
1,2,4-Trichlorobenzene	20.00	17.39	16.55	87	83	67-120	5	30	YES
Hexachlorobutadiene	20.00	16.61	15.92	83	80	58-120	4	30	YES
Naphthalene	20.00	17.11	16.22	86	81	62-120	5	30	YES
1,2,3-Trichlorobenzene	20.00	17.75	16.89	89	84	65-120	5	30	YES
2-Methylnaphthalene	20.00	17.18	16.55	86	83	36-120	4	30	YES
Diethylbenzene (total)	60.00	54.85	52.19	91	87	80-120	5	30	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by ____

Ver. by PTL06 0046

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_PTL06____

Lab File ID: eg24b51.d Lab Sample ID: VBLKE06

Date Analyzed: 08/24/10 Time Analyzed: 16:29

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

Instrument ID: HP15648

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

	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCSE06	eg24l51.d	16:49
02	6061430	eg24s51.d	17:48
03	6058076	eg24s52.d	18:08
04	6058077	eg24s53.d	18:28
05	6058078	eg24s54.d	18:48
06	6061440	eg24s55.d	19:08
07	6061441MS	eg24s56.d	19:28
08	6061442MSD	eg24s57.d	19:48
09	6061443	eg24s58.d	20:08
10	6061444	eg24s59.d	20:28
11	6061445	eg24s60.d	20:48
12	6061432	eg24s61.d	21:08
13	6061433	eg24s62.d	21:28
14	6061434	eg24s63.d	21:48
15	6061435	eg24s64.d	22:08
16	6061436	eg24s65.d	22:28
17	6061437	eg24s66.d	22:48
18	6061438	eg24s67.d	23:08
19	6061439	eg24s68.d	23:28
20	6059880	eg24s69.d	23:48
21	6059881	eg24s70.d	00:08
22	6061431	eg24s71.d	00:28
23	6059882	eg24s72.d	00:48
24	6059882DL	eg24s73.d	01:08
25	6061443DL	eg24s74.d	01:28

COMMENTS: E102362AA

PTL06 0047

FORM IV VOA

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_PTL06____

Lab File ID: eg25b01.d Lab Sample ID: VBLKE07

Date Analyzed: 08/25/10 Time Analyzed: 09:18

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

Instrument ID: HP15648

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

	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCSE07	eg25l01.d	09:38
02	LCDE07	eg25l02.d	09:58
03	6059883	eg25s01.d	10:55
04	6061439DL	eg25s02.d	11:15
05	6061608	eg25s03.d	11:35
06	6061609	eg25s04.d	11:55
07	6061820	eg25s05.d	12:16
08	6061820MS	eg25s06.d	12:35
09	6061821	eg25s07.d	12:55
10	6061822	eg25s08.d	13:15
11	6061823	eg25s09.d	13:35
12	6061824	eg25s10.d	13:55
13	6061825	eg25s11.d	14:15
14	6061826	eg25s12.d	14:35
15	6061827	eg25s13.d	14:55
16	6061828	eg25s14.d	15:15
17	6061829	eg25s15.d	15:35
18	6061830	eg25s16.d	15:55
19	6061831	eg25s17.d	16:15
20	6061832	eg25s18.d	16:35
21	6059086	eg25s19.d	16:55
22	6059087	eg25s20.d	17:15
23	6059088	eg25s21.d	17:35

COMMENTS: E102371AA

PTL06 0048

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.:_PTL06___

Lab File ID: eg19t01.d BFB Injection Date: 08/19/10

Instrument ID: HP15648 BFB Injection Time: 14:18

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	15.98
75	30.0 - 60.0% of mass 95	44.53
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.68
173	Less than 2.0% of mass 174	0.55 (0.65)1
174	Greater than 50.0% of mass 95	84.66
175	5.0 - 9.0% of mass 174	6.22 (7.34)1
176	Greater than 95.0%, but less than 101.0% of mass 174	82.14 (97.03)1
177	5.0 - 9.0% of mass 176	5.51 (6.71)2

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

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

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD300	eg19i02.d	08/19/10	14:47
02	VSTD100	eg19i03.d	08/19/10	15:07
03	VSTD50	eg19i04.d	08/19/10	15:27
04	VSTD20	eg19i05.d	08/19/10	15:47
05	VSTD10	eg19i06.d	08/19/10	16:07
06	VSTD4	eg19i07.d	08/19/10	16:27
07	MDL001 - MDL001	eg19m01.d	08/19/10	16:47
08	ICVE00	eg19cv1.d	08/19/10	17:07
09	VBLKE01	eg19b01.d	08/19/10	17:27
10	1MDL#1 - MDL002	eu18m11.d	08/19/10	17:47
11	1MDL#2 - MDL002	eu18m12.d	08/19/10	18:07
12	1MDL#3 - MDL002	eu18m13.d	08/19/10	18:27
13	1MDL#4 - MDL002	eu18m14.d	08/19/10	18:47
14	1MDL#5 - MDL002	eu18m15.d	08/19/10	19:07
15	1MDL#6 - MDL002	eu18m16.d	08/19/10	19:27
16	1MDL#7 - MDL002	eu18m17.d	08/19/10	19:47
17	HPEQUAD#1	eu18q05.d	08/19/10	23:49
18	HPEQUAD#2	eu18q06.d	08/20/10	00:09
19	HPEQUAD#3	eu18q07.d	08/20/10	00:29
20	HPEQUAD#4	eu18q08.d	08/20/10	00:49

PTL06 0049

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.:_PTL06___

Lab File ID: eg24t02.d BFB Injection Date: 08/24/10

Instrument ID: HP15648 BFB Injection Time: 15:39

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.75
75	30.0 - 60.0% of mass 95	44.66
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.47
173	Less than 2.0% of mass 174	0.56 (0.66)1
174	Greater than 50.0% of mass 95	85.35
175	5.0 - 9.0% of mass 174	5.83 (6.83)1
176	Greater than 95.0%, but less than 101.0% of mass 174	82.09 (96.18)1
177	5.0 - 9.0% of mass 176	5.52 (6.73)2

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

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

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	eg24c51.d	08/24/10	16:10
02	VBLKE06	eg24b51.d	08/24/10	16:29
03	LCSE06	eg24l51.d	08/24/10	16:49
04	6061430	eg24s51.d	08/24/10	17:48
05	6058076	eg24s52.d	08/24/10	18:08
06	6058077	eg24s53.d	08/24/10	18:28
07	6058078	eg24s54.d	08/24/10	18:48
08	6061440	eg24s55.d	08/24/10	19:08
09	6061441MS	eg24s56.d	08/24/10	19:28
10	6061442MSD	eg24s57.d	08/24/10	19:48
11	6061443	eg24s58.d	08/24/10	20:08
12	6061444	eg24s59.d	08/24/10	20:28
13	6061445	eg24s60.d	08/24/10	20:48
14	6061432	eg24s61.d	08/24/10	21:08
15	6061433	eg24s62.d	08/24/10	21:28
16	6061434	eg24s63.d	08/24/10	21:48
17	6061435	eg24s64.d	08/24/10	22:08
18	6061436	eg24s65.d	08/24/10	22:28
19	6061437	eg24s66.d	08/24/10	22:48
20	6061438	eg24s67.d	08/24/10	23:08
21	6061439	eg24s68.d	08/24/10	23:28
22	6059880	eg24s69.d	08/24/10	23:48

PTL06 0050

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.:_PTL06___

Lab File ID: eg24t02.d BFB Injection Date: 08/24/10

Instrument ID: HP15648 BFB Injection Time: 15:39

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.75
75	30.0 - 60.0% of mass 95	44.66
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.47
173	Less than 2.0% of mass 174	0.56 (0.66)1
174	Greater than 50.0% of mass 95	85.35
175	5.0 - 9.0% of mass 174	5.83 (6.83)1
176	Greater than 95.0%, but less than 101.0% of mass 174	82.09 (96.18)1
177	5.0 - 9.0% of mass 176	5.52 (6.73)2

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

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

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
23	6059881	eg24s70.d	08/25/10	00:08
24	6061431	eg24s71.d	08/25/10	00:28
25	6059882	eg24s72.d	08/25/10	00:48
26	6059882DL	eg24s73.d	08/25/10	01:08
27	6061443DL	eg24s74.d	08/25/10	01:28

PTL06 0051

FORM V VOA

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_PTL06___

Lab File ID: eg25t01.d BFB Injection Date: 08/25/10

Instrument ID: HP15648 BFB Injection Time: 08:27

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.51
75	30.0 - 60.0% of mass 95	44.65
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.41
173	Less than 2.0% of mass 174	0.64 (0.75)1
174	Greater than 50.0% of mass 95	85.59
175	5.0 - 9.0% of mass 174	6.04 (7.05)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.43 (97.48)1
177	5.0 - 9.0% of mass 176	5.47 (6.55)2

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

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

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	eg25c01.d	08/25/10	08:58
02	VBLKE07	eg25b01.d	08/25/10	09:18
03	LCSE07	eg25l01.d	08/25/10	09:38
04	LCDE07	eg25l02.d	08/25/10	09:58
05	6059883	eg25s01.d	08/25/10	10:55
06	6061439DL	eg25s02.d	08/25/10	11:15
07	6061608	eg25s03.d	08/25/10	11:35
08	6061609	eg25s04.d	08/25/10	11:55
09	6061820	eg25s05.d	08/25/10	12:16
10	6061820MS	eg25s06.d	08/25/10	12:35
11	6061821	eg25s07.d	08/25/10	12:55
12	6061822	eg25s08.d	08/25/10	13:15
13	6061823	eg25s09.d	08/25/10	13:35
14	6061824	eg25s10.d	08/25/10	13:55
15	6061825	eg25s11.d	08/25/10	14:15
16	6061826	eg25s12.d	08/25/10	14:35
17	6061827	eg25s13.d	08/25/10	14:55
18	6061828	eg25s14.d	08/25/10	15:15
19	6061829	eg25s15.d	08/25/10	15:35
20	6061830	eg25s16.d	08/25/10	15:55
21	6061831	eg25s17.d	08/25/10	16:15
22	6061832	eg25s18.d	08/25/10	16:35

PTL06 0052

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.:_PTL06___

Lab File ID: eg25t01.d BFB Injection Date: 08/25/10

Instrument ID: HP15648 BFB Injection Time: 08:27

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.51
75	30.0 - 60.0% of mass 95	44.65
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.41
173	Less than 2.0% of mass 174	0.64 (0.75)1
174	Greater than 50.0% of mass 95	85.59
175	5.0 - 9.0% of mass 174	6.04 (7.05)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.43 (97.48)1
177	5.0 - 9.0% of mass 176	5.47 (6.55)2

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

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

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
23	6059086	eg25s19.d	08/25/10	16:55
24	6059087	eg25s20.d	08/25/10	17:15
25	6059088	eg25s21.d	08/25/10	17:35

PTL06 0053

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.:_PTL06___

Lab File ID (Standard): eg24c51.d Date Analyzed: 08/24/10

Instrument ID: HP15648 Time Analyzed: 16:10

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

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #	IS4(TBA) AREA #	RT #
	12 HOUR STD	1257097	5.047	881375	8.126	484372	9.967	196455	2.767
	UPPER LIMIT	2514194	5.547	1762750	8.626	968744	10.467	392910	3.267
	LOWER LIMIT	628548	4.547	440688	7.626	242186	9.467	98228	2.267
	LAB SAMPLE ID								
01	VBLKE06	1266412	5.047	894151	8.126	484858	9.967	159665	2.761
02	LCSE06	1231045	5.041	873971	8.126	475348	9.973	198037	2.761
03	6061430	1286557	5.041	912141	8.120	492990	9.967	157038	2.755
04	6058076	1318806	5.035	942495	8.126	508526	9.967		
05	6058077	1307016	5.041	928413	8.126	498057	9.967		
06	6058078	1327250	5.041	947582	8.126	510839	9.967		
07	6061440	1298540	5.041	918317	8.126	502650	9.967	154471	2.748
08	6061441MS	1326618	5.047	939198	8.126	517747	9.967	150779	2.767
09	6061442MSD	1310931	5.041	927934	8.126	503287	9.967	148691	2.755
10	6061443	1283580	5.047	914354	8.126	492510	9.967	230910	2.761
11	6061444	1277543	5.041	897984	8.126	491497	9.967	150301	2.761
12	6061445	1297075	5.041	917624	8.126	500167	9.967	147116	2.755
13	6061432	1270754	5.041	898738	8.126	491048	9.967	155196	2.755
14	6061433	1302698	5.041	929282	8.126	502639	9.967	156448	2.743
15	6061434	1302703	5.041	924021	8.126	499127	9.967	157464	2.761
16	6061435	1239804	5.047	878762	8.126	476813	9.967	201133	2.755
17	6061436	1301792	5.047	924066	8.126	505361	9.967	161903	2.767
18	6061437	1305754	5.041	921732	8.126	498473	9.967	173976	2.761
19	6061438	1259112	5.041	894953	8.126	484272	9.967	152257	2.749
20	6061439	1300500	5.047	924578	8.126	498859	9.967	162068	2.761
21	6059880	1297475	5.041	925290	8.126	497835	9.967		
22	6059881	1296561	5.041	918869	8.126	491145	9.967		

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

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

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

PTL06 0054

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.:_PTL06___

Lab File ID (Standard): eg24c51.d Date Analyzed: 08/24/10

Instrument ID: HP15648 Time Analyzed: 16:10

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

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #	IS4(TBA) AREA #	RT #
	12 HOUR STD	1257097	5.047	881375	8.126	484372	9.967	196455	2.767
	UPPER LIMIT	2514194	5.547	1762750	8.626	968744	10.467	392910	3.267
	LOWER LIMIT	628548	4.547	440688	7.626	242186	9.467	98228	2.267
	LAB SAMPLE ID								
23	6061431	1289534	5.041	915406	8.126	500328	9.967	150343	2.755
24	6059882	1296565	5.041	922094	8.126	504854	9.967		
25	6059882DL	1288676	5.041	917403	8.125	493575	9.966		
26	6061443DL	1296183	5.041	914424	8.126	499331	9.967	143760	2.761

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

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

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.:_PTL06___

Lab File ID (Standard): eg25c01.d Date Analyzed: 08/25/10

Instrument ID: HP15648 Time Analyzed: 08:58

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

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #	IS4(TBA) AREA #	RT #
	12 HOUR STD	1244258	5.047	886869	8.126	491056	9.973	194517	2.761
	UPPER LIMIT	2488516	5.547	1773738	8.626	982112	10.473	389034	3.261
	LOWER LIMIT	622129	4.547	443434	7.626	245528	9.473	97258	2.261
	LAB SAMPLE ID								
01	VBLKE07	1266552	5.047	905857	8.126	490186	9.967	155554	2.755
02	LCSE07	1271669	5.047	908705	8.126	494967	9.973	151274	2.761
03	LCDE07	1330077	5.041	954591	8.126	520674	9.967	153108	2.755
04	6059883	1482216	5.016	1069470	8.113	572859	9.960		
05	6061439DL	1279664	5.035	913499	8.119	494932	9.967	156343	2.755
06	6061608	1295237	5.041	924655	8.126	496339	9.967		
07	6061609	1315432	5.041	945364	8.126	502982	9.967		
08	6061820	1344024	5.041	958491	8.126	518135	9.967	157607	2.761
09	6061820MS	1294479	5.041	910505	8.126	499673	9.967	138321	2.749
10	6061821	1255959	5.041	901996	8.126	483364	9.967		
11	6061822	1262906	5.041	897684	8.126	488097	9.967		
12	6061823	1266034	5.041	901071	8.126	487438	9.967		
13	6061824	1262451	5.041	909780	8.126	483527	9.967		
14	6061825	1293967	5.041	933126	8.126	501791	9.967		
15	6061826	1302929	5.041	945577	8.126	500882	9.967		
16	6061827	1336475	5.041	939031	8.126	503400	9.967		
17	6061828	1303355	5.041	928326	8.126	502273	9.967		
18	6061829	1309638	5.041	944674	8.126	504523	9.967		
19	6061830	1277080	5.041	921468	8.126	492525	9.967		
20	6061831	1299602	5.041	917197	8.126	503558	9.967		
21	6061832	1295070	5.041	929974	8.126	492603	9.967		
22	6059086	1274660	5.041	911065	8.126	489831	9.967		

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

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

PTL06 0056

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.:_PTL06___

Lab File ID (Standard): eg25c01.d Date Analyzed: 08/25/10

Instrument ID: HP15648 Time Analyzed: 08:58

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

		IS1(FBZ) AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #	IS4(TBA) AREA #	RT #
	12 HOUR STD	1244258	5.047	886869	8.126	491056	9.973	194517	2.761
	UPPER LIMIT	2488516	5.547	1773738	8.626	982112	10.473	389034	3.261
	LOWER LIMIT	622129	4.547	443434	7.626	245528	9.473	97258	2.261
	LAB SAMPLE ID								
23	6059087	1257227	5.041	906347	8.126	482973	9.967		
24	6059088	1271574	5.041	910267	8.126	490043	9.967		

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

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

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

FORM VIII VOA

Sample Data

Lancaster Laboratories

LOQ and MDL by Analysis Number

COMPONENT NAME	MDL	LOQ	DEFAULT UNITS
10903: 8260 Std. Water Master			
Methyl Tertiary Butyl Ether	0.5	5	ug/l
di-Isopropyl ether	0.8	5	ug/l
Ethyl t-butyl ether	0.8	5	ug/l
t-Amyl methyl ether	0.8	5	ug/l
t-Butyl alcohol	10	80	ug/l
Tetrahydrofuran	4	10	ug/l
2-Propanol	50	100	ug/l
n-Hexane	2	5	ug/l
Cyclohexane	2	5	ug/l
n-Heptane	2	5	ug/l
n-Butanol	100	250	ug/l
Benzyl Chloride	1	5	ug/l
Cyclohexanone	55	250	ug/l
2-Nitropropane	2	10	ug/l
Methyl Acetate	1	5	ug/l
Methylcyclohexane	1	5	ug/l
1,3-Diethylbenzene	1	5	ug/l
1,4-Diethylbenzene	1	5	ug/l
1,2-Diethylbenzene	1	5	ug/l
Dichlorodifluoromethane	2	5	ug/l
Chloromethane	1	5	ug/l
Vinyl Chloride	1	5	ug/l
Bromomethane	1	5	ug/l
Chloroethane	1	5	ug/l
Trichlorofluoromethane	2	5	ug/l
1,1-Dichloroethene	0.8	5	ug/l
Methylene Chloride	2	5	ug/l
trans-1,2-Dichloroethene	0.8	5	ug/l
1,1-Dichloroethane	1	5	ug/l
2,2-Dichloropropane	1	5	ug/l
cis-1,2-Dichloroethene	0.8	5	ug/l
Chloroform	0.8	5	ug/l
Bromochloromethane	1	5	ug/l
1,1,1-Trichloroethane	0.8	5	ug/l
Carbon Tetrachloride	1	5	ug/l
1,1-Dichloropropene	1	5	ug/l
Benzene	0.5	5	ug/l
1,2-Dichloroethane	1	5	ug/l
Trichloroethene	1	5	ug/l
1,2-Dichloropropane	1	5	ug/l
Dibromomethane	1	5	ug/l
Bromodichloromethane	1	5	ug/l
Toluene	0.7	5	ug/l
1,1,2-Trichloroethane	0.8	5	ug/l
Tetrachloroethene	0.8	5	ug/l
1,3-Dichloropropane	1	5	ug/l
Dibromochloromethane	1	5	ug/l
1,2-Dibromoethane	1	5	ug/l
Chlorobenzene	0.8	5	ug/l
1,1,1,2-Tetrachloroethane	1	5	ug/l
Ethylbenzene	0.8	5	ug/l
m+p-Xylene	0.8	5	ug/l
o-Xylene	0.8	5	ug/l
Styrene	1	5	ug/l
Bromoform	1	5	ug/l
Isopropylbenzene	1	5	ug/l
1,1,2,2-Tetrachloroethane	1	5	ug/l
Bromobenzene	1	5	ug/l
1,2,3-Trichloropropane	1	5	ug/l

FTL86 0859

COMPONENT NAME	MDL	LOQ	DEFAULT UNITS
10903: 8260 Std. Water Master			
n-Propylbenzene	1	5	ug/l
2-Chlorotoluene	1	5	ug/l
1,3,5-Trimethylbenzene	1	5	ug/l
4-Chlorotoluene	1	5	ug/l
tert-Butylbenzene	1	5	ug/l
1,2,4-Trimethylbenzene	1	5	ug/l
sec-Butylbenzene	1	5	ug/l
p-Isopropyltoluene	1	5	ug/l
1,3-Dichlorobenzene	1	5	ug/l
1,4-Dichlorobenzene	1	5	ug/l
n-Butylbenzene	1	5	ug/l
1,2-Dichlorobenzene	1	5	ug/l
1,2-Dibromo-3-chloropropane	2	5	ug/l
1,2,4-Trichlorobenzene	1	5	ug/l
Hexachlorobutadiene	2	5	ug/l
Naphthalene	1	5	ug/l
1,2,3-Trichlorobenzene	1	5	ug/l
Diethylbenzene (total)	1	5	ug/l
Acetone	6	20	ug/l
Carbon Disulfide	1	5	ug/l
1,2-Dichloroethene (Total)	0.8	5	ug/l
2-Butanone	3	10	ug/l
trans-1,3-Dichloropropene	1	5	ug/l
cis-1,3-Dichloropropene	1	5	ug/l
4-Methyl-2-pentanone	3	10	ug/l
2-Hexanone	3	10	ug/l
Xylene (Total)	0.8	5	ug/l
1,2,3-Trimethylbenzene	1	5	ug/l
Methyl Iodide	1	5	ug/l
Acrylonitrile	4	20	ug/l
trans-1,4-Dichloro-2-butene	15	50	ug/l
Acrolein	40	100	ug/l
Allyl Chloride	1	5	ug/l
2-Chloro-1,3-butadiene	1	5	ug/l
Propionitrile	30	100	ug/l
Methacrylonitrile	10	50	ug/l
Isobutyl Alcohol	100	250	ug/l
Methyl Methacrylate	1	5	ug/l
1,4-Dioxane	70	250	ug/l
Ethyl Methacrylate	1	5	ug/l
Pentachloroethane	1	5	ug/l
2-Chloroethyl Vinyl Ether	2	10	ug/l
Freon 113	2	10	ug/l
2-Methylnaphthalene	2	5	ug/l

PTL06 0060

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061430

Data file: /chem/HP15648.i/10aug24b.b/eg24s51.d
Data file Sample Info. Line: XXXXX;6061430;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 18:10 sej02002

Injection date and time: **24-AUG-2010 17:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.012)	290	65	157038 (-20)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1286557 (2)	50.00	
103) Chlorobenzene-d5	8.120(0.006)	1170	117	912141 (3)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	492990 (2)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.377(0.001)	113	284519	49.458	99%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.706(0.000)	102	76712	50.222	100%		77 - 113
90) Toluene-d8	(2)	6.681(0.000)	98	1269851	50.343	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(-0.001)	95	449369	50.217	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)			Not Detected					0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)			Not Detected					1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 0061

Digitally signed by Sara E. Johnson on 08/24/2010 at 18:11. Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061430

Data file: /chem/HP15648.i/10aug24b.b/eg24s51.d
Data file Sample Info. Line: XXXXX;6061430;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 18:10 sej02002

Injection date and time: **24-AUG-2010 17:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

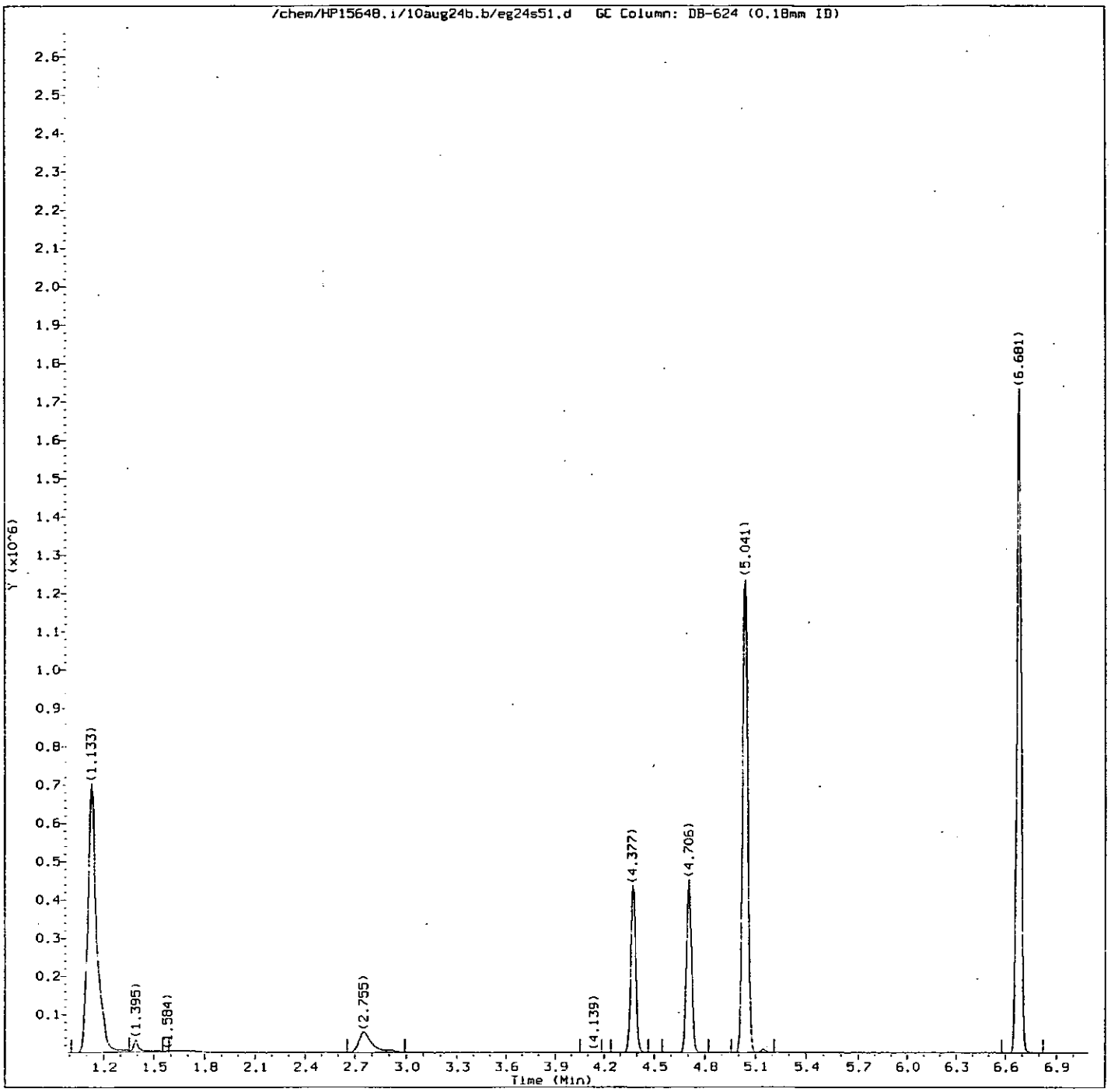
Total number of targets = 63

Comments:

Digitally signed by Sara E. Johnson on 08/24/2010 at 18:11. Target 3.5 esignature user ID: sej02002

PTL86 0862

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s51.d
Injection date and time: 24-AUG-2010 17:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

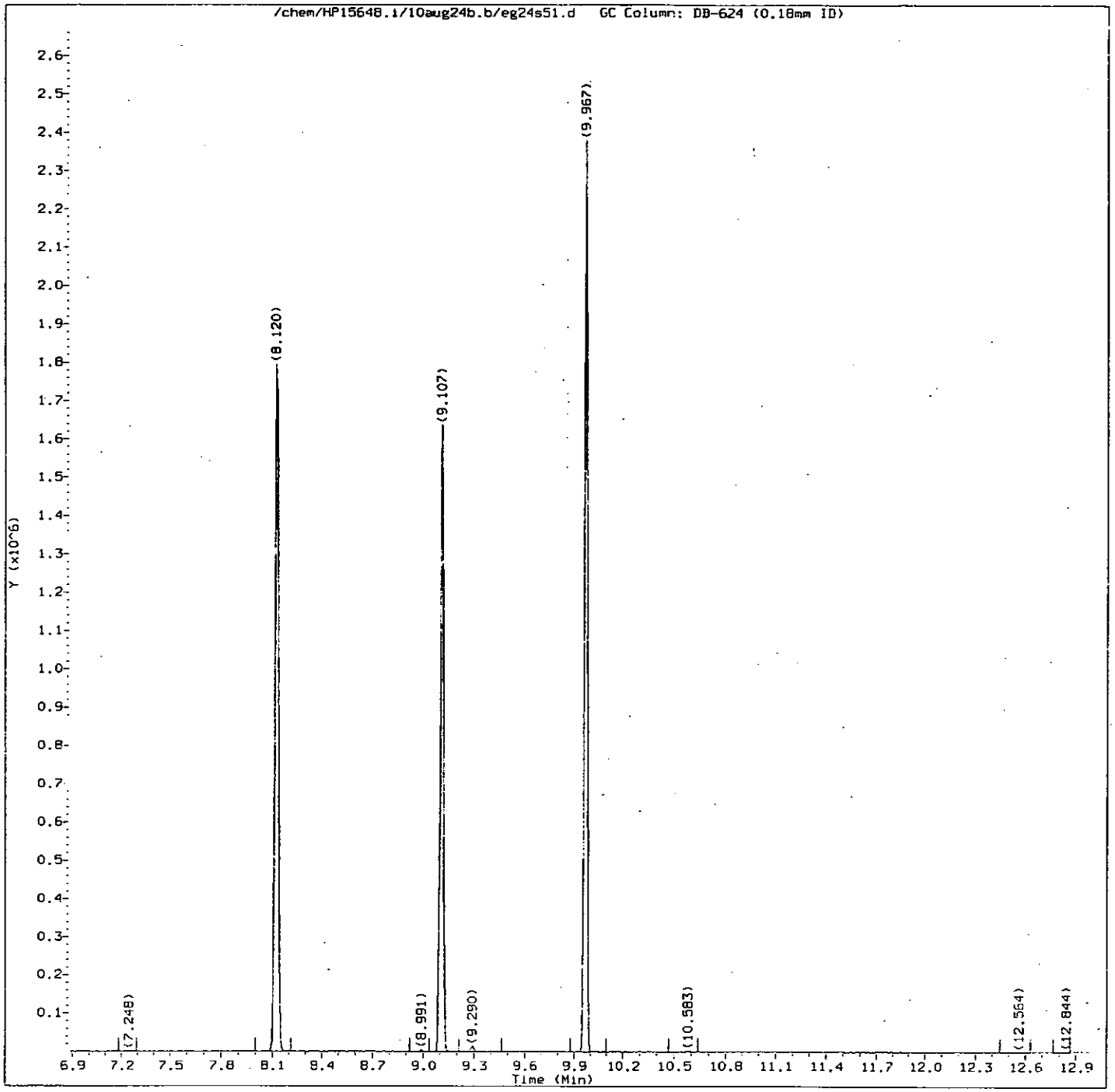
Date, time and analyst ID of latest file update: 24-Aug-2010 18:10 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061430

PTL06 0063

Digitally signed by Sara E. Johnson
on 08/24/2010 at 18:11.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s51.d
Injection date and time: 24-AUG-2010 17:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 18:10 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061430

PTL86 0064

Digitally signed by Sara E. Johnson
on 08/24/2010 at 18:11.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s51.d
Injection date and time: 24-AUG-2010 17:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 18:10 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061430

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
25)*t-Butyl Alcohol-d10	(4)	2.755	65	157038	250.000
50)$Dibromofluoromethane	(1)	4.377	113	284519	49.458
59)$1,2-Dichloroethane-d4	(1)	4.706	102	76712	50.222
69)*Fluorobenzene	(1)	5.041	96	1286557	50.000
90)$Toluene-d8	(2)	6.681	98	1269851	50.343
103)*Chlorobenzene-d5	(2)	8.120	117	912141	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	449369	50.217
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	492990	50.000

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

PTL06 0065

Digitally signed by Sara E. Johnson
on 08/24/2010 at 18:11.
Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061431

Data file: /chem/HP15648.i/10aug24b.b/eg24s71.d
Data file Sample Info. Line: XXXXX;6061431;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:38 jml01693

Injection date and time: **25-AUG-2010 00:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.012)	290	65	150343 (-23)	250.00	
69) Fluorobenzene	5.041(0.006)	655	96	1289534 (3)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	915406 (4)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	500328 (3)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.382(0.000)	113	290694	50.415	101%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(-0.001)	102	77285	50.480	101%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1268967	50.128	100%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	444552	49.501	99%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)			Not Detected					0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)			Not Detected					1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 18866

Digitally signed by Jason M. Long on 08/25/2010 at 07:59. Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061431

Data file: /chem/HP15648.i/10aug24b.b/eg24s71.d
Data file Sample Info. Line: XXXXX;6061431;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Injection date and time: **25-AUG-2010 00:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

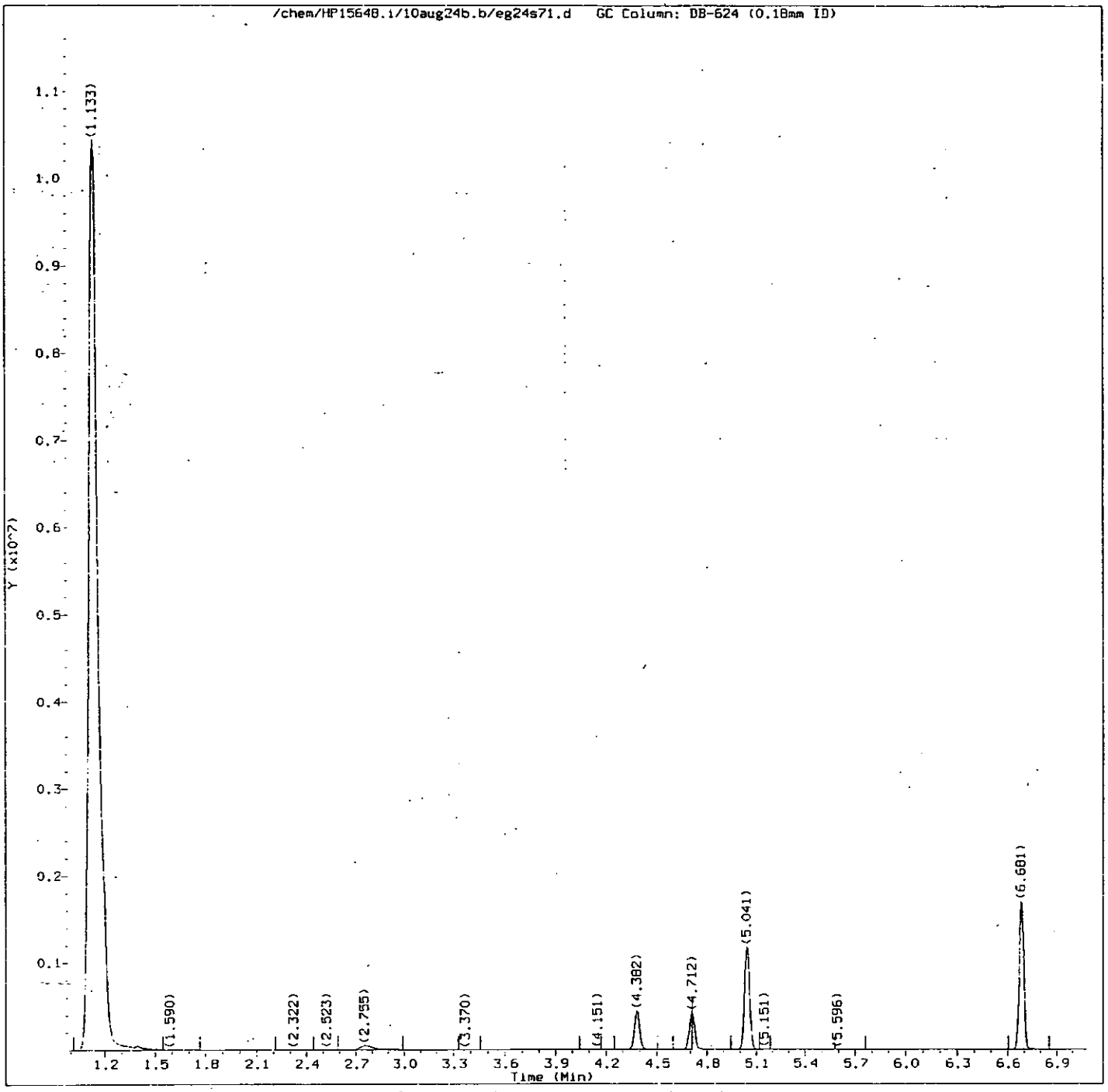
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

Total number of targets = 63

Comments:

Digitally signed by Jason M. Long on 08/25/2010 at 07:59. Target 3.5 esignature user ID: jml01693 PTL06 0067

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

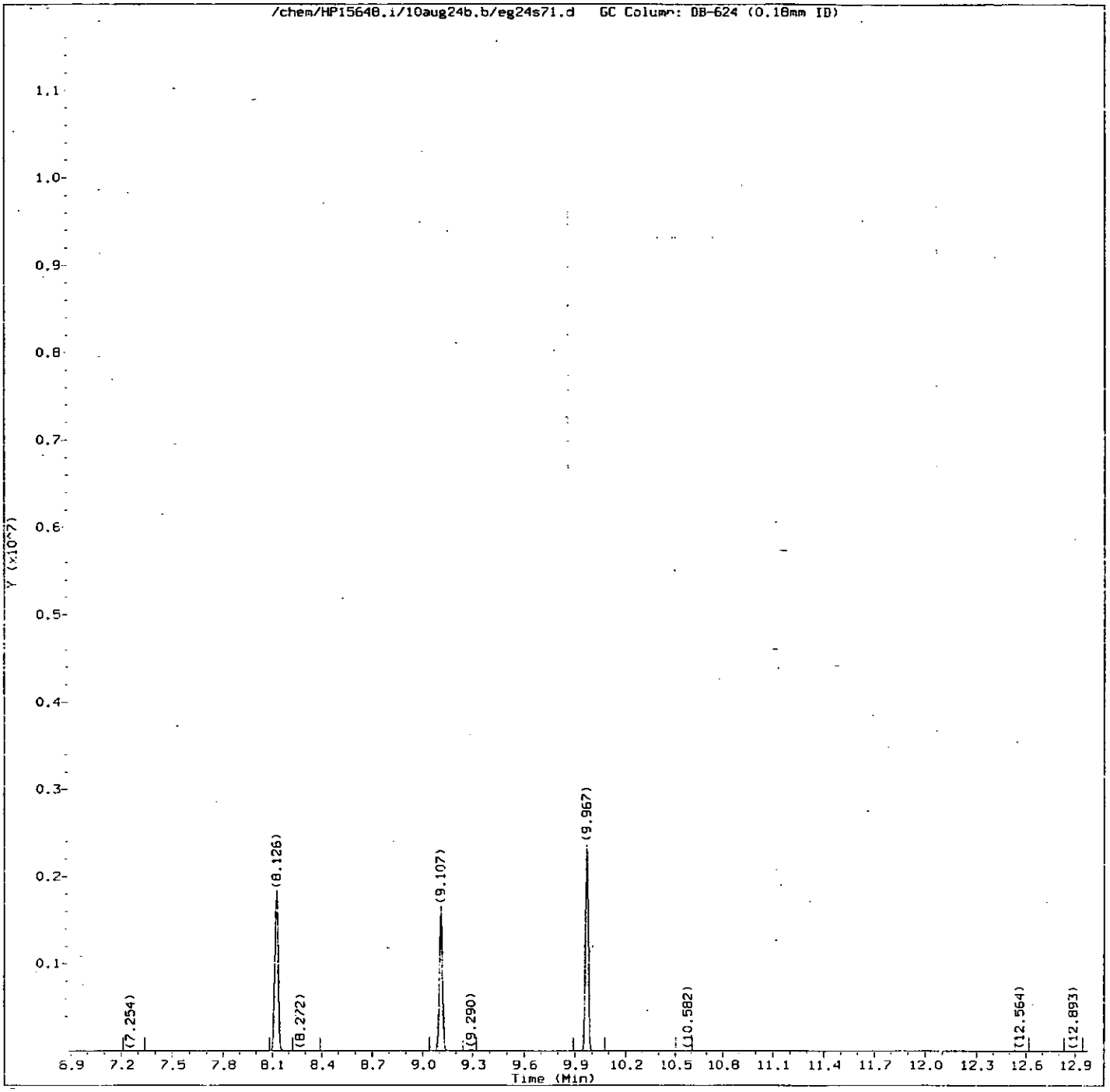
Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s71.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 00:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:38 jml01693

Sample Name: XXXXX Lab Sample ID: 6061431 PTL86 0068

Digitally signed by Jason M. Long
on 08/25/2010 at 07:59.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s71.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 00:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:38 jml01693

Sample Name: XXXXX Lab Sample ID: 6061431 PTL86 0069

Digitally signed by Jason M. Long
on 08/25/2010 at 07:59.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s71.d
Injection date and time: 25-AUG-2010 00:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:38 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061431

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
25)*t-Butyl Alcohol-d10	(4)	2.755	65	150343	250.000
50)$Dibromofluoromethane	(1)	4.382	113	290694	50.415
59)$1,2-Dichloroethane-d4	(1)	4.712	102	77285	50.480
69)*Fluorobenzene	(1)	5.041	96	1289534	50.000
90)$Toluene-d8	(2)	6.681	98	1268967	50.128
103)*Chlorobenzene-d5	(2)	8.126	117	915406	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	444552	49.501
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	500328	50.000

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

PTL06 0070

Digitally signed by Jason M. Long
on 08/25/2010 at 07:59.
Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061432

Data file: /chem/HP15648.i/10aug24b.b/eg24s61.d
Data file Sample Info. Line: XXXXX;6061432;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 21:30 sej02002

Injection date and time: **24-AUG-2010 21:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.012)	290	65	155196 (-21)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1270754 (1)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	898738 (2)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	491048 (1)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.383(0.000)	113	286422	50.408	101%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(-0.001)	102	75477	50.691	101%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1259899	50.693	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	442380	50.173	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.322(0.000)	96	519700	72.188	72.19			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.364(0.000)	63	23204	1.730	1.73			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 0071

Digitally signed by Sara E. Johnson on 08/24/2010 at 21:30. Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061432

Data file: /chem/HP15648.i/10aug24b.b/eg24s61.d
Data file Sample Info. Line: XXXXX;6061432;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 21:30 sej02002

Injection date and time: **24-AUG-2010 21:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

Total number of targets = 63

Comments:

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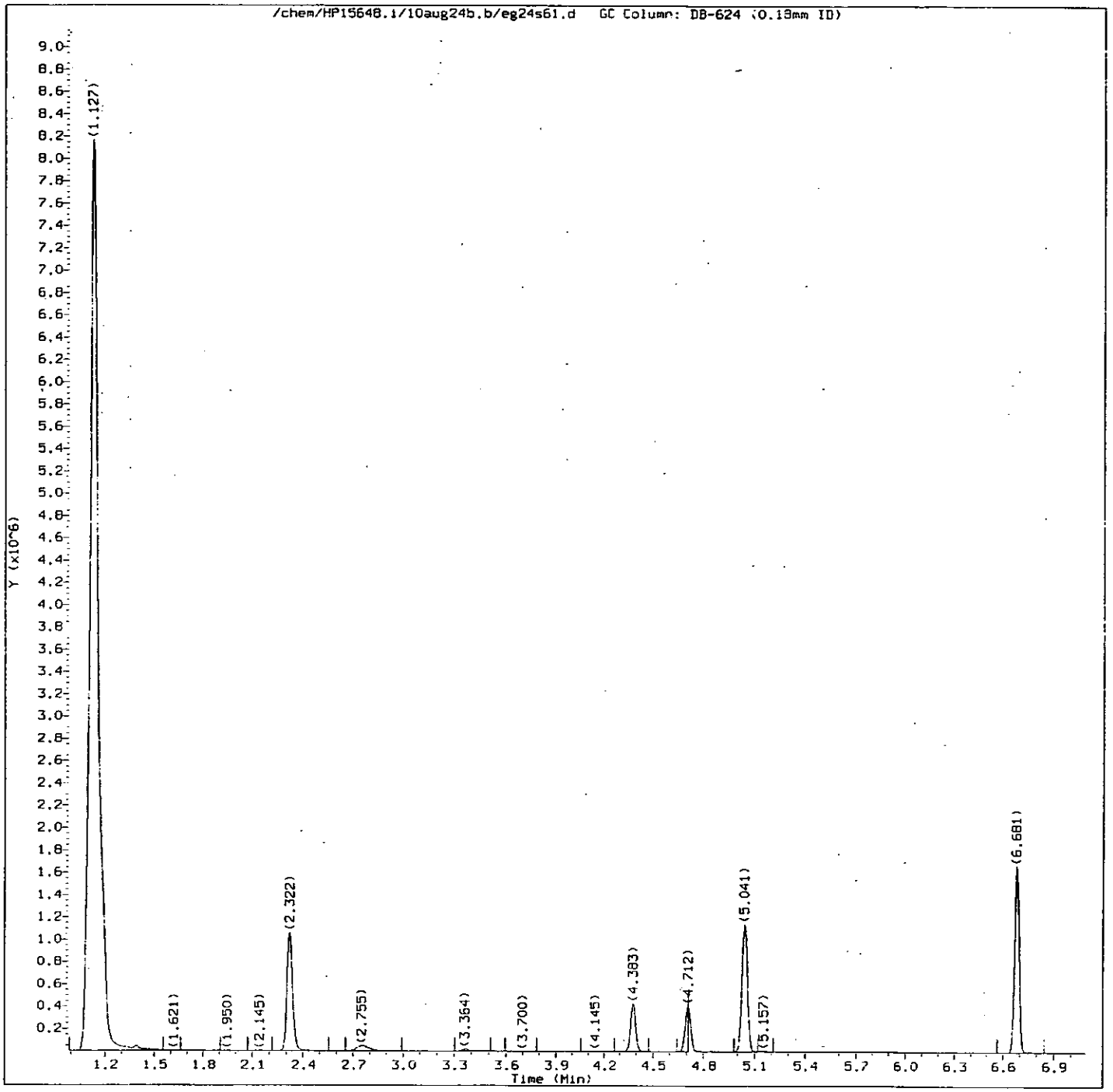
PTL06 0072

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s61.d
Injection date and time: 24-AUG-2010 21:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

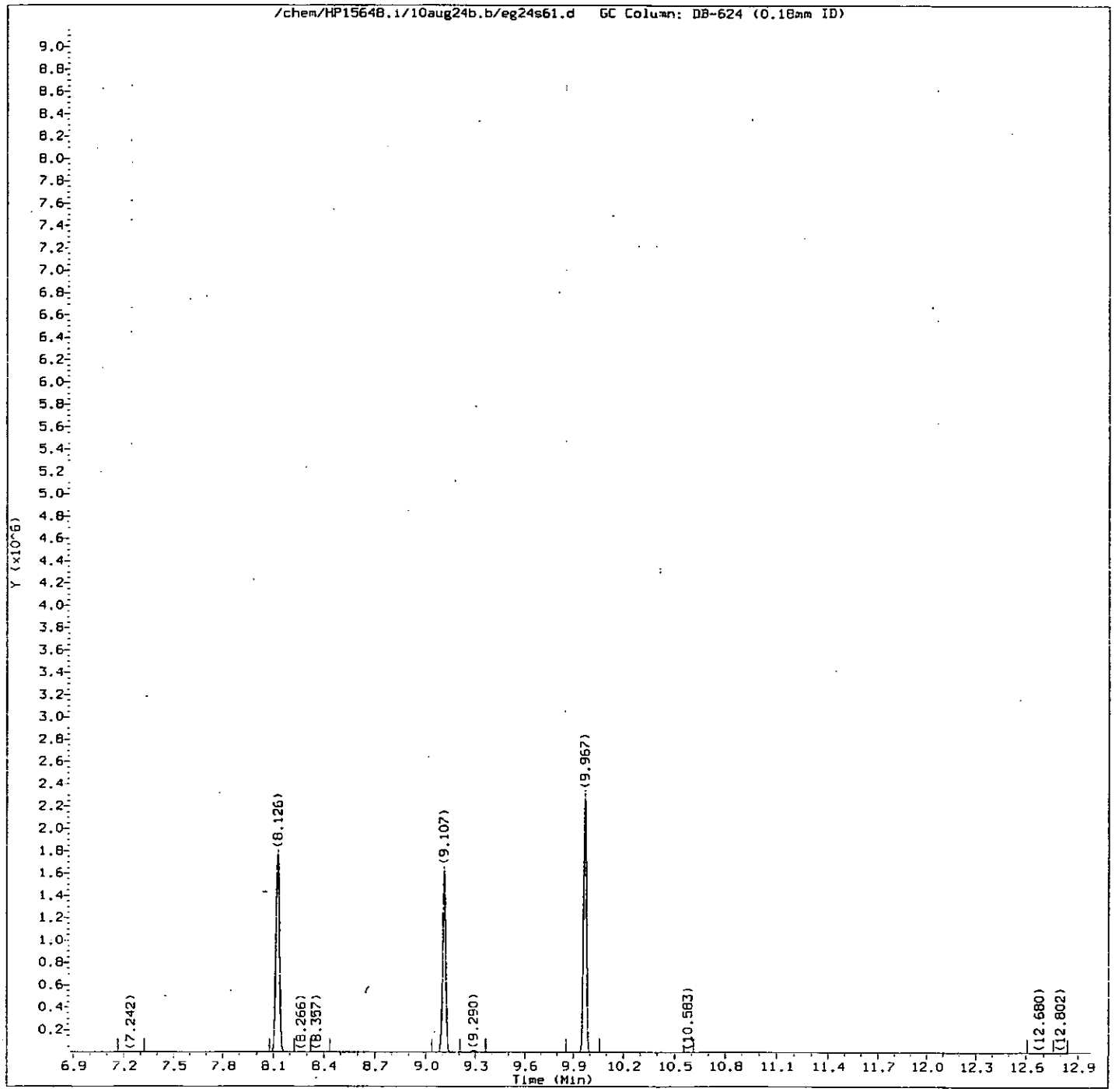
Date, time and analyst ID of latest file update: 24-Aug-2010 21:30 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061432

PTL86 0073

Digitally signed by Sara E. Johnson
on 08/24/2010 at 21:30.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s61.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 21:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 21:30 sej02002

Sample Name: XXXXX Lab Sample ID: 6061432

PTL86 0074

Digitally signed by Sara E. Johnson
on 08/24/2010 at 21:30.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s61.d
Injection date and time: 24-AUG-2010 21:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:30 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061432

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.322	96	519700	72.188
25)*t-Butyl Alcohol-d10	(4)	2.755	65	155196	250.000
33) 1,1-Dichloroethane	(1)	3.364	63	23204	1.730
50)$Dibromofluoromethane	(1)	4.383	113	286422	50.408
59)$1,2-Dichloroethane-d4	(1)	4.712	102	76477	50.691
69)*Fluorobenzene	(1)	5.041	96	1270754	50.000
90)$Toluene-d8	(2)	6.681	98	1259899	50.693
103)*Chlorobenzene-d5	(2)	8.126	117	898738	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	442380	50.173
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	491048	50.000

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

PTL06 0075

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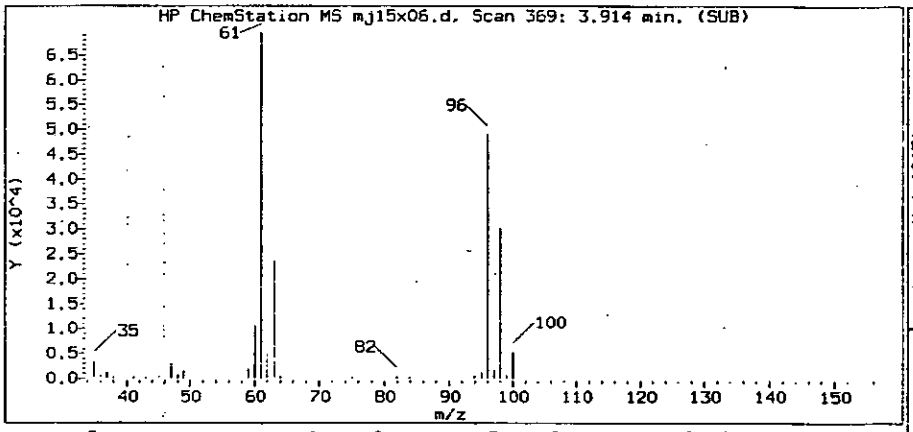
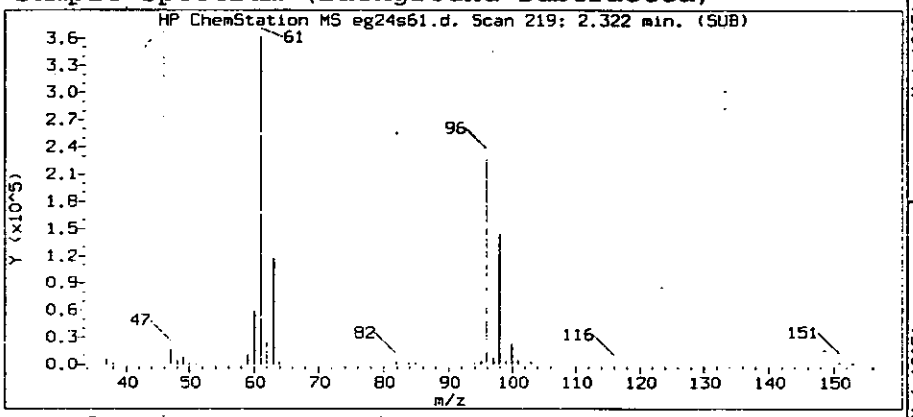
on 08/24/2010 at 21:30.
Target 3.5 esignature user ID: sej02002

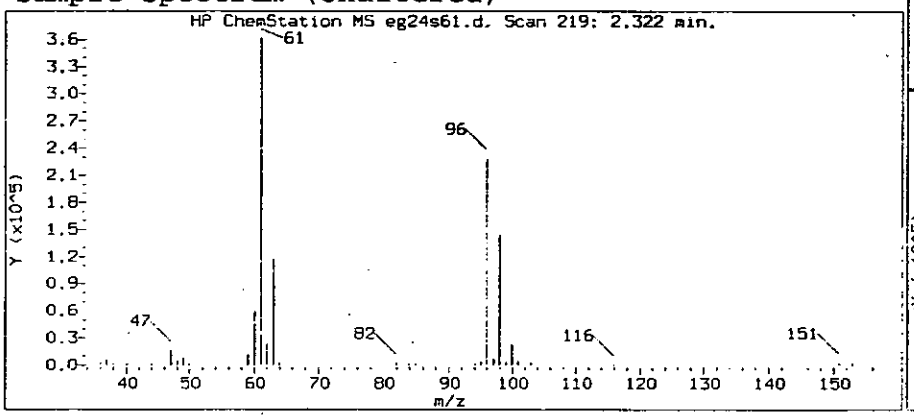
Reference Standard Spectrum for 1,1-Dichloroethene

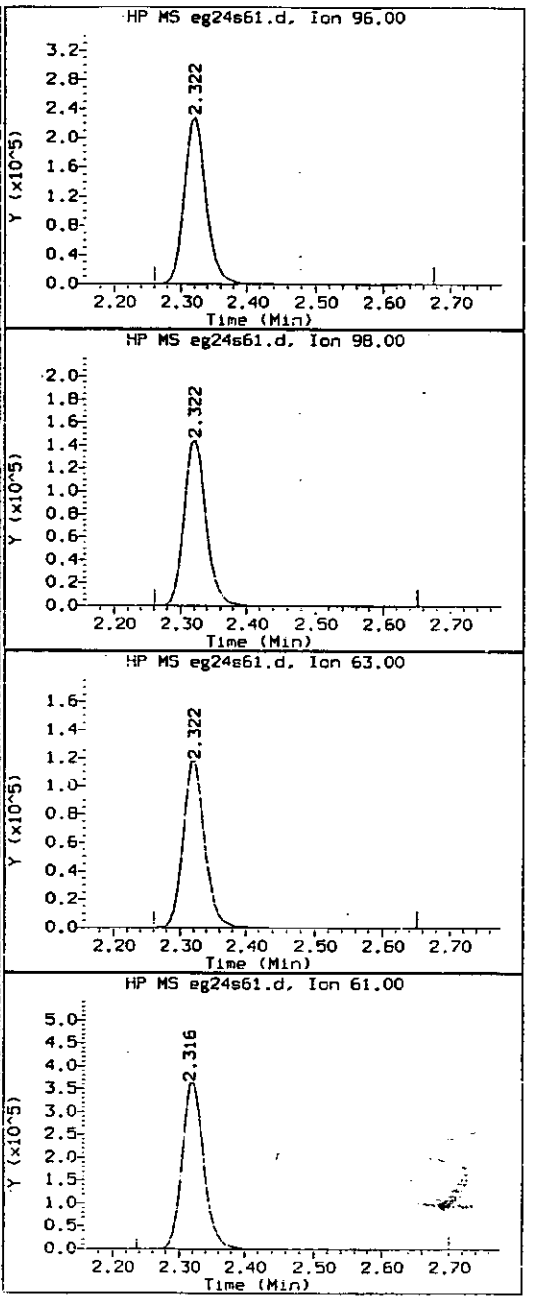


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s61.d
Injection date and time: 24-AUG-2010 21:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:30 sej02002

Sample Name: XXXXX

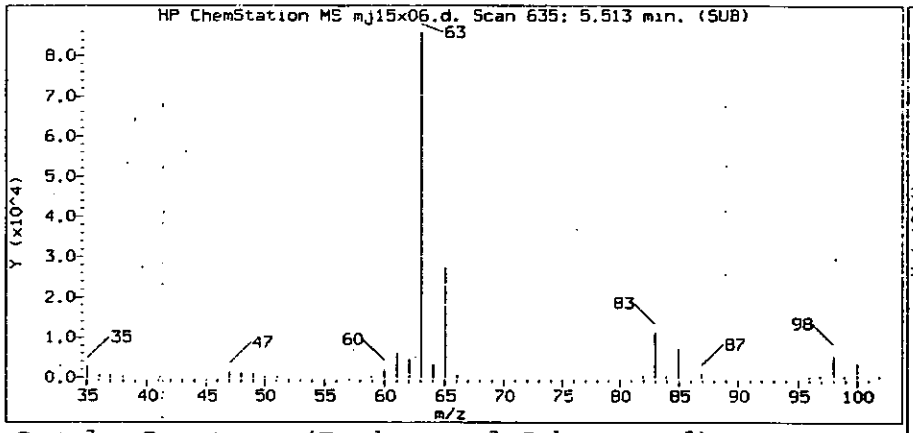
Lab Sample ID: 6061432

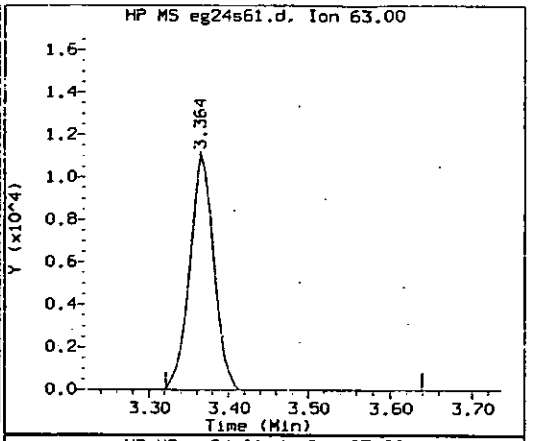
Compound Number	: 15
Compound Name	: 1,1-Dichloroethene
Scan Number	: 219
Retention Time (minutes)	: 2.322
Relative Retention Time	: 0.000
Quant Ion	: 96.00
Area (flag)	: 519700
On-Column Amount (ng)	: 72.1884

PTL06 0076

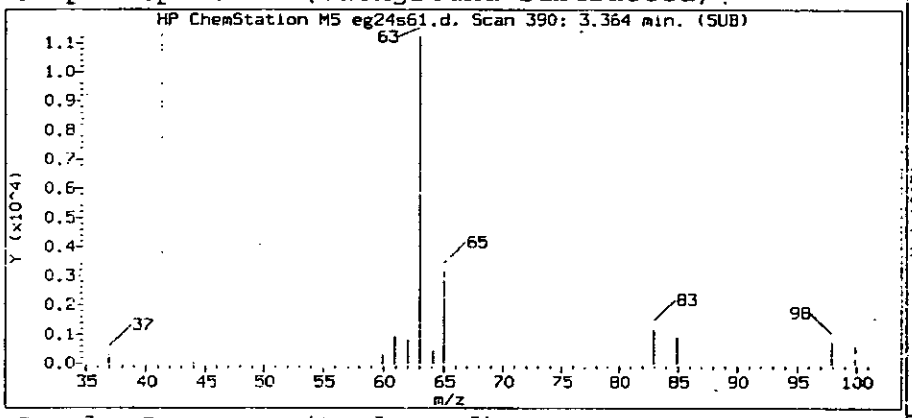
Digitally signed by Sara E. Johnson on 08/24/2010 at 21:30.
Target 3.5 esignature user ID: sej02002

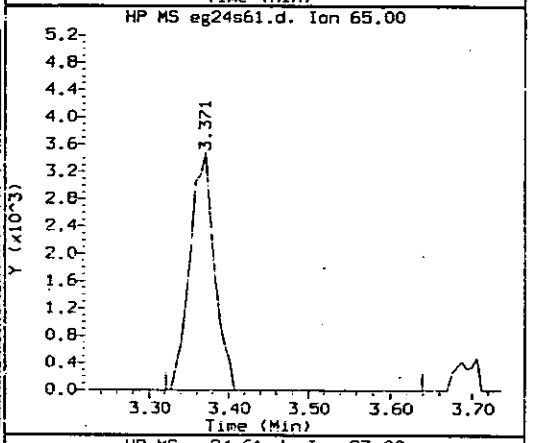
Reference Standard Spectrum for 1,1-Dichloroethane



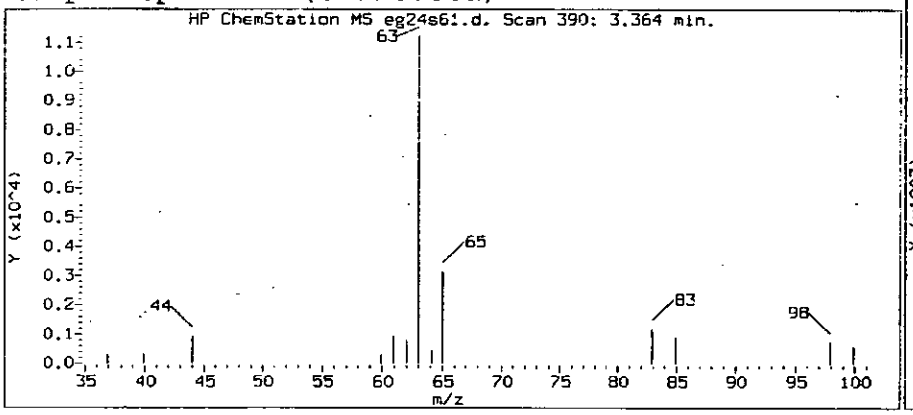


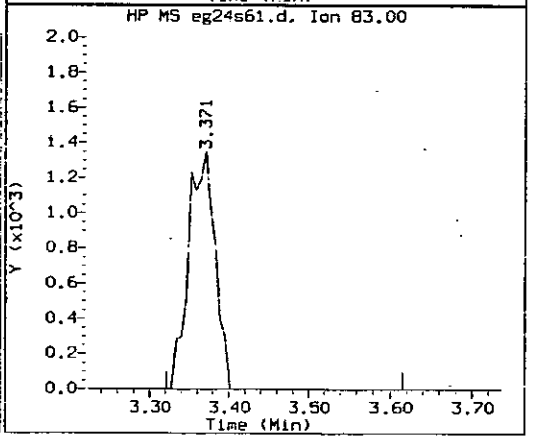
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s61.d
Injection date and time: 24-AUG-2010 21:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:30 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061432

Compound Number : 33
Compound Name : 1,1-Dichloroethane
Scan Number : 390
Retention Time (minutes): 3.364
Relative Retention Time : 0.000
Quant Ion : 63.00
Area (flag) : 23204
On-Column Amount (ng) : 1.7302

PTL06 0077

Digitally signed by Sara E. Johnson on 08/24/2010 at 21:30.
Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061433

Data file: /chem/HP15648.i/10aug24b.b/eg24s62.d
Data file Sample Info. Line: XXXXX;6061433;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 22:45 sej02002

Injection date and time: **24-AUG-2010 21:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.743(0.024)	288	65	156448 (-20)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1302698 (4)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	929282 (5)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	502639 (4)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.376(0.001)	113	287656	49.384	99%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.706(0.000)	102	77461	50.084	100%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1276675	49.680	99%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	452732	49.659	99%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.310(0.003)	96	98715	13.376	13.38			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.352(0.002)	63	14453	1.051	1.05			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 0078

Digitally signed by Sara E. Johnson on 08/24/2010 at 22:45. Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061433

Data file: /chem/HP15648.i/10aug24b.b/eg24s62.d
Data file Sample Info. Line: XXXXX;6061433;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 22:45 sej02002

Injection date and time: **24-AUG-2010 21:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

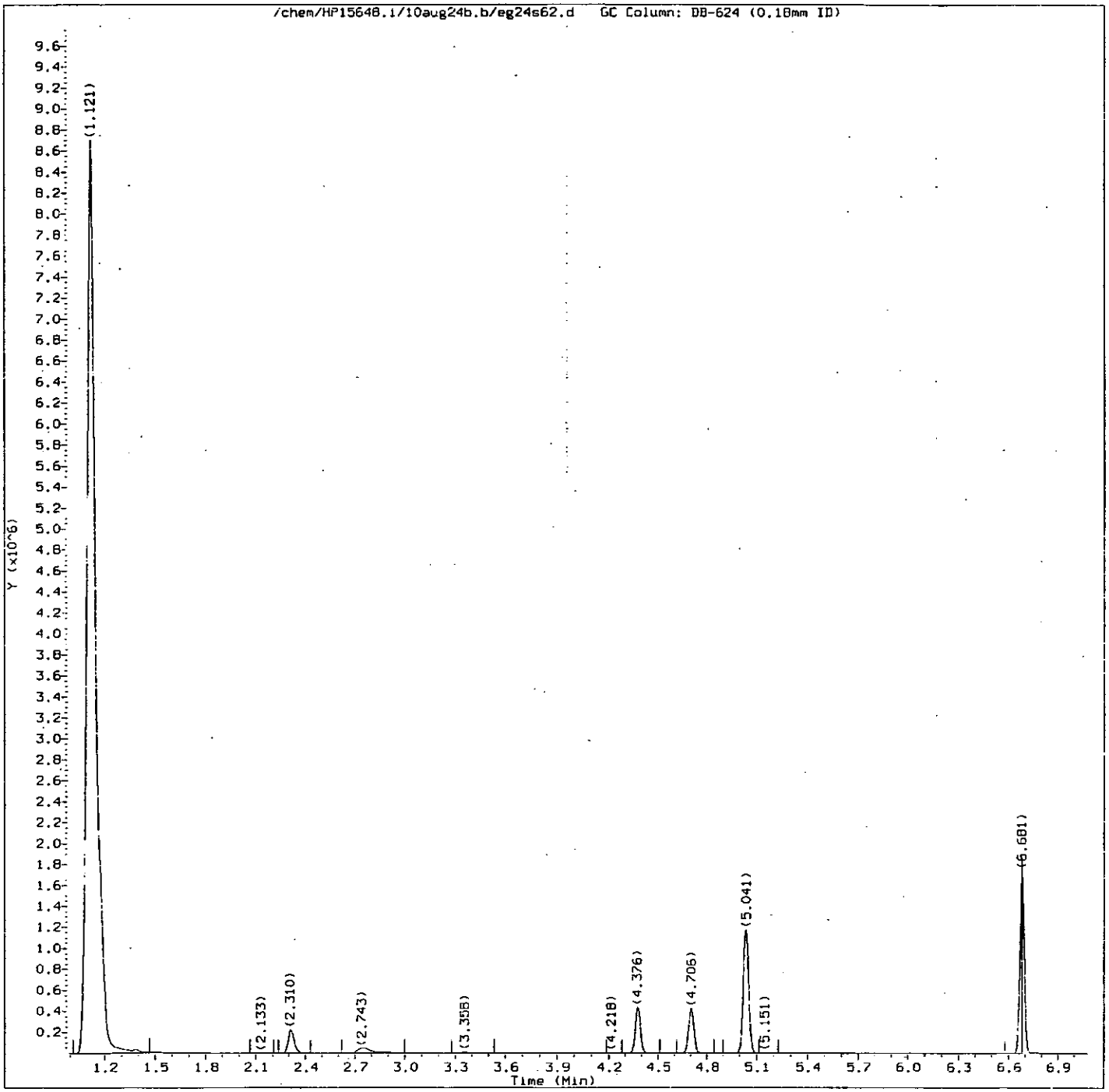
Total number of targets = 63

Comments:

Digitally signed by Sara E. Johnson on 08/24/2010 at 22:45. Target 3.5 esignature user ID: sej02002

PTL66 0079

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

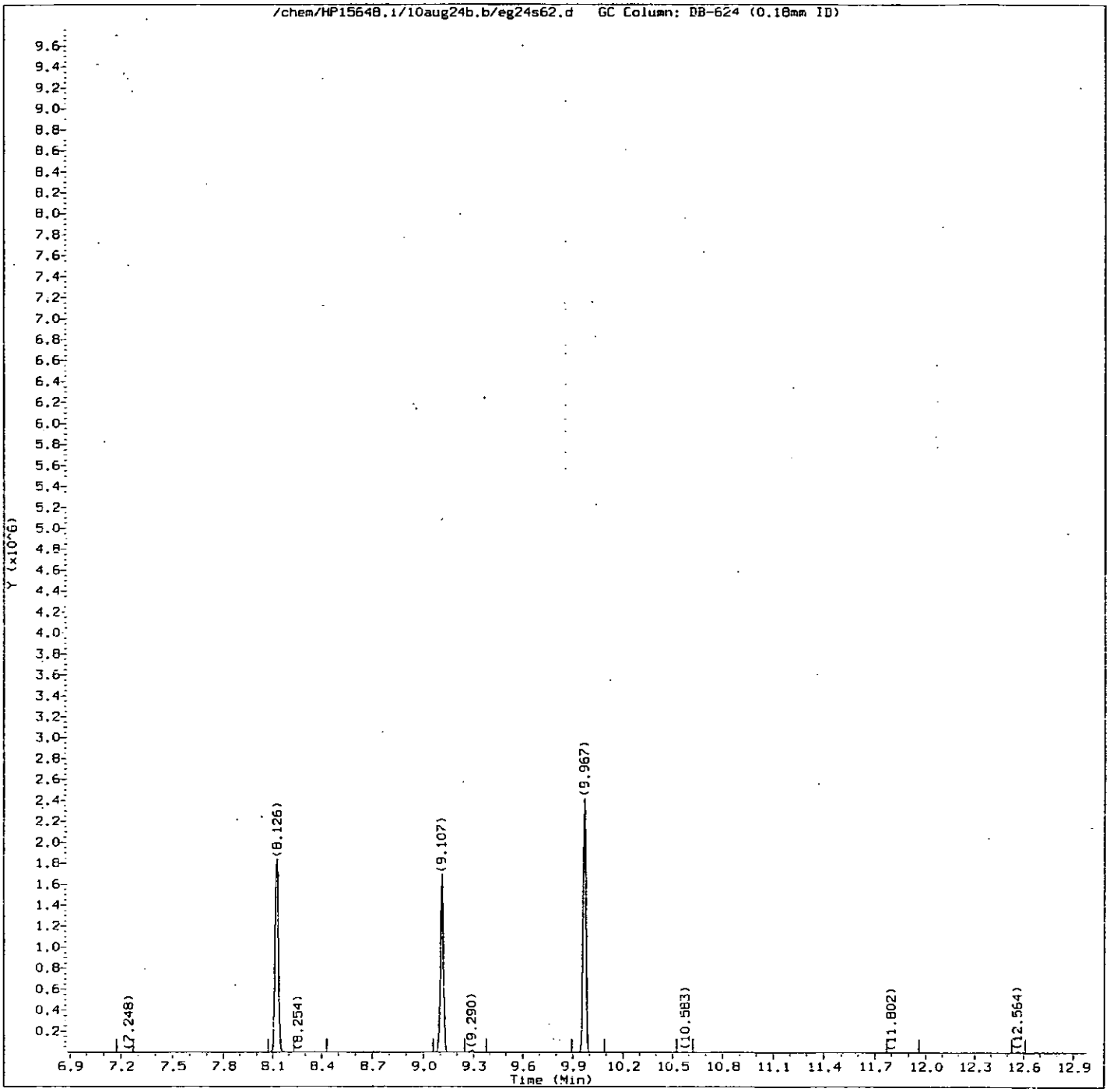
Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s62.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 21:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:45 sej02002

Sample Name: XXXXX Lab Sample ID: 6061433 PTL86 0868

Digitally signed by Sara E. Johnson
on 08/24/2010 at 22:45.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s62.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 21:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:45 sej02002

Sample Name: XXXXX Lab Sample ID: 6061433 PTL86 0001

Digitally signed by Sara E. Johnson
on 08/24/2010 at 22:45.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s62.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 21:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:45 sej02002

Sample Name: XXXXX Lab Sample ID: 6061433

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.310	96	98715	13.376
25)*t-Butyl Alcohol-d10	(4)	2.743	65	156448	250.000
33) 1,1-Dichloroethane	(1)	3.352	63	14453	1.051
50)$Dibromofluoromethane	(1)	4.376	113	287656	49.384
59)$1,2-Dichloroethane-d4	(1)	4.706	102	77461	50.084
69)*Fluorobenzene	(1)	5.041	96	1302698	50.000
90)$Toluene-d8	(2)	6.681	98	1276675	49.680
103)*Chlorobenzene-d5	(2)	8.126	117	929282	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	452732	49.659
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	502639	50.000

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

PTL86 0882

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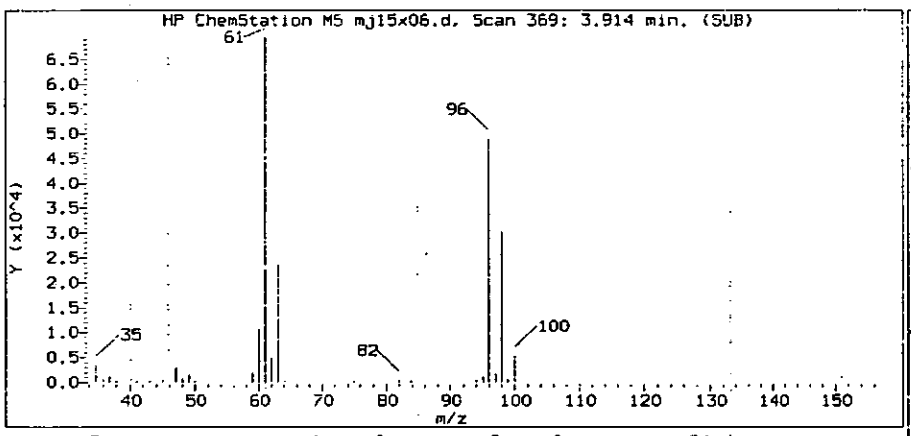
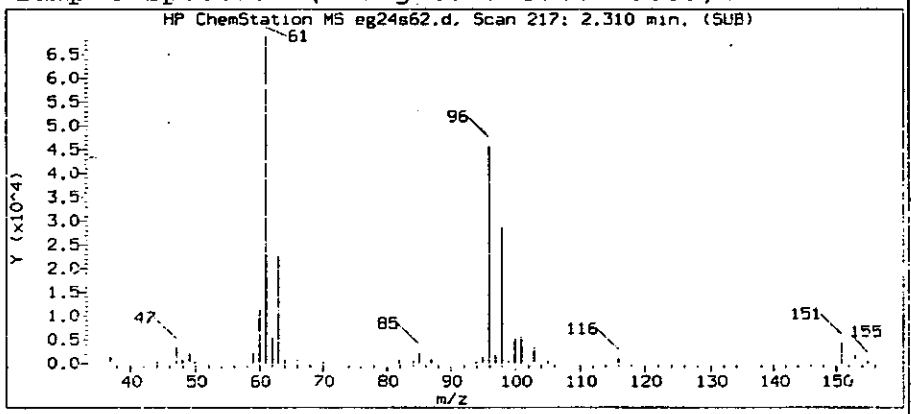
on 08/24/2010 at 22:45.
Target 3.5 esignature user ID: sej02002

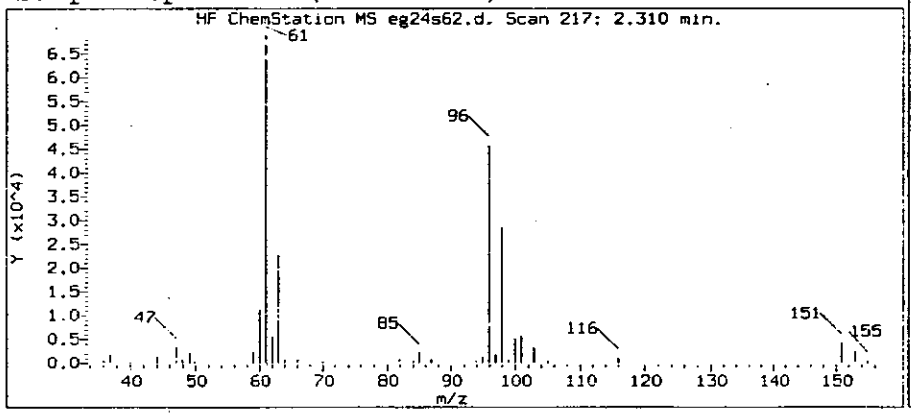
Reference Standard Spectrum for 1,1-Dichloroethene

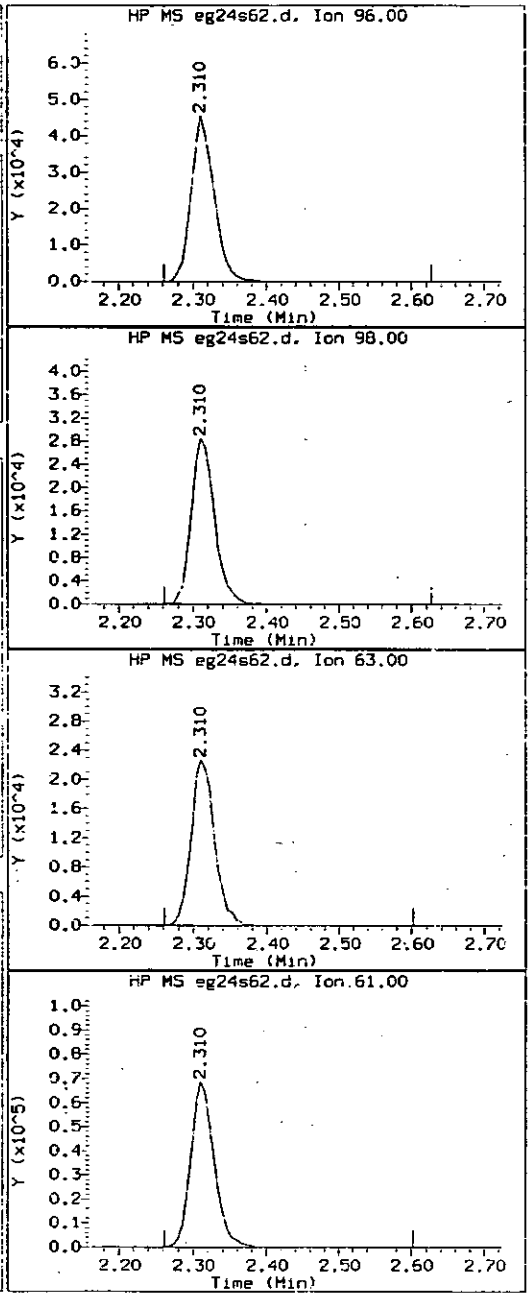


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s62.d
Injection date and time: 24-AUG-2010 21:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 22:45 sej02002

Sample Name: XXXXX

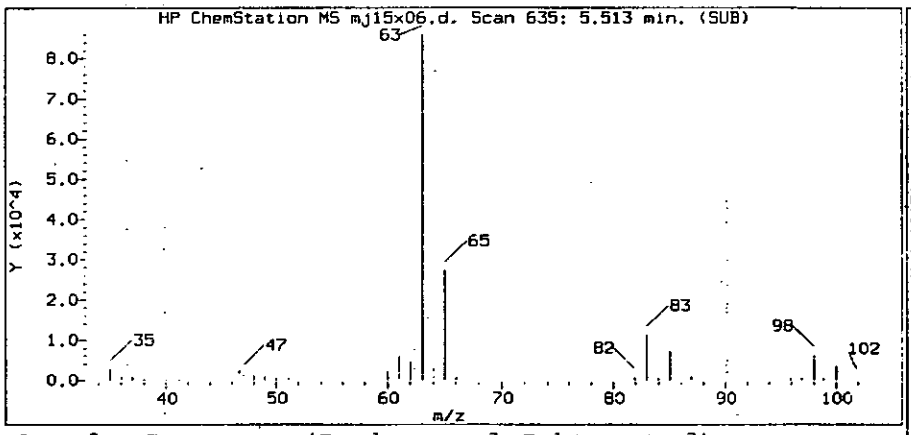
Lab Sample ID: 6061433

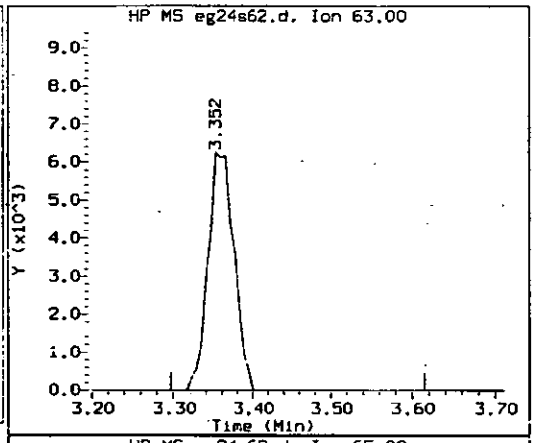
Compound Number : 15
Compound Name : 1,1-Dichloroethene
Scan Number : 217
Retention Time (minutes): 2.310
Relative Retention Time : 0.003
Quant Ion : 96.00
Area (flag) : 98715
On-Column Amount (ng) : 13.3757

PTL06 0083

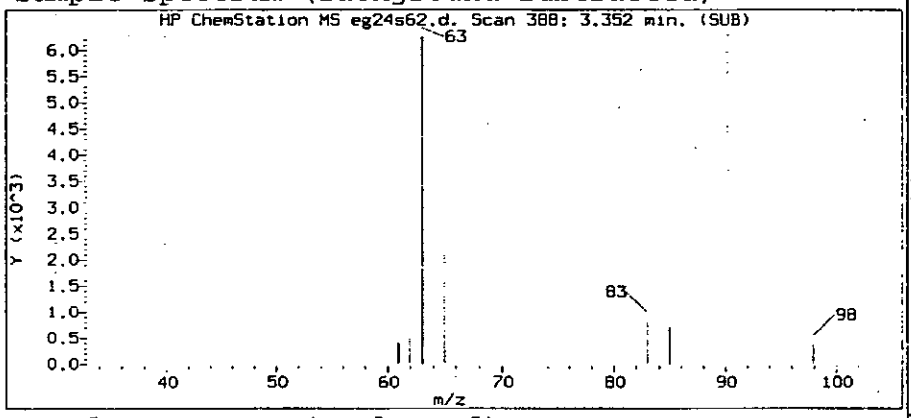
Digitally signed by Sara E. Johnson on 08/24/2010 at 22:45.
Target 3.5 esignature user ID: sej02002

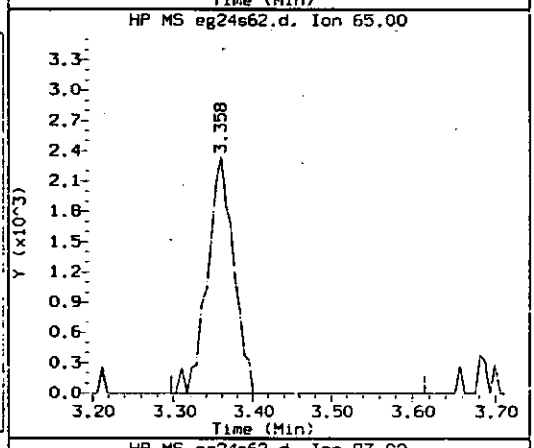
Reference Standard Spectrum for 1,1-Dichloroethane



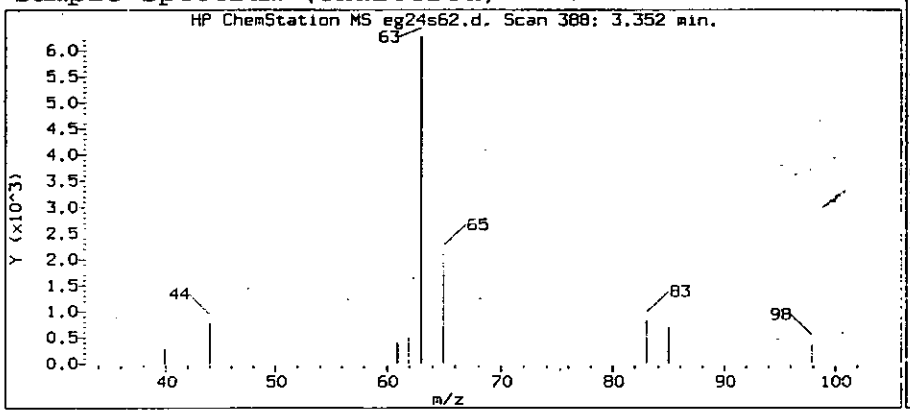


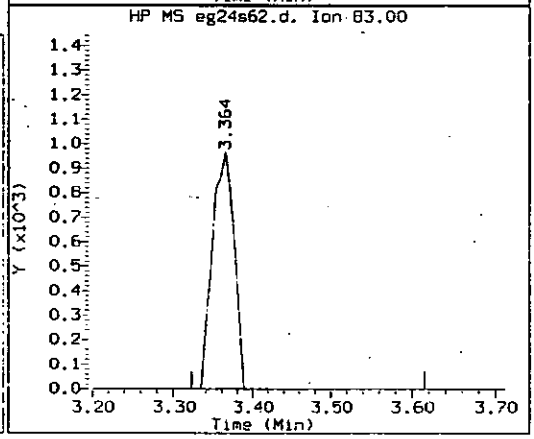
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s62.d
Injection date and time: 24-AUG-2010 21:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 22:45 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061433

Compound Number : 33
Compound Name : 1,1-Dichloroethane
Scan Number : 388
Retention Time (minutes): 3.352
Relative Retention Time : 0.002
Quant Ion : 63.00
Area (flag) : 14453
On-Column Amount (ng) : 1.0513

PTL06 0084

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Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061434

Data file: /chem/HP15648.i/10aug24b.b/eg24s63.d
Data file Sample Info. Line: XXXXX;6061434;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 22:46 sej02002

Injection date and time: **24-AUG-2010 21:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.006)	291	65	157464 (-20)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1302703 (4)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	924021 (5)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	499127 (3)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.382(0.000)	113	291748	50.086	100%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(-0.001)	102	78921	51.028	102%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1283212	50.218	100%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	448354	49.459	99%		76 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.322(0.000)	96	175373	23.763	23.76			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.370(-0.000)	63	20759	1.510	1.51			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)	4.230(-0.001)	83	10016	0.823	0.82			0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 0085

Digitally signed by Sara E. Johnson on 08/24/2010 at 22:46. Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061434

Data file: /chem/HP15648.i/10aug24b.b/eg24s63.d
Data file Sample Info. Line: XXXXX;6061434;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 22:46 sej02002

Injection date and time: **24-AUG-2010 21:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

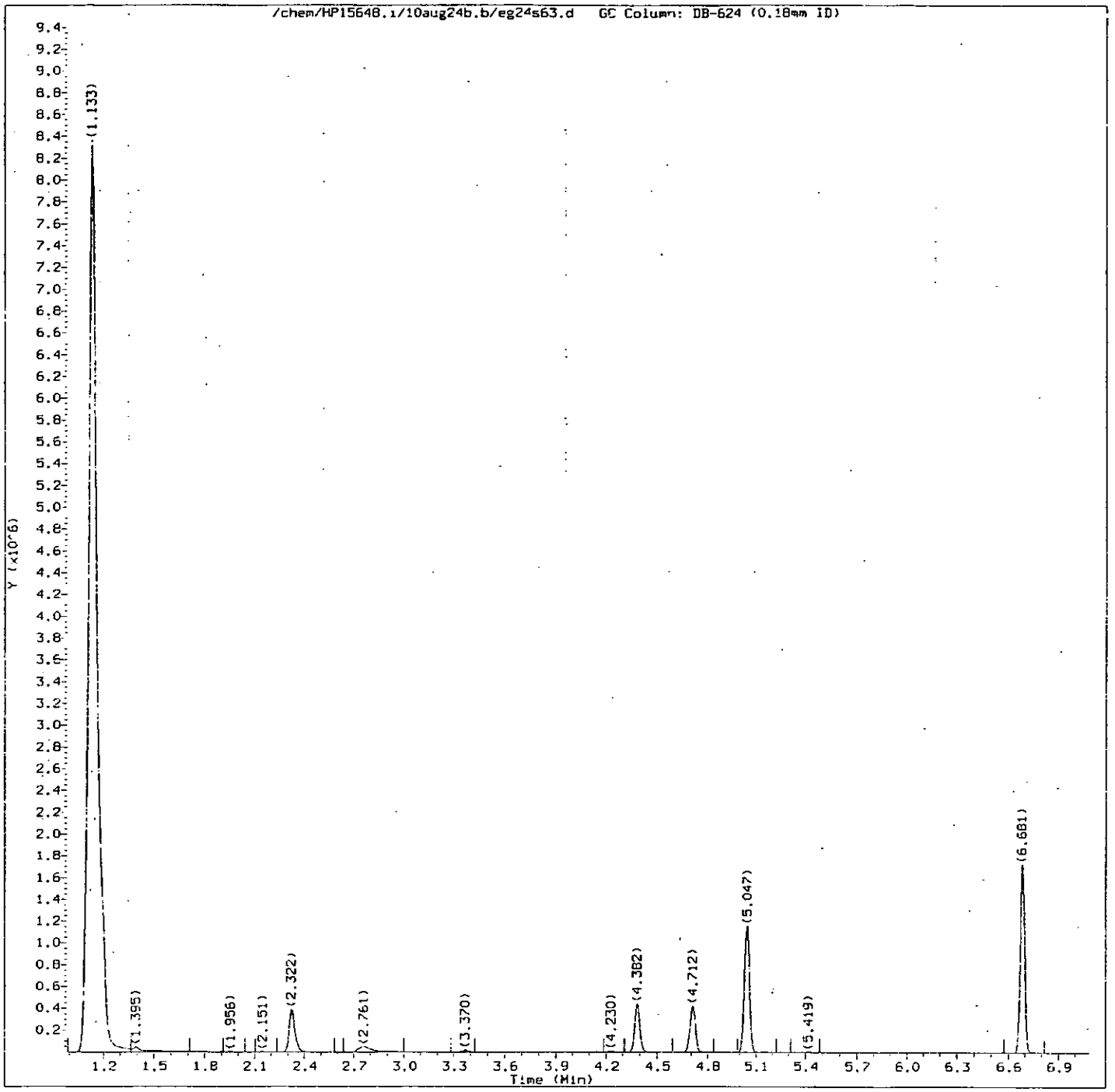
Total number of targets = 63

Comments:

Digitally signed by Sara E. Johnson on 08/24/2010 at 22:46. Target 3.5 esignature user ID: sej02002

PTL06 0006

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

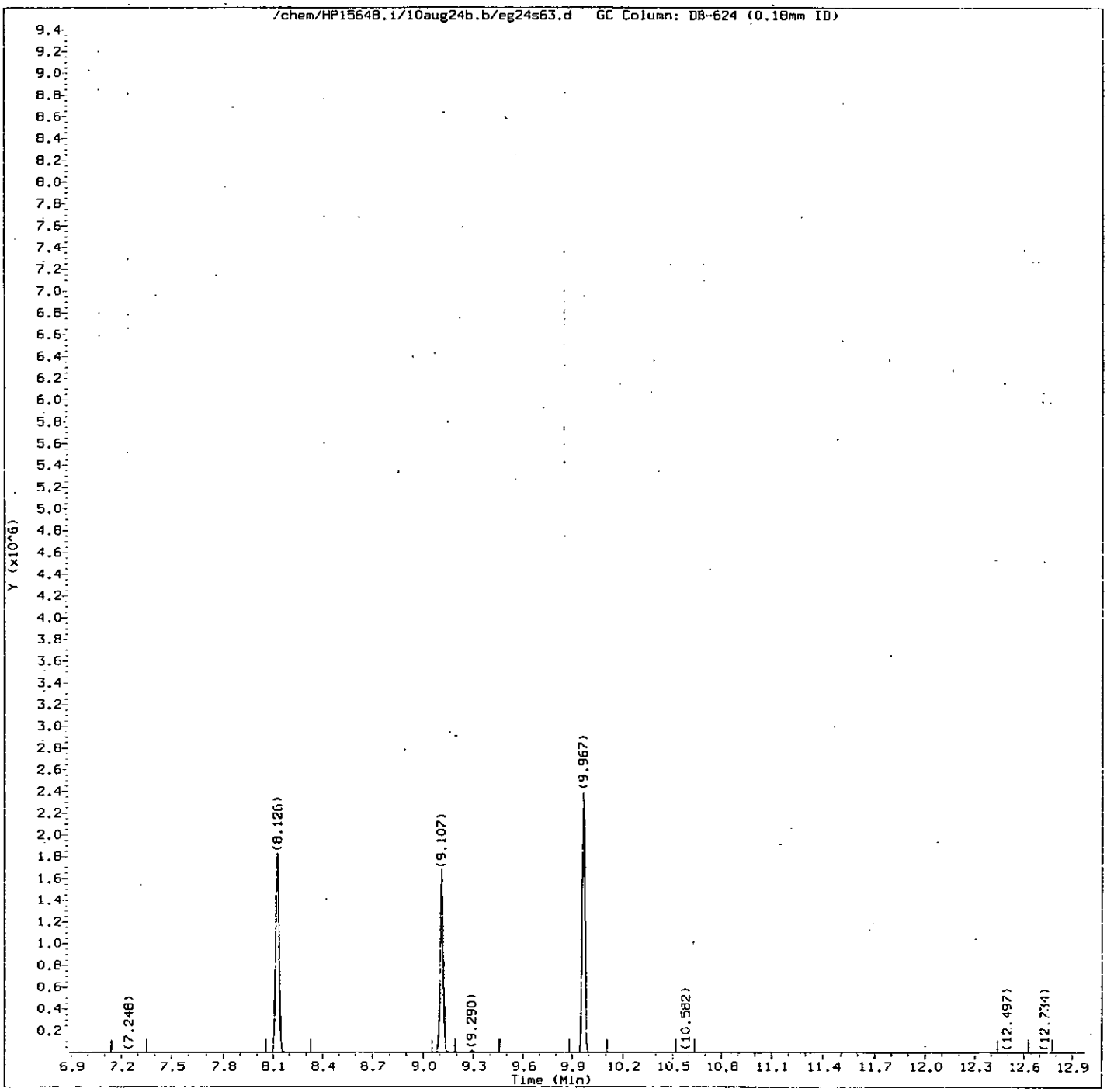
Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s63.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 21:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:46 sej02002

Sample Name: XXXXX Lab Sample ID: 6061434 PTL86 0007

Digitally signed by Sara E. Johnson
on 08/24/2010 at 22:46.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s63.d
Injection date and time: 24-AUG-2010 21:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 22:46 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061434

PTL06 0088

Digitally signed by Sara E. Johnson
on 08/24/2010 at 22:46.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s63.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 21:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:46 sej02002

Sample Name: XXXXX Lab Sample ID: 6061434

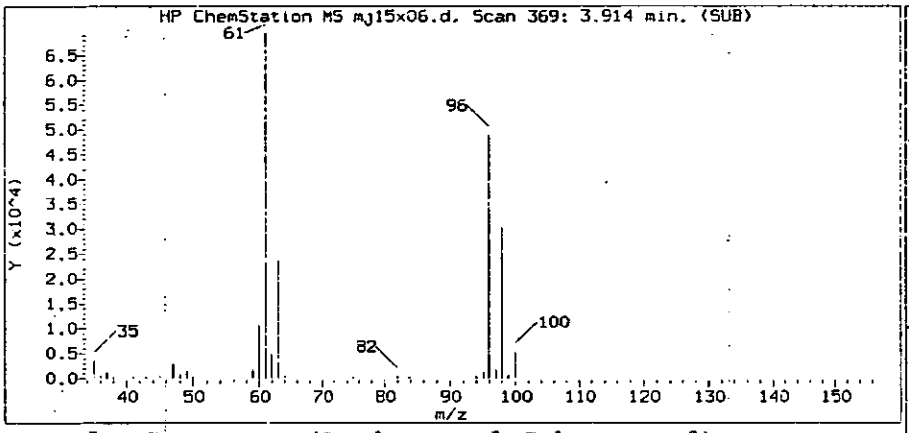
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.322	96	175373	23.763
25)*t-Butyl Alcohol-d10	(4)	2.761	65	157464	250.000
33) 1,1-Dichloroethane	(1)	3.370	63	20759	1.510
47) Chloroform	(1)	4.230	83	10016	0.823
50)$Dibromofluoromethane	(1)	4.382	113	291748	50.086
59)$1,2-Dichloroethane-d4	(1)	4.712	102	78921	51.028
69)*Fluorobenzene	(1)	5.041	96	1302703	50.000
90)$Toluene-d8	(2)	6.681	98	1283212	50.218
103)*Chlorobenzene-d5	(2)	8.126	117	924021	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	448354	49.459
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	499127	50.000

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

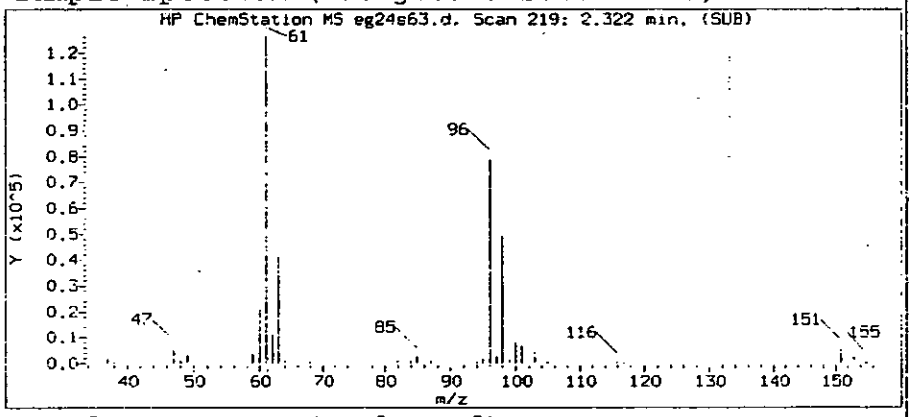
PTL86 0089

Digitally signed by Sara E. Johnson
on 08/24/2010 at 22:46.
Target 3.5 esignature user ID: sej02002

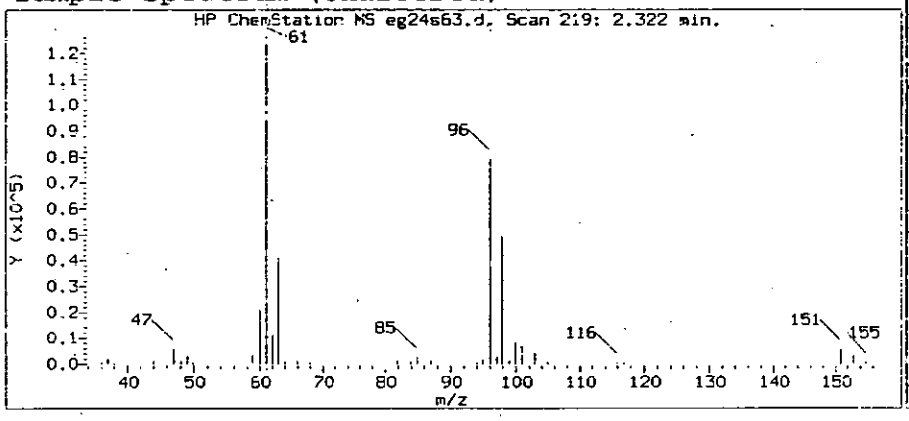
Reference Standard Spectrum for 1,1-Dichloroethene

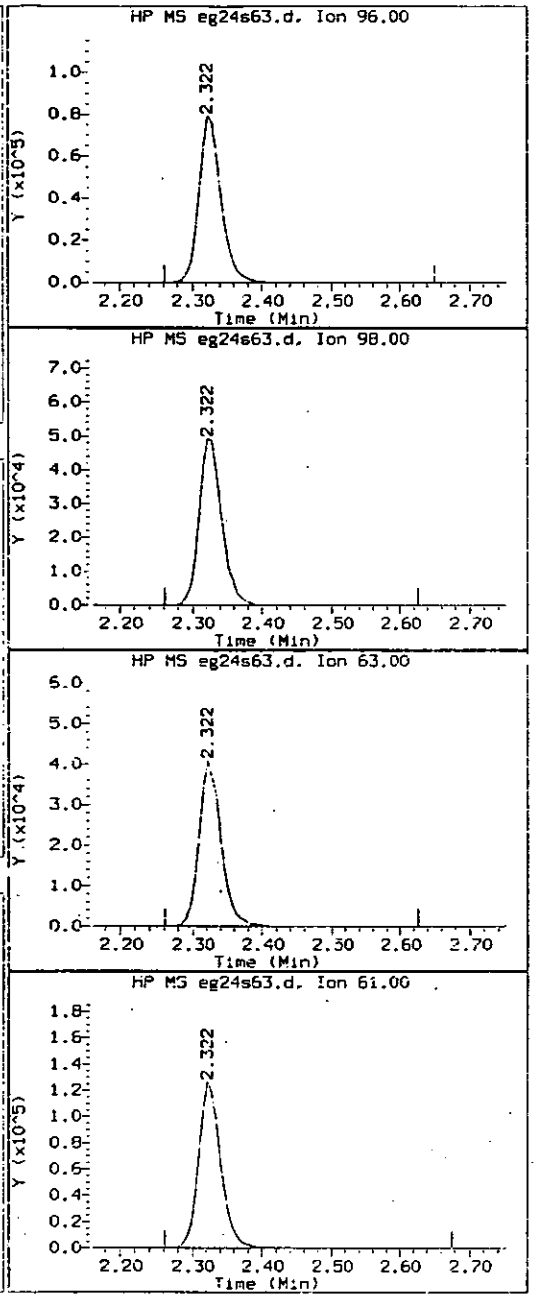


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s63.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 21:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:46 sej02002

Sample Name: XXXXX Lab Sample ID: 6061434

Compound Number : 15
Compound Name : 1,1-Dichloroethene
Scan Number : 219
Retention Time (minutes): 2.322
Relative Retention Time : 0.000
Quant Ion : 96.00
Area (flag) : 175373
On-Column Amount (ng) : 23.7626

PTL06 0090

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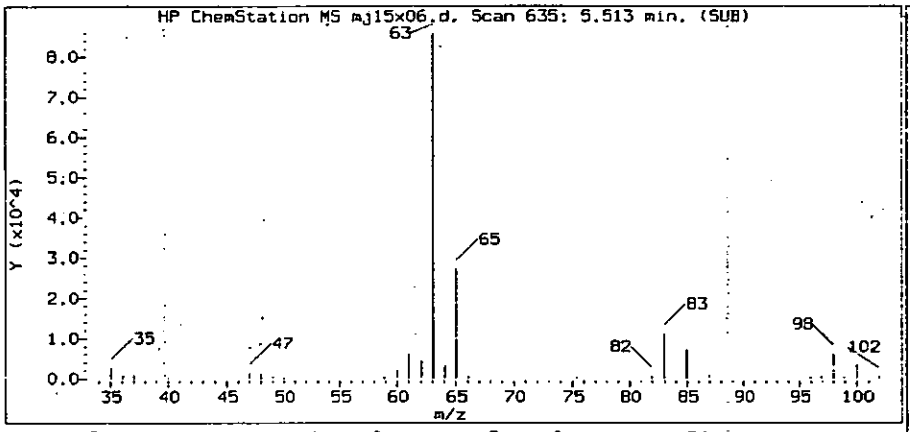
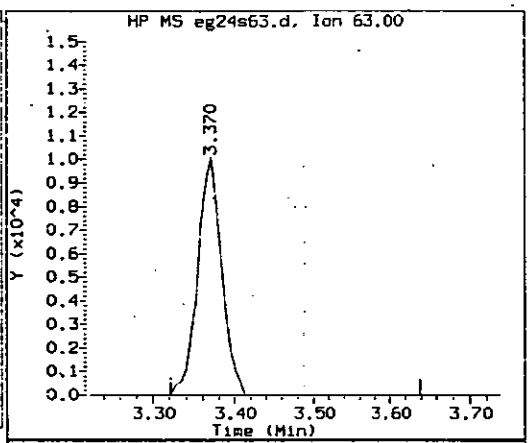
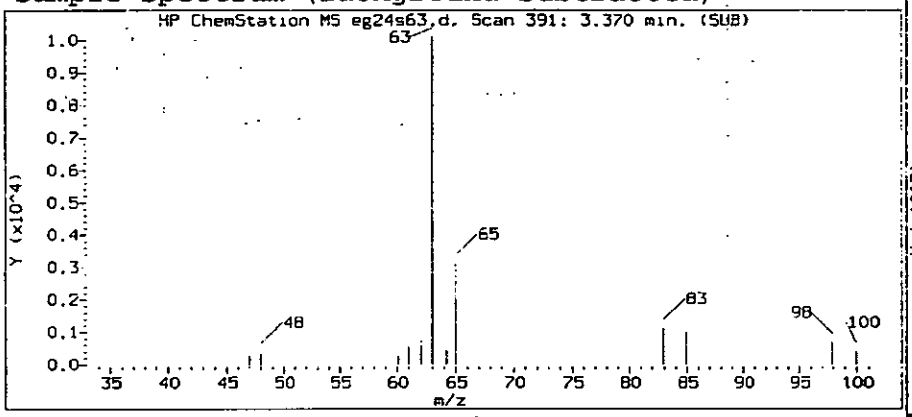
Target 3.5 esignature user ID: sej02002

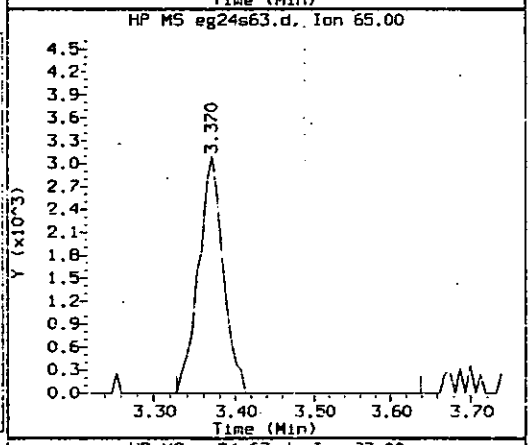
Reference Standard Spectrum for 1,1-Dichloroethane



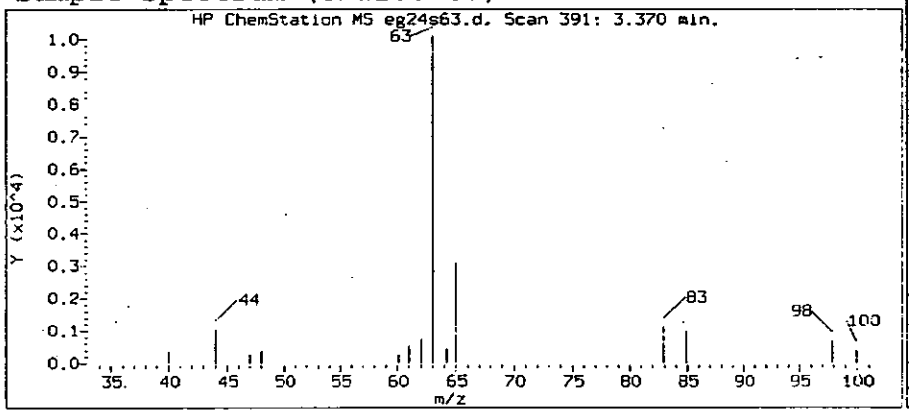


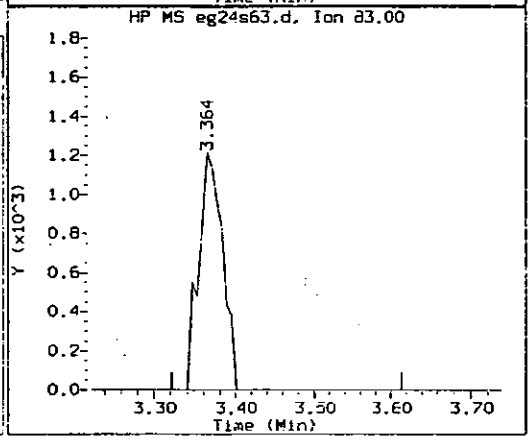
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s63.d
Injection date and time: 24-AUG-2010 21:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 22:46 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061434

Compound Number : 33
Compound Name : 1,1-Dichloroethane
Scan Number : 391
Retention Time (minutes): 3.370
Relative Retention Time : -0.000
Quant Ion : 63.00
Area (flag) : 20759
On-Column Amount (ng) : 1.5100

PTL86 0891

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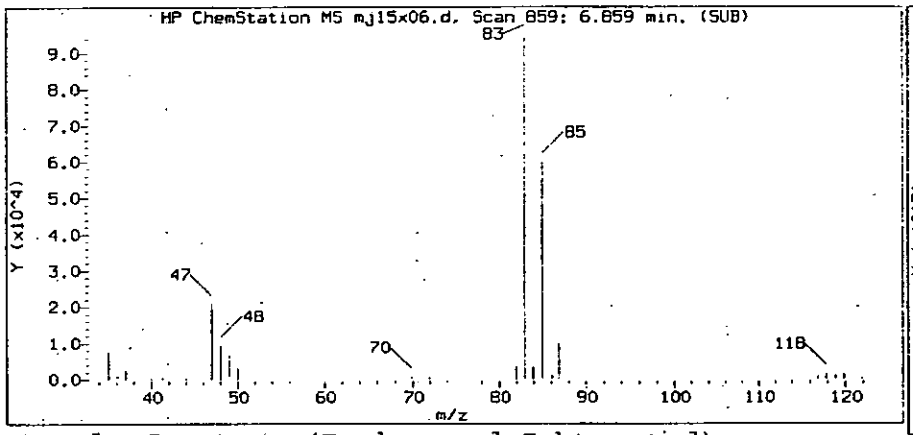
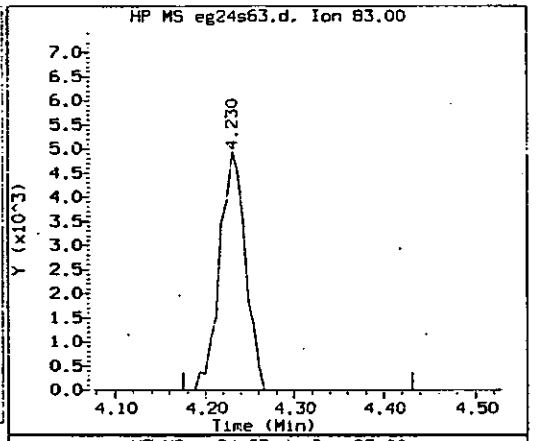
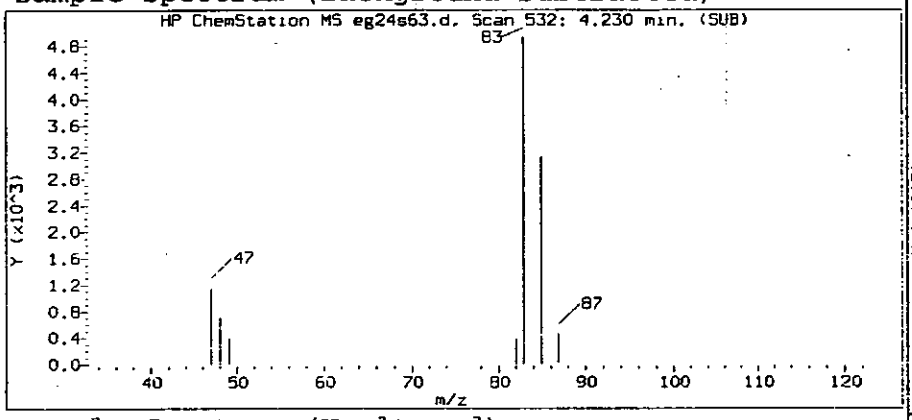
Target 3.5 esignature user ID: sej02002

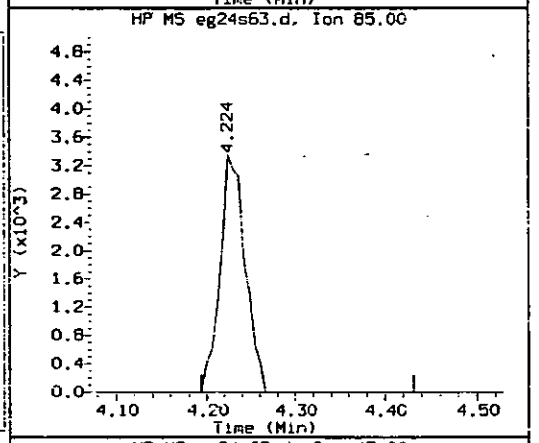
Reference Standard Spectrum for Chloroform



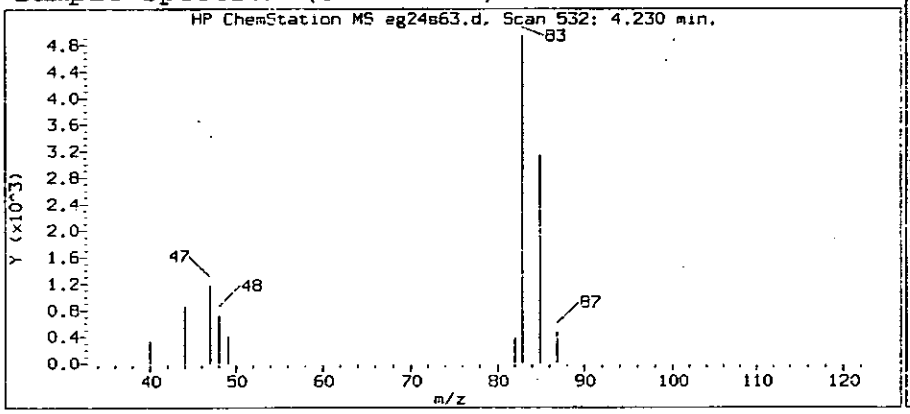


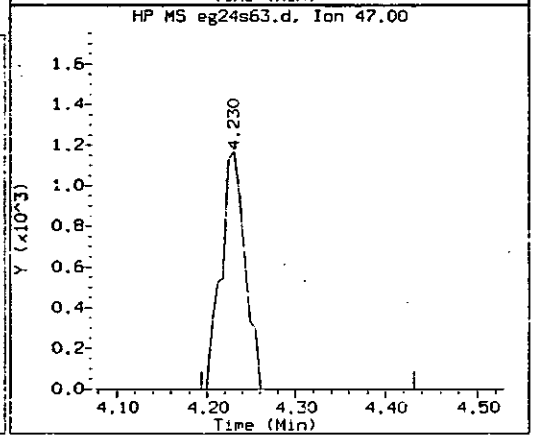
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s63.d
Injection date and time: 24-AUG-2010 21:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 22:46 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061434

Compound Number	: 47
Compound Name	: Chloroform
Scan Number	: 532
Retention Time (minutes)	: 4.230
Relative Retention Time	: -0.001
Quant Ion	: 83.00
Area (flag)	: 10016
On-Column Amount (ng)	: 0.8226

PTL06 0092

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Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061435

Data file: /chem/HP15648.i/10aug24b.b/eg24s64.d
Data file Sample Info. Line: XXXXX;6061435;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 22:48 sej02002

Injection date and time: **24-AUG-2010 22:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.012)	290	65	201133 (2)	250.00	
69) Fluorobenzene	5.047(0.000)	666	96	1239804 (-1)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	878762 (0)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	476813 (-2)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.383(0.001)	113	272395	49.136	98%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(0.000)	102	74276	50.461	101%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1224490	50.368	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	428036	49.649	99%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)			Not Detected					0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)			Not Detected					1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 0093

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XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061435

Data file: /chem/HP15648.i/10aug24b.b/eg24s64.d
Data file Sample Info. Line: XXXXX;6061435;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 22:48 sej02002

Injection date and time: **24-AUG-2010 22:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m-p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(2)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

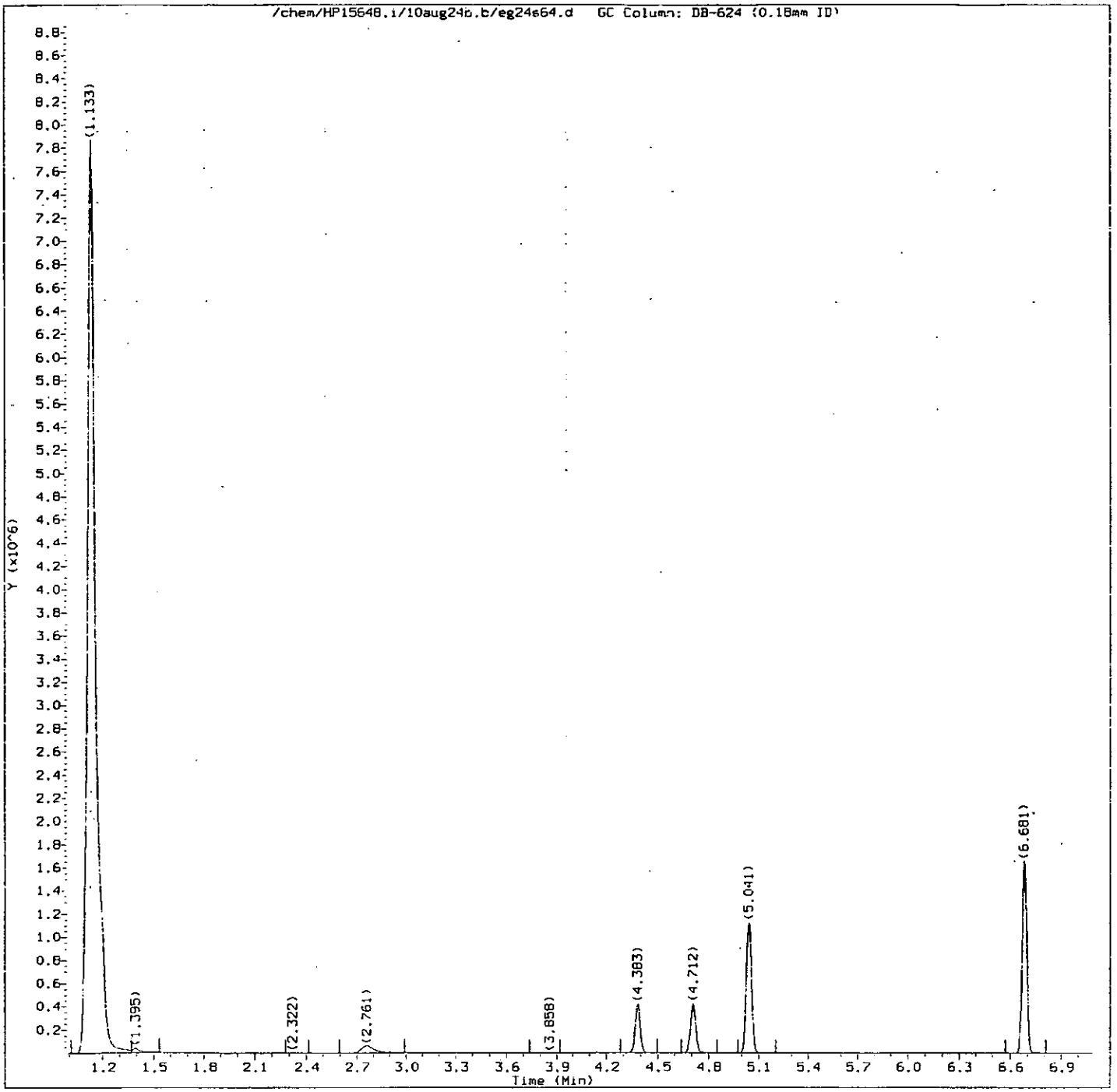
Total number of targets = 63

Comments: _____

PTL86 0094

Digitally signed by Sara E. Johnson on 08/24/2010 at 22:48. Target 3.5 esignature user ID: sej02002

Auditor: _____ Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s64.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 22:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:48 sej02002

Sample Name: XXXXX Lab Sample ID: 6061435 PTL86 8895

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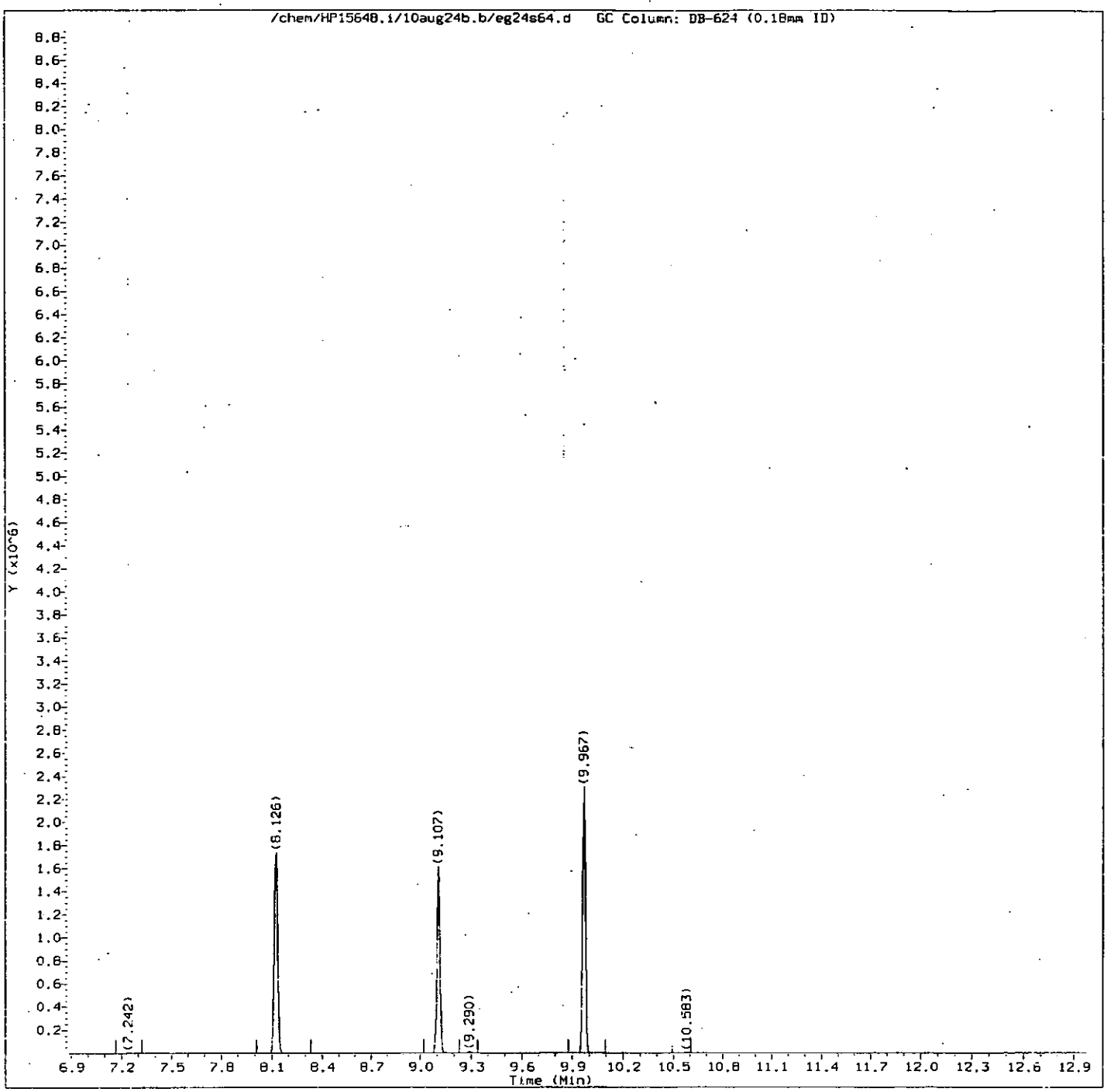
on 08/24/2010 at 22:48.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s64.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 22:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:48 sej02002

Sample Name: XXXXX Lab Sample ID: 6061435 PTL05 8896

Digitally signed by Sara E. Johnson
on 08/24/2010 at 22:48.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s64.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 22:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:48 sej02002

Sample Name: XXXXX Lab Sample ID: 6061435

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
25)*t-Butyl Alcohol-d10	(4)	2.755	65	201133	250.000
50)$Dibromofluoromethane	(1)	4.383	113	272395	49.136
59)$1,2-Dichloroethane-d4	(1)	4.712	102	74276	50.461
69)*Fluorobenzene	(1)	5.047	96	1239804	50.000
90)$Toluene-d8	(2)	6.681	98	1224490	50.388
103)*Chlorobenzene-d5	(2)	8.126	117	878762	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	428036	49.649
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	476813	50.000

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

FTL86 0897

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on 08/24/2010 at 22:48.
Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061436

Data file: /chem/HP15648.i/10aug24b.b/eg24s65.d
Data file Sample Info. Line: XXXXX;6061436;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 22:49 sej02002

Injection date and time: **24-AUG-2010 22:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.767(0.000)	292	65	161903 (-18)	250.00	
69) Fluorobenzene	5.047(0.000)	666	96	1301792 (4)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	924066 (5)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	505361 (4)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.389(0.000)	113	293649	50.448	101%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.706(0.001)	102	89075	51.810	104%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1290639	50.507	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	450939	49.742	99%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.322(0.001)	96	18704	2.536	2.54			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)			Not Detected					1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)	4.230(0.000)	83	14392	1.183	1.18			0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL86 10698

Digitally signed by Sara E. Johnson on 08/24/2010 at 22:49. Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061436

Data file: /chem/HP15648.i/10aug24b.b/eg24s65.d
Data file Sample Info. Line: XXXXX;6061436;1;C;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 22:49 sej02002

Injection date and time: **24-AUG-2010 22:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

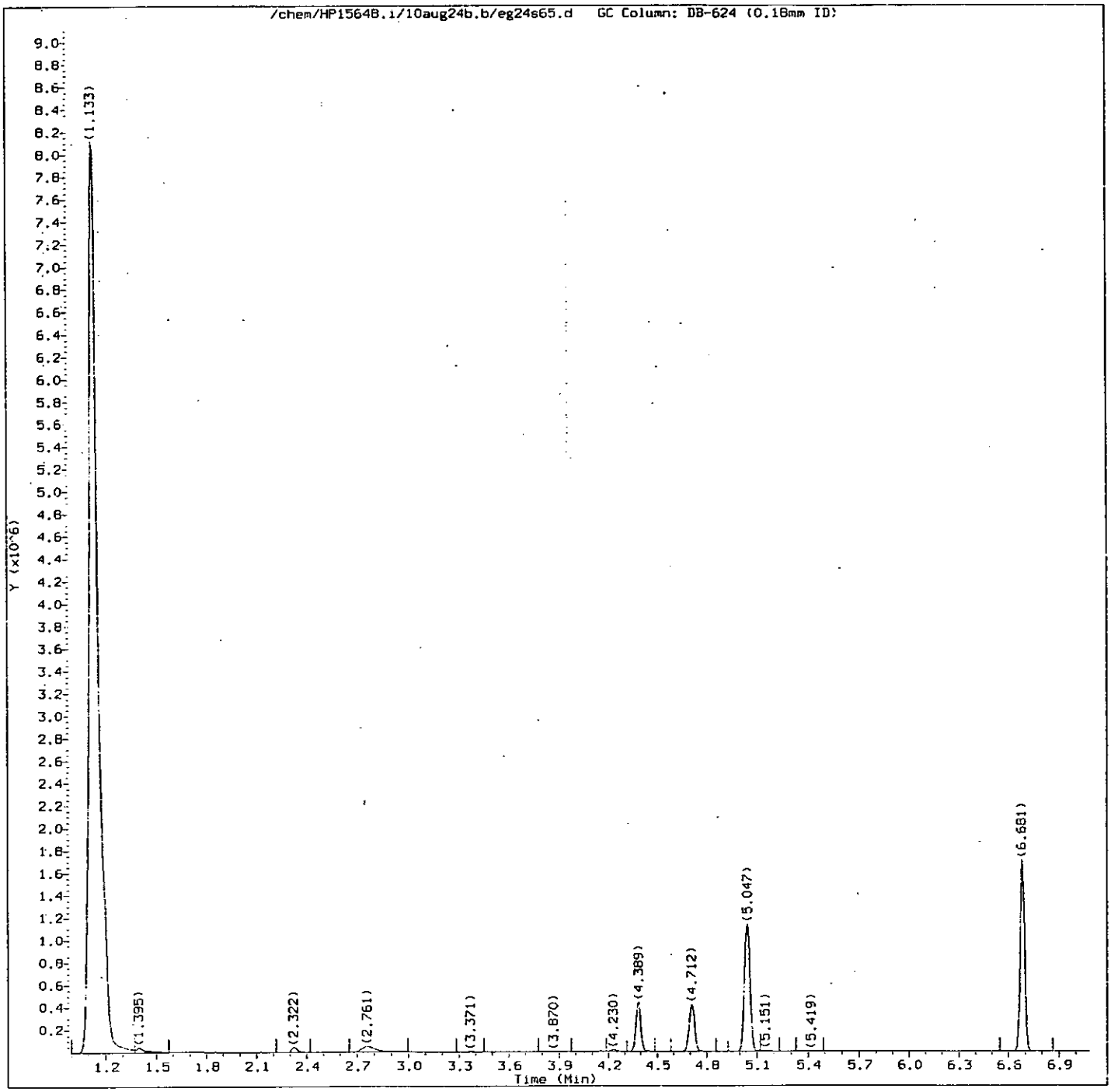
Total number of targets = 63

Comments:

PTL86 8899

Digitally signed by Sara E. Johnson on 08/24/2010 at 22:49. Target 3.5 esignature user ID: sej02002

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s65.d
Injection date and time: 24-AUG-2010 22:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

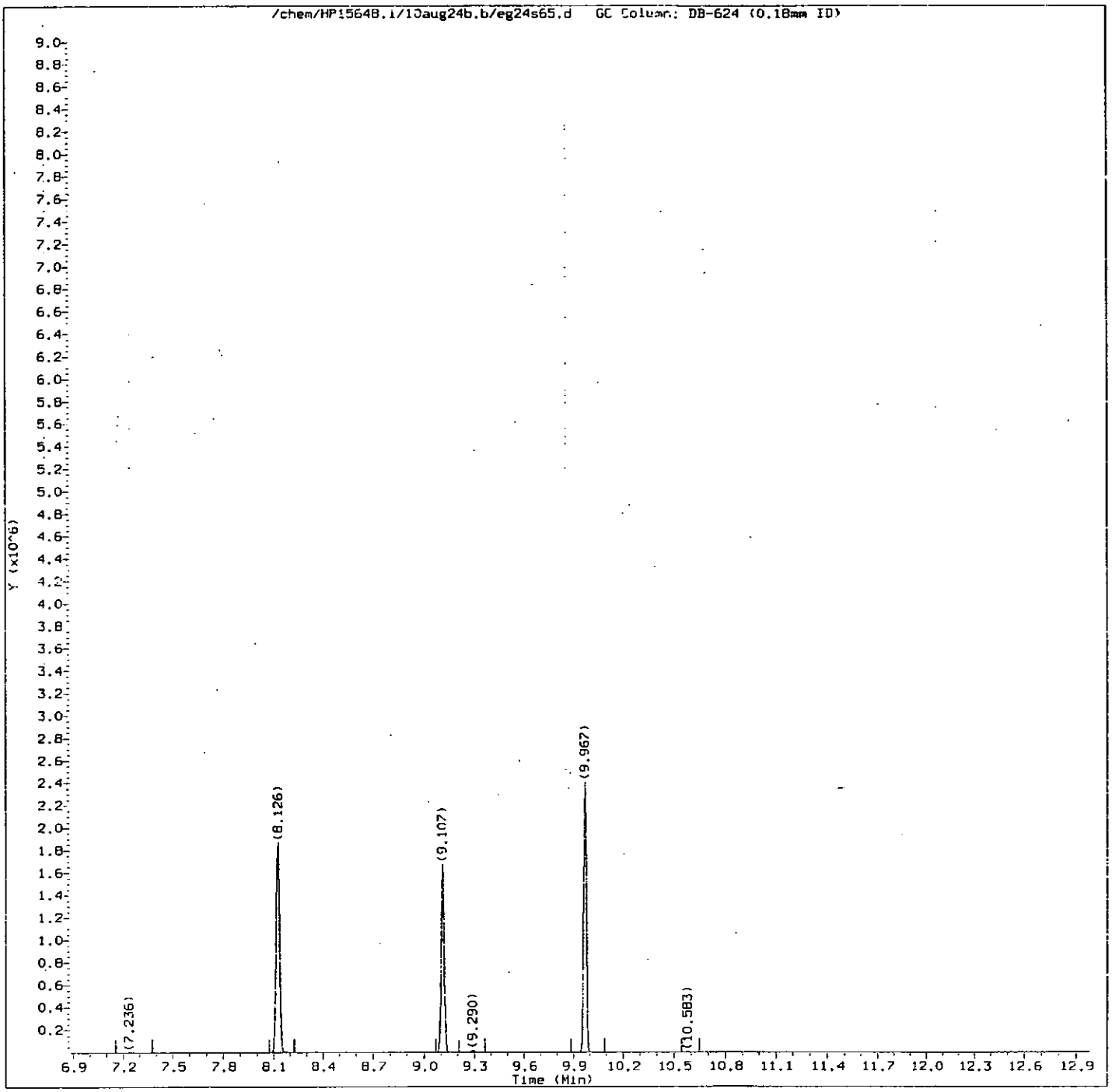
Date, time and analyst ID of latest file update: 24-Aug-2010 22:49 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061436

PTL06 0100

Digitally signed by Sara E. Johnson
on 08/24/2010 at 22:49.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s65.d
Injection date and time: 24-AUG-2010 22:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 22:49 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061436

PTL06 0181

Digitally signed by Sara E. Johnson
on 08/24/2010 at 22:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s65.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 22:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 22:49 sej02002

Sample Name: XXXXX Lab Sample ID: 6061436

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.322	96	18704	2.536
25)*t-Butyl Alcohol-d10	(4)	2.767	65	161903	250.000
47) Chloroform	(1)	4.230	83	14392	1.183
50)$Dibromofluoromethane	(1)	4.389	113	293649	50.448
59)$1,2-Dichloroethane-d4	(1)	4.706	102	80075	51.810
69)*Fluorobenzene	(1)	5.047	96	1301792	50.000
90)$Toluene-d8	(2)	6.681	98	1290639	50.507
103)*Chlorobenzene-d5	(2)	8.126	117	924066	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	450939	49.742
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	505361	50.000

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

PTL06 0102

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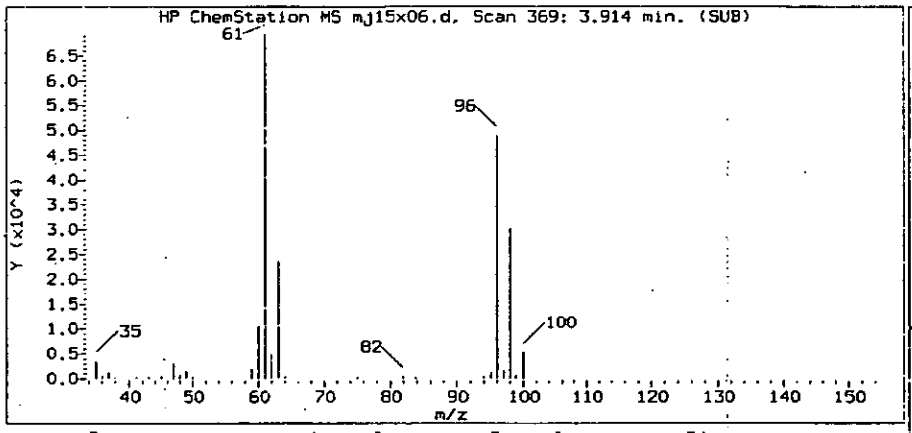
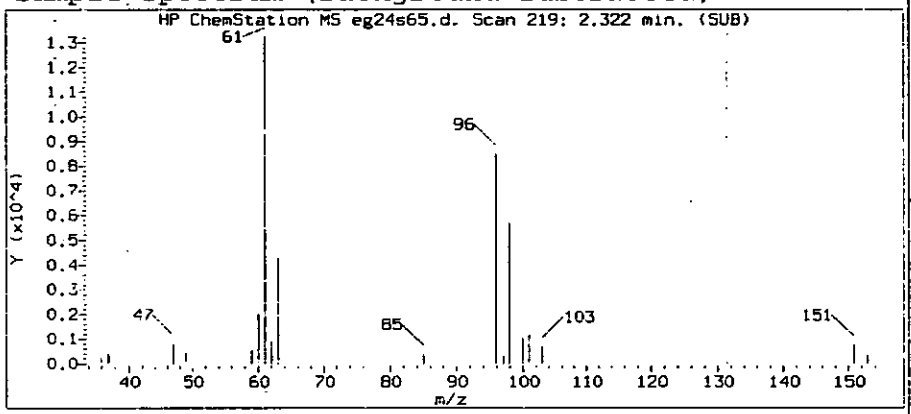
on 08/24/2010 at 22:49.
Target 3.5 esignature user ID: sej02002

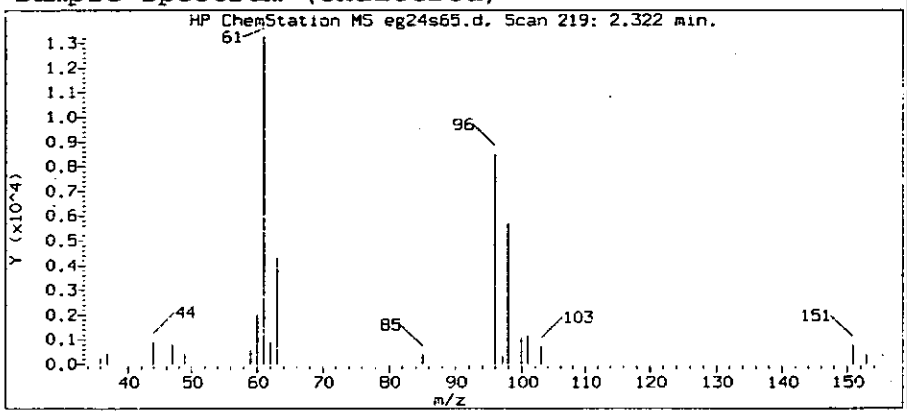
Reference Standard Spectrum for 1,1-Dichloroethene

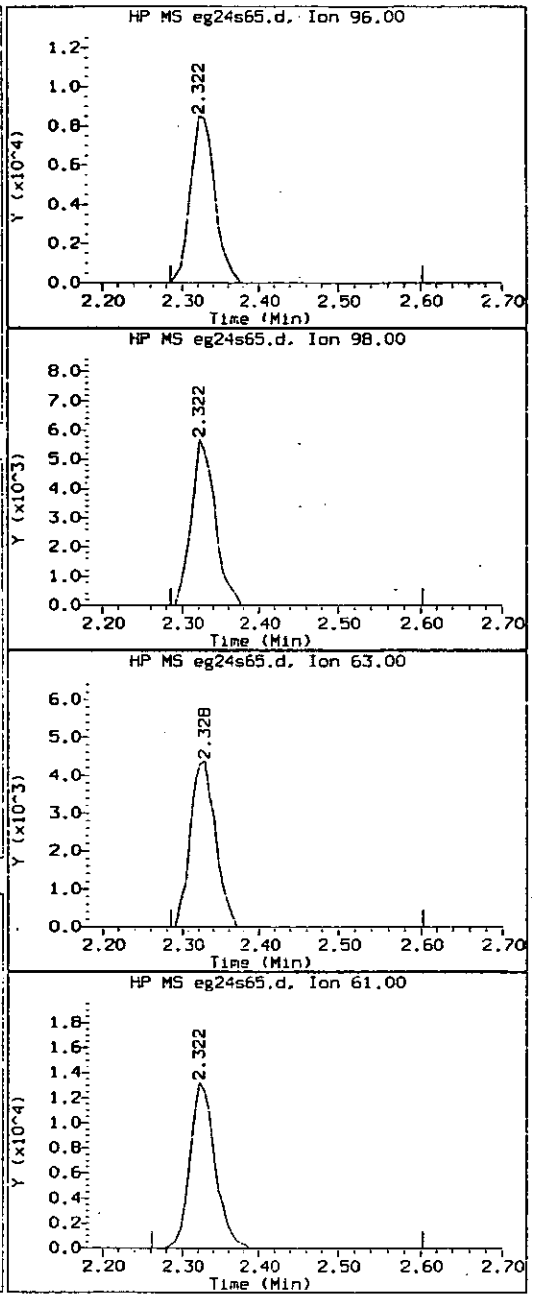


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s65.d
Injection date and time: 24-AUG-2010 22:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 22:49 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061436

Compound Number : 15
Compound Name : 1,1-Dichloroethene
Scan Number : 219
Retention Time (minutes): 2.322
Relative Retention Time : 0.001
Quant Ion : 96.00
Area (flag) : 18704
On-Column Amount (ng) : 2.5361

PTL86 0183

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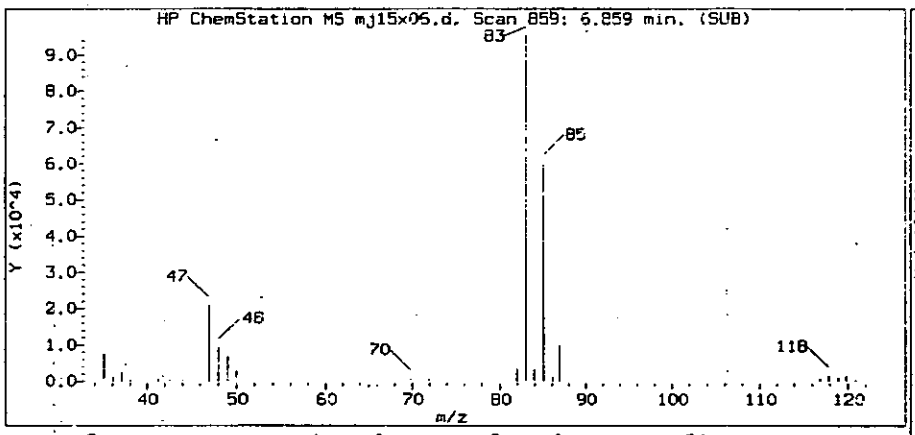
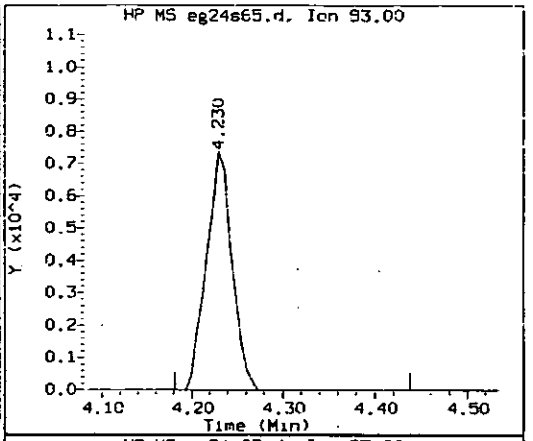
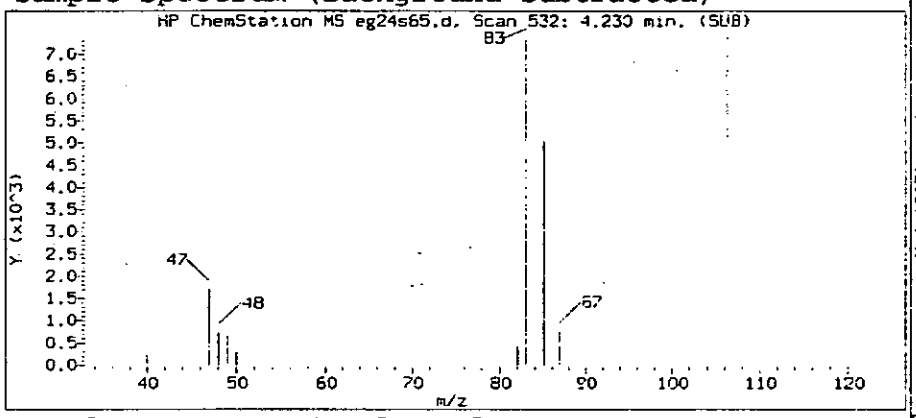
Target 3.5 esignature user ID: sej02002

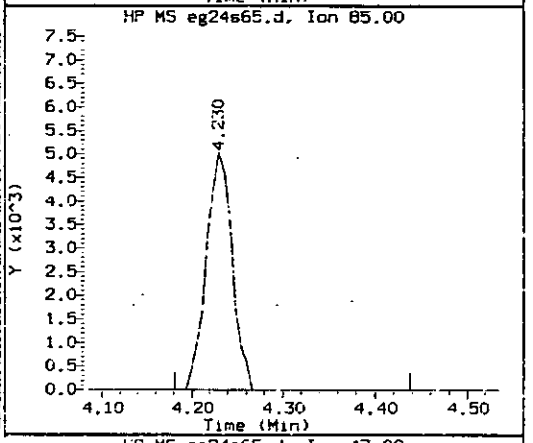
Reference Standard Spectrum for Chloroform



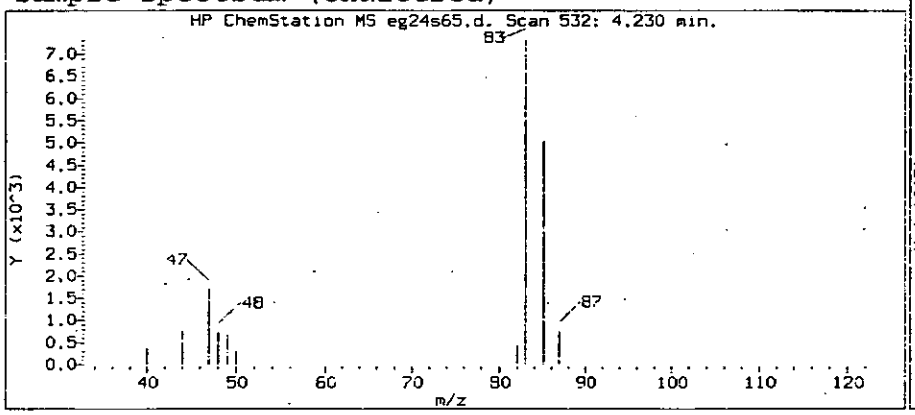


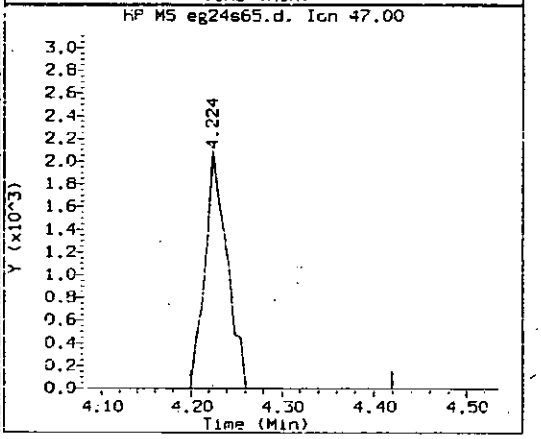
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s65.d
Injection date and time: 24-AUG-2010 22:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 22:49 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061436

Compound Number	: 47
Compound Name	: Chloroform
Scan Number	: 532
Retention Time (minutes)	: 4.230
Relative Retention Time	: 0.000
Quant Ion	: 83.00
Area (flag)	: 14392
On-Column Amount (ng)	: 1.1828

PTL06 0104

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Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061437

Data file: /chem/HP15648.i/10aug24b.b/eg24s66.d
Data file Sample Info. Line: XXXXX;6061437;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Injection date and time: **24-AUG-2010 22:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.006)	291	65	173976 (-11)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1305754 (4)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	921732 (5)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	498473 (3)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.383(0.000)	113	290606	49.774	100%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(-0.001)	102	77472	49.974	100%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1280553	50.239	100%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	457002	50.538	101%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.322(0.000)	96	51602	6.976	6.98			0.8
16) Acetone	(1)			Not Detected					5
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.370(-0.000)	63	23562	1.710	1.71			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)	4.407(0.000)	97	21626	1.840	1.84			0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL86 6185

Digitally signed by Jason M. Long on 08/25/2010 at 07:59. Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061437

Data file: /chem/HP15648.i/10aug24b.b/eg24s66.d
Data file Sample Info. Line: XXXXX;6061437;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Injection date and time: **24-AUG-2010 22:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

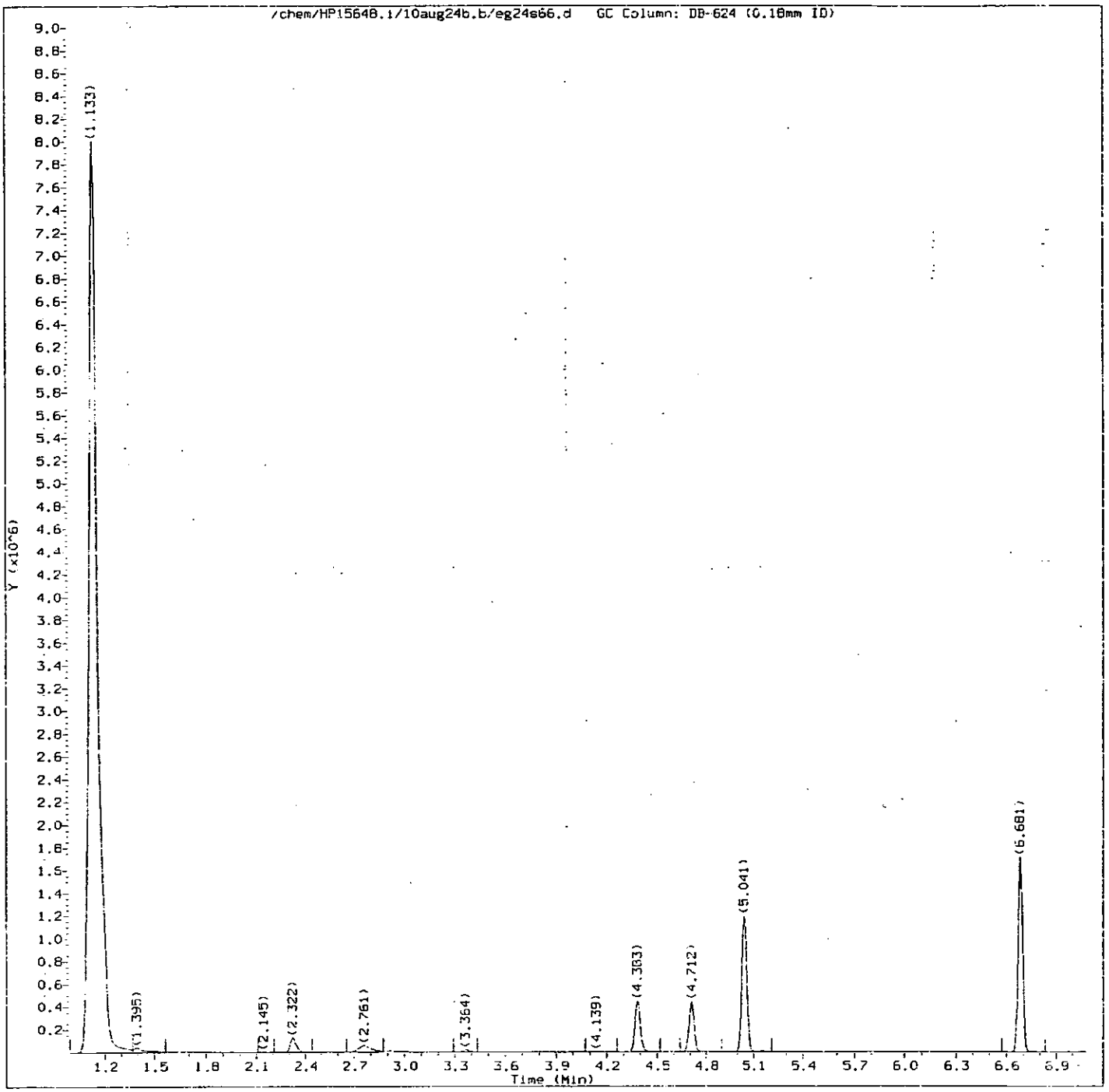
Total number of targets = 63

Comments:

Digitally signed by Jason M. Long on 08/25/2010 at 07:59. Target 3.5 esignature user ID: jml01693

PTL06 0186

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

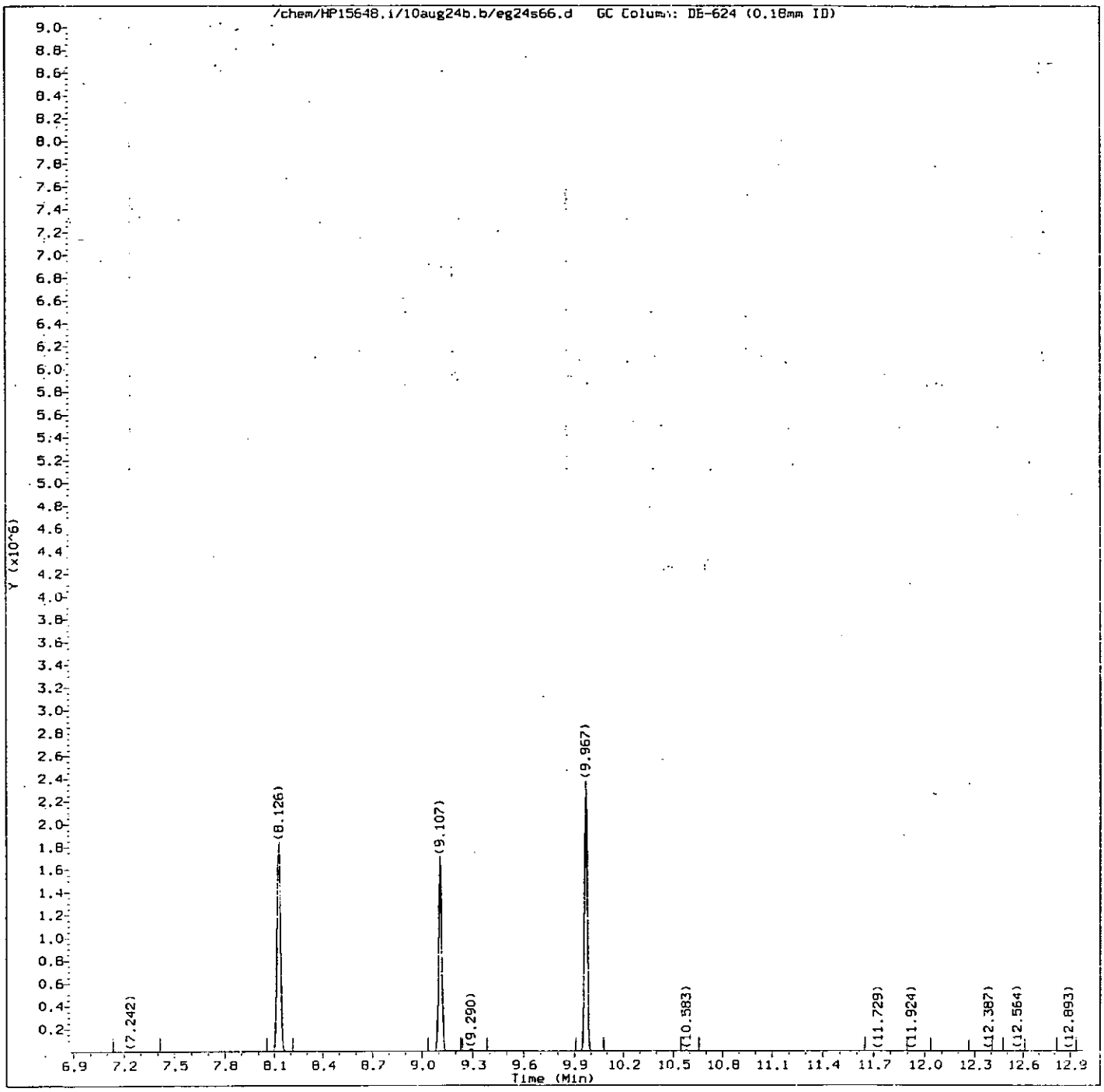
Data File: /chem/HP15648.i/10aug24b.b/eg24s66.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 22:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX Lab Sample ID: 6061437

PTL06 0187

Digitally signed by Jason M. Long
on 08/25/2010 at 07:59.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s66.d
Injection date and time: 24-AUG-2010 22:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061437

PTL86 0100

Digitally signed by Jason M. Long
on 08/25/2010 at 07:59.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s66.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 22:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX Lab Sample ID: 6061437

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.322	96	51602	6.976
25)*t-Butyl Alcohol-d10	(4)	2.761	65	173976	250.000
33) 1,1-Dichloroethane	(1)	3.371	63	23562	1.710
50)$Dibromofluoromethane	(1)	4.383	113	290606	49.774
52) 1,1,1-Trichloroethane	(1)	4.407	97	21626	1.840
59)$1,2-Dichloroethane-d4	(1)	4.712	102	77472	49.974
69)*Fluorobenzene	(1)	5.041	96	1305754	50.000
90)$Toluene-d8	(2)	6.681	98	1280553	50.239
103)*Chlorobenzene-d5	(2)	8.126	117	921732	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	457002	50.538
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	498473	50.000

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

PTL06 0189

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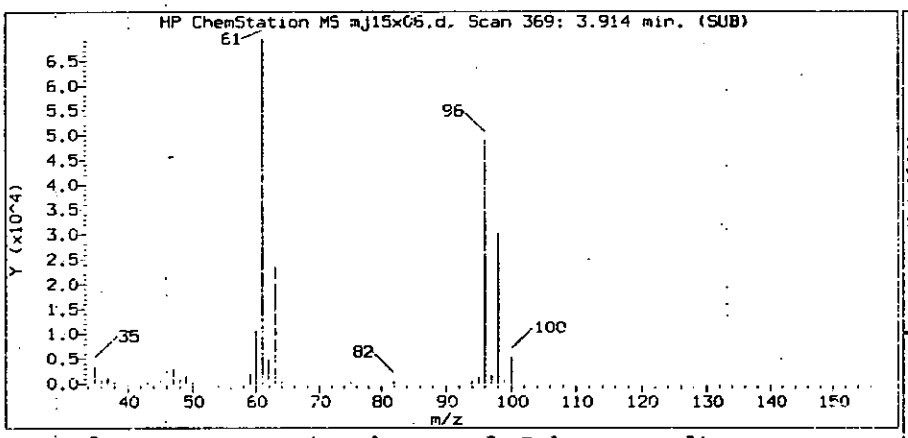
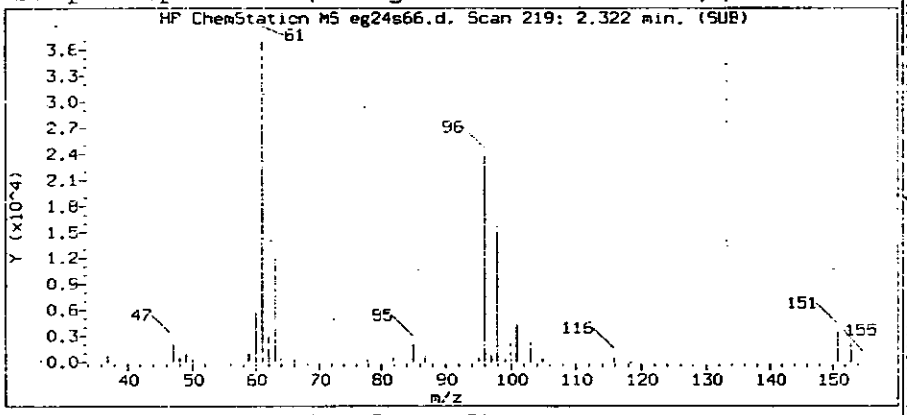
Target 3.5 esignature user ID: jml01693

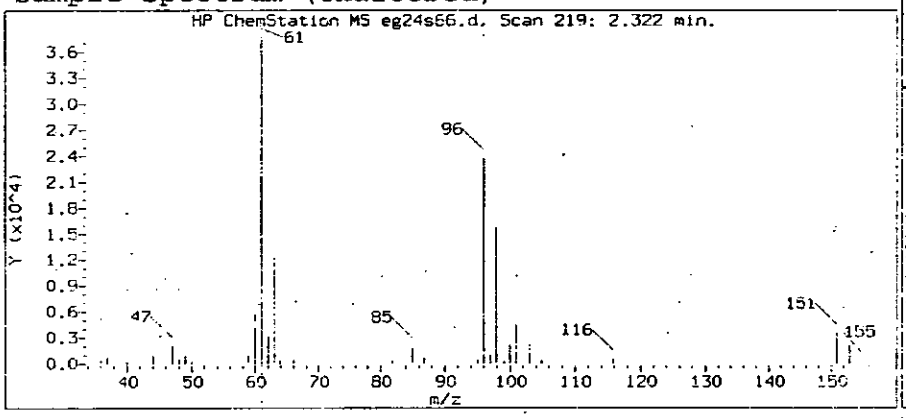
Reference Standard Spectrum for 1,1-Dichloroethene

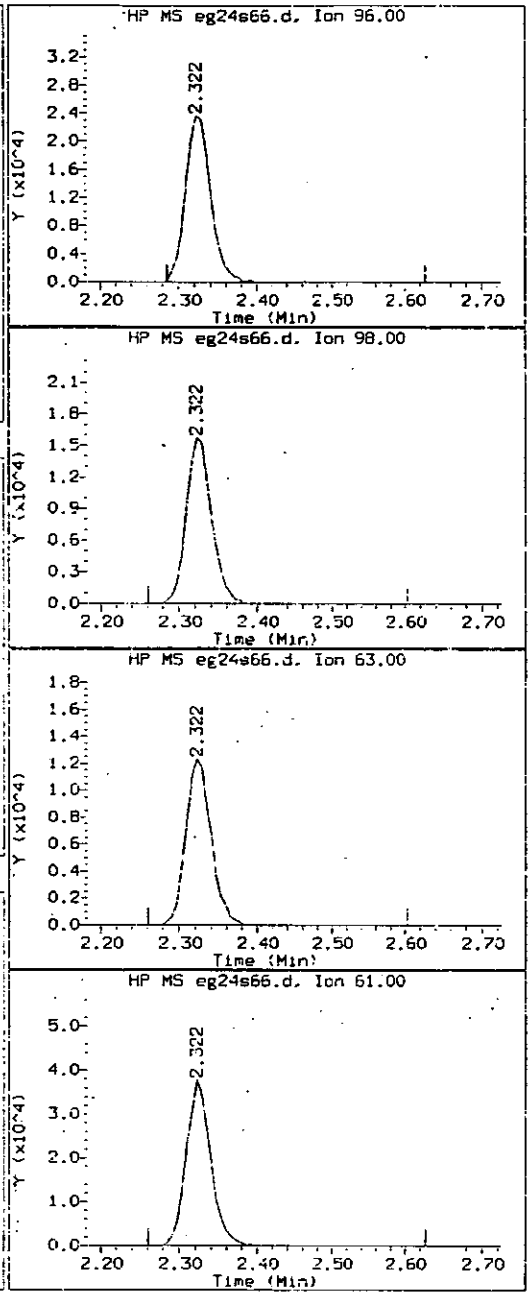


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s66.d
Injection date and time: 24-AUG-2010 22:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061437

Compound Number	: 15
Compound Name	: 1,1-Dichloroethene
Scan Number	: 219
Retention Time (minutes)	: 2.322
Relative Retention Time	: 0.000
Quant Ion	: 96.00
Area (flag)	: 51602
On-Column Amount (ng)	: 6.9756

PTL06 0110

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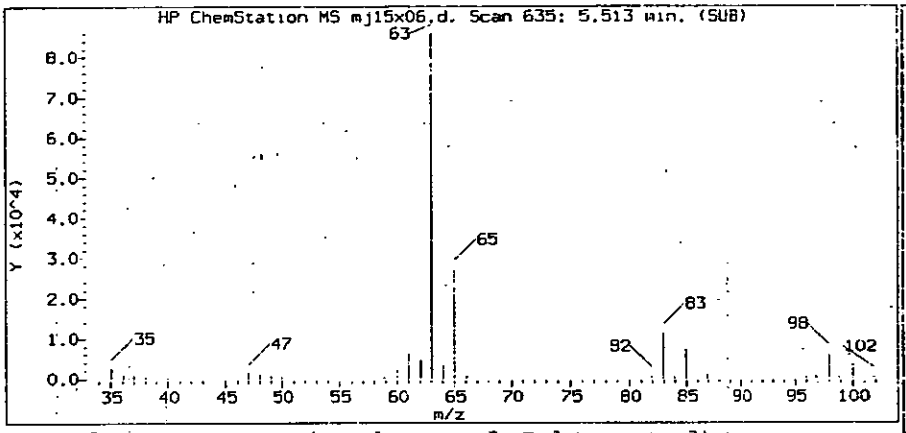
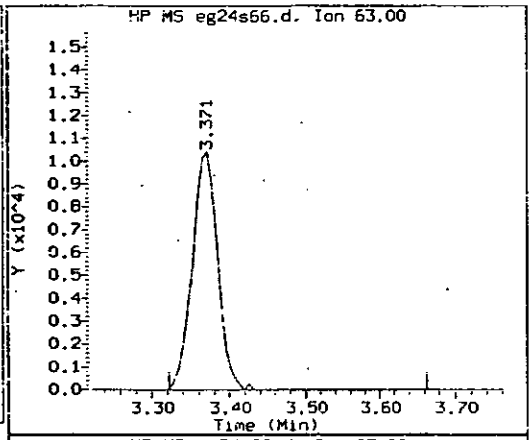
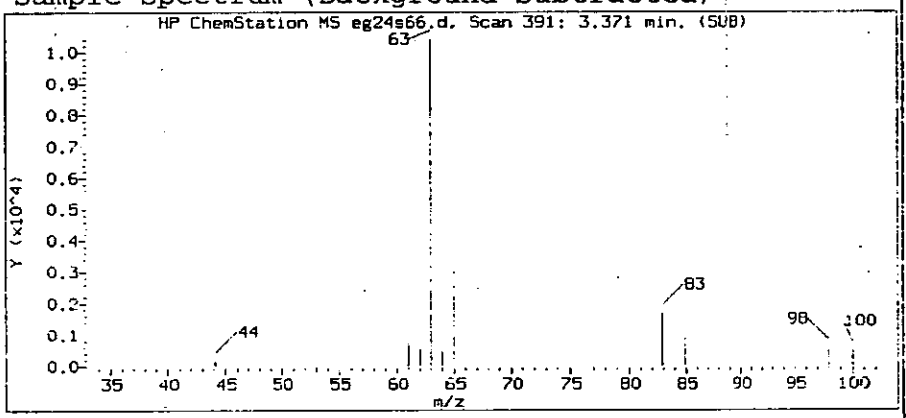
Target 3.5 esignature user ID: jml01693

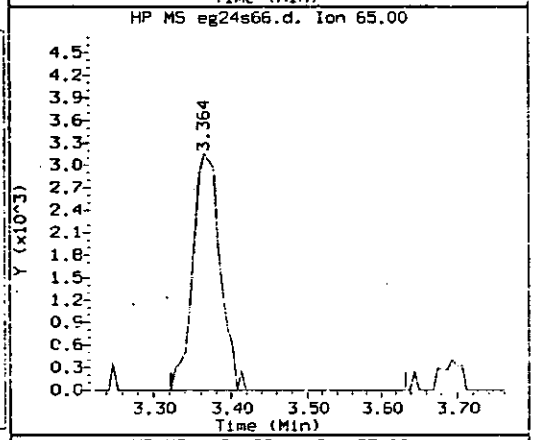
Reference Standard Spectrum for 1,1-Dichloroethane



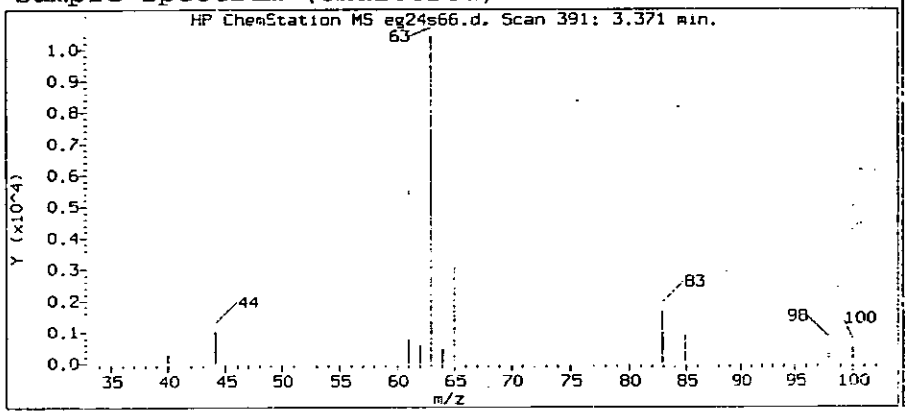


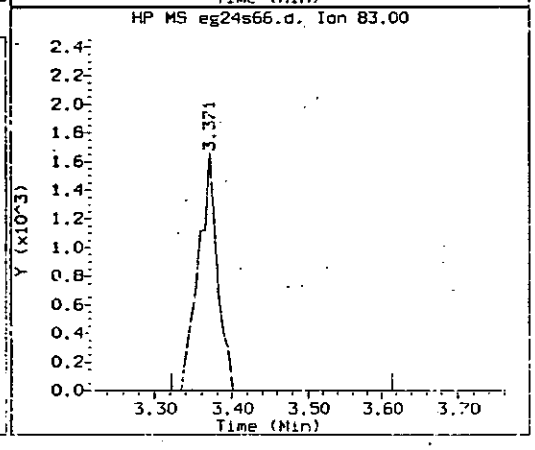
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s66.d
Injection date and time: 24-AUG-2010 22:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061437

Compound Number : 33
Compound Name : 1,1-Dichloroethane
Scan Number : 391
Retention Time (minutes): 3.371
Relative Retention Time : -0.000
Quant Ion : 63.00
Area (flag) : 23562
On-Column Amount (ng) : 1.7098

PTL86 0111

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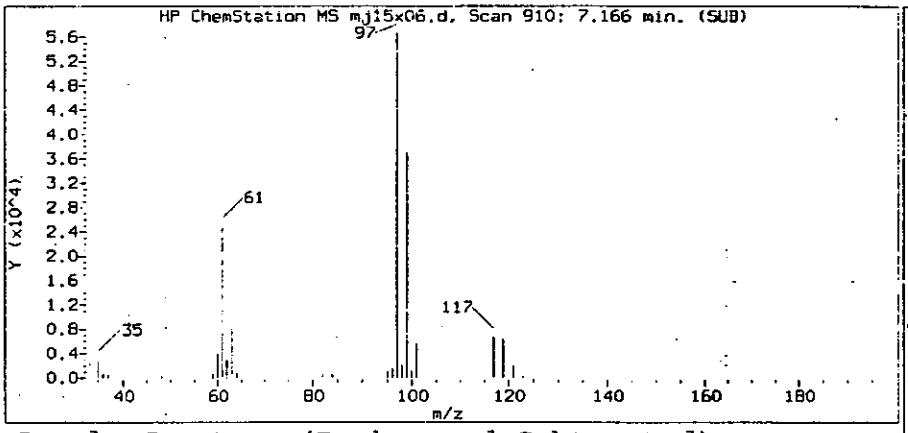
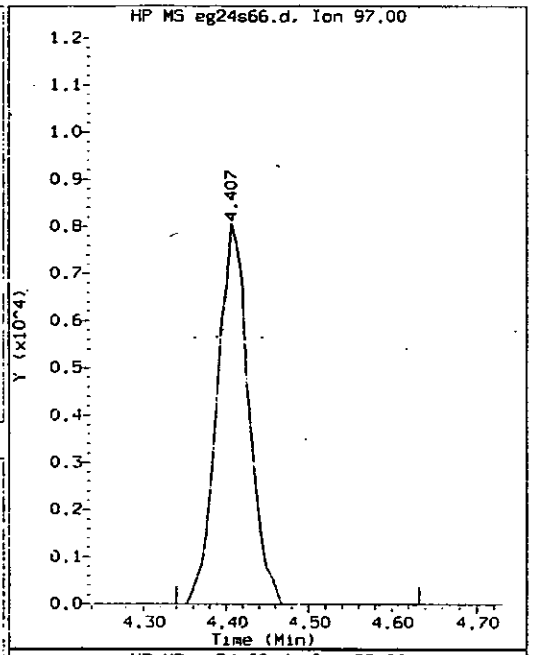
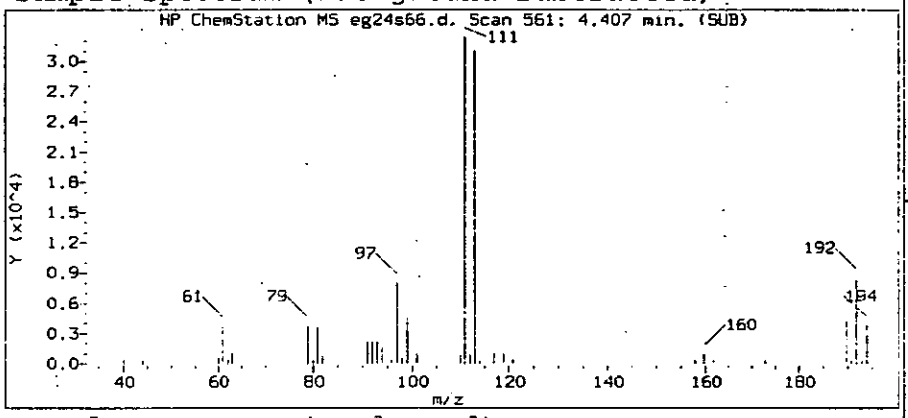
Target 3.5 esignature user ID: jml01693

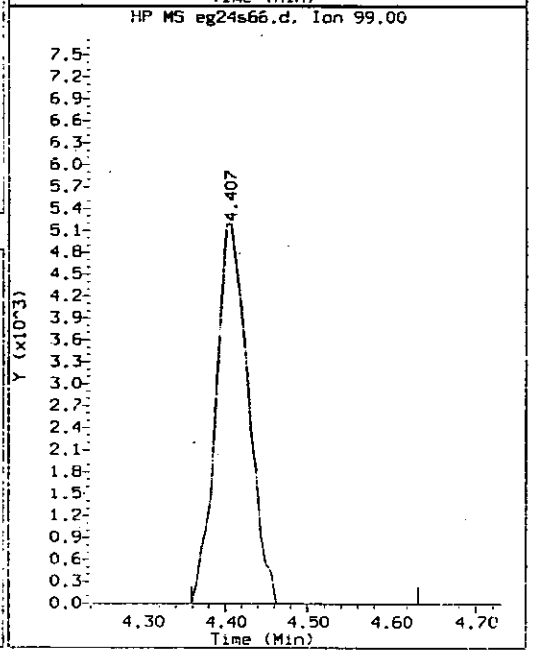
Reference Standard Spectrum for 1,1,1-Trichloroethane



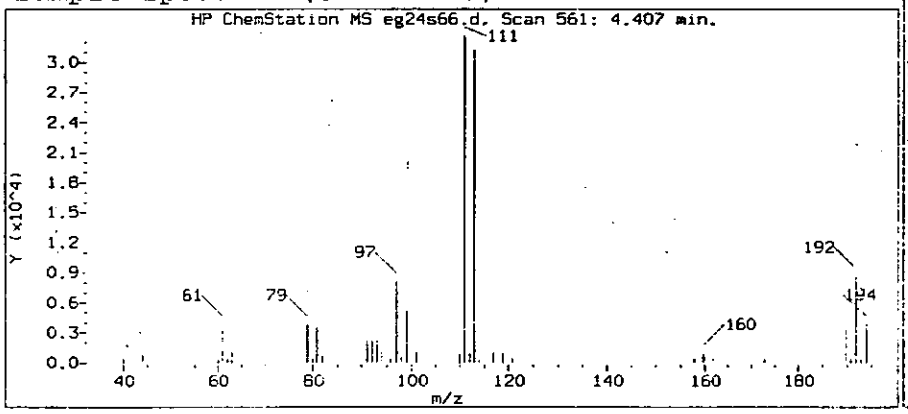


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP15648.i/10aug24b.b/eg24s66.d
Injection date and time: 24-AUG-2010 22:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061437

Compound Number	: 52
Compound Name	: 1,1,1-Trichloroethane
Scan Number	: 561
Retention Time (minutes)	: 4.407
Relative Retention Time	: 0.000
Quant Ion	: 97.00
Area (flag)	: 21626
On-Column Amount (ng)	: 1.8397

PTL06 0112

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Target 3.5 esignature user ID: jml01693

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Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061438

Data file: /chem/HP15648.i/10aug24b.b/eg24s67.d
Data file Sample Info. Line: XXXXX;6061438;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Injection date and time: **24-AUG-2010 23:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.749(0.018)	289	65	152257 (-22)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1259112 (0)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	894952 (2)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1472	152	484272 (0)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.382(0.000)	113	278694	49.500	99%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.706(0.000)	102	75271	50.353	101%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1239120	50.068	100%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	435714	49.626	99%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.316(0.001)	96	7087	0.994	0.99			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)			Not Detected					1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
79) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					5
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 0113

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XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061438

Data file: /chem/HP15648.i/10aug24b.b/eg24s67.d
Data file Sample Info. Line: XXXXX;6061438;1;C;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Injection date and time: **24-AUG-2010 23:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)				Not Detected					1
104) Chlorobenzene	(2)				Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)				Not Detected					1
107) Ethylbenzene	(2)				Not Detected					0.8
108) m+p-Xylene	(2)				Not Detected					0.8
110) o-Xylene	(2)				Not Detected					0.8
111) Styrene	(2)				Not Detected					1
112) Bromoform	(2)				Not Detected					1
113) Isopropylbenzene	(2)				Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1
118) Bromobenzene	(3)				Not Detected					1
120) 1,2,3-Trichloropropane	(3)				Not Detected					1
122) n-Propylbenzene	(3)				Not Detected					1
123) 2-Chlorotoluene	(3)				Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)				Not Detected					1
125) 4-Chlorotoluene	(3)				Not Detected					1
127) tert-Butylbenzene	(3)				Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)				Not Detected					1
132) sec-Butylbenzene	(3)				Not Detected					1
134) p-Isopropyltoluene	(3)				Not Detected					1
133) 1,3-Dichlorobenzene	(3)				Not Detected					1
136) 1,4-Dichlorobenzene	(3)				Not Detected					1
141) n-Butylbenzene	(3)				Not Detected					1
142) 1,2-Dichlorobenzene	(3)				Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)				Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)				Not Detected					1
147) Hexachlorobutadiene	(3)				Not Detected					2
148) Naphthalene	(3)				Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)				Not Detected					1

Total number of targets = 63

Comments:

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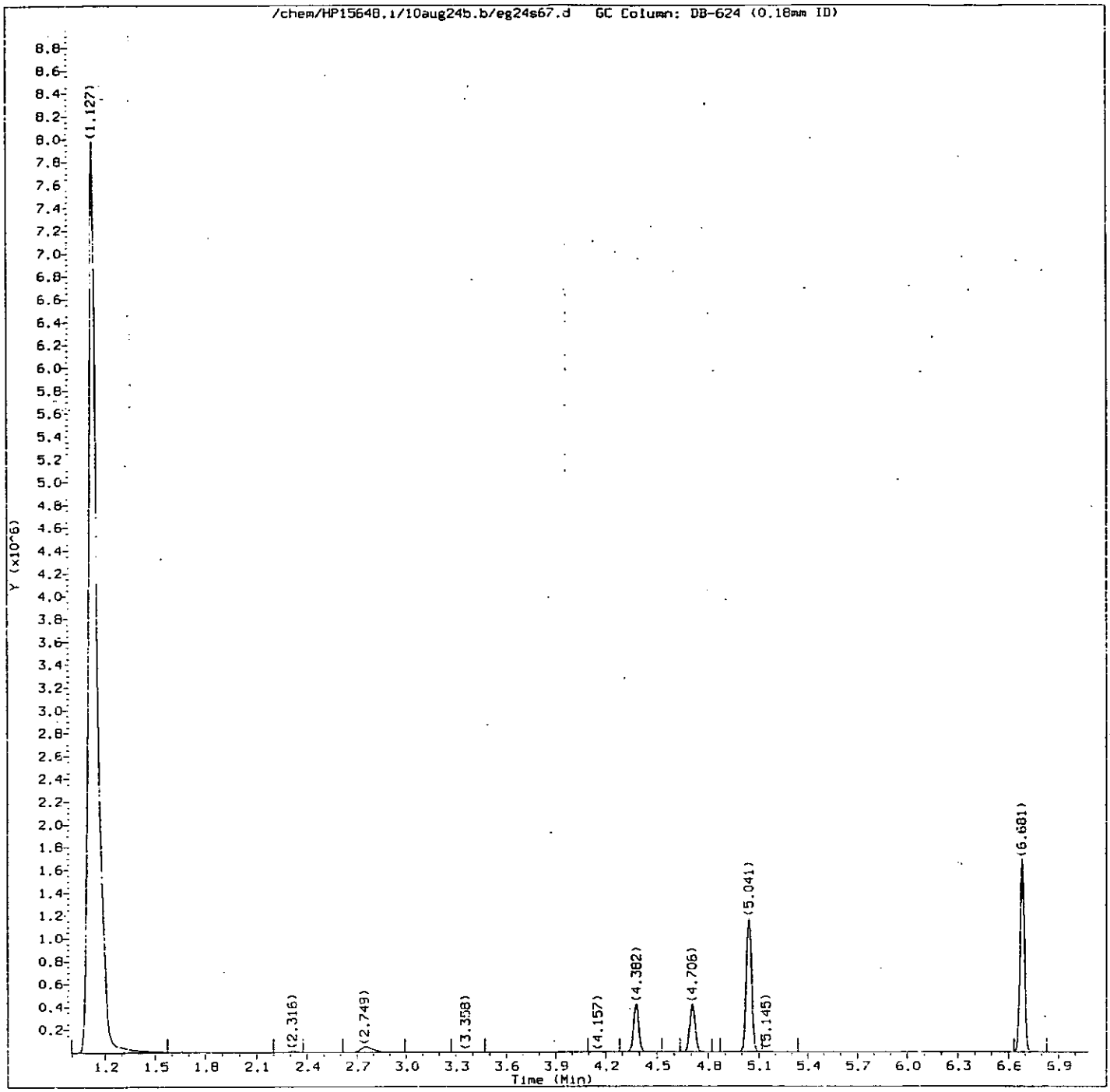
PTL06 0114

Auditor: [signature] Date: 8/2/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s67.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 23:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX Lab Sample ID: 6061438 PTL06 0115

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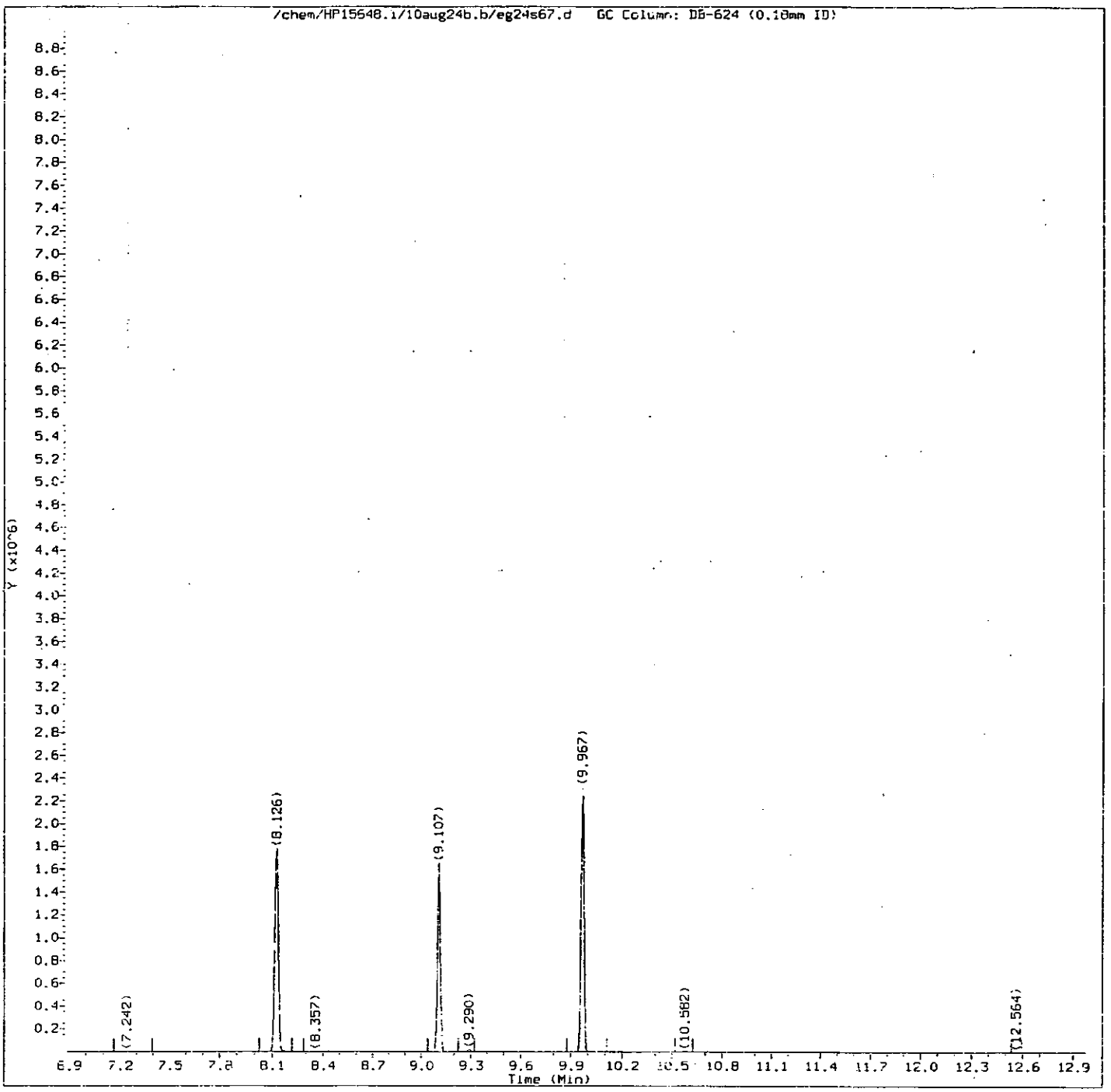
on 08/25/2010 at 07:59.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s67.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 23:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX Lab Sample ID: 6061438

PTL86 0116

Digitally signed by Jason M. Long
on 08/25/2010 at 07:59.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s67.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 23:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX Lab Sample ID: 6061438

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.316	96	7087	0.994
25)*t-Butyl Alcohol-d10	(4)	2.749	65	152257	250.000
50)$Dibromofluoromethane	(1)	4.382	113	278684	49.500
59)$1,2-Dichloroethane-d4	(1)	4.706	102	75271	50.353
69)*Fluorobenzene	(1)	5.041	96	1259112	50.000
90)$Toluene-d8	(2)	6.681	98	1239120	50.068
103)*Chlorobenzene-d5	(2)	8.126	117	894953	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	435714	49.626
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	484272	50.000

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

PTL86 0117

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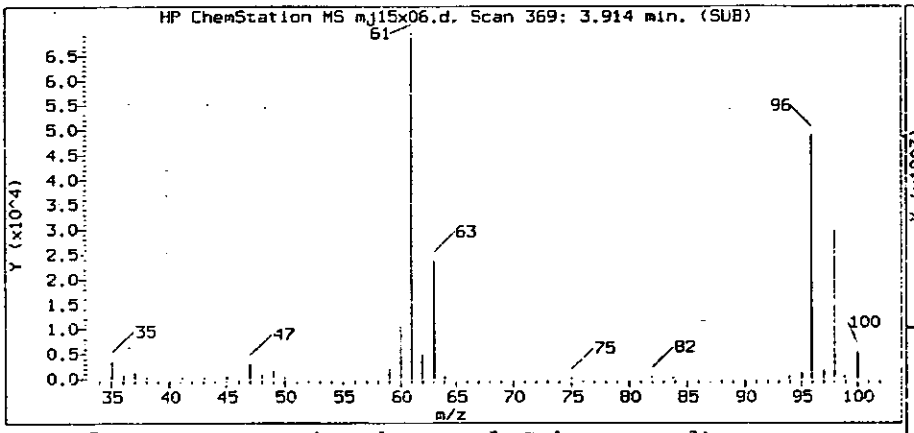
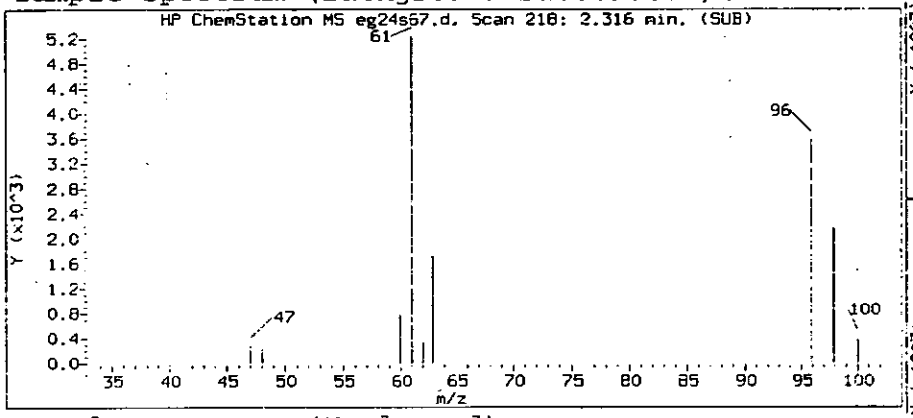
on 08/25/2010 at 07:59.
Target 3.5 esignature user ID: jml01693

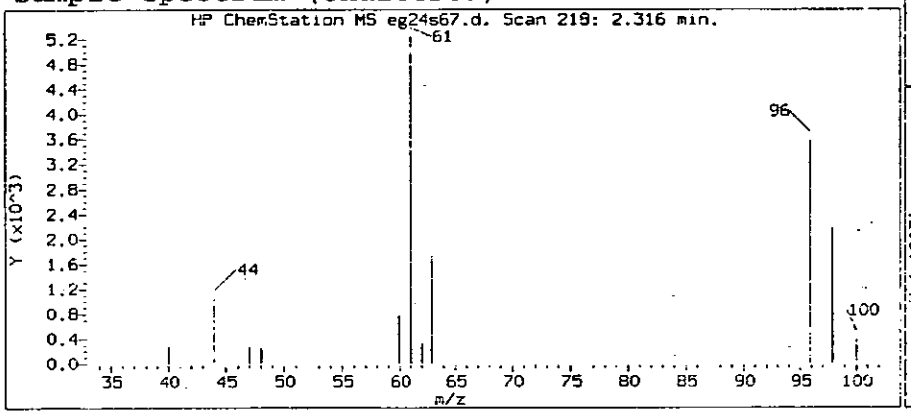
Reference Standard Spectrum for 1,1-Dichloroethene

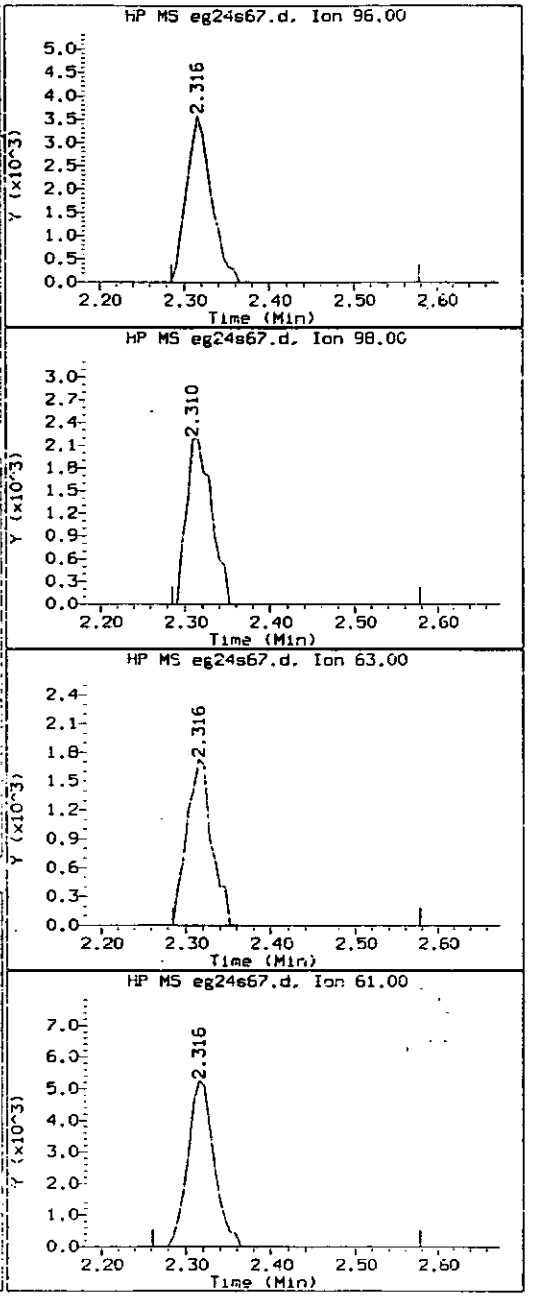


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s67.d
Injection date and time: 24-AUG-2010 23:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:36 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061438

Compound Number	: 15
Compound Name	: 1,1-Dichloroethene
Scan Number	: 218
Retention Time (minutes)	: 2.316
Relative Retention Time	: 0.001
Quant Ion	: 96.00
Area (flag)	: 7087
On-Column Amount (ng)	: 0.9935

PTL86 6118

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Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061439

Data file: /chem/HP15648.i/10aug24b.b/eg24s68.d
Data file Sample Info. Line: XXXXX;6061439;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Injection date and time: **24-AUG-2010 23:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.006)	291	65	162068 (-18)	250.00	
69) Fluorobenzene	5.047(0.000)	666	96	1300500 (3)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	924578 (5)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	498859 (3)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.383(0.001)	113	290162	49.898	100%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.706(0.001)	102	78960	51.139	102%		77 - 113
90) Toluene-d8	(2)	6.691(0.001)	98	1292106	50.145	100%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	450343	49.648	99%		79 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)	1.962(0.000)	101	30084	2.436	2.44			2
15) 1,1-Dichloroethene	(1)	2.322(0.001)	96	6420252	871.401	871.40		E	0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.370(0.000)	63	233346	17.002	17.00			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)	4.230(0.000)	83	16256	1.337	1.34			0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)	4.785(0.001)	62	17412	1.923	1.92			1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL86 0119

E = Compound concentration above calibration range.

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XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061439

Data file: /chem/HP15648.i/10aug24b.b/eg24s68.d
Data file Sample Info. Line: XXXXX;6061439;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Injection date and time: **24-AUG-2010 23:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RPT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)				Not Detected					1
104) Chlorobenzene	(2)				Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)				Not Detected					1
107) Ethylbenzene	(2)				Not Detected					0.8
108) m+p-Xylene	(2)				Not Detected					0.8
110) o-Xylene	(2)				Not Detected					0.9
111) Styrene	(2)				Not Detected					1
112) Bromoform	(2)				Not Detected					1
113) Isopropylbenzene	(2)				Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1
118) Bromobenzene	(3)				Not Detected					1
120) 1,2,3-Trichloropropane	(3)				Not Detected					1
122) n-Propylbenzene	(3)				Not Detected					1
123) 2-Chlorotoluene	(3)				Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)				Not Detected					1
125) 4-Chlorotoluene	(3)				Not Detected					1
127) tert-Butylbenzene	(3)				Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)				Not Detected					1
132) sec-Butylbenzene	(3)				Not Detected					1
134) p-Isopropyltoluene	(3)				Not Detected					1
133) 1,3-Dichlorobenzene	(3)				Not Detected					1
136) 1,4-Dichlorobenzene	(3)				Not Detected					1
141) n-Butylbenzene	(3)				Not Detected					1
142) 1,2-Dichlorobenzene	(3)				Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)				Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)				Not Detected					1
147) Hexachlorobutadiene	(3)				Not Detected					2
148) Naphthalene	(3)				Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)				Not Detected					1

Total number of targets = 63

Comments:

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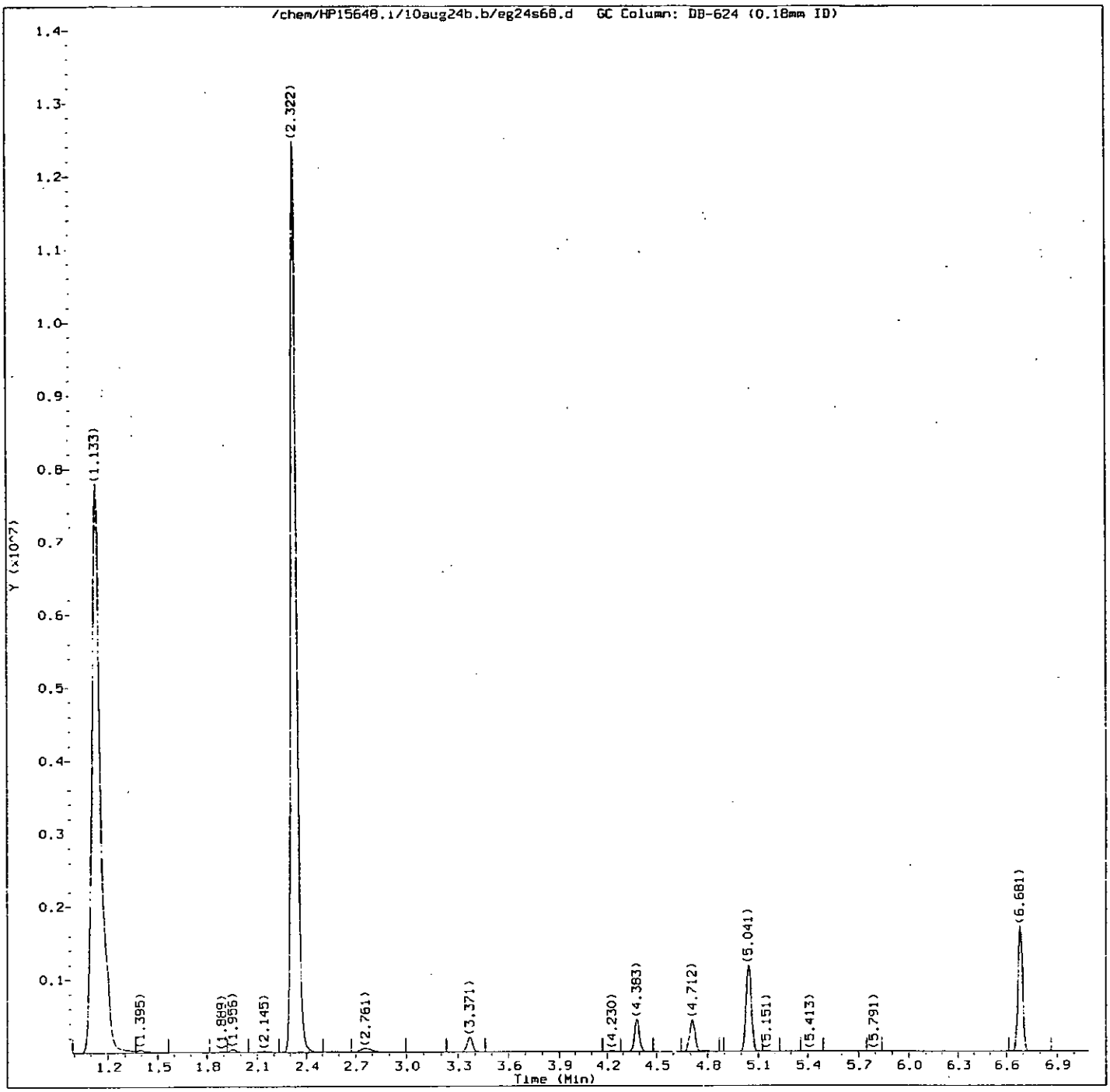
Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s68.d
Injection date and time: 24-AUG-2010 23:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061439

PTL86 0121

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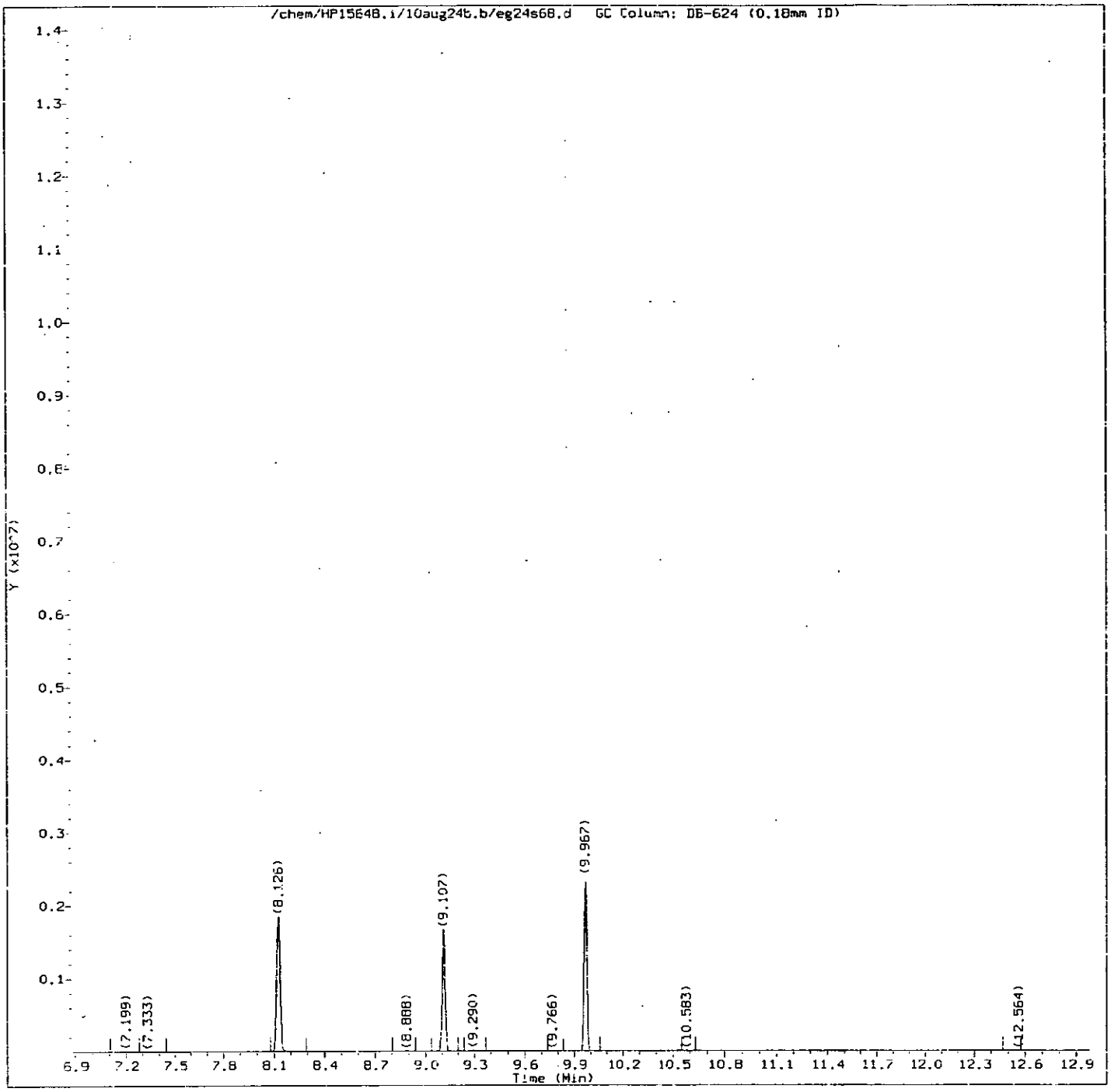
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s68.d
Injection date and time: 24-AUG-2010 23:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061439

PTL86 0122

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Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s68.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 23:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Sample Name: XXXXX Lab Sample ID: 6061439

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
8) Trichlorofluoromethane	(1)	1.962	101	30084	2.436
15) 1,1-Dichloroethene	(1)	2.322	96	6420252	871.401
25)*t-Butyl Alcohol-d10	(4)	2.761	65	162068	250.000
33) 1,1-Dichloroethane	(1)	3.371	63	233346	17.002
47) Chloroform	(1)	4.230	83	16256	1.337
50)$Dibromofluoromethane	(1)	4.383	113	290162	49.898
59)$1,2-Dichloroethane-d4	(1)	4.706	102	78960	51.139
65) 1,2-Dichloroethane	(1)	4.785	62	17412	1.923
69)*Fluorobenzene	(1)	5.047	96	1300500	50.000
90)$Toluene-d8	(2)	6.681	98	1282106	50.145
103)*Chlorobenzene-d5	(2)	8.126	117	924578	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	450343	49.648
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	498859	50.000

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

PTL86 0123

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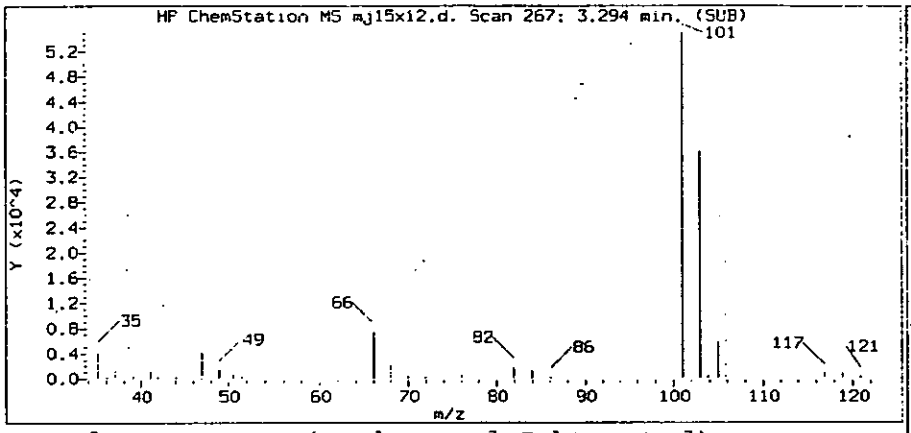
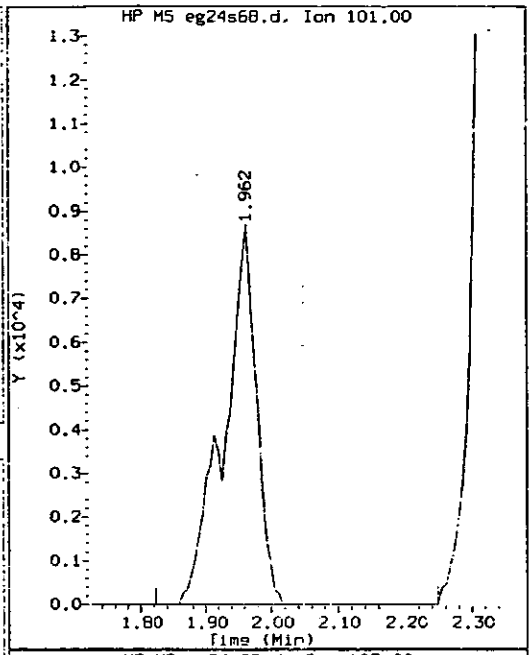
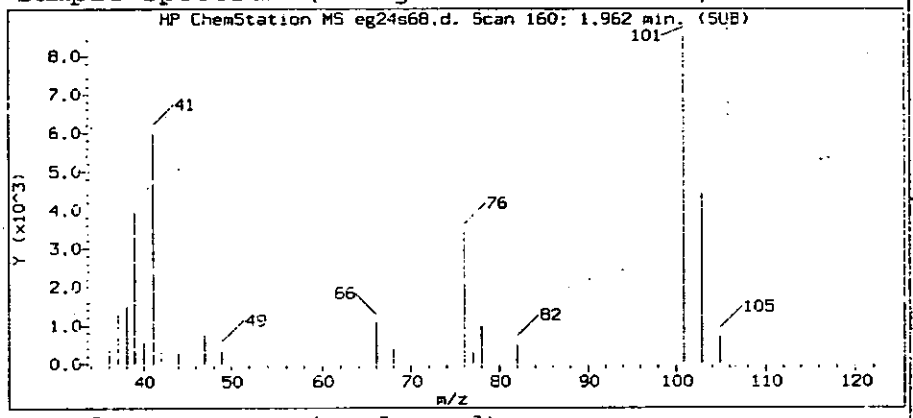
Target 3.5 esignature user ID: jml01693

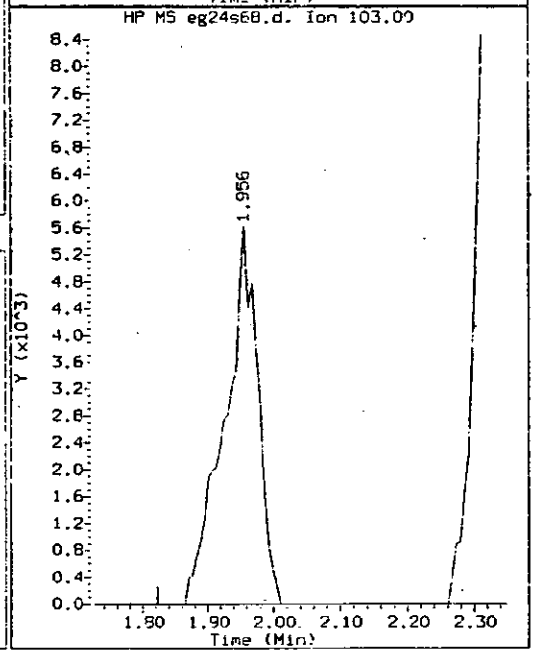
Reference Standard Spectrum for Trichlorofluoromethane



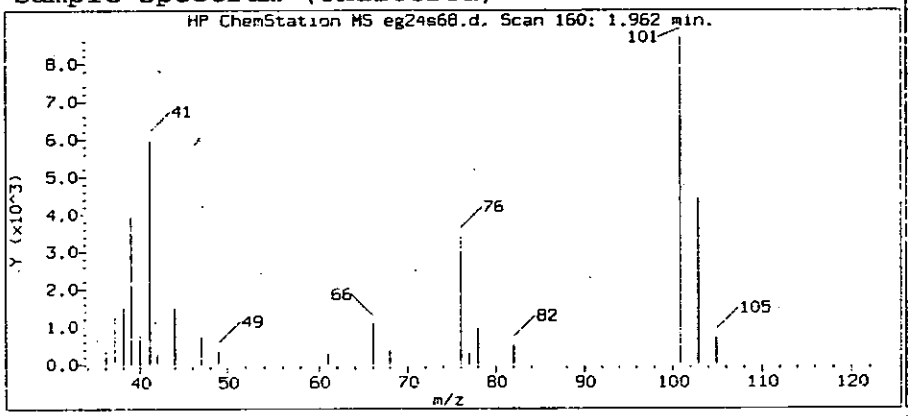


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP15648.i/10aug24b.b/eg24s68.d
Injection date and time: 24-AUG-2010 23:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061439

Compound Number	: 8
Compound Name	: Trichlorofluoromethane
Scan Number	: 160
Retention Time (minutes)	: 1.962
Relative Retention Time	: 0.000
Quant Ion	: 101.00
Area (flag)	: 30084
On-Column Amount (ng)	: 2.4365

PTL86 8124

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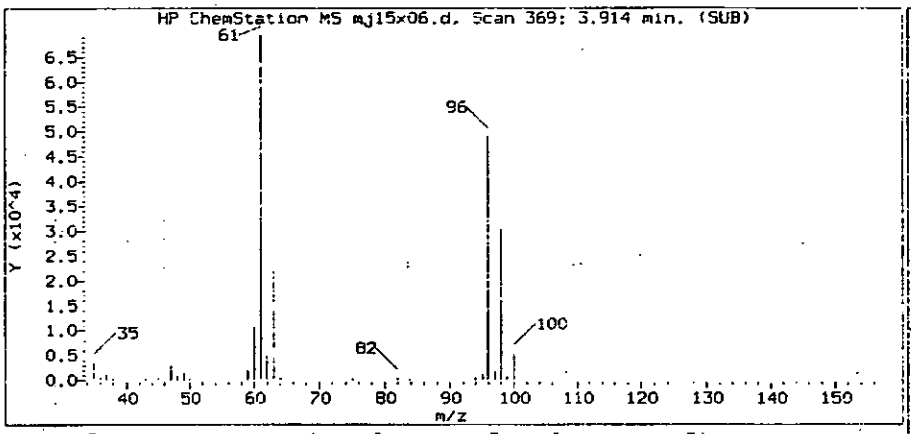
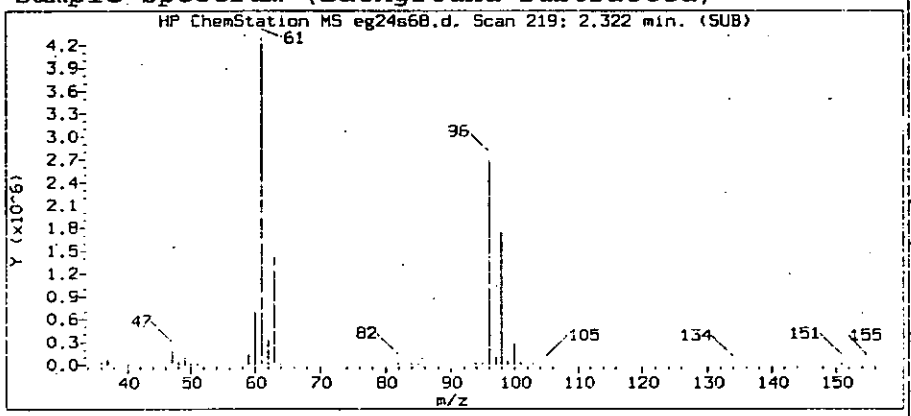
Target 3.5 esignature user ID: jml01693

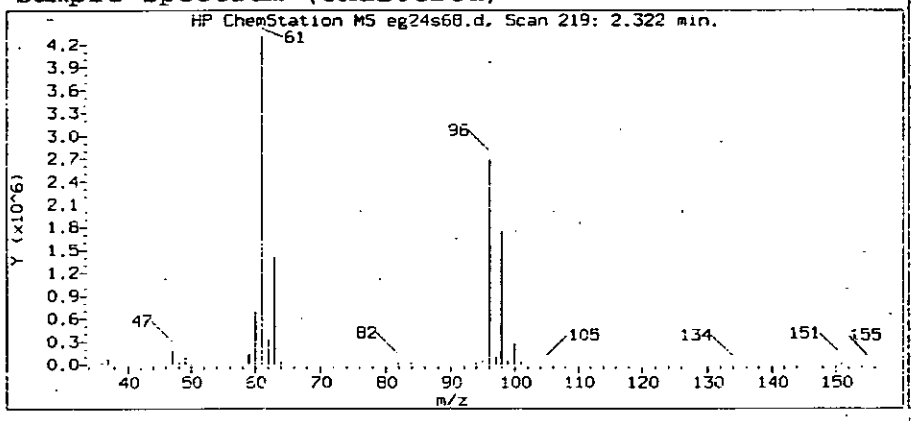
Reference Standard Spectrum for 1,1-Dichloroethene

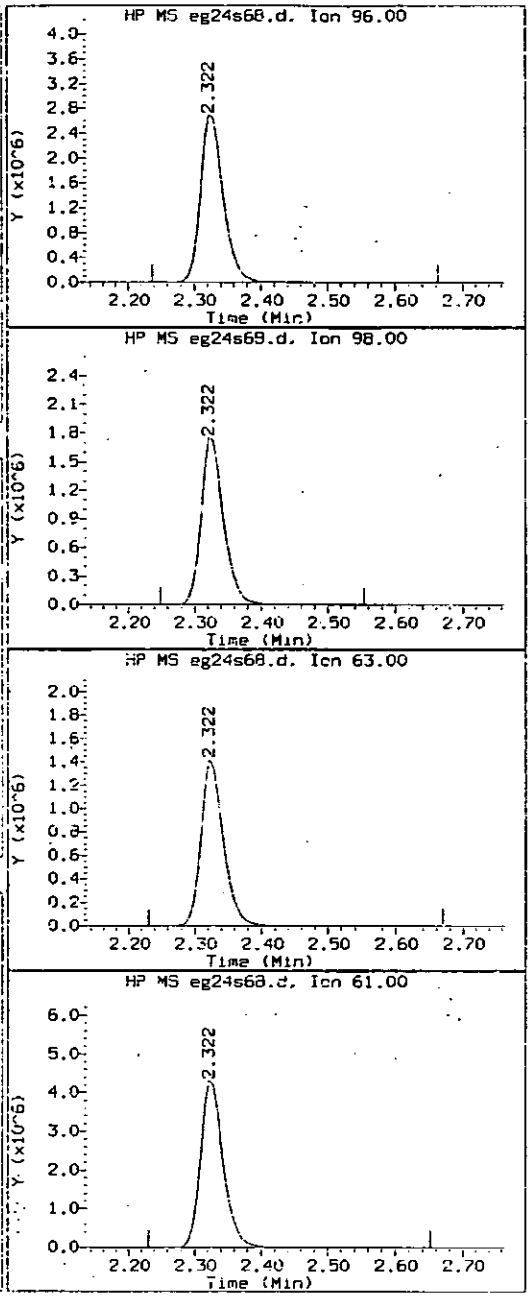


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s68.d
Injection date and time: 24-AUG-2010 23:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061439

Compound Number	: 15
Compound Name	: 1,1-Dichloroethene
Scan Number	: 219
Retention Time (minutes)	: 2.322
Relative Retention Time	: 0.001
Quant Ion	: 96.00
Area (flag)	: 6420252
On-Column Amount (ng)	: 871.4006

PTL06 0125

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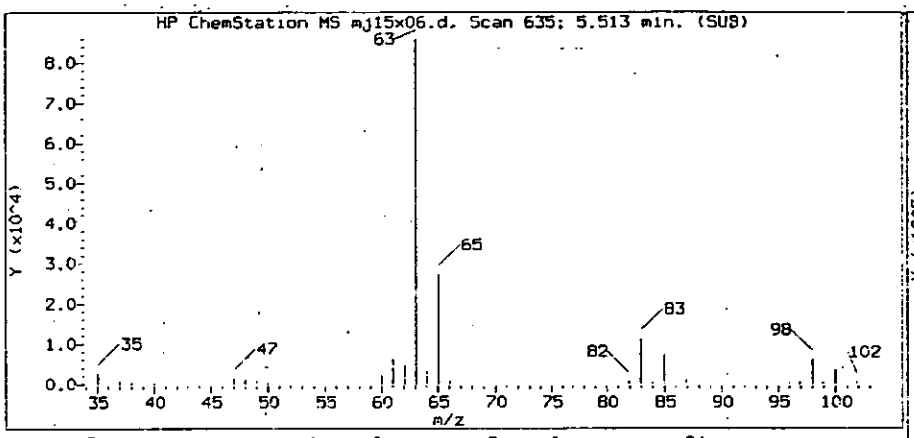
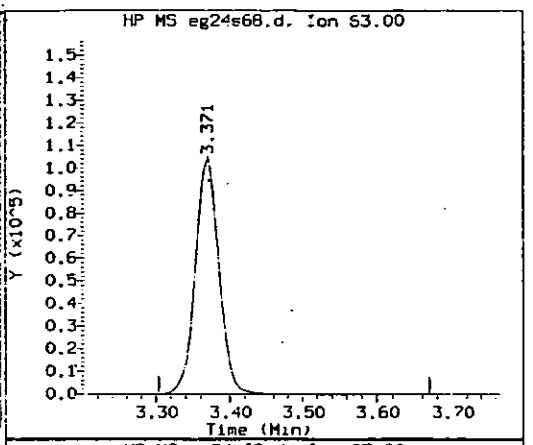
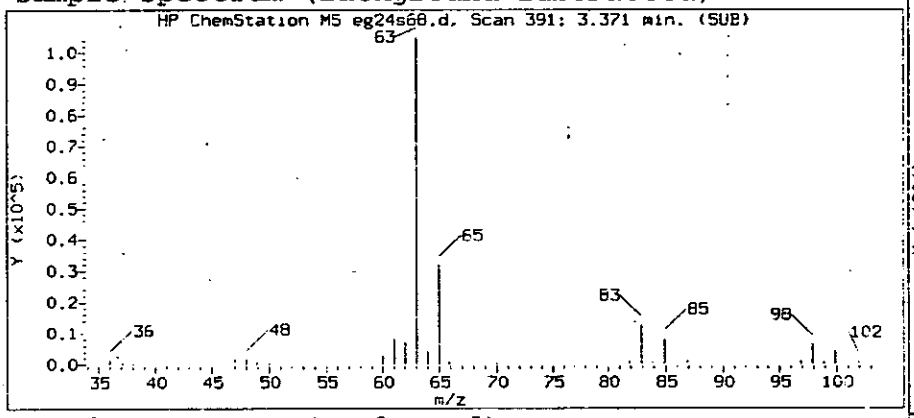
Target 3.5 esignature user ID: jml01693

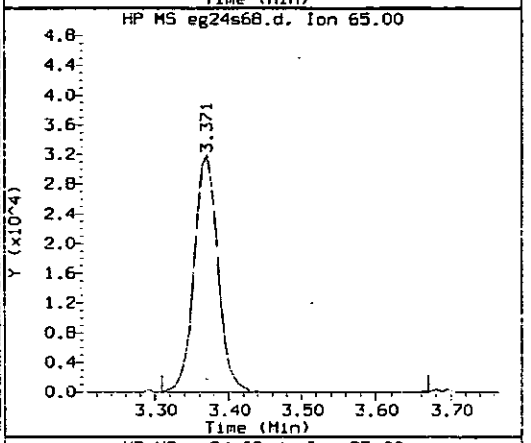
Reference Standard Spectrum for 1,1-Dichloroethane



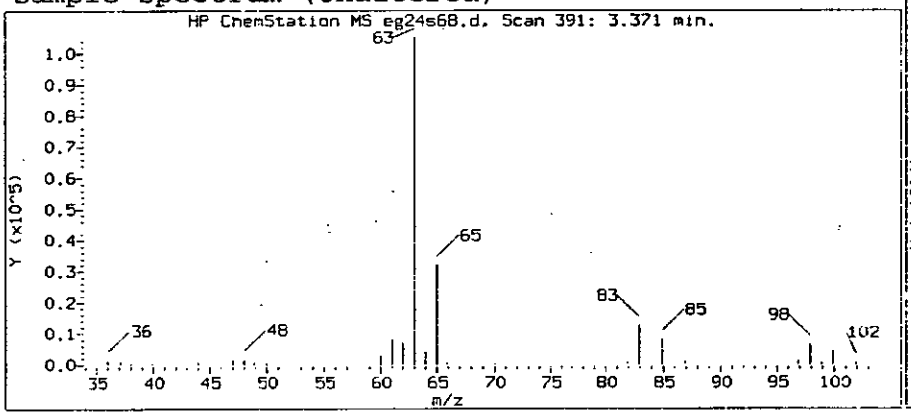


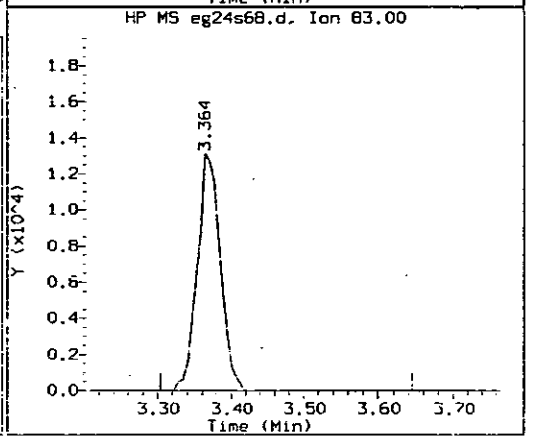
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s68.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 23:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Sample Name: XXXXX Lab Sample ID: 6061439

Compound Number : 33
Compound Name : 1,1-Dichloroethane
Scan Number : 391
Retention Time (minutes): 3.371
Relative Retention Time : 0.000
Quant Ion : 63.00
Area (flag) : 233346
On-Column Amount (ng) : 17.0017

PTL86 0126

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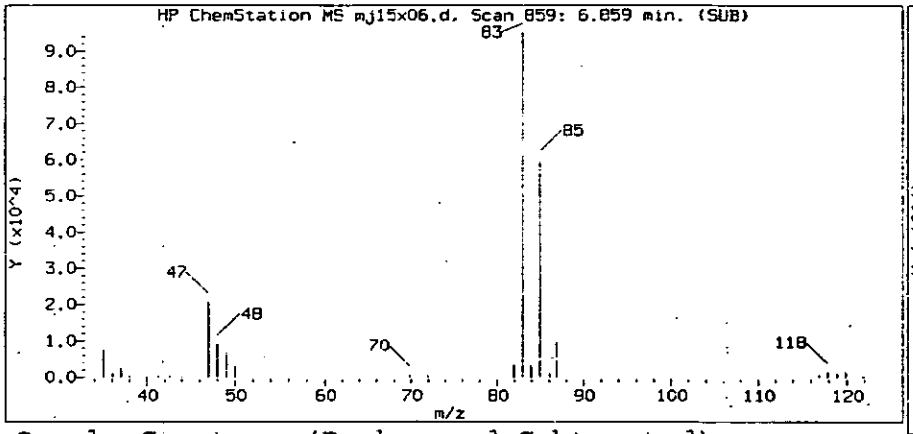
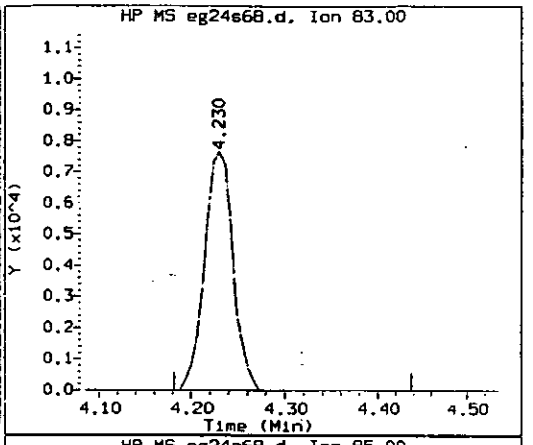
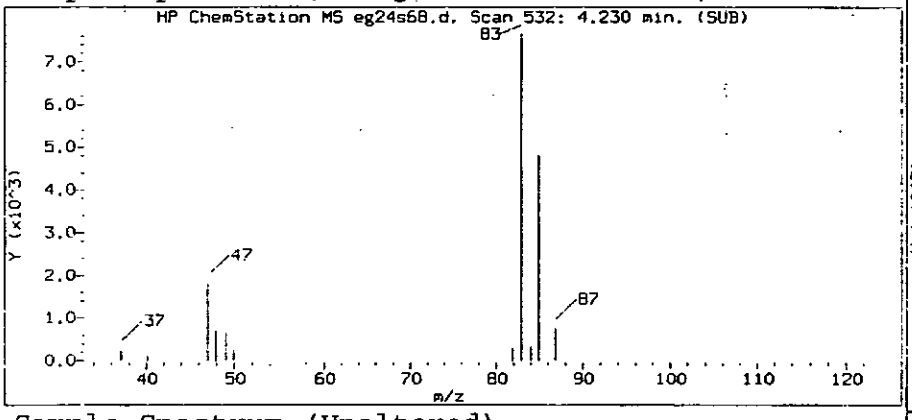
Target 3.5 esignature user ID: jml01693

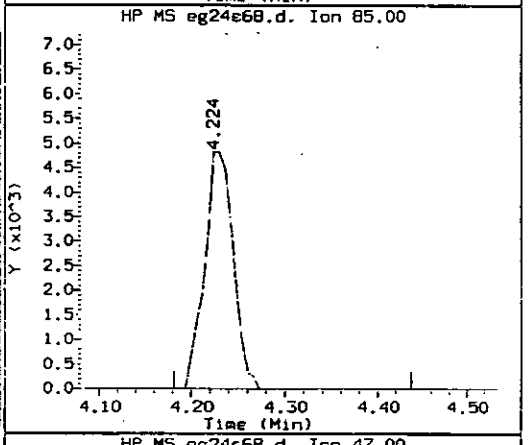
Reference Standard Spectrum for Chloroform



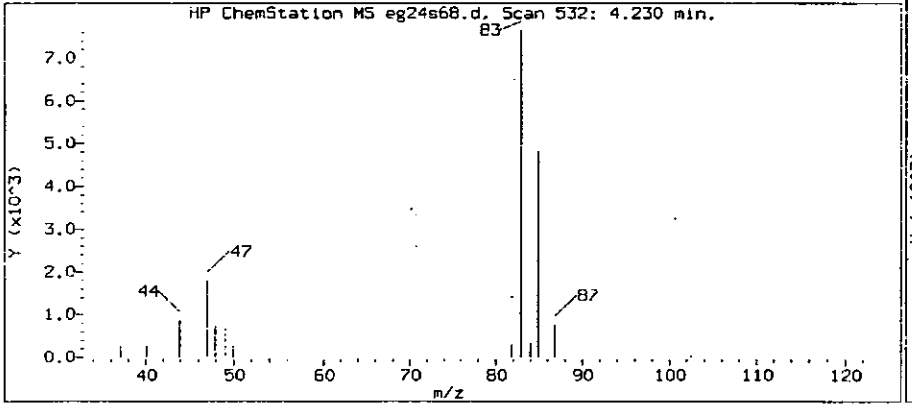


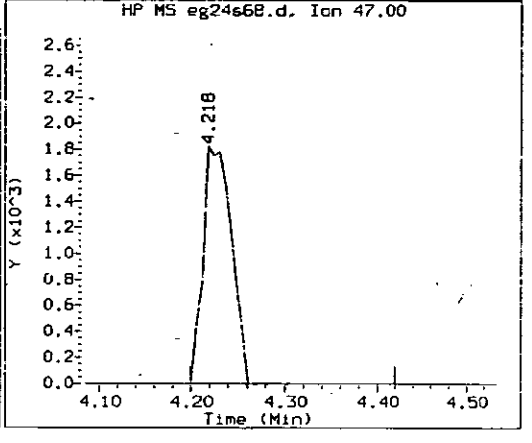
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s68.d
Injection date and time: 24-AUG-2010 23:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061439

Compound Number	: 47
Compound Name	: Chloroform
Scan Number	: 532
Retention Time (minutes)	: 4.230
Relative Retention Time	: 0.000
Quant Ion	: 83.00
Area (flag)	: 16256
On-Column Amount (ng)	: 1.3374

PTL06 0127

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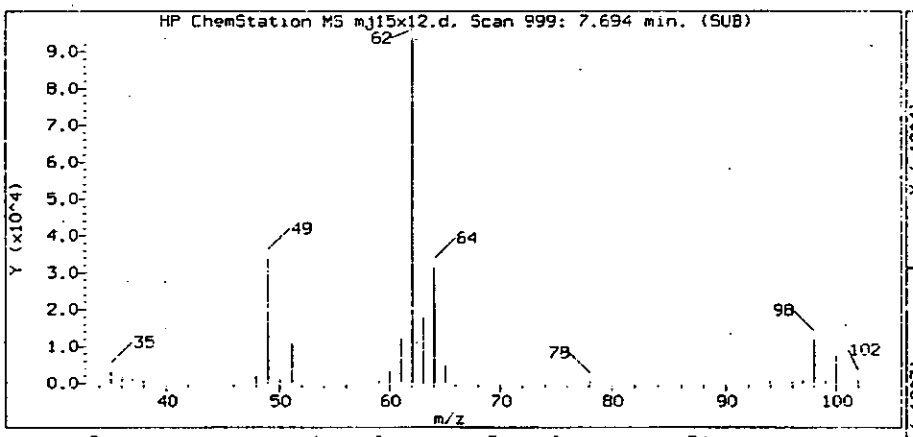
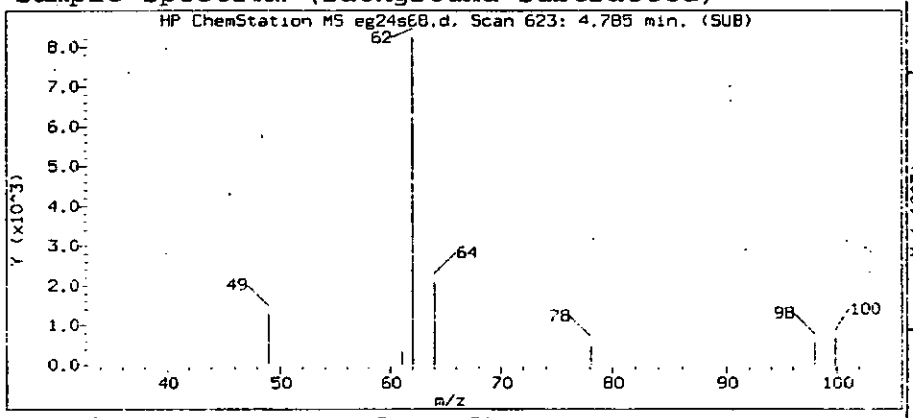
Target 3.5 esignature user ID: jml01693

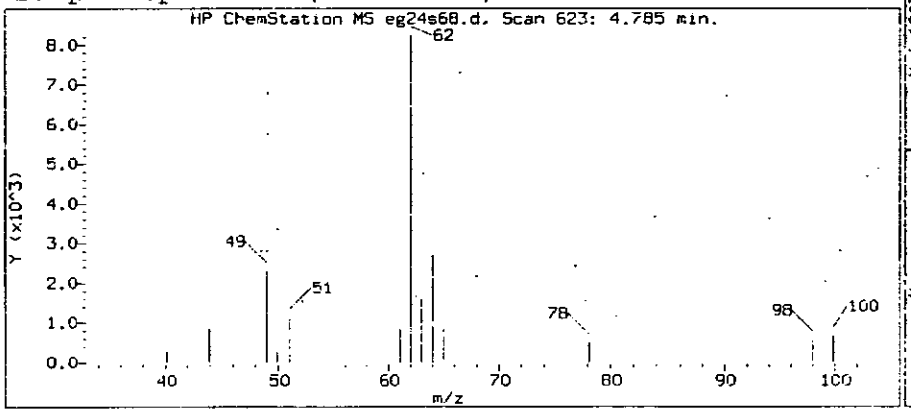
Reference Standard Spectrum for 1,2-Dichloroethane

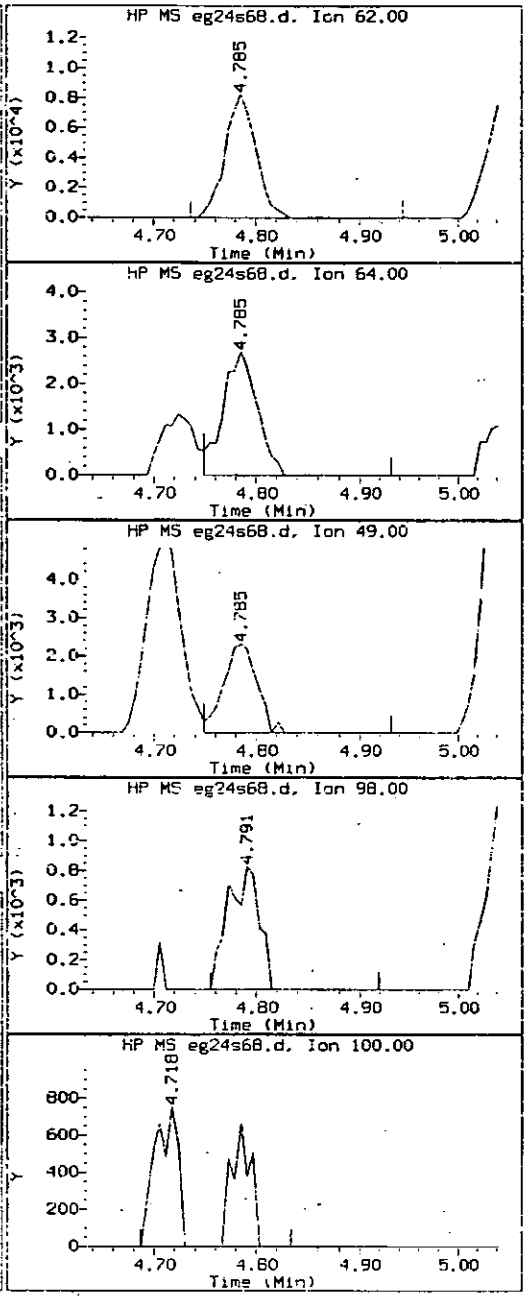


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s68.d
Injection date and time: 24-AUG-2010 23:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:37 jml01693

Sample Name: XXXXX

Lab Sample ID: 6061439

Compound Number	: 65
Compound Name	: 1,2-Dichloroethane
Scan Number	: 623
Retention Time (minutes)	: 4.785
Relative Retention Time	: 0.001
Quant Ion	: 62.00
Area (flag)	: 17412
On-Column Amount (ng)	: 1.9228

PTL86 8128

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Target 3.5 esignature user ID: jml01693

XXXXXDL

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061439DL

Data file: /chem/HP15648.i/10aug25a.b/eg25s02.d
Data file Sample Info. Line: XXXXXDL;6061439DL;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 15:05 jml01693

Injection date and time: **25-AUG-2010 11:15**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260w.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 25-AUG-2010 11:32
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: **38B** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **10.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 0.5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.006)	290	65	156343 (-20)	250.00	
69) Fluorobenzene	5.035(0.012)	664	96	1279664 (3)	50.00	
103) Chlorobenzene-d5	8.119(0.006)	1170	117	913499 (3)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.006)	1473	152	494932 (1)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.376(-0.001)	113	287261	50.204	100%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.706(-0.001)	102	78864	51.909	104%		77 - 113
90) Toluene-d8	(2)	6.675(0.001)	98	1274704	50.460	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(-0.001)	95	447515	49.935	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.322(0.000)	96	479543	66.147	661.47			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.358(0.000)	63	18988	1.405	14.06			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 0129

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XXXXXDL

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061439DL

Data file: /chem/HP15648.i/10aug25a.b/eg25s02.d
Data file Sample Info. Line: XXXXXDL;6061439DL;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 15:05 jml01693

Injection date and time: **25-AUG-2010 11:15**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 25-AUG-2010 11:32
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: **38B** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **10.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 0.5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

Total number of targets = 63

Comments:

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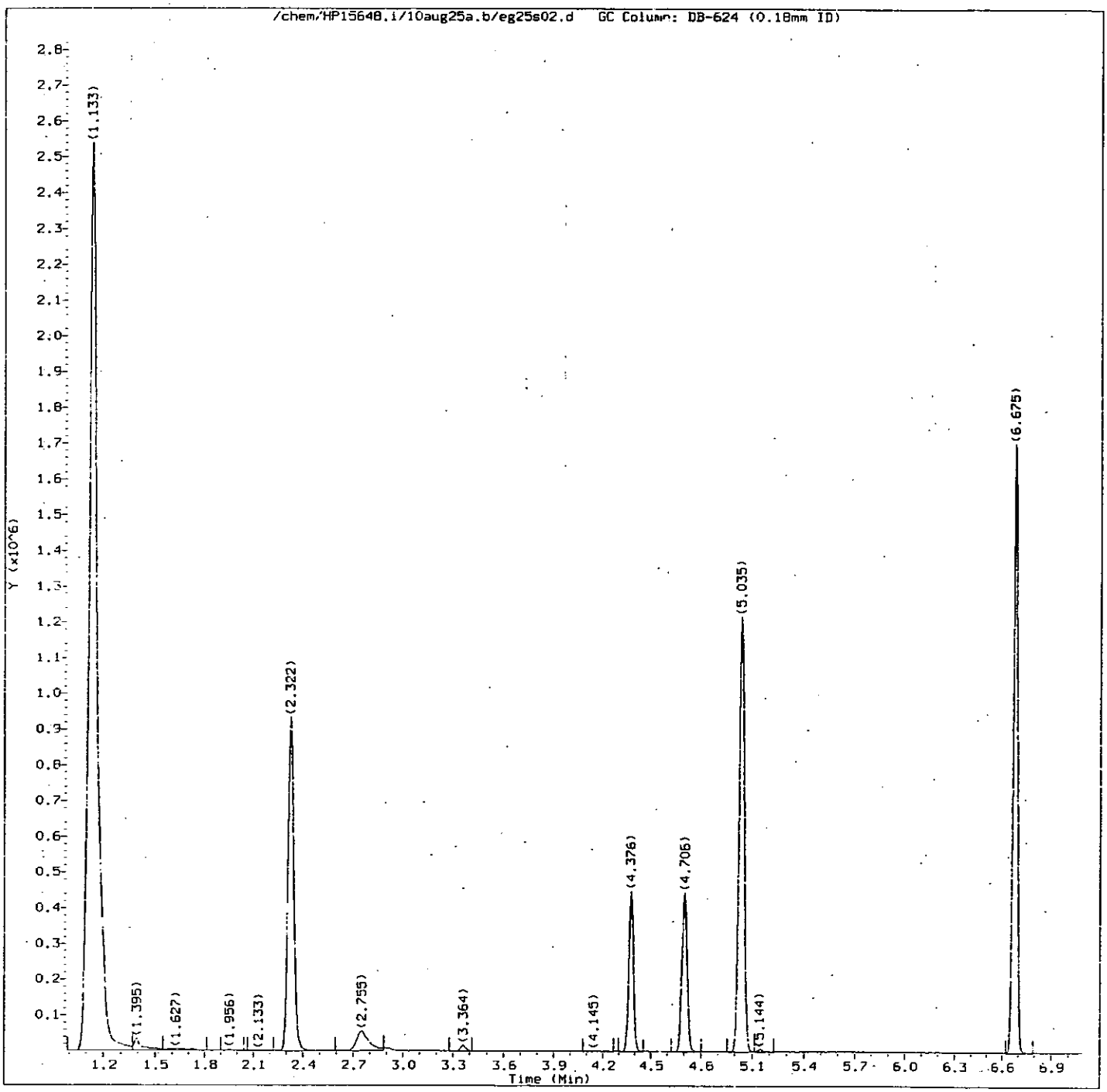
PTL06 0138

Auditor: HB1996 Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25s02.d
Injection date and time: 25-AUG-2010 11:15

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 15:05 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6061439DL

PTL06 [illegible]

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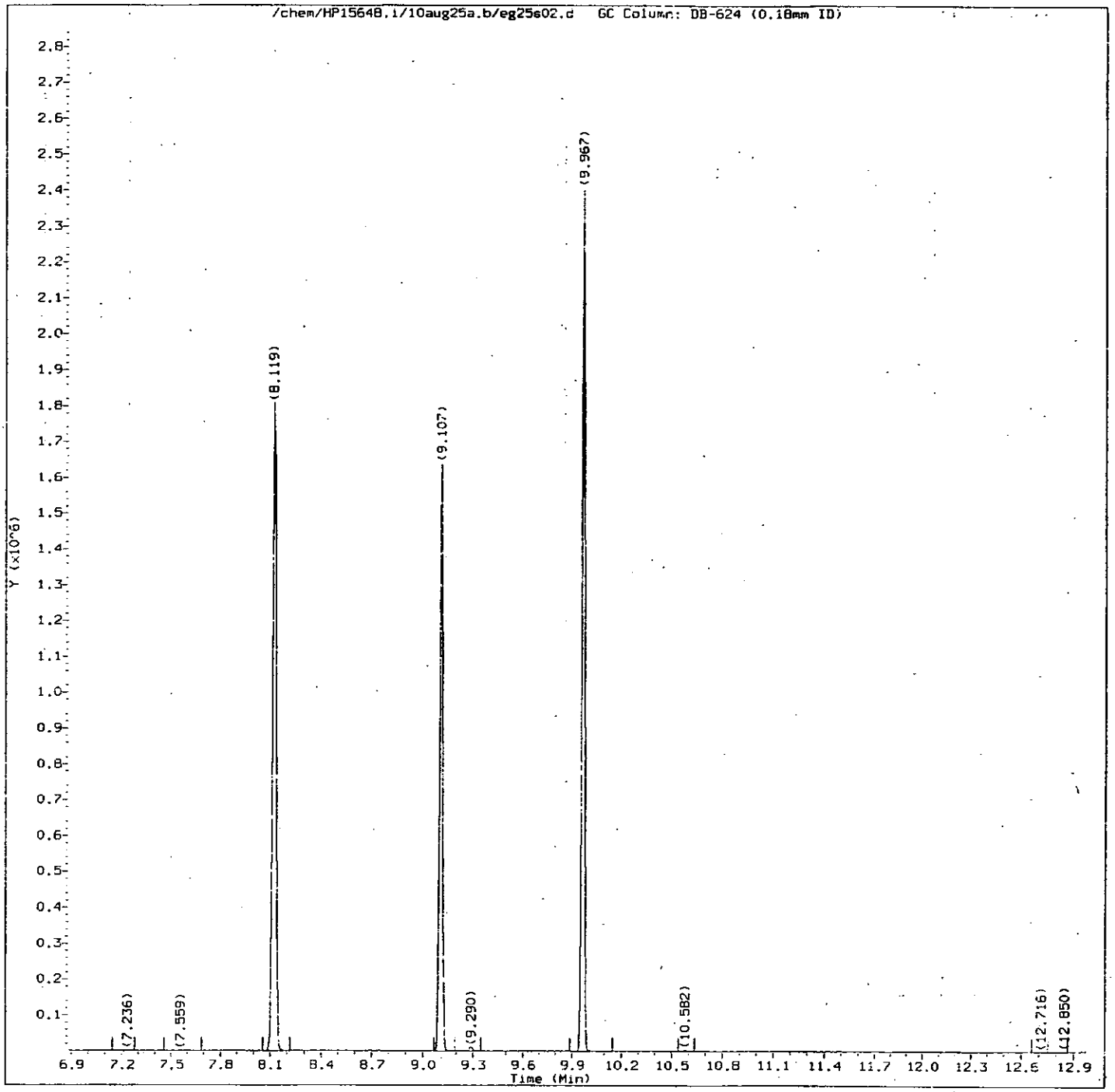
on 08/25/2010 at 15:06.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25s02.d
Injection date and time: 25-AUG-2010 11:15

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 15:05 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6061439DL

PTL86 0132

Digitally signed by Jason M. Long
on 08/25/2010 at 15:06.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25s02.d
Injection date and time: 25-AUG-2010 11:15

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 15:05 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6061439DL

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.322	96	479543	66.147
25)*t-Butyl Alcohol-d10	(4)	2.755	65	156343	250.000
33) 1,1-Dichloroethane	(1)	3.358	63	18988	1.406
50)$Dibromofluoromethane	(1)	4.376	113	287261	50.204
59)$1,2-Dichloroethane-d4	(1)	4.706	102	78864	51.909
69)*Fluorobenzene	(1)	5.035	96	1279664	50.000
90)$Toluene-d8	(2)	6.675	98	1274704	50.460
103)*Chlorobenzene-d5	(2)	8.119	117	913499	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	447515	49.935
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	494932	50.000

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

PTL06 0133

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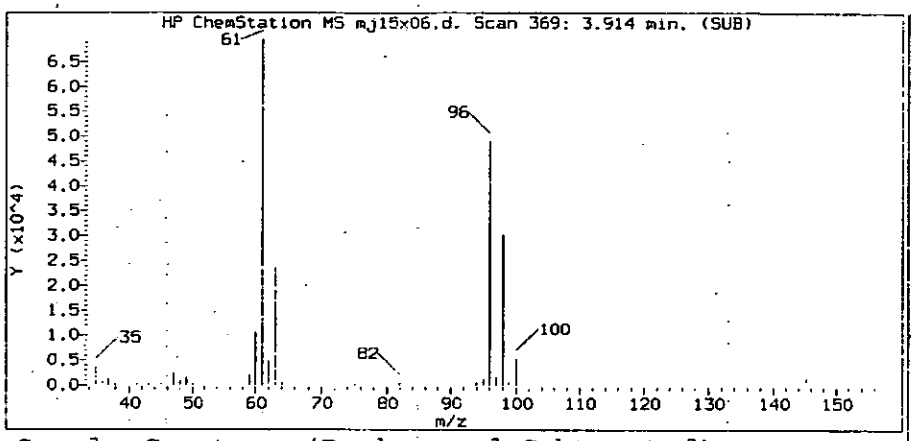
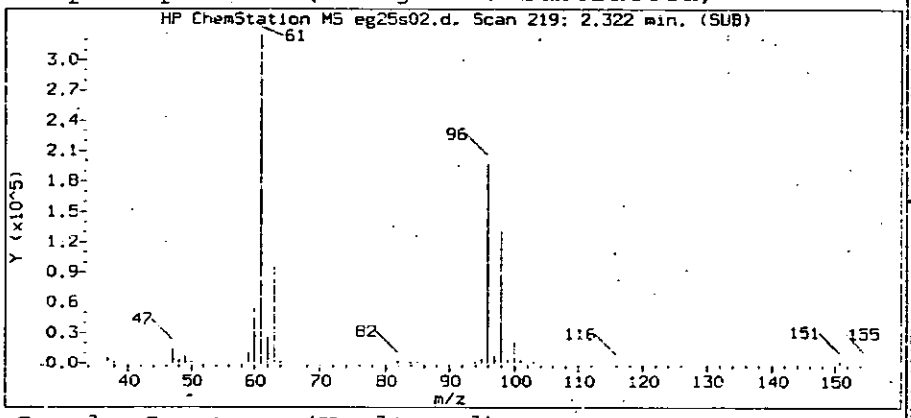
on 08/25/2010 at 15:06.
Target 3.5 esignature user ID: jml01693

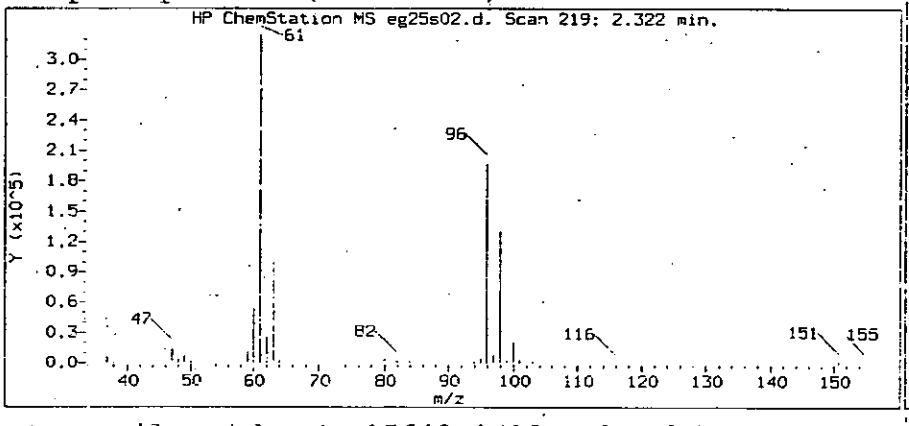
Reference Standard Spectrum for 1,1-Dichloroethene

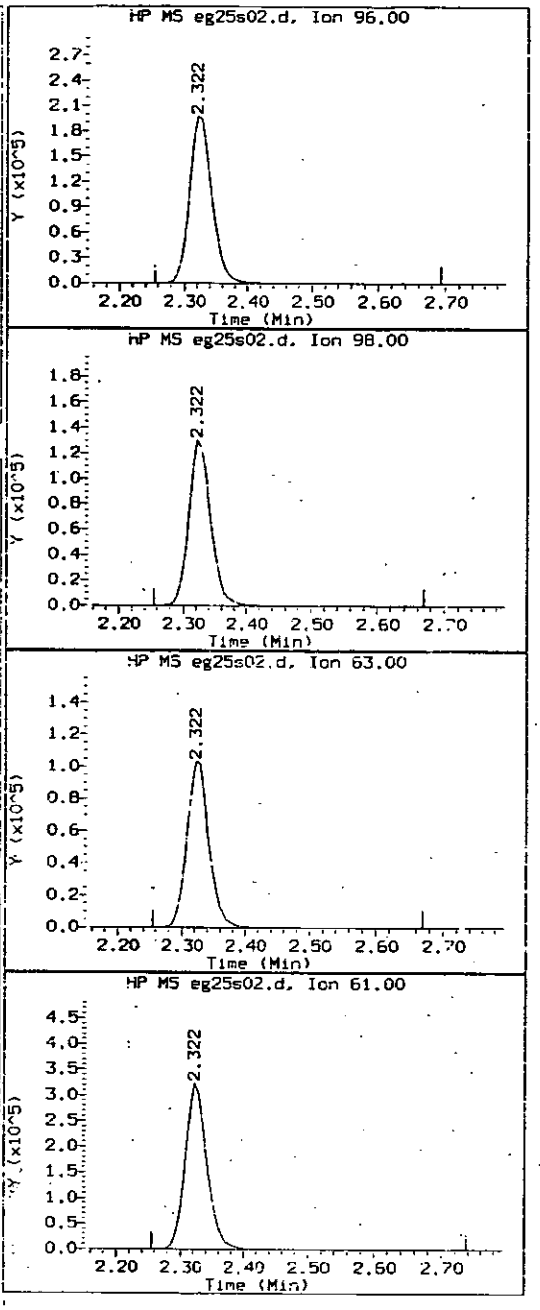


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug25a.b/eg25s02.d
Injection date and time: 25-AUG-2010 11:15

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 15:05 jml01693

Sample Name: XXXXXDL

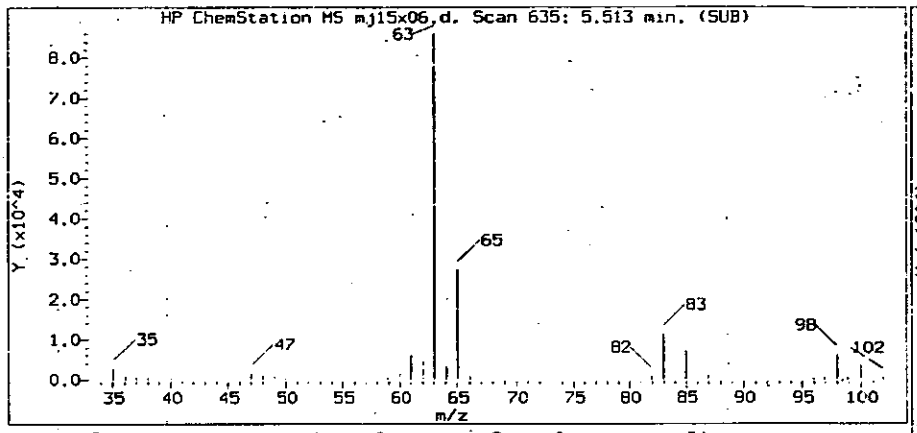
Lab Sample ID: 6061439DL

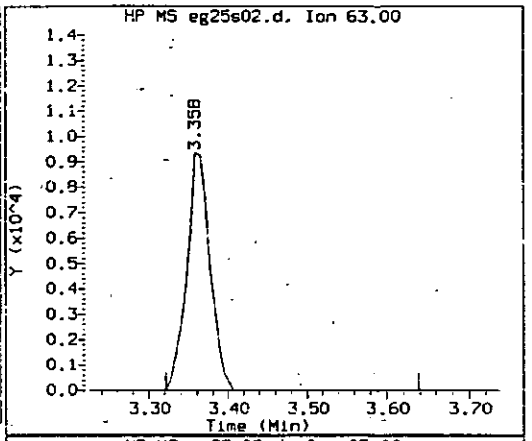
Compound Number	: 15
Compound Name	: 1,1-Dichloroethene
Scan Number	: 219
Retention Time (minutes)	: 2.322
Relative Retention Time	: 0.000
Quant Ion	: 96.00
Area (flag)	: 479543
On-Column Amount (ng)	: 66.1466

PTL06 0134

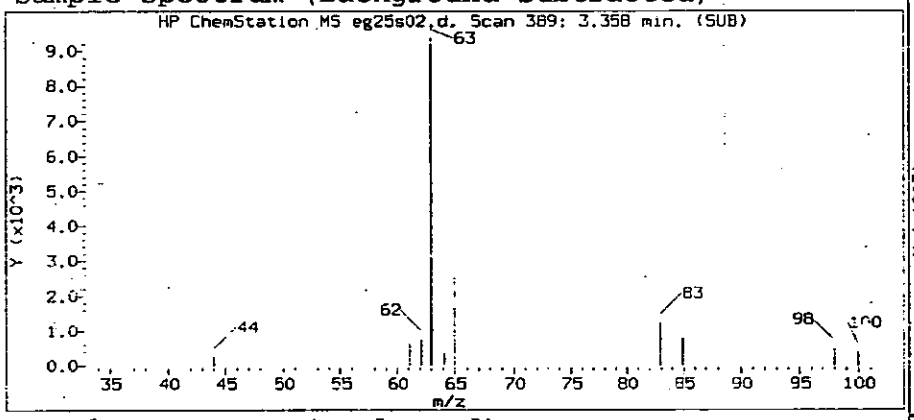
Digitally signed by Jason M. Long on 08/25/2010 at 15:06.
Target 3.5 esignature user ID: jml01693

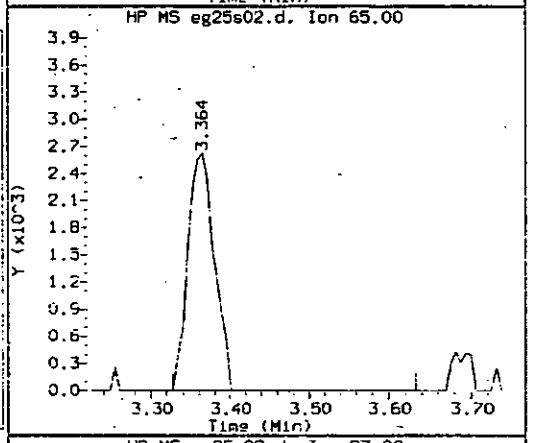
Reference Standard Spectrum for 1,1-Dichloroethane



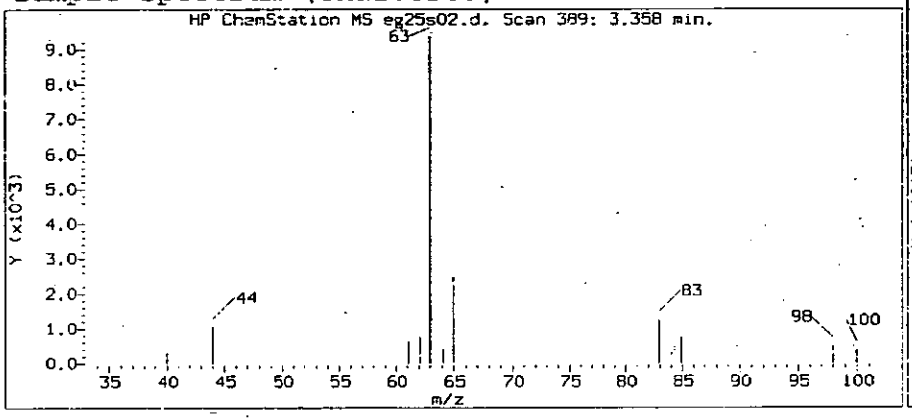


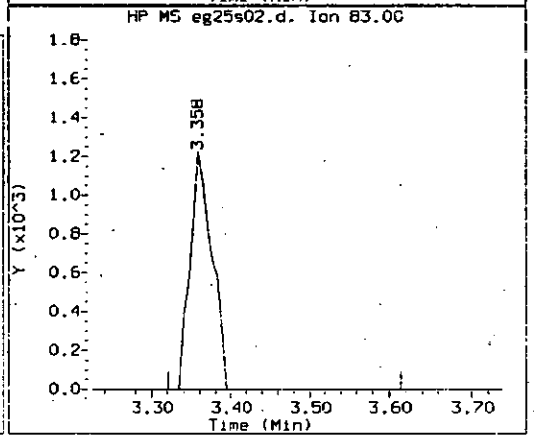
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug25a.b/eg25s02.d
Injection date and time: 25-AUG-2010 11:15

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 15:05 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6061439DL

Compound Number	: 33
Compound Name	: 1,1-Dichloroethane
Scan Number	: 389
Retention Time (minutes)	: 3.358
Relative Retention Time	: 0.000
Quant Ion	: 63.00
Area (flag)	: 18988
On-Column Amount (ng)	: 1.4060

PTL06 0135

Digitally signed by Jason M. Long on 08/25/2010 at 15:06.
Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061440

Data file: /chem/HP15648.i/10aug24b.b/eg24s55.d
Data file Sample Info. Line: XXXXX;6061440;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Injection date and time: **24-AUG-2010 19:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.749(0.018)	289	65	154471 (-21)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1298540 (3)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	918317 (4)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	502650 (4)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.382(0.000)	113	290872	50.096	100%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(-0.001)	102	78521	50.932	102%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1278638	50.350	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	450272	49.979	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.322(0.000)	96	377373	51.297	51.30			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.364(0.000)	63	27843	2.032	2.03			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochlbromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL86 0136

Digitally signed by Sara E. Johnson on 08/24/2010 at 20:21. Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061440

Data file: /chem/HP15648.i/10aug24b.b/eg24s55.d
Injection date and time: **24-AUG-2010 19:08**
Data file Sample Info. Line: XXXXX;6061440;1;0;;;;
Instrument ID: **HP15648.i** Batch: **E102362AA**
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

Total number of targets = 63

Comments: _____

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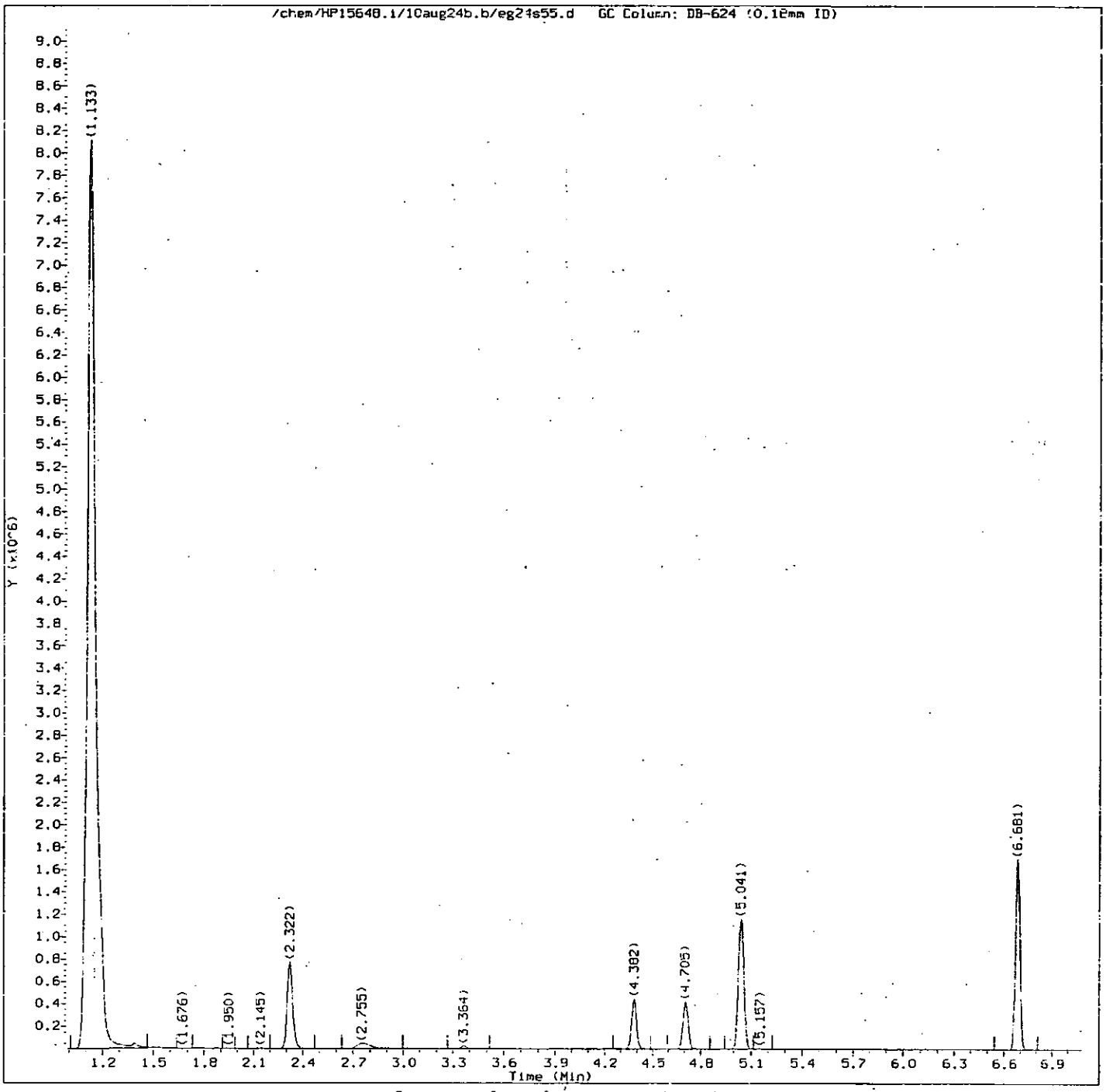
PTL06 8137

Auditor: _____ Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s55.d
Injection date and time: 24-AUG-2010 19:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061440

PTL86 8138

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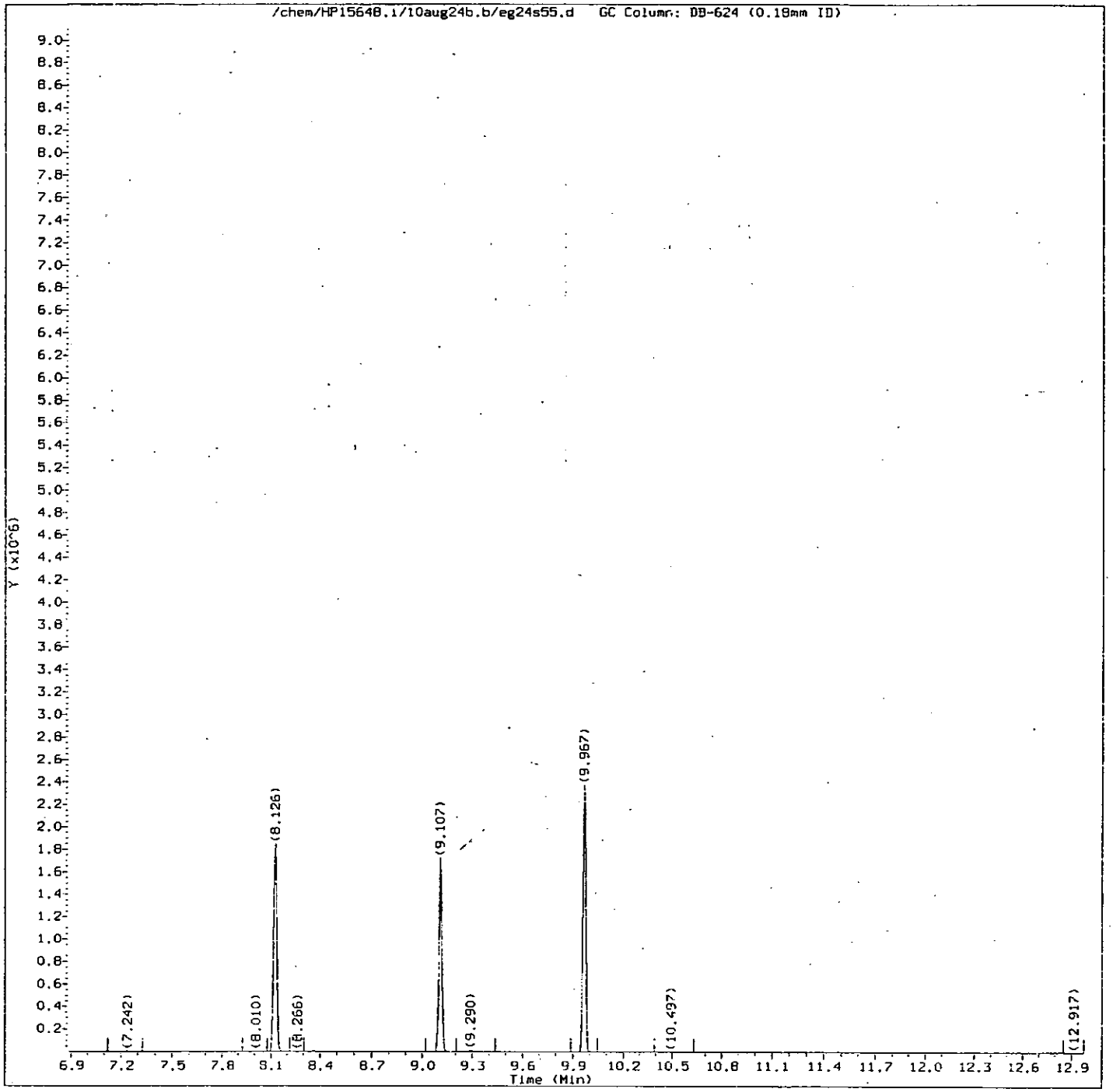
on 08/24/2010 at 20:21.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s55.d
Injection date and time: 24-AUG-2010 19:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061440

PTL86 8139

Digitally signed by Sara E. Johnson
on 08/24/2010 at 20:21.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s55.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXX Lab Sample ID: 6061440

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.322	96	377373	51.297
25)*t-Butyl Alcohol-d10	(4)	2.749	65	154471	250.000
33) 1,1-Dichloroethane	(1)	3.364	63	27843	2.032
50)$Dibromofluoromethane	(1)	4.382	113	290872	50.096
59)$1,2-Dichloroethane-d4	(1)	4.712	102	78521	50.932
69)*Fluorobenzene	(1)	5.041	96	1298540	50.000
90)$Toluene-d8	(2)	6.681	98	1278638	50.350
103)*Chlorobenzene-d5	(2)	8.126	117	918317	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	450272	49.979
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	502650	50.000

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

PTL06 0140

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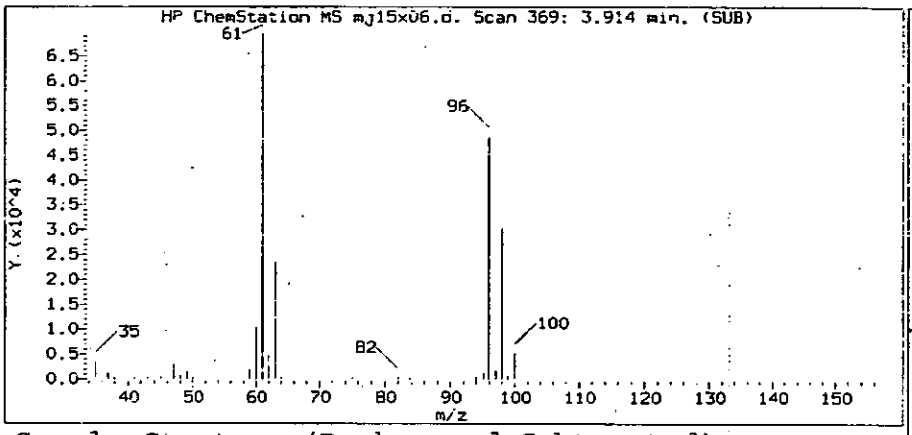
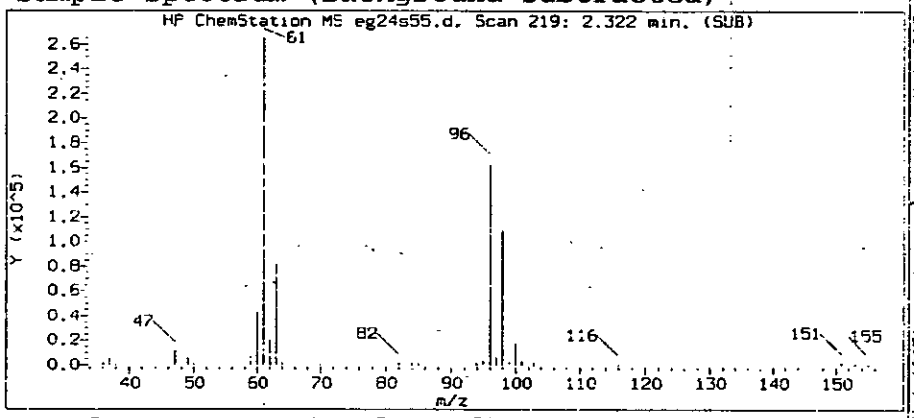
Target 3.5 esignature user ID: sej02002

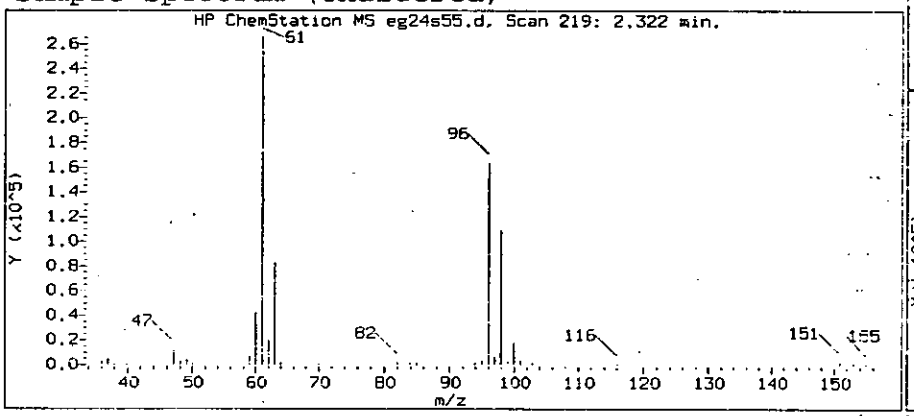
Reference Standard Spectrum for 1,1-Dichloroethene

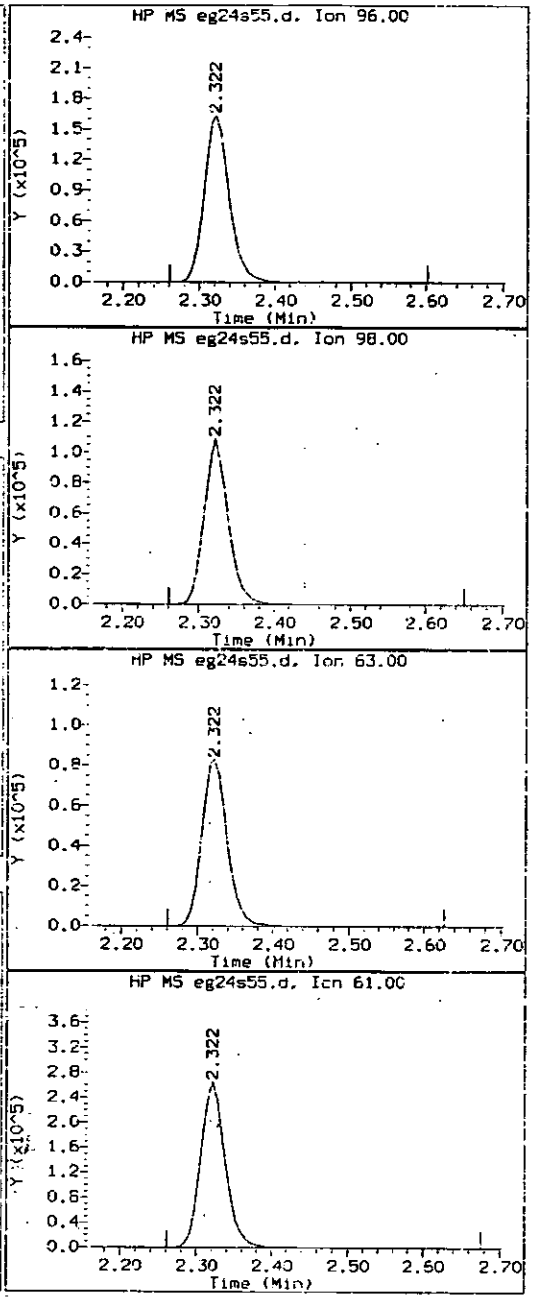


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s55.d
Injection date and time: 24-AUG-2010 19:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061440

Compound Number	: 15
Compound Name	: 1,1-Dichloroethene
Scan Number	: 219
Retention Time (minutes)	: 2.322
Relative Retention Time	: 0.000
Quant Ion	: 96.00
Area (flag)	: 377373
On-Column Amount (ng)	: 51.2970

PTL06 0141

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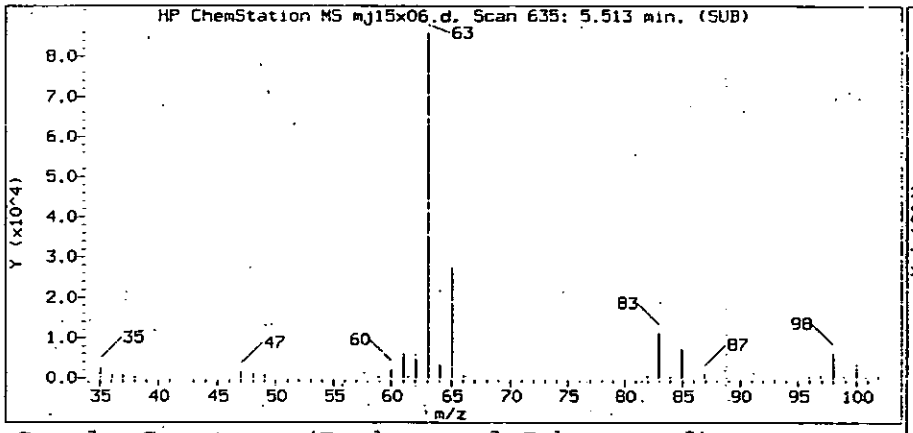
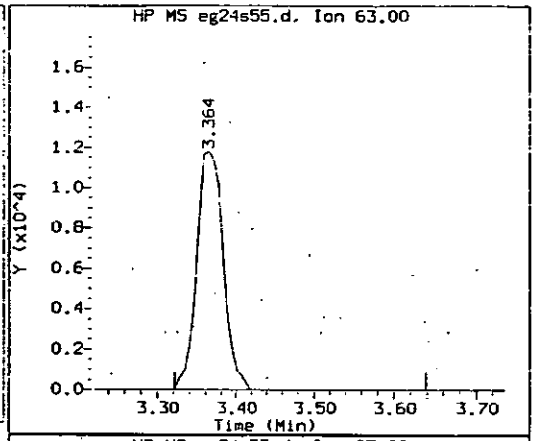
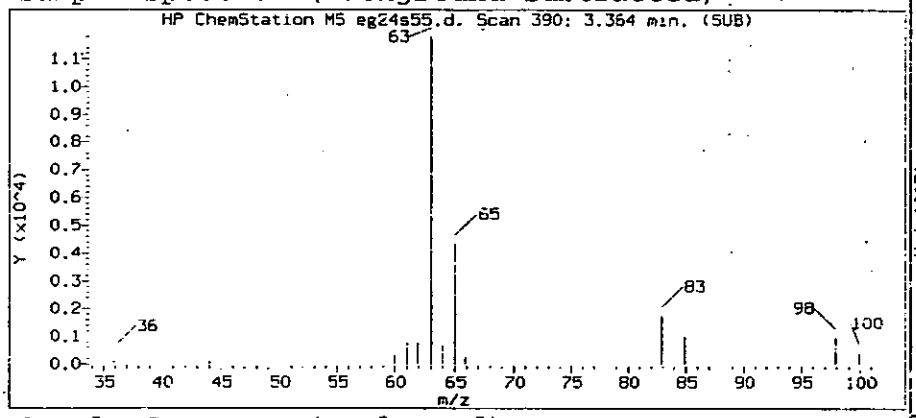
Target 3.5 esignature user ID: sej02002

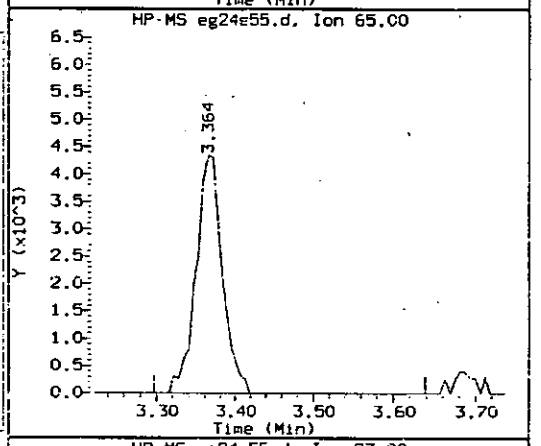
Reference Standard Spectrum for 1,1-Dichloroethane



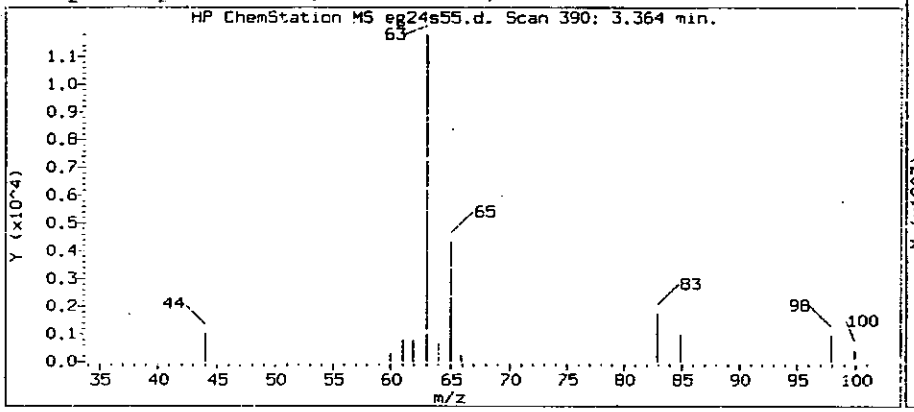


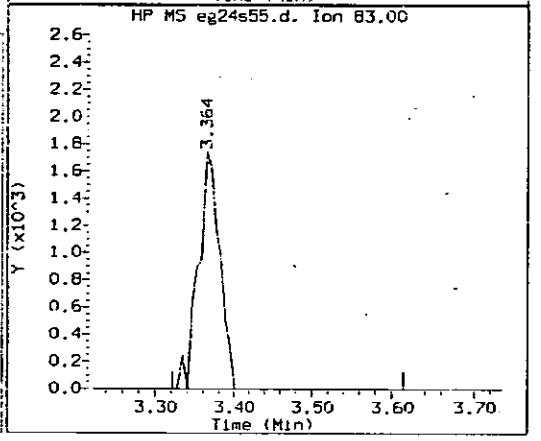
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s55.d
Injection date and time: 24-AUG-2010 19:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061440

Compound Number : 33
Compound Name : 1,1-Dichloroethane
Scan Number : 390
Retention Time (minutes): 3.364
Relative Retention Time : 0.000
Quant Ion : 63.00
Area (flag) : 27843
On-Column Amount (ng) : 2.0317

PTL06 0142

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Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061443

Data file: /chem/HP15648.i/10aug24b.b/eg24s58.d
Data file Sample Info. Line: XXXXX;6061443;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Injection date and time: **24-AUG-2010 20:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.006)	291	65	230910 (18)	250.00	
69) Fluorobenzene	5.047(0.000)	666	96	1283580 (2)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	914354 (4)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	492519 (2)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.382(0.001)	113	290616	50.635	101%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(0.000)	102	78111	51.256	103%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1268872	50.182	100%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	445285	49.540	99%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)	1.968(-0.001)	101	30685	2.518	2.52			2
15) 1,1-Dichloroethene	(1)	2.328(0.000)	96	6500501	893.923	893.92		E	0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.370(0.000)	63	235400	17.377	17.38			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)	4.230(0.000)	83	16495	1.375	1.37			0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)	4.795(0.001)	62	18277	2.045	2.04			1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL061 0143

E = Compound concentration above calibration range.

Digitally signed by Sara E. Johnson on 08/24/2010 at 21:27. Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061443

Data file: /chem/HP15648.i/10aug24b.b/eg24s58.d
Data file Sample Info. Line: XXXXX;6061443;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Injection date and time: **24-AUG-2010 20:08**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

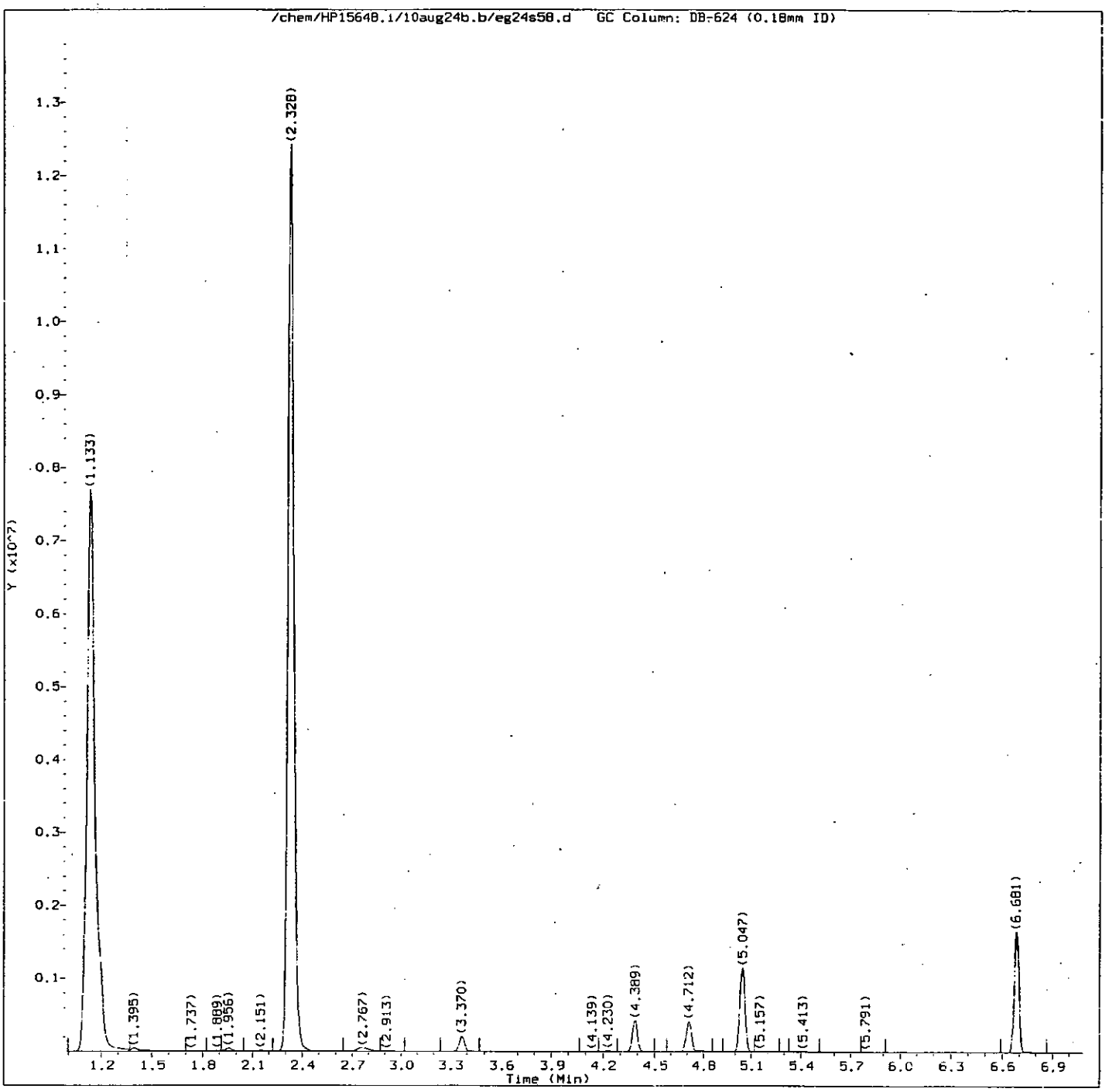
Total number of targets = 63

Comments:

Digitally signed by Sara E. Johnson on 08/24/2010 at 21:27. Target 3.5 esignature user ID: sej02002

PTL06 0144

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

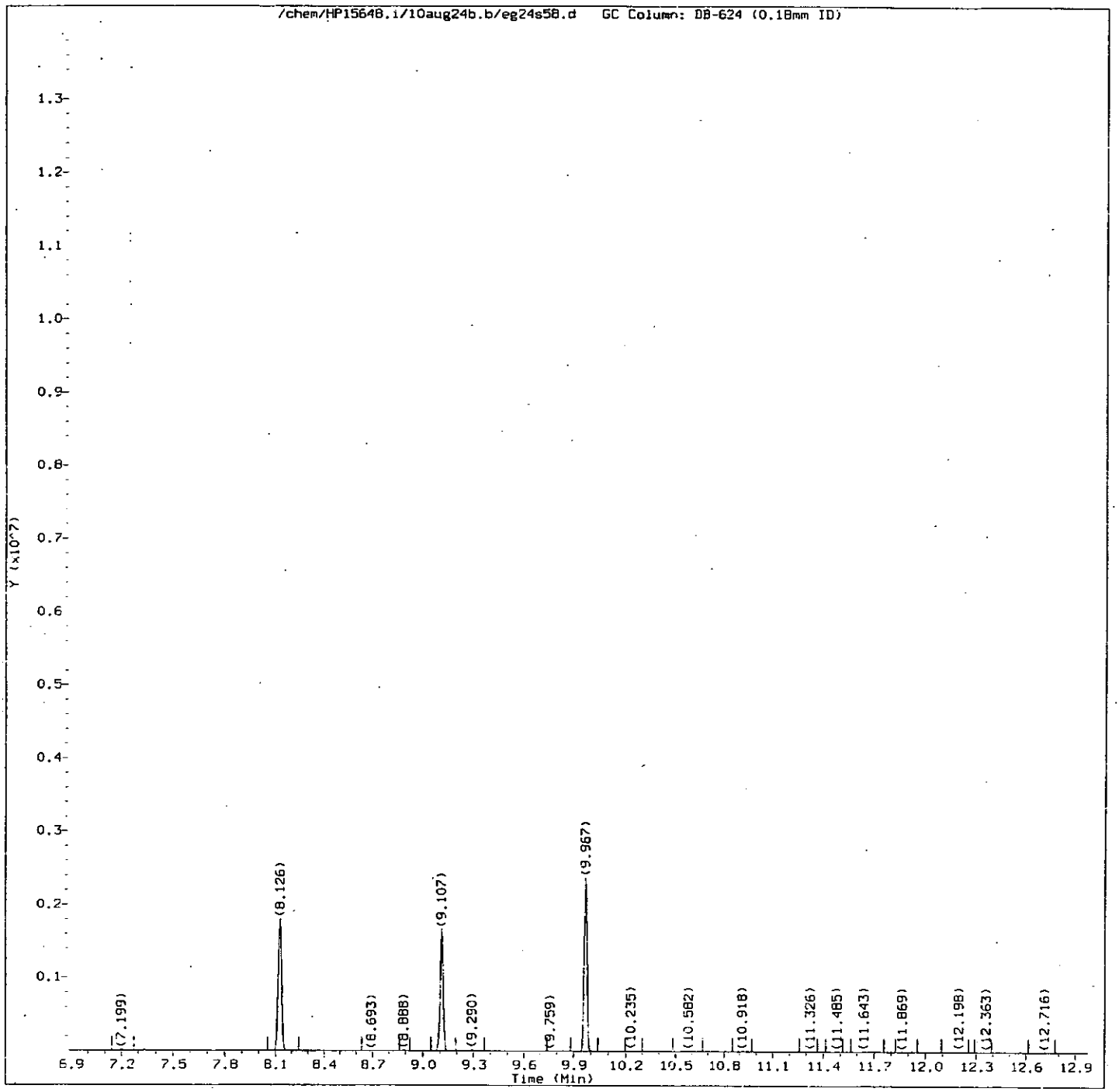
Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s58.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 20:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Sample Name: XXXXX Lab Sample ID: 6061443 PTL06 0145

Digitally signed by Sara E. Johnson
on 08/24/2010 at 21:27.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s58.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 20:08 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Sample Name: XXXXX Lab Sample ID: 6061443 PTL86 8146

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on 08/24/2010 at 21:27.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s58.d
Injection date and time: 24-AUG-2010 20:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061443

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
8) Trichlorofluoromethane	(1)	1.968	101	30685	2.518
15) 1,1-Dichloroethene	(1)	2.328	96	6500501	893.923
25)*t-Butyl Alcohol-d10	(4)	2.761	65	230910	250.000
33) 1,1-Dichloroethane	(1)	3.370	63	235400	17.377
47) Chloroform	(1)	4.230	83	16495	1.375
50)$Dibromofluoromethane	(1)	4.382	113	290616	50.635
59)$1,2-Dichloroethane-d4	(1)	4.712	102	78111	51.256
65) 1,2-Dichloroethane	(1)	4.785	62	18277	2.045
69)*Fluorobenzene	(1)	5.047	96	1283580	50.000
90)$Toluene-d8	(2)	6.681	98	1268872	50.182
103)*Chlorobenzene-d5	(2)	8.126	117	914354	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	445285	49.640
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	492510	50.000

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

PTL86 8147

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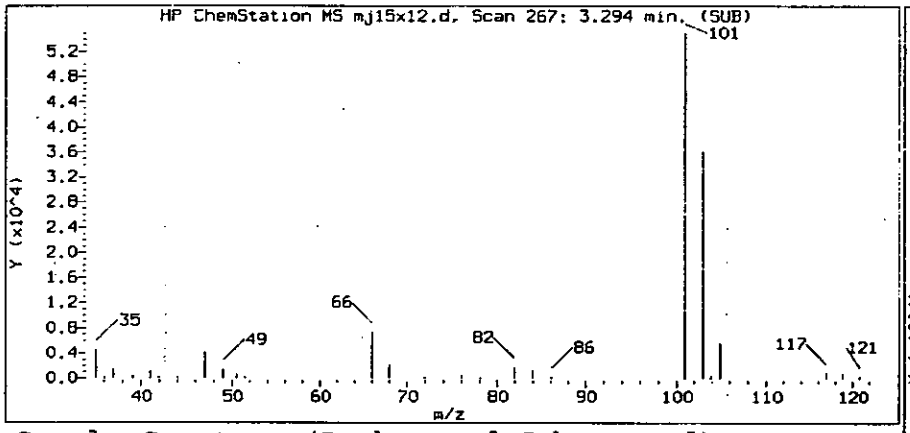
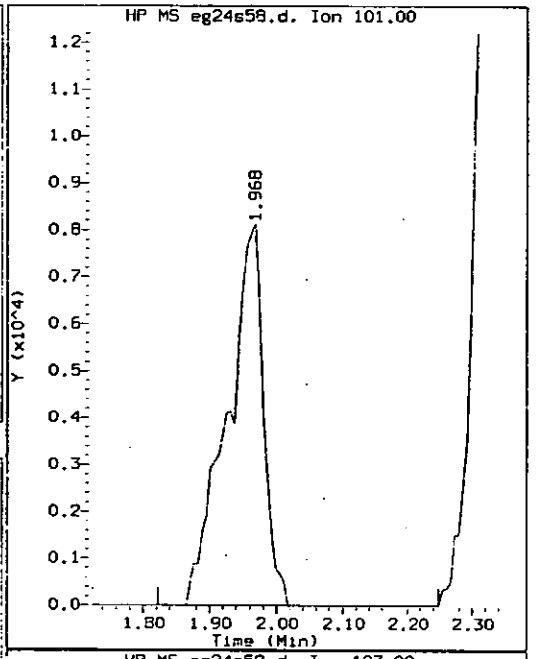
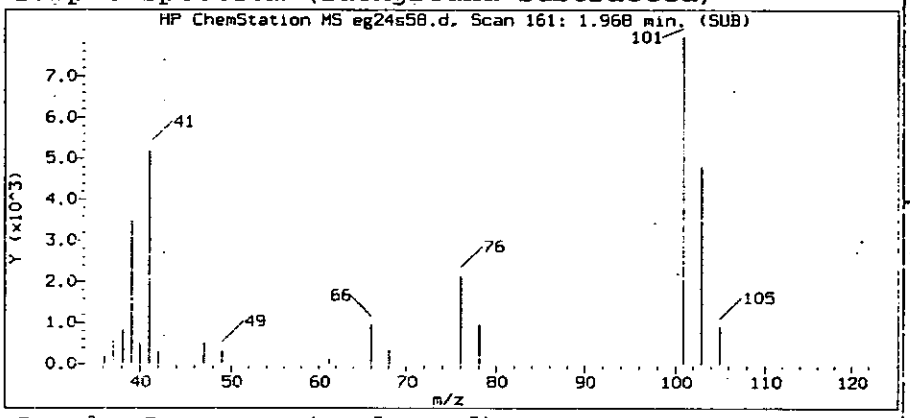
Target 3.5 esignature user ID: sej02002

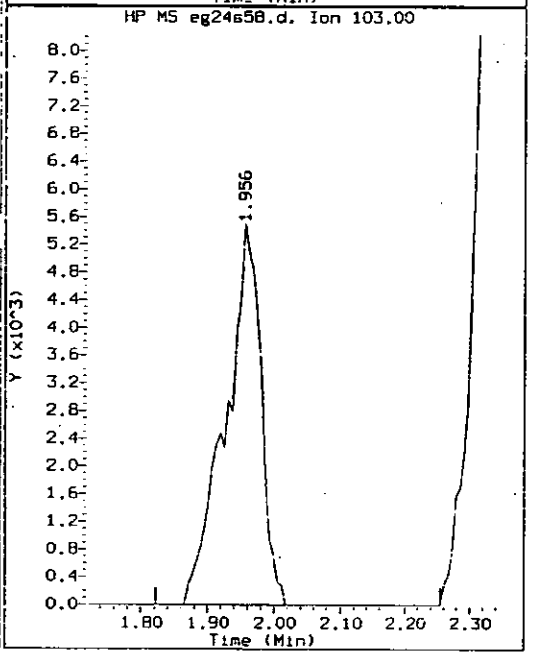
Reference Standard Spectrum for Trichlorofluoromethane



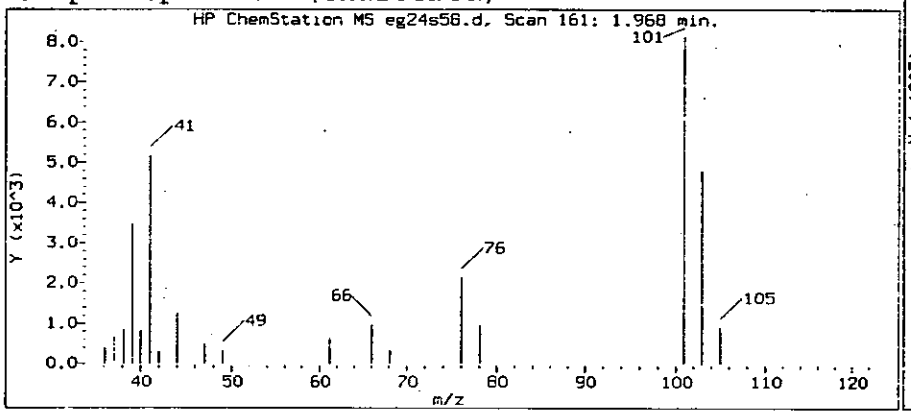


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP15648.i/10aug24b.b/eg24s58.d
Injection date and time: 24-AUG-2010 20:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061443

Compound Number	: 8
Compound Name	: Trichlorofluoromethane
Scan Number	: 161
Retention Time (minutes)	: 1.968
Relative Retention Time	: -0.001
Quant Ion	: 101.00
Area (flag)	: 30685
On-Column Amount (ng)	: 2.5179

PTL06 0149

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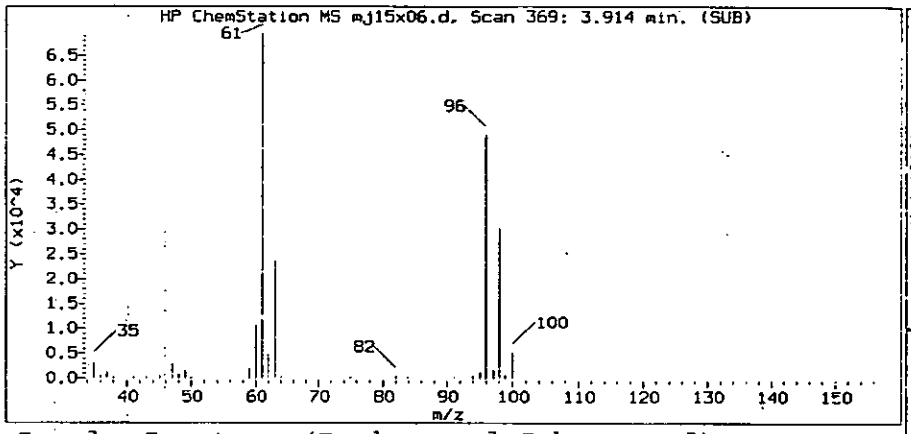
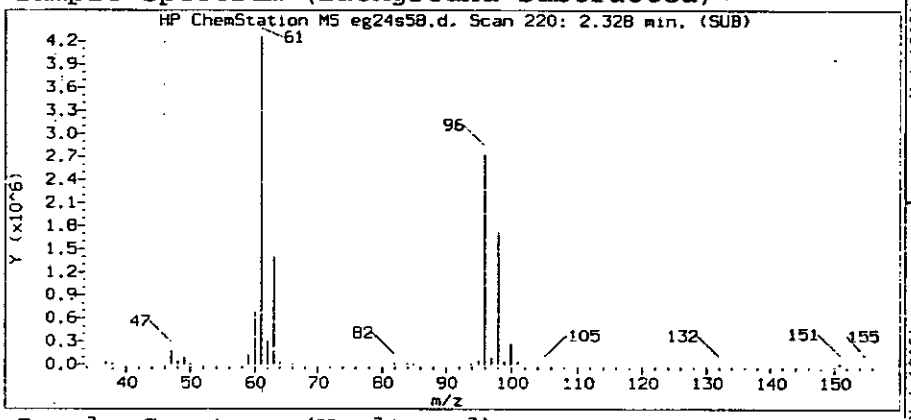
Target 3.5 esignature user ID: sej02002

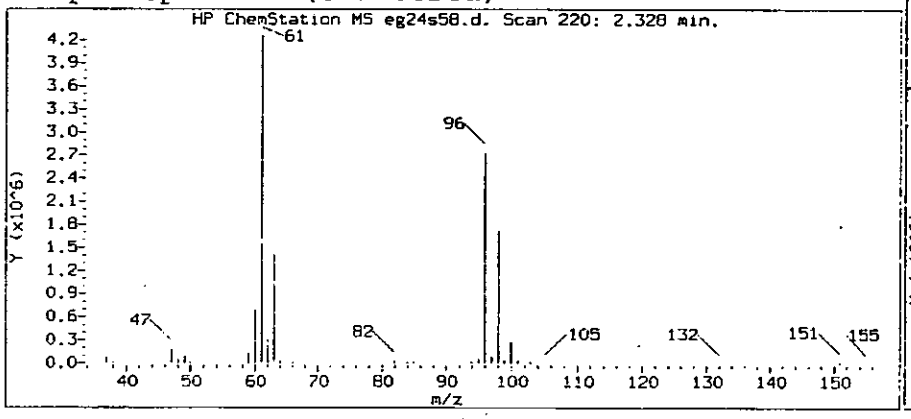
Reference Standard Spectrum for 1,1-Dichloroethene

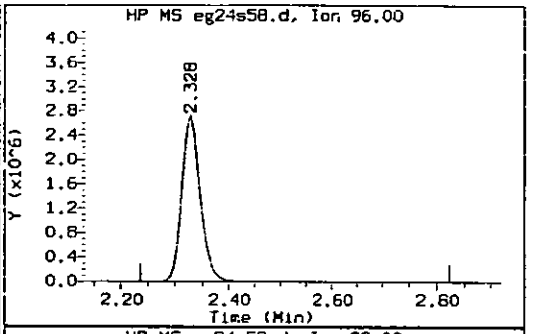


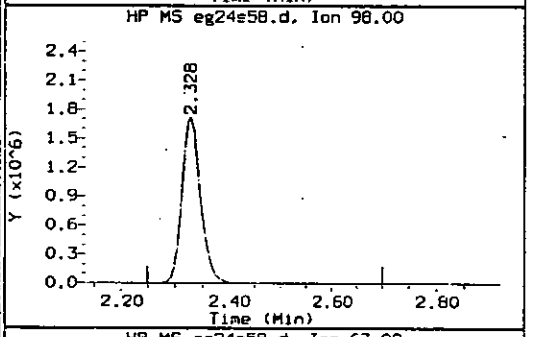
Sample Spectrum (Background Subtracted)

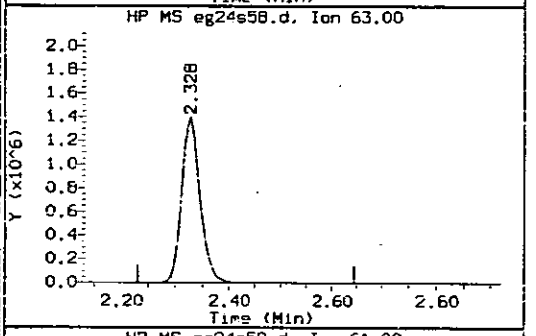


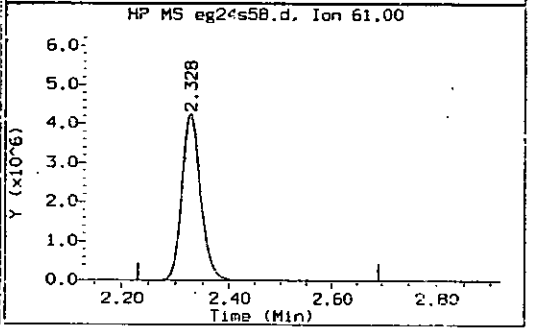
Sample Spectrum (Unaltered)











Data File: /chem/HP15648.i/10aug24b.b/eg24s58.d
Injection date and time: 24-AUG-2010 20:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061443

Compound Number	: 15
Compound Name	: 1,1-Dichloroethene
Scan Number	: 220
Retention Time (minutes)	: 2.328
Relative Retention Time	: 0.000
Quant Ion	: 96.00
Area (flag)	: 6500501
On-Column Amount (ng)	: 893.9228

PTL86 8149

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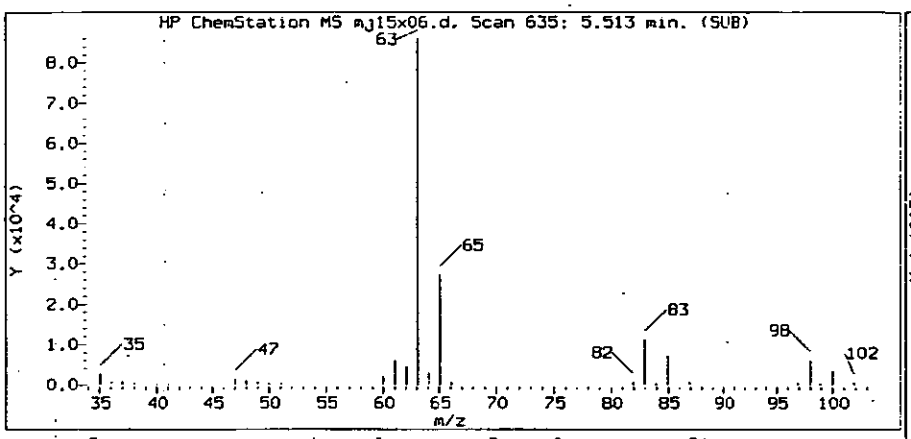
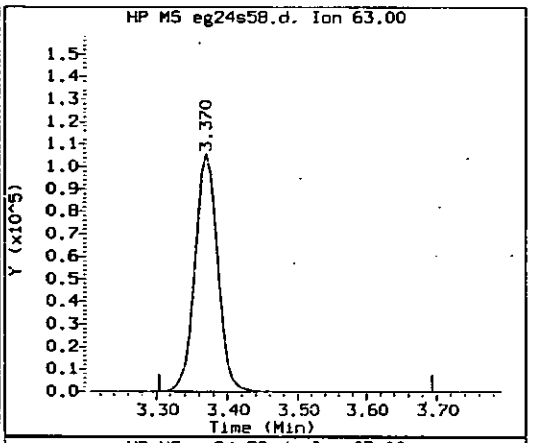
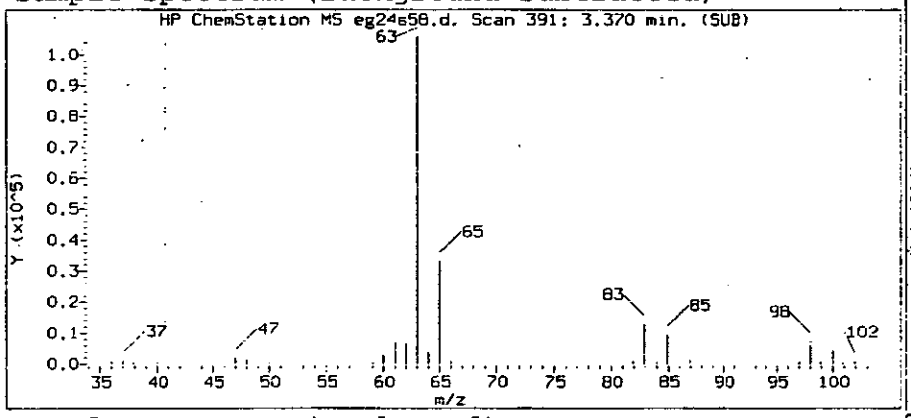
Target 3.5 esignature user ID: sej02002

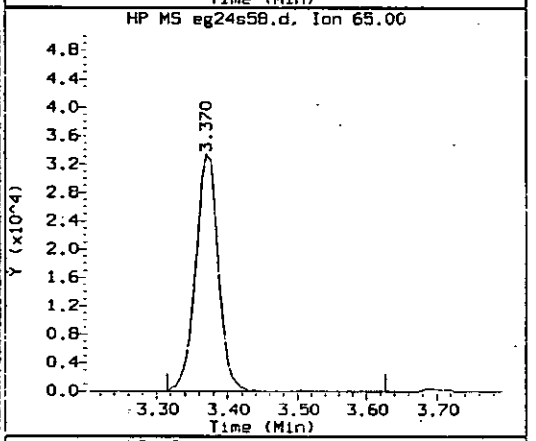
Reference Standard Spectrum for 1,1-Dichloroethane



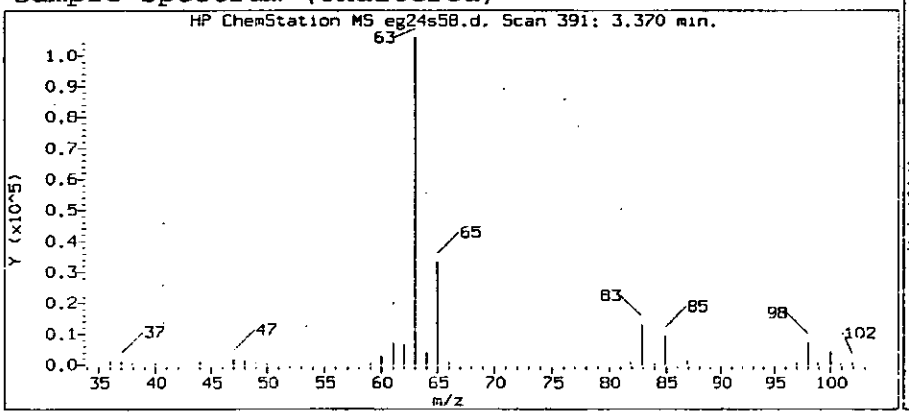


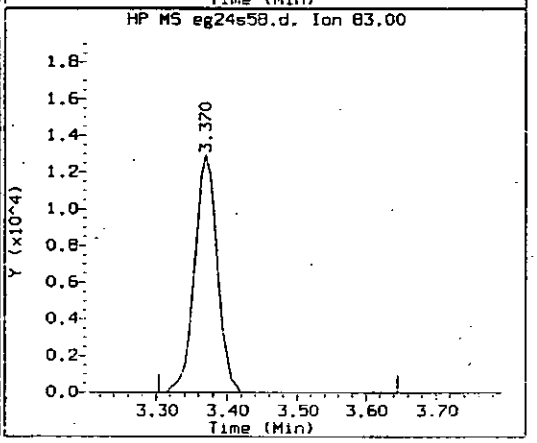
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s58.d
Injection date and time: 24-AUG-2010 20:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061443

Compound Number : 33
Compound Name : 1,1-Dichloroethane
Scan Number : 391
Retention Time (minutes): 3.370
Relative Retention Time : 0.000
Quant Ion : 63.00
Area (flag) : 235400
On-Column Amount (ng) : 17.3775

PTL06 0150

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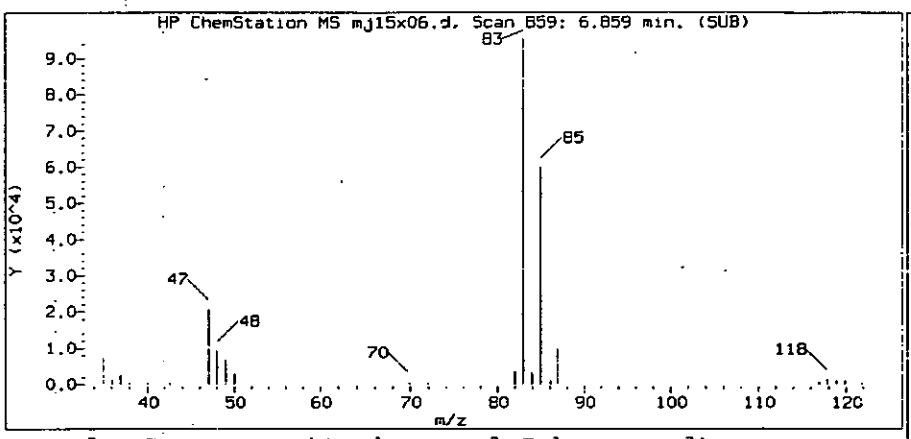
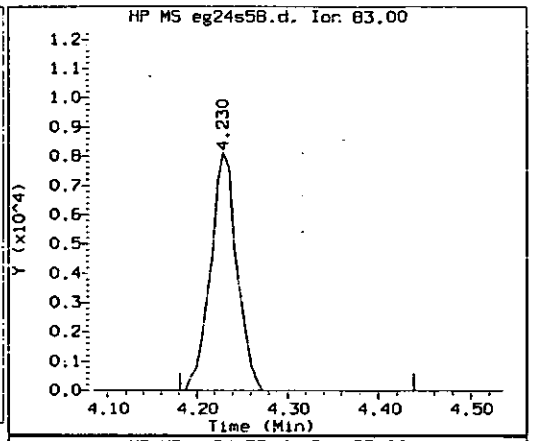
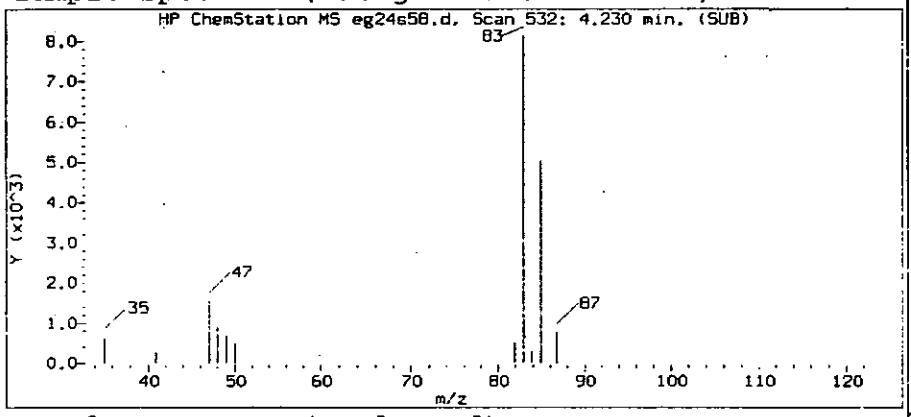
Target 3.5 esignature user ID: sej02002

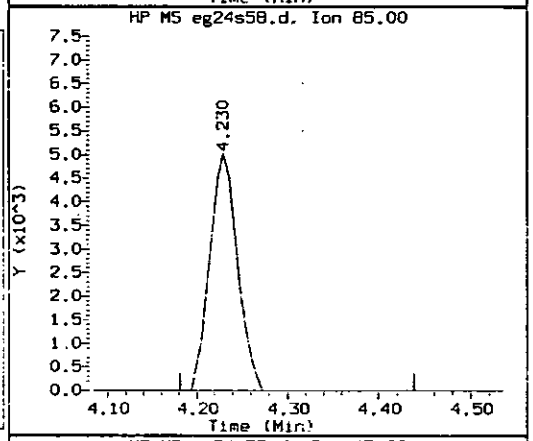
Reference Standard Spectrum for Chloroform



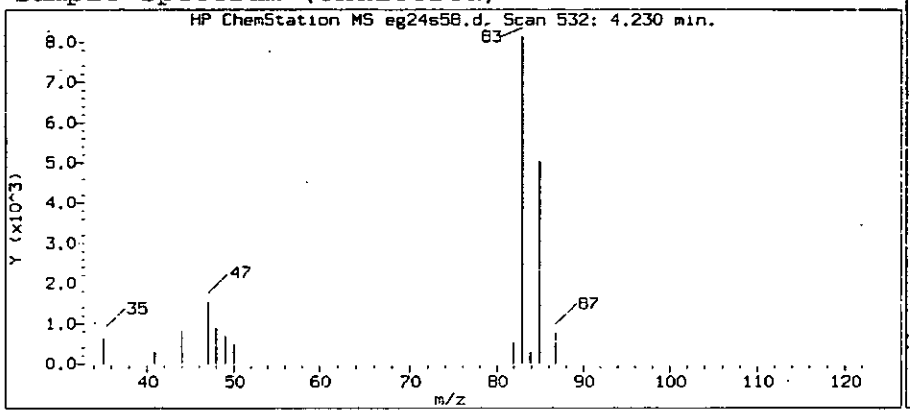


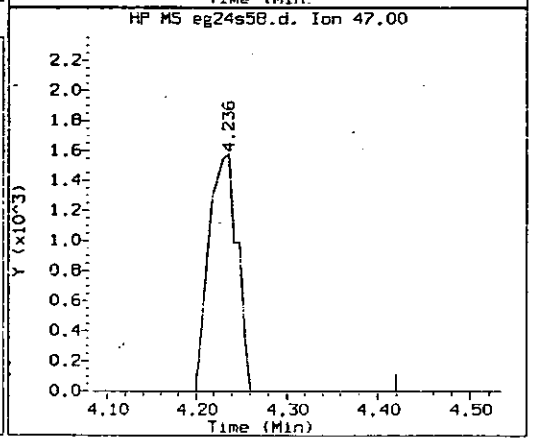
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s58.d
Injection date and time: 24-AUG-2010 20:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061443

Compound Number	: 47
Compound Name	: Chloroform
Scan Number	: 532
Retention Time (minutes)	: 4.230
Relative Retention Time	: 0.000
Quant Ion	: 83.00
Area (flag)	: 16495
On-Column Amount (ng)	: 1.3749

PTL06 0151

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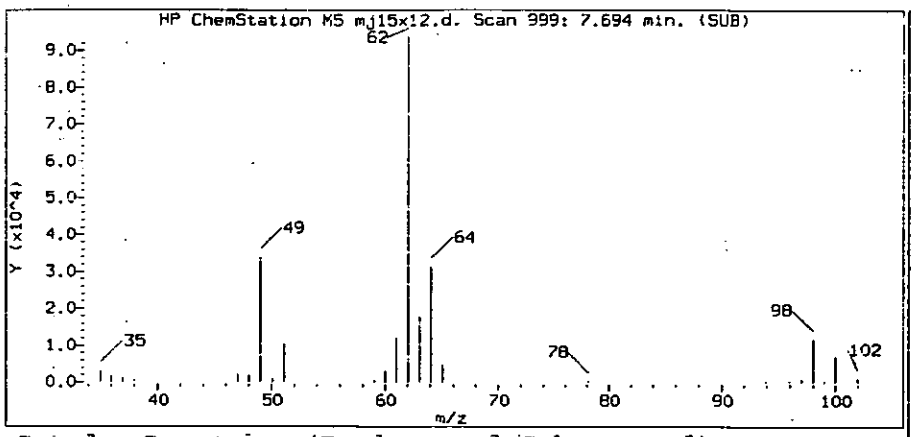
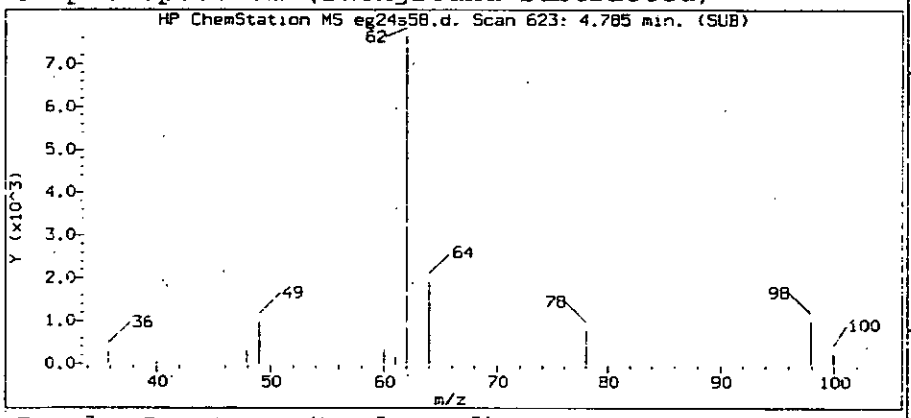
Target 3.5 esignature user ID: sej02002

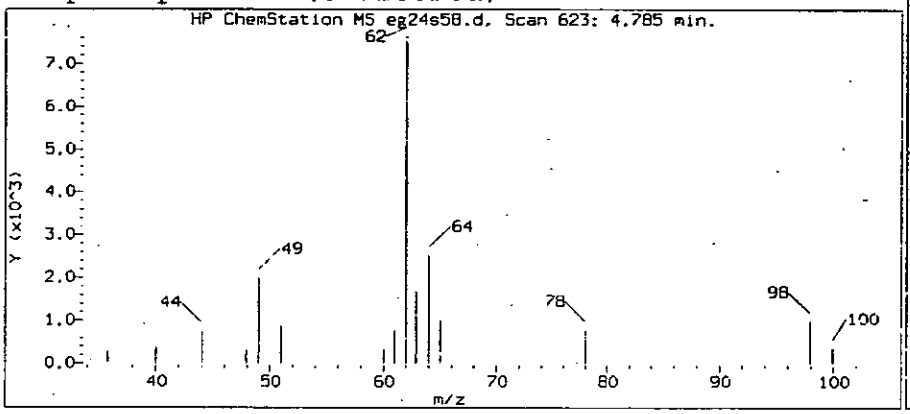
Reference Standard Spectrum for 1,2-Dichloroethane

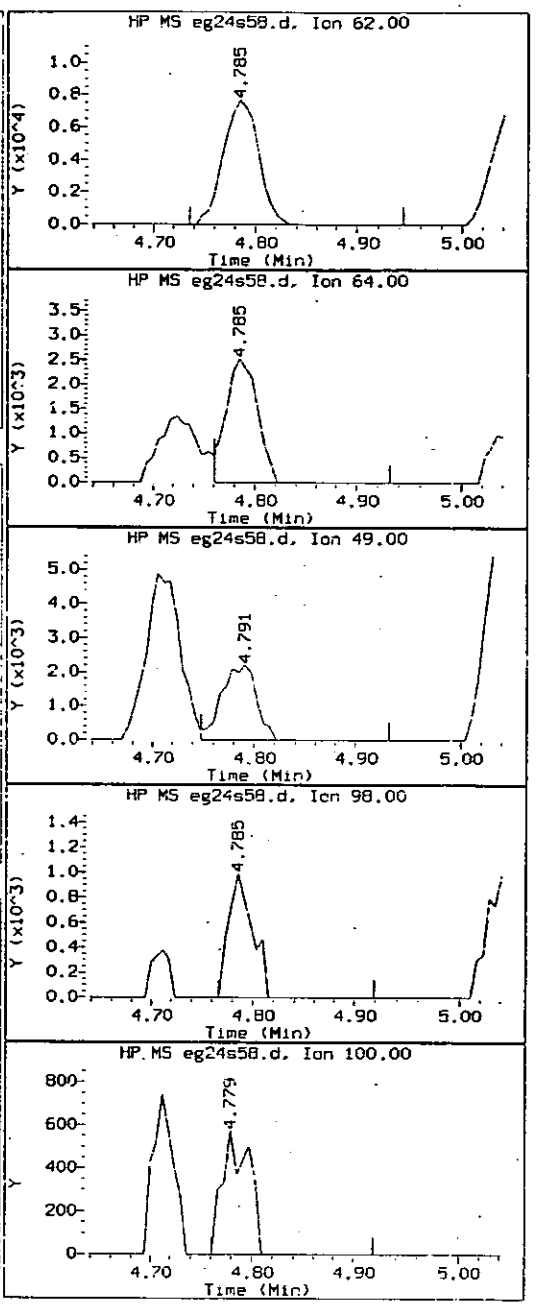


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s58.d
Injection date and time: 24-AUG-2010 20:08

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:27 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061443

Compound Number	: 65
Compound Name	: 1,2-Dichloroethane
Scan Number	: 623
Retention Time (minutes)	: 4.785
Relative Retention Time	: 0.001
Quant Ion	: 62.00
Area (flag)	: 18277
On-Column Amount (ng)	: 2.0449

PTL06 0152

Digitally signed by Sara E. Johnson on 08/24/2010 at 21:27.
Target 3.5 esignature user ID: sej02002

XXXXXDL

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061443DL

Data file: /chem/HP15648.i/10aug24b.b/eg24s74.d
Data file Sample Info: Line: XXXXXDL;6061443DL;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:58 jml01693

Injection date and time: **25-AUG-2010 01:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38B** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **10.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 0.5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.006)	291	65	143760 (-27)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1296183 (3)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	914424 (4)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	499331 (3)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.383(0.000)	113	287992	49.690	99%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(-0.001)	102	77924	50.636	101%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1285305	50.828	102%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	452368	50.425	101%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.322(0.000)	96	446996	60.871	608.71			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)	3.364(0.000)	63	18445	1.348	13.48			1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL86 18153

Digitally signed by Jason M. Long on 08/25/2010 at 08:00. Target 3.5 esignature user ID: jml01693

XXXXXDL

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061443DL

Data file: /chem/HP15648.i/10aug24b.b/eg24s74.d
Data file Sample Info. Line: XXXXXDL;6061443DL;1;0;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 07:58 jml01693

Injection date and time: **25-AUG-2010 01:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38B** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **10.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 0.5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)				Not Detected					1
104) Chlorobenzene	(2)				Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)				Not Detected					1
107) Ethylbenzene	(2)				Not Detected					0.8
108) m+p-Xylene	(2)				Not Detected					0.8
110) o-Xylene	(2)				Not Detected					0.8
111) Styrene	(2)				Not Detected					1
112) Bromoform	(2)				Not Detected					1
113) Isopropylbenzene	(2)				Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1
118) Bromobenzene	(3)				Not Detected					1
120) 1,2,3-Trichloropropane	(3)				Not Detected					1
122) n-Propylbenzene	(3)				Not Detected					1
123) 2-Chlorotoluene	(3)				Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)				Not Detected					1
125) 4-Chlorotoluene	(3)				Not Detected					1
127) tert-Butylbenzene	(3)				Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)				Not Detected					1
132) sec-Butylbenzene	(3)				Not Detected					1
134) p-Isopropyltoluene	(3)				Not Detected					1
133) 1,3-Dichlorobenzene	(3)				Not Detected					1
136) 1,4-Dichlorobenzene	(3)				Not Detected					1
141) n-Butylbenzene	(3)				Not Detected					1
142) 1,2-Dichlorobenzene	(3)				Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)				Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)				Not Detected					1
147) Hexachlorobutadiene	(3)				Not Detected					2
148) Naphthalene	(3)				Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)				Not Detected					1

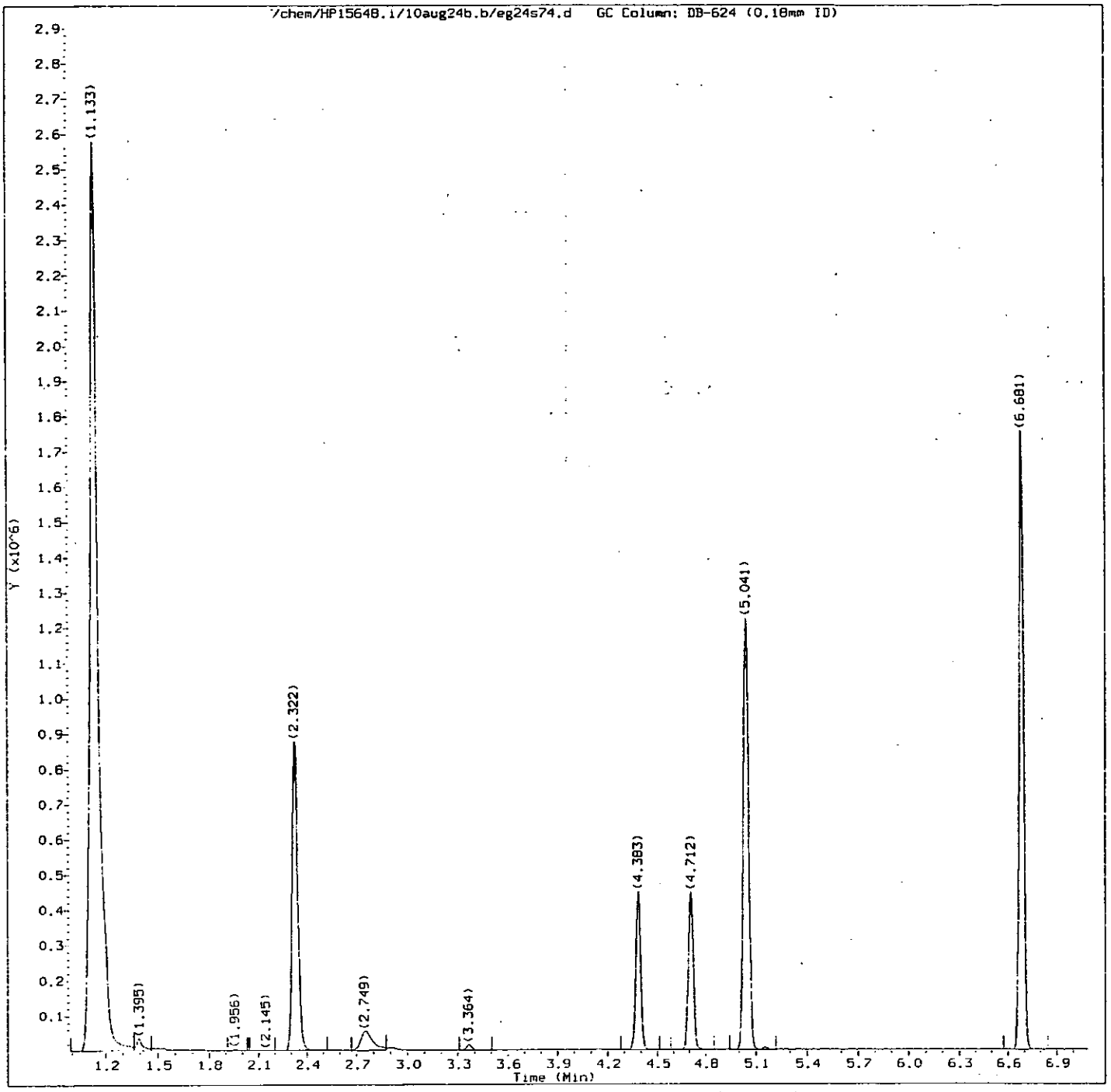
Total number of targets = 63

Comments:

Digitally signed by Jason M. Long on 08/25/2010 at 08:00. Target 3.5 esignature user ID: jml01693

PTL86 0154

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s74.d
Injection date and time: 25-AUG-2010 01:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

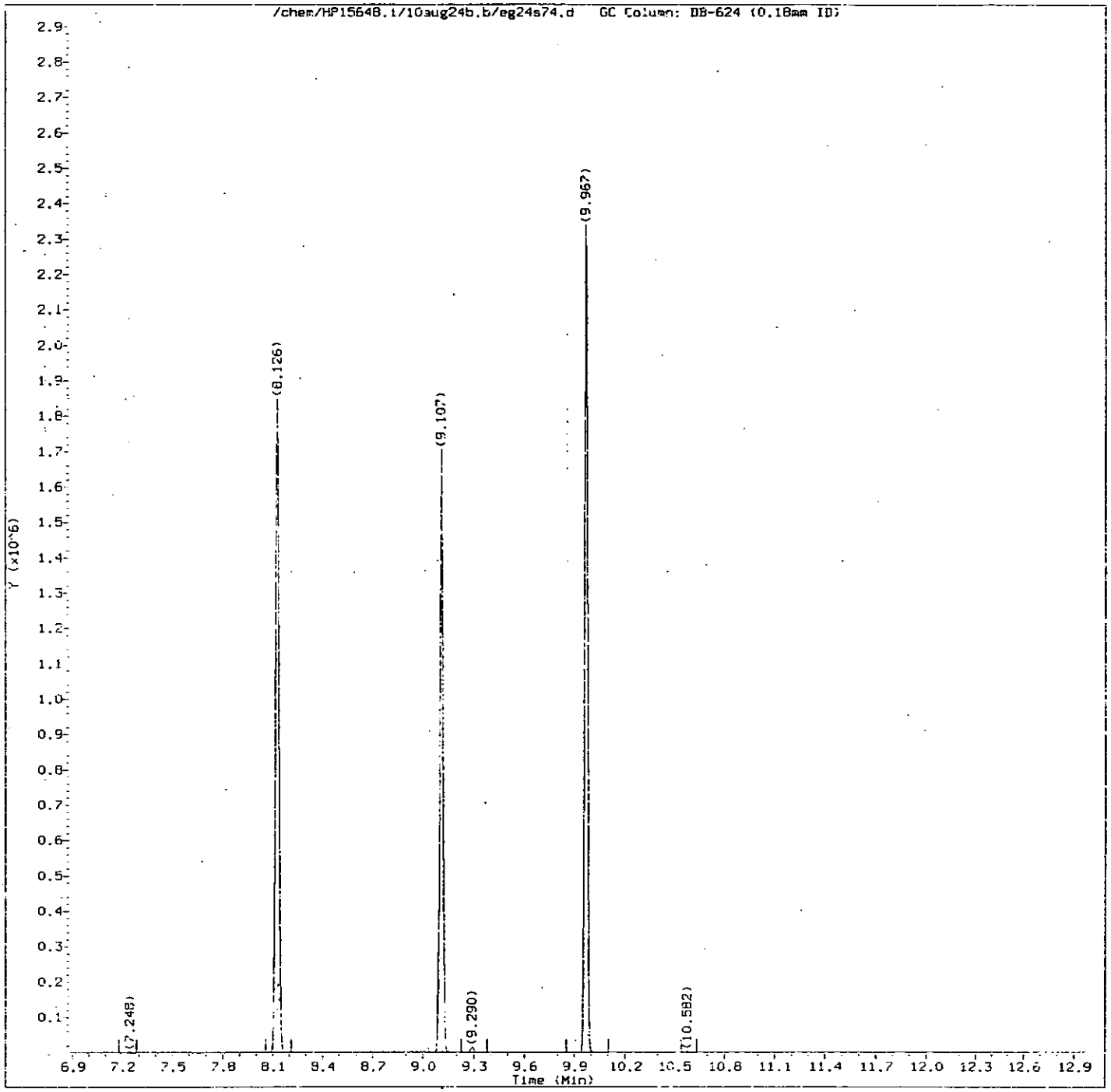
Date, time and analyst ID of latest file update: 25-Aug-2010 07:58 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6061443DL

PTL86 0155

Digitally signed by Jason M. Long
on 08/25/2010 at 08:00.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s74.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 01:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:58 jml01693

Sample Name: XXXXXDL Lab Sample ID: 6061443DL PTL86 8156

Digitally signed by Jason M. Long
on 08/25/2010 at 08:00.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s74.d
Injection date and time: 25-AUG-2010 01:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:58 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6061443DL

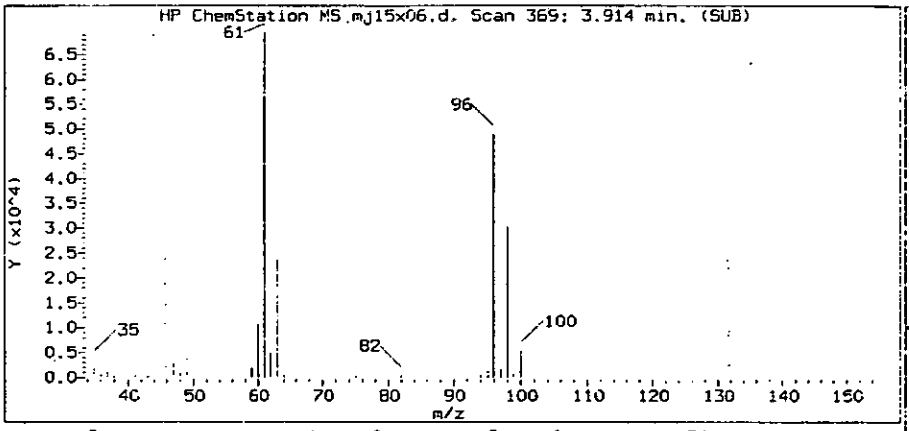
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.322	96	446996	60.871
25)*t-Butyl Alcohol-d10	(4)	2.761	65	143760	250.000
33) 1,1-Dichloroethane	(1)	3.364	63	18445	1.348
50)$Dibromofluoromethane	(1)	4.383	113	287992	49.690
59)$1,2-Dichloroethane-d4	(1)	4.712	102	77924	50.636
69)*Fluorobenzene	(1)	5.041	96	1296183	50.000
90)$Toluene-d8	(2)	6.681	98	1285305	50.828
103)*Chlorobenzene-d5	(2)	8.126	117	914424	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	452368	50.425
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	499331	50.000

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

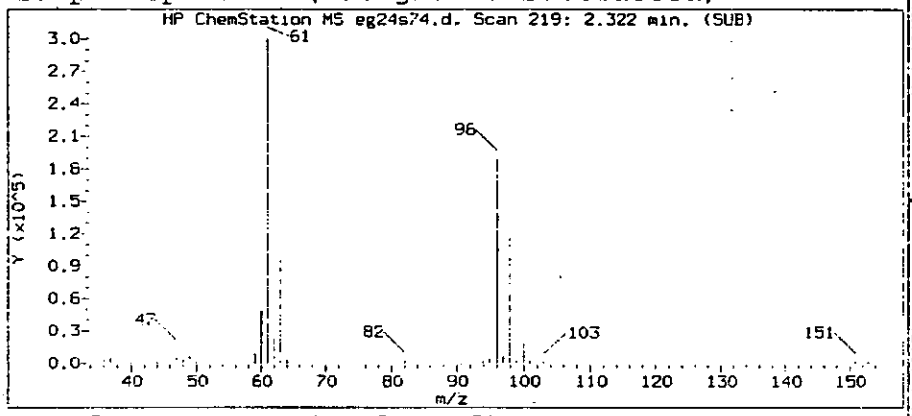
PTL86 0157

Digitally signed by Jason M. Long
on 08/25/2010 at 08:00.
Target 3.5 esignature user ID: jml01693

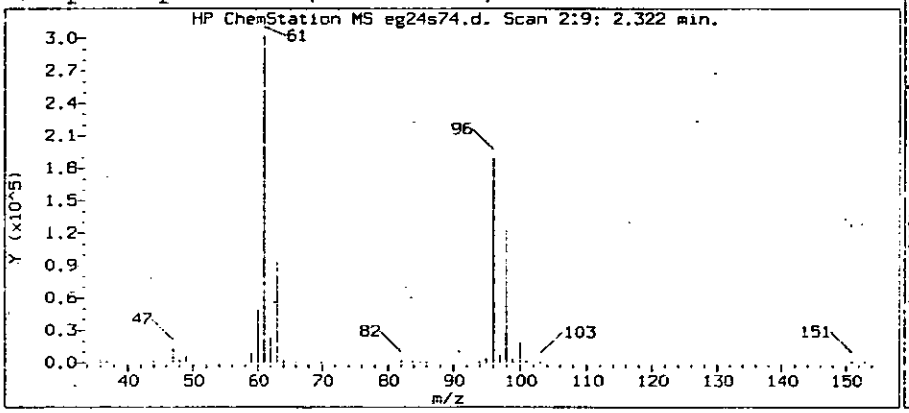
Reference Standard Spectrum for 1,1-Dichloroethene

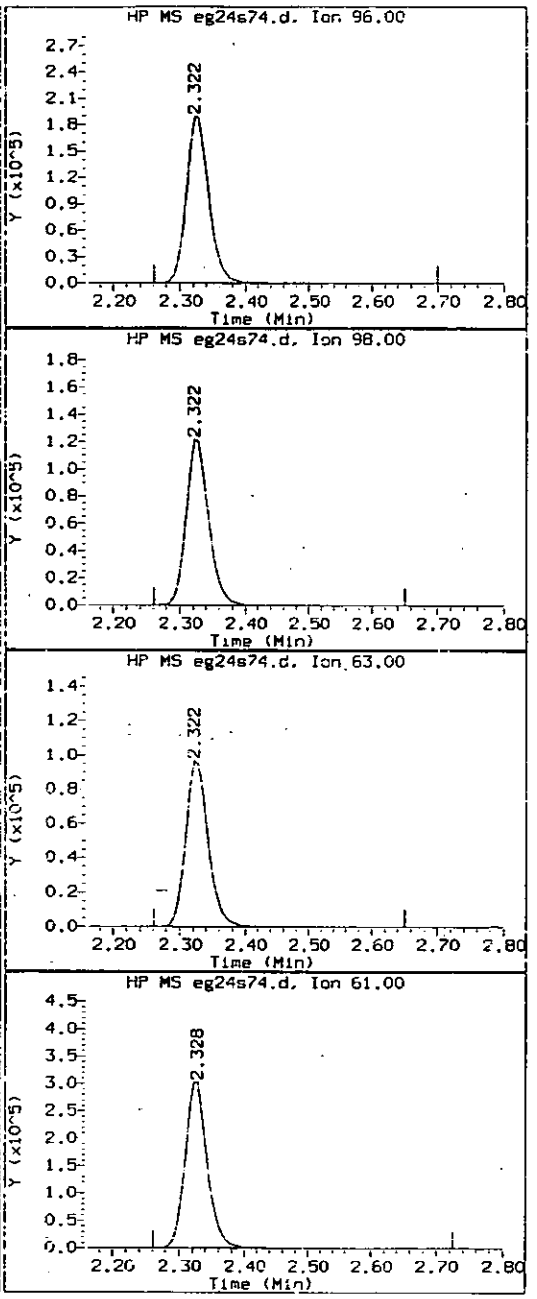


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s74.d
Injection date and time: 25-AUG-2010 01:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 25-Aug-2010 07:58 jml01693

Sample Name: XXXXXDL

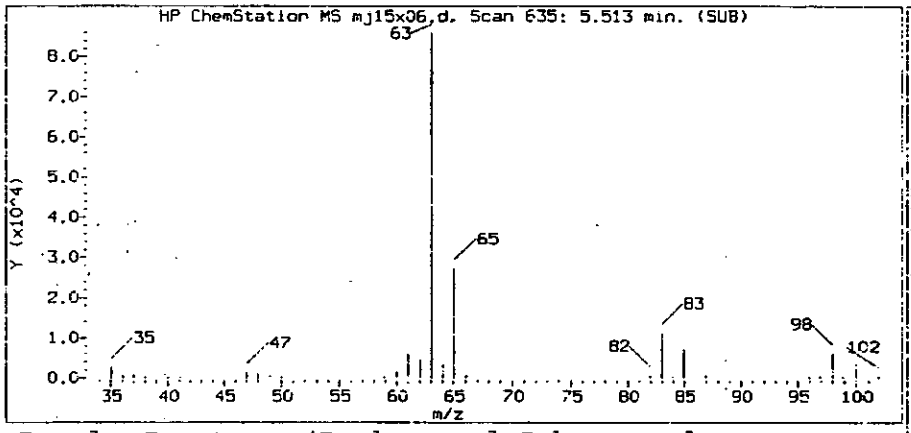
Lab Sample ID: 6061443DL

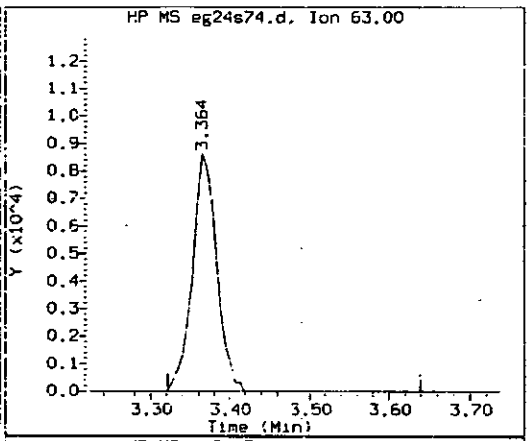
Compound Number : 15
Compound Name : 1,1-Dichloroethene
Scan Number : 219
Retention Time (minutes): 2.322
Relative Retention Time : 0.000
Quant Ion : 96.00
Area (flag) : 446996
On-Column Amount (ng) : 60.8714

PTL86 6158

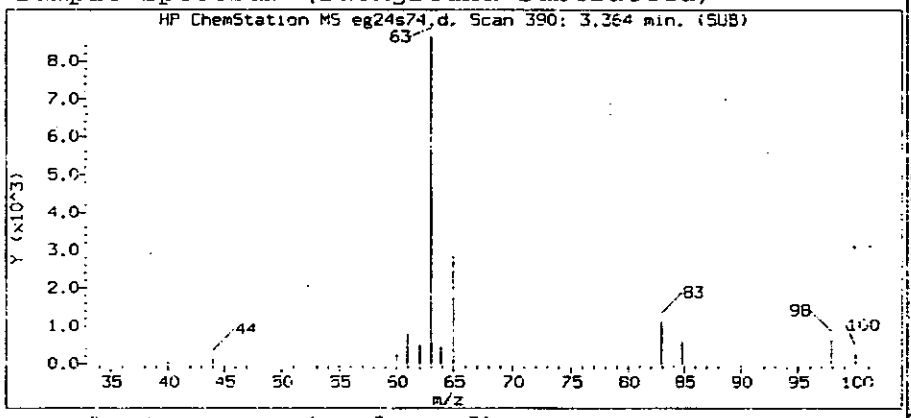
Digitally signed by Jason M. Long on 08/25/2010 at 08:00.
Target 3.5 esignature user ID: jml01693

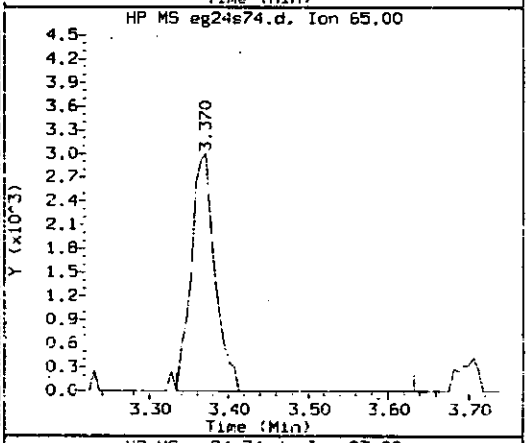
Reference Standard Spectrum for 1,1-Dichloroethane



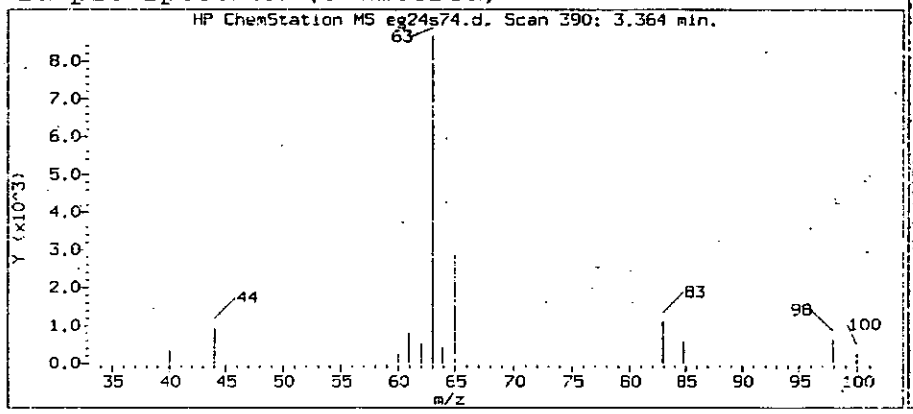


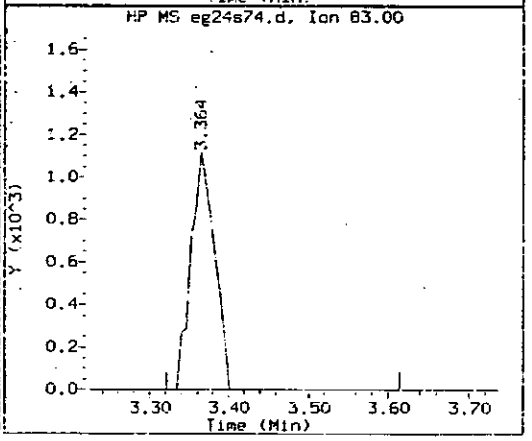
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s74.d
Injection date and time: 25-AUG-2010 01:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 25-Aug-2010 07:58 jml01693

Sample Name: XXXXXDL
Lab Sample ID: 6061443DL

Compound Number	: 33
Compound Name	: 1,1-Dichloroethane
Scan Number	: 390
Retention Time (minutes)	: 3.364
Relative Retention Time	: 0.000
Quant Ion	: 63.00
Area (flag)	: 18445
On-Column Amount (ng)	: 1.3484

PTL86 0159

Digitally signed by Jason M. Long on 08/25/2010 at 08:00.
Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061444

Data file: /chem/HP15648.i/10aug24b.b/eg24s59.d
Data file Sample Info. Line: XXXXX;6061444;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 21:28 sej02002

Injection date and time: **24-AUG-2010 20:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.006)	291	65	150301 (-23)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1277543 (2)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	897984 (2)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	491497 (1)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.382(0.000)	113	262601	49.471	99%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.705(0.000)	102	77498	51.094	102%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1247248	50.226	100%		90 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	442728	50.254	101%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)			Not Detected					0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)			Not Detected					1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL06 0168

Digitally signed by Sara E. Johnson on 08/24/2010 at 21:28. Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061444

Data file: /chem/HP15648.i/10aug24b.b/eg24s59.d
Data file Sample Info. Line: XXXXX;6061444;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 21:28 sej02002

Injection date and time: **24-AUG-2010 20:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

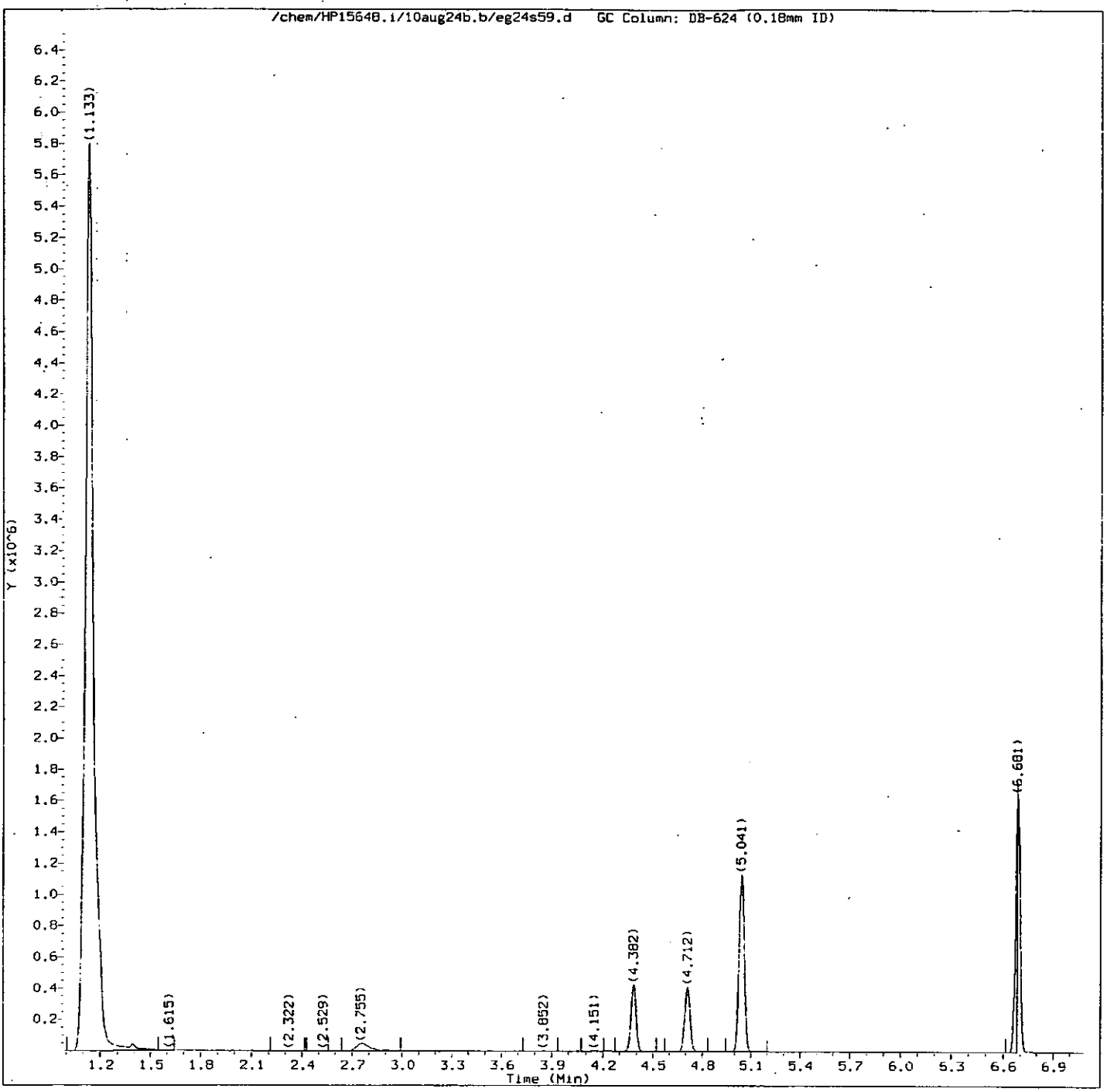
Total number of targets = 63

Comments:

Digitally signed by Sara E. Johnson on 08/24/2010 at 21:28. Target 3.5 esignature user ID: sej02002

PTL06 8161

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s59.d
Injection date and time: 24-AUG-2010 20:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

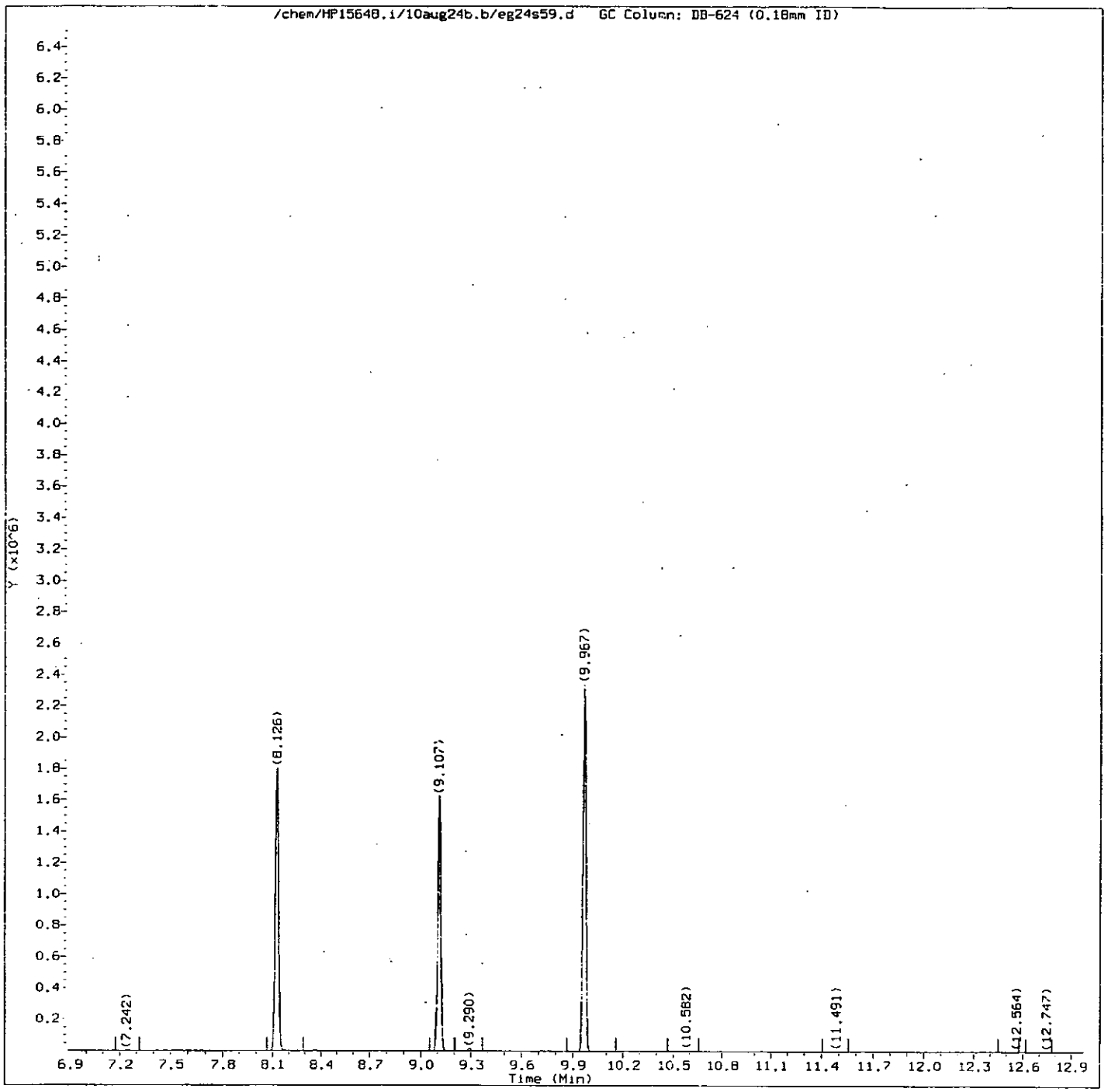
Date, time and analyst ID of latest file update: 24-Aug-2010 21:28 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061444

PTL86 8162

Digitally signed by Sara E. Johnson
on 08/24/2010 at 21:28.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s59.d
Injection date and time: 24-AUG-2010 20:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:28 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061444

PTL06 0163

Digitally signed by Sara E. Johnson
on 08/24/2010 at 21:28.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s59.d
Injection date and time: 24-AUG-2010 20:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:28 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061444

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
25)*t-Butyl Alcohol-d10	(4)	2.761	65	150301	250.000
50)$Dibromofluoromethane	(1)	4.382	113	282601	49.471
59)$1,2-Dichloroethane-d4	(1)	4.705	102	77498	51.094
69)*Fluorobenzene	(1)	5.041	96	1277543	50.000
90)$Toluene-d8	(2)	6.681	98	1247248	50.226
103)*Chlorobenzene-d5	(2)	8.126	117	897984	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	442728	50.254
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	491497	50.000

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

PTL86 8164

Digitally signed by Sara E. Johnson
on 08/24/2010 at 21:28.
Target 3.5 esignature user ID: sej02002

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061445

Data file: /chem/HP15648.i/10aug24b.b/eg24s60.d
Data file Sample Info. Line: XXXXX;6061445;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 21:29 sej02002

Injection date and time: **24-AUG-2010 20:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.012)	290	65	147116 (-25)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1297075 (3)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	917624 (4)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	500167 (3)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.383(0.000)	113	289307	49.883	100%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.706(0.000)	102	76174	49.465	99%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1281900	50.517	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	449642	49.947	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
15) 1,1-Dichloroethene	(1)	2.316(0.001)	96	149062	20.285	20.29			0.8
16) Acetone	(1)			Not Detected					6
24) Methylene Chloride	(1)			Not Detected					2
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
33) 1,1-Dichloroethane	(1)			Not Detected					1
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
45) Bromochloromethane	(1)			Not Detected					1
47) Chloroform	(1)	4.224(0.000)	83	9909	0.817	0.82			0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
81) Bromodichloromethane	(1)			Not Detected					1
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
100) Dibromochloromethane	(2)			Not Detected					1

PTL86 0165

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XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061445

Data file: /chem/HP15648.i/10aug24b.b/eg24s60.d
Data file Sample Info. Line: XXXXX;6061445;1;0;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 21:29 sej02002

Injection date and time: **24-AUG-2010 20:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1
132) sec-Butylbenzene	(3)			Not Detected					1
134) p-Isopropyltoluene	(3)			Not Detected					1
133) 1,3-Dichlorobenzene	(3)			Not Detected					1
136) 1,4-Dichlorobenzene	(3)			Not Detected					1
141) n-Butylbenzene	(3)			Not Detected					1
142) 1,2-Dichlorobenzene	(3)			Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)			Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)			Not Detected					1
147) Hexachlorobutadiene	(3)			Not Detected					2
148) Naphthalene	(3)			Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)			Not Detected					1

Total number of targets = 63

Comments:

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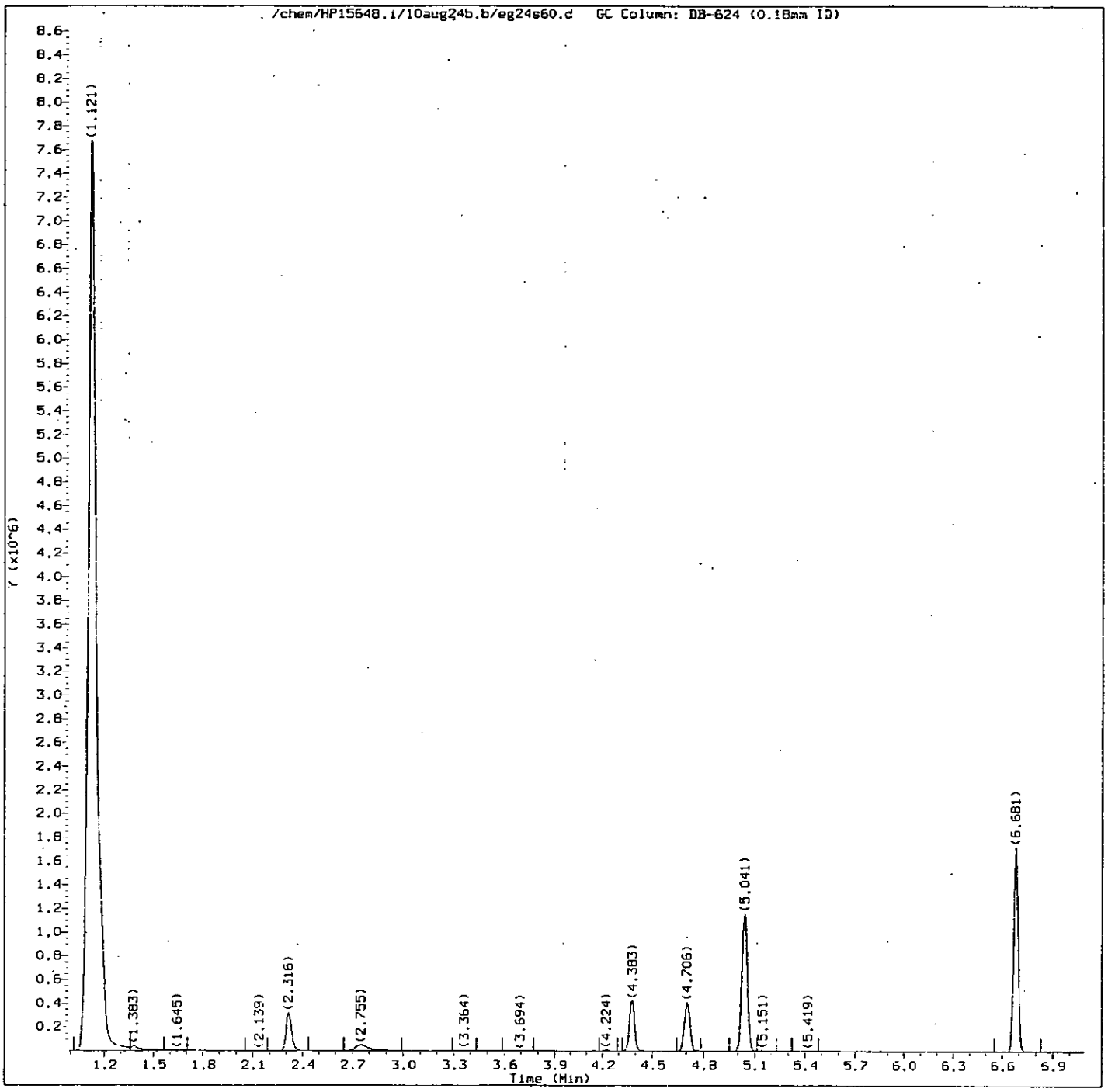
PTL86 0166

Auditor: Date: 8/25/16



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s60.d
Injection date and time: 24-AUG-2010 20:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

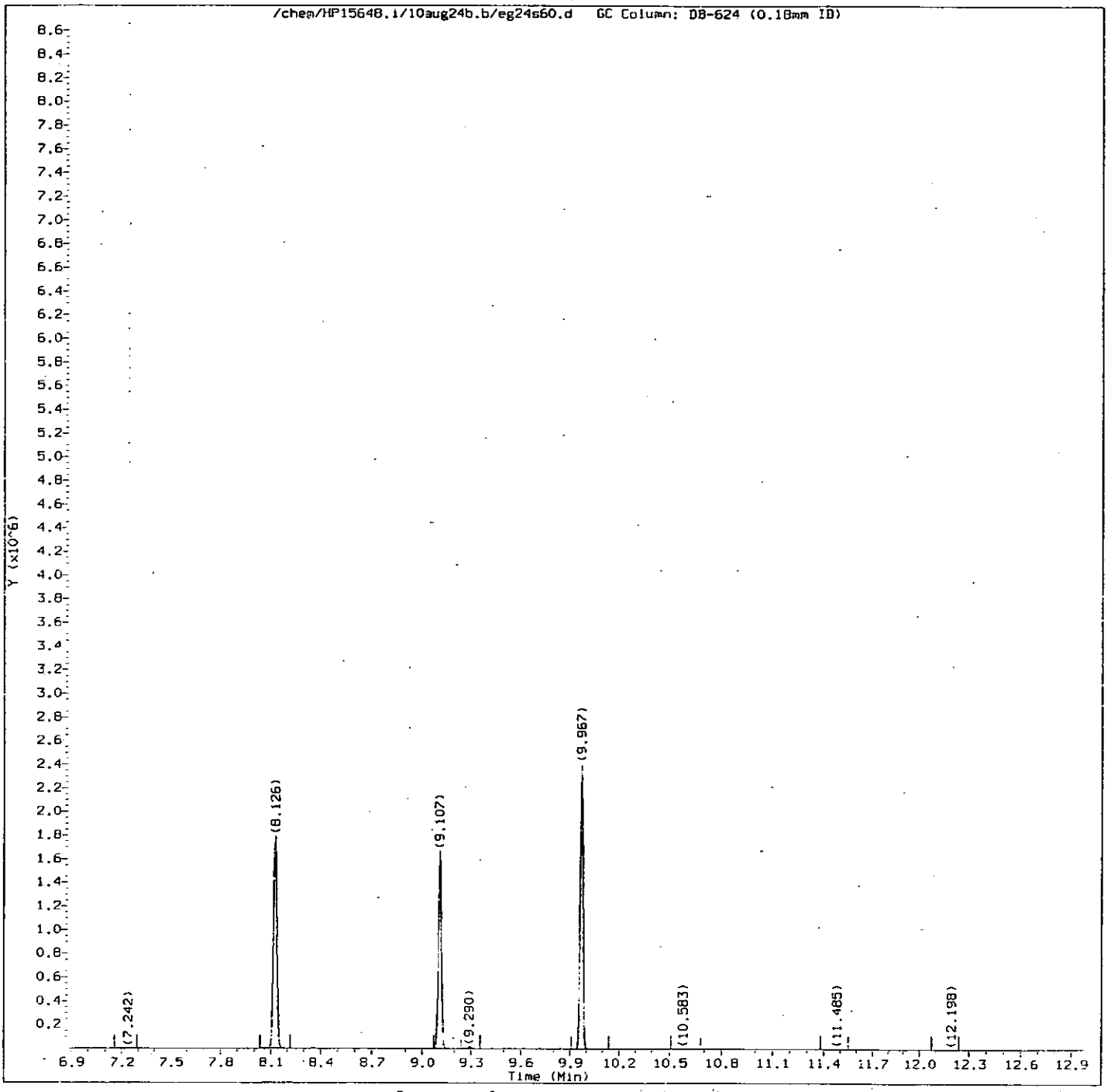
Date, time and analyst ID of latest file update: 24-Aug-2010 21:29 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061445

PTL86 8167

Digitally signed by Sara E. Johnson
on 08/24/2010 at 21:29.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s60.d
Injection date and time: 24-AUG-2010 20:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:29 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061445

PTL86 0168

Digitally signed by Sara E. Johnson
on 08/24/2010 at 21:29.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s60.d
Injection date and time: 24-AUG-2010 20:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:29 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061445

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
15) 1,1-Dichloroethene	(1)	2.316	96	149062	20.285
25)*t-Butyl Alcohol-d10	(4)	2.755	65	147116	250.000
47) Chloroform	(1)	4.224	83	9909	0.817
50)$Dibromofluoromethane	(1)	4.383	113	289307	49.883
59)$1,2-Dichloroethane-d4	(1)	4.706	102	76174	49.465
69)*Fluorobenzene	(1)	5.041	96	1297075	50.000
90)$Toluene-d8	(2)	6.681	98	1281900	50.517
103)*Chlorobenzene-d5	(2)	8.126	117	917624	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	449642	49.947
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	500167	50.000

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

PTL86 8169

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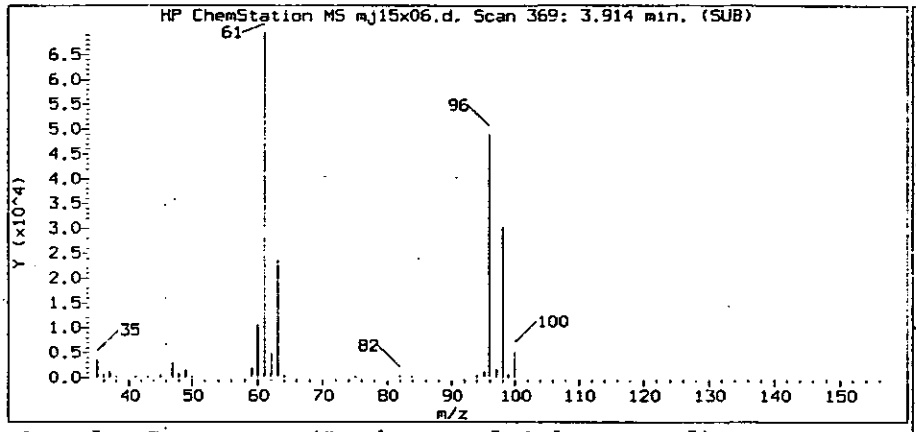
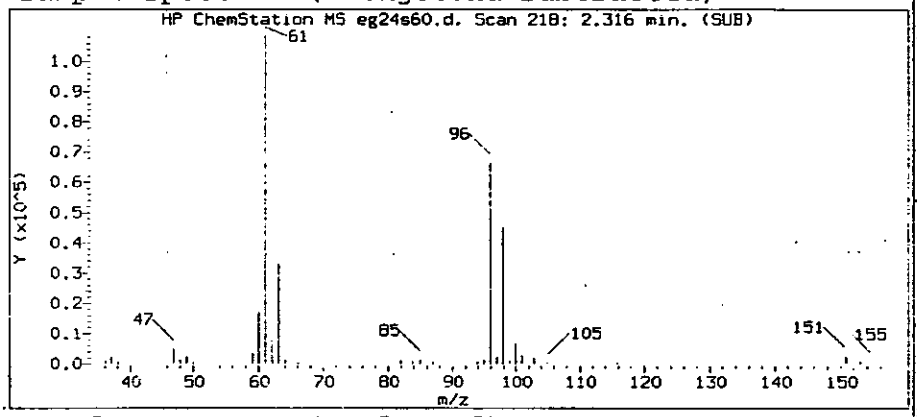
on 08/24/2010 at 21:29.
Target 3.5 esignature user ID: sej02002

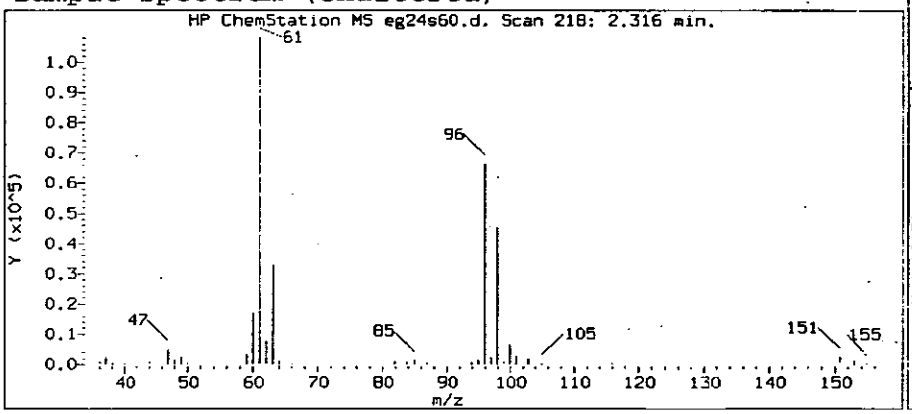
Reference Standard Spectrum for 1,1-Dichloroethene

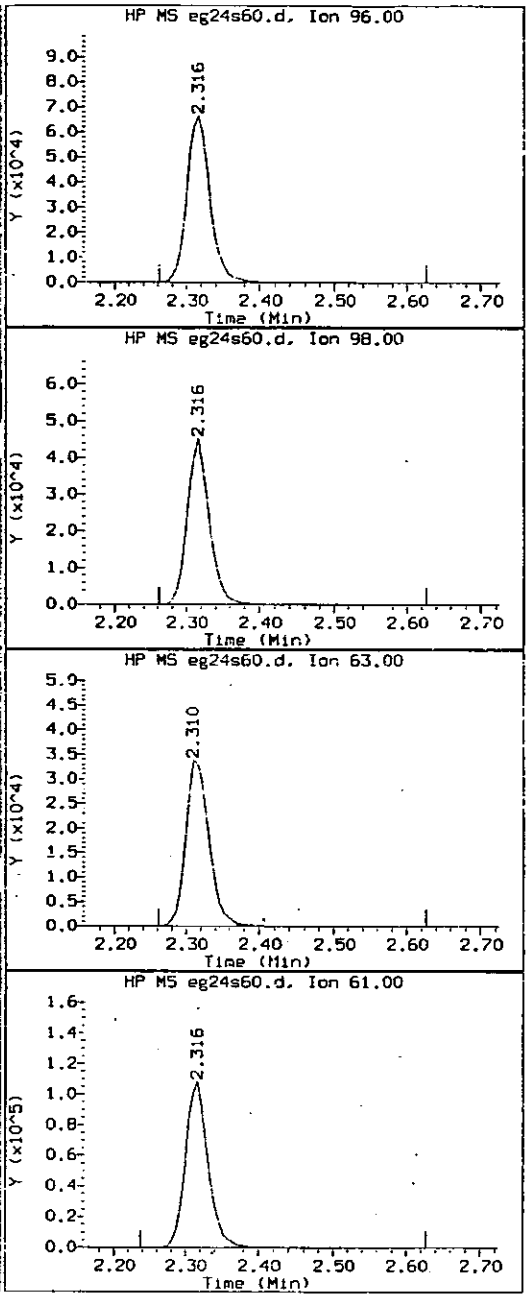


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s60.d
Injection date and time: 24-AUG-2010 20:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:29 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061445

Compound Number	: 15
Compound Name	: 1,1-Dichloroethene
Scan Number	: 218
Retention Time (minutes)	: 2.316
Relative Retention Time	: 0.001
Quant Ion	: 96.00
Area (flag)	: 149062
On-Column Amount (ng)	: 20.2851

PTL86 8178

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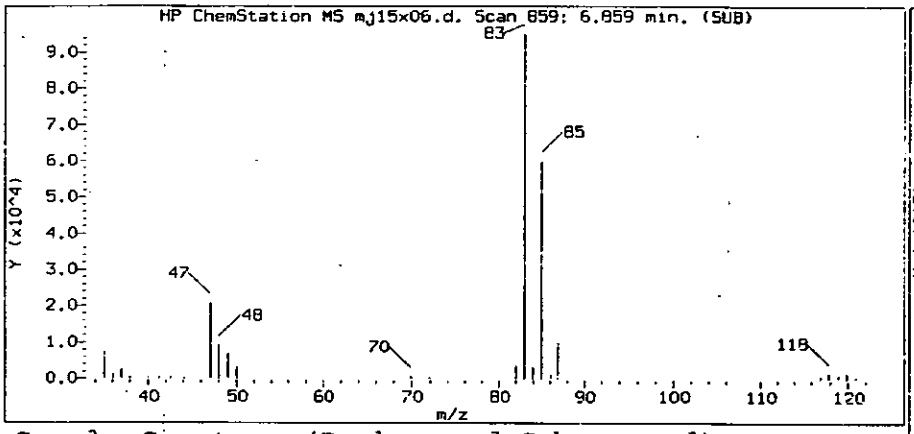
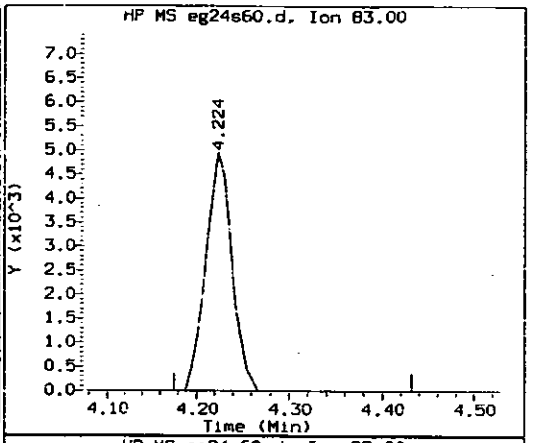
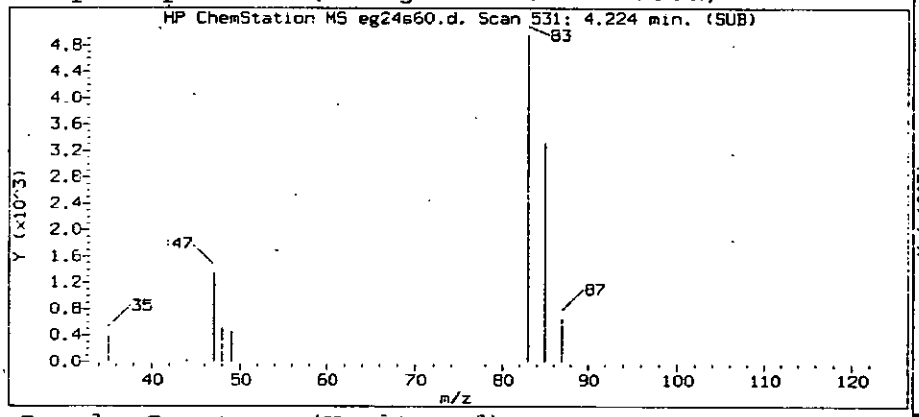
Target 3.5 esignature user ID: sej02002

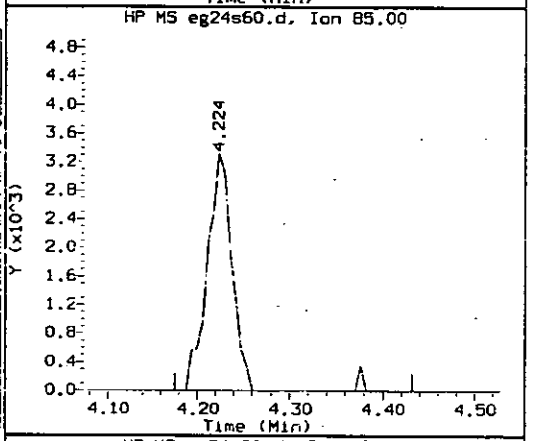
Reference Standard Spectrum for Chloroform



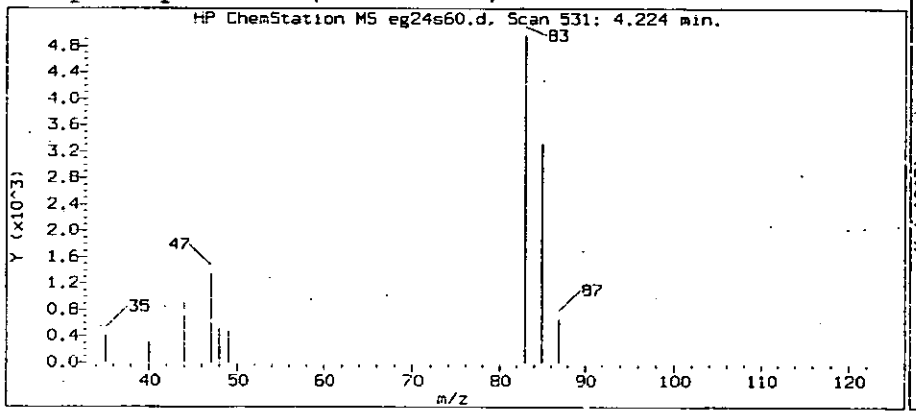


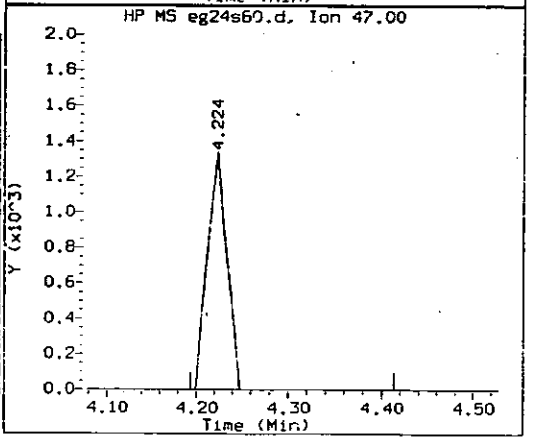
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP15648.i/10aug24b.b/eg24s60.d
Injection date and time: 24-AUG-2010 20:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 21:29 sej02002

Sample Name: XXXXX

Lab Sample ID: 6061445

Compound Number	: 47
Compound Name	: Chloroform
Scan Number	: 531
Retention Time (minutes)	: 4.224
Relative Retention Time	: 0.000
Quant Ion	: 83.00
Area (flag)	: 9909
On-Column Amount (ng)	: 0.8174

PTL86 8171

Digitally signed by Sara E. Johnson on 08/24/2010 at 21:29.
Target 3.5 esignature user ID: sej02002

Standards Data

PTL06 0172

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP15648 Calibration Date(s): 08/19/10 08/19/10

Heated Purge: (Y/N) Y Calibration Times: 14:47 16:27

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

LAB FILE ID: RRF 4 = eg19i07.d RRF 10= eg19i06.d RRF 20= eg19i05.d
RRF 50= eg19i04.d RRF100= eg19i03.d RRF300= eg19i02.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Dichlorodifluoromethane	0.4646	0.4398	0.4604	0.4146	0.4229	0.4354		0.4396	5	AVG	
Chloromethane	#0.4752	0.4512	0.4592	0.4269	0.4307	0.4471		0.4484	4	AVG	#
1,3-Butadiene	0.3016	0.2970	0.2613	0.2687	0.2741	0.2914		0.2824	6	AVG	
Vinyl Chloride	*0.4514	0.4348	0.4469	0.4125	0.4186	0.4366		0.4335	4	AVG	*
Bromomethane	0.2955	0.2831	0.2807	0.2612	0.2589	0.2676		0.2745	5	AVG	
Chloroethane	0.2693	0.2553	0.2634	0.2444	0.2463	0.2584		0.2562	4	AVG	
Dichlorofluoromethane	0.5625	0.5769	0.5517	0.5521	0.5318	0.5819		0.5595	3	AVG	
Trichlorofluoromethane	0.4975	0.4619	0.4967	0.4563	0.4602	0.4756		0.4747	4	AVG	
n-Pentane	0.4991	0.5280	0.5266	0.5083	0.5104	0.5597		0.5220	4	AVG	
Ethyl Ether	0.2363	0.2558	0.2453	0.2454	0.2431	0.2568		0.2438	3	AVG	
Freon 123a	0.3472	0.3615	0.3519	0.3508	0.3351	0.3658		0.3520	3	AVG	
Acrolein	2.8361	2.7038	2.7502	2.7423	2.9052	2.9159		2.8089	3	AVG	
1,1-Dichloroethene	*0.2799	0.2823	0.2830	0.2788	0.2742	0.3014		0.2833	3	AVG	*
Freon 113	0.2765	0.2704	0.2898	0.2874	0.2824	0.3041		0.2851	4	AVG	
Acetone	0.0880	0.0886	0.0846	0.0869	0.0803	0.1120		0.0900	12	AVG	
Methyl Iodide	0.4581	0.4624	0.4706	0.4648	0.4553	0.4903		0.4669	3	AVG	
Carbon Disulfide	0.7733	0.7752	0.7884	0.7710	0.7601	0.8245		0.7821	3	AVG	
Allyl Chloride	0.4524	0.4459	0.4553	0.4545	0.4419	0.4862		0.4560	3	AVG	
Methyl Acetate	0.2351	0.2211	0.2273	0.2378	0.2140	0.3058		0.2402	14	AVG	
Methylene Chloride	0.3232	0.3001	0.2976	0.2841	0.2767	0.2958		0.2962	5	AVG	
t-Butyl Alcohol	1.1639	1.2049	1.1822	1.1649	1.2187	1.2563		1.1985	3	AVG	
Acrylonitrile	0.1239	0.1291	0.1245	0.1365	0.1240	0.1715		0.1349	14	AVG	
trans-1,2-Dichloroethene	0.2886	0.2872	0.2953	0.2941	0.2891	0.3148		0.2948	3	AVG	
Methyl Tertiary Butyl Ether	0.7888	0.7912	0.8203	0.8175	0.8016	0.8644		0.8140	3	AVG	
n-Hexane	0.4375	0.4394	0.4613	0.4555	0.4653	0.4886		0.4579	4	AVG	
1,2-Dichloroethene (total)	0.2965	0.2964	0.3039	0.3020	0.2981	0.3217		0.3031	3	AVG	
1,1-Dichloroethane	#0.5136	0.5174	0.5306	0.5277	0.5164	0.5604		0.5277	3	AVG	#
di-Isopropyl Ether	0.8419	0.8659	0.8938	0.8954	0.8840	0.9531		0.8890	4	AVG	
2-Chloro-1,3-Butadiene	0.3912	0.3955	0.4128	0.4097	0.4052	0.4489		0.4105	5	AVG	
Ethyl t-Butyl Ether	0.8045	0.8109	0.8399	0.8388	0.8230	0.8622		0.8299	3	AVG	
cis-1,2-Dichloroethene	0.3045	0.3055	0.3125	0.3099	0.3070	0.3286		0.3113	3	AVG	
2-Butanone	0.1532	0.1486	0.1477	0.1600	0.1461	N/A		0.1511	4	AVG	
2,2-Dichloropropane	0.3824	0.3810	0.4055	0.3987	0.3862	0.4073		0.3935	3	AVG	
Propionitrile	1.8037	1.8782	1.8607	1.9469	2.0500	2.3085		1.9747	9	AVG	
Methacrylonitrile	0.1226	0.1330	0.1320	0.1456	0.1379	0.1863		0.1429	16	2NDDEG	
Bromochloromethane	0.1546	0.1442	0.1466	0.1469	0.1436	0.1514		0.1479	3	AVG	
Tetrahydrofuran	1.7157	1.7808	1.8093	1.7891	1.8975	2.0047		1.8328	6	AVG	
Chloroform	*0.4483	0.4598	0.4763	0.4649	0.4589	0.4958		0.4673	4	AVG	*
1,1,1-Trichloroethane	0.5019	0.4406	0.4543	0.4309	0.4229	0.4503		0.4501	6	AVG	
Cyclohexane	0.5154	0.5315	0.5645	0.5524	0.5527	0.5992		0.5526	5	AVG	
1,1-Dichloropropene	0.4133	0.4135	0.4211	0.4258	0.4193	0.4591		0.4254	4	AVG	
Carbon Tetrachloride	0.3033	0.3133	0.3316	0.3312	0.3275	0.3533		0.3267	5	AVG	
Isobutyl Alcohol	0.3648	0.3924	0.3905	0.3963	0.4103	0.4779		0.4054	9	AVG	
Benzene	1.2006	1.1850	1.2148	1.2145	1.1875	1.2968		1.2165	3	AVG	
1,2-Dichloroethane	0.3406	0.3483	0.3450	0.3453	0.3386	0.3712		0.3482	3	AVG	
t-Amyl Methyl Ether	0.7602	0.7816	0.8191	0.8083	0.8056	0.8574		0.8054	4	AVG	
n-Heptane	0.4356	0.4220	0.4527	0.4608	0.4748	0.4875		0.4556	5	AVG	
n-Butanol	0.3049	0.3305	0.3418	0.3580	0.3783	0.4370		0.3584	13	AVG	
Trichloroethene	0.3069	0.3023	0.3137	0.3137	0.3037	0.3362		0.3128	4	AVG	
1,2-Dichloropropane	*0.2946	0.3017	0.3061	0.3066	0.3044	0.3327		0.3077	4	AVG	*
Methylcyclohexane	0.5373	0.5484	0.5837	0.5874	0.5803	0.6387		0.5793	6	AVG	
Methyl Methacrylate	0.2264	0.2341	0.2486	0.2602	0.2520	0.3270		0.2580	14	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL06 0173

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: HP15648 Calibration Date(s): 08/19/10 08/19/10

Heated Purge: (Y/N) Y Calibration Times: 14:47 16:27

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

LAB FILE ID: RRF 4 = eg19i07.d RRF 10= eg19i06.d RRF 20= eg19i05.d
RRF 50= eg19i04.d RRF100= eg19i03.d RRF300= eg19i02.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Dibromomethane	0.1695	0.1688	0.1757	0.1738	0.1732	0.1906		0.1752	5	AVG	
1,4-Dioxane	0.1011	0.1044	0.1179	0.1261	0.1232	0.1234		0.1160	9	AVG	
Bromodichloromethane	0.3120	0.3130	0.3298	0.3312	0.3314	0.3593		0.3295	5	AVG	
2-Nitropropane	0.0568	0.0559	0.0543	0.0625	0.0605	0.0900		0.0633	21	2NDDEG	
2-Chloroethyl Vinyl Ether	0.1859	0.1977	0.2029	0.2124	0.2113	0.2514		0.2103	11	AVG	
cis-1,3-Dichloropropene	0.4094	0.4201	0.4380	0.4398	0.4388	0.4757		0.4370	5	AVG	
4-Methyl-2-Pentanone	0.3042	0.3148	0.3080	0.3369	0.3197	0.4292		0.3355	14	AVG	
Toluene	*1.0711	1.0668	1.0856	1.0929	1.0737	1.1880		1.0963	4	AVG	*
trans-1,3-Dichloropropene	0.5056	0.5290	0.5579	0.5709	0.5733	0.6267		0.5606	7	AVG	
Ethyl Methacrylate	0.4048	0.4247	0.4406	0.4779	0.4737	0.5602		0.4637	12	AVG	
1,1,2-Trichloroethane	0.3439	0.3400	0.3514	0.3554	0.3479	0.3855		0.3540	5	AVG	
Tetrachloroethene	0.4995	0.4937	0.5124	0.5142	0.4969	0.5419		0.5097	3	AVG	
1,3-Dichloropropane	0.5820	0.6085	0.6194	0.6292	0.6167	0.6894		0.6252	5	AVG	
2-Hexanone	0.2912	0.3051	0.3032	0.3323	0.3130	0.4398		0.3308	17	2NDDEG	
Dibromochloromethane	0.3081	0.3211	0.3365	0.3564	0.3544	0.3947		0.3452	9	AVG	
1,2-Dibromoethane	0.3326	0.3427	0.3532	0.3656	0.3576	0.4084		0.3600	7	AVG	
Chlorobenzene	#1.1447	1.1403	1.1792	1.1837	1.1756	1.2973		1.1868	5	AVG	#
1,1,1,2-Tetrachloroethane	0.3284	0.3338	0.3439	0.3594	0.3591	0.3962		0.3535	7	AVG	
Ethylbenzene	*1.9993	2.0245	2.0781	2.1008	2.0893	2.3120		2.1007	5	AVG	*
m+p-Xylene	0.7739	0.7905	0.8129	0.8256	0.8211	0.9283		0.8254	7	AVG	
Xylene (Total)	0.7655	0.7807	0.8073	0.8162	0.8118	0.9176		0.8165	7	AVG	
o-Xylene	0.7487	0.7613	0.7961	0.7975	0.7933	0.8962		0.7988	6	AVG	
Styrene	1.1178	1.1639	1.2428	1.2757	1.2936	1.4743		1.2613	10	AVG	
Bromoform	#0.2146	0.2223	0.2376	0.2612	0.2647	0.3181		0.2531	15	AVG	#
Isopropylbenzene	1.9799	2.0098	2.0628	2.1125	2.1148	2.3363		2.1027	6	AVG	
Cyclohexanone	0.3494	0.3651	0.3774	0.4199	0.4175	0.4331		0.3937	9	AVG	
1,1,2,2-Tetrachloroethane	#0.8987	0.9150	0.9241	0.9789	0.9371	1.1276		0.9636	9	AVG	#
trans-1,4-Dichloro-2-Butene	0.2478	0.2694	0.2687	0.2965	0.2858	0.3645		0.2888	14	AVG	
Bromobenzene	0.8450	0.8671	0.8966	0.8946	0.8770	0.9296		0.8850	3	AVG	
1,2,3-Trichloropropane	0.2617	0.2779	0.2649	0.2926	0.2726	0.3357		0.2842	10	AVG	
n-Propylbenzene	4.3663	4.4996	4.5805	4.6845	4.6108	4.4689		4.5351	2	AVG	
2-Chlorotoluene	0.8685	0.8910	0.9043	0.9087	0.9015	0.9520		0.9043	3	AVG	
1,3,5-Trimethylbenzene	2.8189	2.9921	3.0665	3.1630	3.1494	3.3941		3.0973	6	AVG	
4-Chlorotoluene	0.8562	0.8984	0.9118	0.9283	0.9143	0.9896		0.9164	5	AVG	
tert-Butylbenzene	0.7409	0.7457	0.7672	0.7660	0.7691	0.8343		0.7705	4	AVG	
Pentachloroethane	0.4049	0.4382	0.4459	0.4618	0.4773	0.5388		0.4611	10	AVG	
1,2,4-Trimethylbenzene	2.9444	3.0922	3.2159	3.2717	3.2479	3.4941		3.2111	6	AVG	
sec-Butylbenzene	3.7868	3.9463	4.0863	4.2368	4.2426	4.1189		4.0696	4	AVG	
p-Isopropyltoluene	3.2301	3.4028	3.5030	3.6361	3.6602	3.7972		3.5382	6	AVG	
1,3-Dichlorobenzene	1.6335	1.6723	1.6997	1.7288	1.7027	1.8453		1.7137	4	AVG	
1,4-Dichlorobenzene	1.6754	1.6839	1.7288	1.7312	1.7310	1.8514		1.7336	4	AVG	
1,2,3-Trimethylbenzene	2.9569	3.0391	3.1156	3.2295	3.1478	3.3816		3.1451	5	AVG	
Benzyl Chloride	1.3720	1.4665	1.5480	1.6996	1.6931	2.1169		1.6493	16	2NDDEG	
1,3-Diethylbenzene	1.8328	1.9362	2.0060	2.0989	2.0805	2.2905		2.0408	8	AVG	
1,4-Diethylbenzene	1.7575	1.7813	1.8395	1.9467	1.9161	2.1456		1.8978	7	AVG	
n-Butylbenzene	1.6215	1.6884	1.7271	1.7866	1.8172	1.9830		1.7706	7	AVG	
1,2-Dichlorobenzene	1.5757	1.5672	1.6458	1.6330	1.6316	1.7628		1.6393	4	AVG	
1,2-Diethylbenzene	1.7405	1.8292	1.8734	1.9446	1.9221	2.1059		1.9026	6	AVG	
1,2-Dibromo-3-Chloropropane	0.1430	0.1618	0.1670	0.1918	0.1807	0.2493		0.1823	20	2NDDEG	
1,2,4-Trichlorobenzene	1.1250	1.1385	1.1802	1.2133	1.2194	1.2844		1.1934	5	AVG	
Hexachlorobutadiene	0.5273	0.5253	0.5414	0.5683	0.5826	0.5875		0.5554	5	AVG	
Naphthalene	3.0826	3.2279	3.3385	3.6116	3.4598	3.9237		3.4407	9	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL86 0174

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: HP15648 Calibration Date(s): 08/19/10 08/19/10

Heated Purge: (Y/N) Y Calibration Times: 14:47 16:27

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

LAB FILE ID: RRF 4 = eg19i07.d RRF 10= eg19i06.d RRF 20= eg19i05.d
RRF 50= eg19i04.d RRF100= eg19i03.d RRF300= eg19i02.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
1,2,3-Trichlorobenzene	1.0203	1.0857	1.1014	1.1299	1.1334	1.1739		1.1074	5	AVG
2-Methylnaphthalene	1.4138	1.6258	1.7546	1.9924	1.9972	2.1231		1.8178	15	AVG
Dibromofluoromethane	0.2251	0.2254	0.2267	0.2233	0.2220	0.2189		0.2236	1	AVG
Dibromofluoromethane(mz111)	0.2307	0.2289	0.2295	0.2287	0.2293	0.2298		0.2295	0	AVG
1,2-Dichloroethane-d4	0.0595	0.0605	0.0603	0.0592	0.0587	0.0580		0.0594	2	AVG
1,2-Dichloroethane-d4(mz104)	0.0387	0.0378	0.0382	0.0376	0.0388	0.0382		0.0382	1	AVG
Toluene-d8(mz100)	0.8917	0.8886	0.8917	0.8981	0.8970	0.8986		0.8943	0	AVG
4-Bromofluorobenzene(mz174)	0.4225	0.4157	0.4197	0.4244	0.4215	0.4263		0.4217	1	AVG
Toluene-d8	1.3819	1.3755	1.3873	1.3836	1.3866	1.3812		1.3827	0	AVG
4-Bromofluorobenzene	0.4864	0.4863	0.4922	0.4855	0.4863	0.5064		0.4905	2	AVG

Average %RSD 6

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL86 0175

FORM VI VOA

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP15648.i/10aug19a.b/eg19i02.d VSTD300
/chem/HP15648.i/10aug19a.b/eg19i03.d VSTD100
/chem/HP15648.i/10aug19a.b/eg19i04.d VSTD050
/chem/HP15648.i/10aug19a.b/eg19i05.d VSTD020
/chem/HP15648.i/10aug19a.b/eg19i06.d VSTD010
/chem/HP15648.i/10aug19a.b/eg19i07.d VSTD004

Area Summary

File ID:

Internal Standard Name	eg19i02.d	eg19i03.d	eg19i04.d	eg19i05.d	eg19i06.d	eg19i07.d	Avg. Area	%RSD	In Spec
t-Butyl Alcohol-d10	164407	128380	147036	137904	143828	137515	143178	9	Yes
Fluorobenzene	1070246	1128073	1118204	1149209	1175092	1172241	1135511	3	Yes
Chlorobenzene-d5	767008	809938	801714	832032	848292	838778	816294	4	Yes
1,4-Dichlorobenzene-d4	442839	443346	435125	450498	453840	454754	446734	2	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

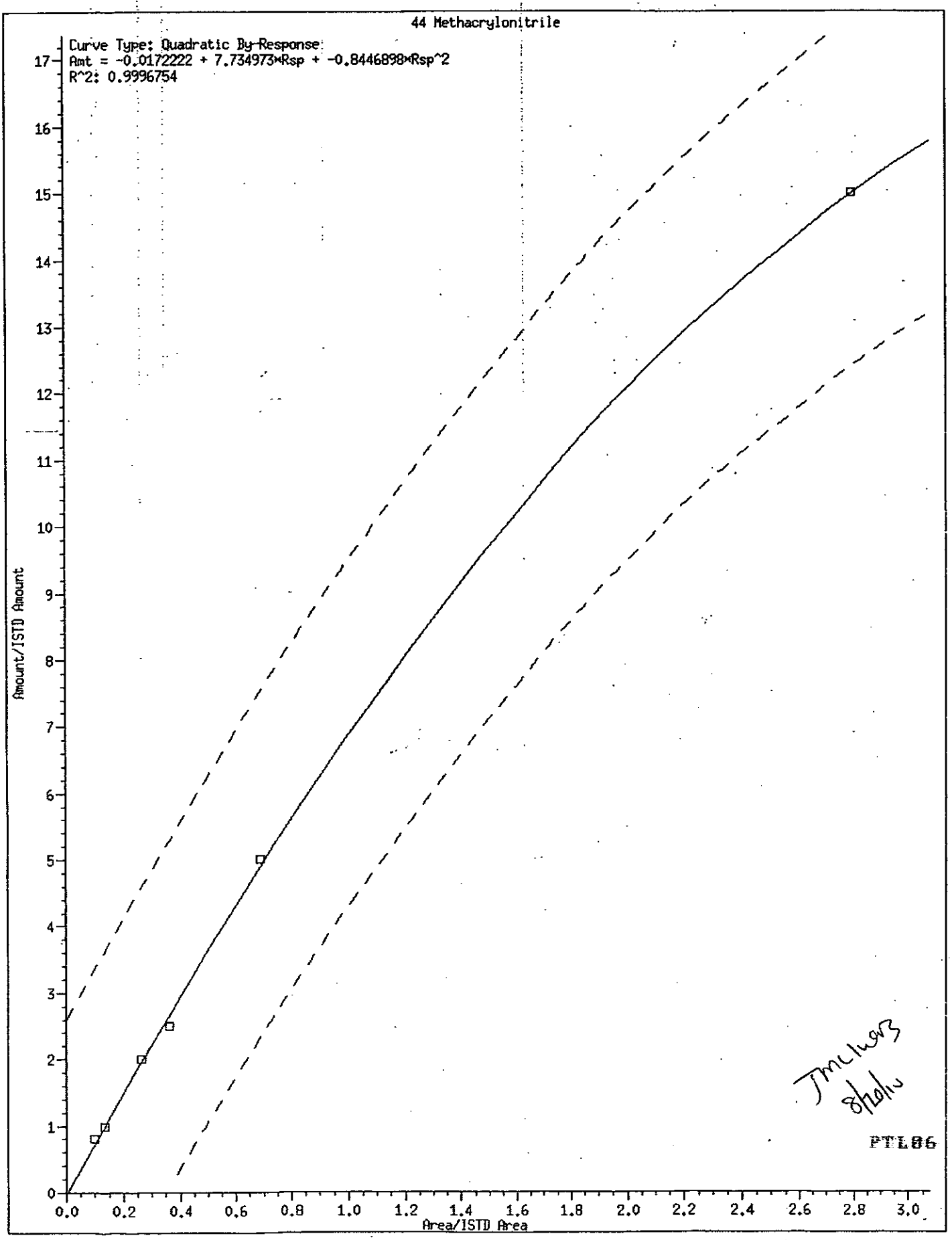
RT Summary

File ID:

Internal Standard Name	eg19i02.d	eg19i03.d	eg19i04.d	eg19i05.d	eg19i06.d	eg19i07.d	Avg. RT
t-Butyl Alcohol-d10	2.749	2.761	2.755	2.761	2.761	2.755	2.757
Fluorobenzene	5.047	5.047	5.047	5.047	5.047	5.047	5.047
Chlorobenzene-d5	8.126	8.126	8.126	8.126	8.126	8.126	8.126
1,4-Dichlorobenzene-d4	9.973	9.973	9.973	9.973	9.967	9.967	9.971

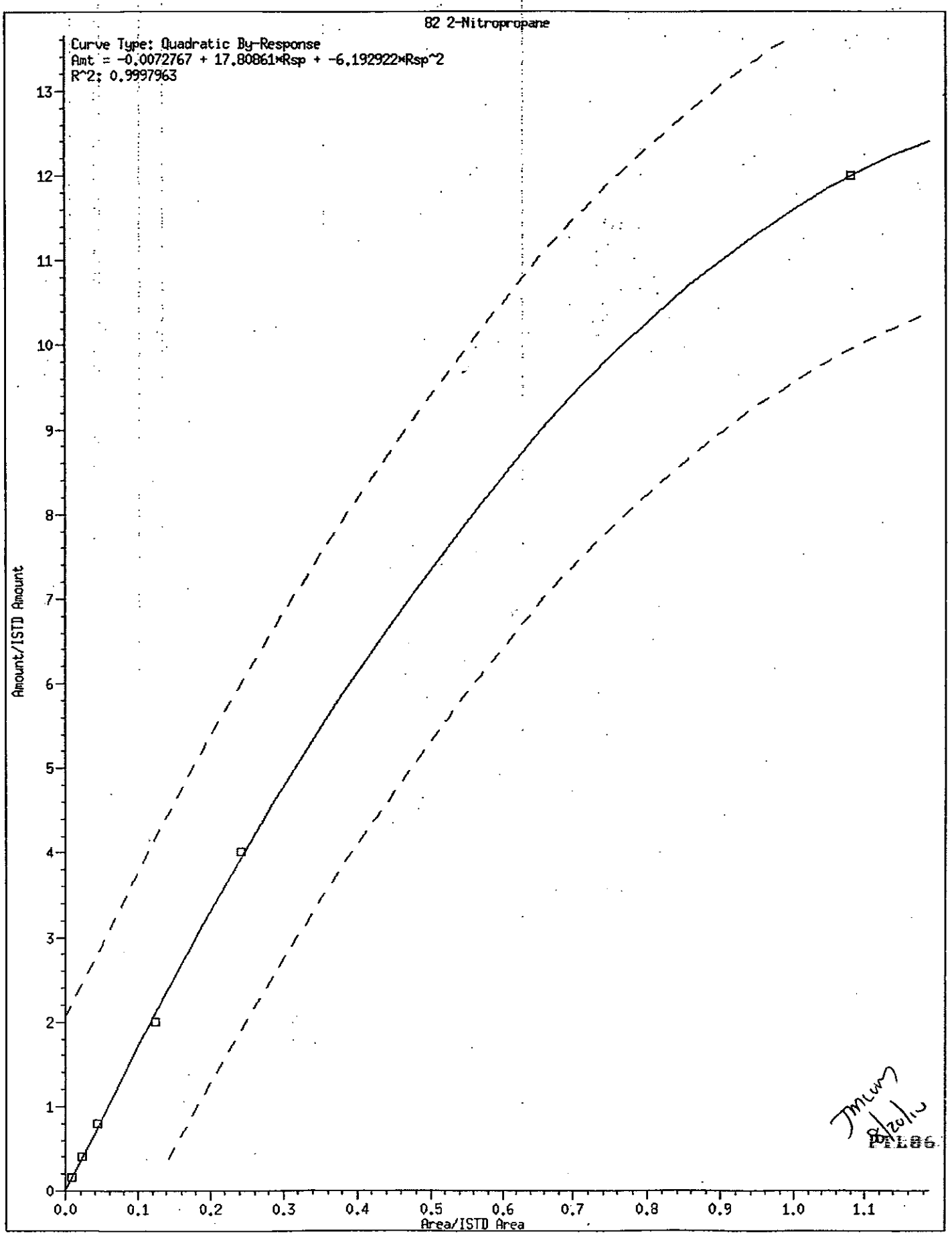
* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 08/20/2010 at 08:26.



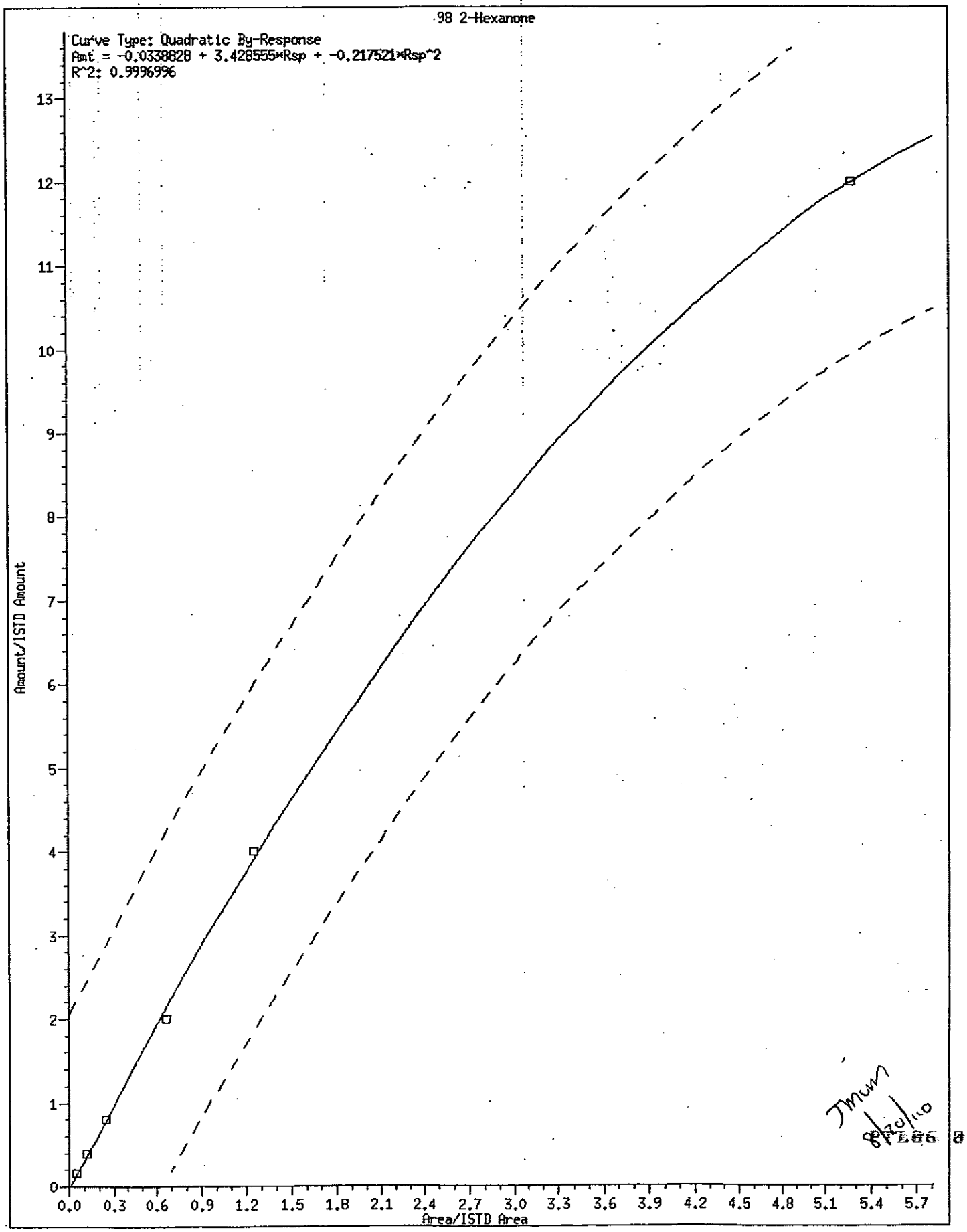
JMC 1/03
8/20/10

PTL86 8177



JMLW 8/20/10

PTL86 0178


98 2-Hexanone
Curve Type: Quadratic By-Response
Amt = -0.0338828 + 3.428555*Rsp + -0.217521*Rsp^2
R^2: 0.9996996
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
13
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
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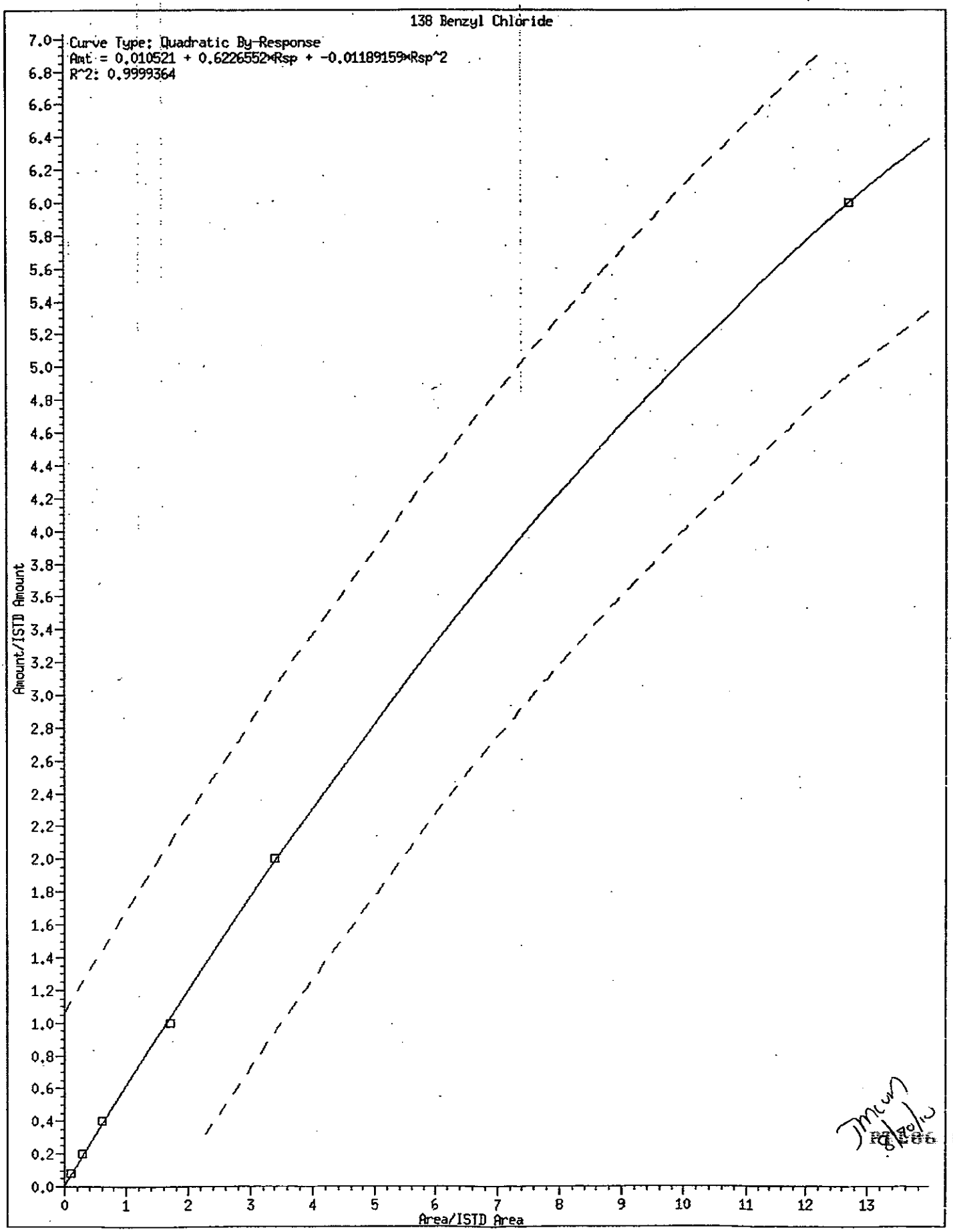
3.9
4.2
4.5
4.8
5.1
5.4
5.7

JMum
8/20/10


138 Benzyl Chloride
Curve Type: Quadratic By-Response
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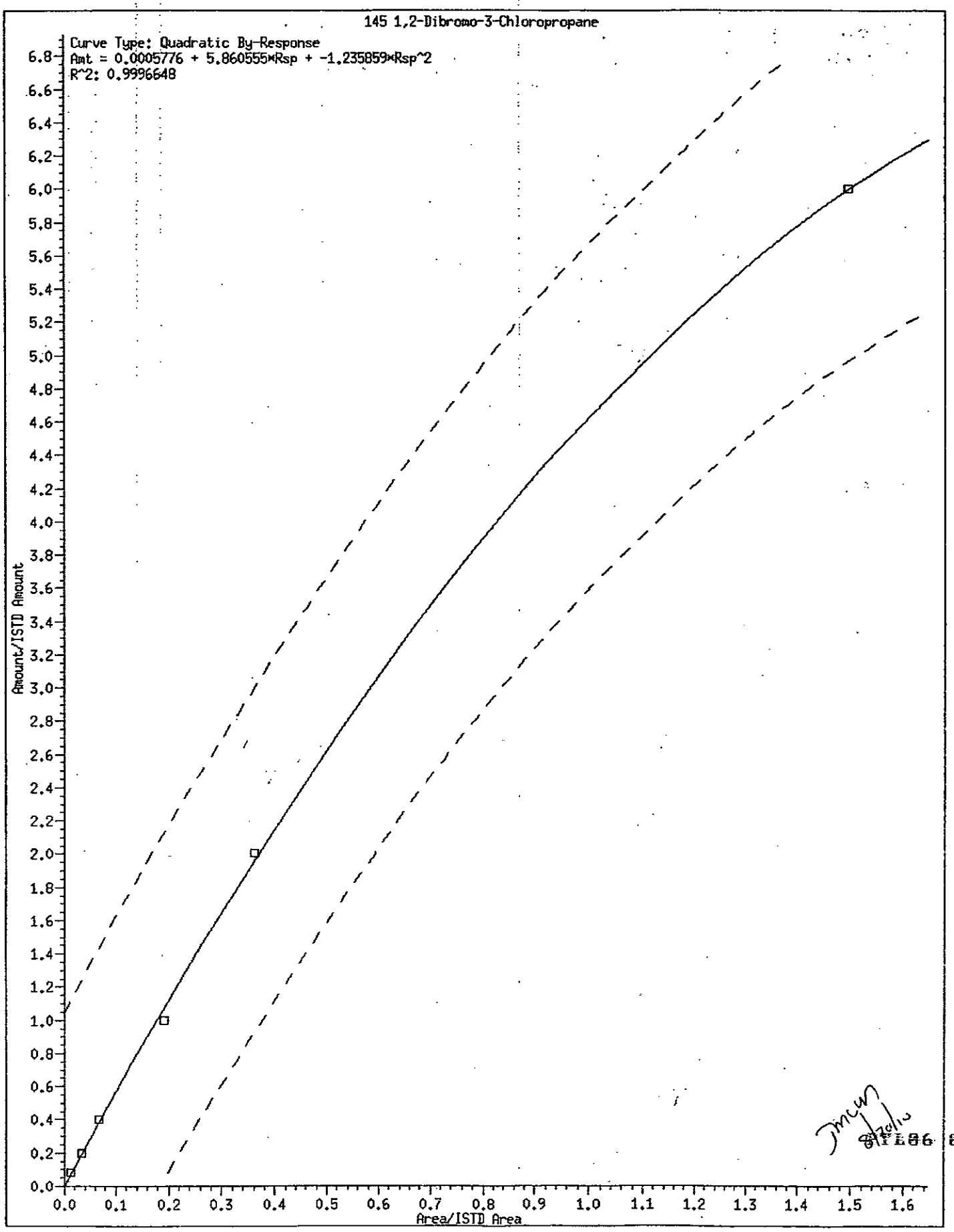
R^2: 0.9999364
Amount/ISTD Amount
Area/ISTD Area



JMCW 8/20/10

8TL86 8181

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract: _____

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

Instrument ID: HP15648 ICV Date: 08/19/10 Time: 17:07

Lab File ID: eg19cv1.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4396	0.3431	15.61	20	-22	
#	Chloromethane	0.4484	0.3854	17.19	20	-14	#
	1,3-Butadiene	0.2824	0.2460	17.43	20	-13	
*	Vinyl Chloride	0.4335	0.3782	17.45	20	-13	*
	Bromomethane	0.2745	0.2386	17.38	20	-13	
	Chloroethane	0.2562	0.2270	17.72	20	-11	
	Dichlorofluoromethane	0.5595	0.5374	19.21	20	-4	
	Trichlorofluoromethane	0.4747	0.4042	17.03	20	-15	
	n-Pentane	0.5220	0.4900	18.78	20	-6	
	Ethyl Ether	0.2438	0.1965	16.12	20	-19	
	Freon 123a	0.3520	0.3551	20.17	20	1	
	Acrolein	2.8089	2.4194	129.20	150	-14	
*	1,1-Dichloroethene	0.2833	0.2691	19.00	20	-5	*
	Freon 113	0.2851	0.2658	18.64	20	-7	
	Acetone	0.0900	0.0700	116.67	150	-22	
	Methyl Iodide	0.4669	0.4453	19.08	20	-5	
	Carbon Disulfide	0.7821	0.7343	18.78	20	-6	
	Allyl Chloride	0.4560	0.4150	18.20	20	-9	
	Methyl Acetate	0.2402	0.2138	17.80	20	-11	
	Methylene Chloride	0.2962	0.2753	18.59	20	-7	
	t-Butyl Alcohol	1.1985	1.0785	179.97	200	-10	
	Acrylonitrile	0.1349	0.1063	78.78	100	-21	
	trans-1,2-Dichloroethene	0.2948	0.2733	18.54	20	-7	
	Methyl Tertiary Butyl Ether	0.8140	0.7355	18.07	20	-10	
	n-Hexane	0.4579	0.4129	18.03	20	-10	
	1,2-Dichloroethene (total)	0.3031	0.2776	36.65	40	-8	
#	1,1-Dichloroethane	0.5277	0.4954	18.78	20	-6	#
	di-Isopropyl Ether	0.8890	0.8062	18.14	20	-9	
	2-Chloro-1,3-Butadiene	0.4105	0.4277	20.84	20	4	
	Ethyl t-Butyl Ether	0.8299	0.7479	18.02	20	-10	
	cis-1,2-Dichloroethene	0.3113	0.2820	18.12	20	-9	
	2-Butanone	0.1511	0.1073	106.54	150	-29	
	2,2-Dichloropropane	0.3935	0.3602	18.31	20	-8	
	Propionitrile	1.9747	1.8467	140.28	150	-6	
	Methacrylonitrile	0.1429	0.1237	136.83	150	-9	
	Bromochloromethane	0.1479	0.1322	17.88	20	-11	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane) PTL86 0182
Maximum %Drift for CCC(*)=20%

 FORM VII VOA

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP15648 ICV Date: 08/19/10 Time: 17:07

Lab File ID: eg19cv1.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	___ RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Tetrahydrofuran	1.8328	1.6542	90.25	100	-10	
*	Chloroform	0.4673	0.4318	18.48	20	-8	*
	1,1,1-Trichloroethane	0.4501	0.4100	18.22	20	-9	
	Cyclohexane	0.5526	0.5252	19.01	20	-5	
	1,1-Dichloropropene	0.4254	0.3877	18.23	20	-9	
	Carbon Tetrachloride	0.3267	0.2996	18.34	20	-8	
	Isobutyl Alcohol	0.4054	0.3588	442.60	500	-11	
	Benzene	1.2165	1.1206	18.42	20	-8	
	1,2-Dichloroethane	0.3482	0.3203	18.40	20	-8	
	t-Amyl Methyl Ether	0.8054	0.7254	18.01	20	-10	
	n-Heptane	0.4556	0.4097	17.98	20	-10	
	n-Butanol	0.3584	0.3010	839.87	1000	-16	
	Trichloroethene	0.3128	0.2895	18.52	20	-7	
*	1,2-Dichloropropane	0.3077	0.2848	18.51	20	-7	*
	Methylcyclohexane	0.5793	0.5407	18.67	20	-7	
	Methyl Methacrylate	0.2580	0.1994	15.46	20	-23	
	Dibromomethane	0.1752	0.1564	17.84	20	-11	
	1,4-Dioxane	0.1160	0.1048	451.52	500	-10	
	Bromodichloromethane	0.3295	0.2988	18.14	20	-9	
	2-Nitropropane	0.0633	0.0483	16.74	20	-16	
	2-Chloroethyl Vinyl Ether	0.2103	0.1858	17.68	20	-12	
	cis-1,3-Dichloropropene	0.4370	0.3931	17.99	20	-10	
	4-Methyl-2-Pentanone	0.3355	0.2765	82.42	100	-18	
*	Toluene	1.0963	0.9993	18.23	20	-9	*
	trans-1,3-Dichloropropene	0.5606	0.5038	17.98	20	-10	
	Ethyl Methacrylate	0.4637	0.4561	19.67	20	-2	
	1,1,2-Trichloroethane	0.3540	0.3214	18.16	20	-9	
	Tetrachloroethene	0.5097	0.4597	18.04	20	-10	
	1,3-Dichloropropane	0.6252	0.5639	18.04	20	-10	
	2-Hexanone	0.3308	0.2559	83.18	100	-17	
	Dibromochloromethane	0.3452	0.3069	17.78	20	-11	
	1,2-Dibromoethane	0.3600	0.3130	17.39	20	-13	
#	Chlorobenzene	1.1868	1.0907	18.38	20	-8	#
	1,1,1,2-Tetrachloroethane	0.3535	0.3040	17.20	20	-14	
*	Ethylbenzene	2.1007	1.9002	18.09	20	-10	*
	m+p-Xylene	0.8254	0.7454	36.12	40	-10	

PTL06 0183

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: HP15648 ICV Date: 08/19/10 Time: 17:07

Lab File ID: eg19cv1.d Init. Calib. Date(s): 08/19/10 08/19/10

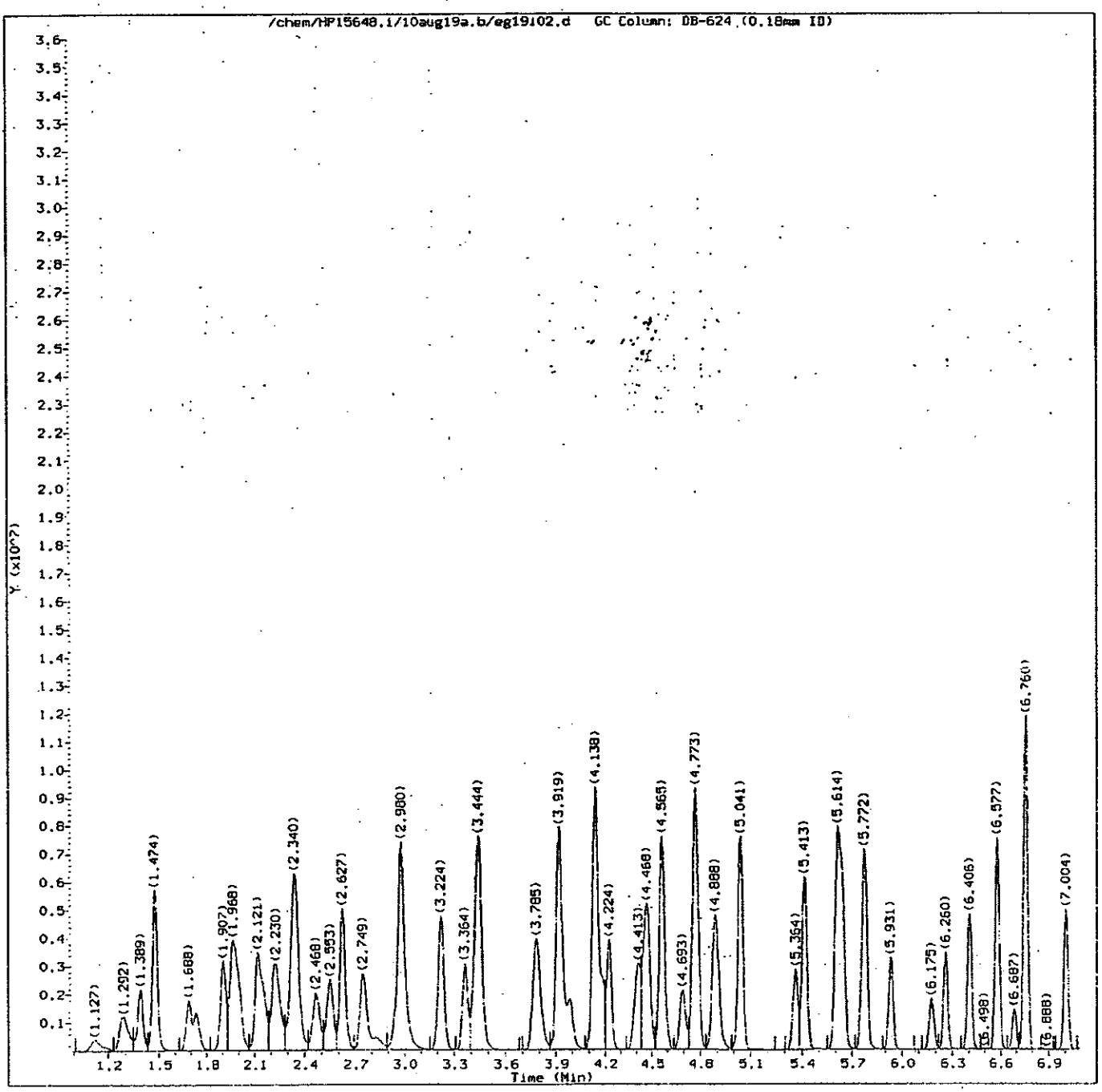
Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Xylene (Total)	0.8165	0.5339	54.20	60	-10	
	o-Xylene	0.7988	0.7219	18.07	20	-10	
	Styrene	1.2613	1.1257	17.85	20	-11	
#	Bromoform	0.2531	0.2138	16.90	20	-16	#
	Isopropylbenzene	2.1027	1.9193	18.26	20	-9	
	Cyclohexanone	0.3937	0.4239	538.34	500	8	
#	1,1,2,2-Tetrachloroethane	0.9636	0.8398	17.43	20	-13	#
	trans-1,4-Dichloro-2-Butene	0.2888	0.2458	85.11	100	-15	
	Bromobenzene	0.8850	0.8044	18.18	20	-9	
	1,2,3-Trichloropropane	0.2842	0.2481	17.45	20	-13	
	n-Propylbenzene	4.5351	4.2568	18.77	20	-6	
	2-Chlorotoluene	0.9043	0.8243	18.23	20	-9	
	1,3,5-Trimethylbenzene	3.0973	2.8230	18.23	20	-9	
	4-Chlorotoluene	0.9164	0.8249	18.00	20	-10	
	tert-Butylbenzene	0.7705	0.6994	18.15	20	-9	
	Pentachloroethane	0.4611	0.4113	17.84	20	-11	
	1,2,4-Trimethylbenzene	3.2111	2.9271	18.23	20	-9	
	sec-Butylbenzene	4.0696	3.7262	18.31	20	-8	
	p-Isopropyltoluene	3.5382	3.2174	18.19	20	-9	
	1,3-Dichlorobenzene	1.7137	1.5807	18.45	20	-8	
	1,4-Dichlorobenzene	1.7336	1.5894	18.34	20	-8	
	1,2,3-Trimethylbenzene	3.1451	2.8842	18.34	20	-8	
	Benzyl Chloride	1.6493	1.3253	16.86	20	-16	
	1,3-Diethylbenzene	2.0408	1.8924	18.55	20	-7	
	1,4-Diethylbenzene	1.8978	1.7170	18.09	20	-10	
	n-Butylbenzene	1.7706	1.5922	17.98	20	-10	
	1,2-Dichlorobenzene	1.6393	1.4897	18.17	20	-9	
	1,2-Diethylbenzene	1.9026	1.7402	18.29	20	-9	
	1,2-Dibromo-3-Chloropropane	0.1823	0.1437	16.67	20	-17	
	1,2,4-Trichlorobenzene	1.1934	1.0593	17.75	20	-11	
	Hexachlorobutadiene	0.5554	0.4809	17.32	20	-13	
	Naphthalene	3.4407	2.9371	17.07	20	-15	
	1,2,3-Trichlorobenzene	1.1074	0.9804	17.71	20	-11	
	2-Methylnaphthalene	1.8178	1.5859	17.45	20	-13	

Average %Drift 11

PTL06 01P4

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d
Injection date and time: 19-AUG-2010 14:47

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300

Lab Sample ID: VSTD300

PTL06 0185

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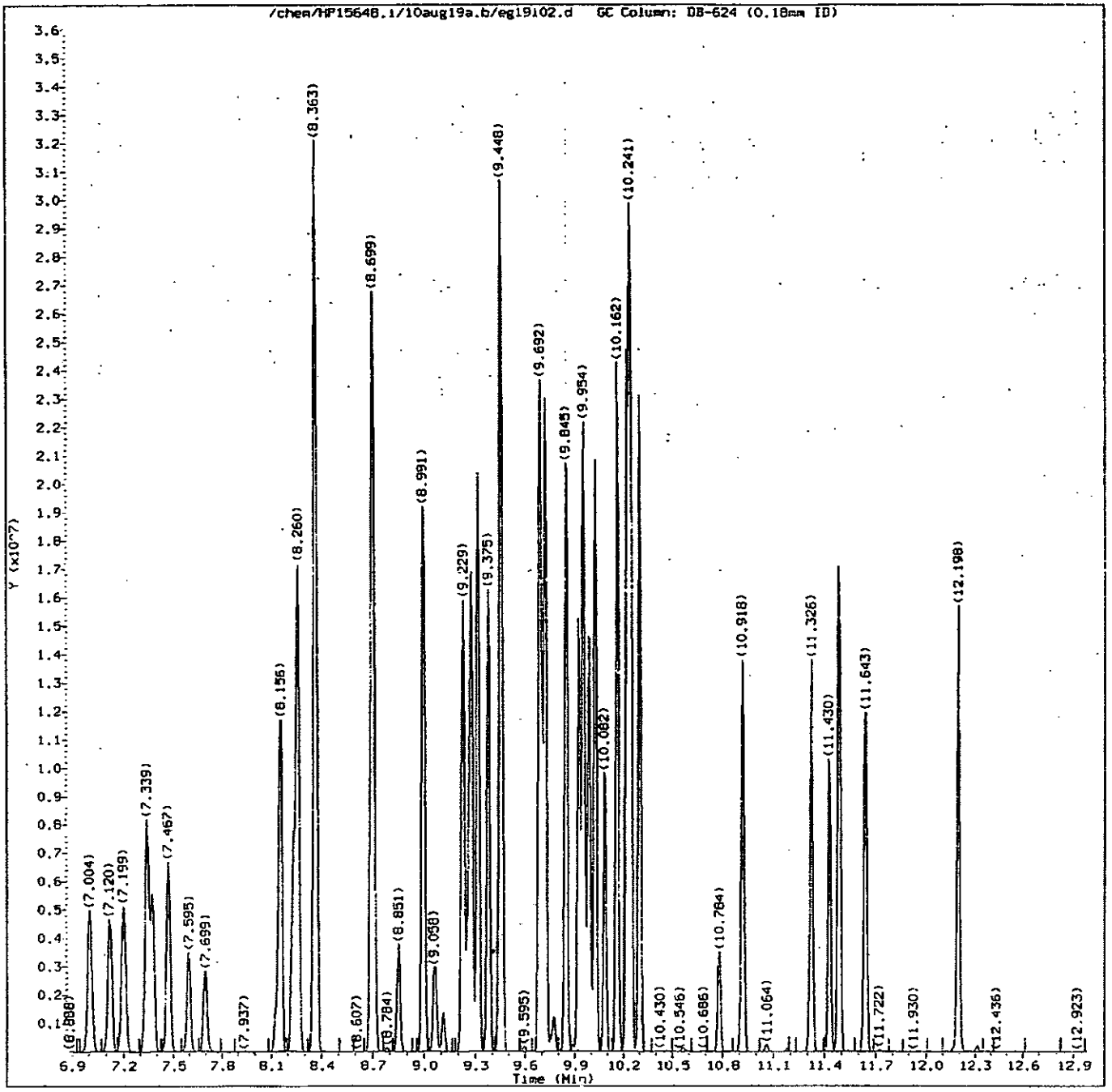
on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

PTL86 8186

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on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.292	85	2796149	297.140
2) Chloromethane	(1)	1.389	50	2870838	299.116
3) 1,3-Butadiene	(1)	1.474	39	1871403	309.639
4) Vinyl Chloride	(1)	1.480	62	2803327	302.138
5) Bromomethane	(1)	1.688	94	1718525	292.473
6) Chloroethane	(1)	1.737	64	1659179	302.583
7) Dichlorofluoromethane	(1)	1.907	67	3736477	312.007
8) Trichlorofluoromethane	(1)	1.968	101	3053863	300.543
9) n-Pentane	(1)	1.968	43	3593947	321.640
12) Ethyl Ether	(1)	2.115	59	1648851	315.993
13) Freon 123a	(1)	2.151	67	2348757	311.702
14) Acrolein	(4)	2.230	56	5752829	2997.431
15) 1,1-Dichloroethene	(1)	2.340	96	1935141	319.158
16) Acetone	(1)	2.340	43	1439028	746.523
17) Freon 113	(1)	2.352	101	1952795	320.004
18) Methyl Iodide	(1)	2.468	142	3148708	315.049
21) Carbon Disulfide	(1)	2.553	76	5294779	316.287
22) Allyl Chloride	(1)	2.627	41	3122011	319.842
23) Methyl Acetate	(1)	2.627	43	1963884M	381.965
24) Methylene Chloride	(1)	2.749	84	1899426	299.532
25) *t-Butyl Alcohol-d10	(4)	2.749	65	164407	250.000
26) t-Butyl Alcohol	(4)	2.834	59	1239230M	1499.600
27) Acrylonitrile	(1)	2.950	53	1100968	381.260
28) trans-1,2-Dichloroethene	(1)	2.980	96	2021353	320.282
29) Methyl Tertiary Butyl Ether	(1)	2.986	73	5550708	318.583
31) n-Hexane	(1)	3.224	57	3137425	320.079
33) 1,1-Dichloroethane	(1)	3.364	63	3598658	318.610
34) di-Isopropyl Ether	(1)	3.431	45	6120588M	321.637
35) 2-Chloro-1,3-Butadiene	(1)	3.450	53	2882602	328.033
36) 1,2-Dichloroethene (total)	(1)		96	4131133	636.883
37) Ethyl t-Butyl Ether	(1)	3.785	59	5536790M	311.690
39) cis-1,2-Dichloroethene	(1)	3.919	96	2109780	316.602
40) 2-Butanone	(1)	3.925	43	2731694	844.576
41) 2,2-Dichloropropane	(1)	3.931	77	2615409	310.499
42) Propionitrile	(4)	3.986	54	2277173	1499.813
44) Methacrylonitrile	(1)	4.138	67	2991026	750.121
45) Bromochloromethane	(1)	4.151	128	972217	307.118
46) Tetrahydrofuran	(4)	4.187	71	791027	599.890
47) Chloroform	(1)	4.224	83	3183453	318.244

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
51)$Dibromofluoromethane(mz111)	(1)	4.382	111	245902	50.066
50)$Dibromofluoromethane	(1)	4.382	113	234243	48.948
52) 1,1,1-Trichloroethane	(1)	4.407	97	2891319	300.080
53) Cyclohexane	(1)	4.468	56	3847969	325.306
55) 1,1-Dichloropropene	(1)	4.565	75	2948029	323.797
56) Carbon Tetrachloride	(1)	4.571	117	2268456	324.390
58) Isobutyl Alcohol	(4)	4.693	41	1178573	3749.660
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.712	104	40904	49.993
59)$1,2-Dichloroethane-d4	(1)	4.712	102	62096	48.870
63) Benzene	(1)	4.766	78	8327518	319.795
65) 1,2-Dichloroethane	(1)	4.785	62	2383635	319.857
67) t-Amyl Methyl Ether	(1)	4.888	73	5505789	319.387
68) n-Heptane	(1)	5.041	43	3130653	321.044
69)*Fluorobenzene	(1)	5.047	96	1070246	50.000
71) n-Butanol	(4)	5.364	56	2155562	7499.182
72) Trichloroethene	(1)	5.413	95	2158679	322.455
74) Methylcyclohexane	(1)	5.614	83	4101160	330.751
76) 1,2-Dichloropropane	(1)	5.644	63	2136475	324.403
78) Dibromomethane	(1)	5.760	93	1223664	326.188
79) Methyl Methacrylate	(1)	5.778	69	2099925	380.169
80) 1,4-Dioxane	(4)	5.785	88	304423	3735.616
81) Bromodichloromethane	(1)	5.931	83	2307277	327.167
82) 2-Nitropropane	(1)	6.175	41	1155592	600.073
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	1614265	358.675
87) cis-1,3-Dichloropropene	(1)	6.406	75	3054907	326.620
88) 4-Methyl-2-Pentanone	(1)	6.577	43	5512401	767.637
90)$Toluene-d8	(2)	6.687	98	1059383	49.946
89)$Toluene-d8(mz100)	(2)	6.687	100	689220	50.240
91) Toluene	(2)	6.760	92	5467025	325.070
92) trans-1,3-Dichloropropene	(2)	7.004	75	2884135	335.399
93) Ethyl Methacrylate	(2)	7.120	69	2578271	362.491
94) 1,1,2-Trichloroethane	(2)	7.199	97	1773985	326.663
96) Tetrachloroethene	(2)	7.339	166	2493727	318.910
97) 1,3-Dichloropropane	(2)	7.370	76	3172698	330.801
98) 2-Hexanone	(2)	7.467	43	4048175	600.117
100) Dibromochloromethane	(2)	7.595	129	1816243	342.985
101) 1,2-Dibromoethane	(2)	7.693	107	1879290	340.294
103)*Chlorobenzene-d5	(2)	8.126	117	767008	50.000
104) Chlorobenzene	(2)	8.156	112	5970270	327.937

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

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on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
105) Xylene (Total)	(2)		106	12668300	1011.363
106) 1,1,1,2-Tetrachloroethane	(2)	8.235	131	1823214	336.245
107) Ethylbenzene	(2)	8.260	91	10639946	330.183
108) m+p-Xylene	(2)	8.363	106	8544108	674.815
110) o-Xylene	(2)	8.692	106	4124192	336.547
111) Styrene	(2)	8.705	104	6784582	350.641
112) Bromoform	(2)	8.851	173	1463999	377.088
113) Isopropylbenzene	(2)	8.997	105	10751915	333.332
115) Cyclohexanone	(4)	9.064	55	1067973	3744.514
117)$4-Bromofluorobenzene(mz174)	(2)	9.113	174	327000M	50.551
116)$4-Bromofluorobenzene	(2)	9.113	95	388386	51.614
118) Bromobenzene	(3)	9.223	156	2469856	315.109
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	2996080	351.069
120) 1,2,3-Trichloropropane	(3)	9.259	110	892061	354.343
121) trans-1,4-Dichloro-2-Butene	(3)	9.278	53	2421275M	946.644
122) n-Propylbenzene	(3)	9.314	91	11873973M	295.619
123) 2-Chlorotoluene	(3)	9.375	126	2529523	315.816
124) 1,3,5-Trimethylbenzene	(3)	9.448	105	9018225M	328.743
125) 4-Chlorotoluene	(3)	9.461	126	2629307	323.940
127) tert-Butylbenzene	(3)	9.692	134	2216765	324.827
128) Pentachloroethane	(3)	9.704	167	1431524	350.510
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	9283945	326.444
132) sec-Butylbenzene	(3)	9.845	105	10944155M	303.634
133) 1,3-Dichlorobenzene	(3)	9.924	146	4902958	323.032
134) p-Isopropyltoluene	(3)	9.954	119	10089329	321.958
135)*1,4-Dichlorobenzene-d4	(3)	9.973	152	442839	50.000
136) 1,4-Dichlorobenzene	(3)	9.991	146	4919300	320.385
137) 1,2,3-Trimethylbenzene	(3)	10.028	105	8984989	322.559
138) Benzyl Chloride	(3)	10.082	91	5624607	300.032
139) 1,3-Diethylbenzene	(3)	10.162	105	6085905	336.702
140) 1,4-Diethylbenzene	(3)	10.223	105	5701034	339.182
141) n-Butylbenzene	(3)	10.241	92	5268925M	335.981
142) 1,2-Dichlorobenzene	(3)	10.253	146	4683846	322.594
143) 1,2-Diethylbenzene	(3)	10.302	105	5595384	332.049
145) 1,2-Dibromo-3-Chloropropane	(3)	10.777	75	662316M	300.063
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	3412704	322.863
147) Hexachlorobutadiene	(3)	11.430	225	1560892	317.320
148) Naphthalene	(3)	11.491	128	10425532	342.120
149) 1,2,3-Trichlorobenzene	(3)	11.643	180	3119200	318.016

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0189

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on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d
Injection date and time: 19-AUG-2010 14:47

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300

Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
152) 2-Methylnaphthalene	(3)	12.198	142	5641054	350.378

PTL06 0198

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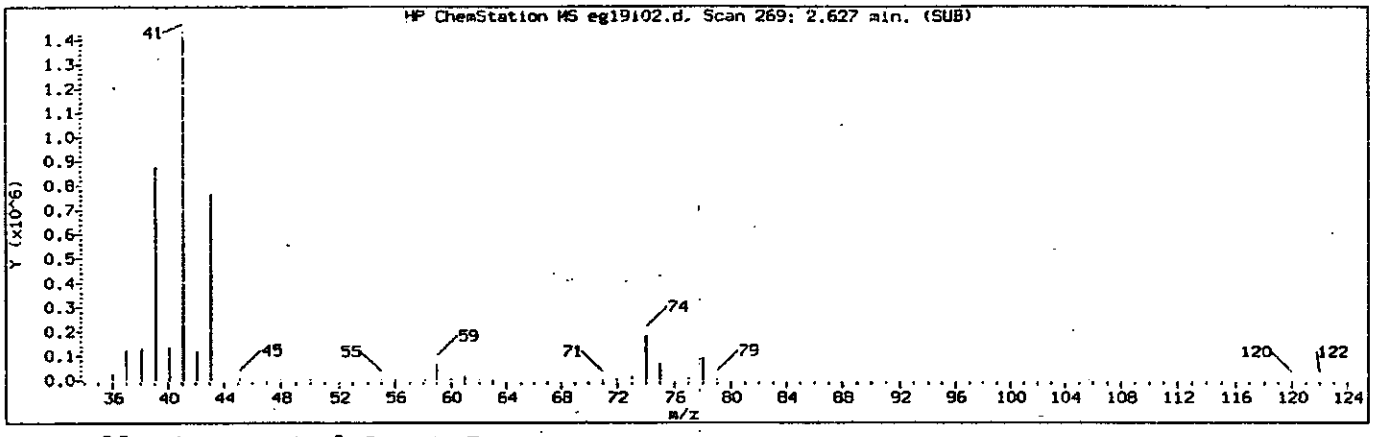
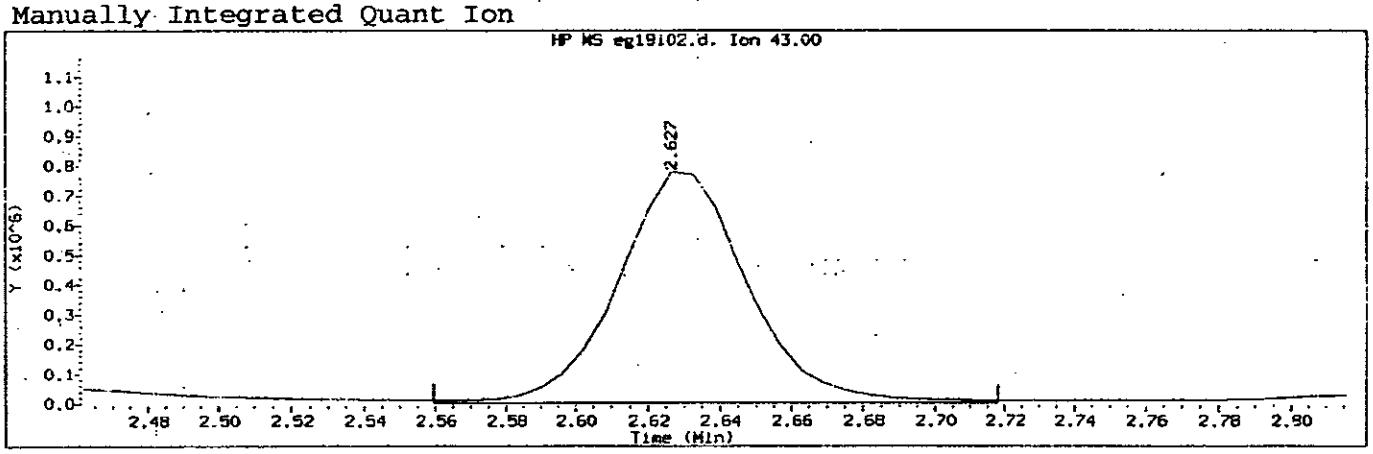
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 23
Compound Name : Methyl Acetate
Scan Number : 269
Retention Time (minutes): 2.627
Quant Ion : 43.00
Area (flag) : 1963884M
On-Column Amount (ng) : 381.9653
Integration start scan : 257 Integration stop scan: 283
Y at integration start : 1207 Y at integration end: 1207

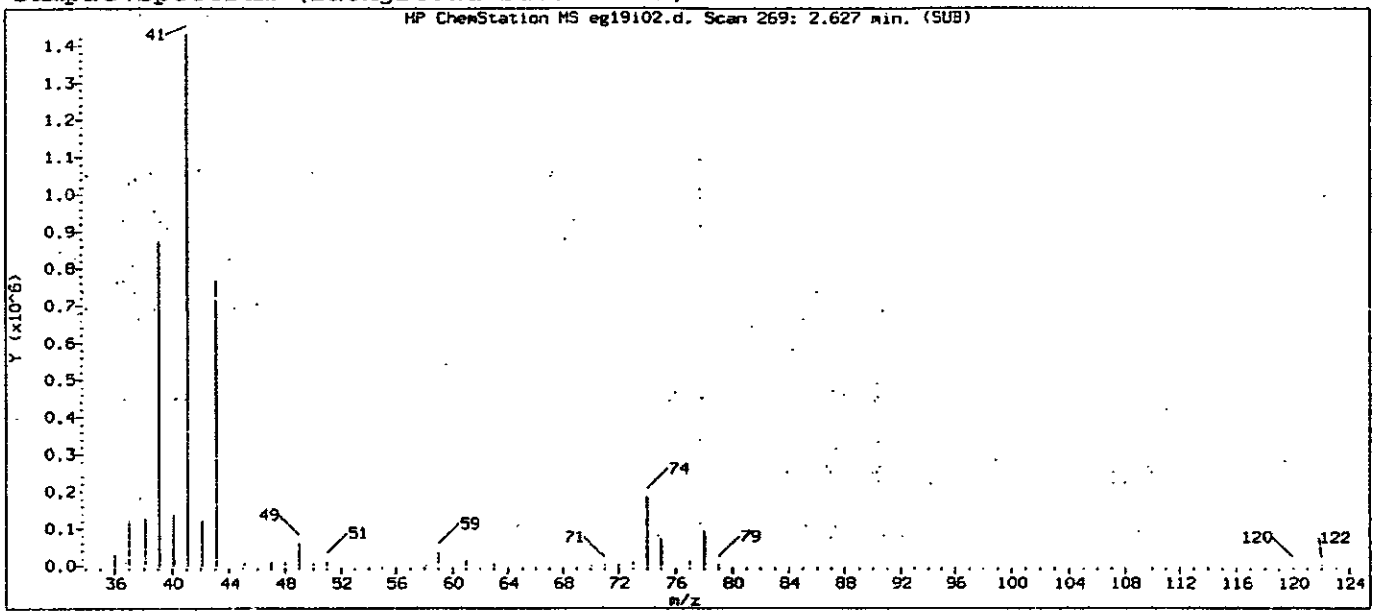
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

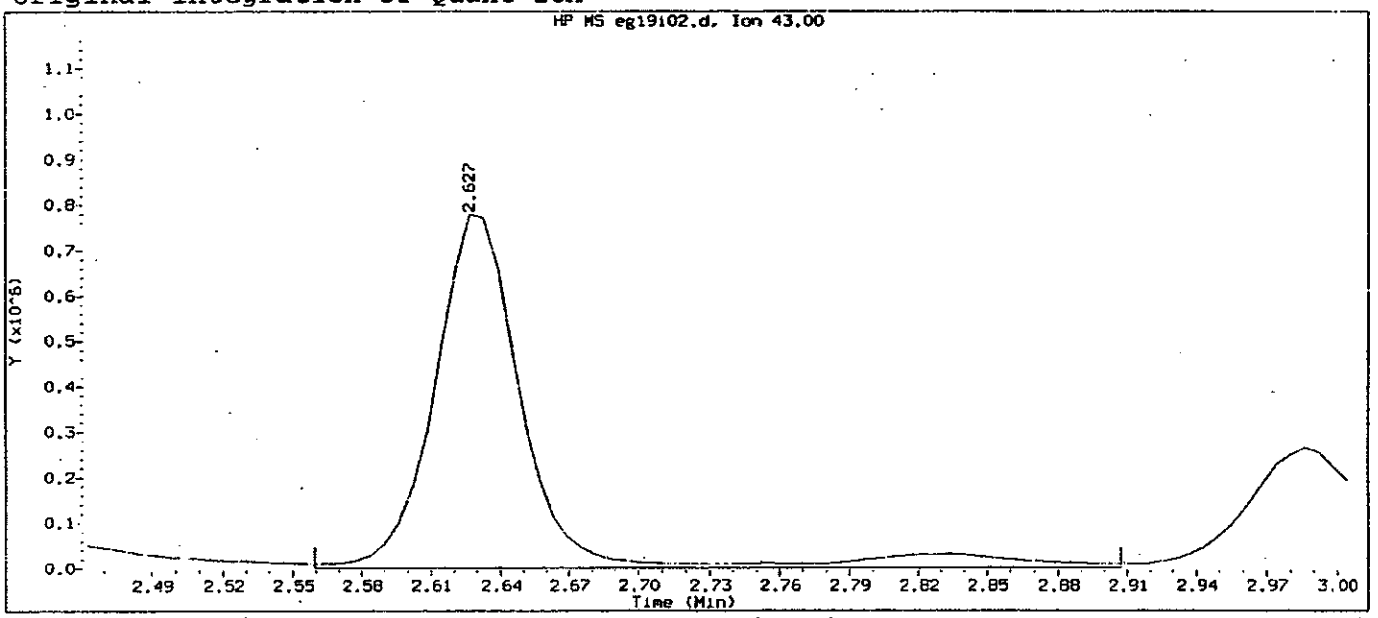
GC/MS audit/management approval: [signature] 8/20/10

FTL86 8191

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

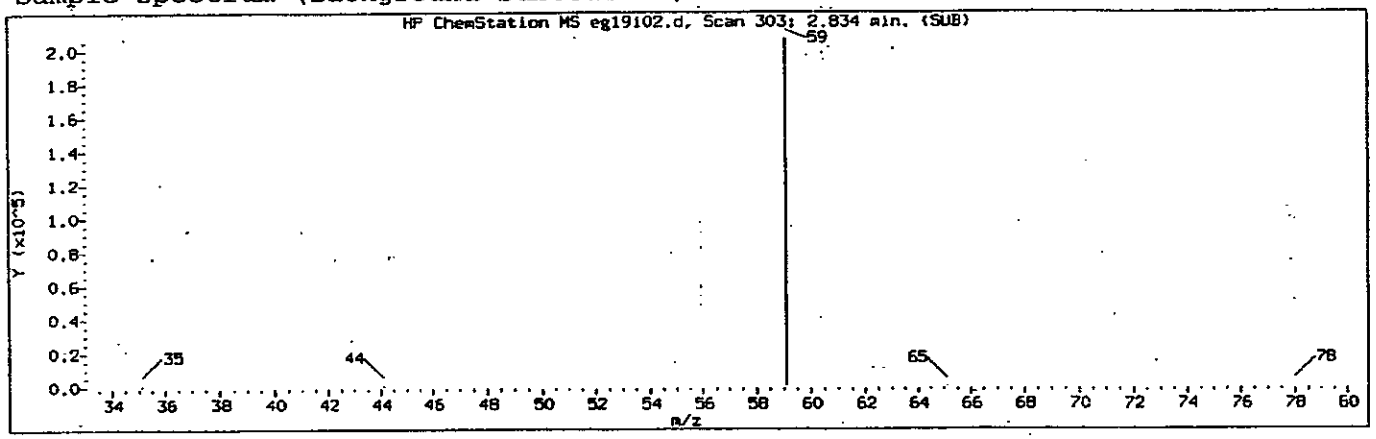
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 23
Compound Name : Methyl Acetate
Scan Number : 269
Retention Time (minutes): 2.627
Quant Ion : 43.00
Area : 2140346
On-column Amount (ng) : 352.2270
Integration start scan : 257 Integration stop scan: 314
Y at integration start : 1207 Y at integration end: 1207

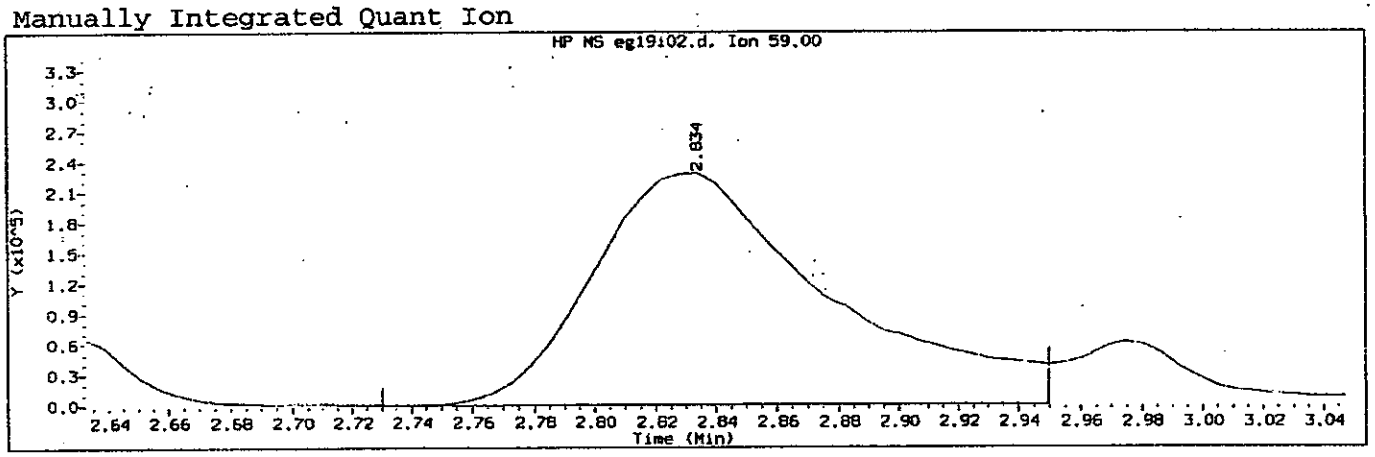
PTL06 0192

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

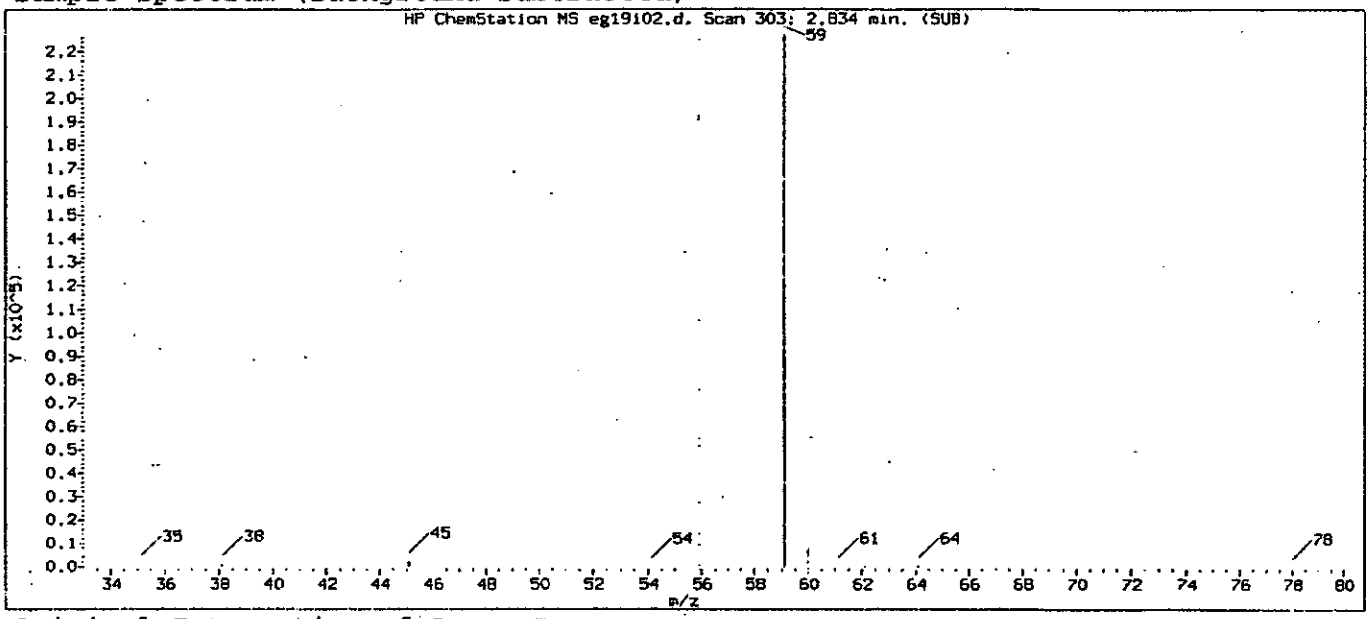
Compound Number	: 26		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 303		
Retention Time (minutes)	: 2.834		
Quant Ion	: 59.00		
Area (flag)	: 1239230M		
On-Column Amount (ng)	: 1499.6004		
Integration start scan	: 285	Integration stop scan:	321
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

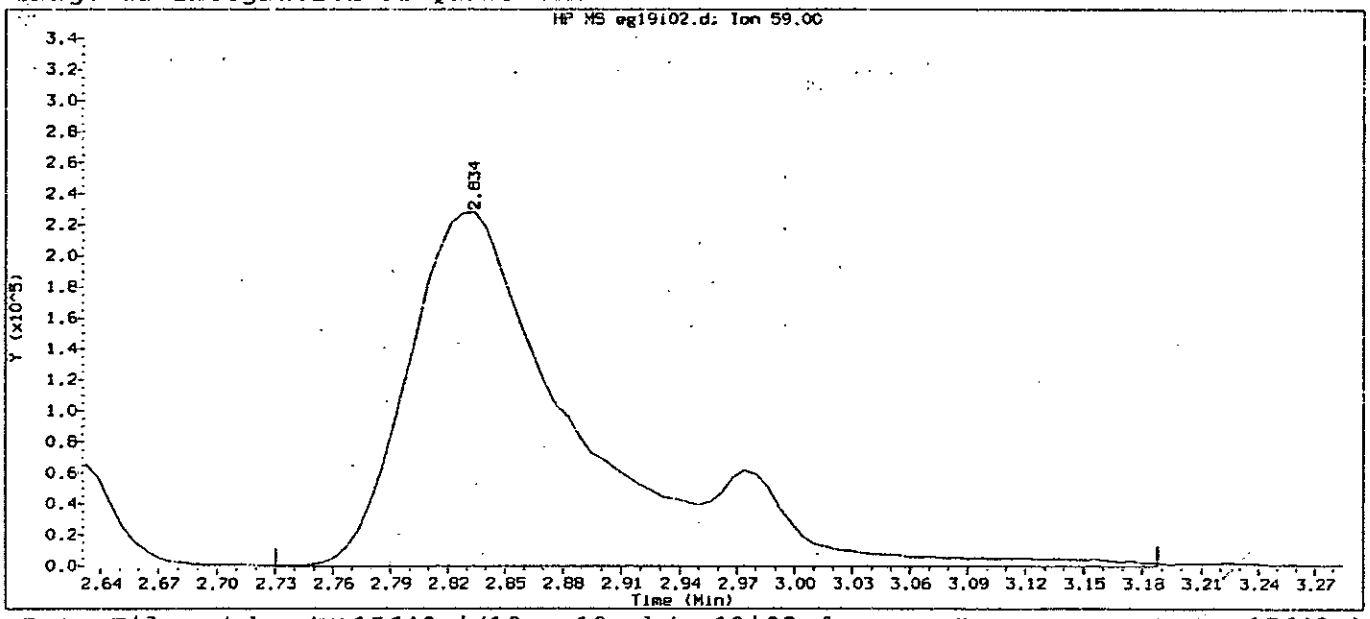
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [illegible] 8/20/10 PTL86 #193

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

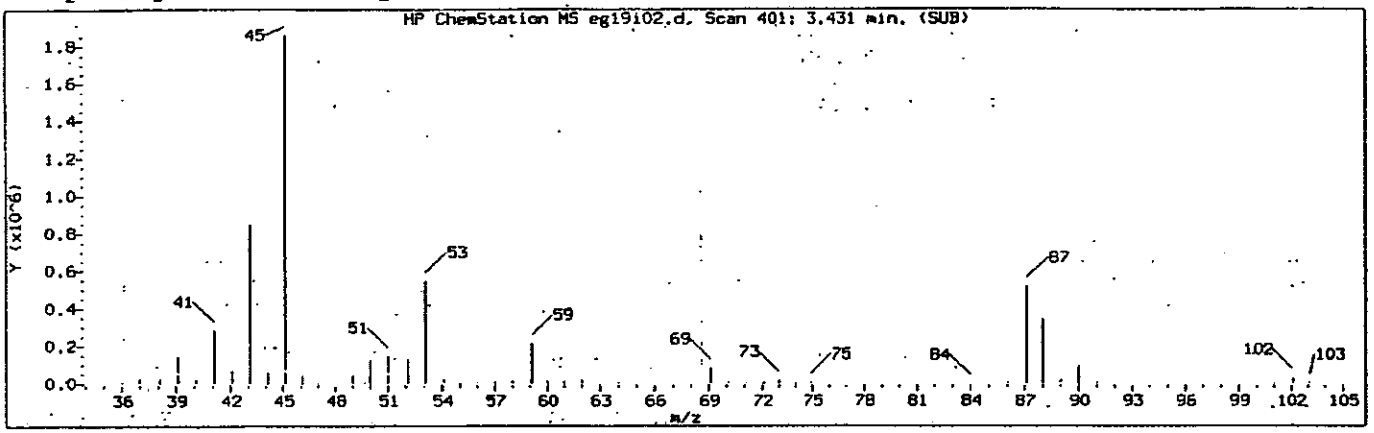
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 303
Retention Time (minutes): 2.834
Quant Ion : 59.00
Area : 1451398
On-column Amount (ng) : 1530.2655
Integration start scan : 285 Integration stop scan: 360
Y at integration start : 0 Y at integration end: 0

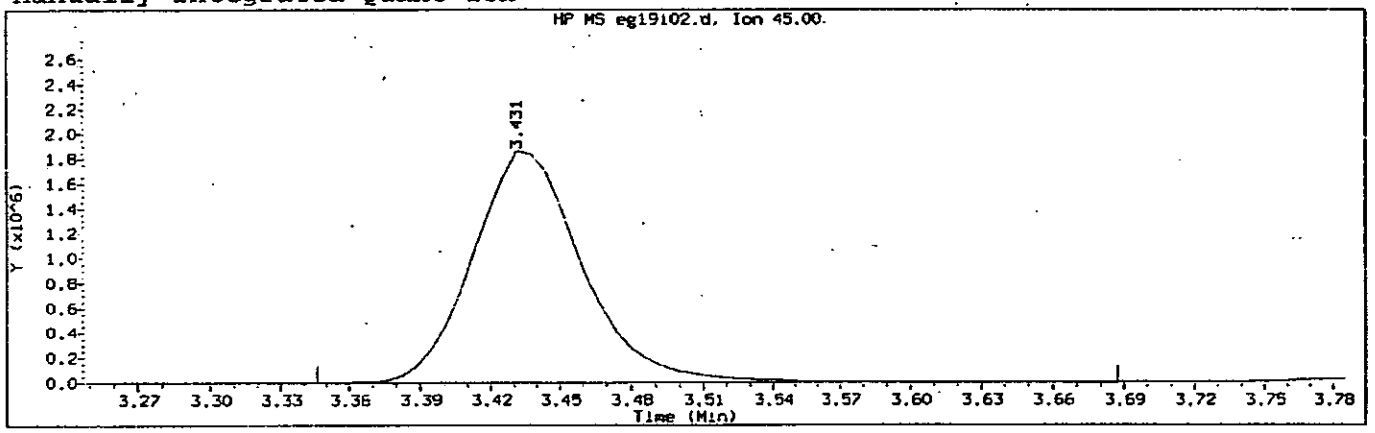
PTL06 8194

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

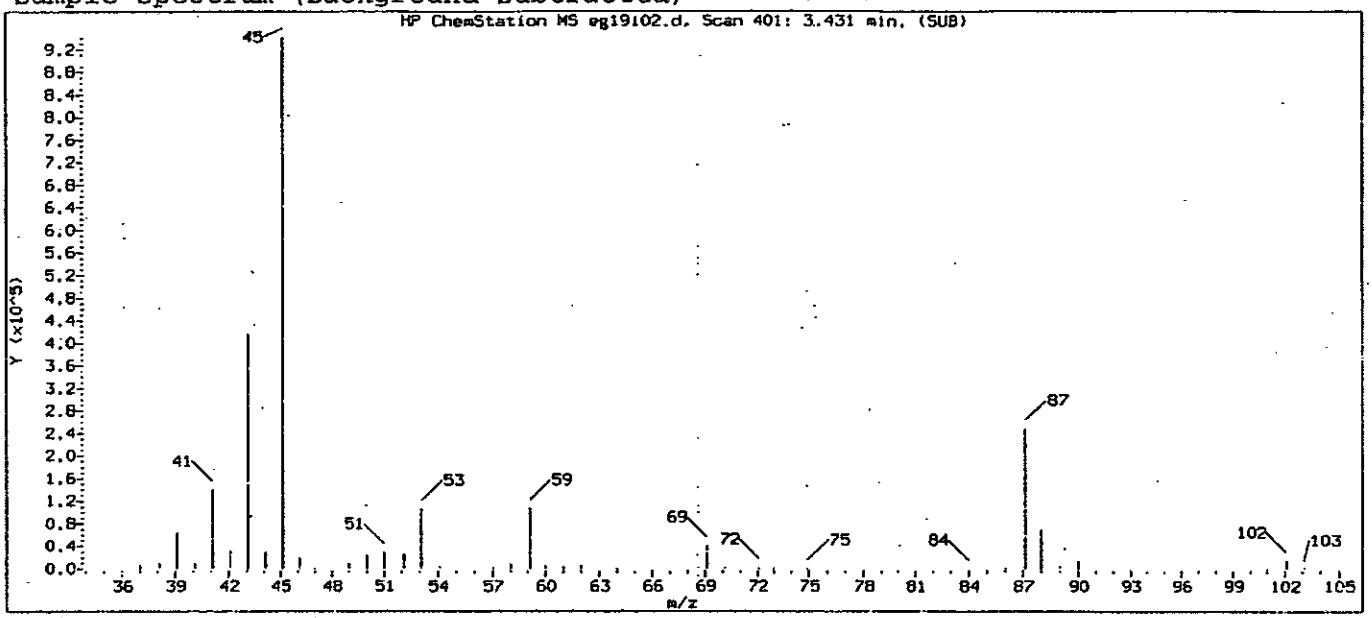
Compound Number	: 34		
Compound Name	: di-Isopropyl Ether		
Scan Number	: 401		
Retention Time (minutes)	: 3.431		
Quant Ion	: 45.00		
Area (flag)	: 6120588M		
On-Column Amount (ng)	: 321.6371		
Integration start scan	: 386	Integration stop scan:	442
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

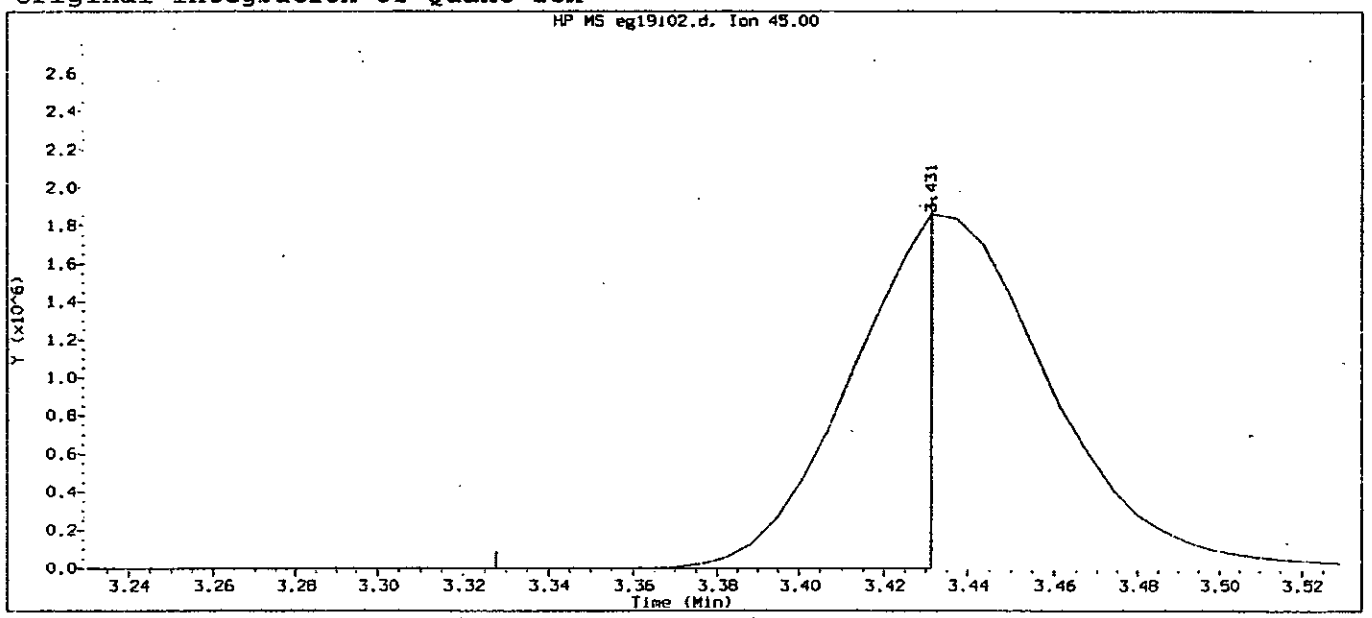
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: 8/20/10 PTL86 P195

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

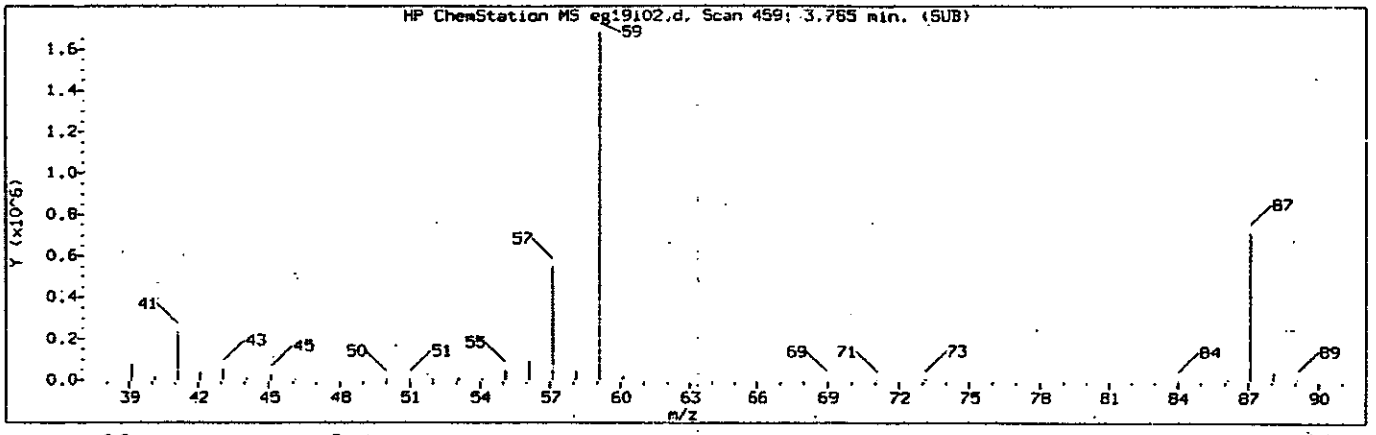
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 34
Compound Name : di-Isopropyl Ether
Scan Number : 401
Retention Time (minutes): 3.431
Quant Ion : 45.00
Area : 2445726
On-column Amount (ng) : 180.6625
Integration start scan : 383 Integration stop scan: 400
Y at integration start : 526 Y at integration end: 526

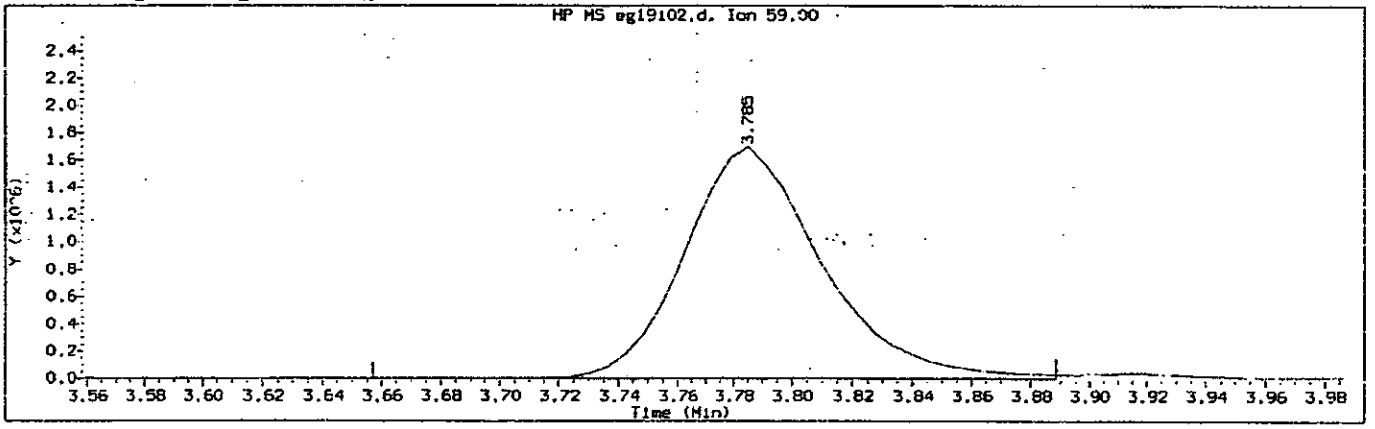
PTL86 8196

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 37		
Compound Name	: Ethyl t-Butyl Ether		
Scan Number	: 459		
Retention Time (minutes)	: 3.785		
Quant Ion	: 59.00		
Area (flag)	: 5536790M		
On-Column Amount (ng)	: 311.6900		
Integration start scan	: 437	Integration stop scan:	475
Y at integration start	: 279	Y at integration end:	279

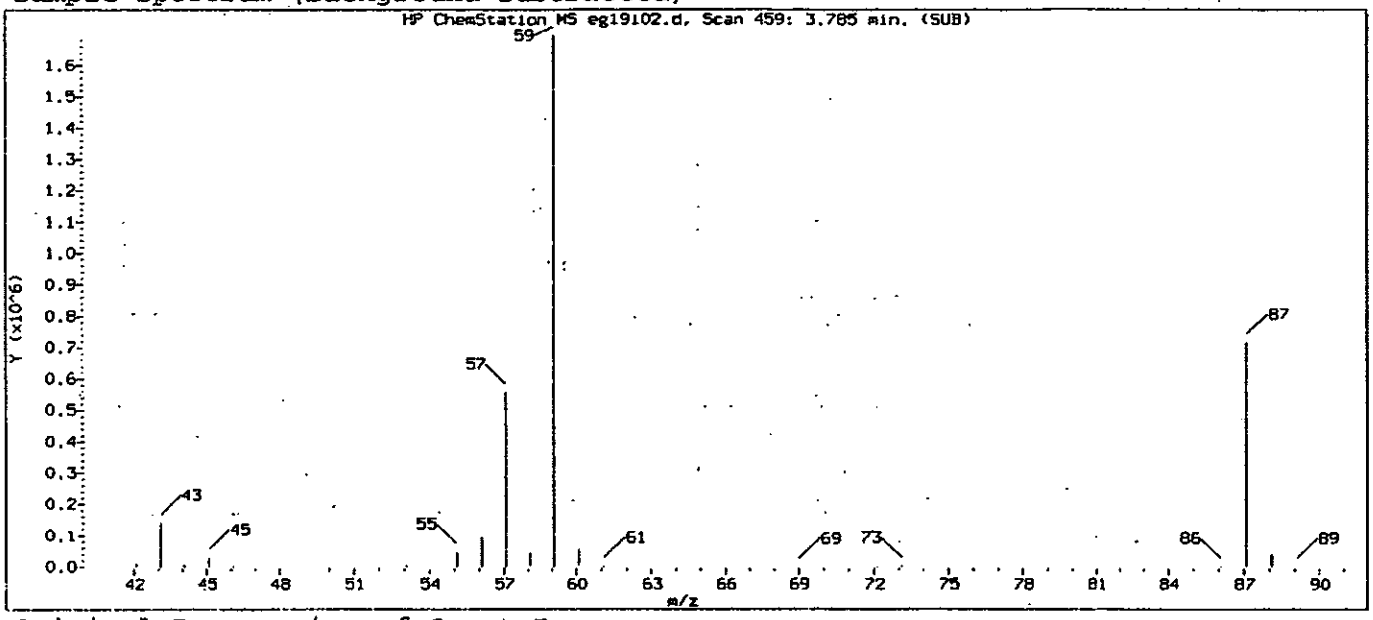
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

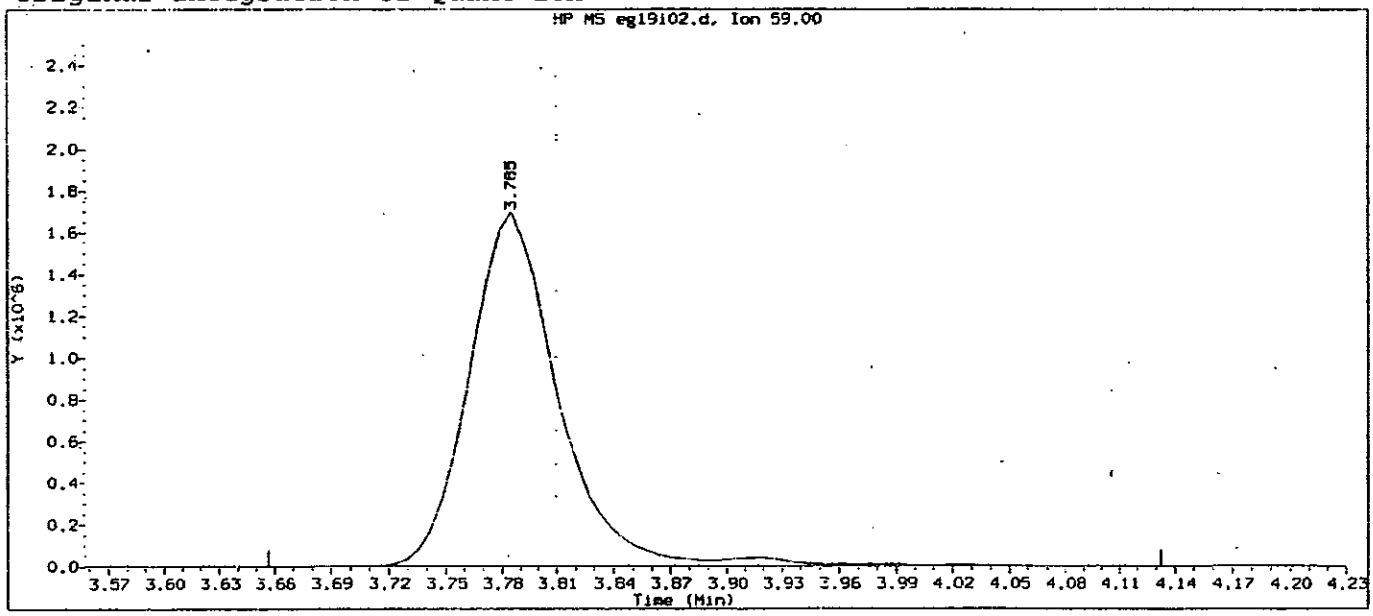
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 8197

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

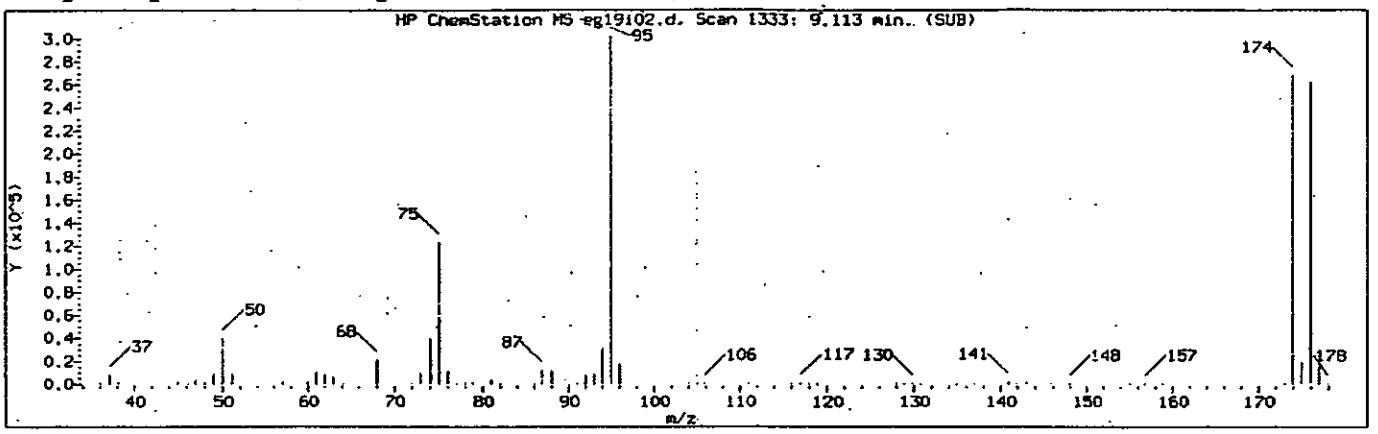
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 459
Retention Time (minutes): 3.785
Quant Ion : 59.00
Area : 5690850
On-column Amount (ng) : 307.7928
Integration start scan : 437 Integration stop scan: 515
Y at integration start : 279 Y at integration end: 279

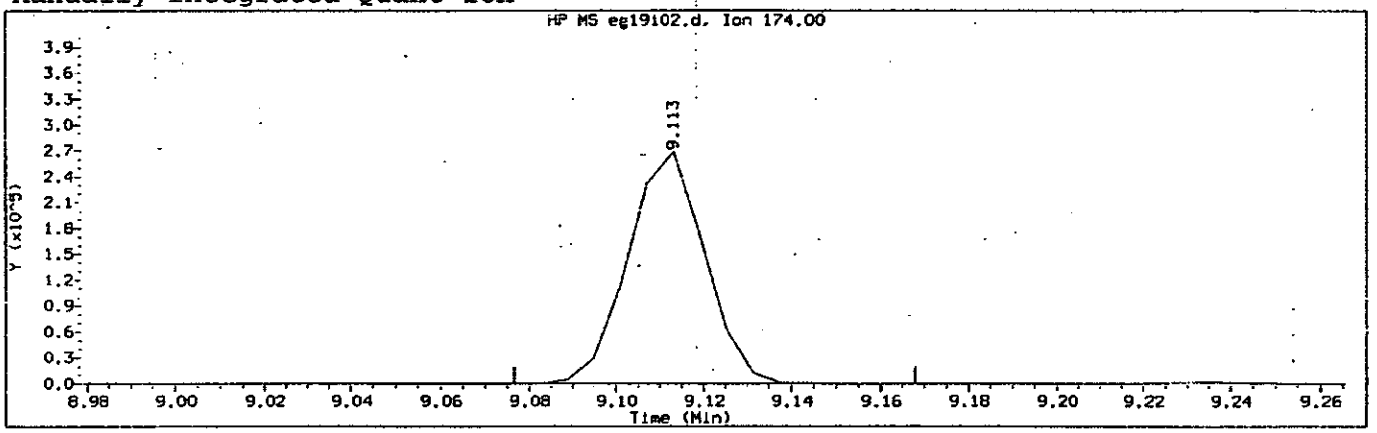
PTL06 0198

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 117
Compound Name : 4-Bromofluorobenzene(mz174)
Scan Number : 1333
Retention Time (minutes): 9.113
Quant Ion : 174.00
Area (flag) : 327000M
On-Column Amount (ng) : 50.5513
Integration start scan : 1326 Integration stop scan: 1341
Y at integration start : 0 Y at integration end: 0

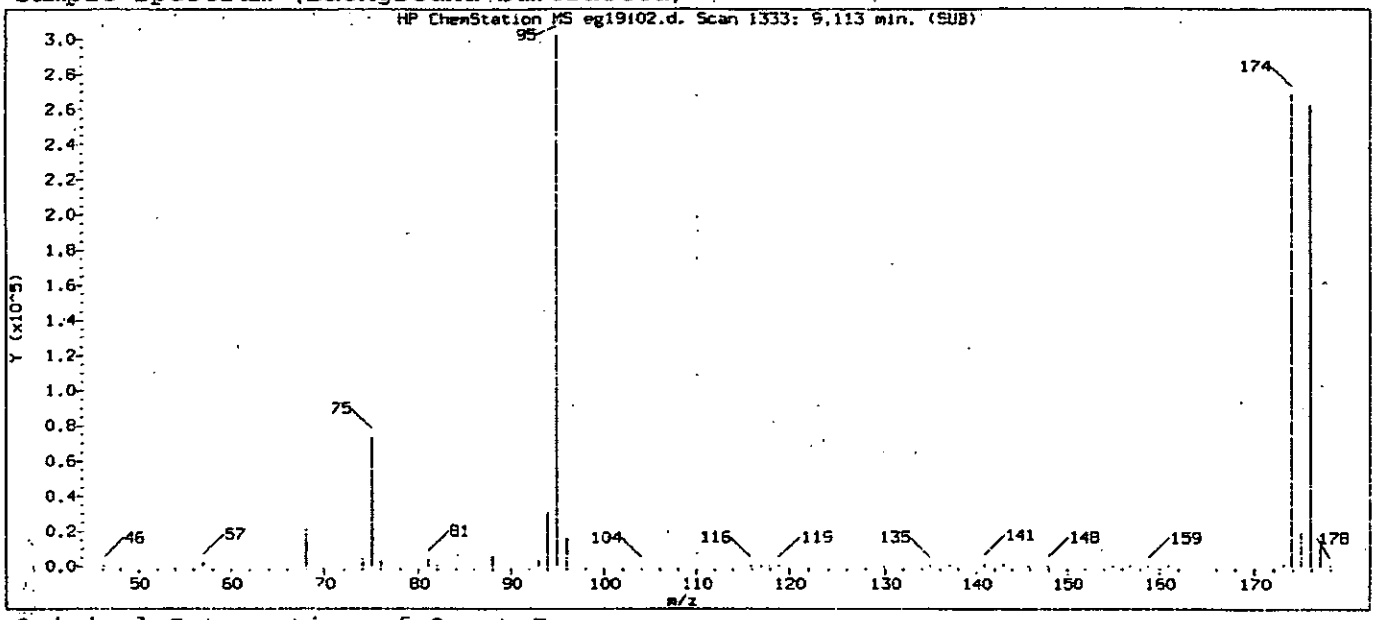
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

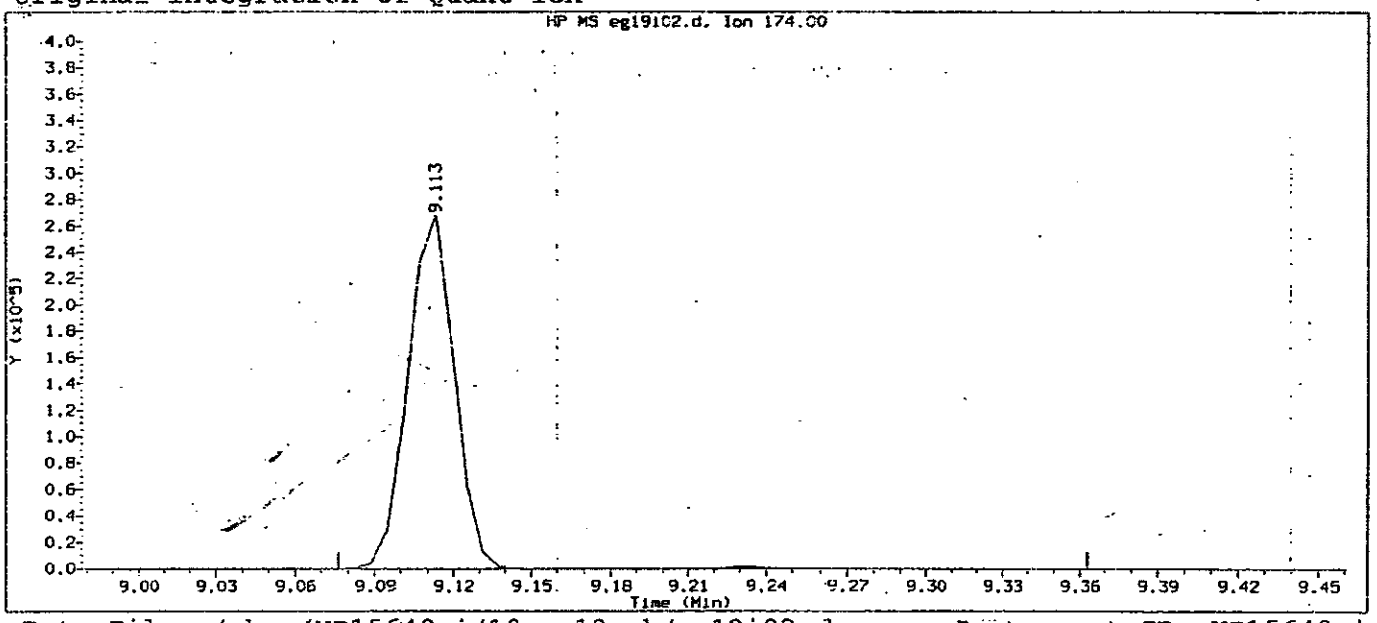
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8199

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

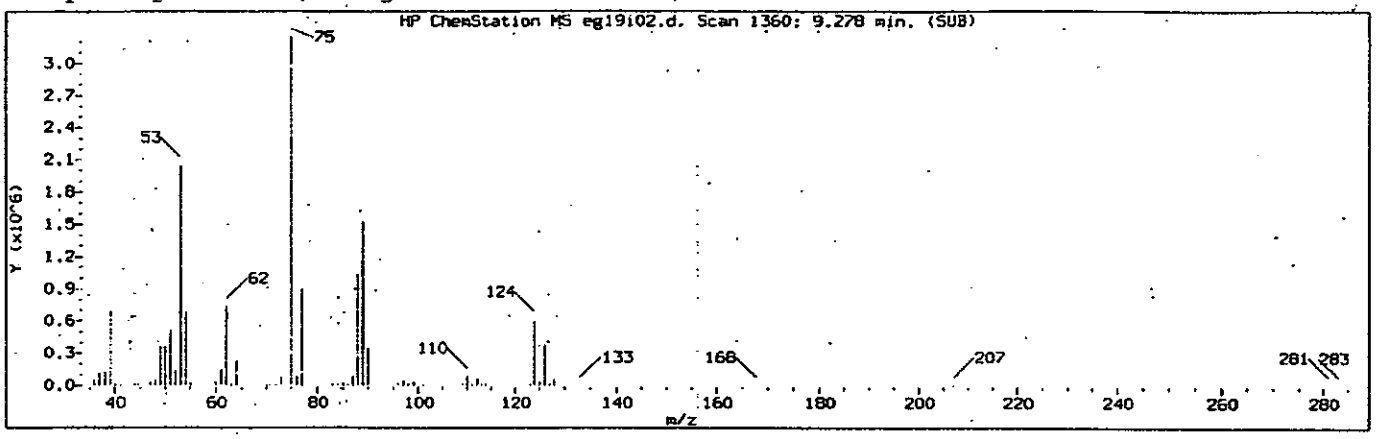
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 117
Compound Name : 4-Bromofluorobenzene(mz174)
Scan Number : 1333
Retention Time (minutes): 9.113
Quant Ion : 174.00
Area : 329000
On-column Amount (ng) : 151.9835
Integration start scan : 1326 Integration stop scan: 1373
Y at integration start : 0 Y at integration end: 0

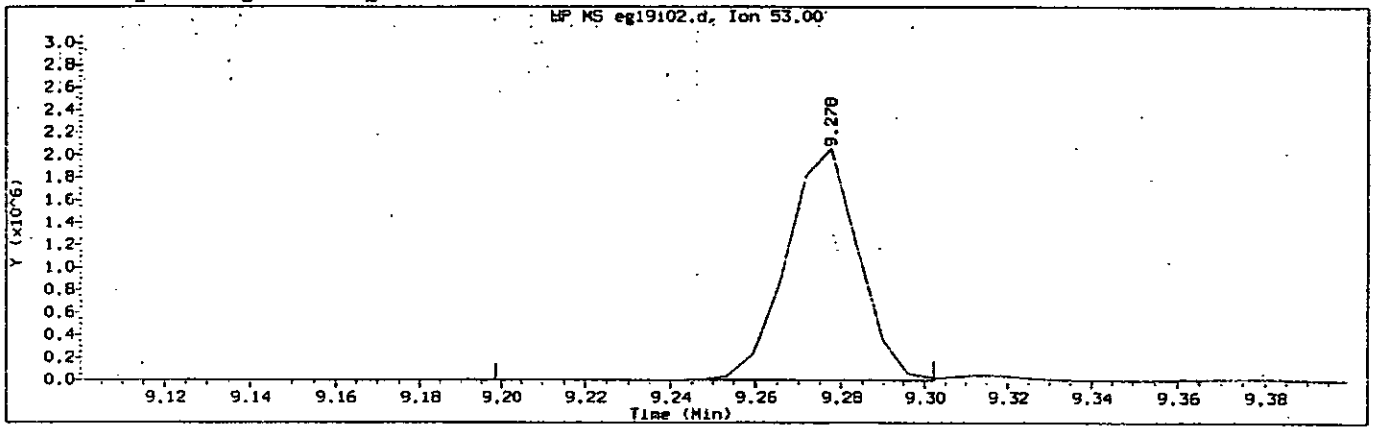
PTL06 0208

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 121
Compound Name	: trans-1,4-Dichloro-2-Butene
Scan Number	: 1360
Retention Time (minutes)	: 9.278
Quant Ion	: 53.00
Area (flag)	: 2421275M
On-Column Amount (ng)	: 946.6443
Integration start scan	: 1346 Integration stop scan: 1363
Y at integration start	: 0 Y at integration end: 0

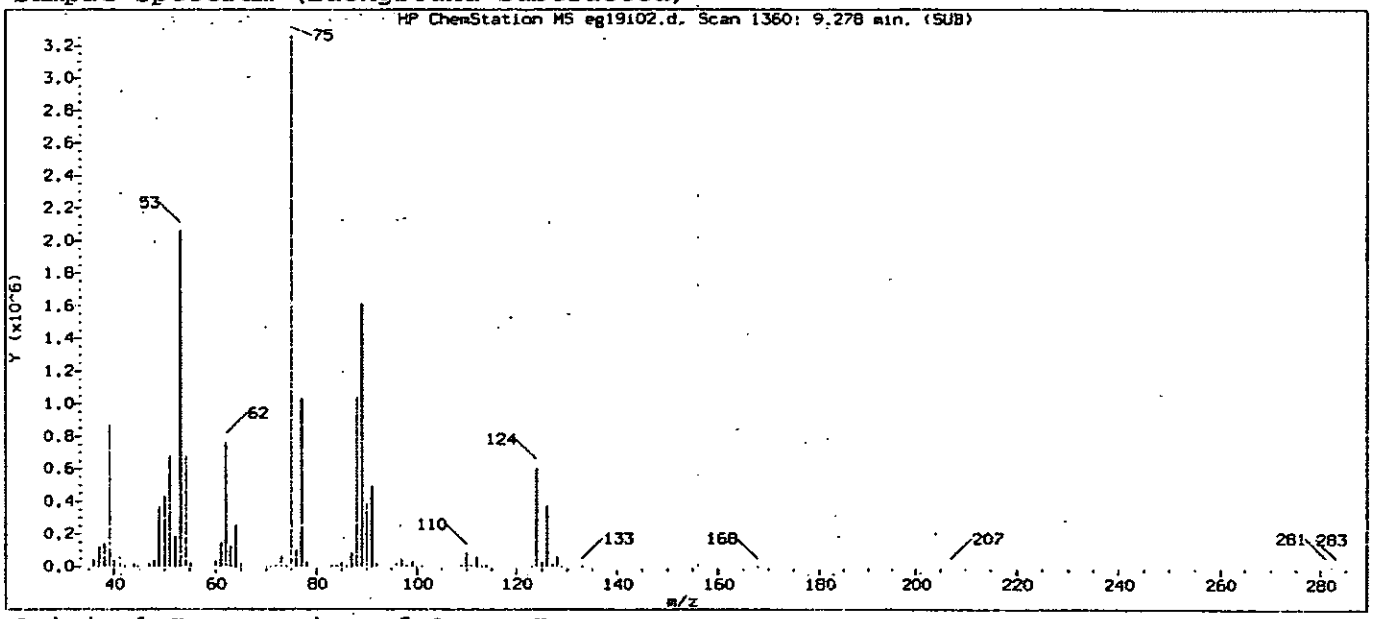
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

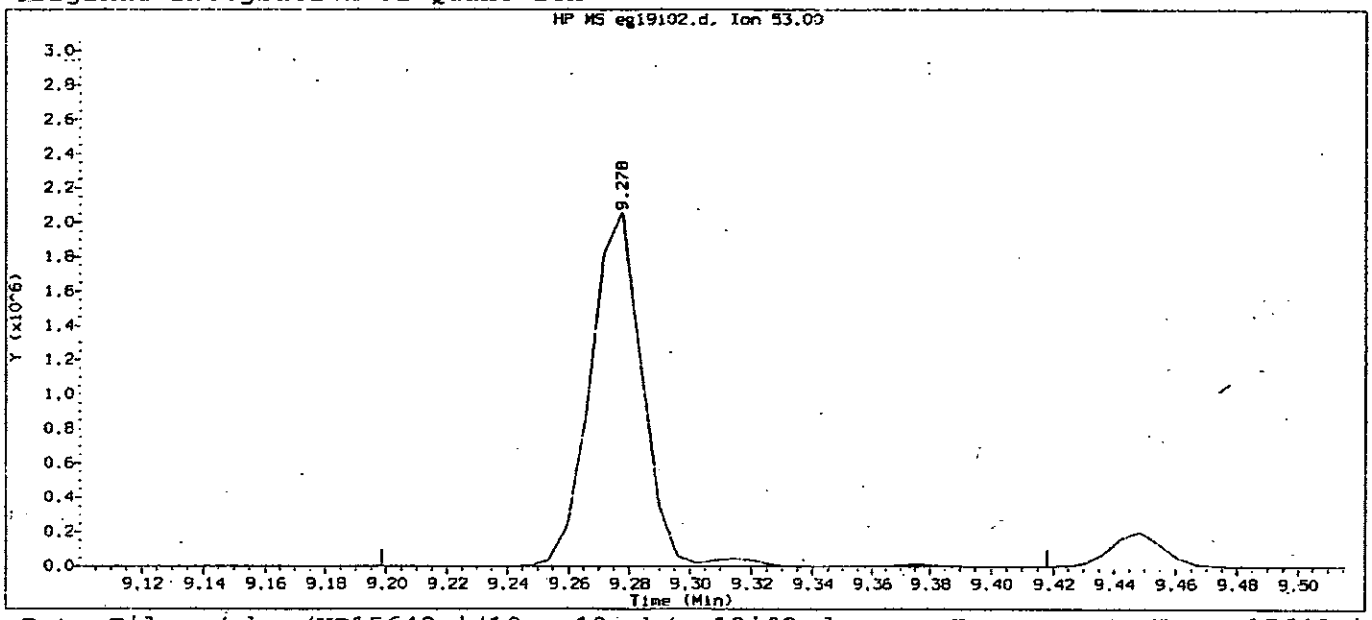
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0281

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

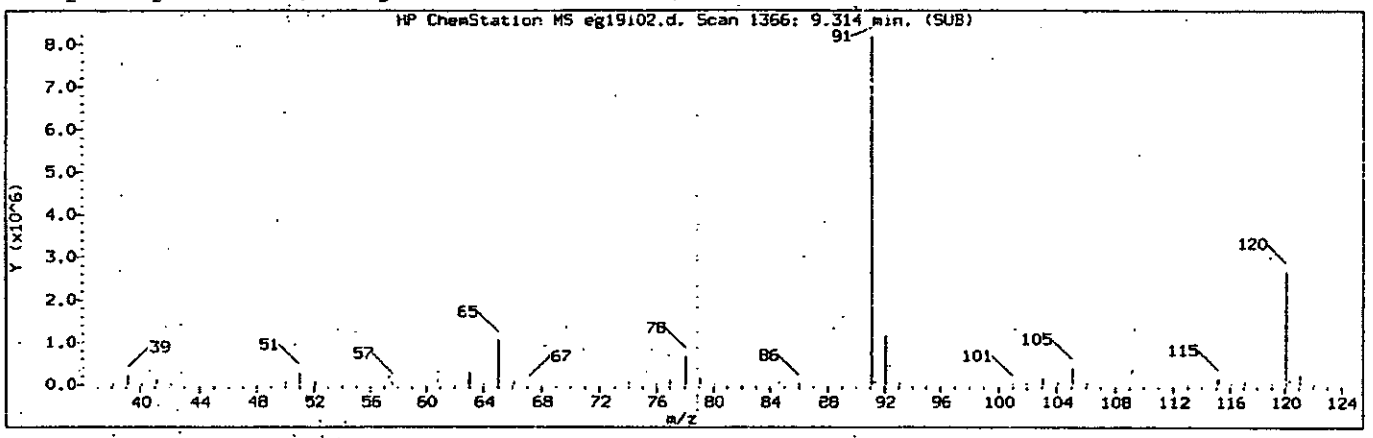
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1360
Retention Time (minutes): 9.278
Quant Ion : 53.00
Area : 2486528
On-column Amount (ng) : 839.3616
Integration start scan : 1346 Integration stop scan: 1382
Y at integration start : 0 Y at integration end: 0

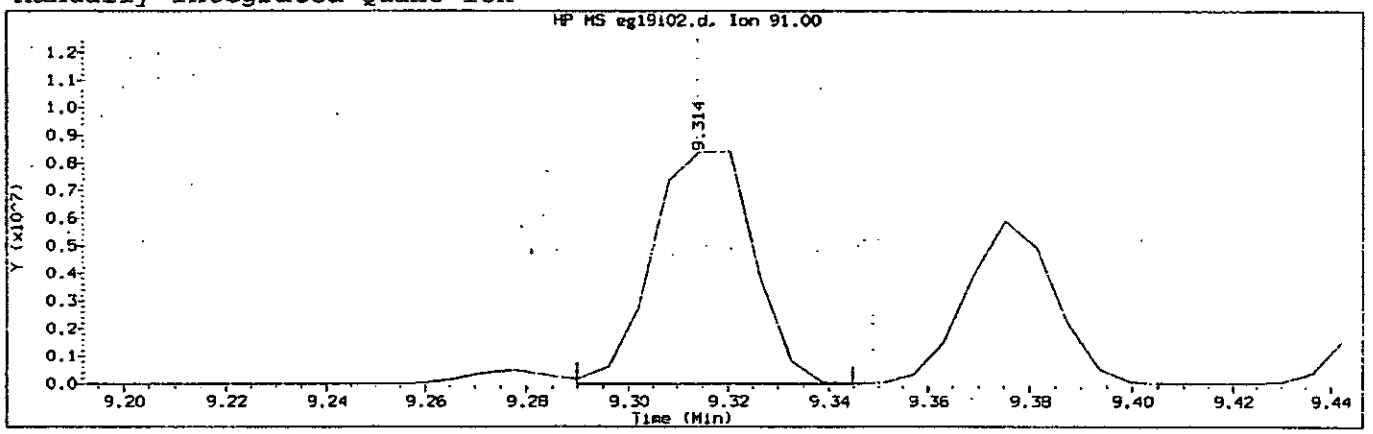
PTL06 0282

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1366
Retention Time (minutes): 9.314
Quant Ion : 91.00
Area (flag) : 11873973M
On-Column Amount (ng) : 295.6189
Integration start scan : 1361 Integration stop scan: 1370
Y at integration start : 0 Y at integration end: 0

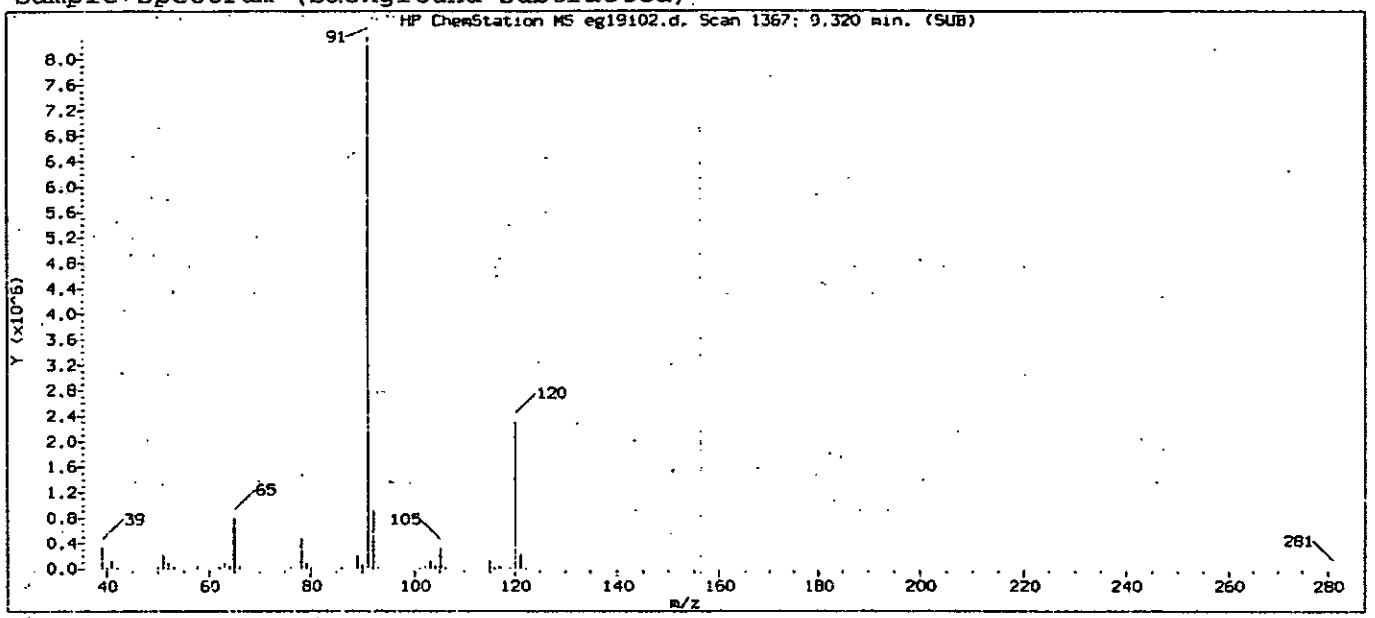
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

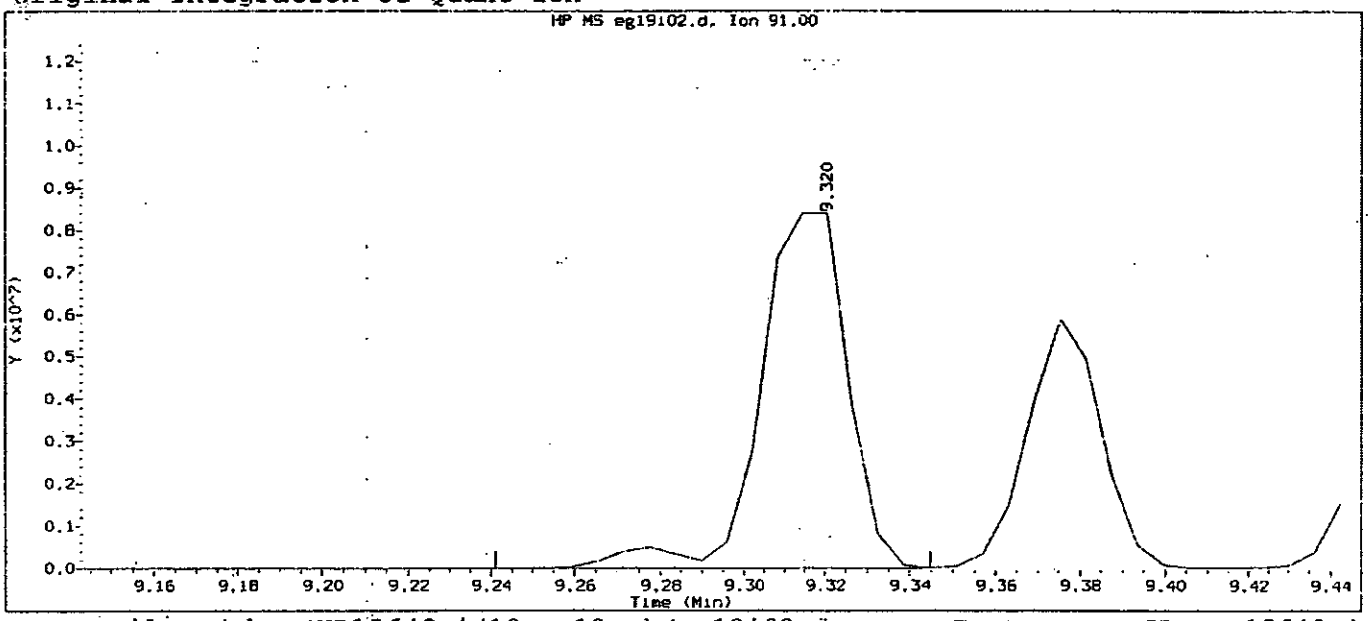
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8263

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/egi9i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

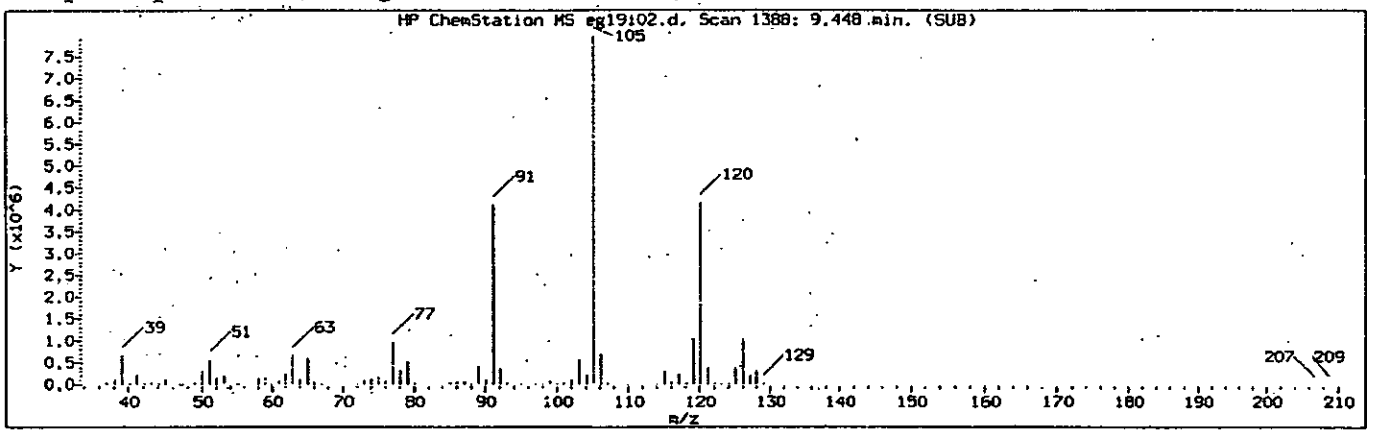
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1367
Retention Time (minutes): 9.320
Quant Ion : 91.00
Area : 12410279
On-column Amount (ng) : 234.5520
Integration start scan : 1353 Integration stop scan: 1370
Y at integration start : 0 Y at integration end: 0

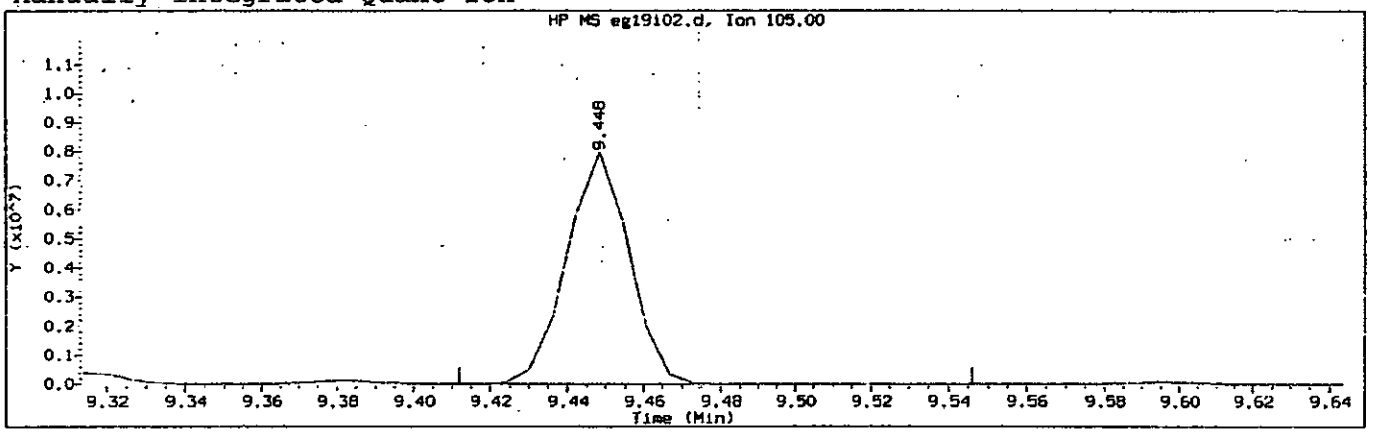
PTL05 0204

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 124
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1388
Retention Time (minutes): 9.448
Quant Ion : 105.00
Area (flag) : 9018225M
On-Column Amount (ng) : 328.7431
Integration start scan : 1381 Integration stop scan: 1403
Y at integration start : 0 Y at integration end: 0

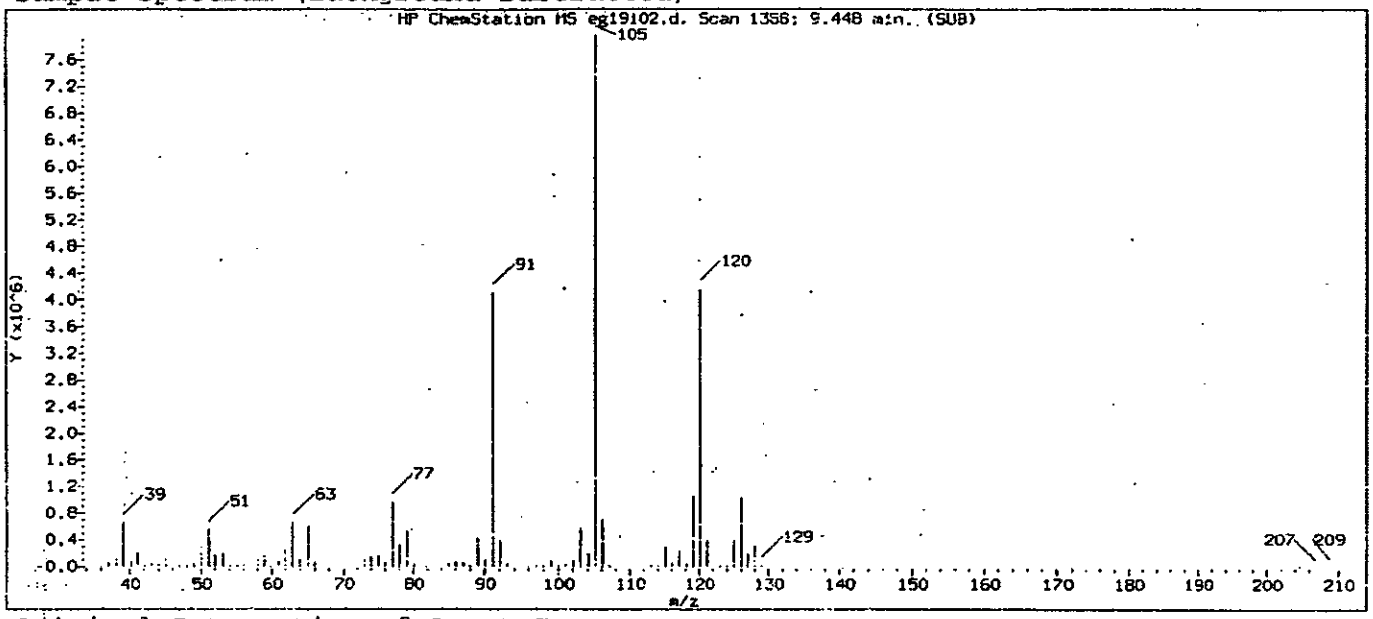
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

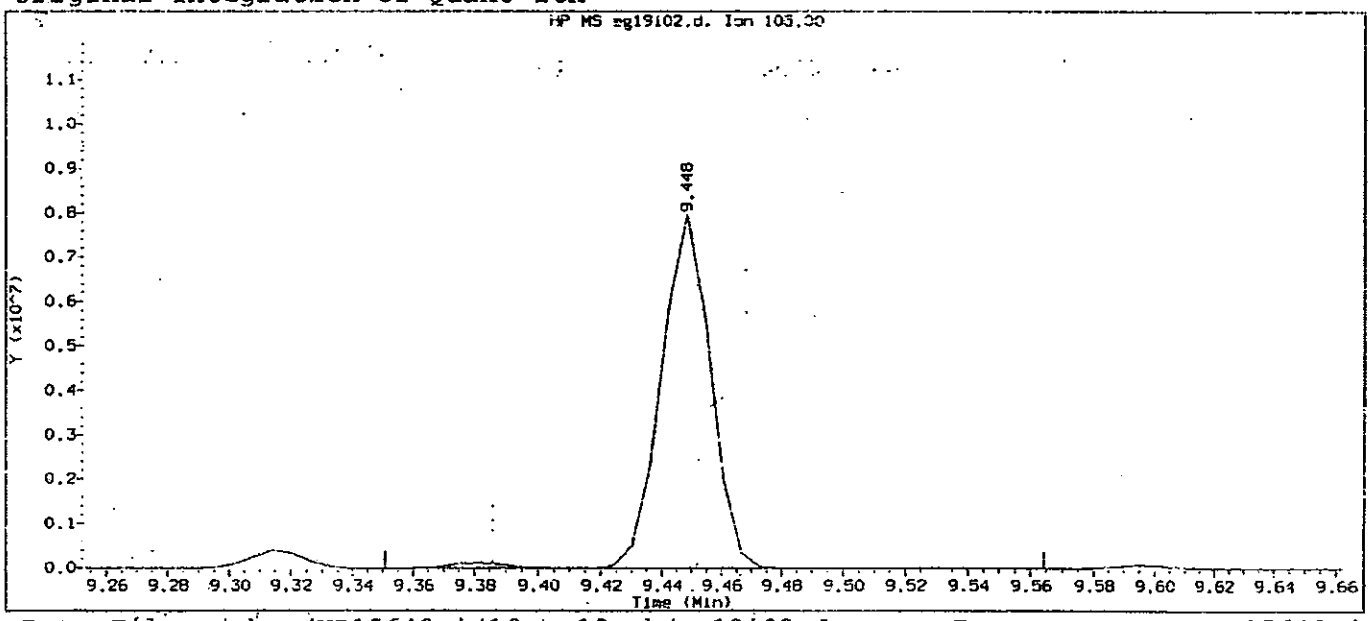
GC/MS audit/management approval: 8/20/10

PTL86 0285

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

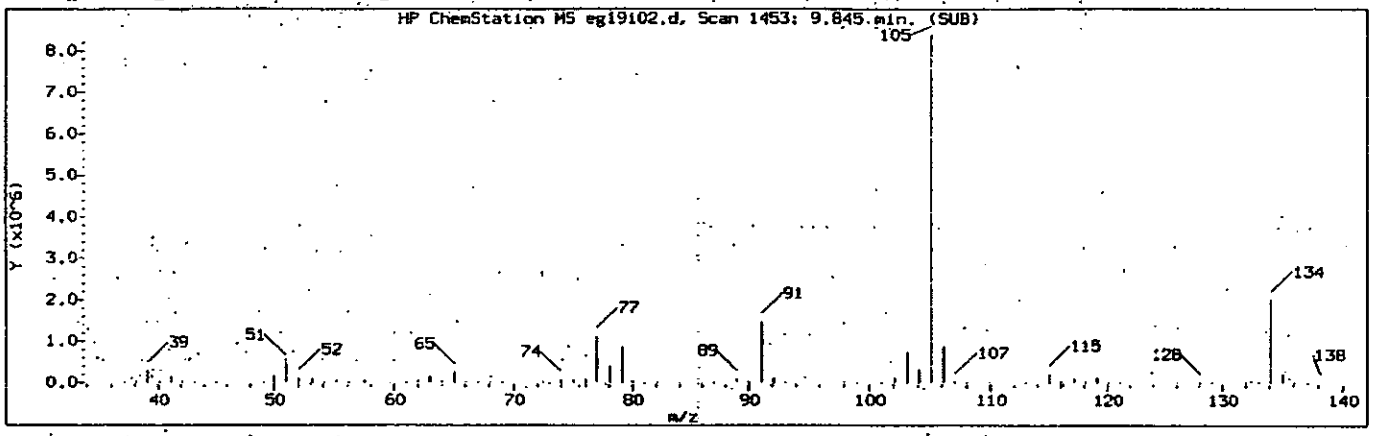
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 124
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1388
Retention Time (minutes): 9.448
Quant Ion : 105.00
Area : 9168180
On-column Amount (ng) : 313.6889
Integration start scan : 1371 Integration stop scan: 1406
Y at integration start : 0 Y at integration end: 0

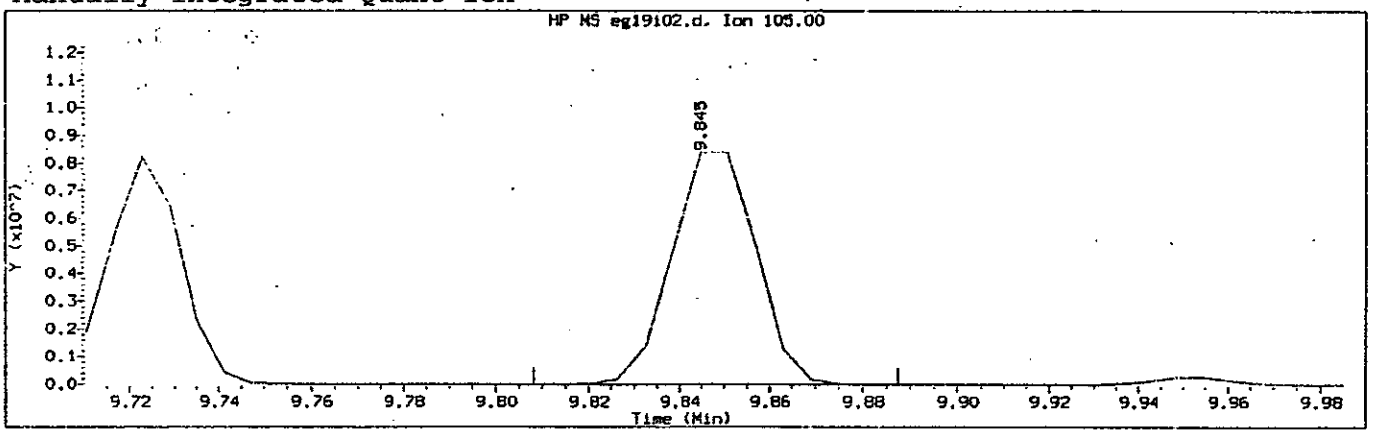
PTL06 0206

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 132
Compound Name : sec-Butylbenzene
Scan Number : 1453
Retention Time (minutes): 9.845
Quant Ion : 105.00
Area (flag) : 10944155M
On-Column Amount (ng) : 303.6343
Integration start scan : 1446 Integration stop scan: 1459
Y at integration start : 0 Y at integration end: 0

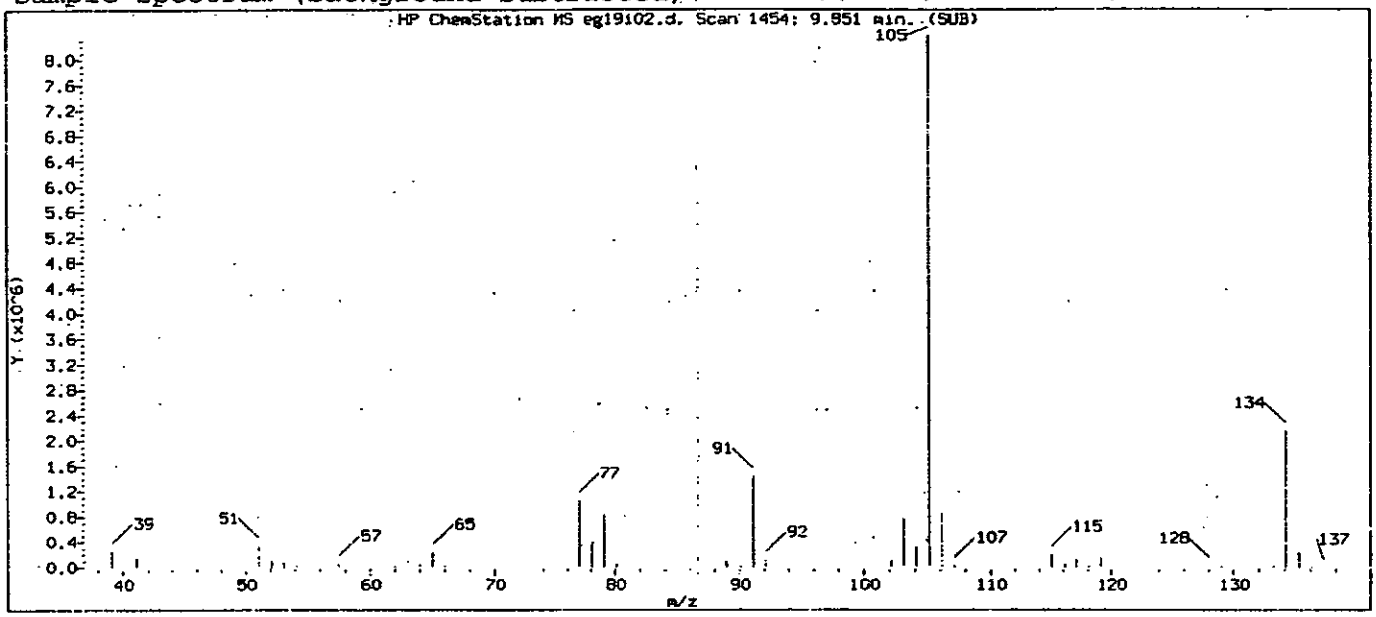
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

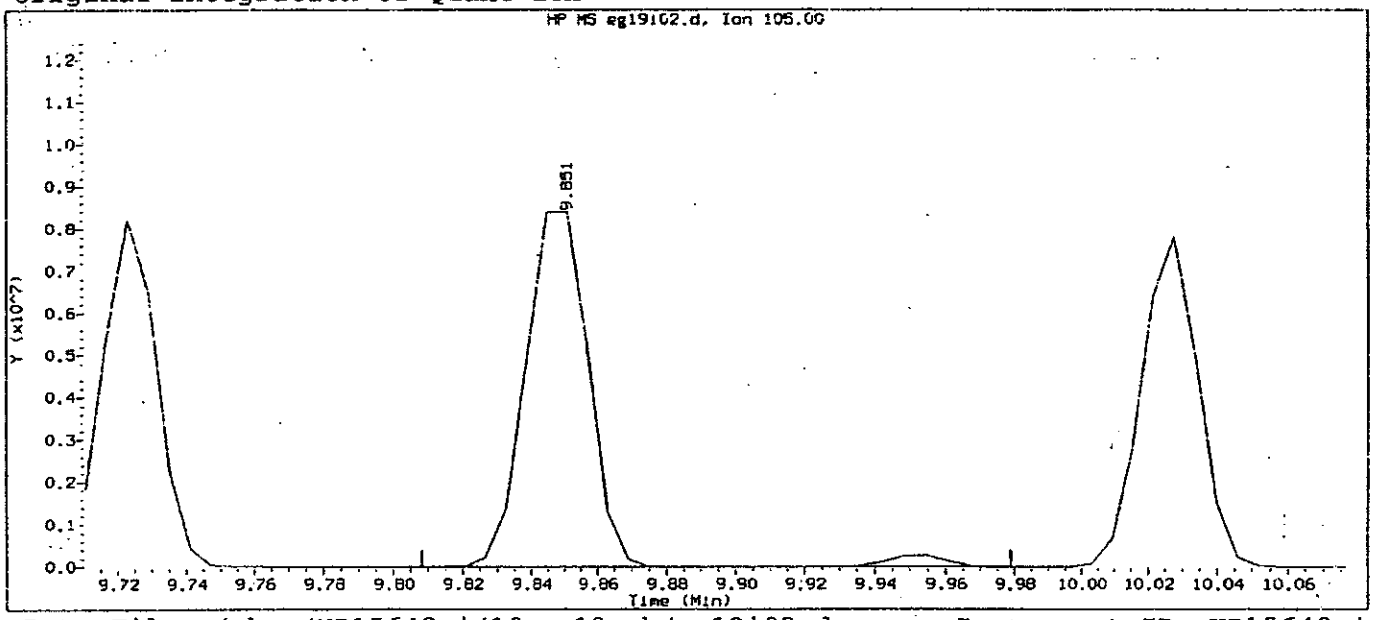
GC/MS audit/management approval 8/20/10

PTL86 0207

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

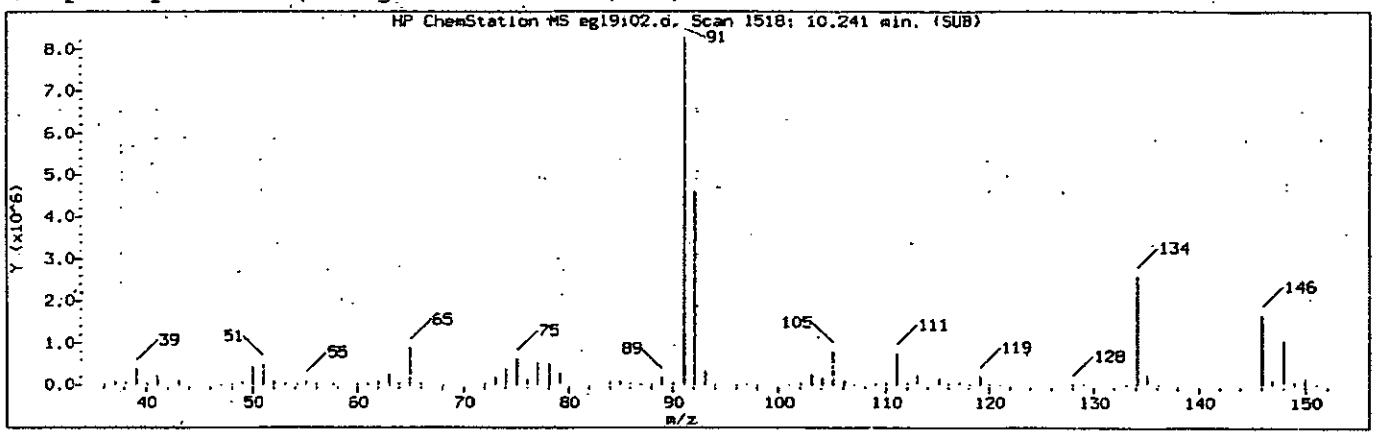
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 132
Compound Name : sec-Butylbenzene
Scan Number : 1454
Retention Time (minutes): 9.851
Quant Ion : 105.00
Area : 11270295
On-column Amount (ng) : 299.9658
Integration start scan : 1446 Integration stop scan: 1474
Y at integration start : 0 Y at integration end: 0

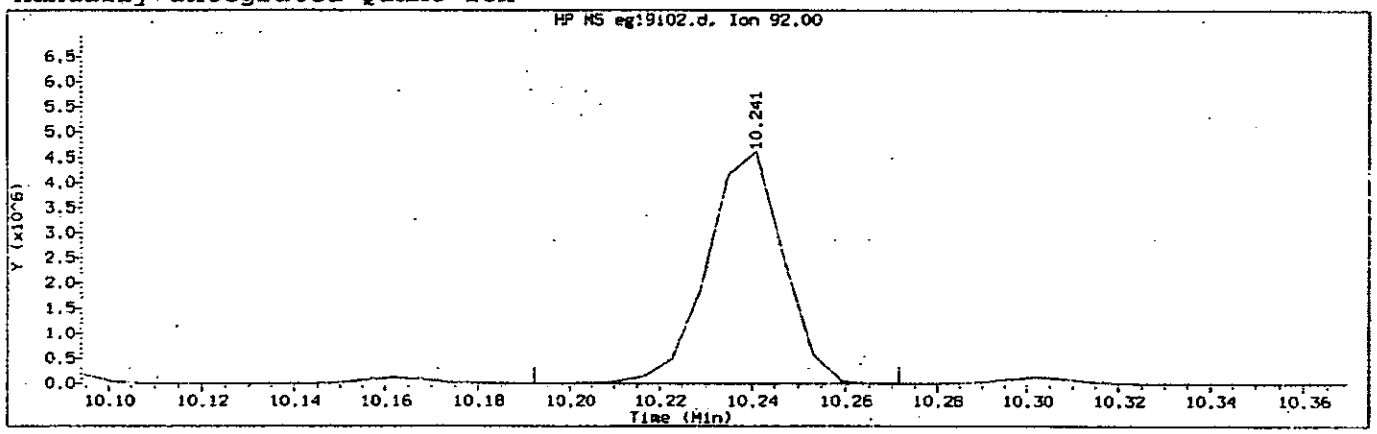
PTL06 0288

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 141
Compound Name : n-Butylbenzene
Scan Number : 1518
Retention Time (minutes): 10.241
Quant Ion : 92.00
Area (flag) : 5268925M
On-Column Amount (ng) : 335.9814
Integration start scan : 1509 Integration stop scan: 1522
Y at integration start : 0 Y at integration end: 0

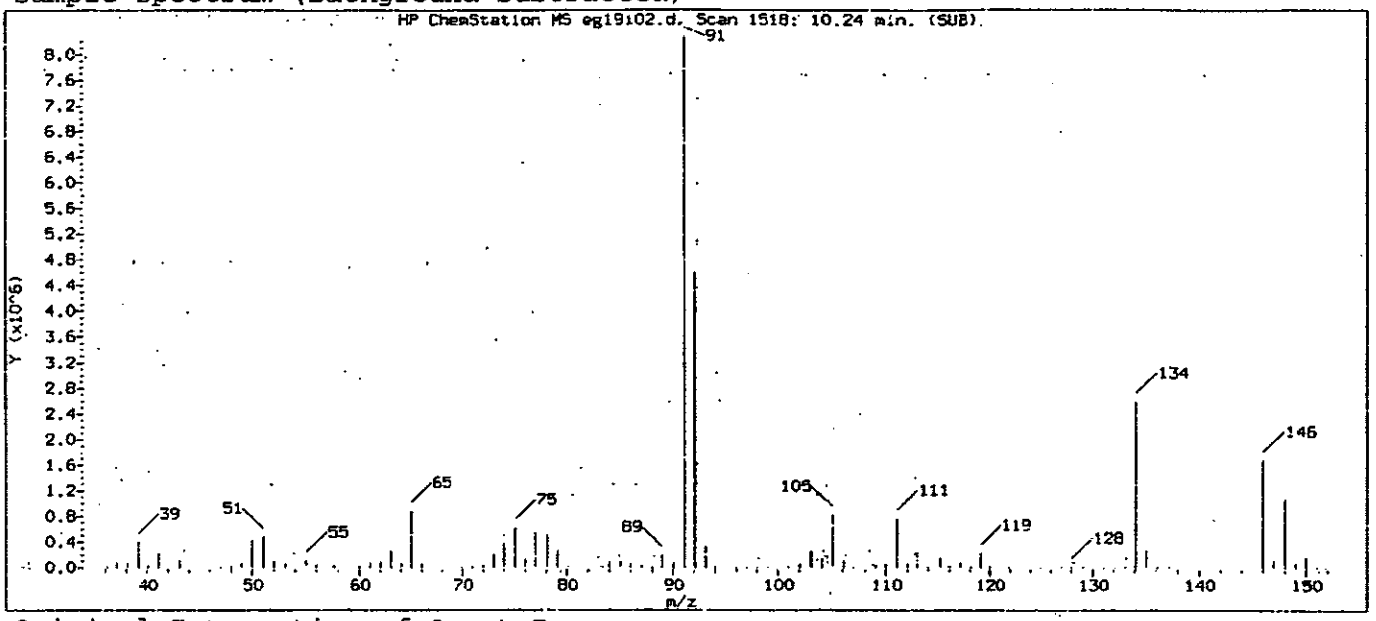
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3:5 esignature user ID: sej02002

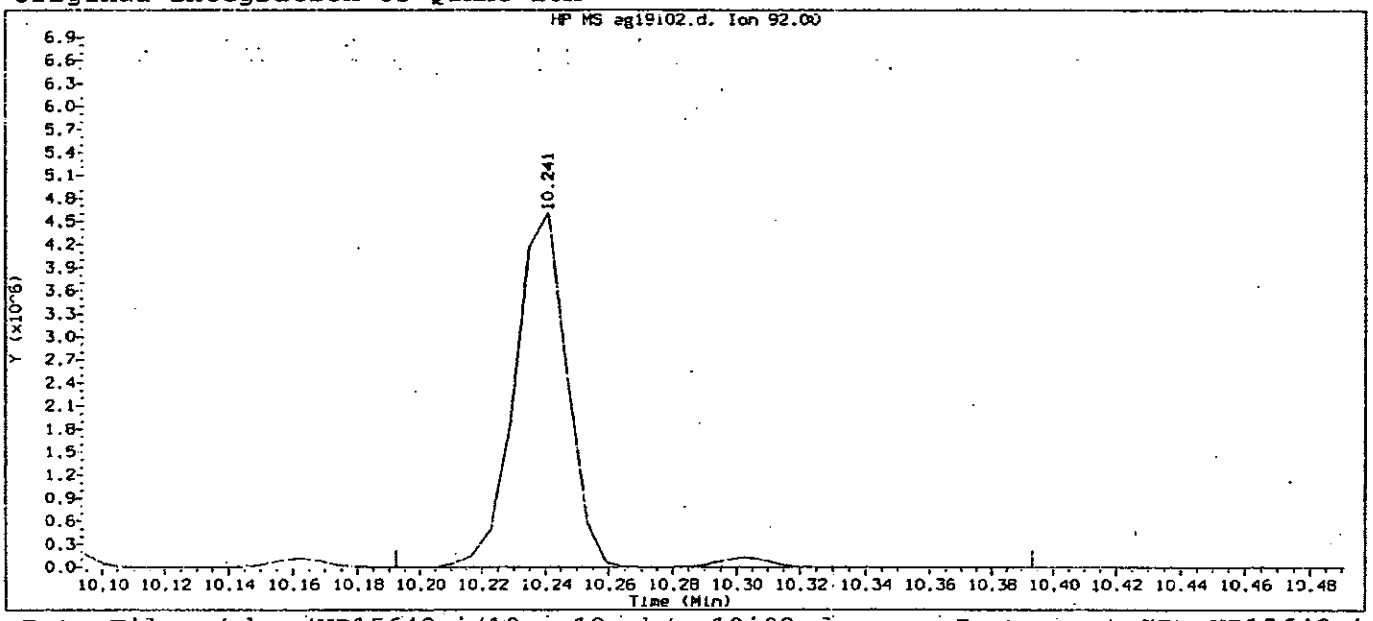
GC/MS audit/management approval: [illegible] 8/20/10

PTL06 8289

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

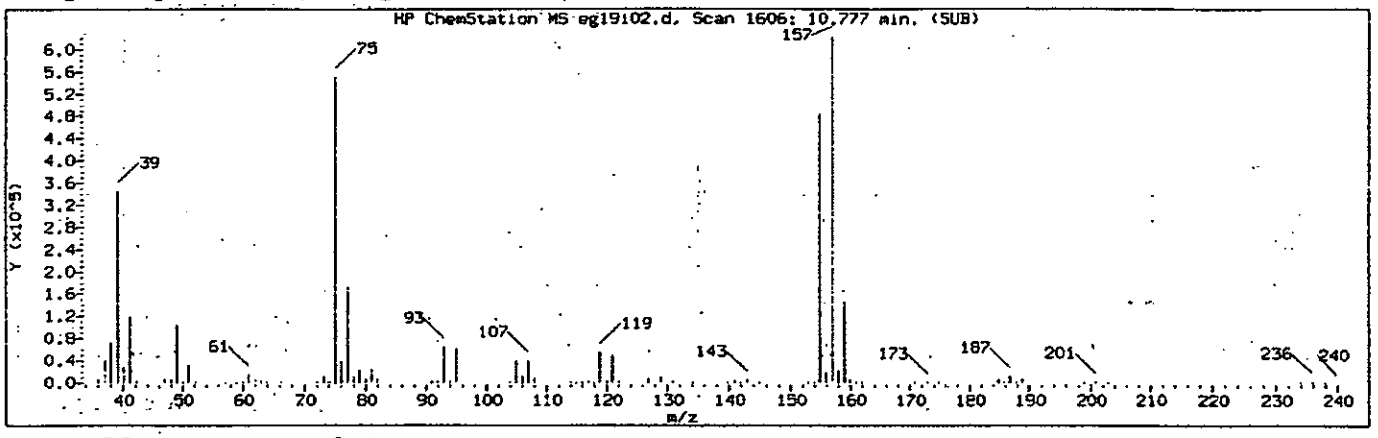
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 141
Compound Name : n-Butylbenzene
Scan Number : 1518
Retention Time (minutes): 10.241
Quant Ion : 92.00
Area : 5413715
On-column Amount (ng) : 313.0735
Integration start scan : 1509 Integration stop scan: 1542
Y at integration start : 0 Y at integration end: 0

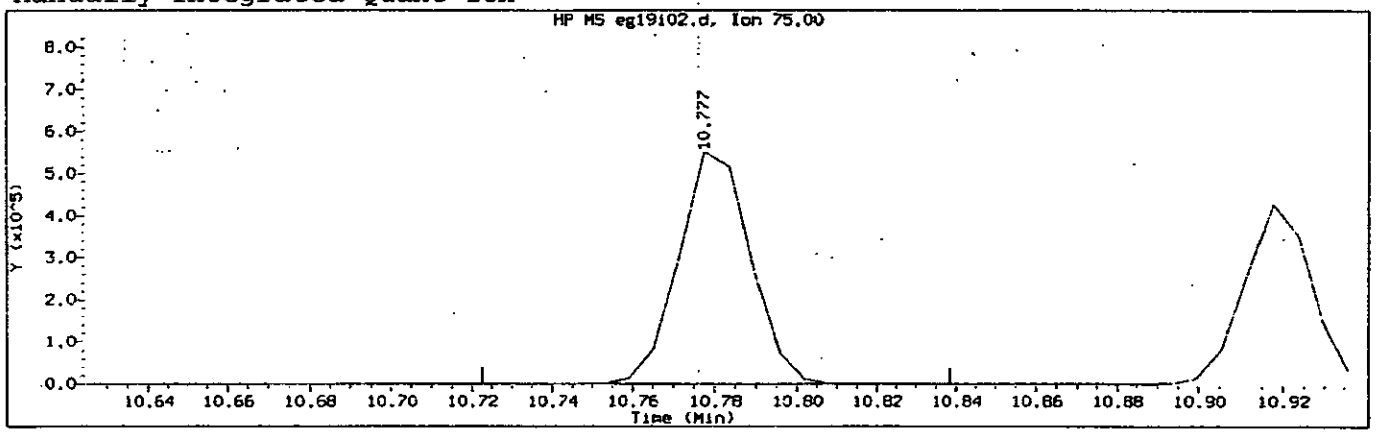
PTL86 8218

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD300 Lab Sample ID: VSTD300

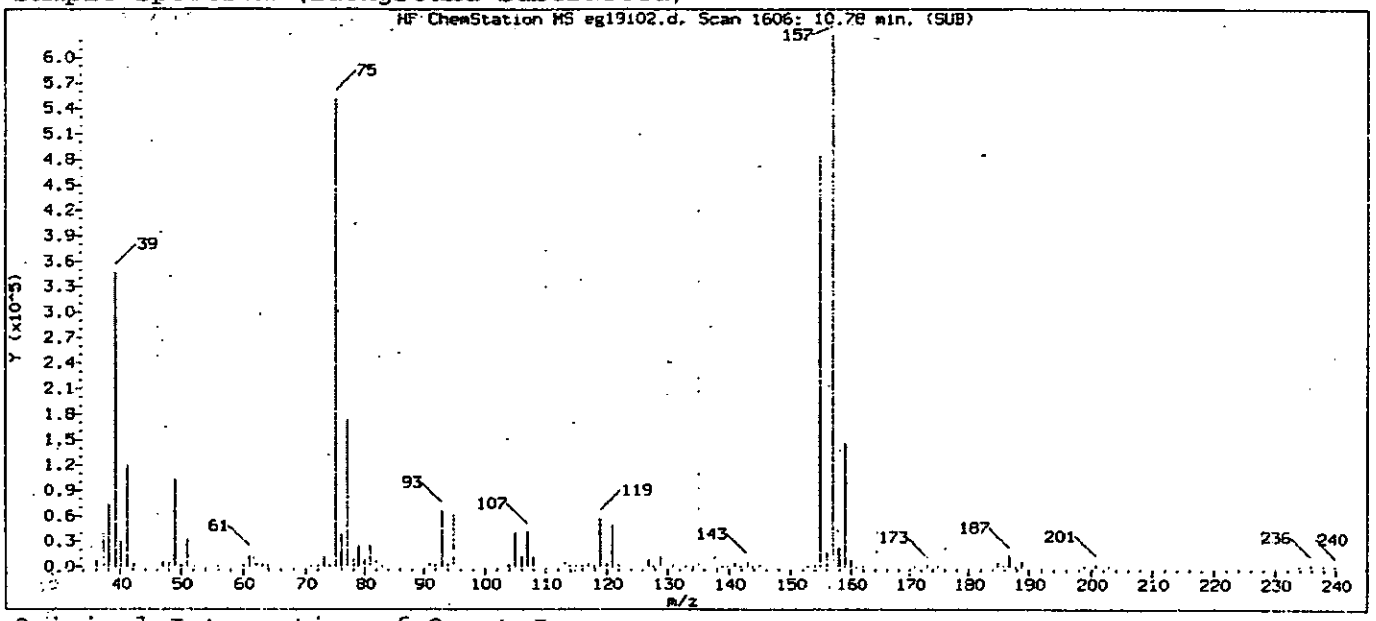
Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.777
Quant Ion : 75.00
Area (flag) : 662316M
On-Column Amount (ng) : 300.0630
Integration start scan : 1596 Integration stop scan: 1615
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

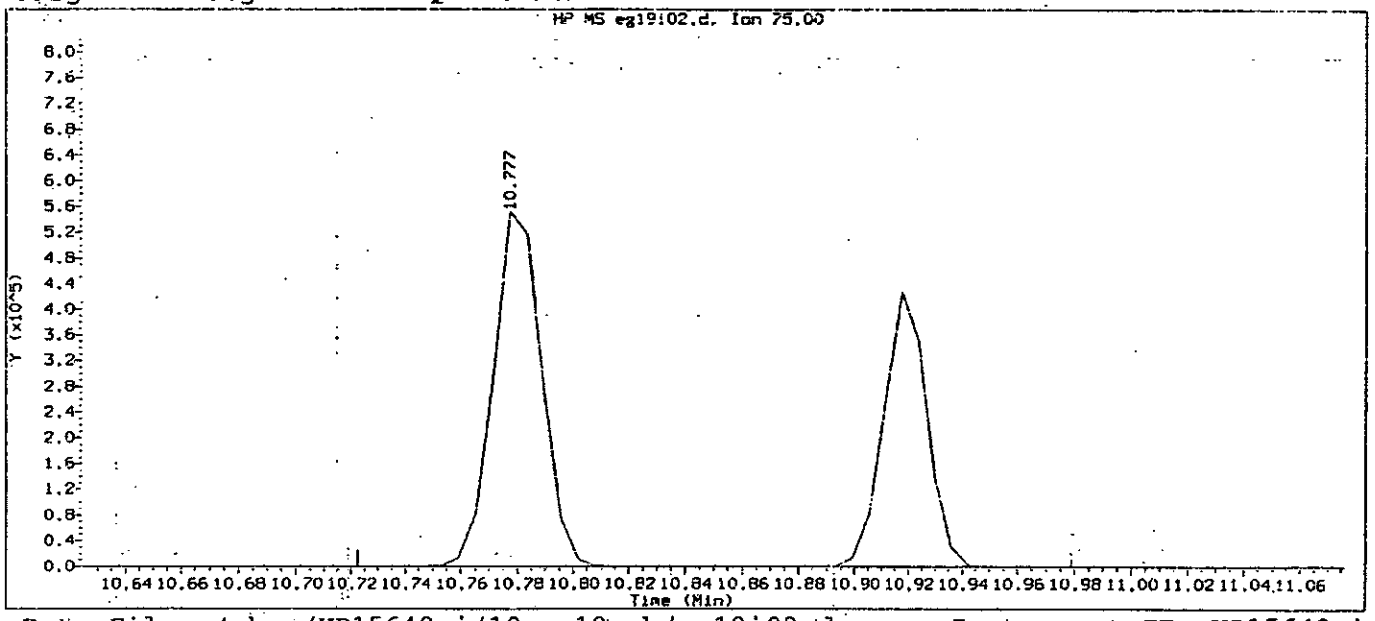
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [illegible] 8/20/10 PTL06 0211

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i02.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 14:47 Analyst ID: JML01693

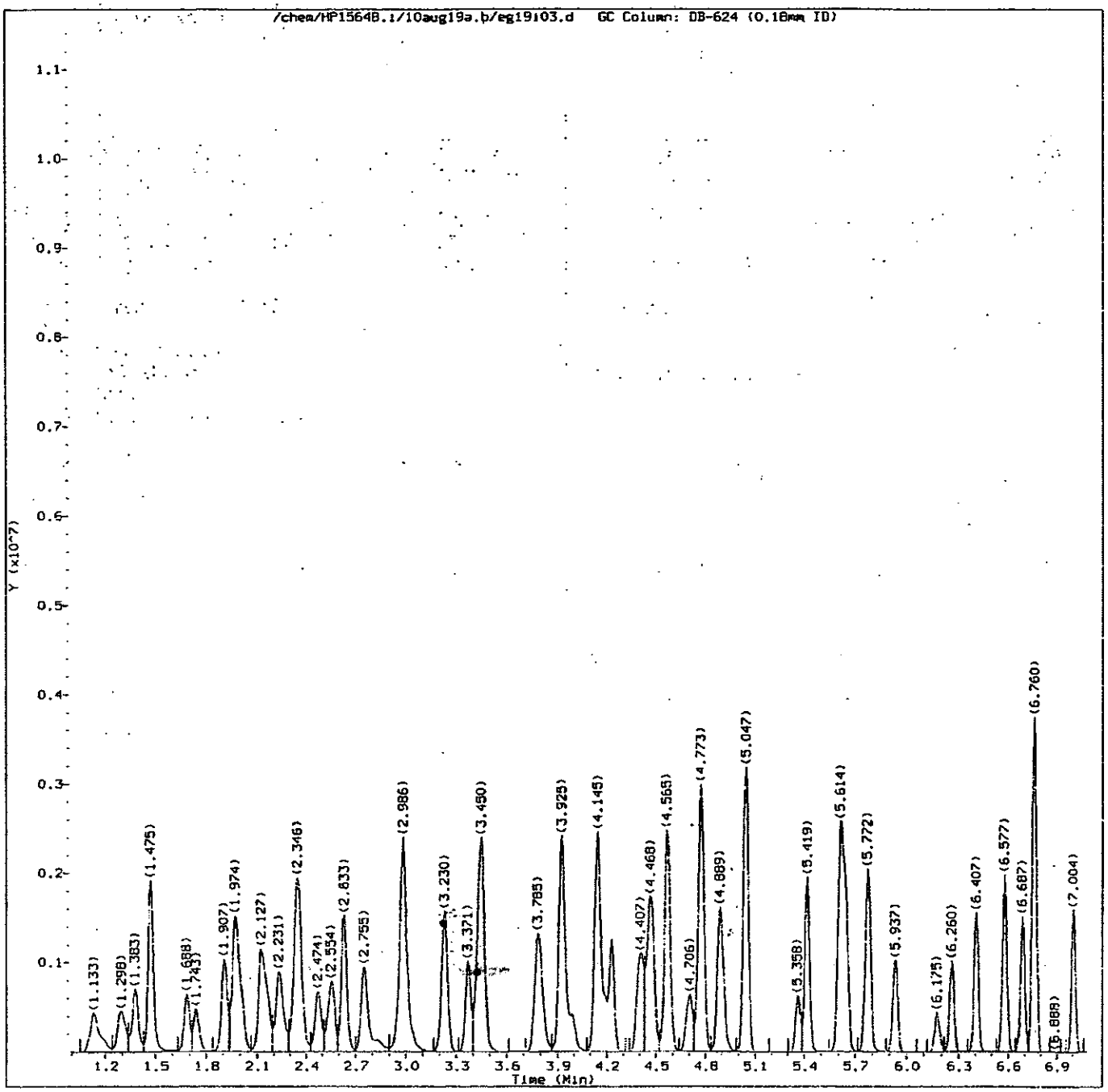
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.777
Quant Ion : 75.00
Area : 1141926
On-column Amount (ng) : 329.7033
Integration start scan : 1596 Integration stop scan: 1638
Y at integration start : 0 Y at integration end: 0

PTL06 0212

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

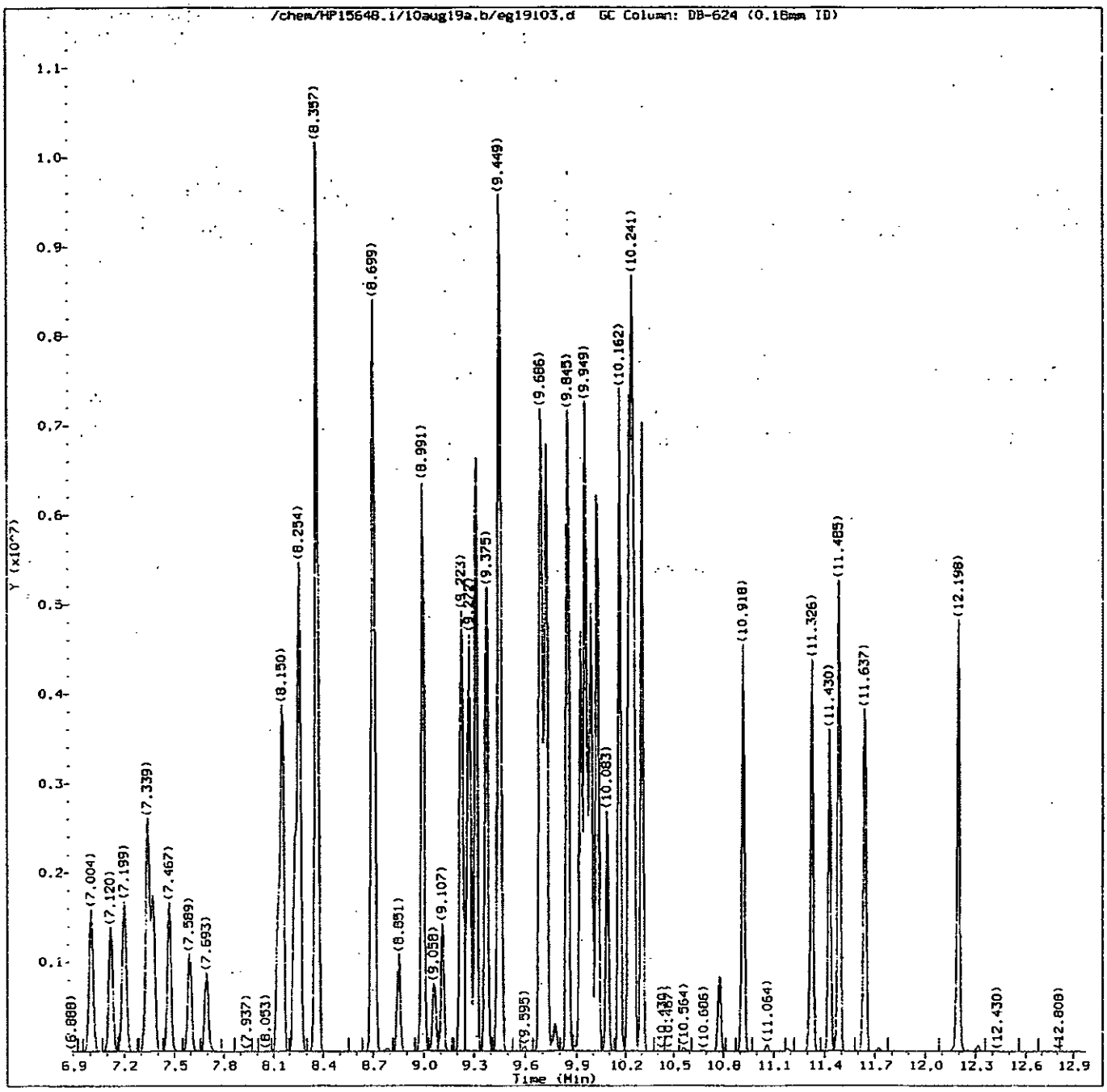
Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

PTL06 0213

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

PTL86 0214

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on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.298	85	954219	96.204
2) Chloromethane	(1)	1.383	50	971800	96.063
3) 1,3-Butadiene	(1)	1.475	39	618478	97.086
4) Vinyl Chloride	(1)	1.475	62	944362	96.564
5) Bromomethane	(1)	1.688	94	584213	94.330
6) Chloroethane	(1)	1.743	64	555612	96.132
7) Dichlorofluoromethane	(1)	1.907	67	1199840	95.054
8) Trichlorofluoromethane	(1)	1.974	101	1038326	96.948
9) n-Pentane	(1)	1.974	43	1151634	97.782
12) Ethyl Ether	(1)	2.121	59	548519	99.732
13) Freon 123a	(1)	2.151	67	755987	95.184
14) Acrolein	(4)	2.231	56	1491859	1014.206
15) 1,1-Dichloroethene	(1)	2.340	96	618667	96.805
17) Freon 113	(1)	2.352	101	637054	99.043
16) Acetone	(1)	2.359	43	362342M	178.336
18) Methyl Iodide	(1)	2.474	142	1027134	97.503
21) Carbon Disulfide	(1)	2.554	76	1714922	97.191
22) Allyl Chloride	(1)	2.627	41	997090	96.913
23) Methyl Acetate	(1)	2.639	43	482810M	89.090
24) Methylene Chloride	(1)	2.755	84	624319	93.406
25)*t-Butyl Alcohol-d10	(4)	2.761	65	128380	250.000
26) t-Butyl Alcohol	(4)	2.840	59	312911M	504.067
27) Acrylonitrile	(1)	2.956	53	279690	91.890
28) trans-1,2-Dichloroethene	(1)	2.986	96	652300	98.058
29) Methyl Tertiary Butyl Ether	(1)	2.993	73	1808531	98.480
31) n-Hexane	(1)	3.230	57	1049814	101.612
33) 1,1-Dichloroethane	(1)	3.371	63	1164996	97.857
34) di-Isopropyl Ether	(1)	3.438	45	1994507	99.439
35) 2-Chloro-1,3-Butadiene	(1)	3.456	53	914243	98.705
36) 1,2-Dichloroethene (total)	(1)		96	1344935	196.669
37) Ethyl t-Butyl Ether	(1)	3.785	59	1856698M	99.164
39) cis-1,2-Dichloroethene	(1)	3.919	96	692635	98.611
40) 2-Butanone	(1)	3.931	43	659042	193.315
41) 2,2-Dichloropropane	(1)	3.931	77	871431	98.152
42) Propionitrile	(4)	3.992	54	526366	501.790
44) Methacrylonitrile	(1)	4.139	67	777862	245.740
45) Bromochloromethane	(1)	4.151	128	324093	97.131
46) Tetrahydrofuran	(4)	4.194	71	194882	201.435
47) Chloroform	(1)	4.230	83	1035237	98.186

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50)$Dibromofluoromethane	(1)	4.383	113	250436	49.650
51)$Dibromofluoromethane(mz111)	(1)	4.389	111	258652	49.963
52) 1,1,1-Trichloroethane	(1)	4.413	97	954161	93.953
53) Cyclohexane	(1)	4.468	56	1246877	100.007
55) 1,1-Dichloropropene	(1)	4.565	75	946052	98.583
56) Carbon Tetrachloride	(1)	4.572	117	738775	100.230
58) Isobutyl Alcohol	(4)	4.693	41	263349	1252.312
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.712	104	43810	50.800
59)$1,2-Dichloroethane-d4	(1)	4.712	102	66196	49.426
63) Benzene	(1)	4.773	78	2679244	97.615
65) 1,2-Dichloroethane	(1)	4.791	62	763848	97.245
67) t-Amyl Methyl Ether	(1)	4.889	73	1817488	100.027
68) n-Heptane	(1)	5.041	43	1071241	104.223
69)*Fluorobenzene	(1)	5.047	96	1128073	50.000
71) n-Butanol	(4)	5.358	56	485643	2506.808
72) Trichloroethene	(1)	5.419	95	685291	97.119
74) Methylcyclohexane	(1)	5.614	83	1309217	100.173
76) 1,2-Dichloropropane	(1)	5.644	63	686835	98.943
78) Dibromomethane	(1)	5.766	93	390691	98.807
79) Methyl Methacrylate	(1)	5.779	69	568646	97.670
80) 1,4-Dioxane	(4)	5.785	88	79066	1285.861
81) Bromodichloromethane	(1)	5.937	83	747658	100.582
82) 2-Nitropropane	(1)	6.175	41	272992	196.985
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	476714	100.492
87) cis-1,3-Dichloropropene	(1)	6.407	75	989940	100.415
88) 4-Methyl-2-Pentanone	(1)	6.577	43	1442764	190.615
90)$Toluene-d8	(2)	6.687	98	1123089	50.143
89)$Toluene-d8(mz100)	(2)	6.687	100	726530	50.153
91) Toluene	(2)	6.760	92	1739187	97.931
92) trans-1,3-Dichloropropene	(2)	7.004	75	928727	102.278
93) Ethyl Methacrylate	(2)	7.120	69	767363	102.169
94) 1,1,2-Trichloroethane	(2)	7.199	97	563586	98.279
96) Tetrachloroethene	(2)	7.339	166	804887	97.477
97) 1,3-Dichloropropane	(2)	7.370	76	999007	98.640
98) 2-Hexanone	(2)	7.467	43	1013890	195.858
100) Dibromochloromethane	(2)	7.595	129	574141	102.676
101) 1,2-Dibromoethane	(2)	7.693	107	579225	99.324
103)*Chlorobenzene-d5	(2)	8.126	117	809938	50.000
104) Chlorobenzene	(2)	8.150	112	1904283	99.055

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

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
105) Xylene (Total)	(2)		106	3945102	298.262
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	581710	101.595
107) Ethylbenzene	(2)	8.254	91	3384343	99.458
108) m+p-Xylene	(2)	8.363	106	2660092	198.959
110) o-Xylene	(2)	8.693	106	1285010	99.303
111) Styrene	(2)	8.705	104	2095415	102.555
112) Bromoform	(2)	8.851	173	428849	104.606
113) Isopropylbenzene	(2)	8.991	105	3425788	100.577
115) Cyclohexanone	(4)	9.058	55	267970	1261.065
116)$4-Bromofluorobenzene	(2)	9.107	95	393866	49.568
117)$4-Bromofluorobenzene(mz174)	(2)	9.113	174	341369	49.975
118) Bromobenzene	(3)	9.223	156	777639	99.099
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	830956	97.257
120) 1,2,3-Trichloropropane	(3)	9.260	110	241722	95.907
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	633597M	247.434
122) n-Propylbenzene	(3)	9.315	91	4088321M	101.668
123) 2-Chlorotoluene	(3)	9.375	126	799325	99.683
124) 1,3,5-Trimethylbenzene	(3)	9.449	105	2792524	101.680
125) 4-Chlorotoluene	(3)	9.455	126	810739	99.772
127) tert-Butylbenzene	(3)	9.686	134	681917M	99.808
128) Pentachloroethane	(3)	9.699	167	423198	103.502
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	2879912	101.148
132) sec-Butylbenzene	(3)	9.845	105	3761916	104.251
133) 1,3-Dichlorobenzene	(3)	9.924	146	1509751M	99.356
134) p-Isopropyltoluene	(3)	9.949	119	3245455	103.446
135)*1,4-Dichlorobenzene-d4	(3)	9.973	152	443346	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	1534871	99.849
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	2791145	100.087
138) Benzyl Chloride	(3)	10.083	91	1501219	99.128
139) 1,3-Diethylbenzene	(3)	10.162	105	1844780	101.945
140) 1,4-Diethylbenzene	(3)	10.217	105	1698990	100.966
141) n-Butylbenzene	(3)	10.235	92	1611317M	102.631
142) 1,2-Dichlorobenzene	(3)	10.247	146	1446724	99.527
143) 1,2-Diethylbenzene	(3)	10.302	105	1704315	101.024
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	160185M	97.836
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	1081197	102.171
147) Hexachlorobutadiene	(3)	11.430	225	516617	104.905
148) Naphthalene	(3)	11.485	128	3067762	100.555
149) 1,2,3-Trichlorobenzene	(3)	11.643	180	1004953	102.342

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0217

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on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d
Injection date and time: 19-AUG-2010 15:07

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100

Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
152) 2-Methylnaphthalene	(3)	12.198	142	1770929	109.870

PTL86 8218

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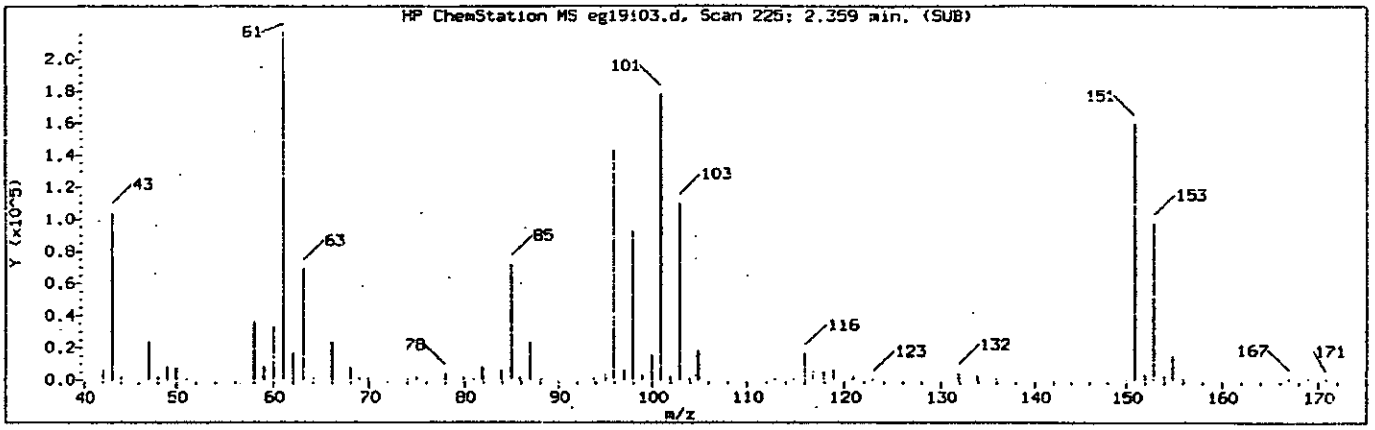
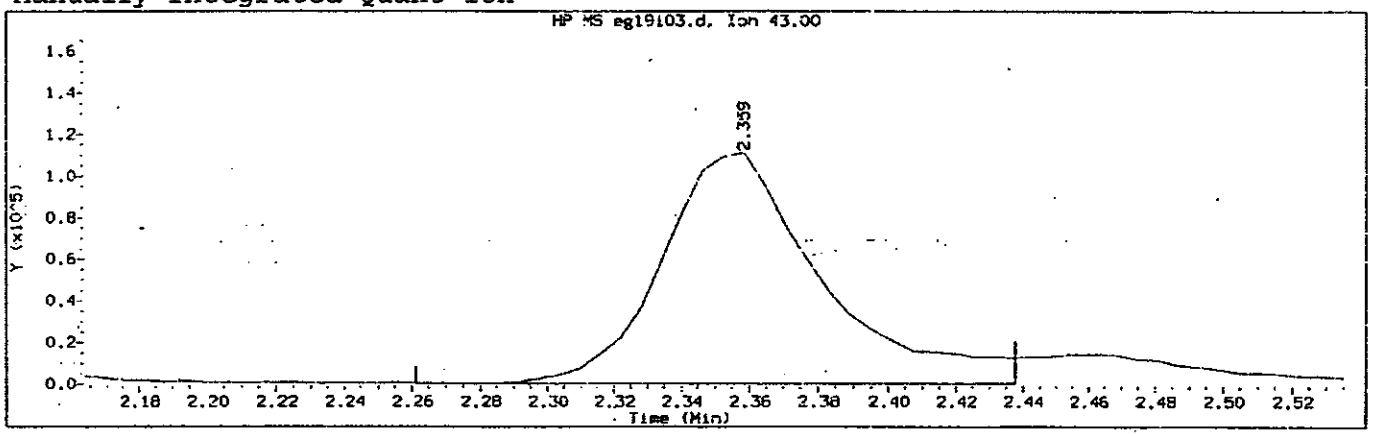
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

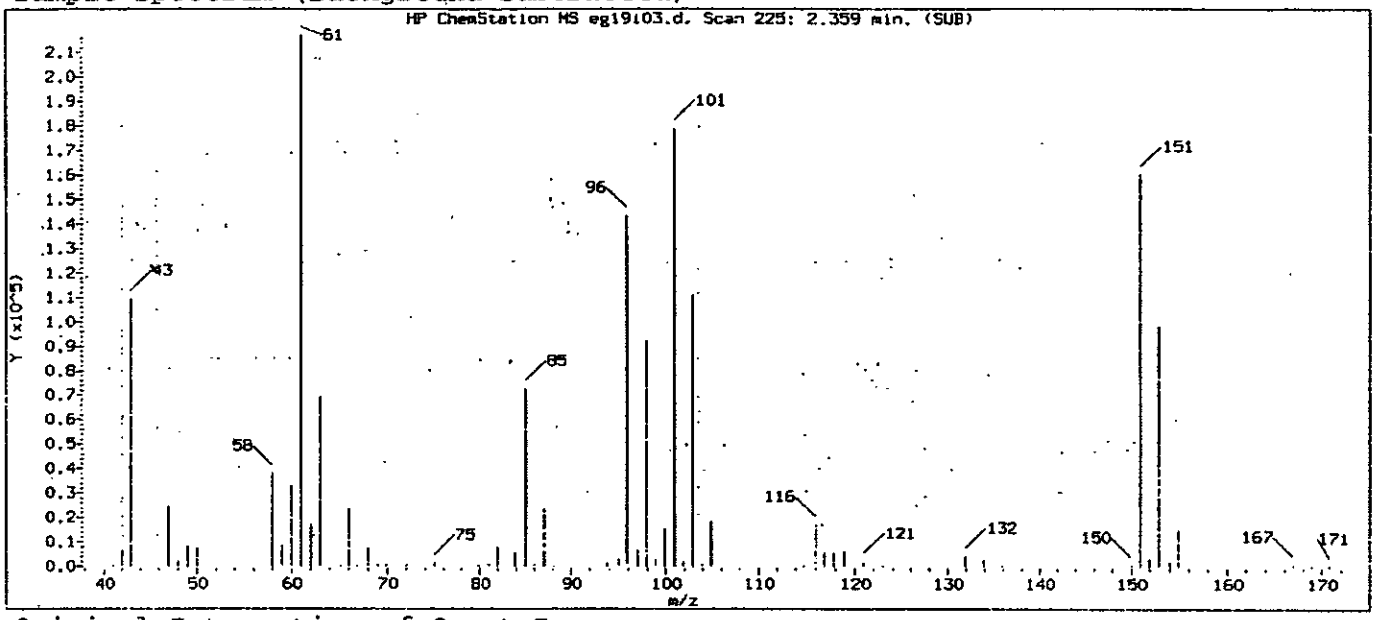
Compound Number	: 16		
Compound Name	: Acetone		
Scan Number	: 225		
Retention Time (minutes)	: 2.359		
Quant Ion	: 43.00		
Area (flag)	: 362342M		
On-Column Amount (ng)	: 178.3359		
Integration start scan	: 208	Integration stop scan:	237
Y at integration start	: 296	Y at integration end:	296

Reason for manual integration: improper integration

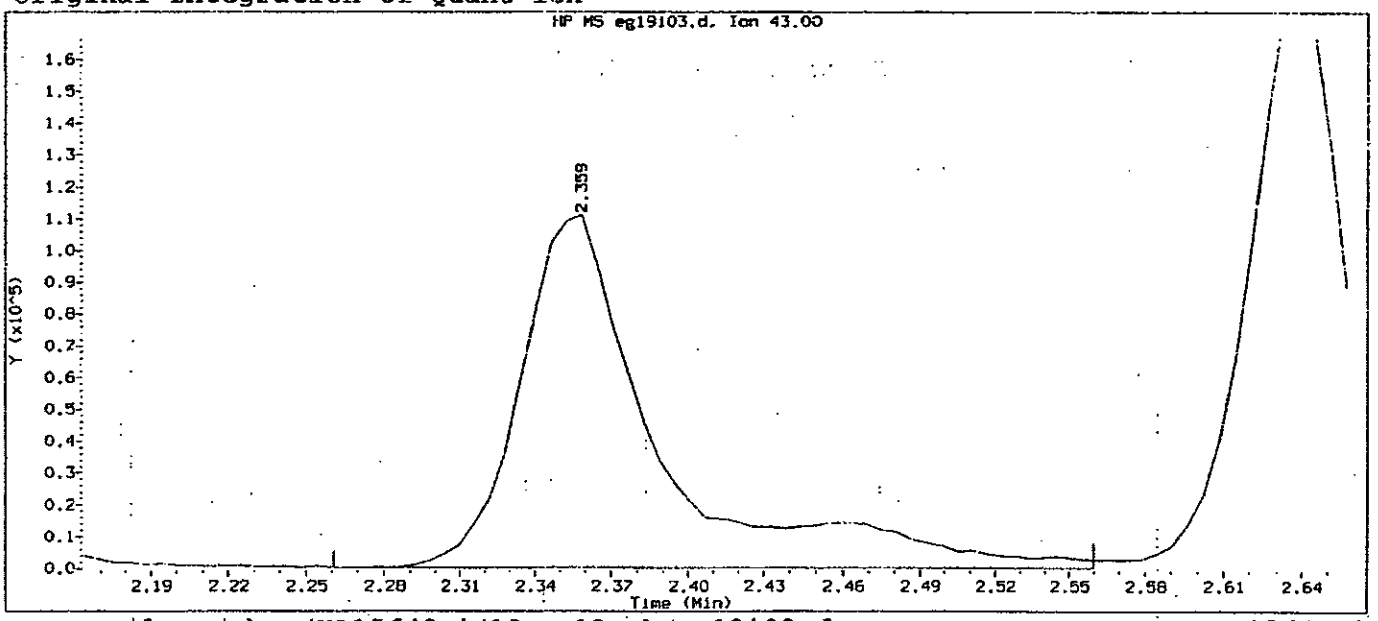
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [illegible] 8/20/10 PTL06 6219

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

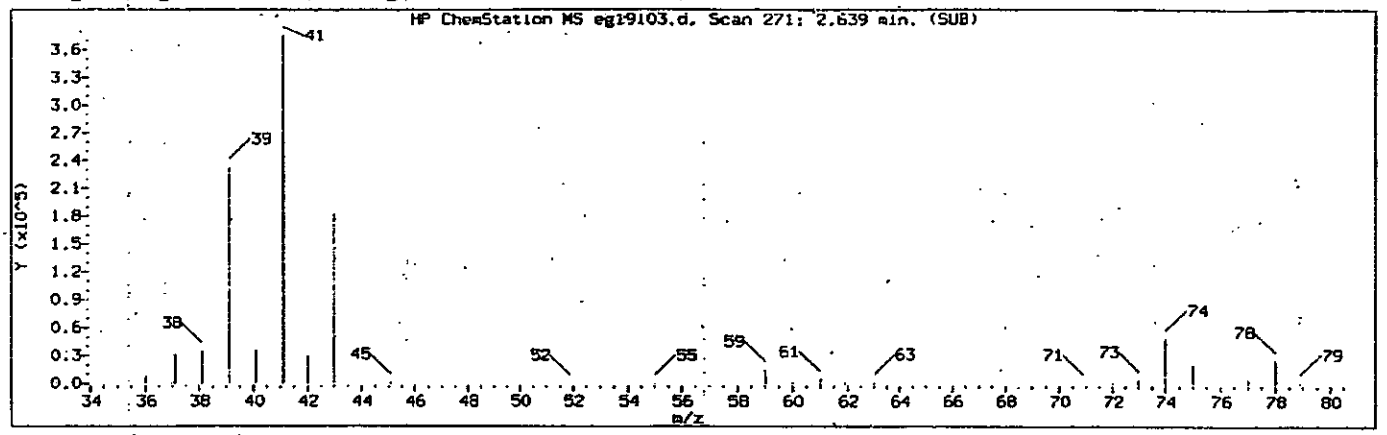
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 16
Compound Name : Acetone
Scan Number : 225
Retention Time (minutes): 2.359
Quant Ion : 43.00
Area : 418124
On-column Amount (ng) : 181.0616
Integration start scan : 208 Integration stop scan: 257
Y at integration start : 296 Y at integration end: 296

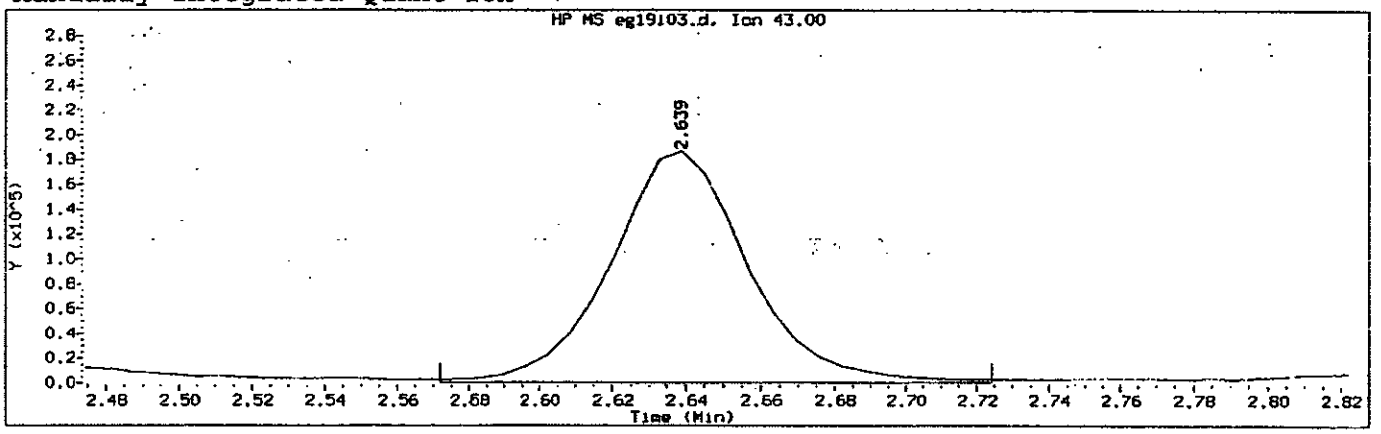
PTL06 8228

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 23		
Compound Name	: Methyl Acetate		
Scan Number	: 271		
Retention Time (minutes)	: 2.639		
Quant Ion	: 43.00		
Area (flag)	: 482810M		
On-Column Amount (ng)	: 89.0904		
Integration start scan	: 259	Integration stop scan:	284
Y at integration start	: 421	Y at integration end:	421

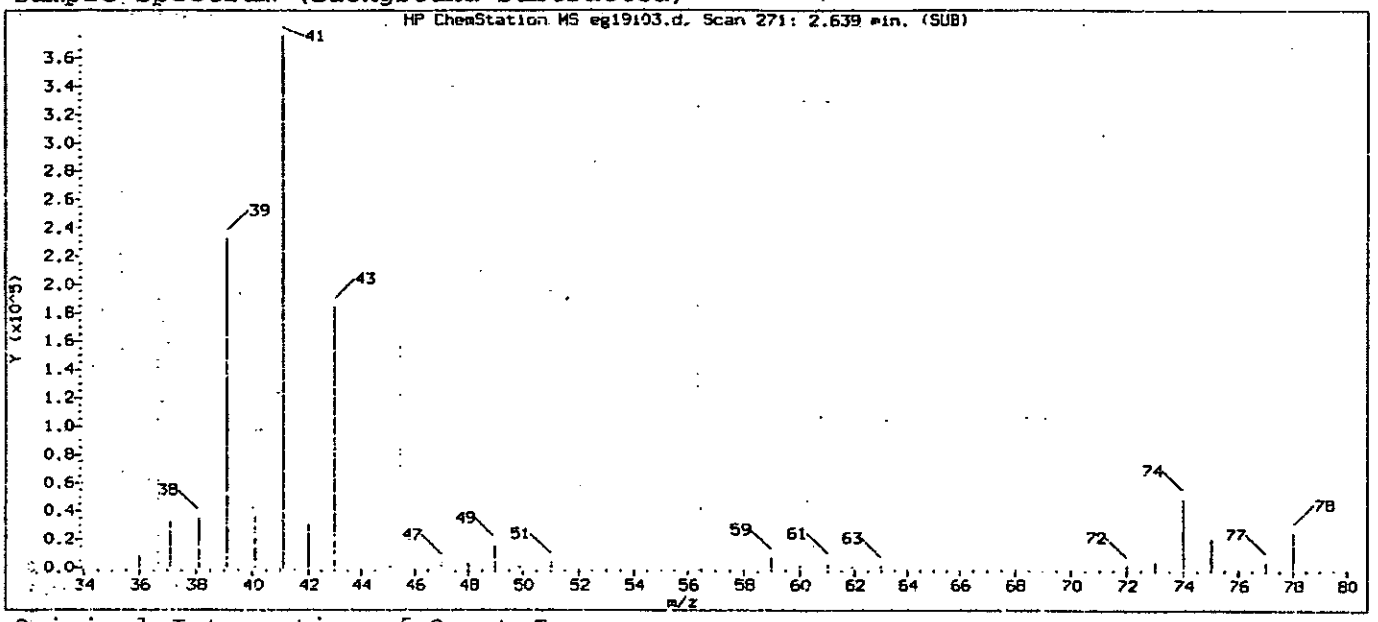
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

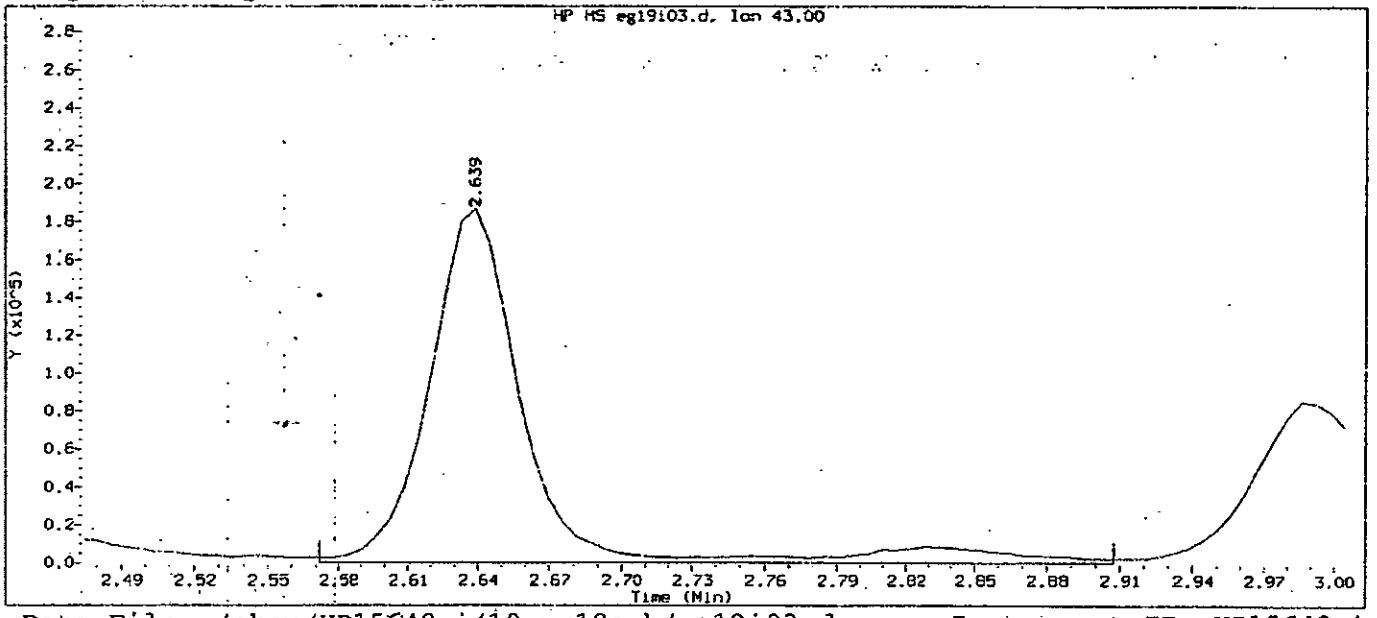
GC/MS audit/management approval: [illegible] 8/20/10

PTL06 0221

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

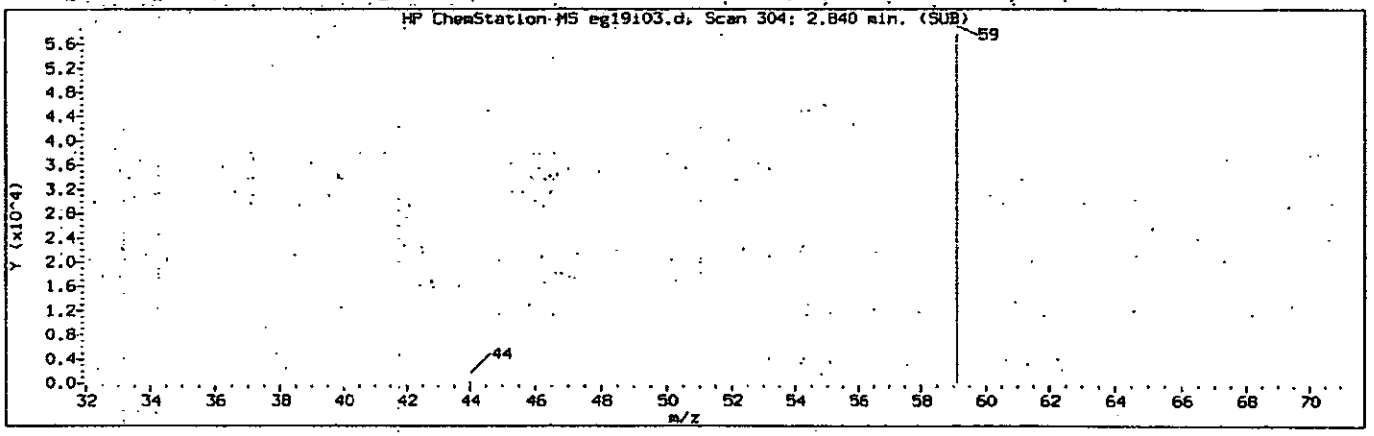
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 23
Compound Name : Methyl Acetate
Scan Number : 271
Retention Time (minutes): 2.639
Quant Ion : 43.00
Area : 528990
On-column Amount (ng) : 82.5910
Integration start scan : 259 Integration stop scan: 314
Y at integration start : 421 Y at integration end: 421

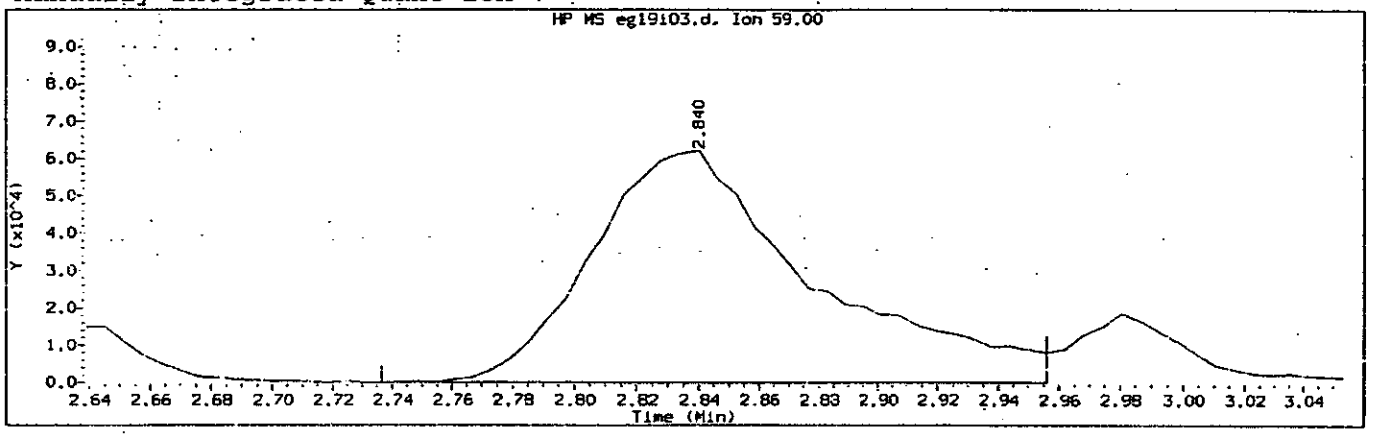
FTL86 0222

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 26		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 304		
Retention Time (minutes)	: 2.840		
Quant Ion	: 59.00		
Area (flag)	: 312911M		
On-Column Amount (ng)	: 504.0673		
Integration start scan	: 286	Integration stop scan:	322
Y at integration start	: 0	Y at integration end:	0

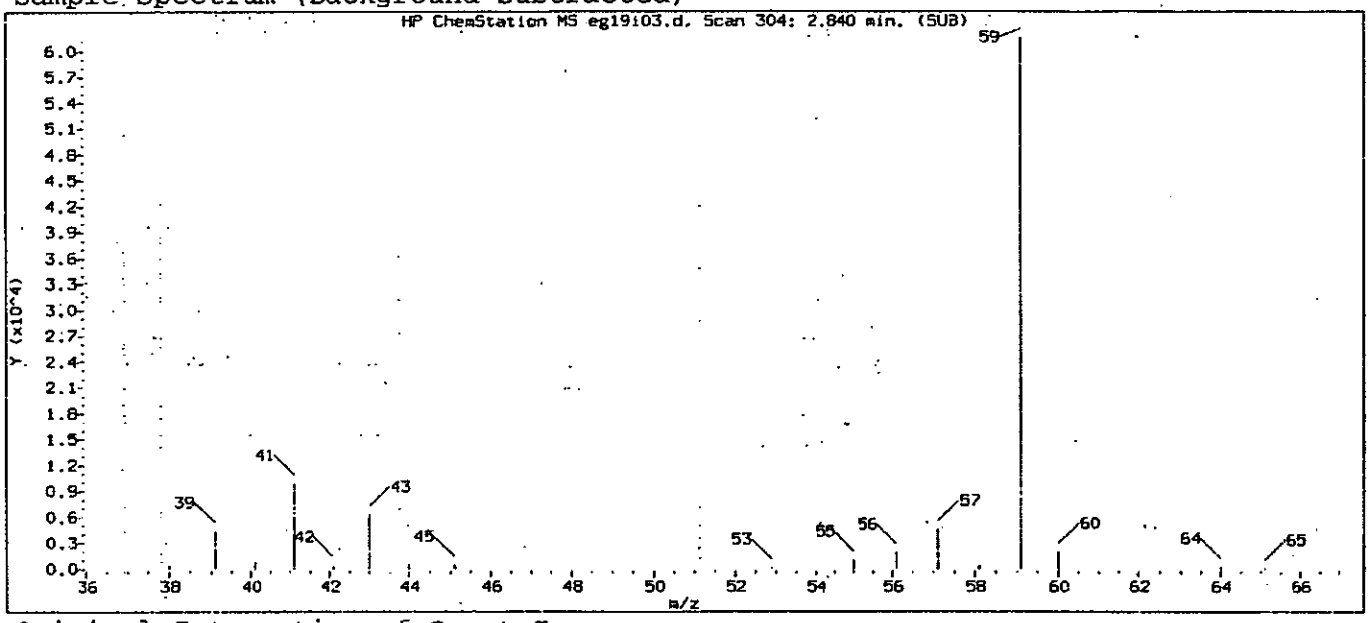
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

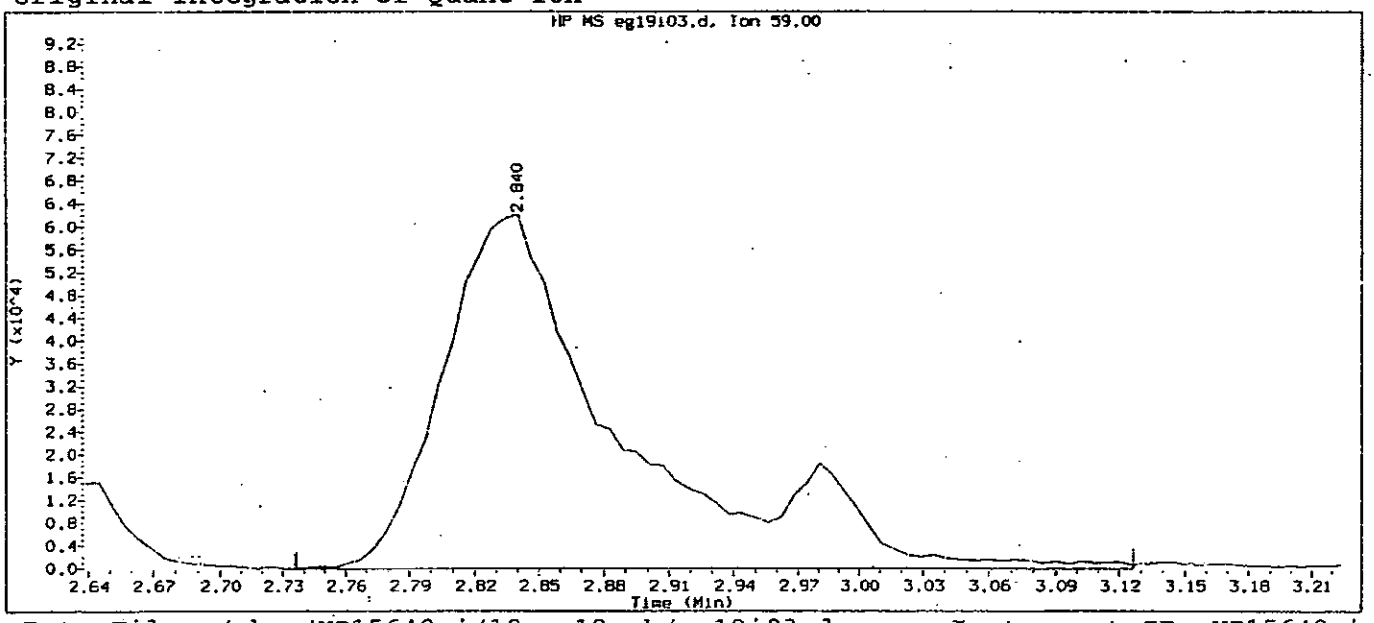
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8223

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

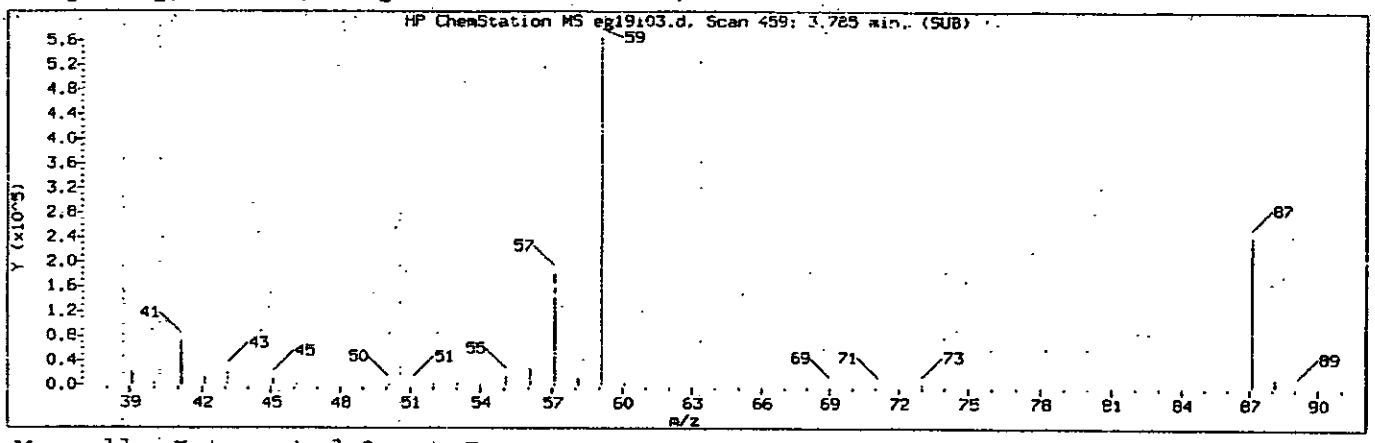
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 304
Retention Time (minutes): 2.840
Quant Ion : 59.00
Area : 362839
On-column Amount (ng) : 489.9113
Integration start scan : 286 Integration stop scan: 350
Y at integration start : 0 Y at integration end: 0

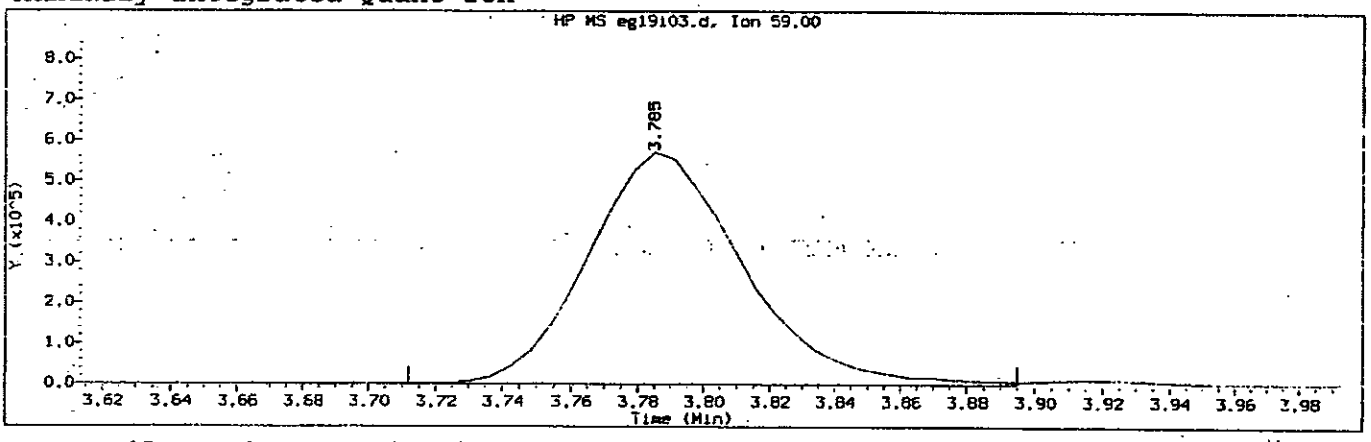
PTL86 0224

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 37		
Compound Name	: Ethyl t-Butyl Ether		
Scan Number	: 459		
Retention Time (minutes)	: 3.785		
Quant Ion	: 59.00		
Area (flag)	: 1856698M		
On-Column Amount (ng)	: 99.1636		
Integration start scan	: 446	Integration stop scan:	476
Y at integration start	: 0	Y at integration end:	0

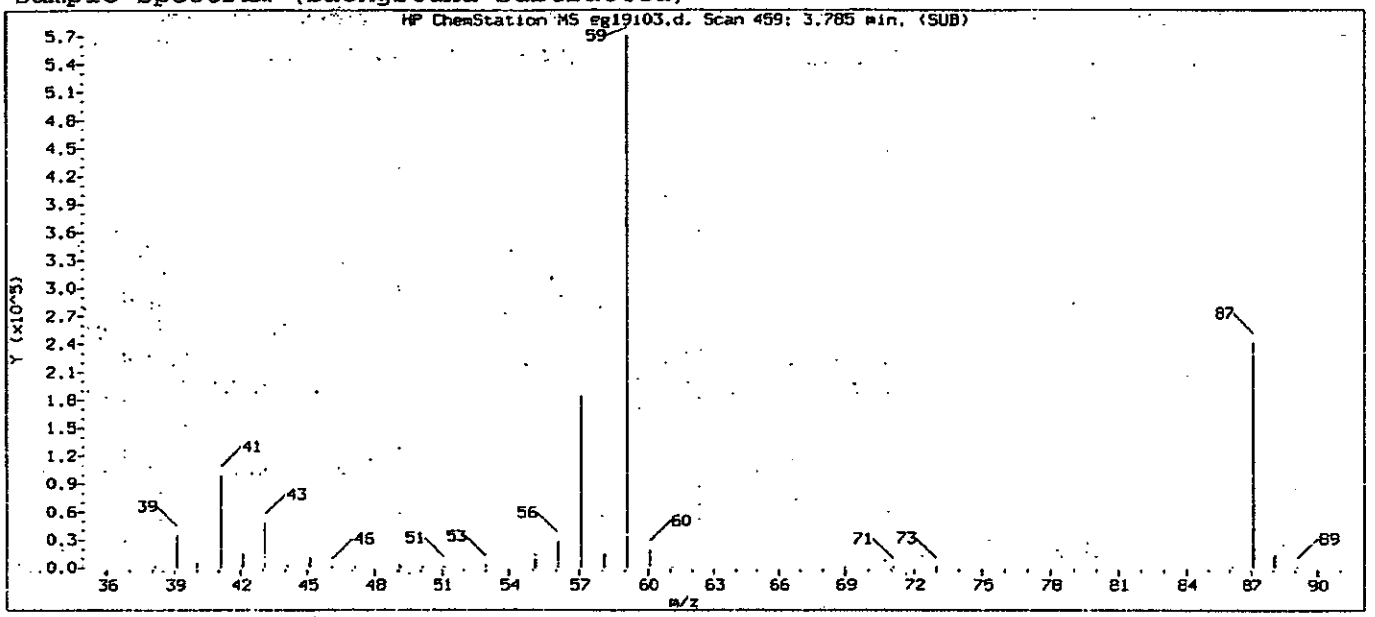
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

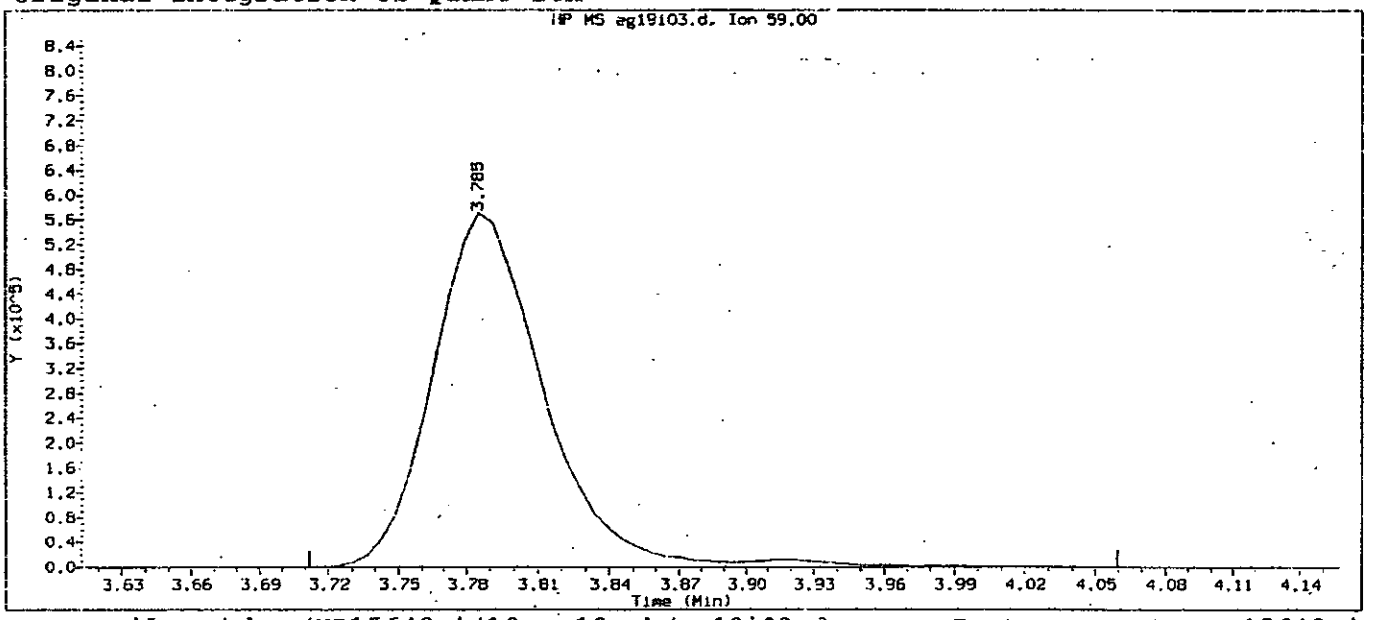
GC/MS audit/management approval: [illegible] 8/20/10

PTL06 0225

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

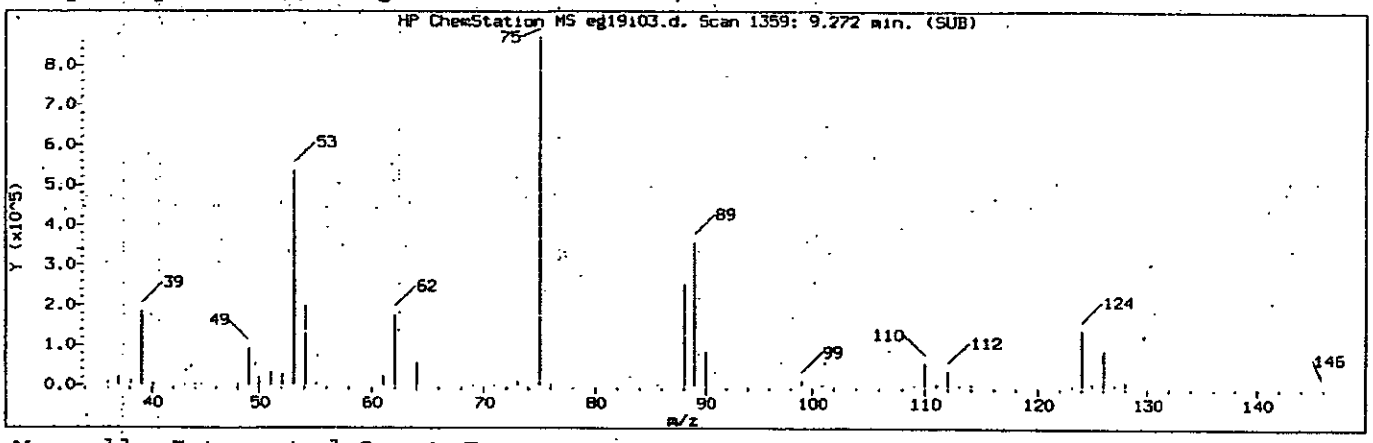
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 459
Retention Time (minutes): 3.785
Quant Ion : 59.00
Area : 1898199
On-column Amount (ng) : 97.4024
Integration start scan : 446 Integration stop scan: 503
Y at integration start : 0 Y at integration end: 0

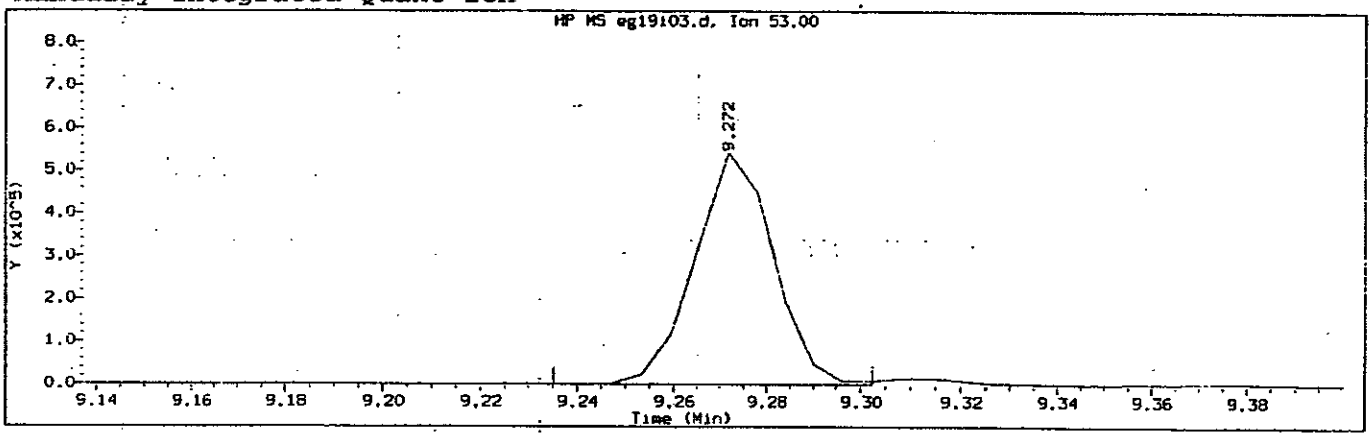
PTL86 8226

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

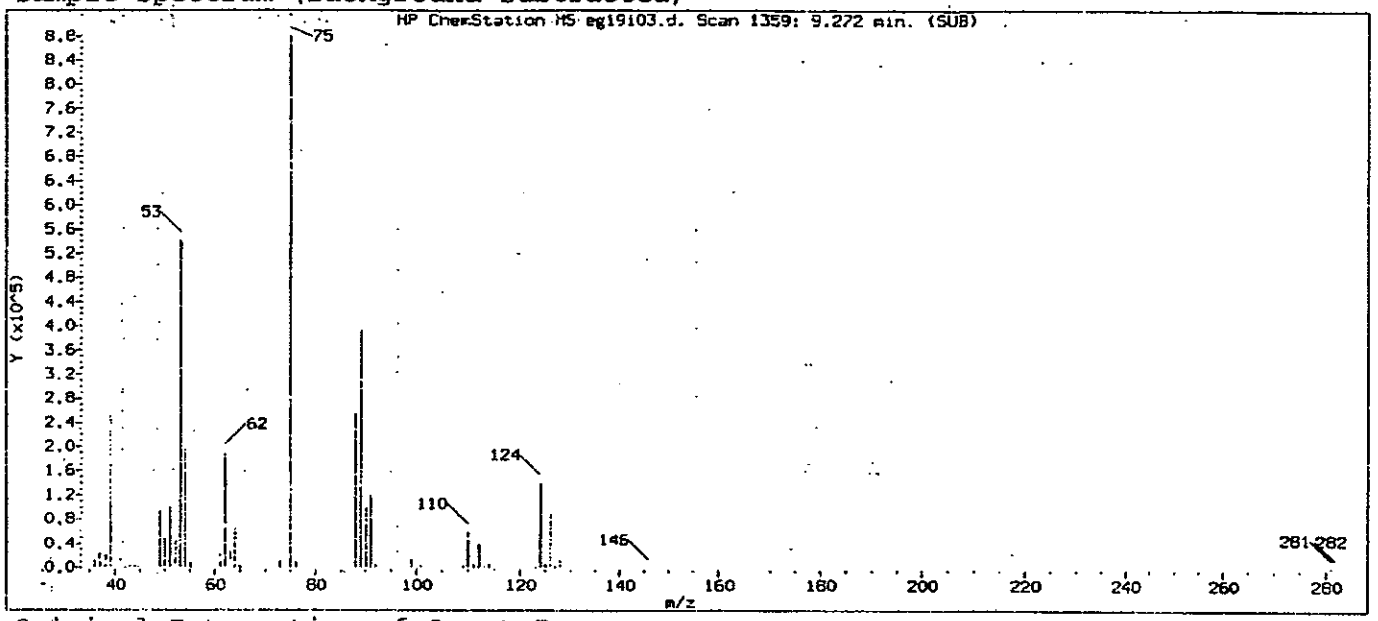
Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area (flag) : 633597M
On-Column Amount (ng) : 247.4337
Integration start scan : 1352 Integration stop scan: 1363
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

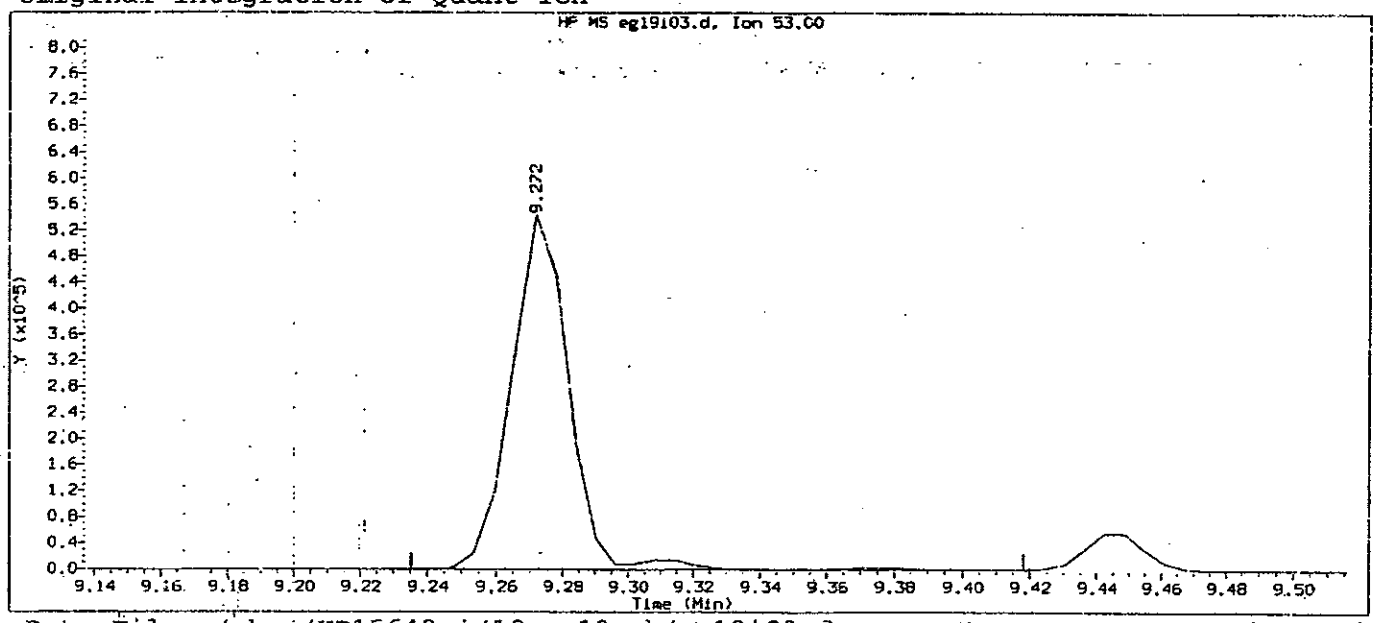
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [illegible] 8/20/10 PTL06 #227

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

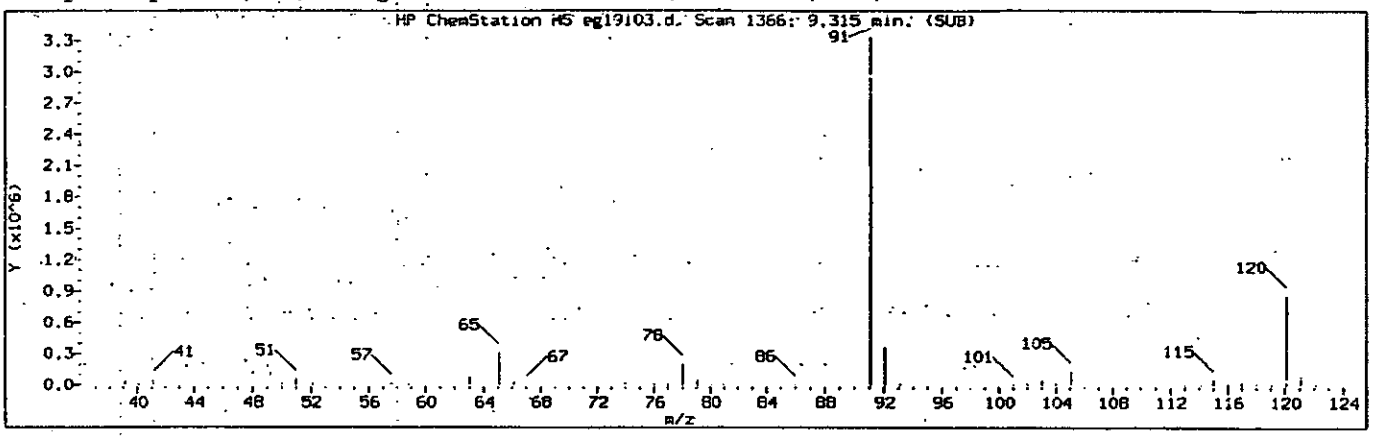
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

Sample Name: VSTD100 Lab Sample ID: VSTD100

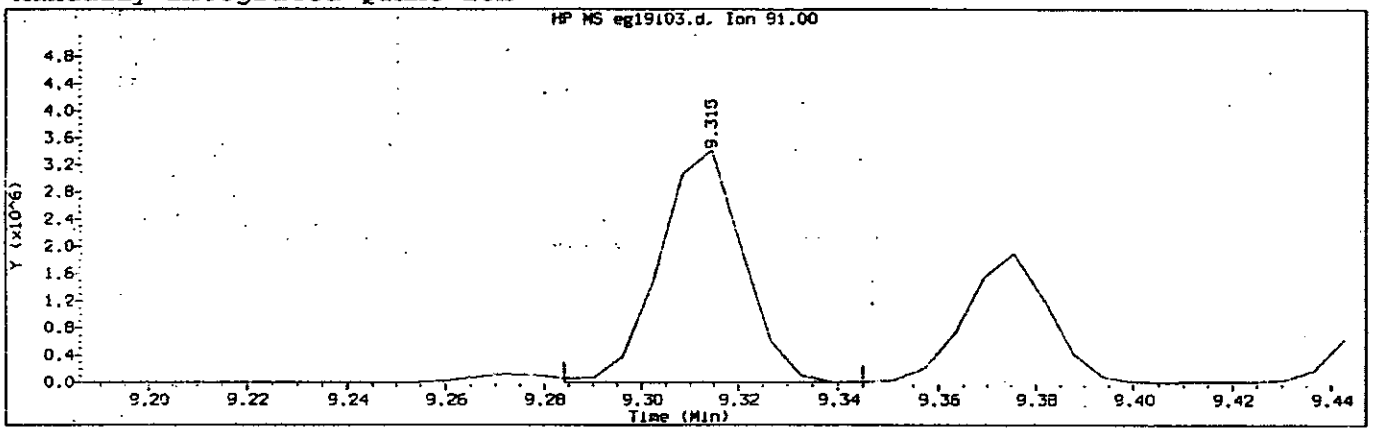
Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 653105
On-column Amount (ng) : 220.2125
Integration start scan : 1352 Integration stop scan: 1382 PTL06 8228
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 122		
Compound Name	: n-Propylbenzene		
Scan Number	: 1366		
Retention Time (minutes)	: 9.315		
Quant Ion	: 91.00		
Area (flag)	: 4088321M		
On-Column Amount (ng)	: 101.6680		
Integration start scan	: 1360	Integration stop scan:	1370
Y at integration start	: 0	Y at integration end:	0

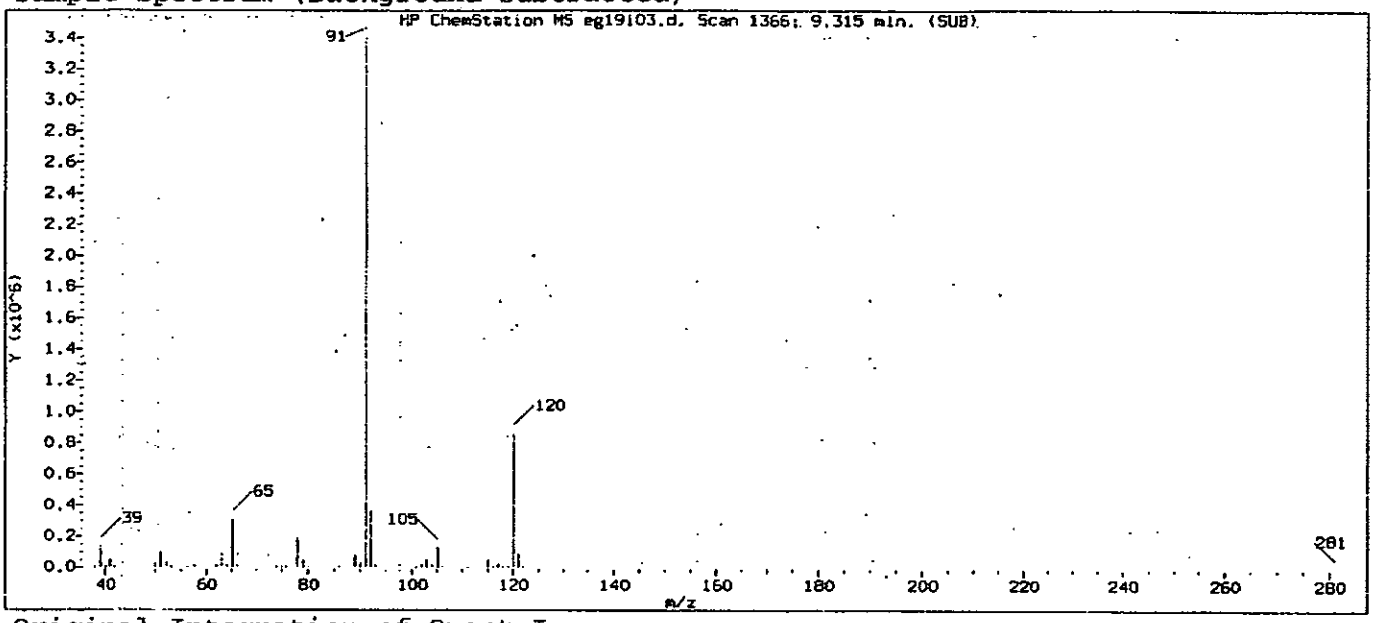
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

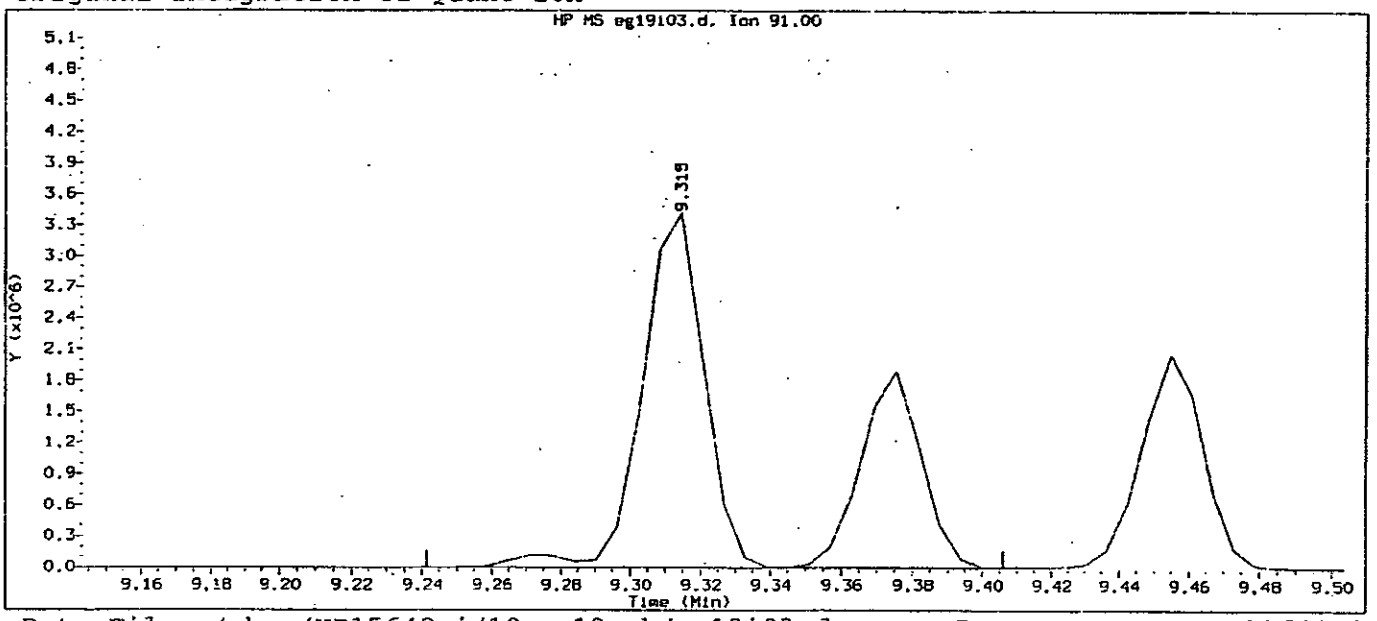
GC/MS audit/management approval: 8/20/10

PTL06 0229

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1366
Retention Time (minutes): 9.315
Quant Ion : 91.00
Area : 6452722
On-column Amount (ng) : 121.8159
Integration start scan : 1353 Integration stop scan: 1380
Y at integration start : 0 Y at integration end: 0

PTL06 0230

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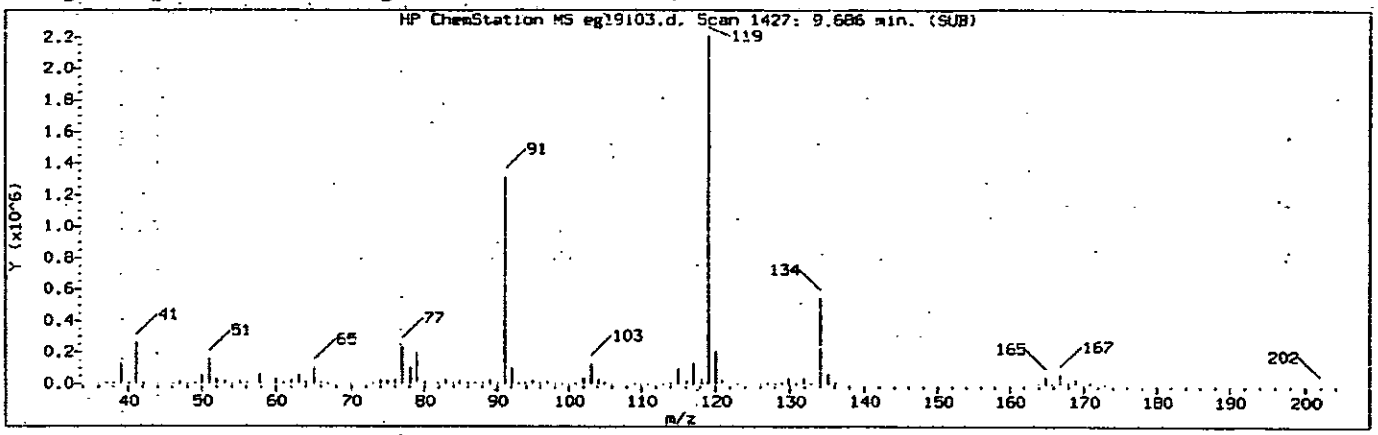
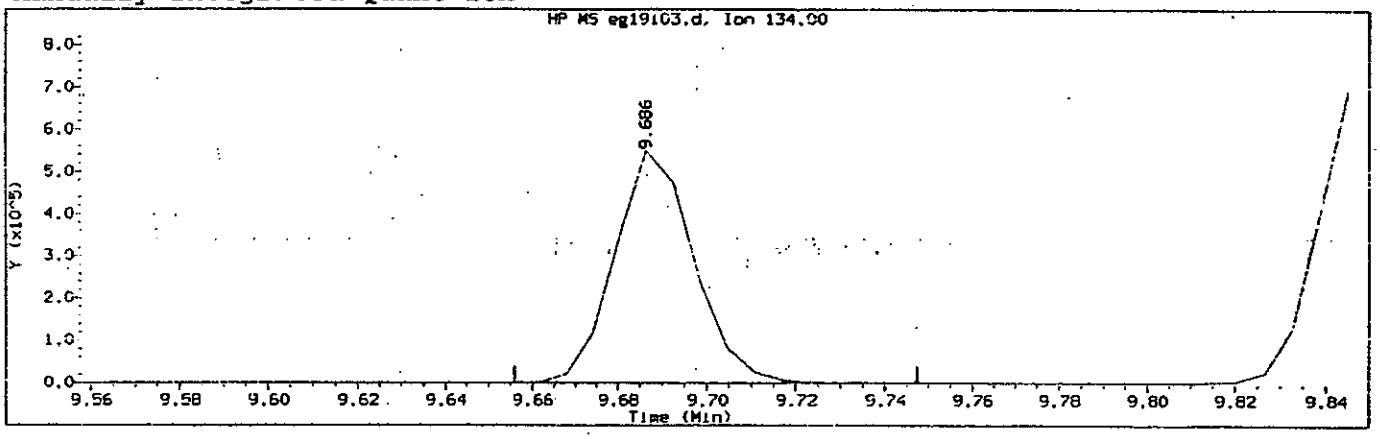
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 127
Compound Name	: tert-Butylbenzene
Scan Number	: 1427
Retention Time (minutes)	: 9.686
Quant Ion	: 134.00
Area (flag)	: 681917M
On-Column Amount (ng)	: 99.8084
Integration start scan	: 1421 Integration stop scan: 1436
Y at integration start	: 0 Y at integration end: 0

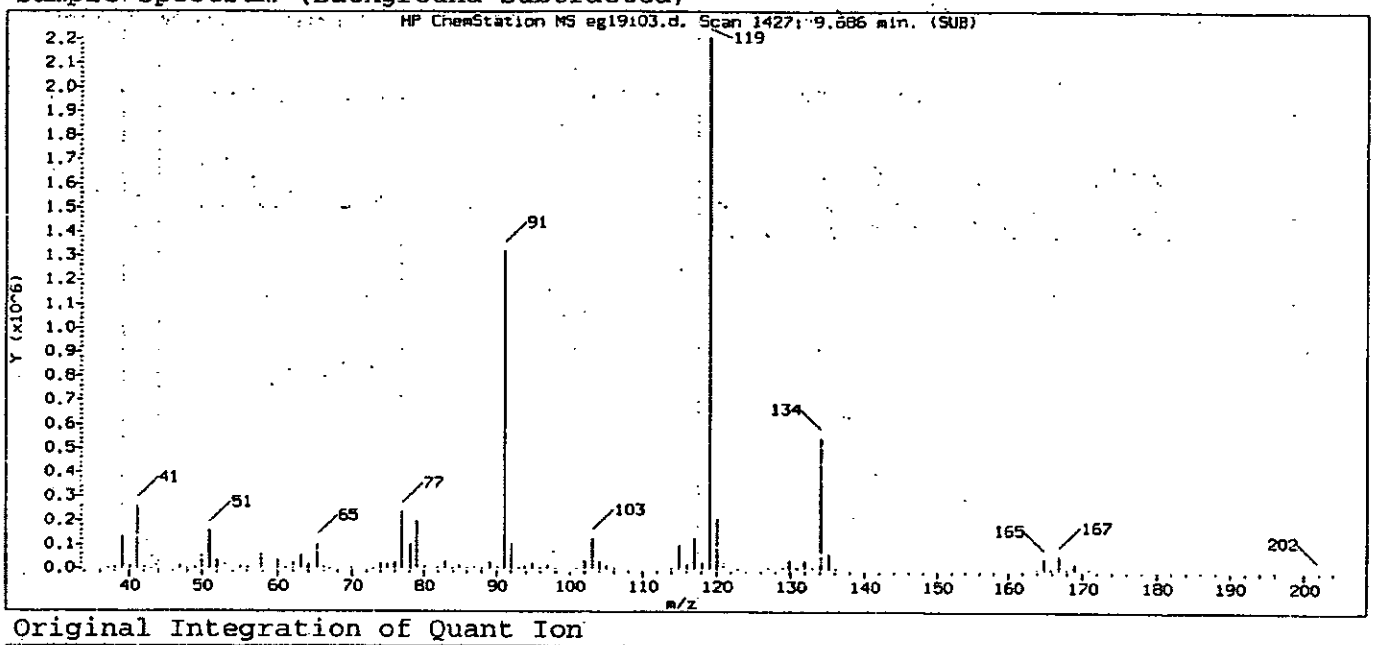
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

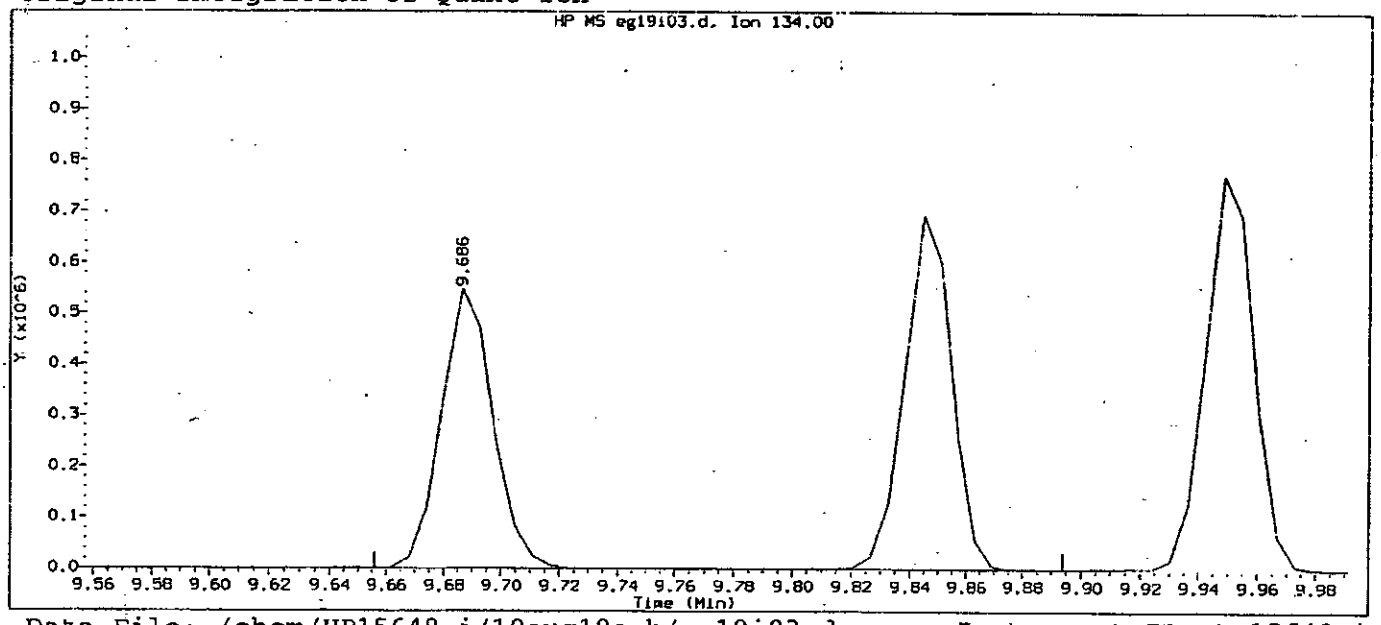
GC/MS audit/management approval: 8/20/10

PTL06 0231

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

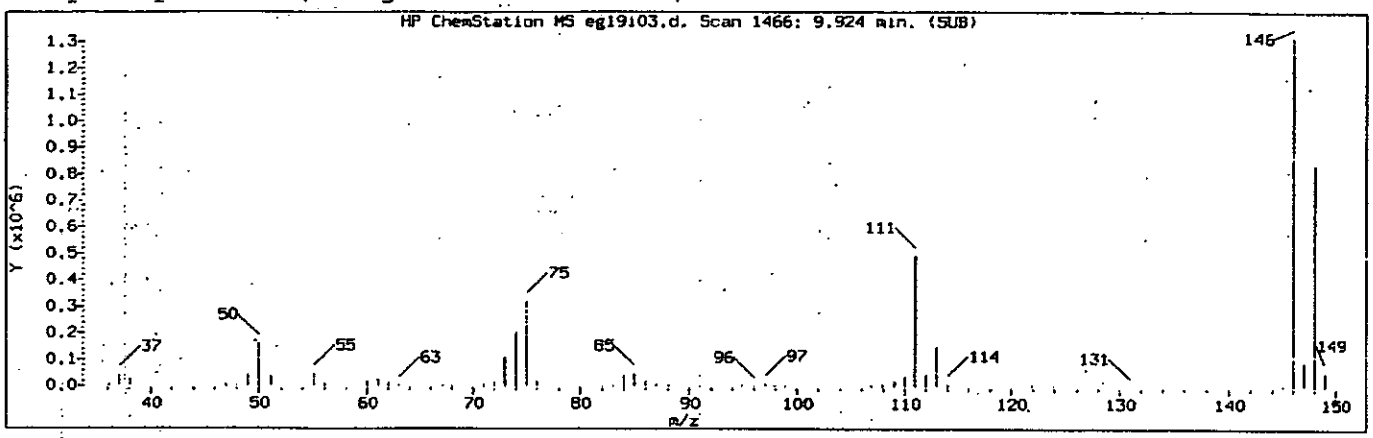
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

Sample Name: VSTD100 Lab Sample ID: VSTD100

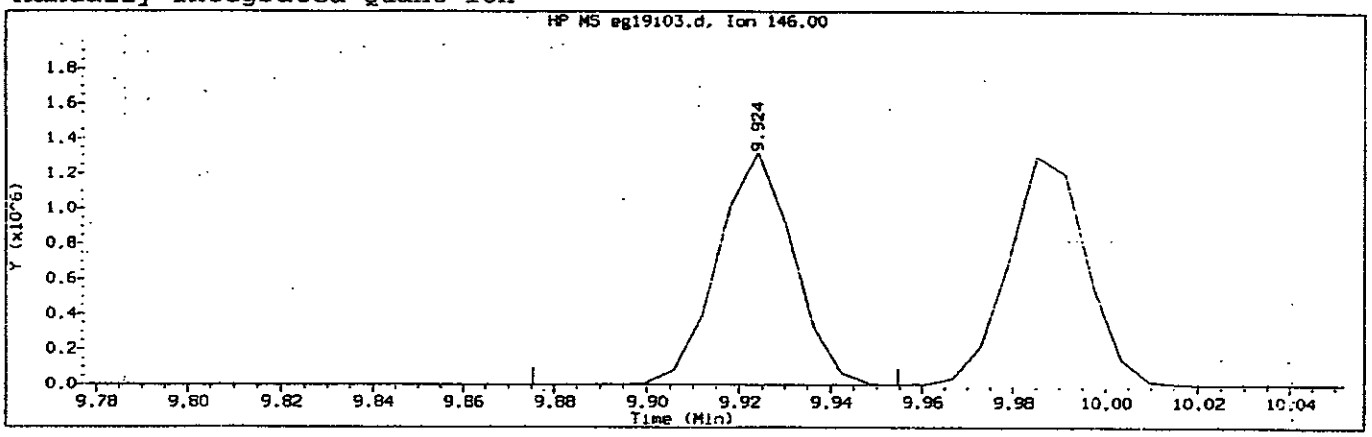
Compound Number : 127
Compound Name : tert-Butylbenzene
Scan Number : 1427
Retention Time (minutes): 9.686
Quant Ion : 134.00
Area : 1480732
On-column Amount (ng) : 133.3692
Integration start scan : 1421 Integration stop scan: 1460 PTL86 8232
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 133
Compound Name : 1,3-Dichlorobenzene
Scan Number : 1466
Retention Time (minutes): 9.924
Quant Ion : 146.00
Area (flag) : 1509751M
On-Column Amount (ng) : 99.3563
Integration start scan : 1457 Integration stop scan: 1470
Y at integration start : 0 Y at integration end: 0

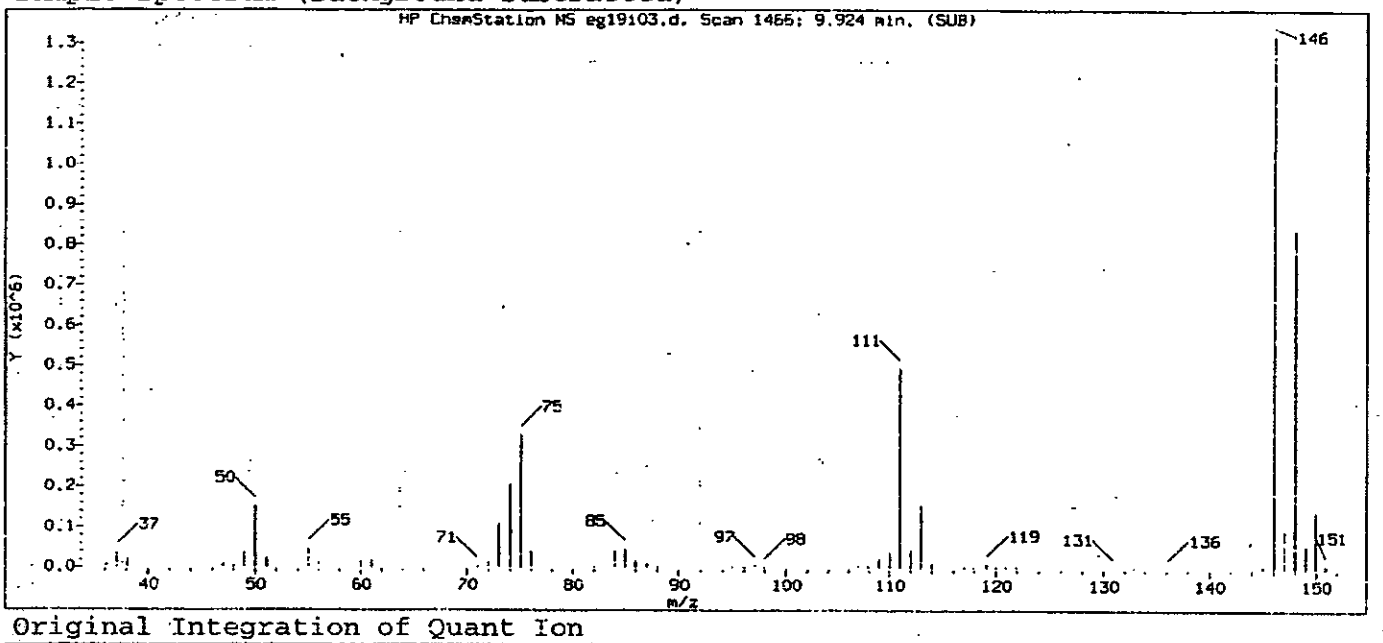
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

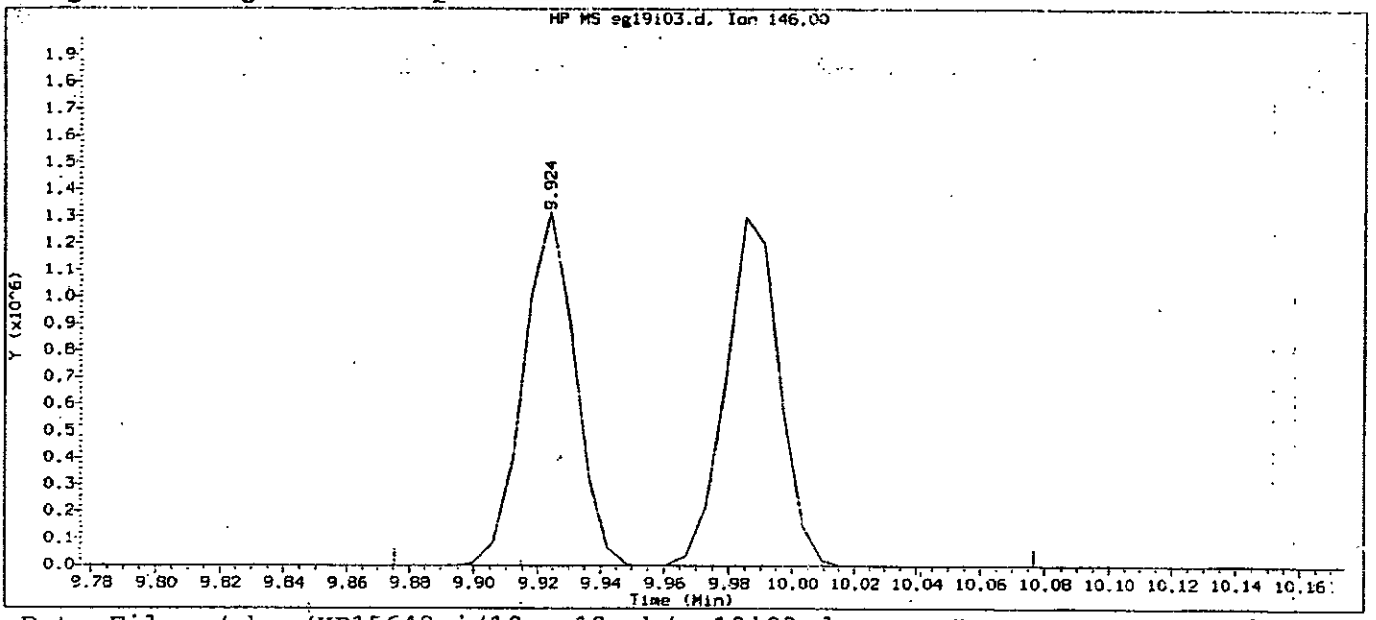
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0233

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 133
Compound Name : 1,3-Dichlorobenzene
Scan Number : 1466
Retention Time (minutes): 9.924
Quant Ion : 146.00
Area : 3044410
On-column Amount (ng) : 130.0863
Integration start scan : 1457 Integration stop scan: 1490 PTL86 8234
Y at integration start : 0 Y at integration end: 0

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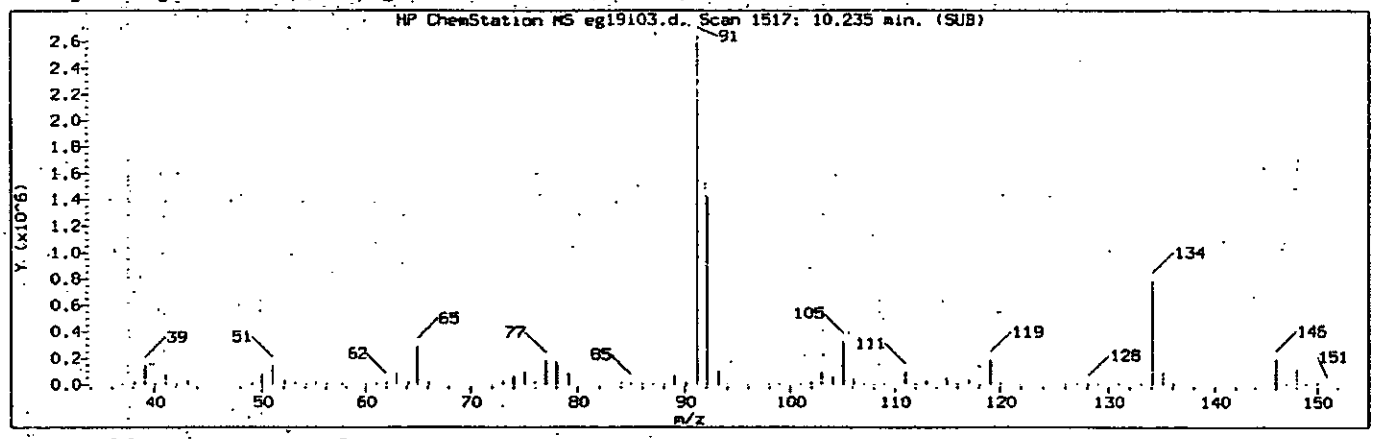
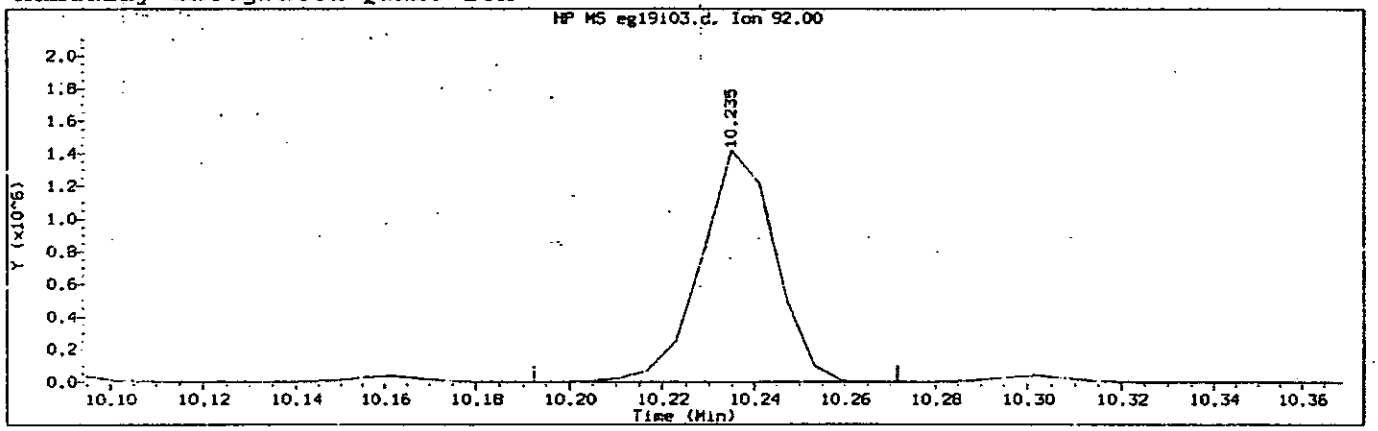
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 141
Compound Name : n-Butylbenzene
Scan Number : 1517
Retention Time (minutes): 10.235
Quant Ion : 92.00
Area (flag) : 1611317M
On-Column Amount (ng) : 102.6307
Integration start scan : 1509 Integration stop scan: 1522
Y at integration start : 0 Y at integration end: 0

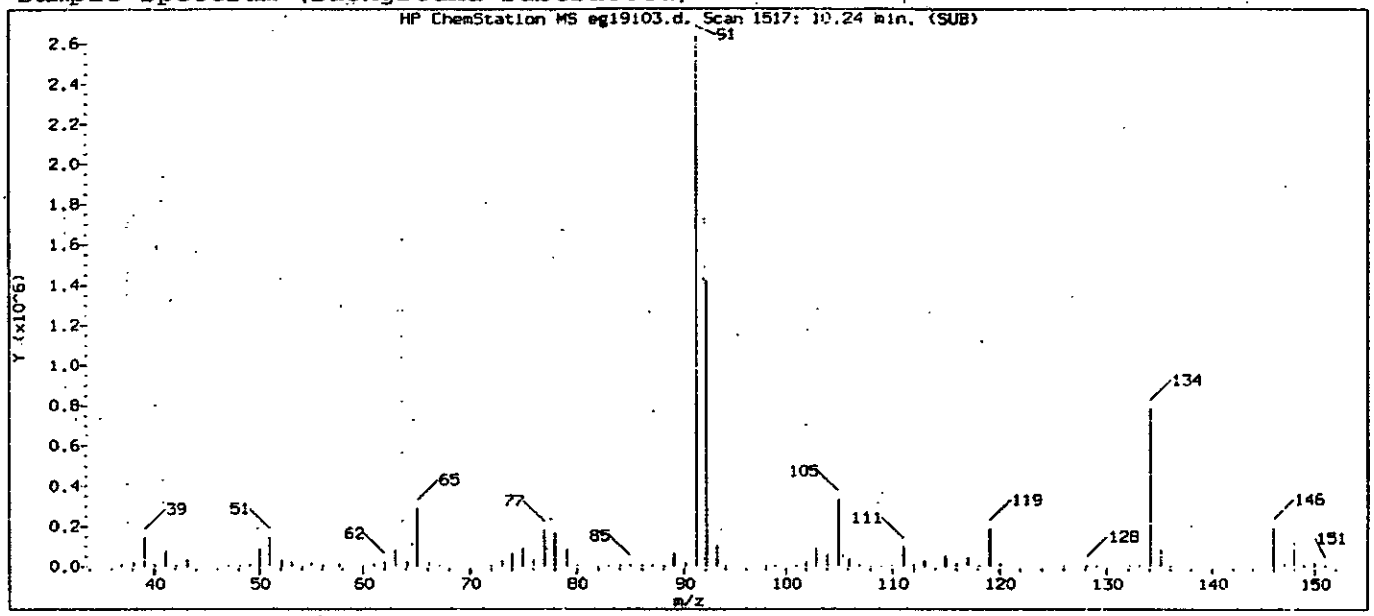
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

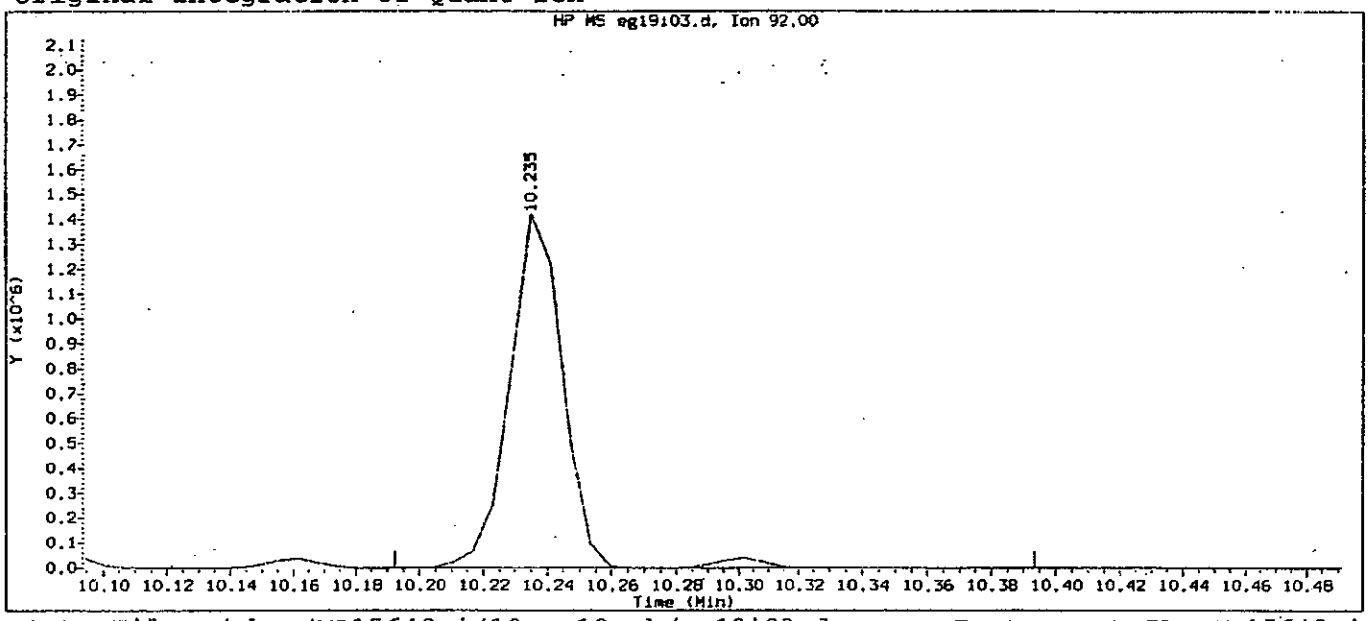
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0235

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 141
Compound Name : n-Butylbenzene
Scan Number : 1517
Retention Time (minutes): 10.235
Quant Ion : 92.00
Area : 1655750
On-column Amount (ng) : 95.6420
Integration start scan : 1509 Integration stop scan: 1542
Y at integration start : 0 Y at integration end: 0

PTL86 0236

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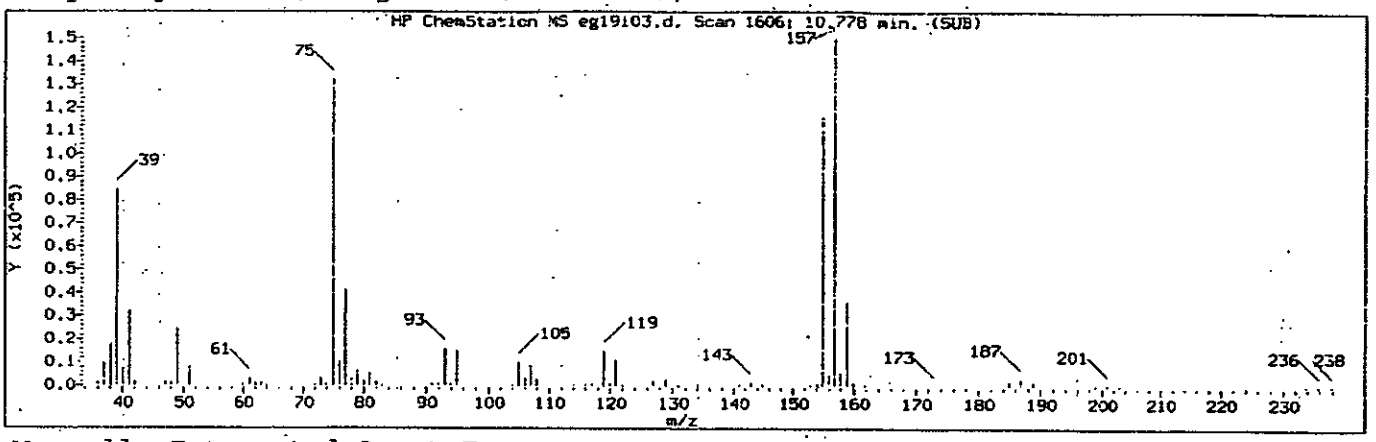
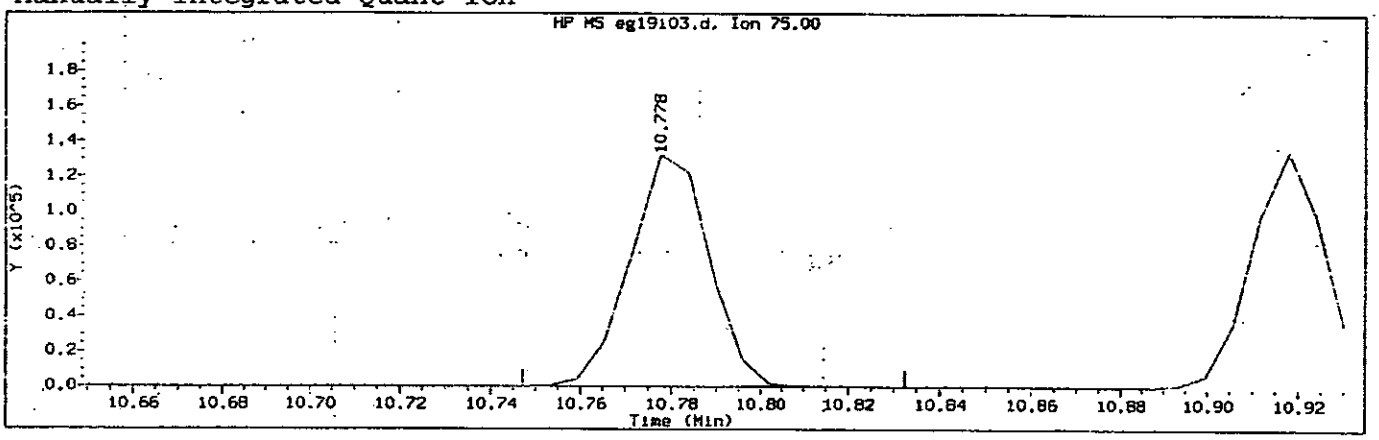
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area (flag) : 160185M
On-Column Amount (ng) : 97.8358
Integration start scan : 1600 Integration stop scan: 1614
Y at integration start : 0 Y at integration end: 0

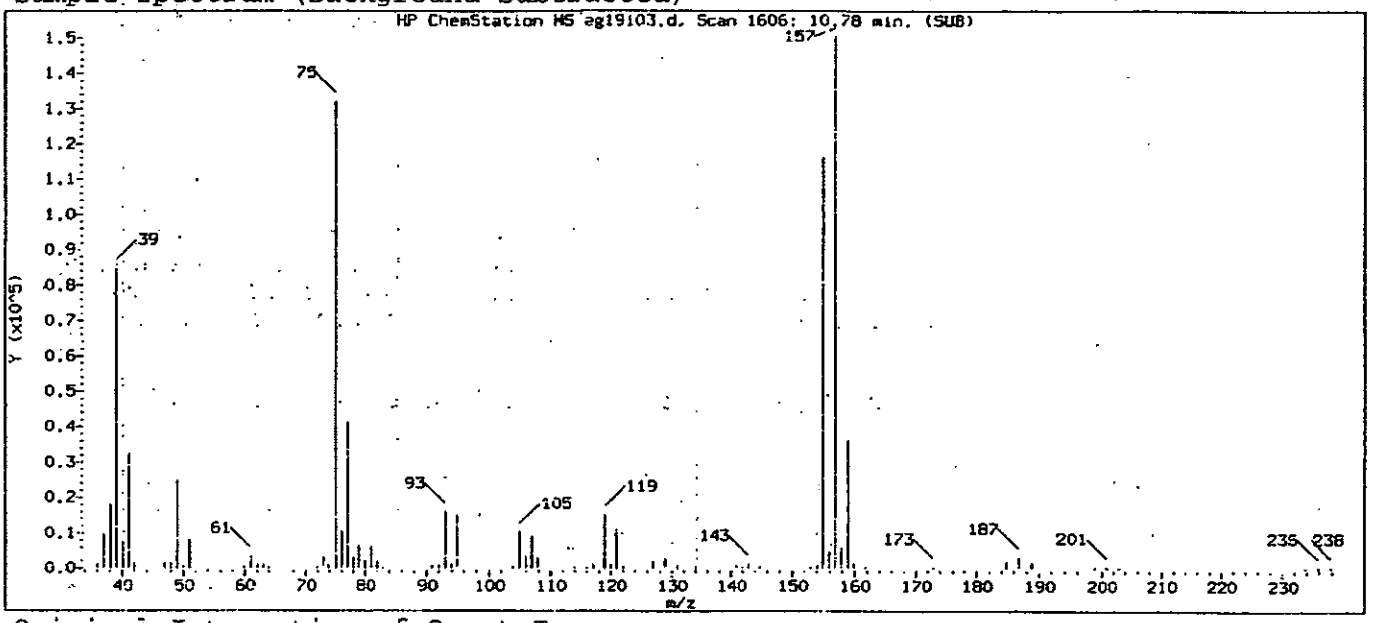
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49. Target 3.5 esignature user ID: sej02002

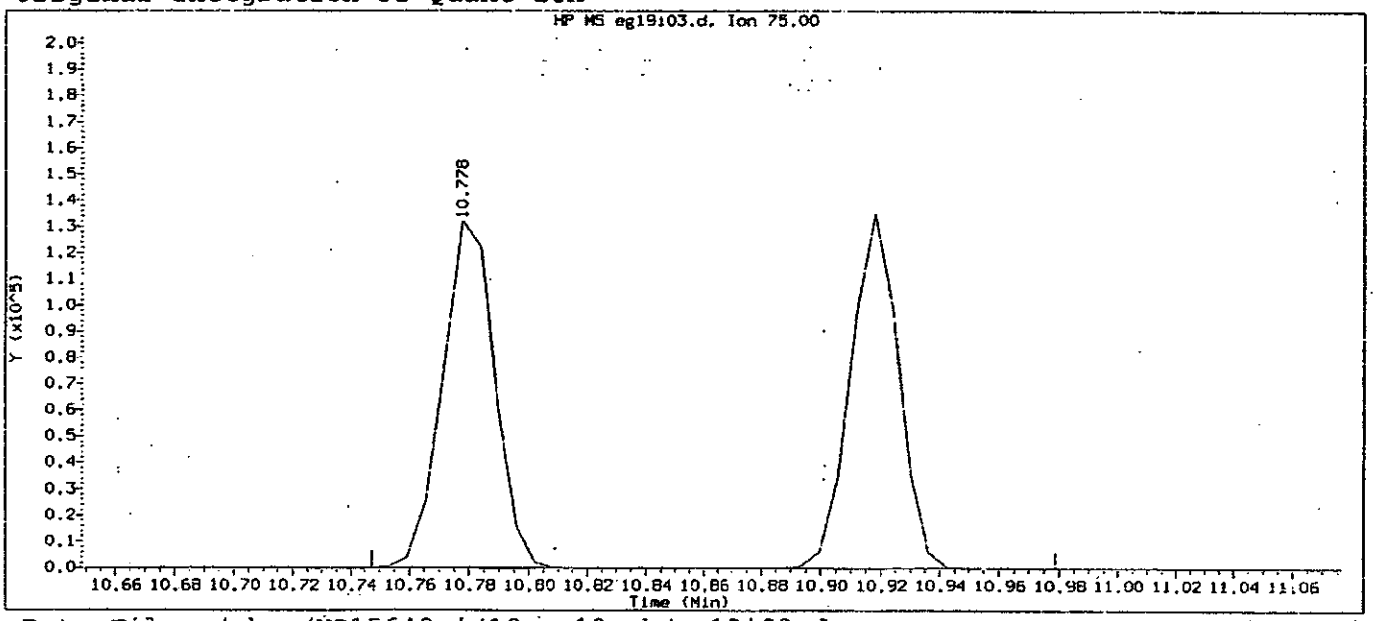
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8237

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



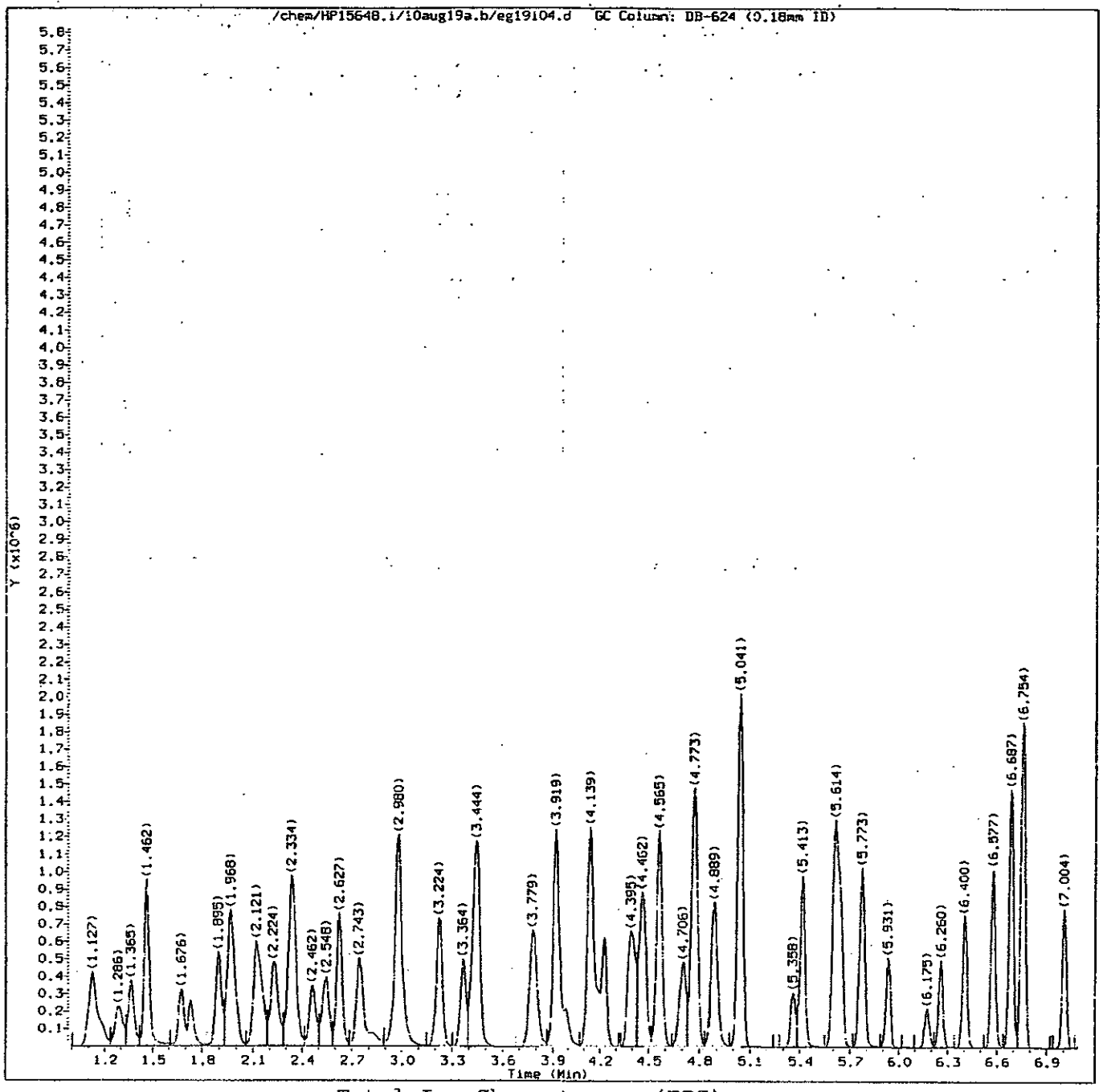
Data File: /chem/HP15648.i/10aug19a.b/eg19i03.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:43
Date, time and analyst ID of latest file update: 19-Aug-2010 15:43 jml01693

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area : 312414
On-column Amount (ng) : 90.0989
Integration start scan : 1600 Integration stop scan: 1638
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:49.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

PTL06 0239

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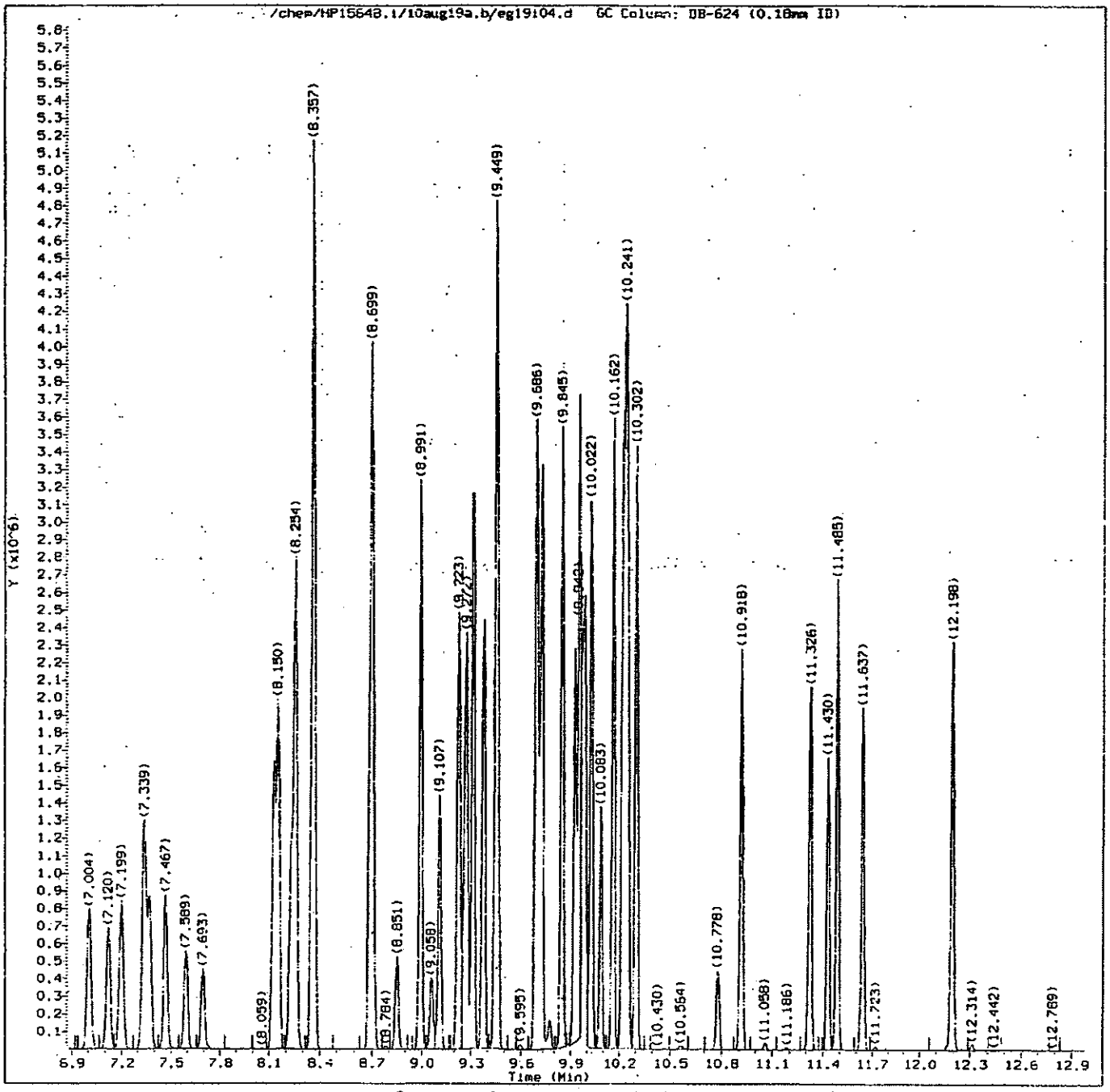
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d
Injection date and time: 19-AUG-2010 15:27

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050

Lab Sample ID: VSTD050

PTL06 0240

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:50:
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.286	85	463609	47.154
2) Chloromethane	(1)	1.365	50	477403	47.608
3) 1,3-Butadiene	(1)	1.462	39	300457	47.581
4) Vinyl Chloride	(1)	1.462	62	461278	47.584
5) Bromomethane	(1)	1.676	94	292029	47.568
6) Chloroethane	(1)	1.731	64	273273	47.699
7) Dichlorofluoromethane	(1)	1.895	67	617378	49.342
8) Trichlorofluoromethane	(1)	1.962	101	510276	48.065
9) n-Pentane	(1)	1.968	43	568379	48.685
12) Ethyl Ether	(1)	2.115	59	274421	50.336
13) Freon 123a	(1)	2.139	67	392226	49.820
14) Acrolein	(4)	2.224	56	806446	493.512
15) 1,1-Dichloroethene	(1)	2.334	96	311722	49.207
17) Freon 113	(1)	2.346	101	321390	50.407
16) Acetone	(1)	2.346	43	194383M	96.515
18) Methyl Iodide	(1)	2.468	142	519732	49.772
21) Carbon Disulfide	(1)	2.548	76	862164M	49.293
22) Allyl Chloride	(1)	2.621	41	508240	49.835
23) Methyl Acetate	(1)	2.633	43	265931	49.504
24) Methylene Chloride	(1)	2.749	84	317674	47.947
25)*t-Butyl Alcohol-d10	(4)	2.755	65	147036	250.000
26) t-Butyl Alcohol	(4)	2.828	59	171289M	255.694
27) Acrylonitrile	(1)	2.956	53	152636	50.590
28) trans-1,2-Dichloroethene	(1)	2.980	96	328826	49.868
29) Methyl Tertiary Butyl Ether	(1)	2.986	73	914177	50.219
31) n-Hexane	(1)	3.224	57	509378	49.738
33) 1,1-Dichloroethane	(1)	3.364	63	590034	49.999
34) di-Isopropyl Ether	(1)	3.432	45	1001234	50.358
35) 2-Chloro-1,3-Butadiene	(1)	3.450	53	458074	49.892
36) 1,2-Dichloroethene (total)	(1)		96	675351	99.638
37) Ethyl t-Butyl Ether	(1)	3.779	59	937950M	50.537
39) cis-1,2-Dichloroethene	(1)	3.919	96	346525	49.771
40) 2-Butanone	(1)	3.925	43	357782	105.874
41) 2,2-Dichloropropane	(1)	3.925	77	445800	50.655
42) Propionitrile	(4)	3.986	54	286264	259.568
44) Methacrylonitrile	(1)	4.133	67	407036	134.323
45) Bromochloromethane	(1)	4.145	128	164272	49.667
46) Tetrahydrofuran	(4)	4.187	71	105223	98.965
47) Chloroform	(1)	4.230	83	519900	49.744

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
51)$Dibromofluoromethane(mz111)	(1)	4.383	111	255703	49.829
50)$Dibromofluoromethane	(1)	4.383	113	249717	49.944
52) 1,1,1-Trichloroethane	(1)	4.407	97	481838	47.864
53) Cyclohexane	(1)	4.462	56	617666	49.978
55) 1,1-Dichloropropene	(1)	4.565	75	476133	50.053
56) Carbon Tetrachloride	(1)	4.572	117	370401	50.696
58) Isobutyl Alcohol	(4)	4.693	41	145672	654.078
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.712	104	42020	49.155
59)$1,2-Dichloroethane-d4	(1)	4.712	102	66157M	49.833
63) Benzene	(1)	4.767	78	1358079	49.916
65) 1,2-Dichloroethane	(1)	4.785	62	386106	49.589
67) t-Amyl Methyl Ether	(1)	4.889	73	903845	50.183
68) n-Heptane	(1)	5.041	43	515321	50.579
69)*Fluorobenzene	(1)	5.047	96	1118204	50.000
71) n-Butanol	(4)	5.358	56	263175	1305.085
72) Trichloroethene	(1)	5.413	95	350756	50.148
74) Methylcyclohexane	(1)	5.608	83	656811	50.699
76) 1,2-Dichloropropane	(1)	5.645	63	342805	49.819
78) Dibromomethane	(1)	5.760	93	194365	49.589
79) Methyl Methacrylate	(1)	5.779	69	290952	50.415
80) 1,4-Dioxane	(4)	5.785	88	46371	690.152
81) Bromodichloromethane	(1)	5.931	83	370367	50.265
82) 2-Nitropropane	(1)	6.175	41	139800	106.120
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	237469	50.500
87) cis-1,3-Dichloropropene	(1)	6.400	75	491747	50.321
88) 4-Methyl-2-Pentanone	(1)	6.577	43	753550	100.436
90)$Toluene-d8	(2)	6.687	98	1109247	50.033
89)$Toluene-d8(mz100)	(2)	6.687	100	720054	50.216
91) Toluene	(2)	6.754	92	876201	49.844
92) trans-1,3-Dichloropropene	(2)	7.004	75	457730	50.926
93) Ethyl Methacrylate	(2)	7.120	69	383142	51.536
94) 1,1,2-Trichloroethane	(2)	7.199	97	284895	50.190
96) Tetrachloroethene	(2)	7.339	166	412207	50.433
97) 1,3-Dichloropropane	(2)	7.370	76	504478	50.322
98) 2-Hexanone	(2)	7.467	43	532832	107.435
100) Dibromochloromethane	(2)	7.589	129	285759	51.628
101) 1,2-Dibromoethane	(2)	7.693	107	293110	50.778
103)*Chlorobenzene-d5	(2)	8.126	117	801714	50.000
104) Chlorobenzene	(2)	8.150	112	949011	49.871

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
105) Xylene (Total)	(2)		106	1963125	149.940
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	288103	50.833
107) Ethylbenzene	(2)	8.254	91	1684228	50.003
108) m+p-Xylene	(2)	8.357	106	1323755	100.024
110) o-Xylene	(2)	8.693	106	639370	49.916
111) Styrene	(2)	8.705	104	1022766	50.570
112) Bromoform	(2)	8.851	173	209369	51.594
113) Isopropylbenzene	(2)	8.991	105	1693622	50.233
115) Cyclohexanone	(4)	9.065	55	154349	676.573
117) $4-Bromofluorobenzene(mz174)	(2)	9.107	174	340214	50.317
116) $4-Bromofluorobenzene	(2)	9.107	95	389266	49.492
118) Bromobenzene	(3)	9.223	156	389246	50.541
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	425949	50.796
120) 1,2,3-Trichloropropane	(3)	9.260	110	127313	51.468
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	322496M	128.321
122) n-Propylbenzene	(3)	9.315	91	2038356M	51.647
123) 2-Chlorotoluene	(3)	9.376	126	395405	50.242
124) 1,3,5-Trimethylbenzene	(3)	9.449	105	1376297	51.060
125) 4-Chlorotoluene	(3)	9.455	126	403935	50.649
127) tert-Butylbenzene	(3)	9.686	134	333295M	49.704
128) Pentachloroethane	(3)	9.699	167	200931	50.070
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	1423604	50.945
132) sec-Butylbenzene	(3)	9.845	105	1843529	52.054
133) 1,3-Dichlorobenzene	(3)	9.924	146	752240M	50.440
134) p-Isopropyltoluene	(3)	9.949	119	1582169	51.383
135) *1,4-Dichlorobenzene-d4	(3)	9.973	152	435125	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	753309	49.931
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	1405258	51.343
138) Benzyl Chloride	(3)	10.083	91	739552	51.723
139) 1,3-Diethylbenzene	(3)	10.162	105	913304M	51.424
140) 1,4-Diethylbenzene	(3)	10.217	105	847063M	51.289
141) n-Butylbenzene	(3)	10.235	92	777387	50.450
142) 1,2-Dichlorobenzene	(3)	10.247	146	719253	50.416
143) 1,2-Diethylbenzene	(3)	10.302	105	846154	51.104
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	83445M	53.951
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	527933	50.831
147) Hexachlorobutadiene	(3)	11.430	225	247269M	51.160
148) Naphthalene	(3)	11.485	128	1571496	52.484
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	491652	51.015

M = Compound was manually integrated.
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$ = Compound is a surrogate standard.

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on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
152) 2-Methylnaphthalene	(3)	12.198	142	866950	54.803

PTL86 0244

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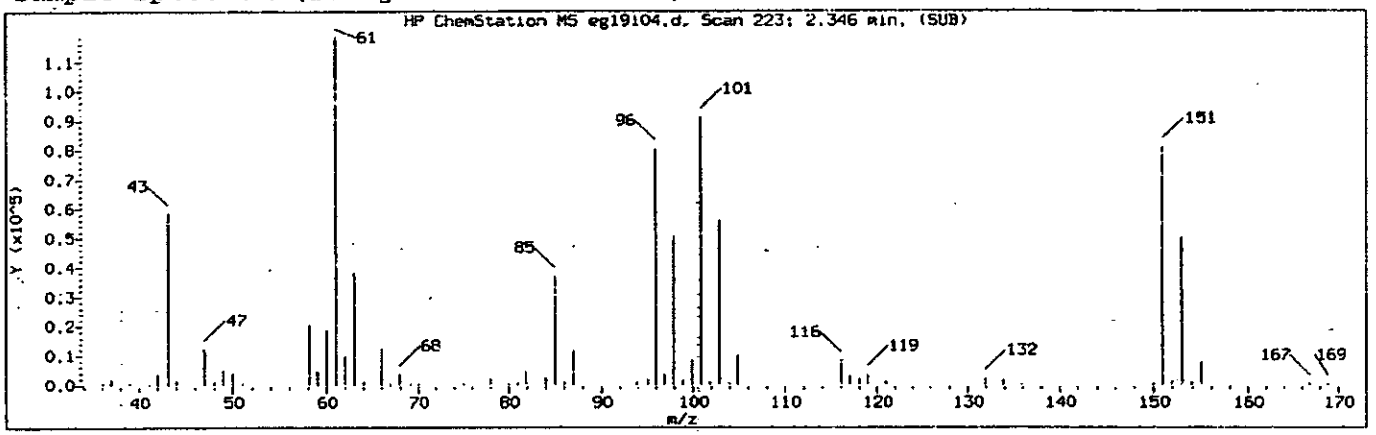
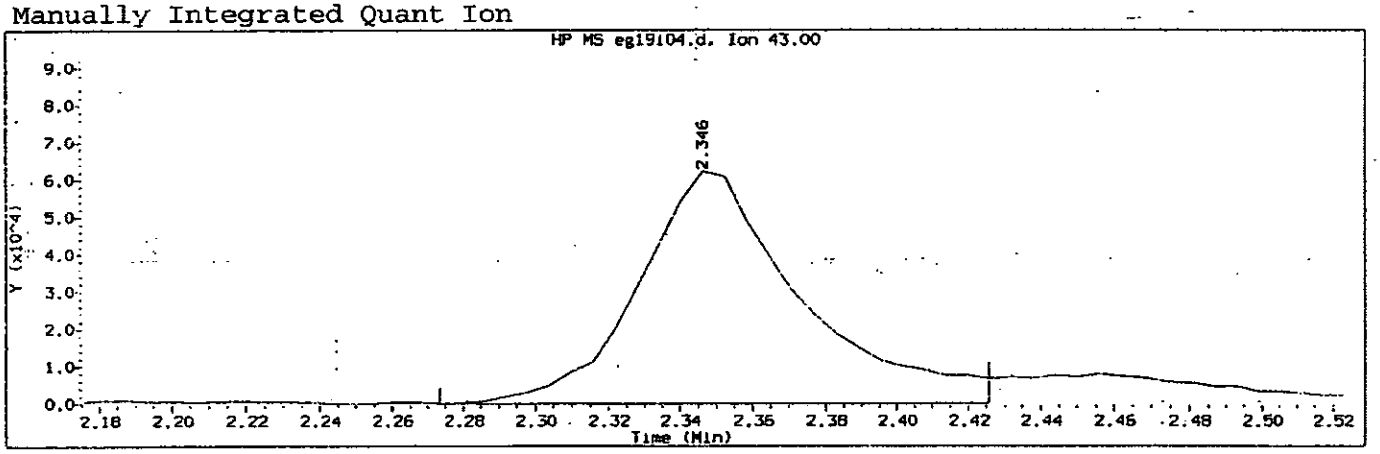
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 16
Compound Name : Acetone
Scan Number : 223
Retention Time (minutes): 2.346
Quant Ion : 43.00
Area (flag) : 194383M
On-Column Amount (ng) : 96.5149
Integration start scan : 210 Integration stop scan: 235
Y at integration start : 0 Y at integration end: 0

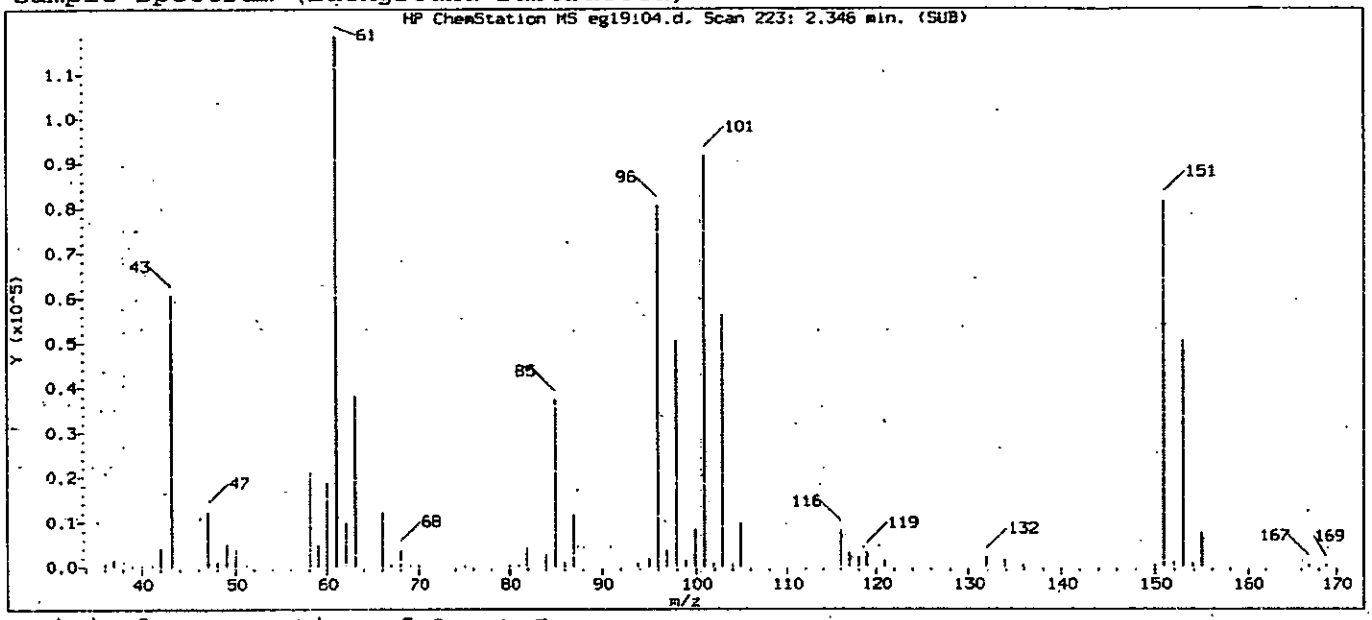
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

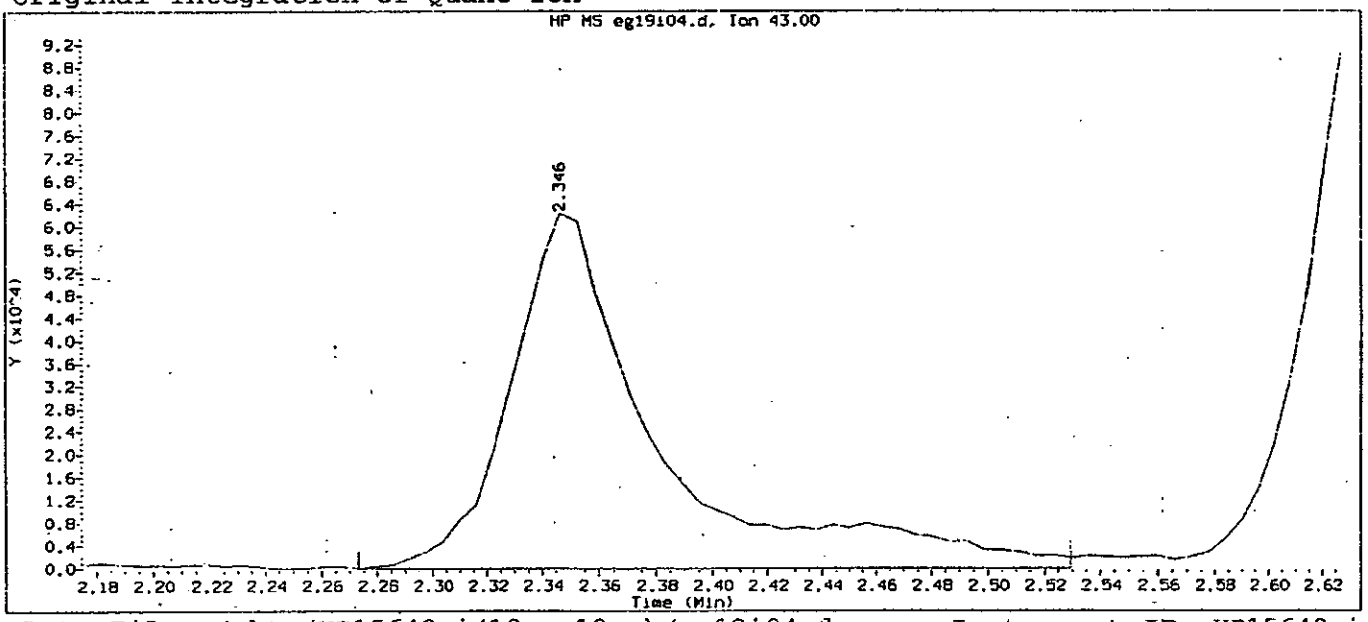
GC/MS audit/management approval: 8/20/10

PTL86 0245

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 16
Compound Name : Acetone
Scan Number : 223
Retention Time (minutes): 2.346
Quant Ion : 43.00
Area : 226073
On-column Amount (ng) : 99.1707
Integration start scan : 210 Integration stop scan: 252
Y at integration start : 0 Y at integration end: 0

PTL06 0246

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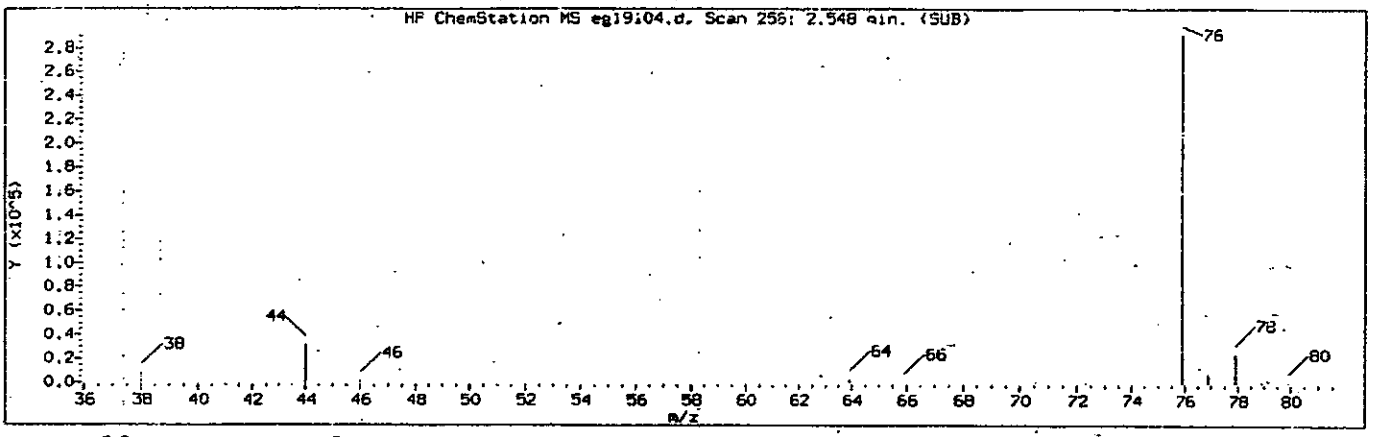
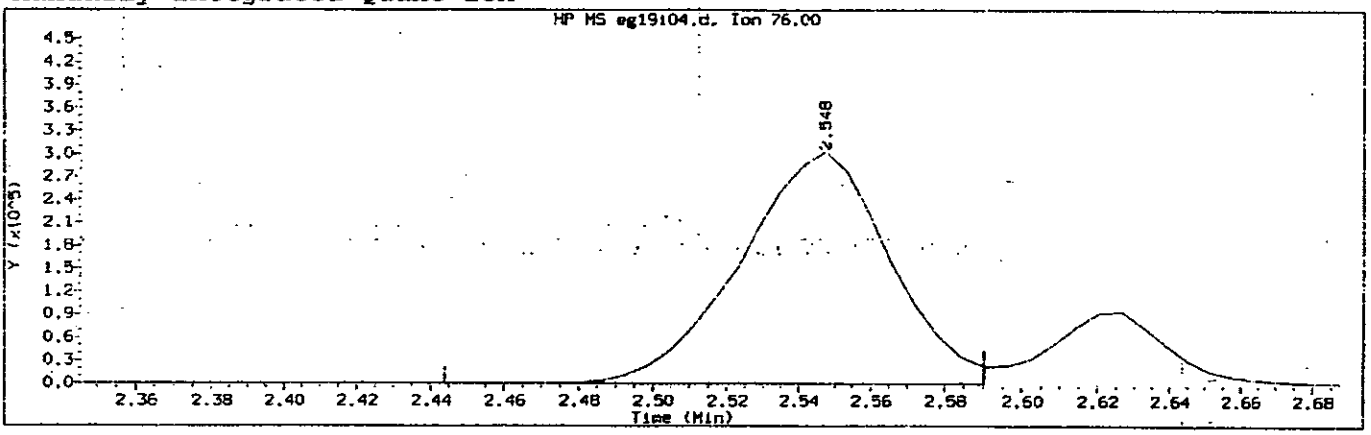
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 21		
Compound Name	: Carbon Disulfide		
Scan Number	: 256		
Retention Time (minutes)	: 2.548		
Quant Ion	: 76.00		
Area (flag)	: 862164M		
On-Column Amount (ng)	: 49.2931		
Integration start scan	: 238	Integration stop scan:	262
Y at integration start	: 0	Y at integration end:	0

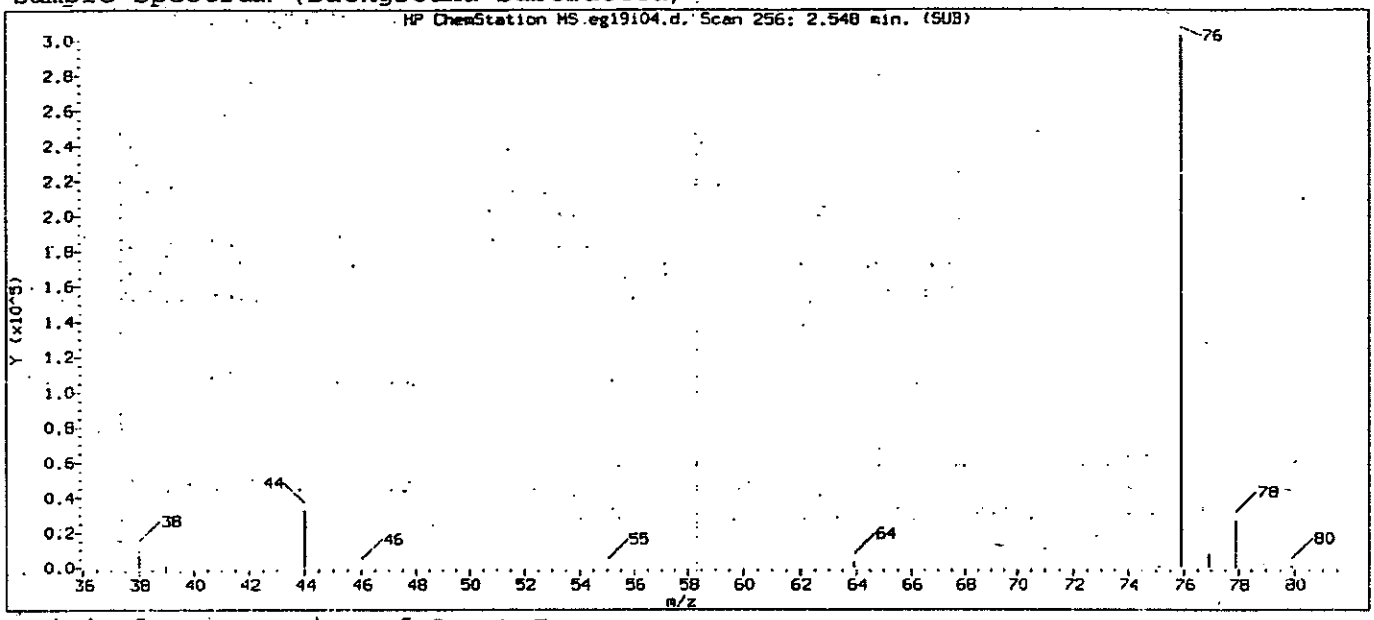
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

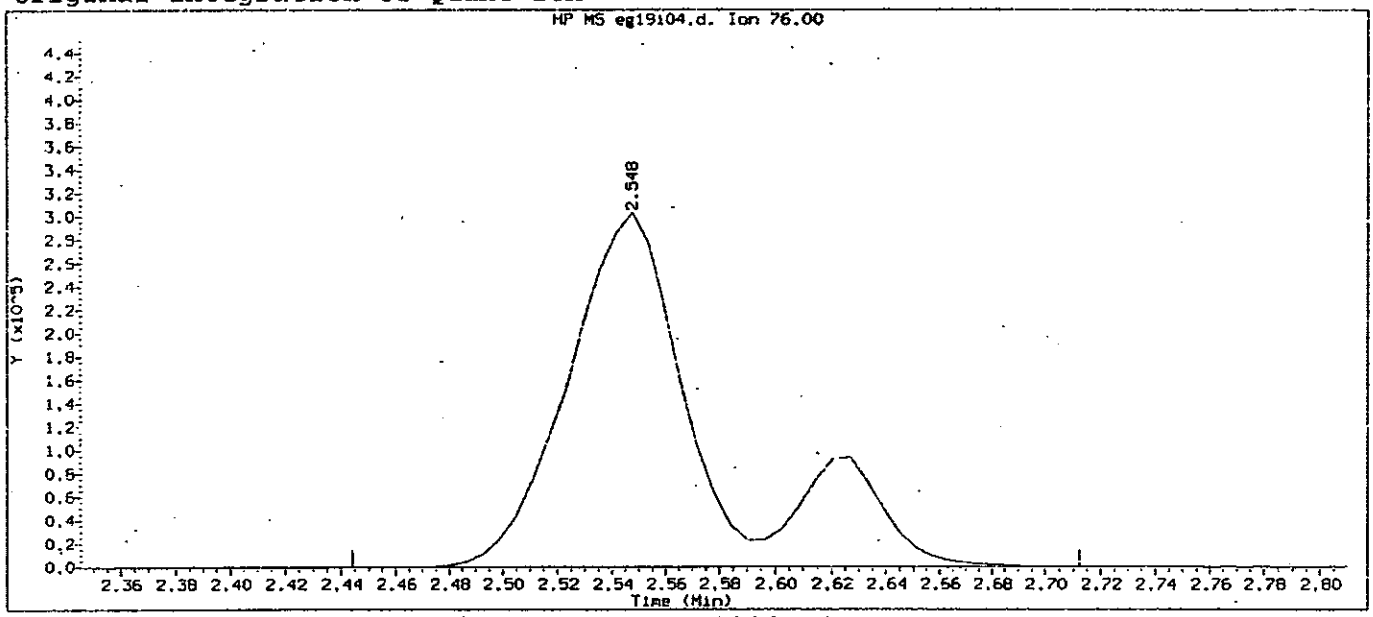
GC/MS audit/management approval: 8/20/10

PTL86 8247

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 21
Compound Name : Carbon Disulfide
Scan Number : 256
Retention Time (minutes): 2.548
Quant Ion : 76.00
Area : 1069230
On-column Amount (ng) : 56.4496
Integration start scan : 238 Integration stop scan: 282
Y at integration start : 0 Y at integration end: 0

PTL86 0248

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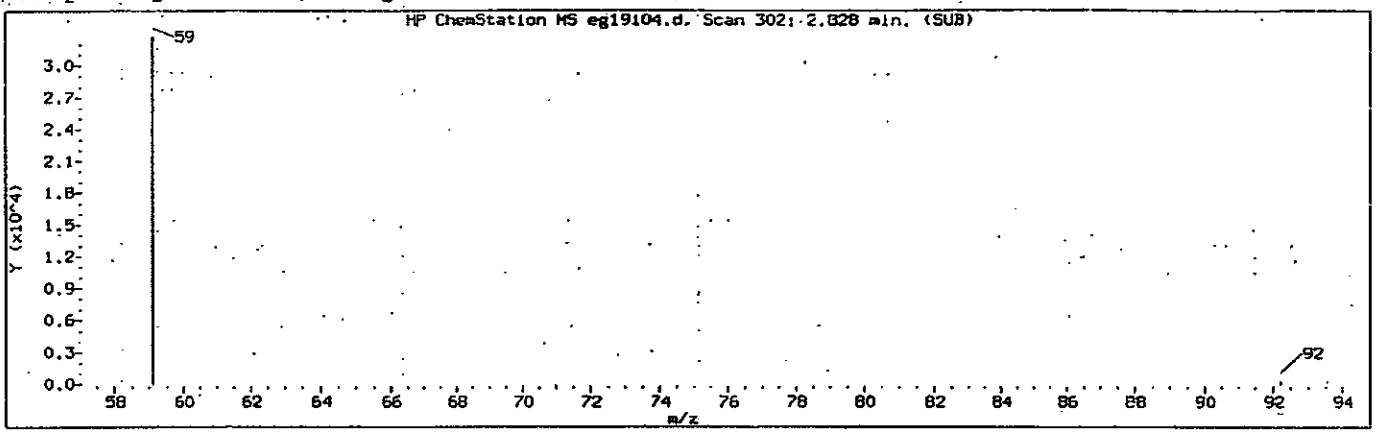
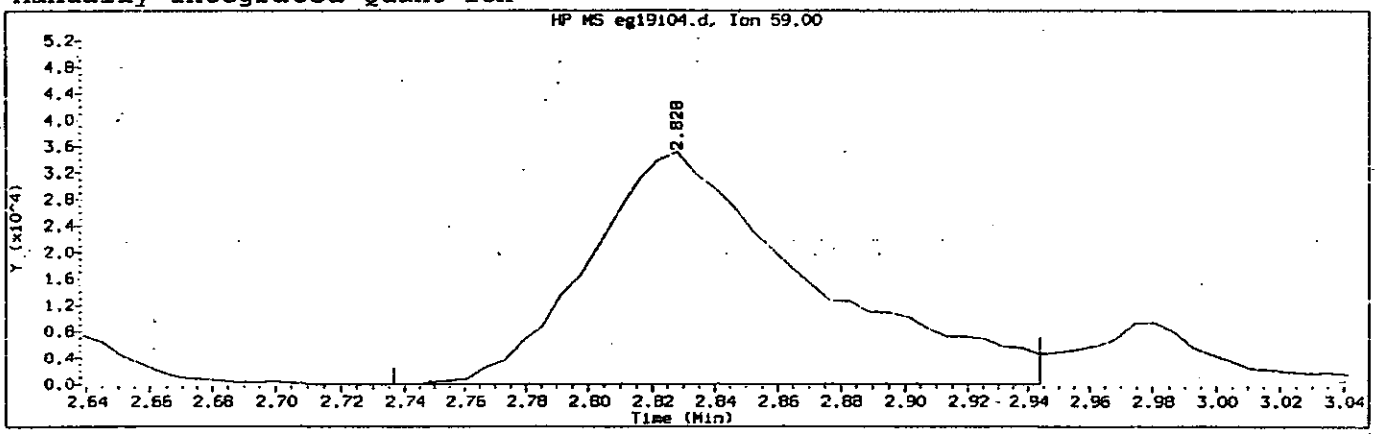
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

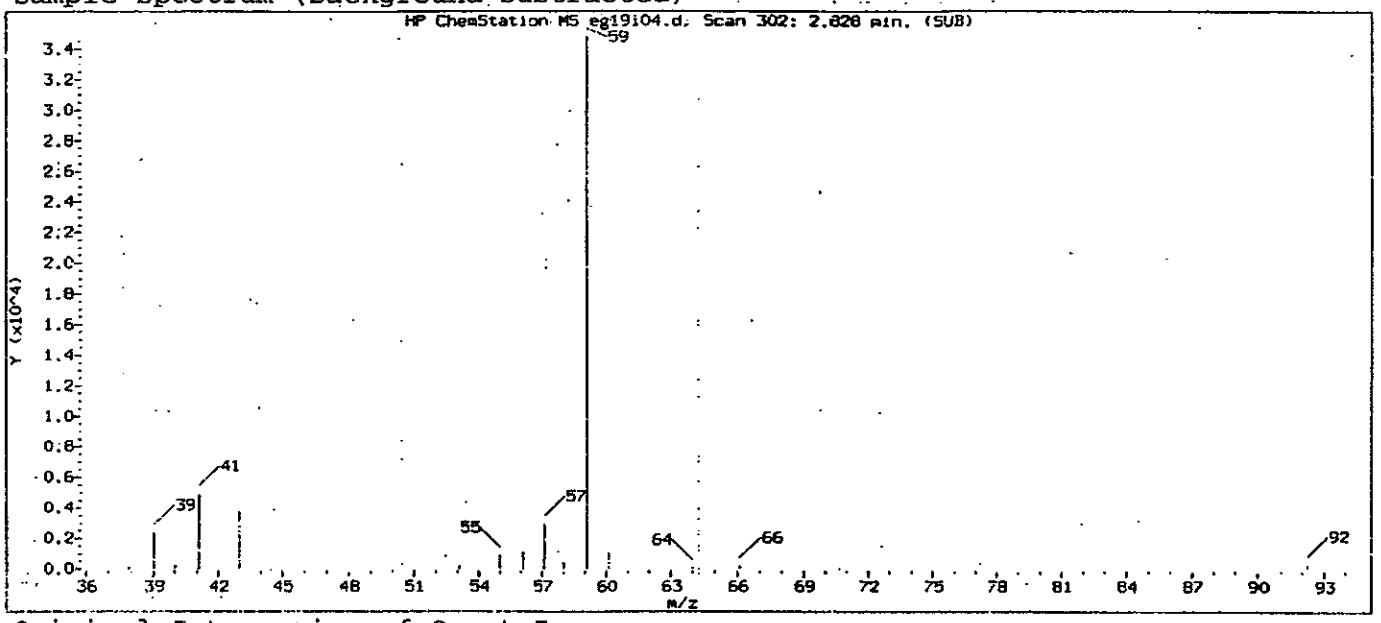
Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 302
Retention Time (minutes): 2.828
Quant Ion : 59.00
Area (flag) : 171289M
On-Column Amount (ng) : 255.6940
Integration start scan : 286 Integration stop scan: 320
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

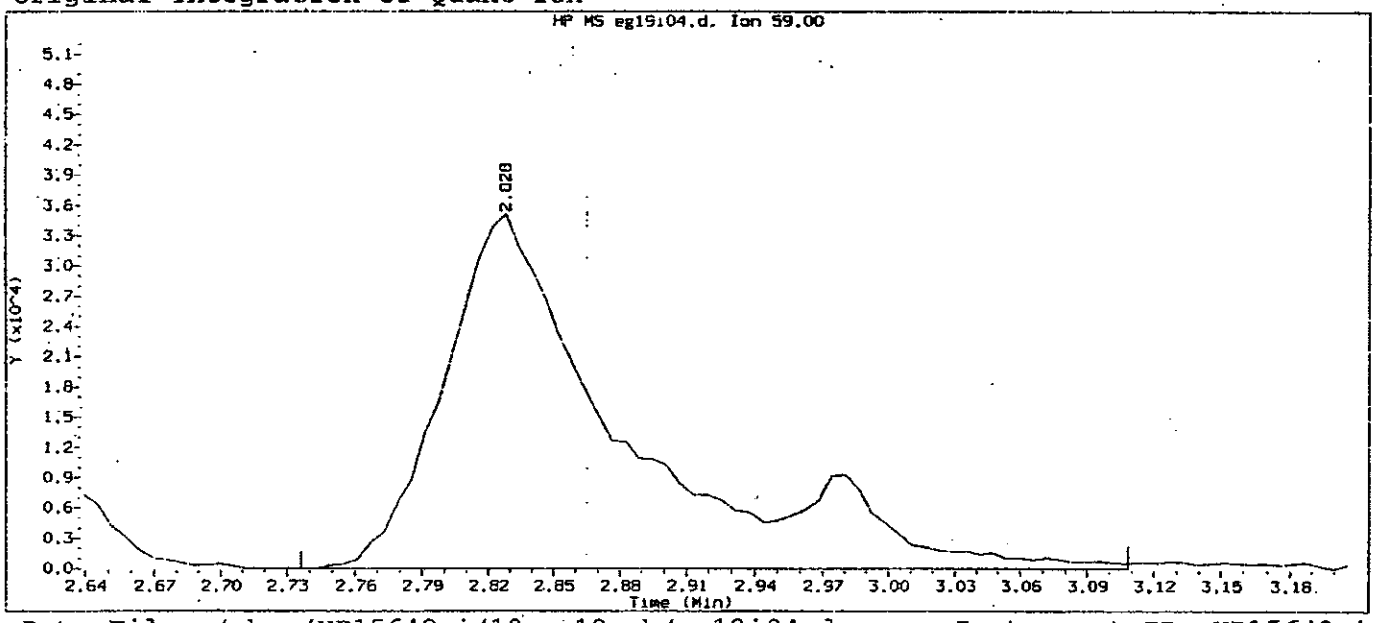
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: 8/20/10 PTL86 8249

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 302
Retention Time (minutes): 2.828
Quant Ion : 59.00
Area : 201689
On-column Amount (ng) : 241.7115
Integration start scan : 286 Integration stop scan: 347
Y at integration start : 0 Y at integration end: 0

PTL86 8258

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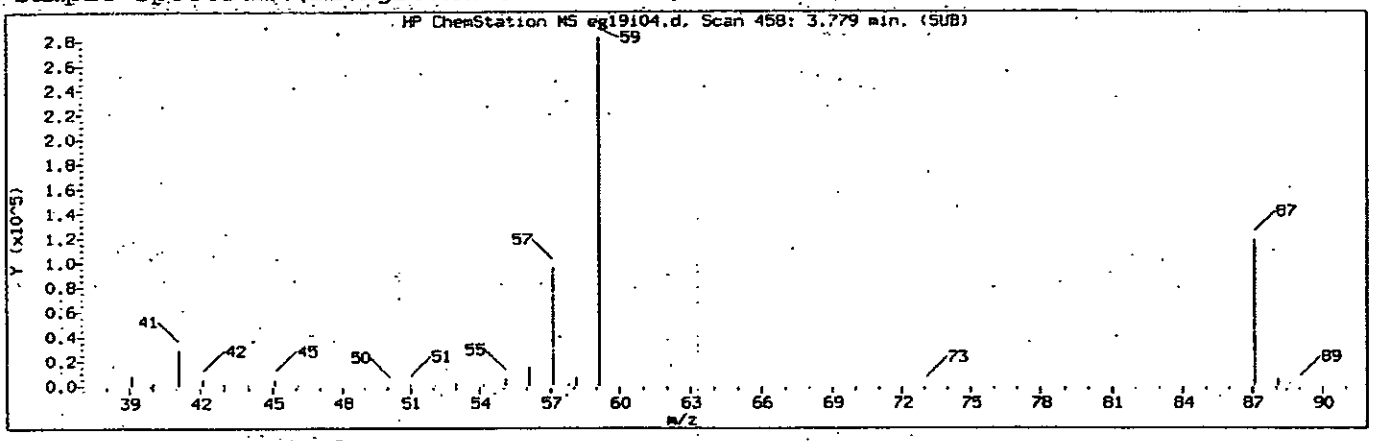
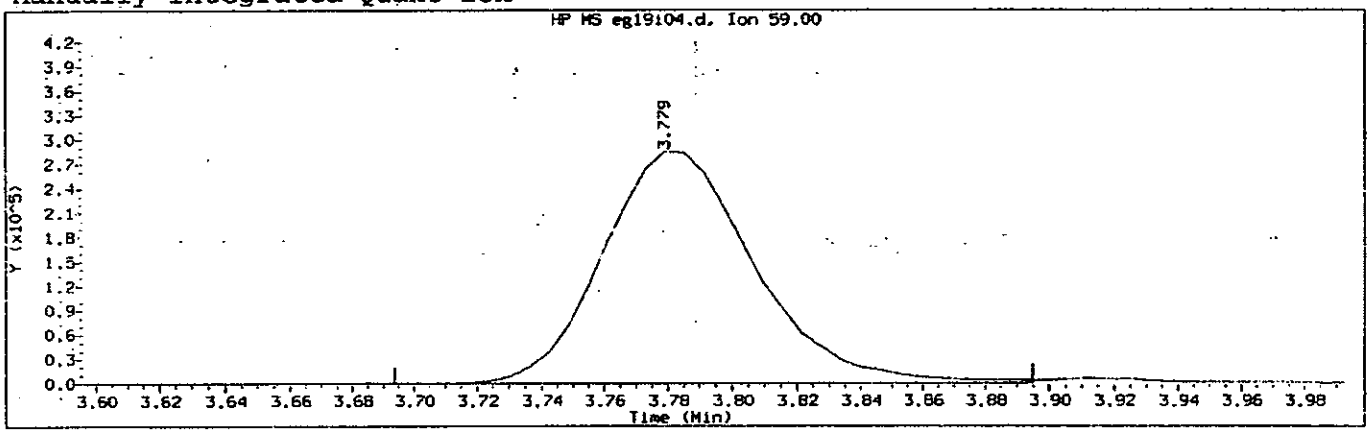
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 458
Retention Time (minutes): 3.779
Quant Ion : 59.00
Area (flag) : 937950M
On-Column Amount (ng) : 50.5367
Integration start scan : 443 Integration stop scan: 476
Y at integration start : 0 Y at integration end: 0

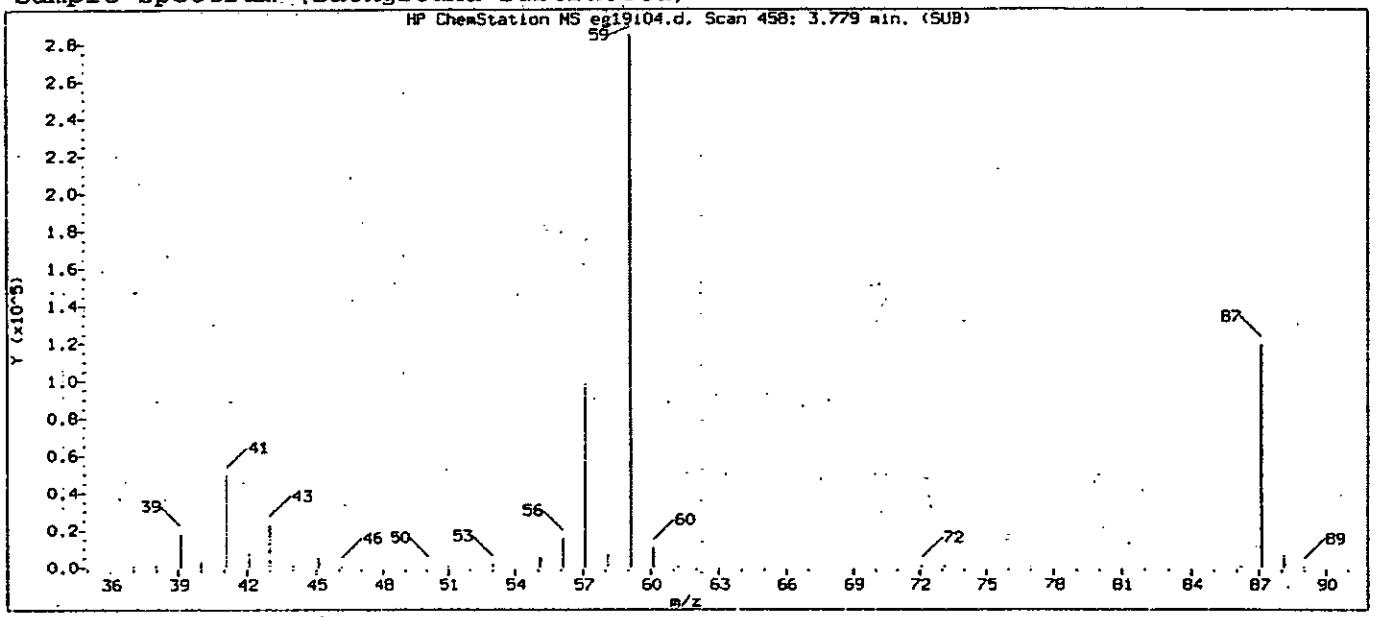
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

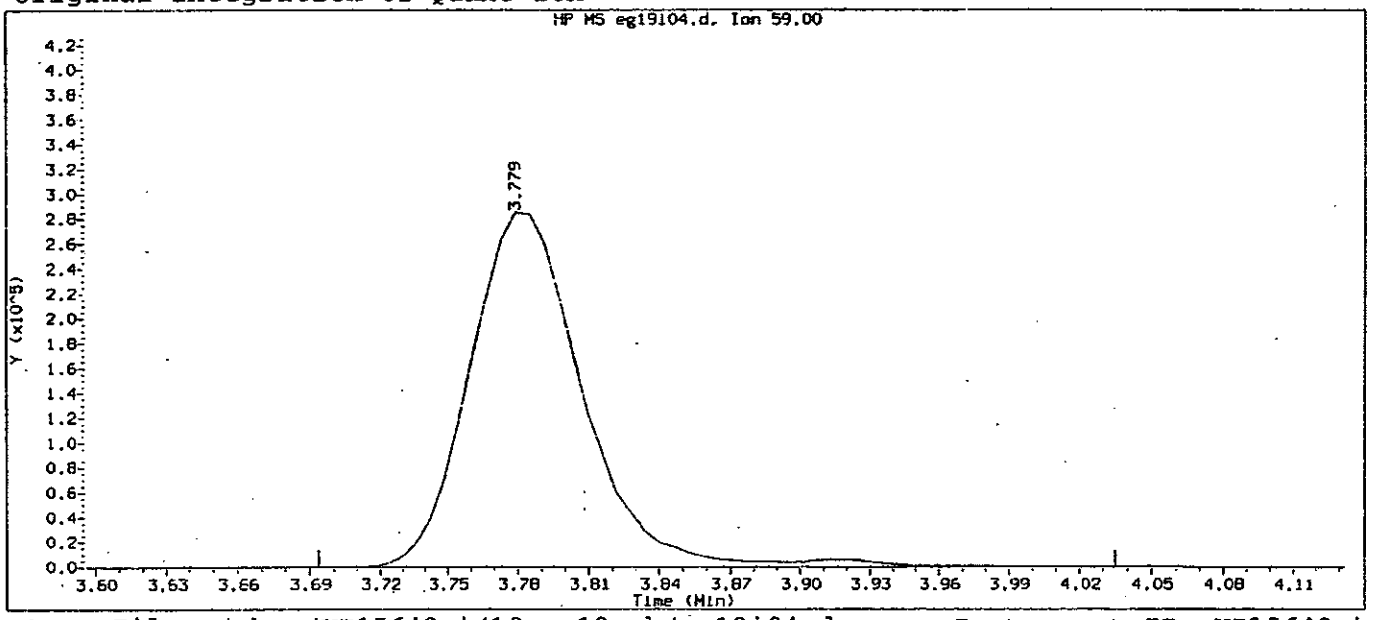
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0251

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID:. HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

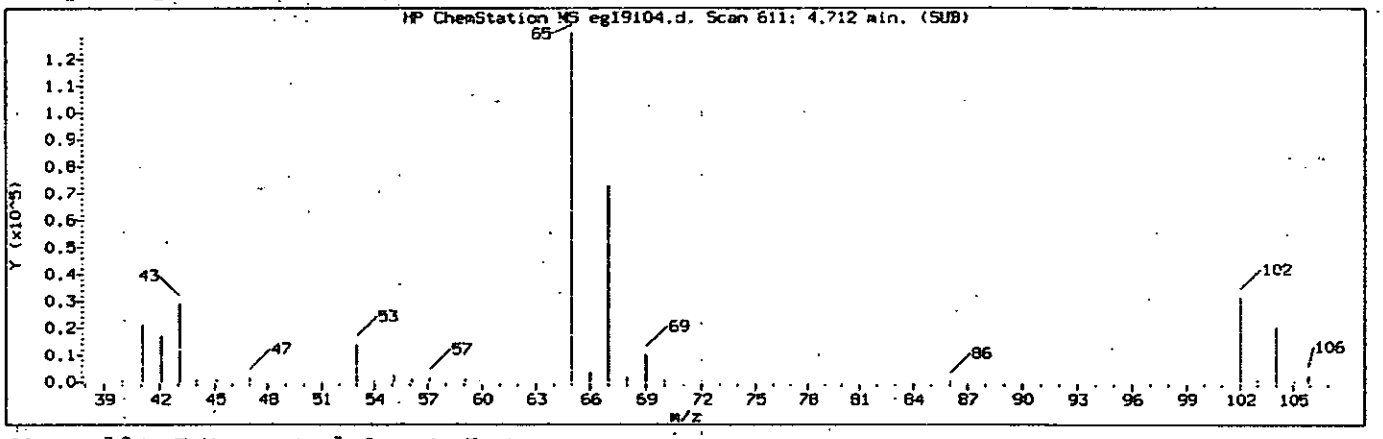
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 458
Retention Time (minutes): 3.779
Quant Ion : 59.00
Area : 956081
On-column Amount (ng) : 49.6605
Integration start scan : 443 Integration stop scan: 499
Y at integration start : 0 Y at integration end: 0

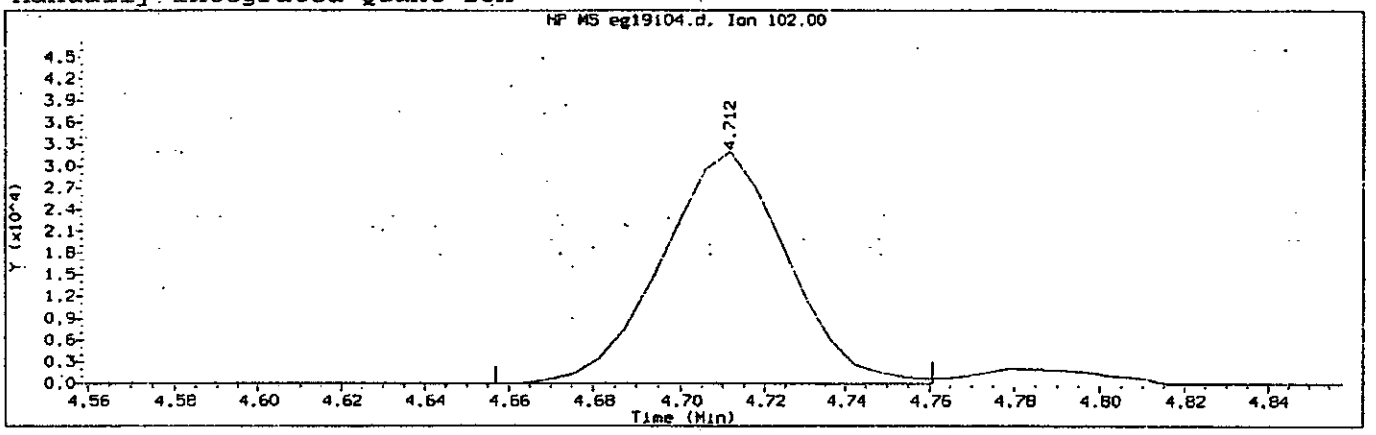
PTL06 0252

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 59
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 611
Retention Time (minutes): 4.712
Quant Ion : 102.00
Area (flag) : 66157M
On-Column Amount (ng) : 49.8326
Integration start scan : 601 Integration stop scan: 618
Y at integration start : 0 Y at integration end: 0

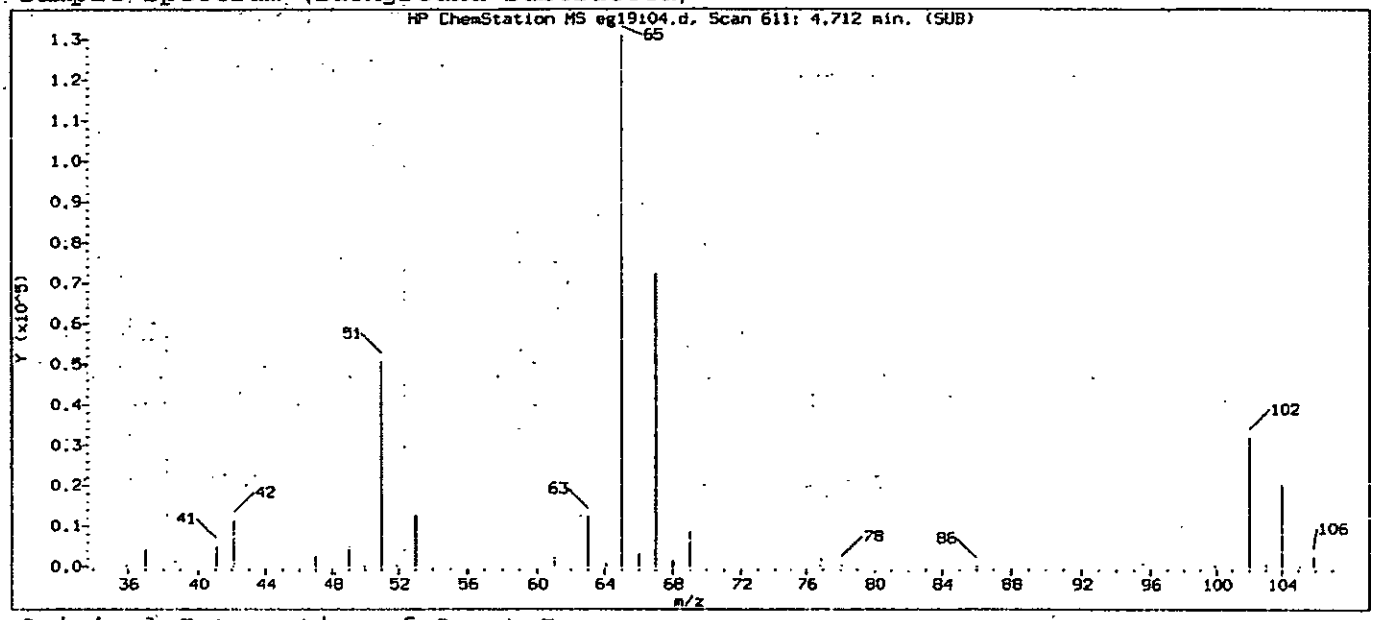
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

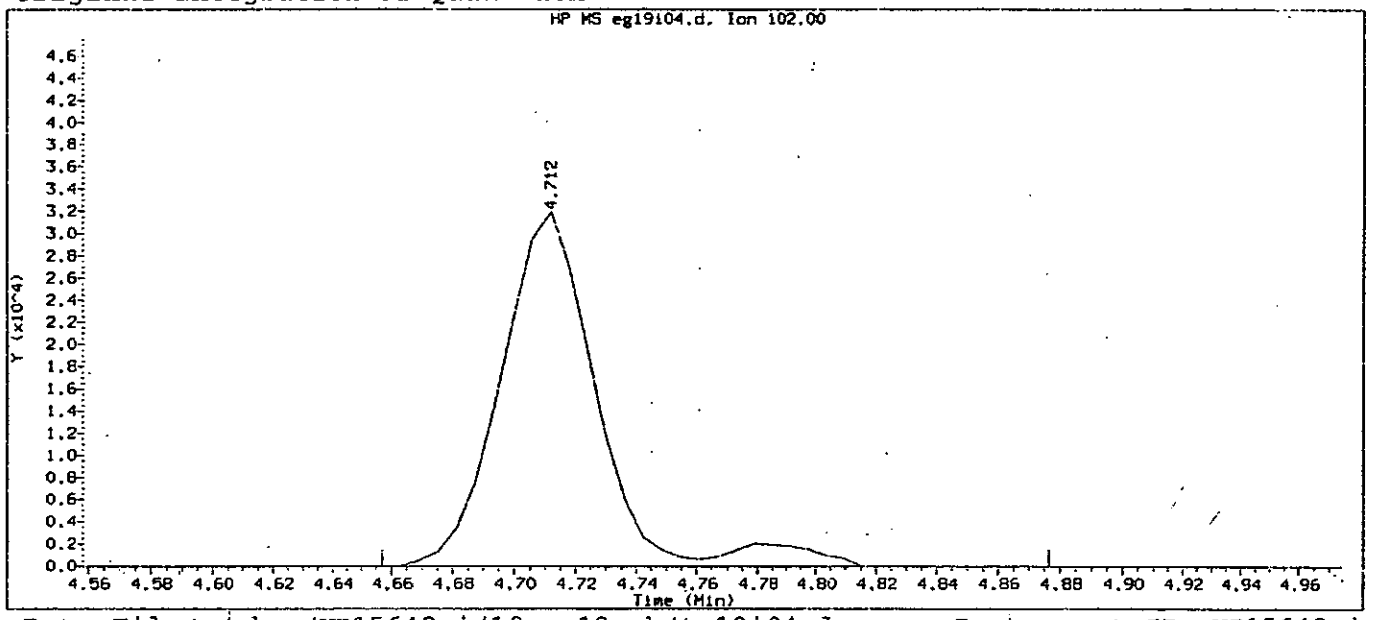
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 0253

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

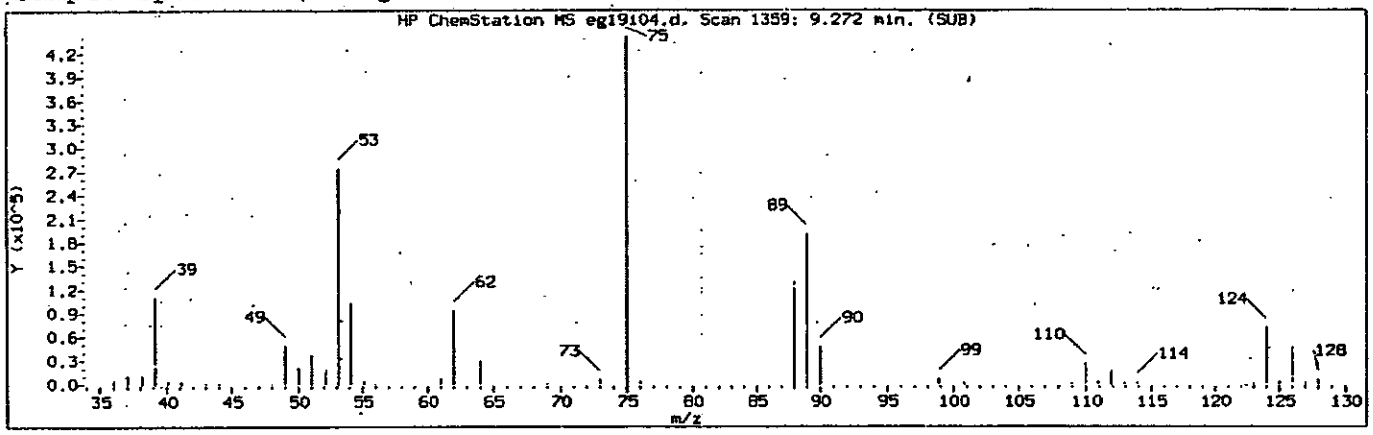
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 59
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 611
Retention Time (minutes): 4.712
Quant Ion : 102.00
Area : 70299
On-column Amount (ng) : 92.5636
Integration start scan : 601 Integration stop scan: 637
Y at integration start : 0 Y at integration end: 0

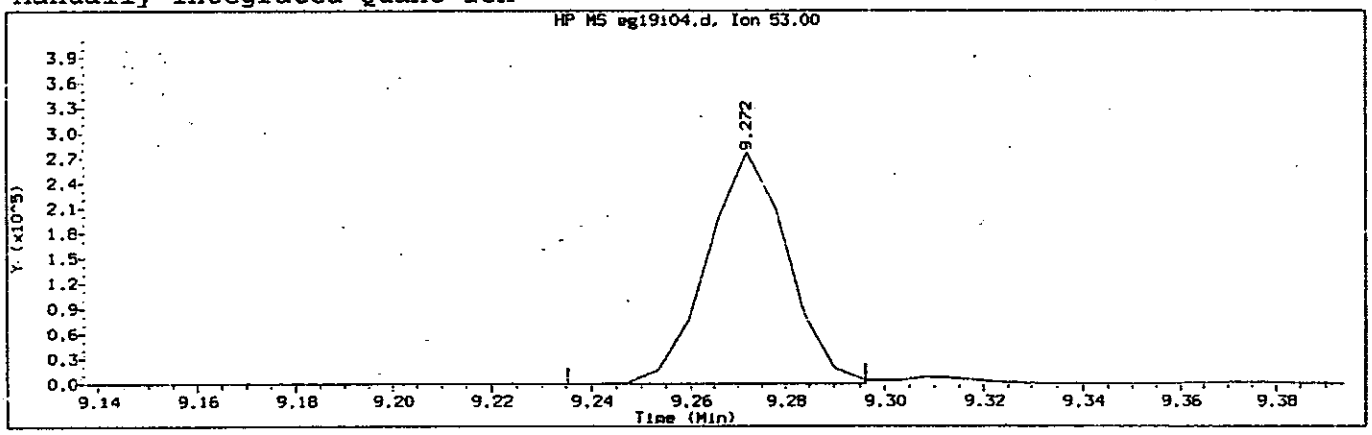
PTL06 0254

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area (flag) : 322496M
On-Column Amount (ng) : 128.3213
Integration start scan : 1352 Integration stop scan: 1362
Y at integration start : 0 Y at integration end: 0

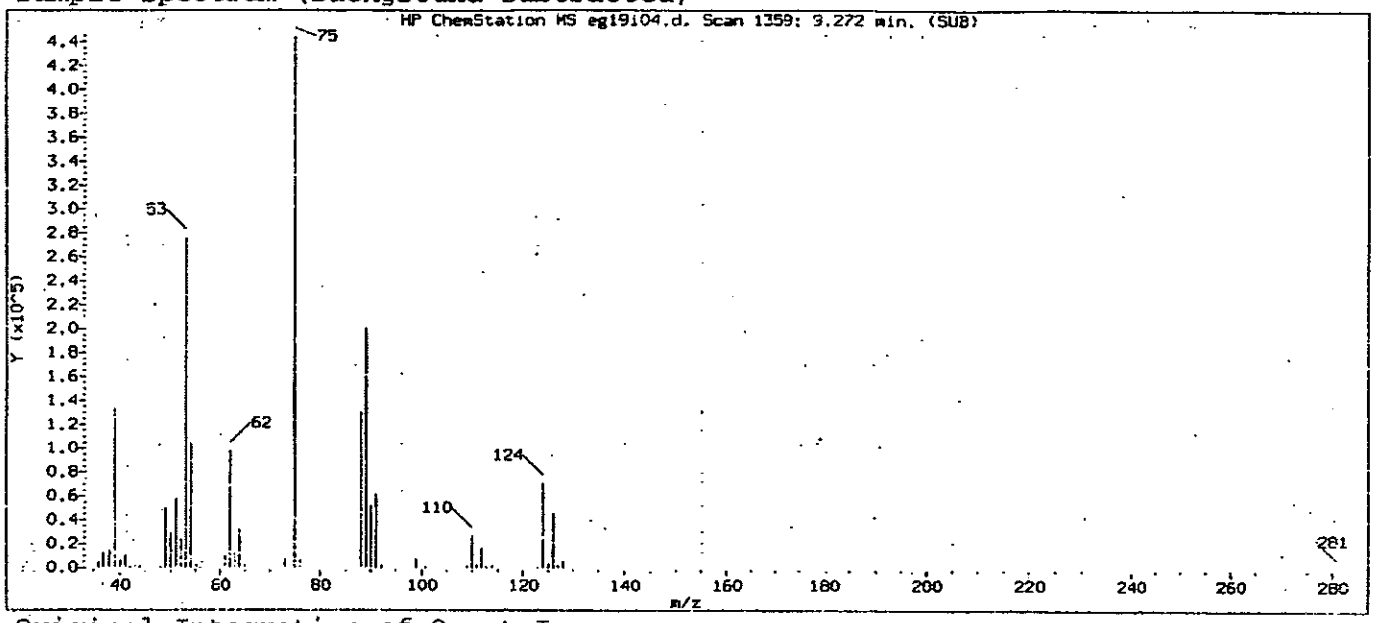
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

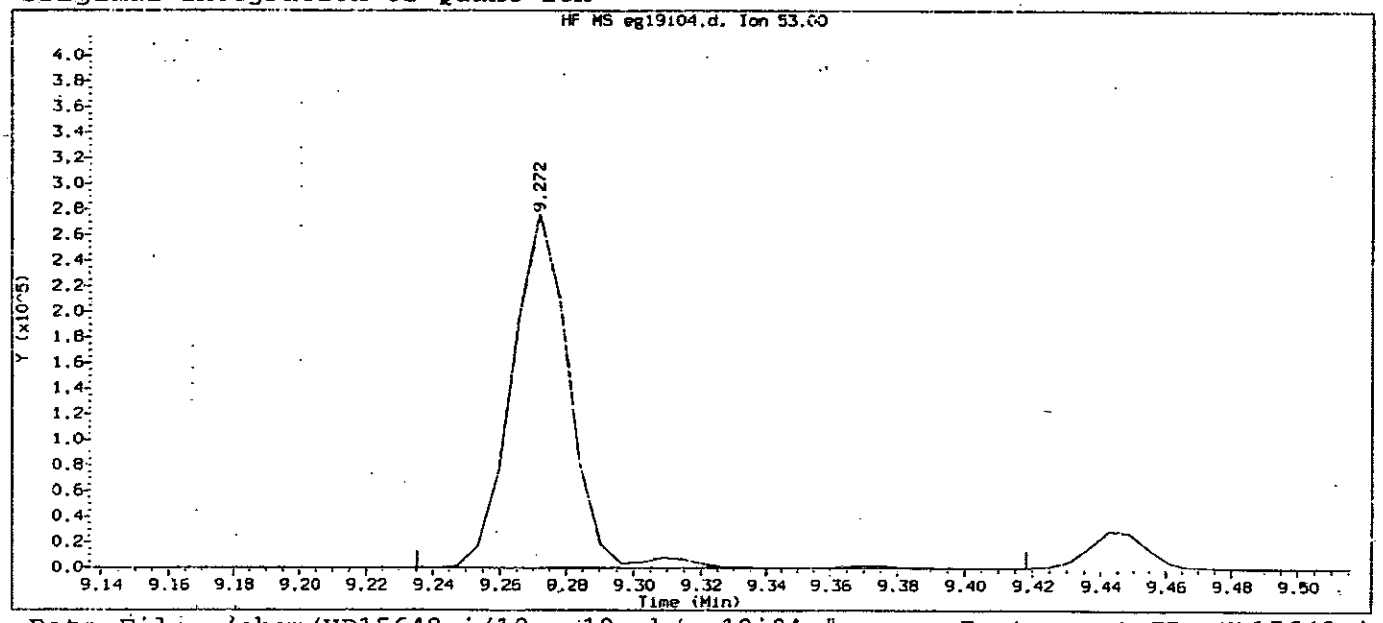
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0255

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

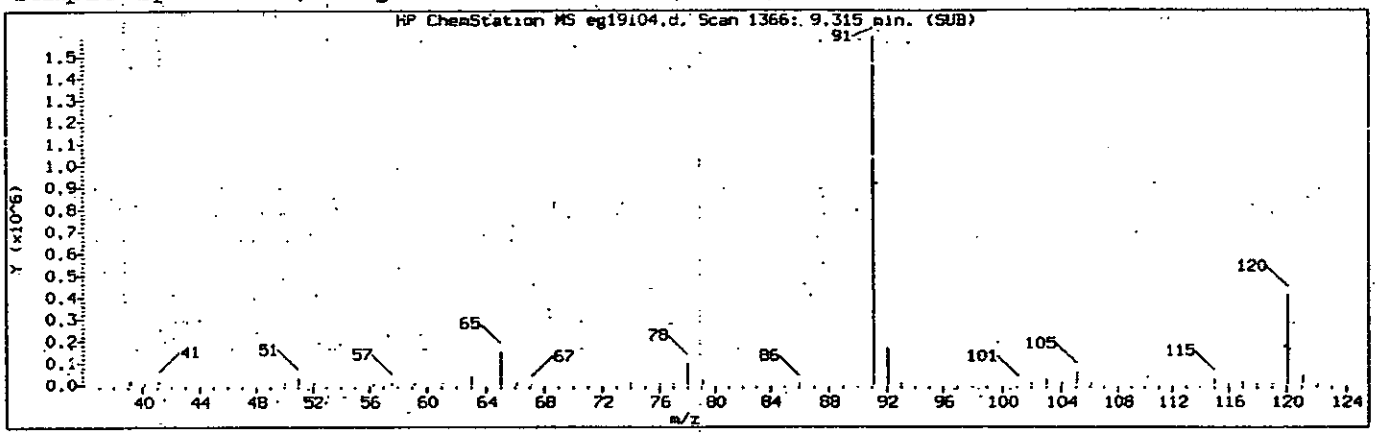
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 333576
On-column Amount (ng) : 117.8685
Integration start scan : 1352 Integration stop scan: 1382
Y at integration start : 0 Y at integration end: 0

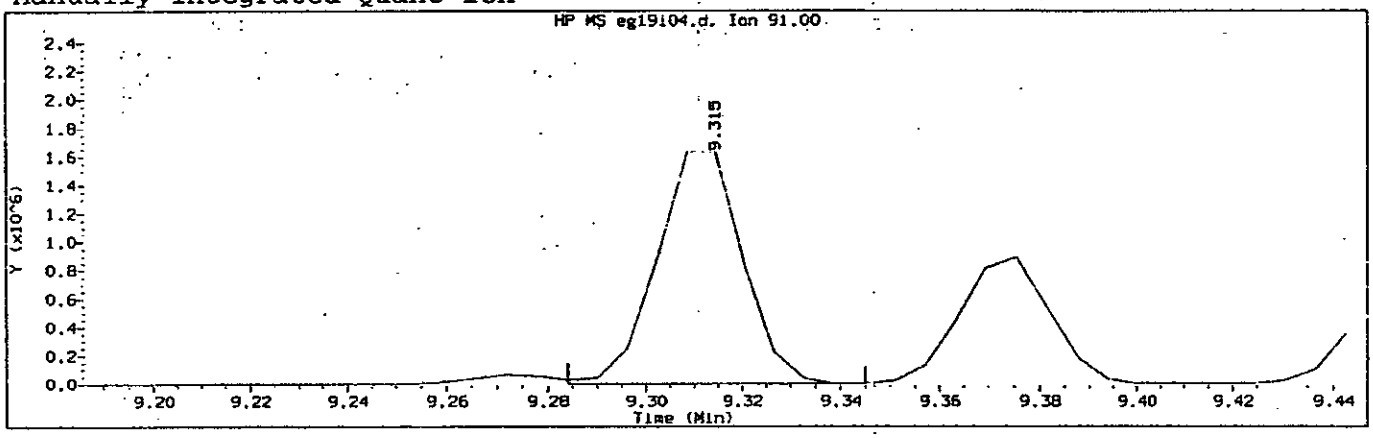
PTL06 0256

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1366
Retention Time (minutes): 9.315
Quant Ion : 91.00
Area (flag) : 2038356M
On-Column Amount (ng) : 51.6473
Integration start scan : 1360 Integration stop scan: 1370
Y at integration start : 0 Y at integration end: 0

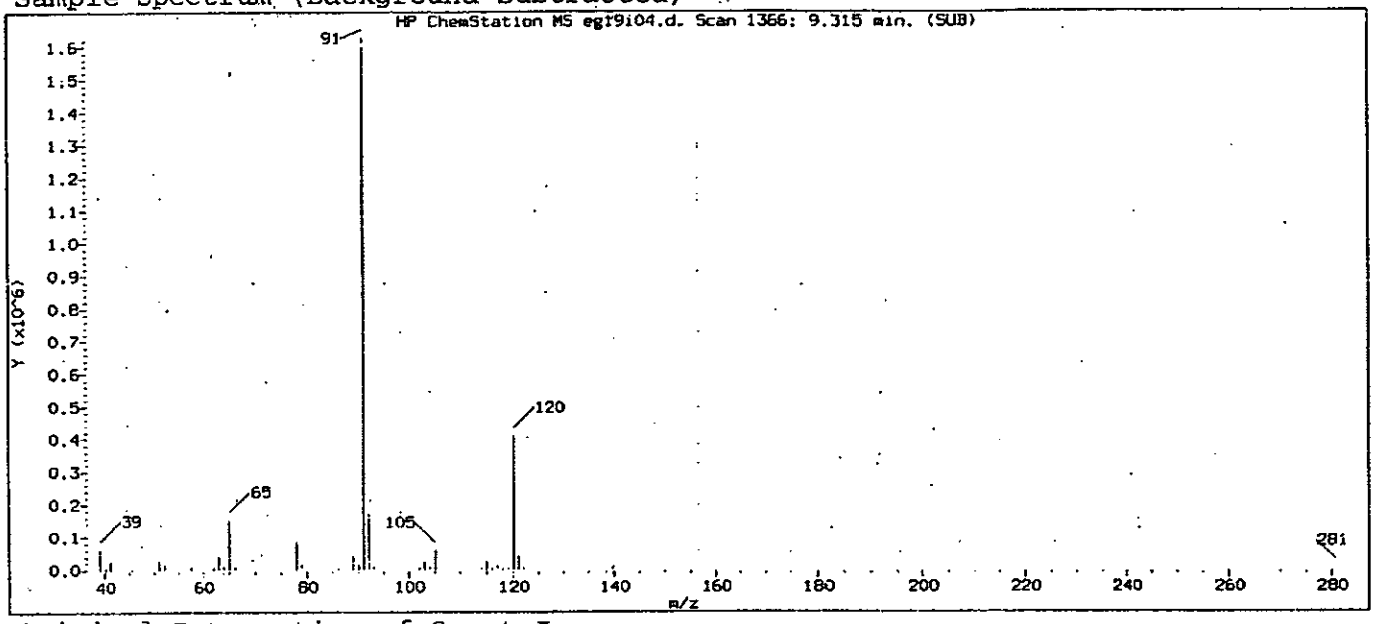
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

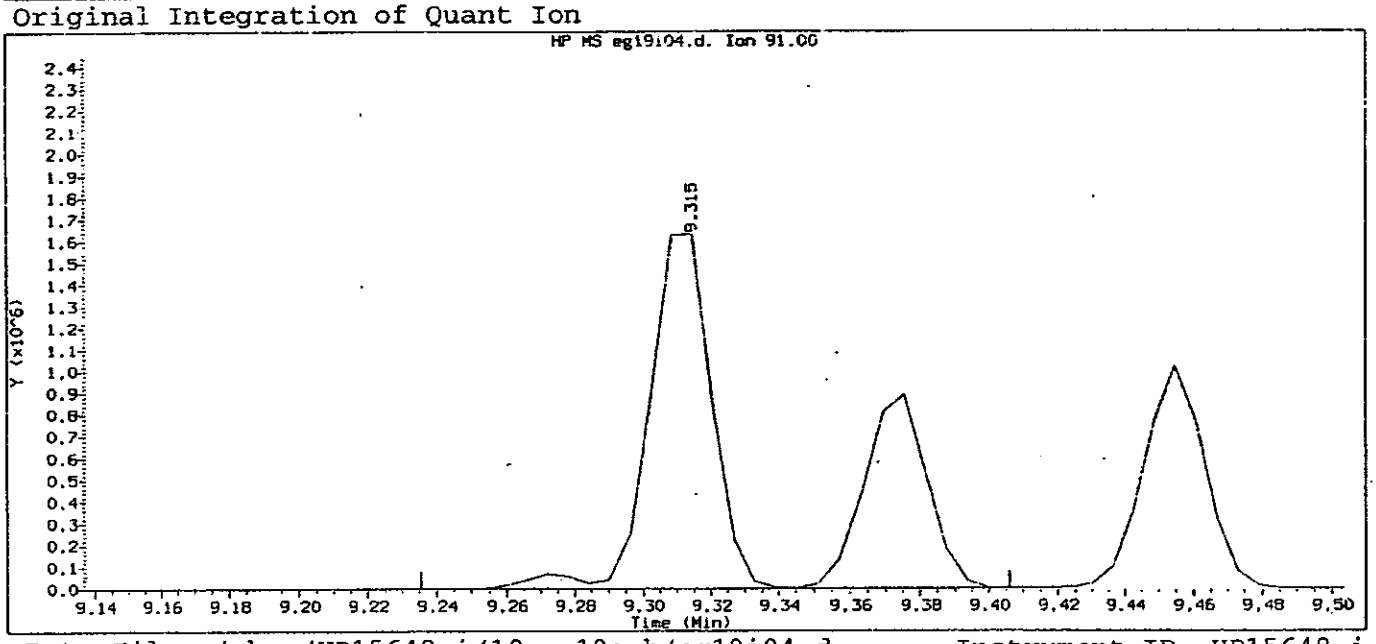
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0257

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a:b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

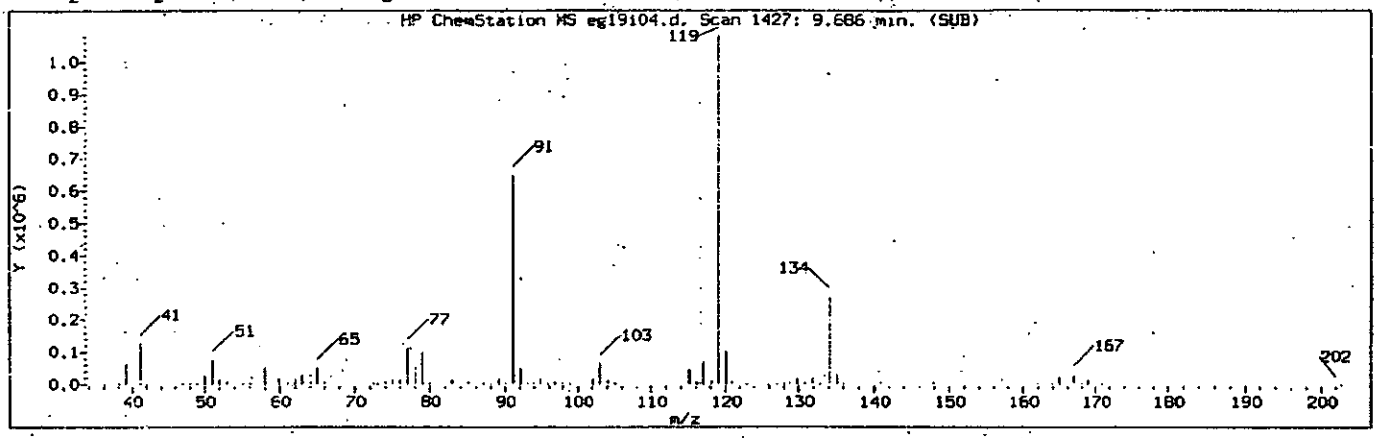
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1366
Retention Time (minutes): 9.315
Quant Ion : 91.00
Area : 3220316
On-column Amount (ng) : 57.3745
Integration start scan : 1352 Integration stop scan: 1380
Y at integration start : 0 Y at integration end: 0

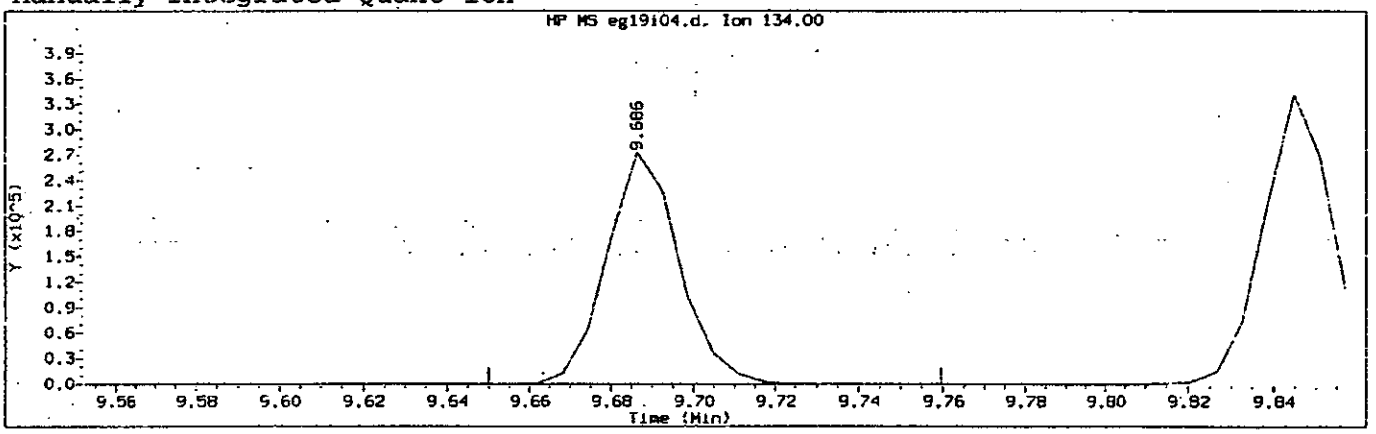
PTL86 8258

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	:	127
Compound Name	:	tert-Butylbenzene
Scan Number	:	1427
Retention Time (minutes)	:	9.686
Quant Ion	:	134.00
Area (flag)	:	333295M
On-Column Amount (ng)	:	49.7042
Integration start scan	:	1420 Integration stop scan: 1438
Y at integration start	:	0 Y at integration end: 0

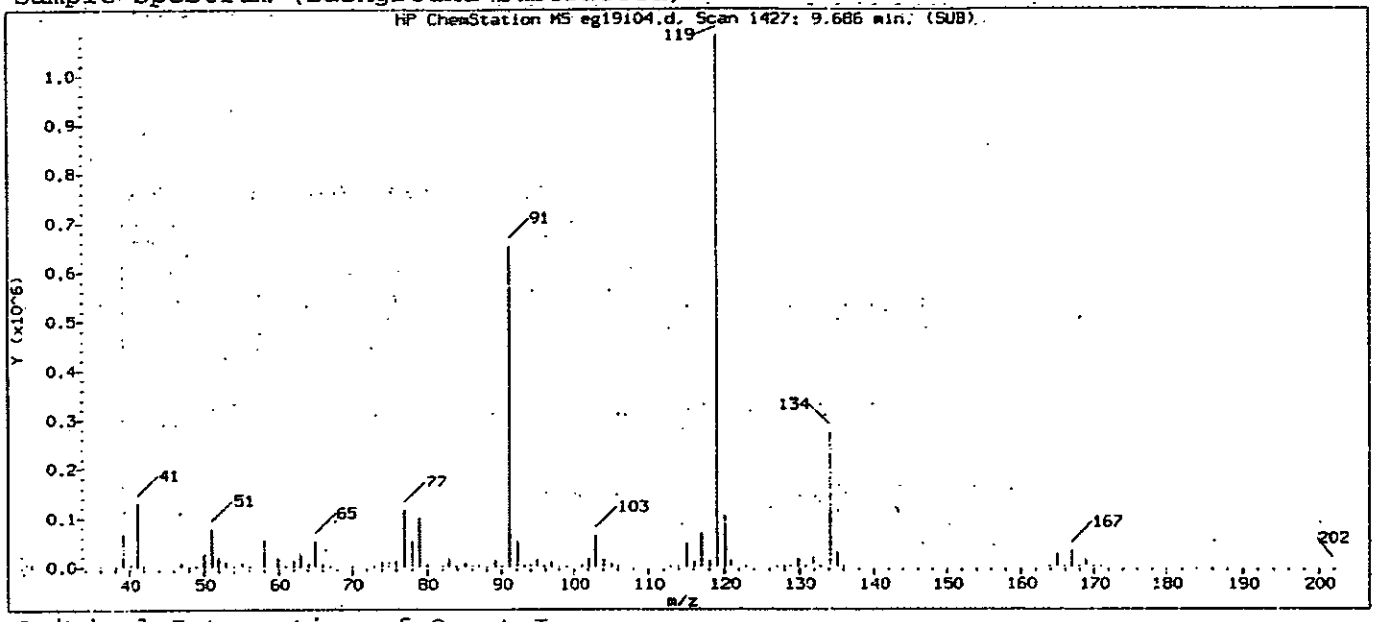
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

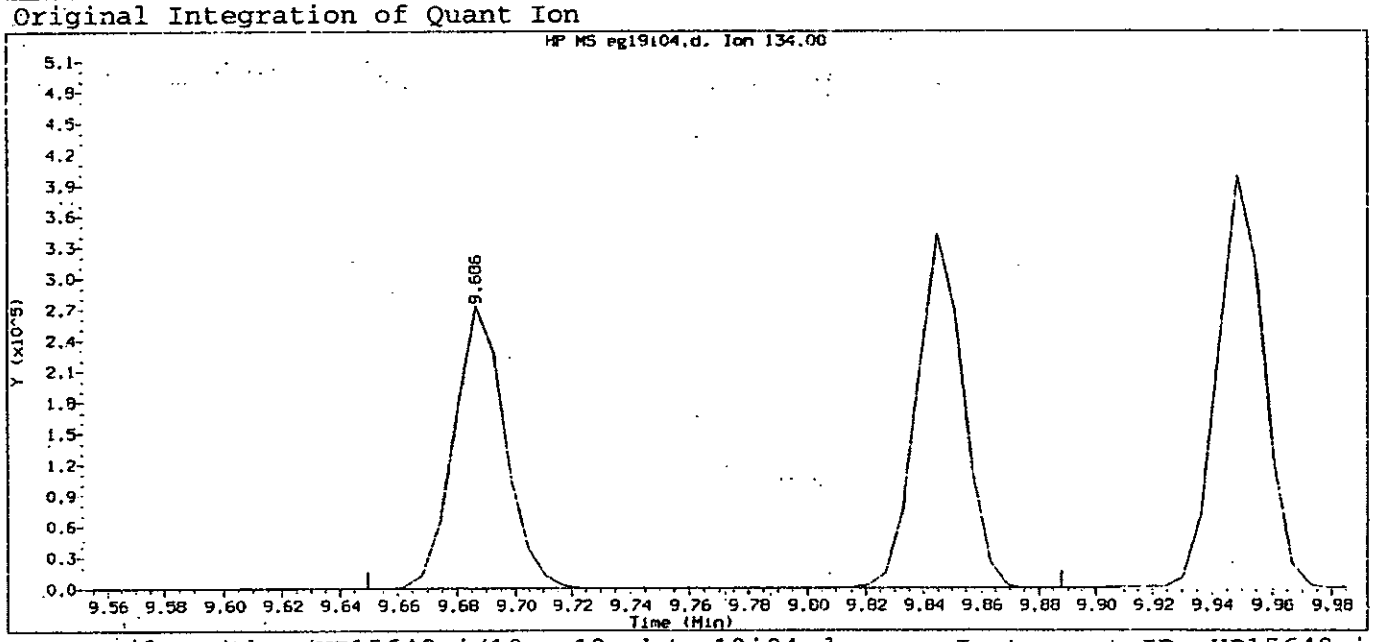
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0259

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

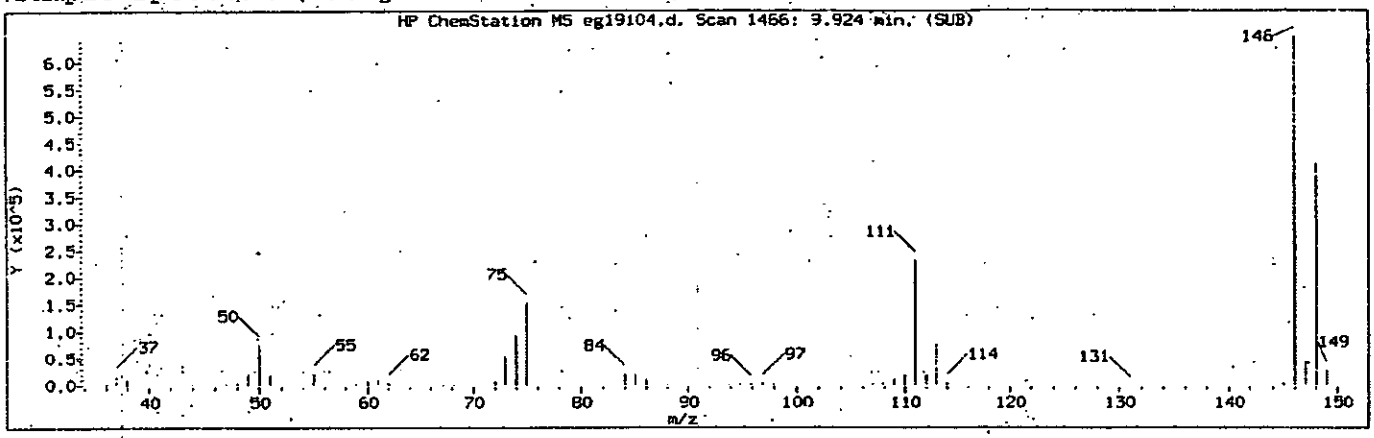
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 127
Compound Name : tert-Butylbenzene
Scan Number : 1427
Retention Time (minutes): 9.686
Quant Ion : 134.00
Area : 720166
On-column Amount (ng) : 59.6879
Integration start scan : 1420 Integration stop scan: 1459
Y at integration start : 0 Y at integration end: 0

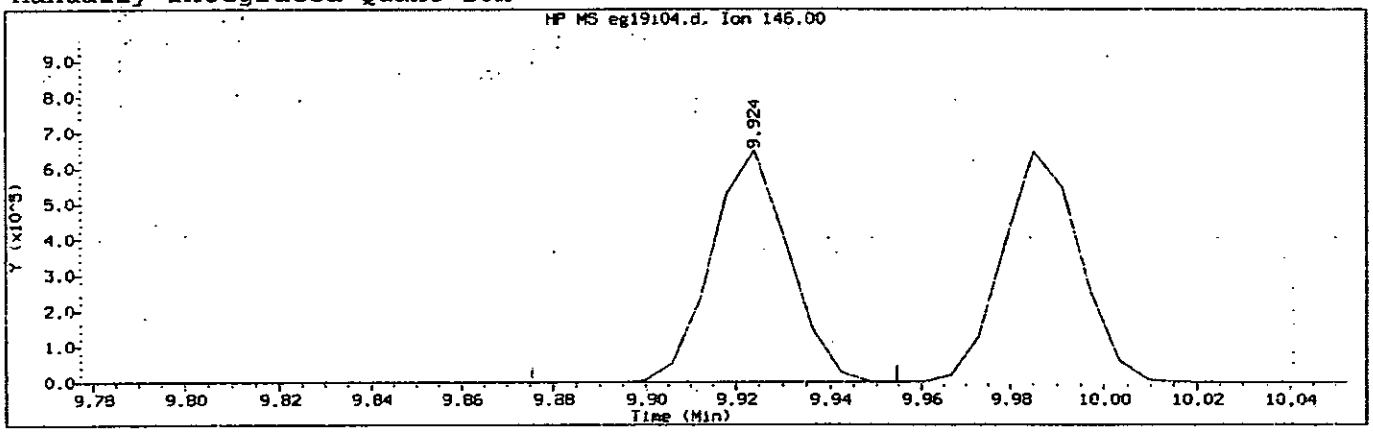
PTL06 8260

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

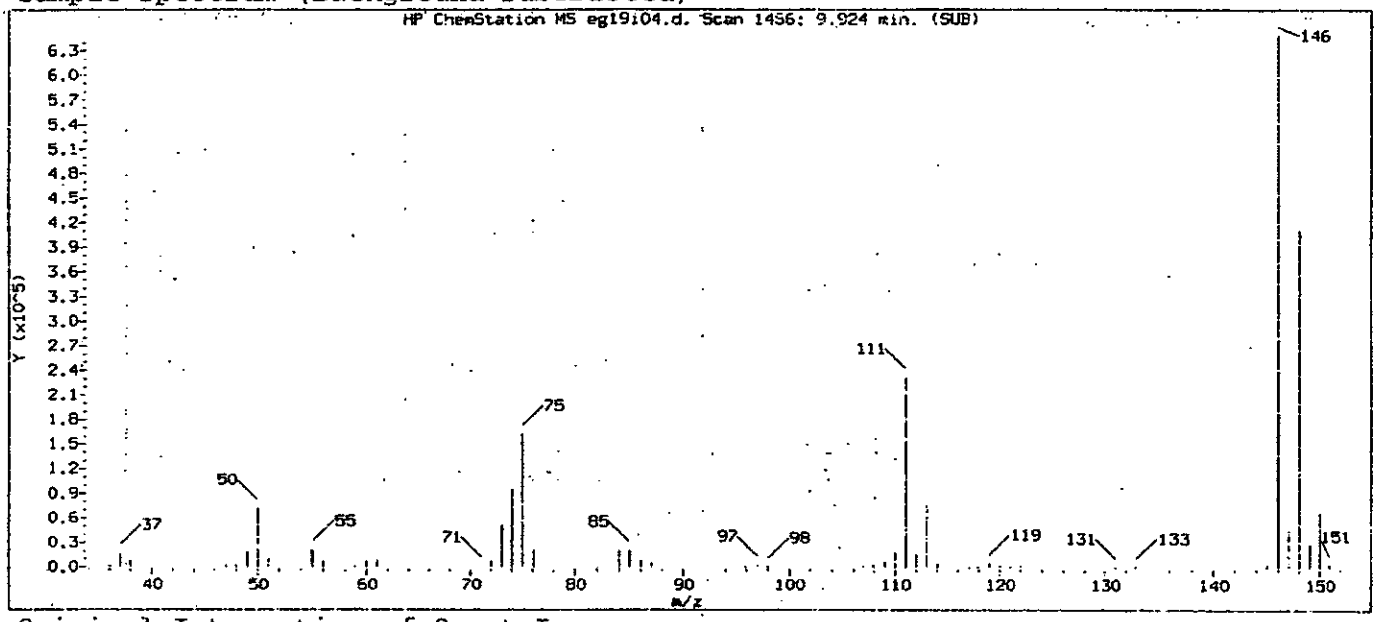
Compound Number	: 133
Compound Name	: 1,3-Dichlorobenzene
Scan Number	: 1466
Retention Time (minutes)	: 9.924
Quant Ion	: 146.00
Area (flag)	: 752240M
On-Column Amount (ng)	: 50.4400
Integration start scan	: 1457 Integration stop scan: 1470
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration: improper integration

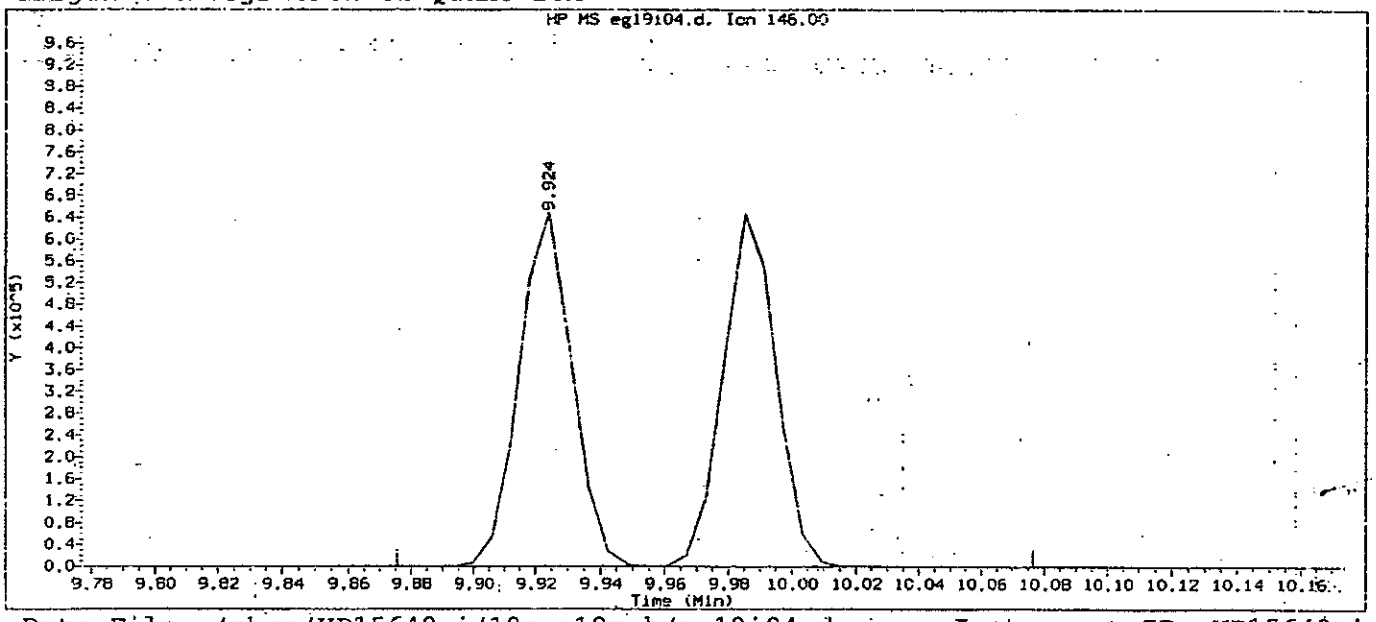
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval [signature] 8/20/10 PTL86 8251

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

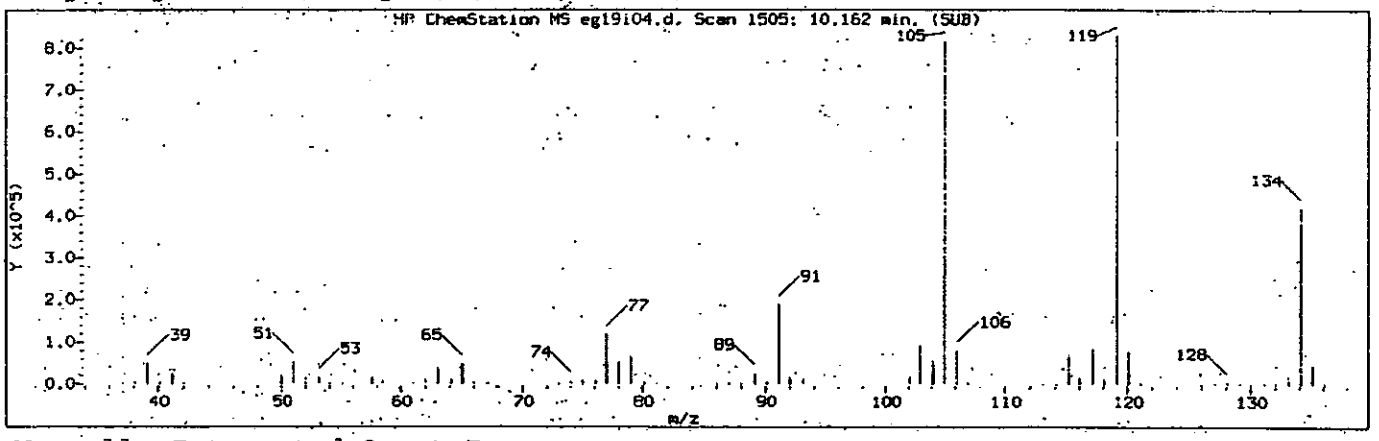
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 133
Compound Name : 1,3-Dichlorobenzene
Scan Number : 1466
Retention Time (minutes): 9.924
Quant Ion : 146.00
Area : 1505437
On-column Amount (ng) : 59.3885
Integration start scan : 1457 Integration stop scan: 1490
Y at integration start : 0 Y at integration end: 0

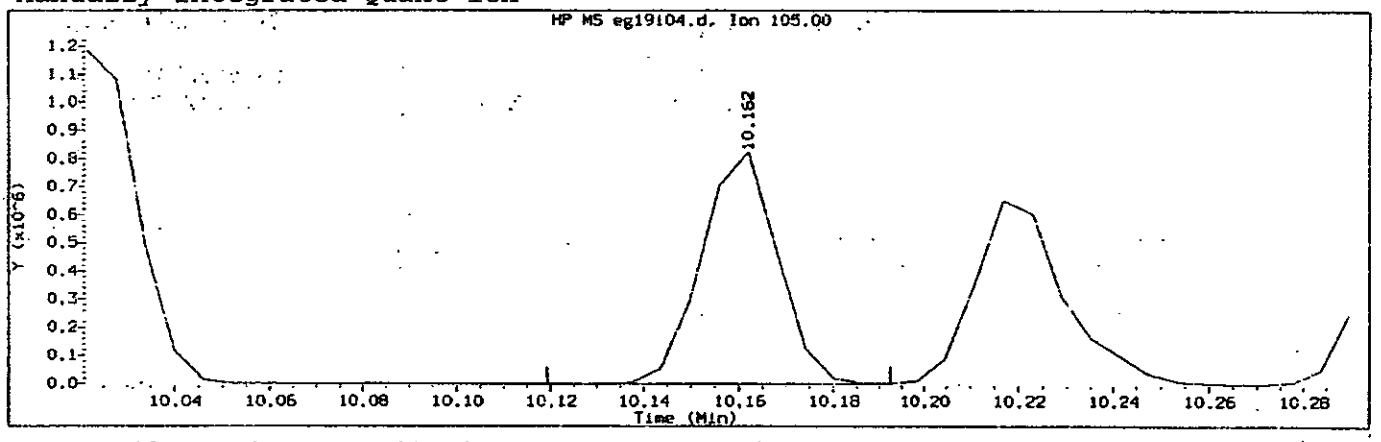
PTL06 0262

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 139	
Compound Name	: 1,3-Diethylbenzene	
Scan Number	: 1505	
Retention Time (minutes)	: 10.162	
Quant Ion	: 105.00	
Area (flag)	: 913304M	
On-Column Amount (ng)	: 51.4242	
Integration start scan	: 1497	Integration stop scan: 1509
Y at integration start	: 0	Y at integration end: 0

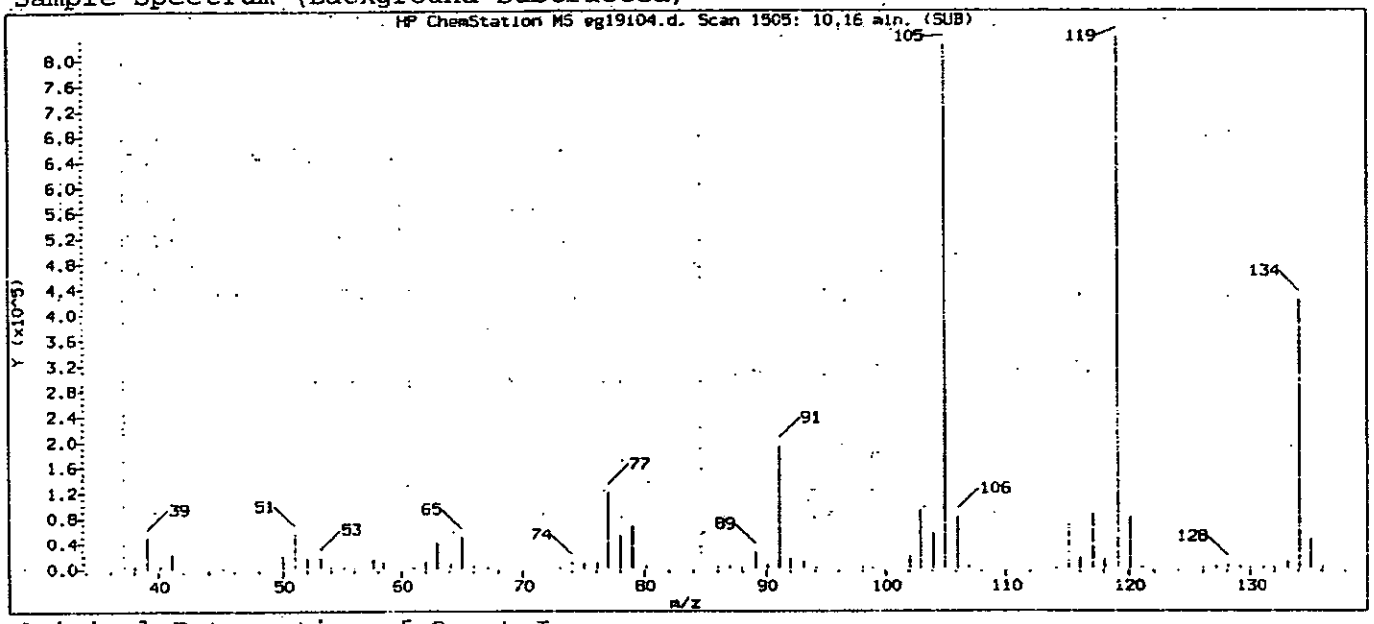
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

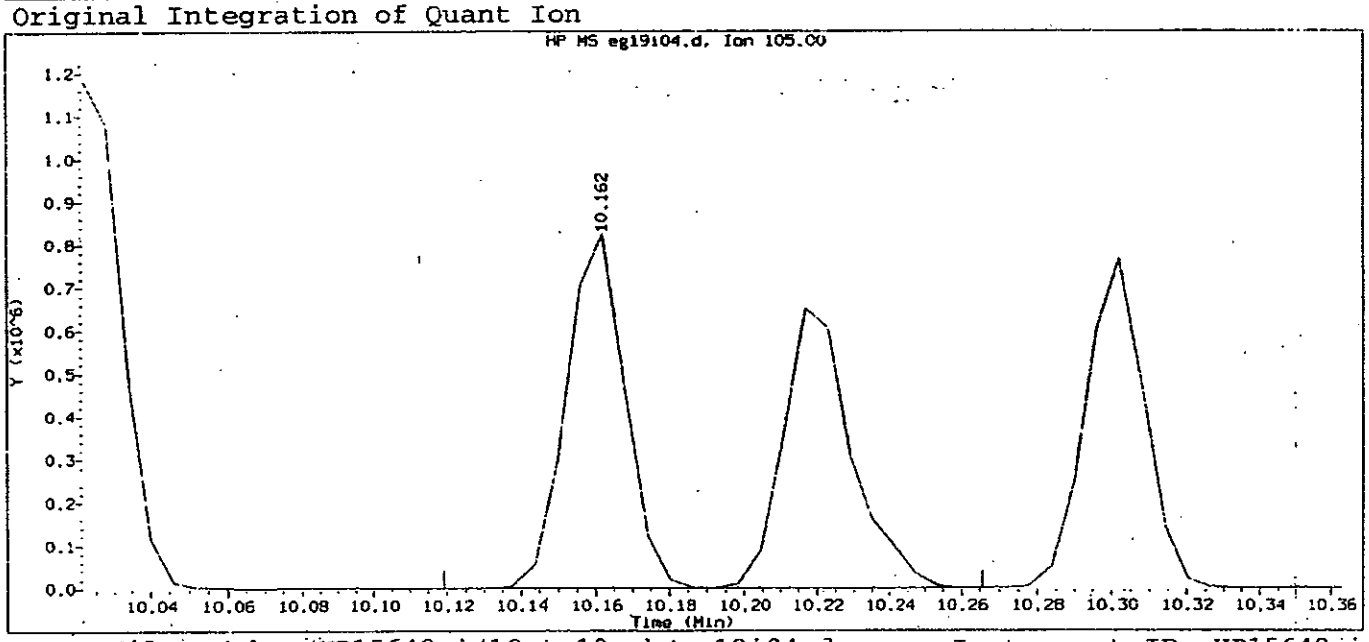
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0263

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

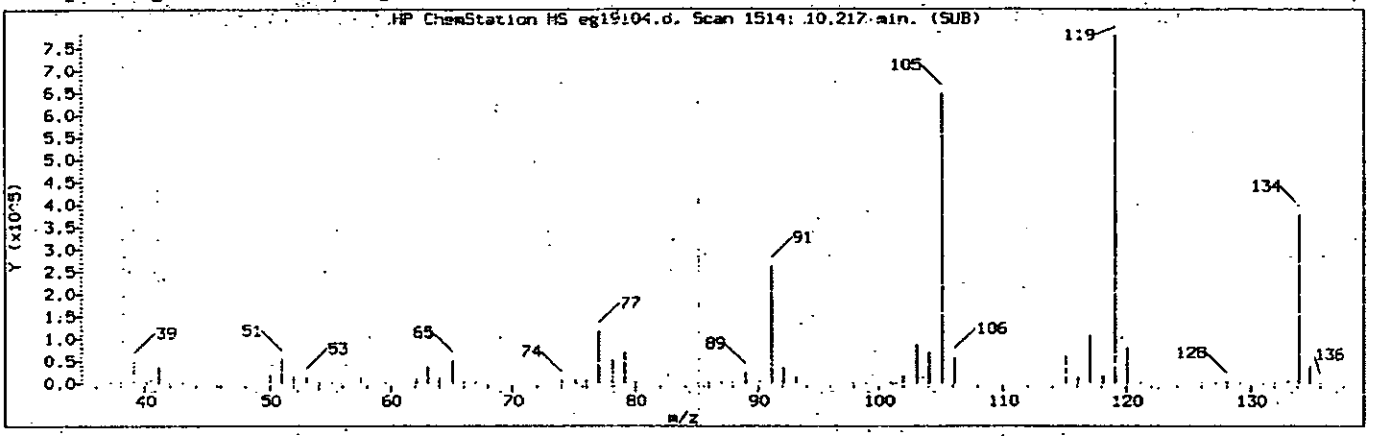
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 139
Compound Name : 1,3-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 1759720
On-column Amount (ng) : 72.0871
Integration start scan : 1497 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

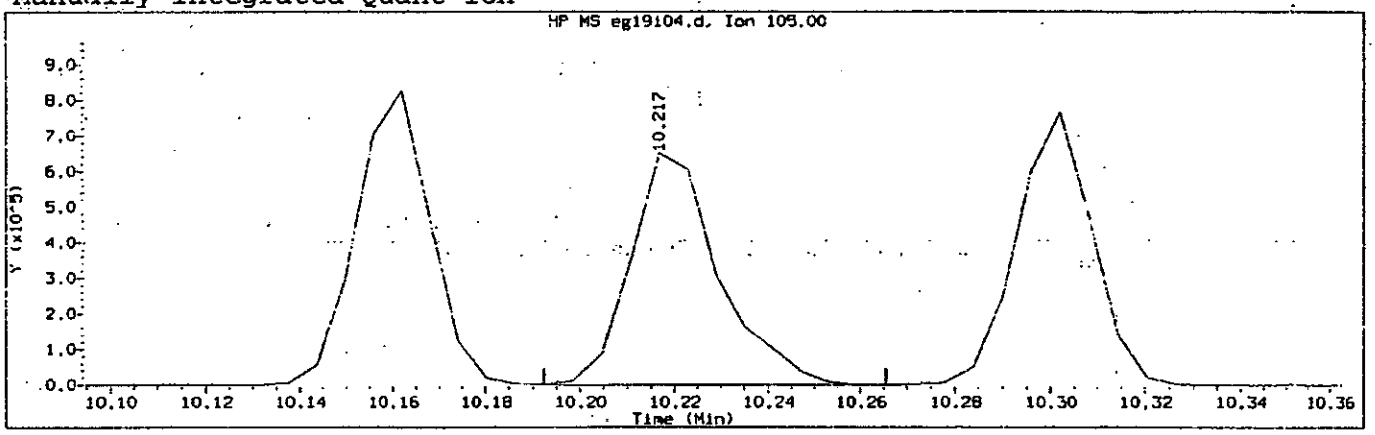
PTL06 0264

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1514
Retention Time (minutes): 10.217
Quant Ion : 105.00
Area (flag) : 847063M
On-Column Amount (ng) : 51.2893
Integration start scan : 1509 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

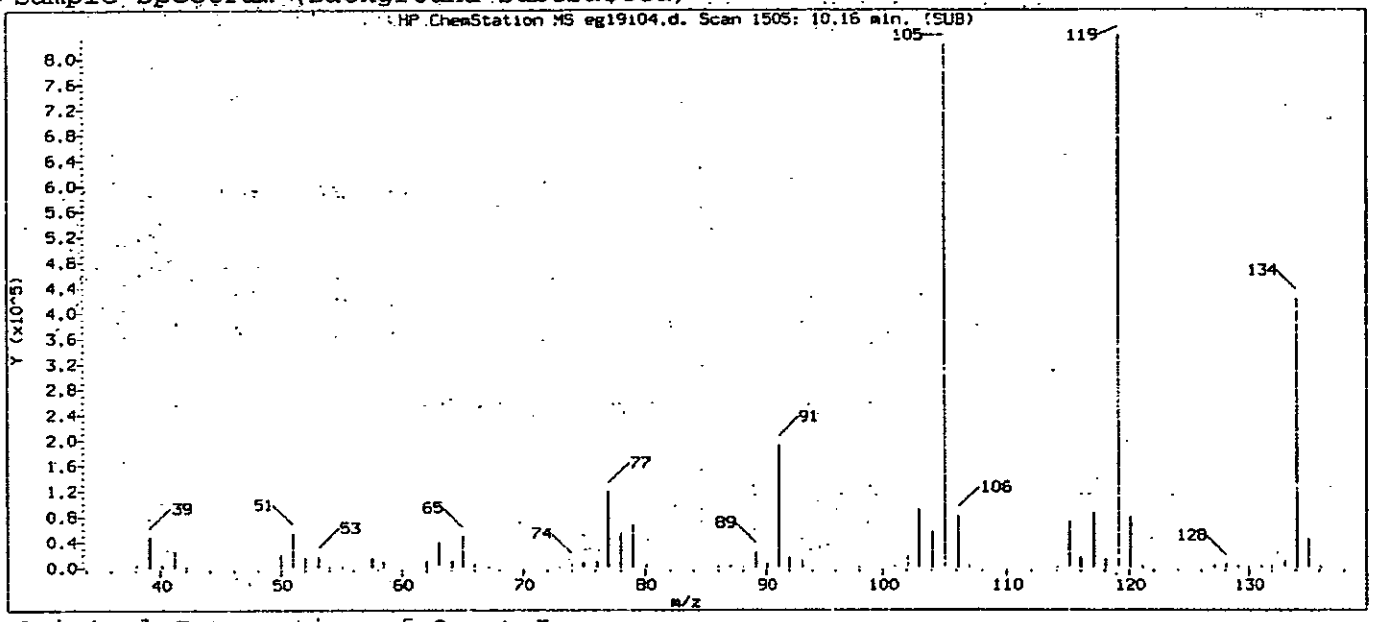
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

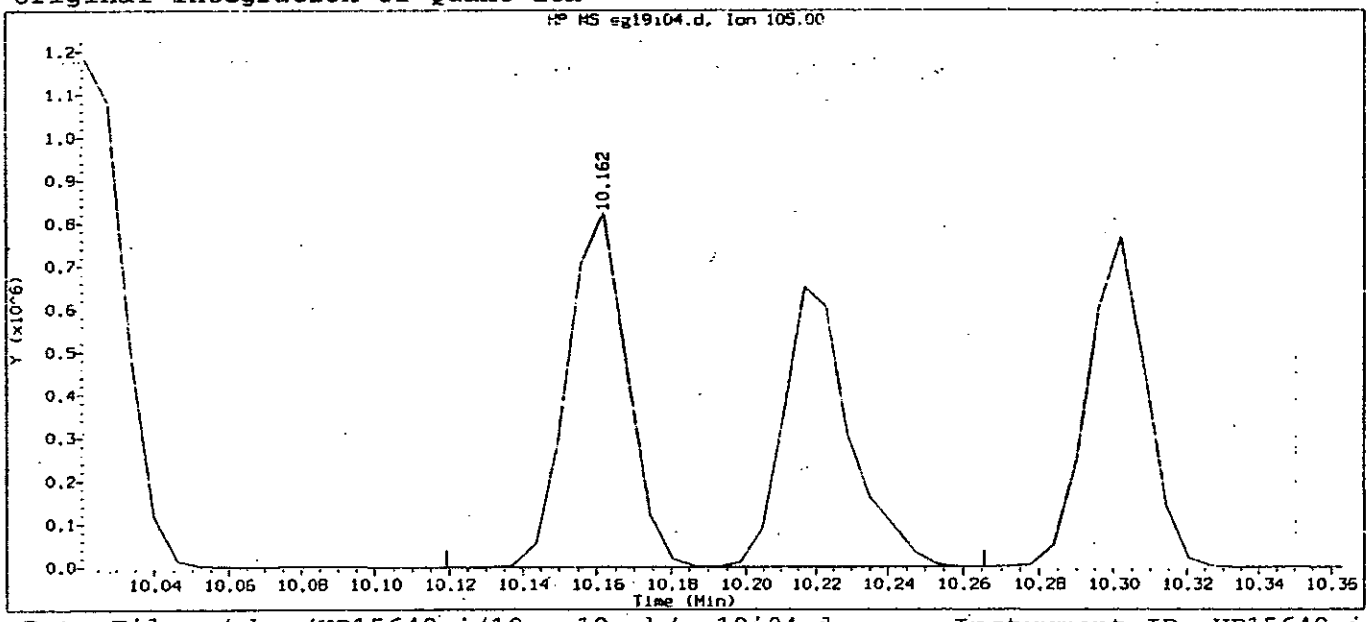
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 #265

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W:m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

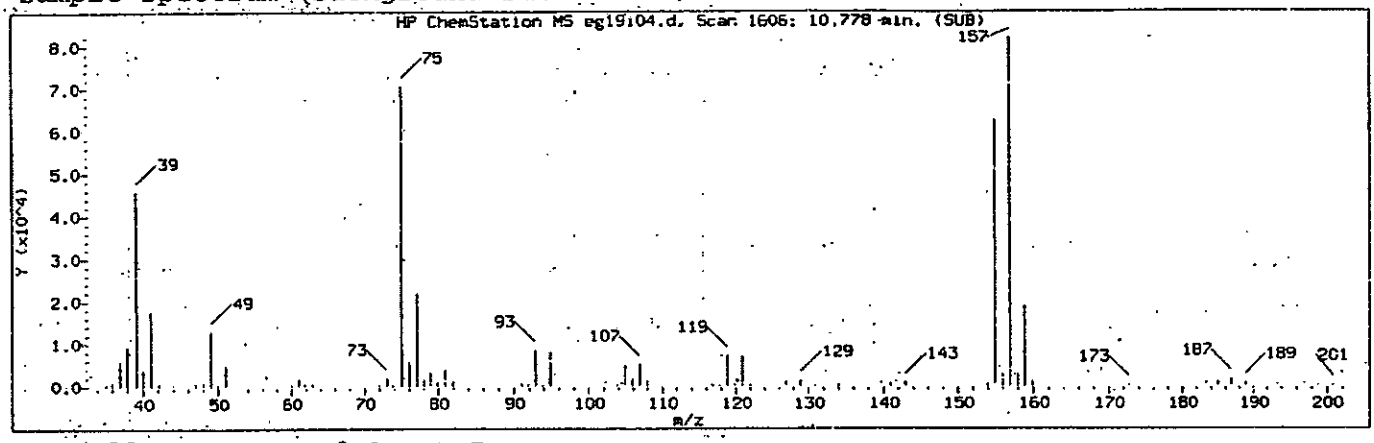
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 1759720
On-column Amount (ng) : 74.8374
Integration start scan : 1497 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

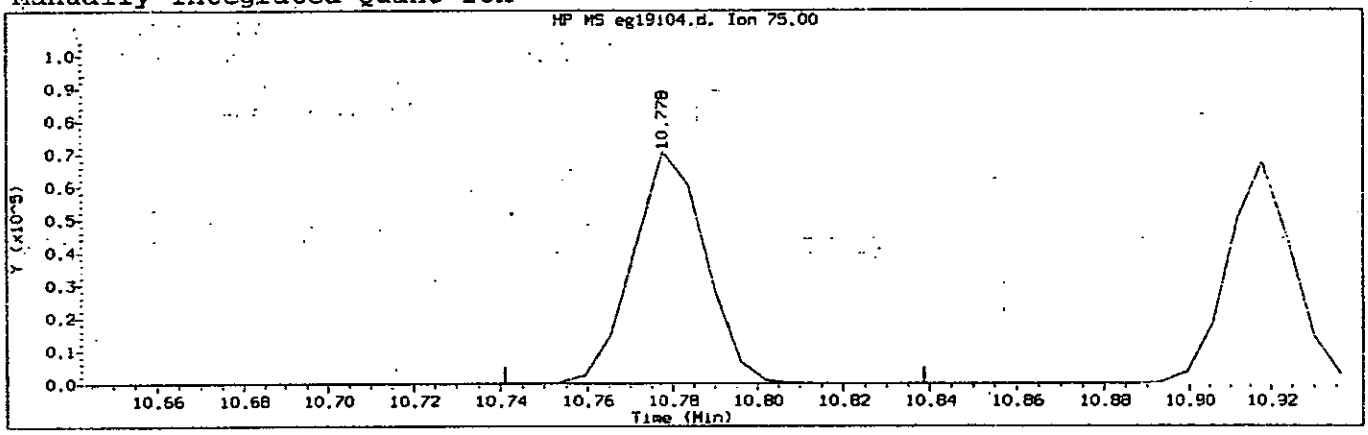
PTL86 0266

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area (flag) : 83445M
On-Column Amount (ng) : 53.9510
Integration start scan : 1599 Integration stop scan: 1615
Y at integration start : 0 Y at integration end: 0

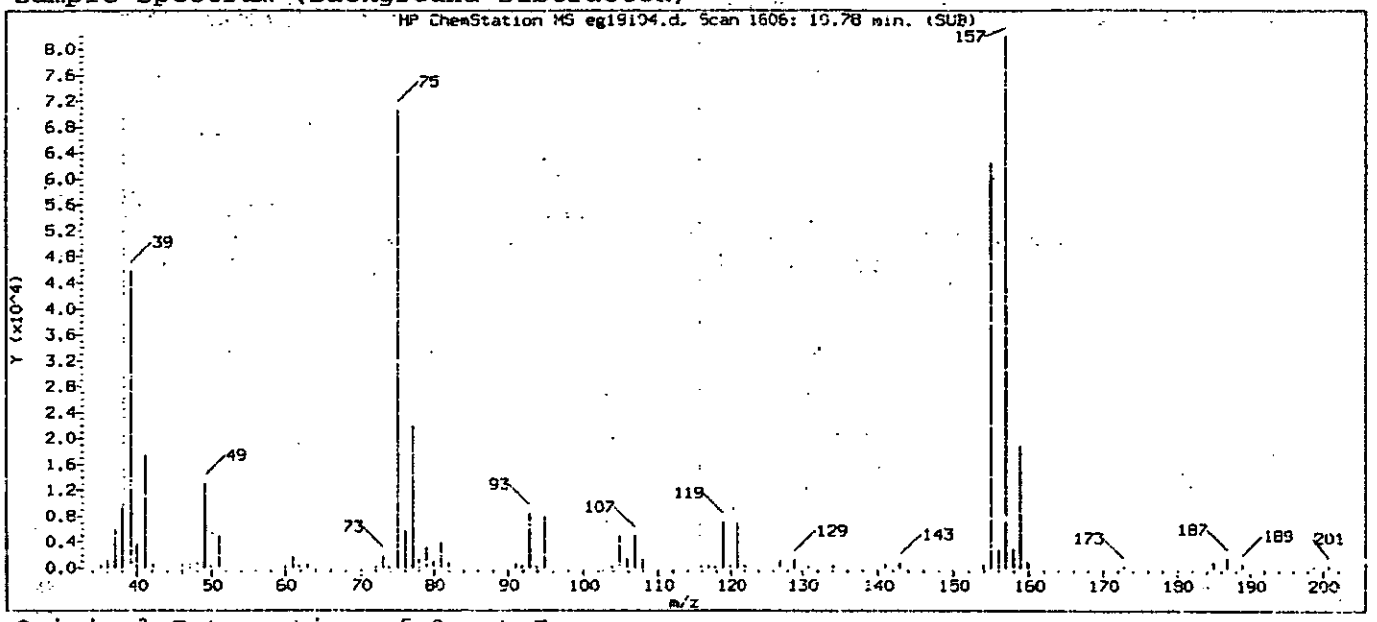
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

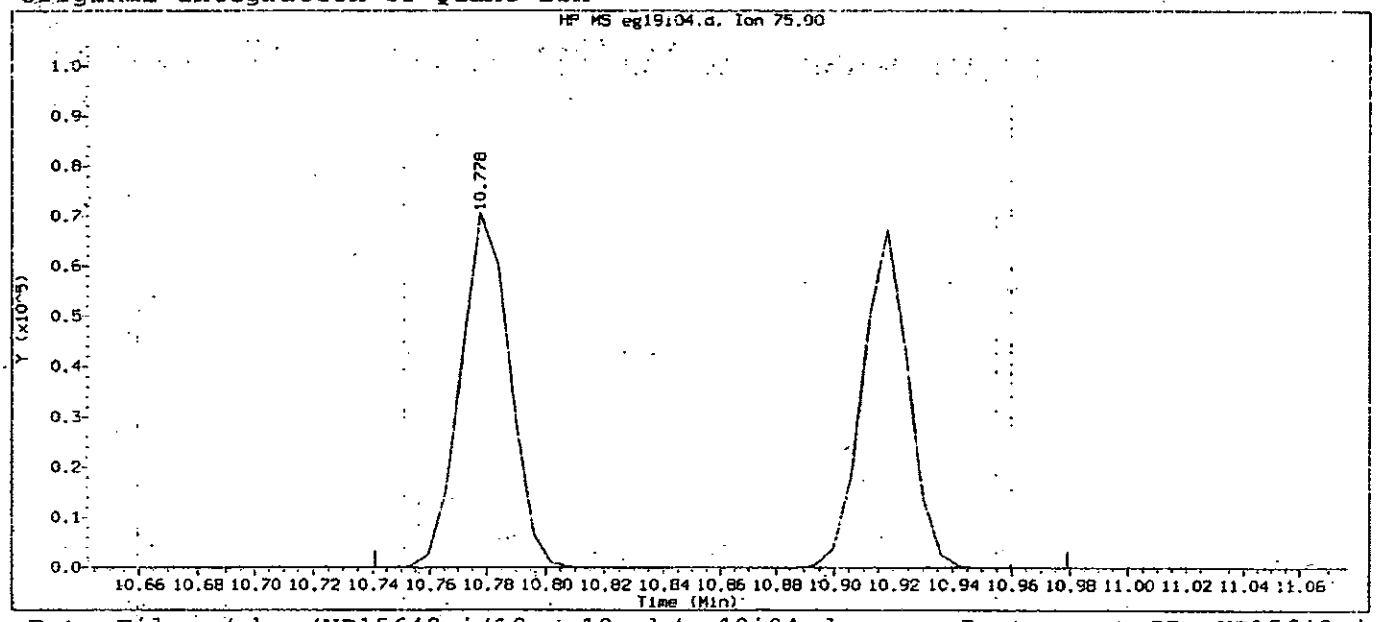
GC/MS audit/management approval: 8/20/10

PTL86 0267

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

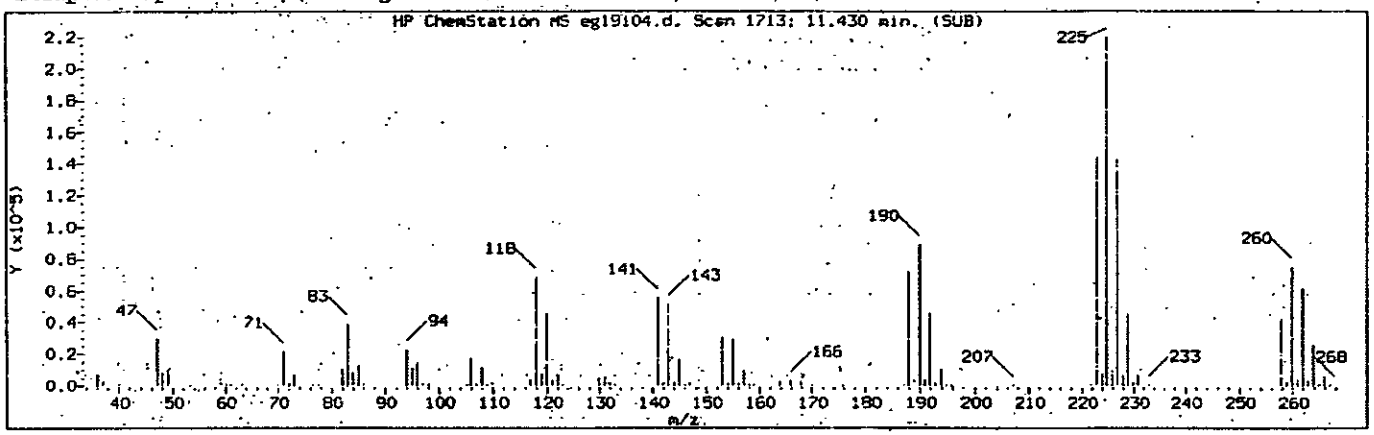
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area : 156542
On-column Amount (ng) : 47.2597
Integration start scan : 1599 Integration stop scan: 1638
Y at integration start : 0 Y at integration end: 0

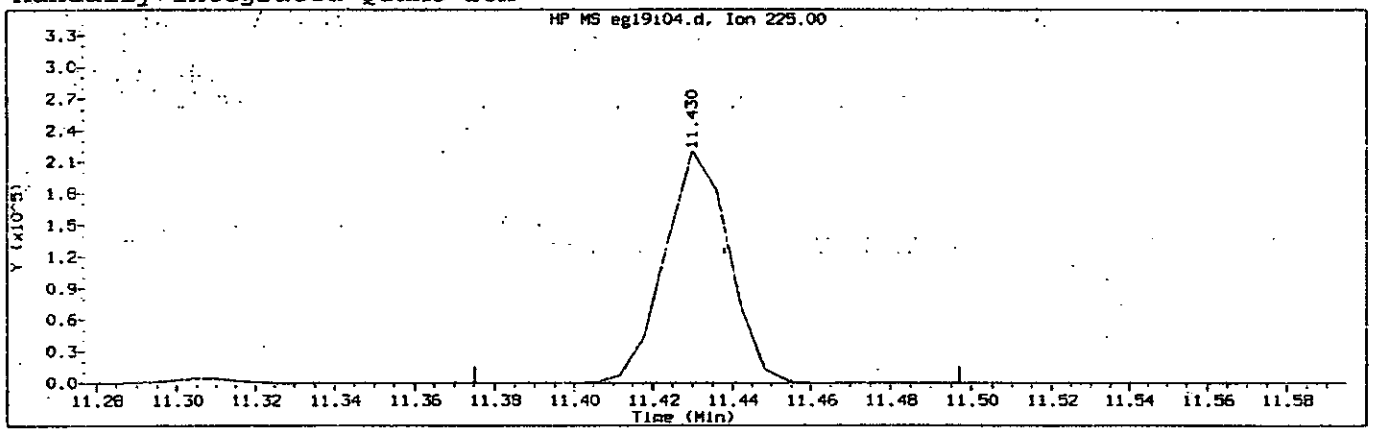
PTL86 0268

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 147
Compound Name : Hexachlorobutadiene
Scan Number : 1713
Retention Time (minutes): 11.430
Quant Ion : 225.00
Area (flag) : 247269M
On-Column Amount (ng) : 51.1595
Integration start scan : 1703 Integration stop scan: 1723
Y at integration start : 0 Y at integration end: 0

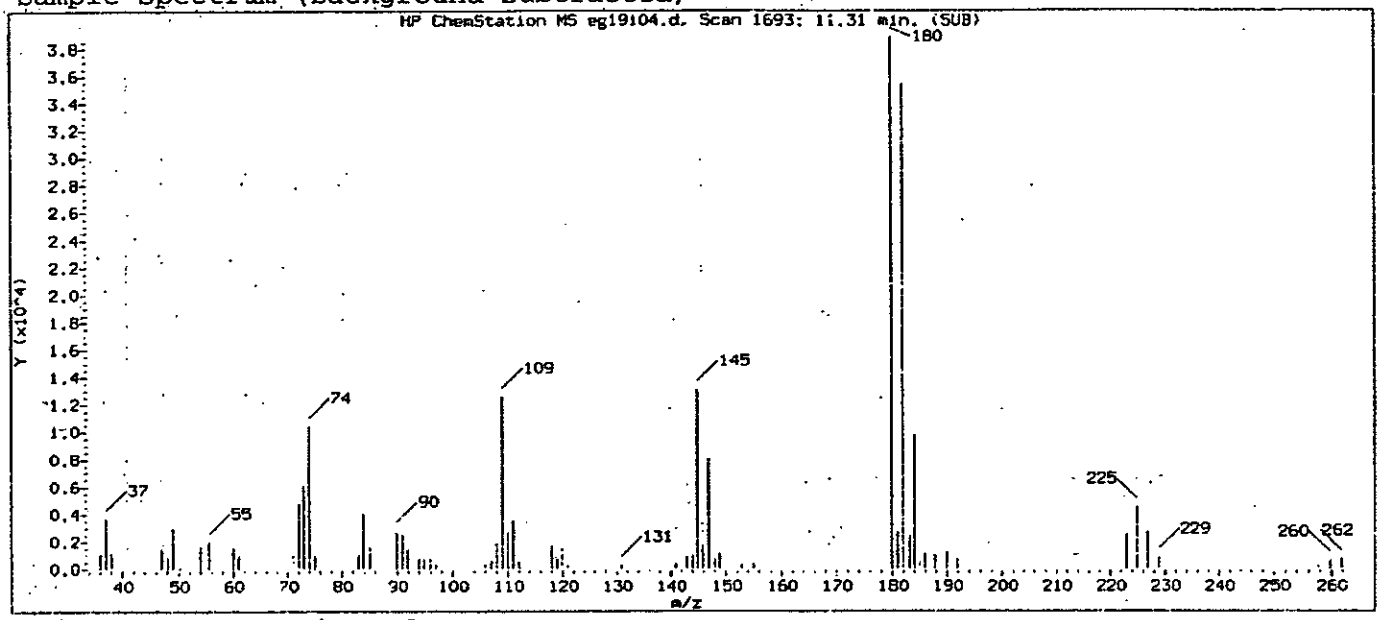
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

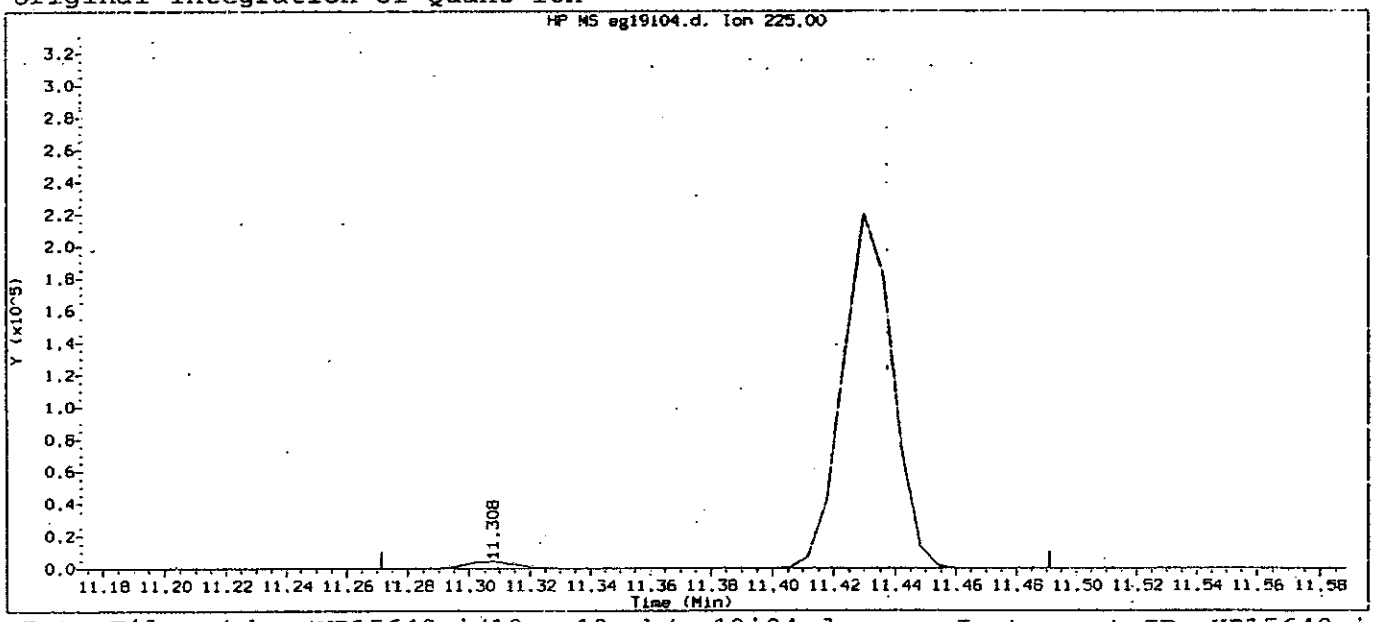
GC/MS audit/management approval: 8/20/10

PTL86 8269

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i04.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:27 Analyst ID: JML01693

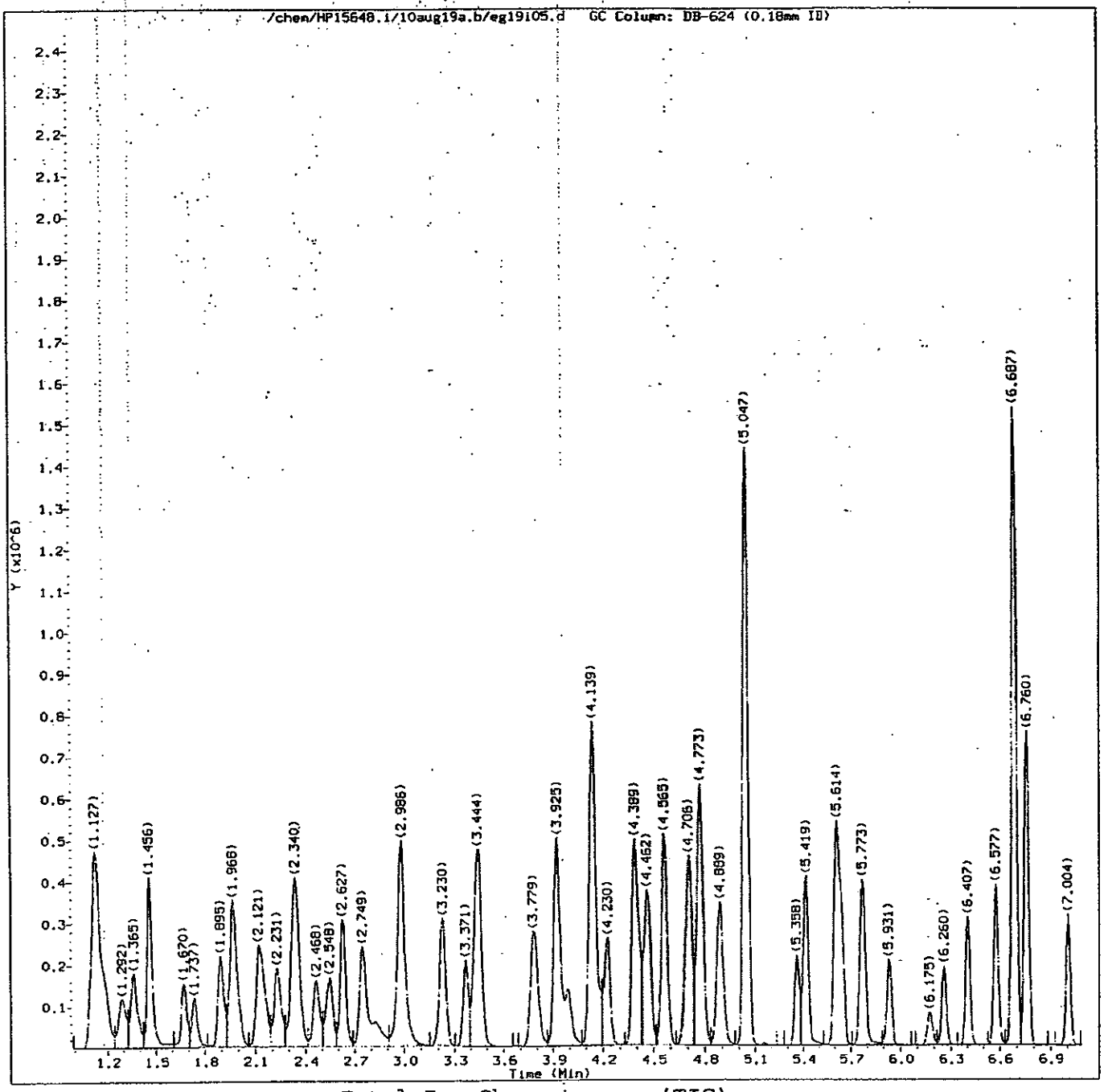
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 15:44 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 147
Compound Name : Hexachlorobutadiene
Scan Number : 1693
Retention Time (minutes): 11.308
Quant Ion : 225.00
Area : 252544
On-column Amount (ng) : 49.7343
Integration start scan : 1686 Integration stop scan: 1722
Y at integration start : 0 Y at integration end: 0

PTL96 0278

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

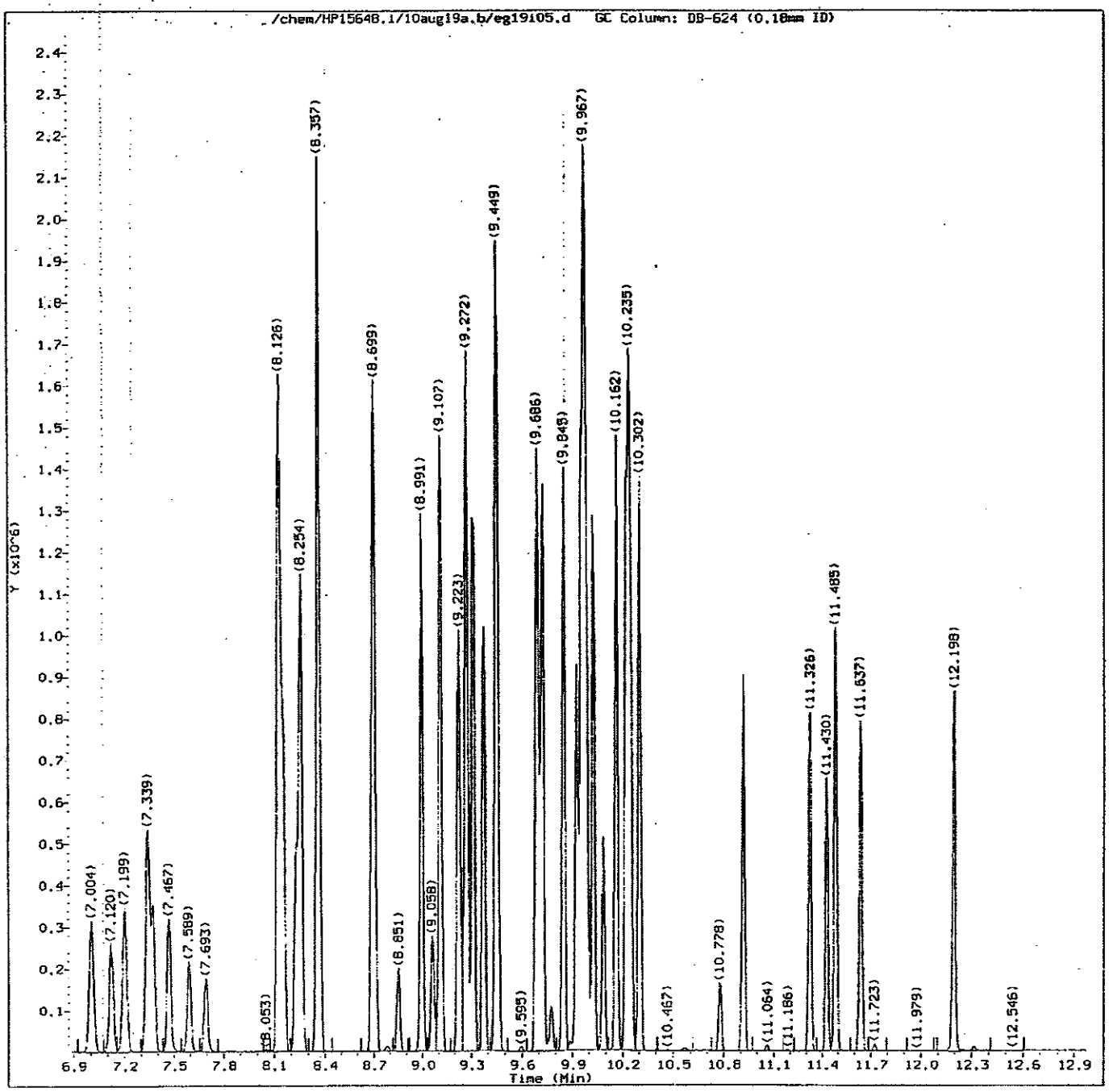
Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

PTL06 0271

Digitally signed by Jason M. Long
on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d
Injection date and time: 19-AUG-2010 15:47

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 20-AUG-2010 08:24

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020

Lab Sample ID: VSTD020

PTL06 0272

Digitally signed by Jason M. Long
on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.292	85	211632	20.944
2) Chloromethane	(1)	1.365	50	211088	20.482
3) 1,3-Butadiene	(1)	1.456	39	120099	18.506
4) Vinyl Chloride	(1)	1.462	62	205436	20.620
5) Bromomethane	(1)	1.670	94	129037	20.452
6) Chloroethane	(1)	1.737	64	121100	20.567
7) Dichlorofluoromethane	(1)	1.895	67	253600	19.721
8) Trichlorofluoromethane	(1)	1.968	101	228345	20.928
9) n-Pentane	(1)	1.968	43	242072	20.176
12) Ethyl Ether	(1)	2.121	59	112745	20.122
13) Freon 123a	(1)	2.145	67	161746	19.990
14) Acrolein	(4)	2.231	56	303412	199.571
15) 1,1-Dichloroethene	(1)	2.328	96	130077	19.979
17) Freon 113	(1)	2.340	101	133223	20.331
16) Acetone	(1)	2.352	43	77735	37.556
18) Methyl Iodide	(1)	2.462	142	216321	20.157
21) Carbon Disulfide	(1)	2.548	76	362408M	20.161
22) Allyl Chloride	(1)	2.627	41	209274	19.966
23) Methyl Acetate	(1)	2.639	43	104502	18.929
24) Methylene Chloride	(1)	2.743	84	136809	20.092
25) *t-Butyl Alcohol-d10	(4)	2.761	65	137904M	250.000
26) t-Butyl Alcohol	(4)	2.840	59	130424M	198.826
27) Acrylonitrile	(1)	2.956	53	57243	18.461
28) trans-1,2-Dichloroethene	(1)	2.986	96	135751	20.032
29) Methyl Tertiary Butyl Ether	(1)	2.986	73	377059	20.154
31) n-Hexane	(1)	3.230	57	212057	20.148
33) 1,1-Dichloroethane	(1)	3.371	63	243895	20.110
34) di-Isopropyl Ether	(1)	3.438	45	410870	20.108
35) 2-Chloro-1,3-Butadiene	(1)	3.456	53	189756	20.110
36) 1,2-Dichloroethene (total)	(1)		96	279409	40.108
37) Ethyl t-Butyl Ether	(1)	3.779	59	386105M	20.242
39) cis-1,2-Dichloroethene	(1)	3.919	96	143658	20.077
40) 2-Butanone	(1)	3.931	43	135746	39.086
41) 2,2-Dichloropropane	(1)	3.931	77	186402	20.609
42) Propionitrile	(4)	3.992	54	205273	193.632
44) Methacrylonitrile	(1)	4.139	67	303475	98.324
45) Bromochloromethane	(1)	4.151	128	67376	19.821
46) Tetrahydrofuran	(4)	4.187	71	39921	40.285
47) Chloroform	(1)	4.230	83	218959	20.385

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
51)$Dibromofluoromethane(mz111)	(1)	4.383	111	263740	50.008
50)$Dibromofluoromethane	(1)	4.383	113	260513	50.698
52) 1,1,1-Trichloroethane	(1)	4.407	97	208846	20.186
53) Cyclohexane	(1)	4.462	56	259497	20.430
55) 1,1-Dichloropropene	(1)	4.565	75	193561	19.799
56) Carbon Tetrachloride	(1)	4.572	117	152452	20.303
58) Isobutyl Alcohol	(4)	4.693	41	107702	497.835
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.712	104	43874	49.939
59)$1,2-Dichloroethane-d4	(1)	4.718	102	69263M	50.765
63) Benzene	(1)	4.767	78	558435	19.972
65) 1,2-Dichloroethane	(1)	4.791	62	158575	19.817
67) t-Amyl Methyl Ether	(1)	4.889	73	376524	20.341
68) n-Heptane	(1)	5.041	43	208078	19.872
69)*Fluorobenzene	(1)	5.047	96	1149209	50.000
71) n-Butanol	(4)	5.358	56	188556	978.798
72) Trichloroethene	(1)	5.413	95	144199	20.060
74) Methylcyclohexane	(1)	5.614	83	268304	20.151
76) 1,2-Dichloropropane	(1)	5.644	63	140700	19.896
78) Dibromomethane	(1)	5.760	93	80783M	20.054
79) Methyl Methacrylate	(1)	5.779	69	114274	19.267
80) 1,4-Dioxane	(4)	5.791	88	32508	496.583
81) Bromodichloromethane	(1)	5.937	83	151622	20.022
82) 2-Nitropropane	(1)	6.175	41	49935M	37.742
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	93270	19.300
87) cis-1,3-Dichloropropene	(1)	6.407	75	201338	20.047
88) 4-Methyl-2-Pentanone	(1)	6.577	43	283180	36.725
90)$Toluene-d8	(2)	6.687	98	1154267	50.166
89)$Toluene-d8(mz100)	(2)	6.687	100	741911	49.855
91) Toluene	(2)	6.754	92	361288	19.803
92) trans-1,3-Dichloropropene	(2)	7.004	75	185661	19.903
93) Ethyl Methacrylate	(2)	7.120	69	146639	19.005
94) 1,1,2-Trichloroethane	(2)	7.199	97	116953	19.853
96) Tetrachloroethene	(2)	7.339	166	170528	20.104
97) 1,3-Dichloropropane	(2)	7.370	76	206141	19.814
98) 2-Hexanone	(2)	7.467	43	201844	39.253
100) Dibromochloromethane	(2)	7.589	129	111980	19.494
101) 1,2-Dibromoethane	(2)	7.693	107	117537	19.620
103)*Chlorobenzene-d5	(2)	8.126	117	832032	50.000
104) Chlorobenzene	(2)	8.150	112	392444	19.872

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
105)	Xylene (Total)	(2)		106	806064	59.328
106)	1,1,1,2-Tetrachloroethane	(2)	8.229	131	114460	19.460
107)	Ethylbenzene	(2)	8.254	91	691604	19.785
108)	m+p-Xylene	(2)	8.357	106	541099	39.396
110)	o-Xylene	(2)	8.693	106	264965	19.932
111)	Styrene	(2)	8.705	104	413612	19.706
112)	Bromoform	(2)	8.851	173	79067	18.774
113)	Isopropylbenzene	(2)	8.991	105	686543	19.621
115)	Cyclohexanone	(4)	9.058	55	104103	477.512
116)	$4-Bromofluorobenzene	(2)	9.107	95	409544	50.173
117)	$4-Bromofluorobenzene(mz174)	(2)	9.113	174	349231	49.769
118)	Bromobenzene	(3)	9.223	156	161574	20.263
119)	1,1,2,2-Tetrachloroethane	(3)	9.229	83	166526	19.181
120)	1,2,3-Trichloropropane	(3)	9.260	110	47741	18.641
121)	trans-1,4-Dichloro-2-Butene	(3)	9.272	53	242135M	93.058
122)	n-Propylbenzene	(3)	9.308	91	825404M	20.200
123)	2-Chlorotoluene	(3)	9.375	126	162961	20.000
124)	1,3,5-Trimethylbenzene	(3)	9.443	105	552588	19.801
125)	4-Chlorotoluene	(3)	9.455	126	164309	19.899
127)	tert-Butylbenzene	(3)	9.686	134	138252M	19.914
128)	Pentachloroethane	(3)	9.699	167	80351	19.340
130)	1,2,4-Trimethylbenzene	(3)	9.723	105	579505	20.030
132)	sec-Butylbenzene	(3)	9.845	105	736350	20.082
133)	1,3-Dichlorobenzene	(3)	9.924	146	306287M	19.837
134)	p-Isopropyltoluene	(3)	9.949	119	631240	19.801
135)	*1,4-Dichlorobenzene-d4	(3)	9.973	152	450498	50.000
136)	1,4-Dichlorobenzene	(3)	9.985	146	311520	19.944
137)	1,2,3-Trimethylbenzene	(3)	10.022	105	561426	19.812
138)	Benzyl Chloride	(3)	10.083	91	278948	19.575
139)	1,3-Diethylbenzene	(3)	10.162	105	361481	19.659
140)	1,4-Diethylbenzene	(3)	10.217	105	331470M	19.385
141)	n-Butylbenzene	(3)	10.235	92	311223	19.508
142)	1,2-Dichlorobenzene	(3)	10.247	146	296574	20.079
143)	1,2-Diethylbenzene	(3)	10.302	105	337585	19.693
145)	1,2-Dibromo-3-Chloropropane	(3)	10.778	75	30093M	19.327
146)	1,2,4-Trichlorobenzene	(3)	11.326	180	212665	19.777
147)	Hexachlorobutadiene	(3)	11.430	225	97558M	19.496
148)	Naphthalene	(3)	11.485	128	601592	19.406
149)	1,2,3-Trichlorobenzene	(3)	11.643	180	198468	19.891

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Jason M. Long
on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
152) 2-Methylnaphthalene	(3)	12.198	142	316181	19.305

PTL06 8276

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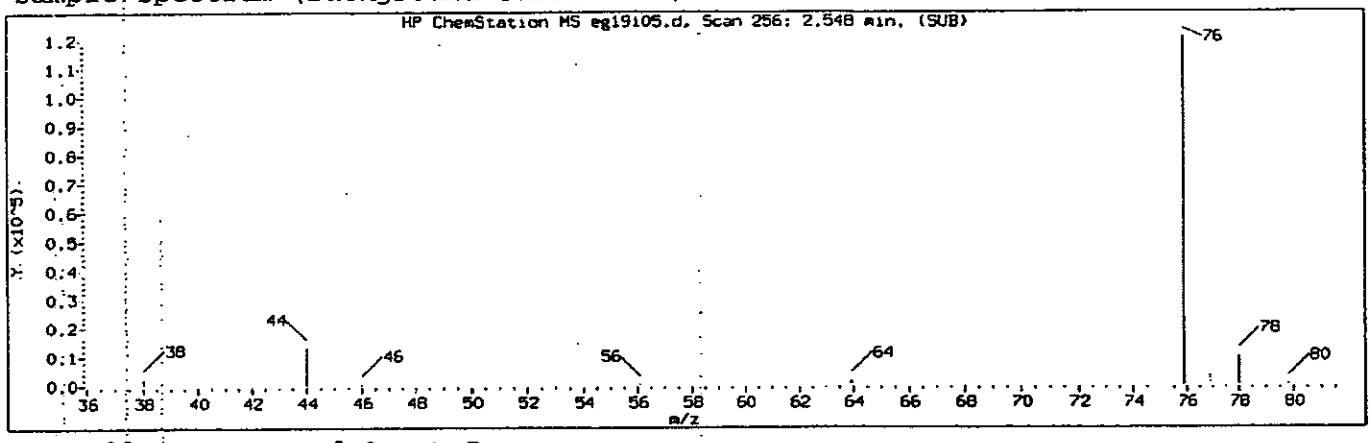
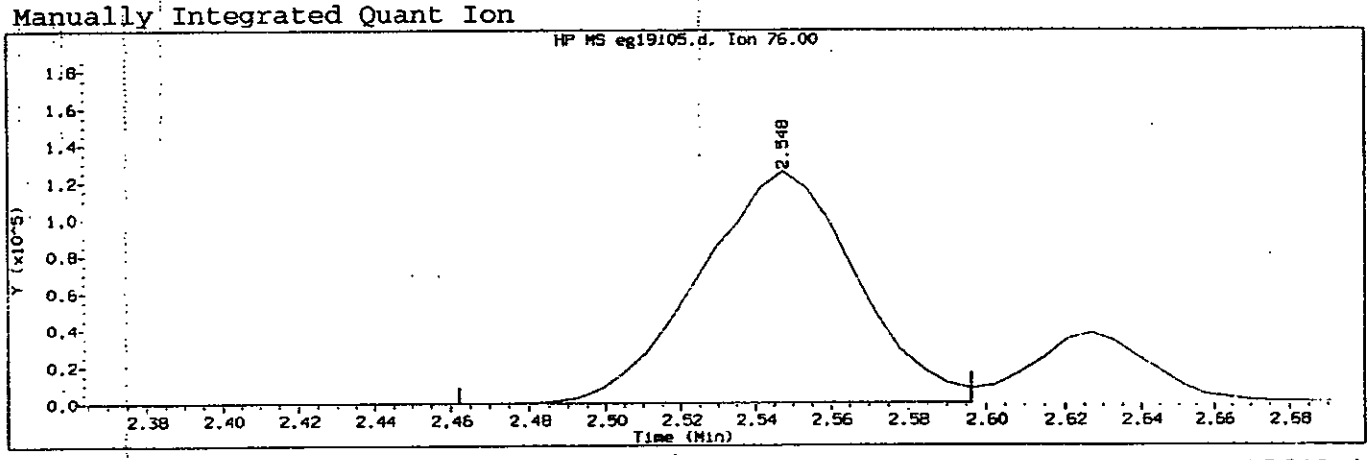
on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

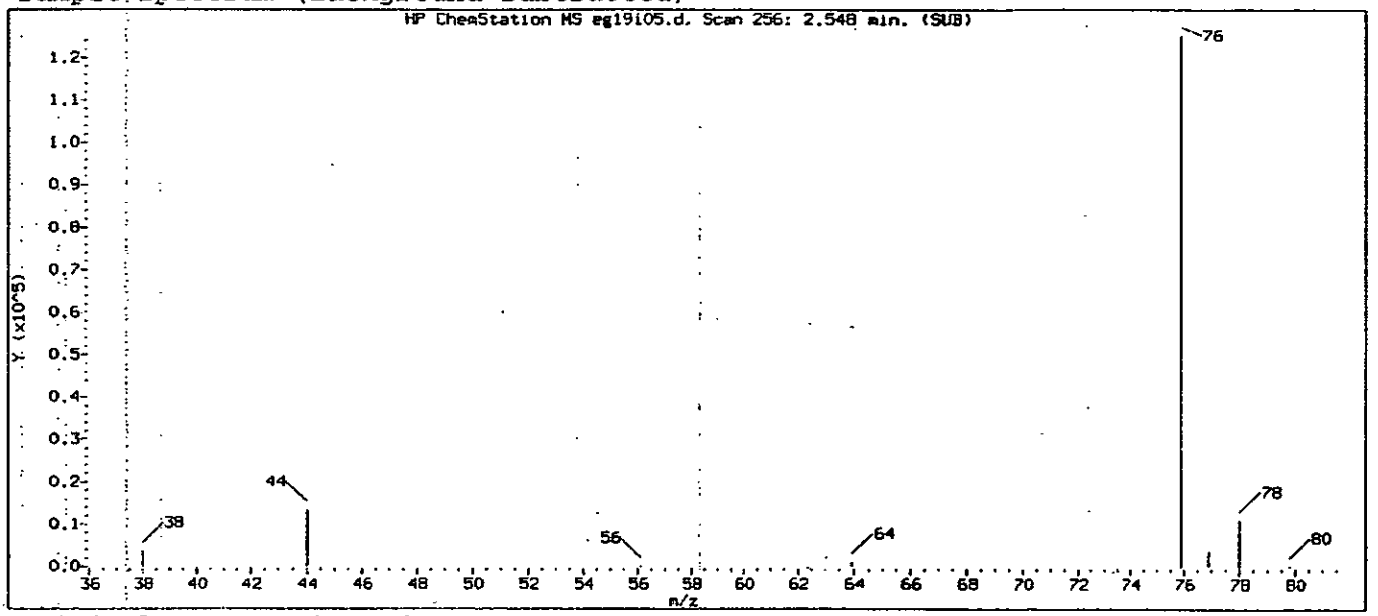
Compound Number : 21
Compound Name : Carbon Disulfide
Scan Number : 256
Retention Time (minutes): 2.548
Quant Ion : 76.00
Area (flag) : 362408M
On-Column Amount (ng) : 20.1612
Integration start scan : 241 Integration stop scan: 263
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

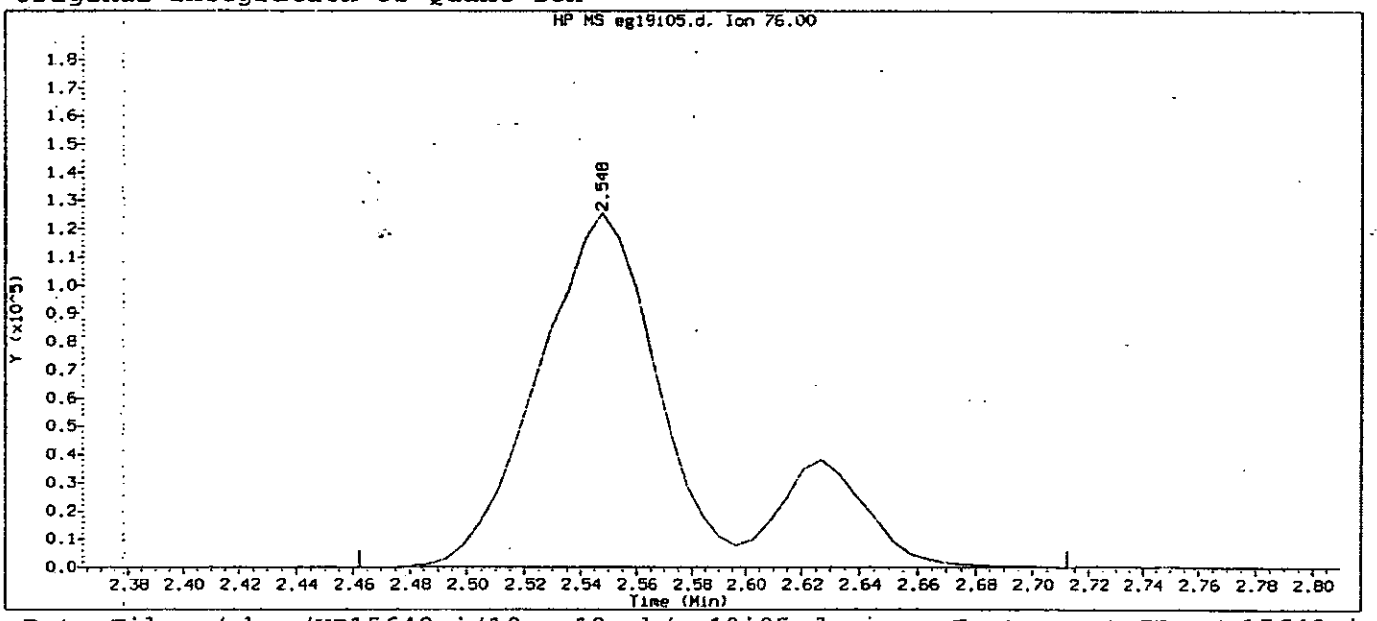
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: JMLong 8/20/10 PTL86 0277

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 21
Compound Name : Carbon Disulfide
Scan Number : 256
Retention Time (minutes): 2.548
Quant Ion : 76.00
Area : 443130
On-column Amount (ng) : 22.0036
Integration start scan : 241 Integration stop scan: 282
Y at integration start : 0 Y at integration end: 0

PTL06 0278

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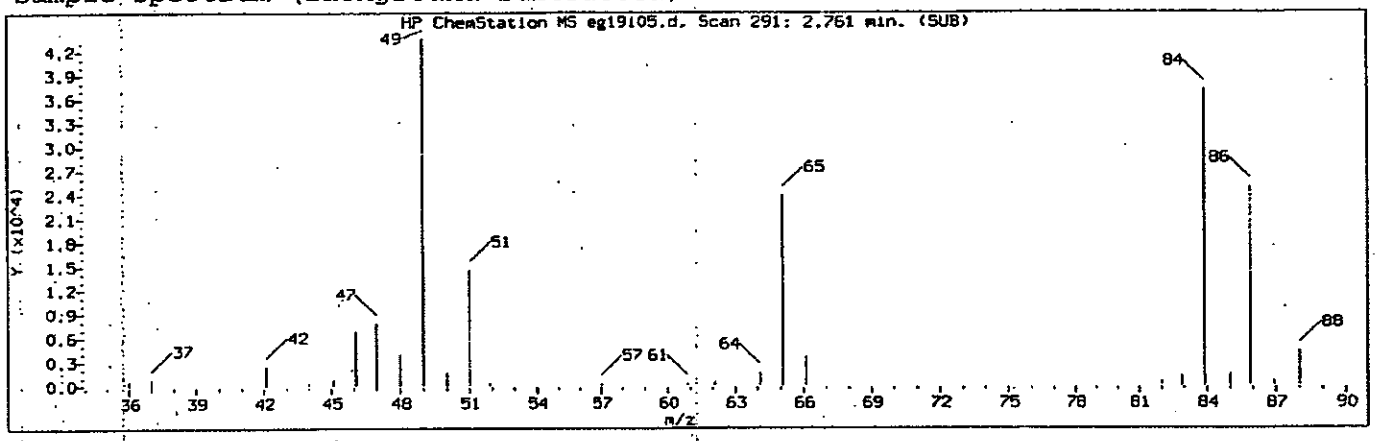
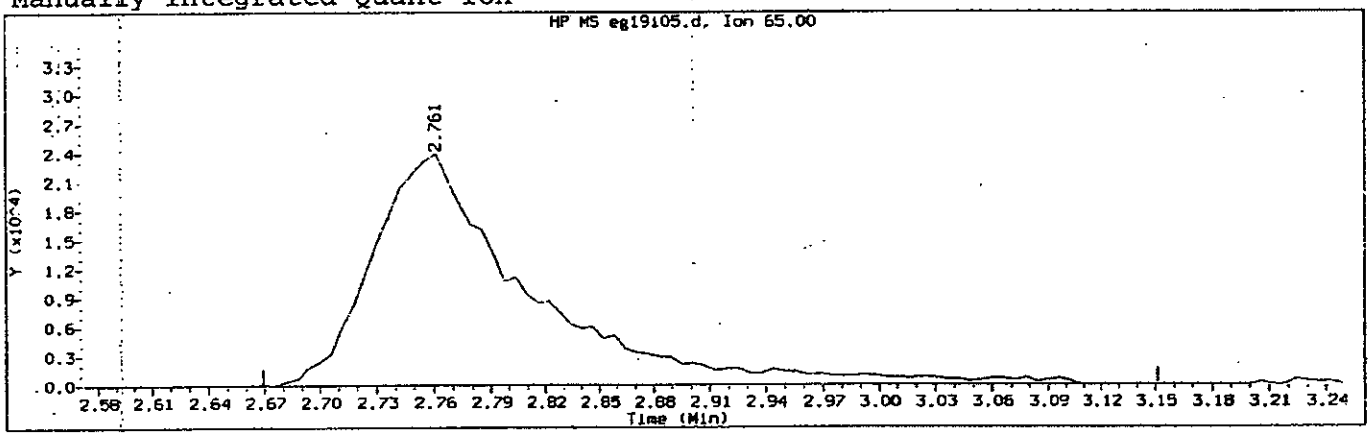
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 25
Compound Name : t-Butyl Alcohol-d10
Scan Number : 291
Retention Time (minutes): 2.761
Quant Ion : 65.00
Area (flag) : 137904M
On-Column Amount (ng) : 250.0000
Integration start scan : 275 Integration stop scan: 354
Y at integration start : 0 Y at integration end: 0

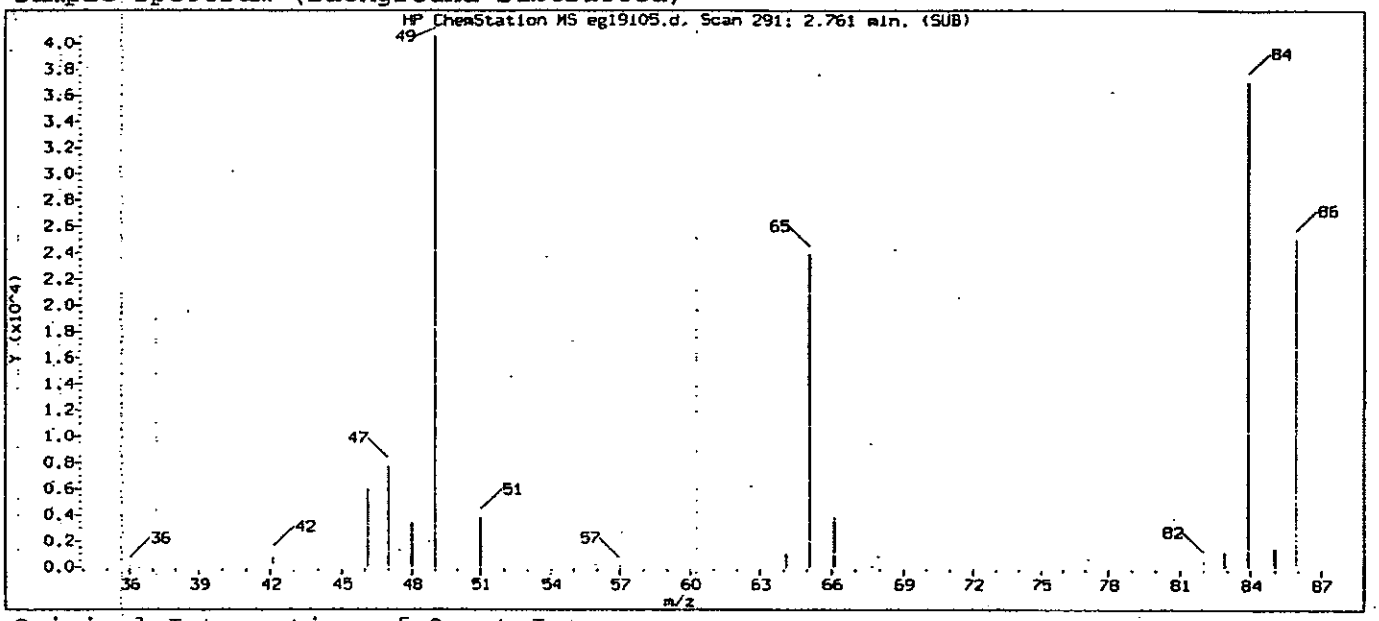
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

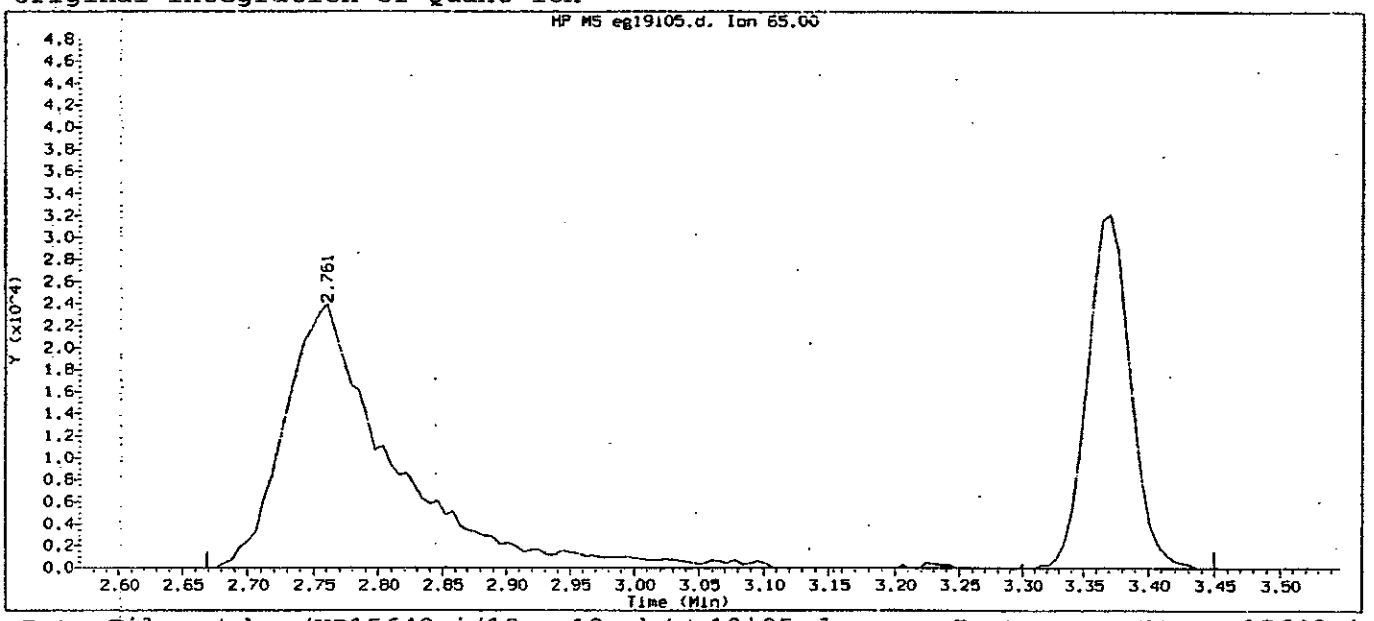
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0279

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

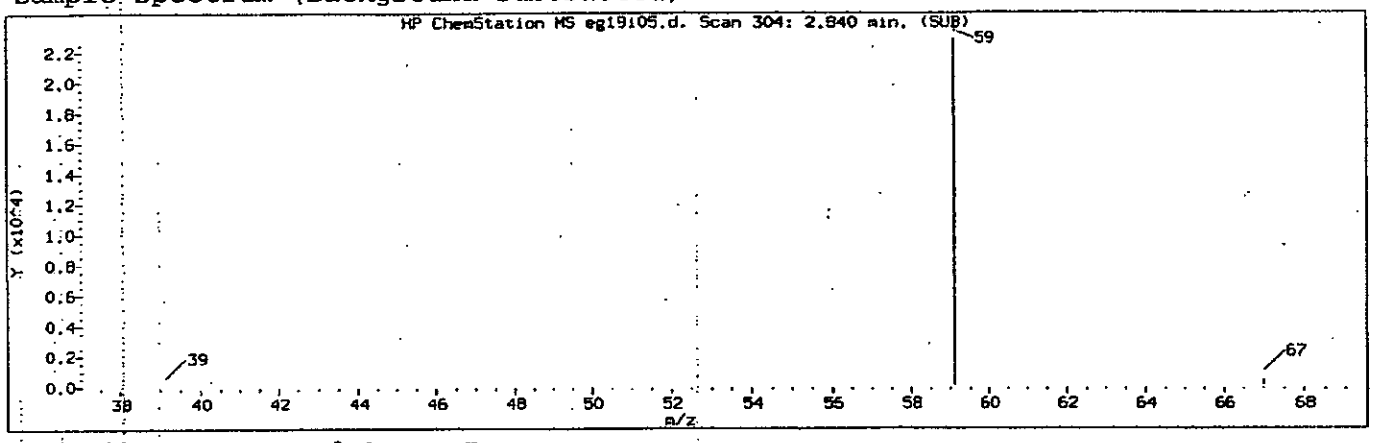
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 25
Compound Name : t-Butyl Alcohol-d10
Scan Number : 291
Retention Time (minutes): 2.761
Quant Ion : 65.00
Area : 214013
On-column Amount (ng) : 250.0000
Integration start scan : 275 Integration stop scan: 403
Y at integration start : 0 Y at integration end: 0

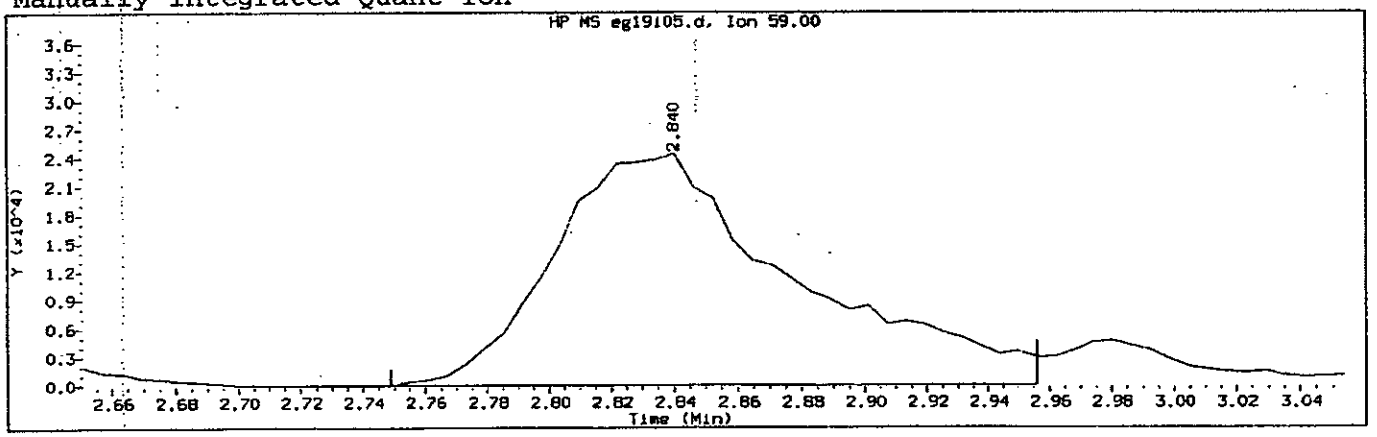
PTL86 0288

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 304
Retention Time (minutes): 2.840
Quant Ion : 59.00
Area (flag) : 130424M
On-Column Amount (ng) : 198.8256
Integration start scan : 288 Integration stop scan: 322
Y at integration start : 0 Y at integration end: 0

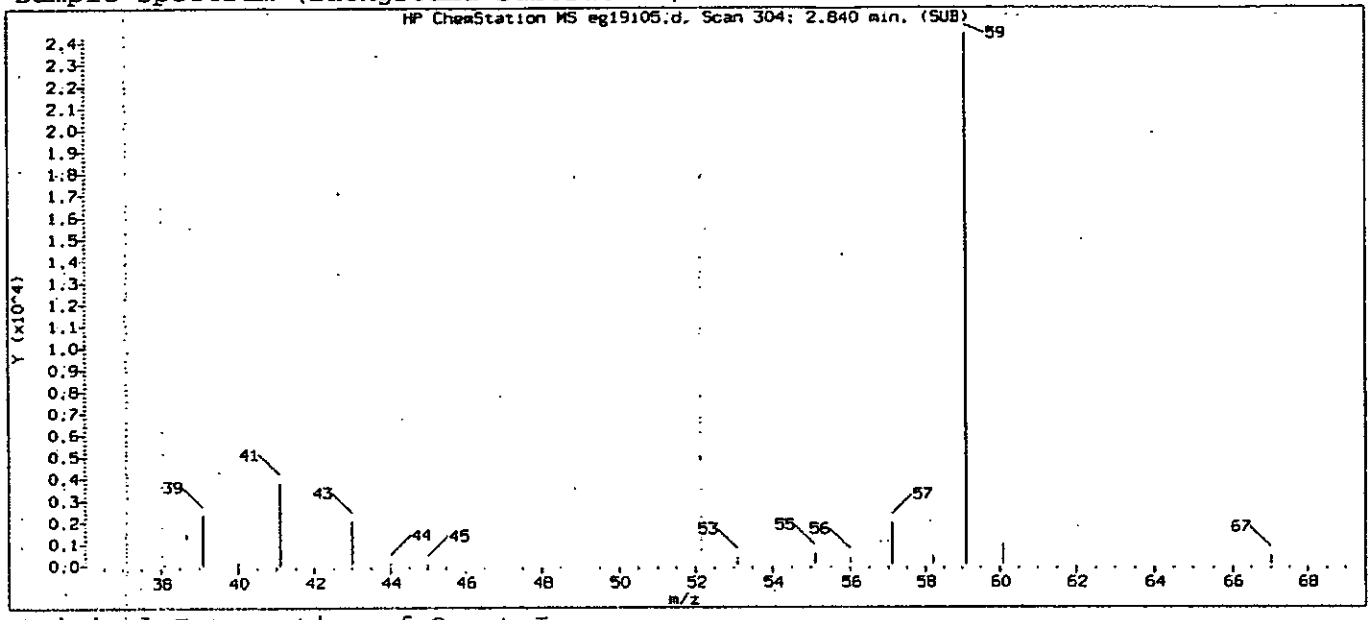
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

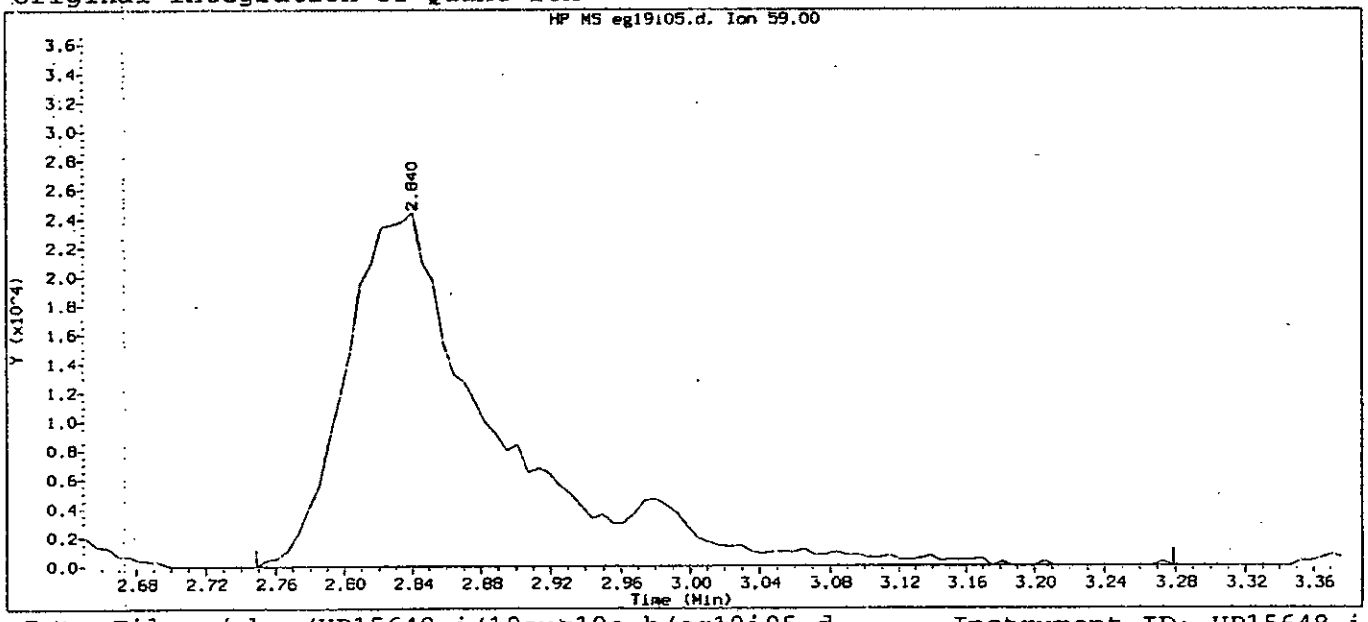
GC/MS audit/management approval: [signature] 8/20/10

PTL06 6281

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

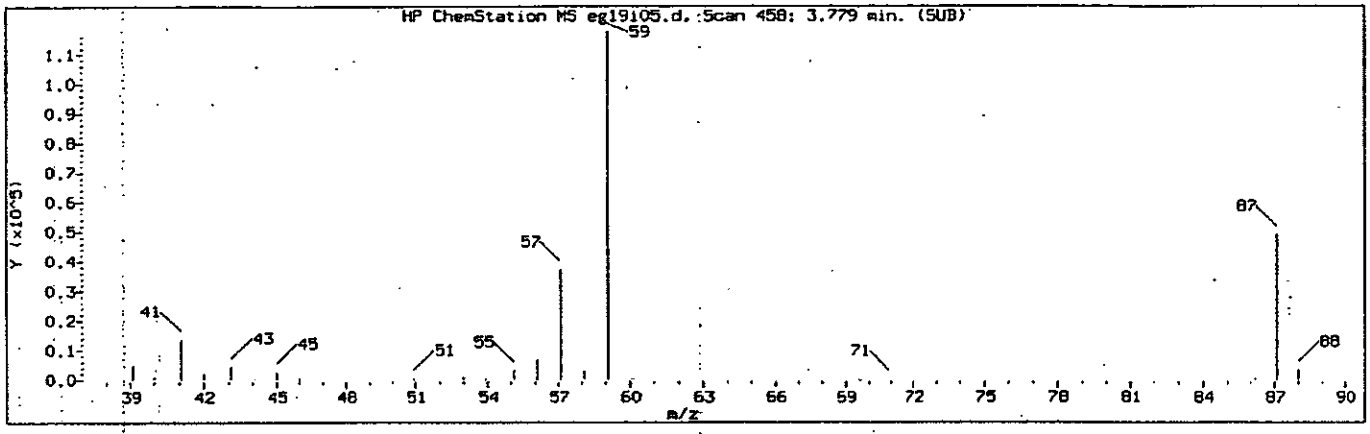
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 304
Retention Time (minutes): 2.840
Quant Ion : 59.00
Area : 149076
On-column Amount (ng) : 135.8668
Integration start scan : 288 Integration stop scan: 375
Y at integration start : 0 Y at integration end: 0

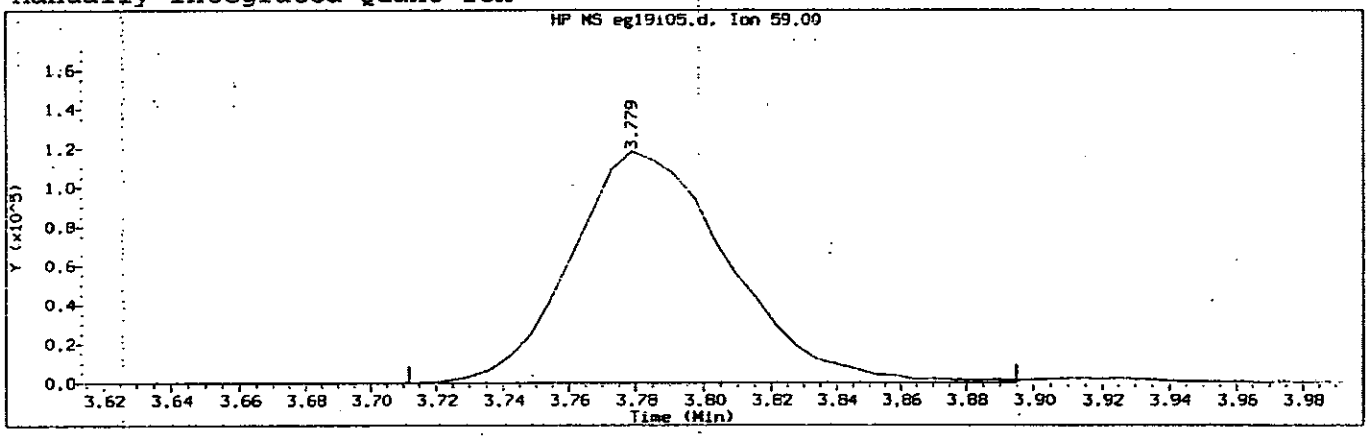
PTL86 8282

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 37		
Compound Name	: Ethyl t-Butyl Ether		
Scan Number	: 458		
Retention Time (minutes)	: 3.779		
Quant Ion	: 59.00		
Area (flag)	: 386105M		
On-Column Amount (ng)	: 20.2421		
Integration start scan	: 446	Integration stop scan:	476
Y at integration start	: 0	Y at integration end:	0

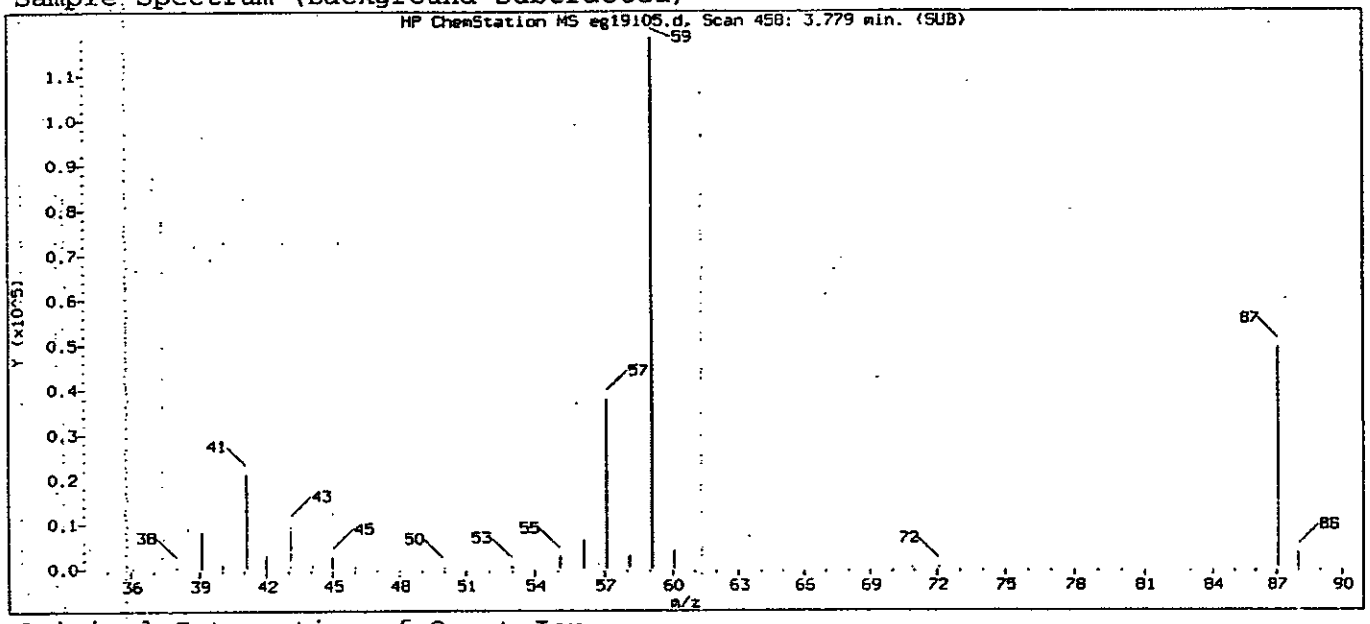
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

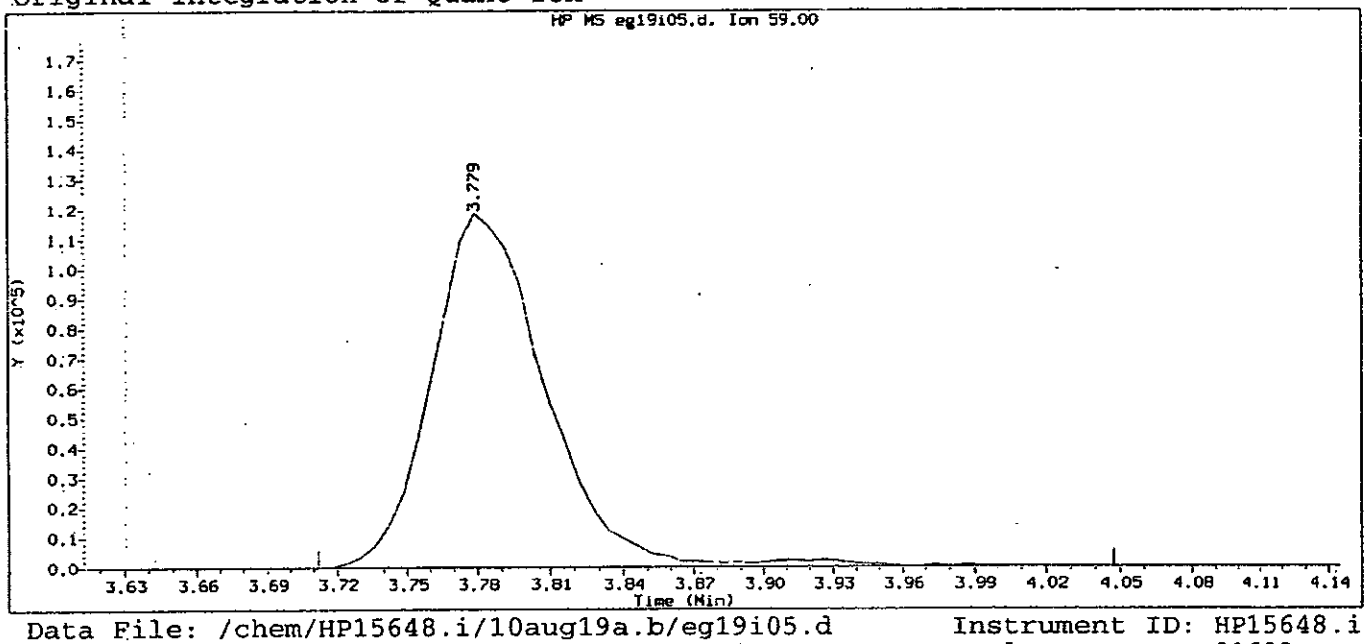
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0283

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

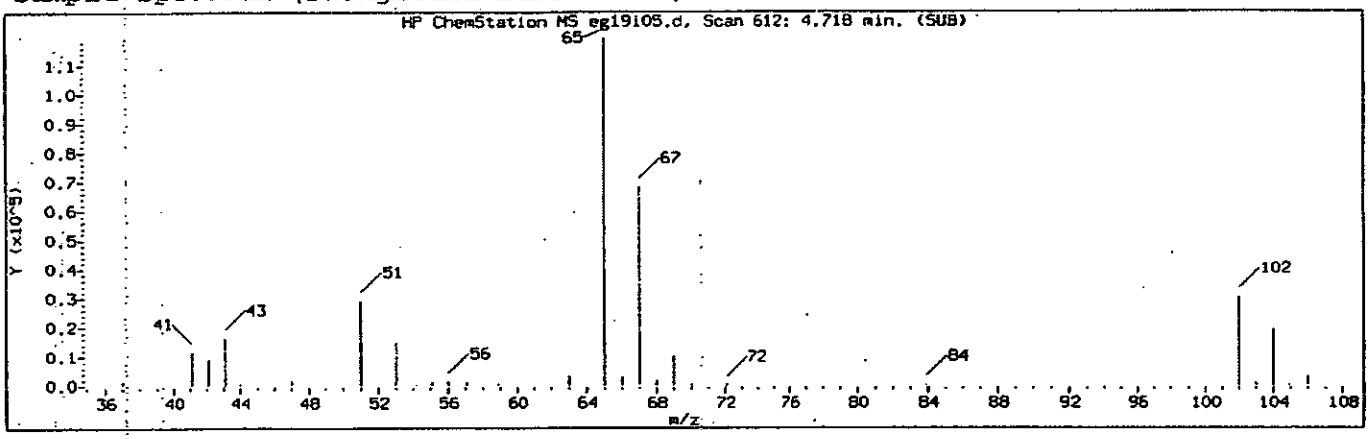
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 458
Retention Time (minutes): 3.779
Quant Ion : 59.00
Area : 393703
On-column Amount (ng) : 19.9233
Integration start scan : 446 Integration stop scan: 501
Y at integration start : 0 Y at integration end: 0

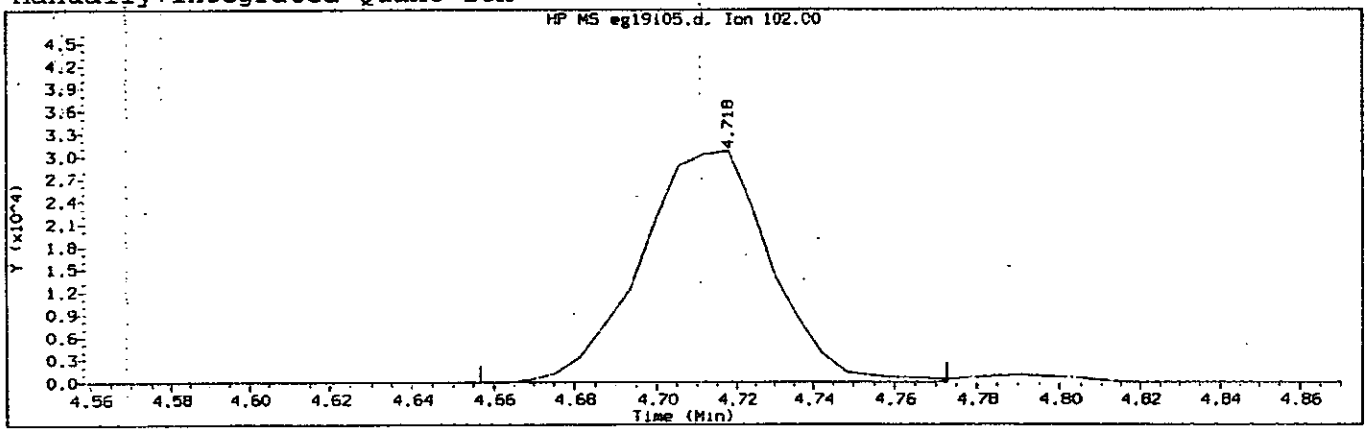
PTL86 8284

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 59
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 612
Retention Time (minutes): 4.718
Quant Ion : 102.00
Area (flag) : 69263M
On-Column Amount (ng) : 50.7646
Integration start scan : 601 Integration stop scan: 620
Y at integration start : 0 Y at integration end: 0

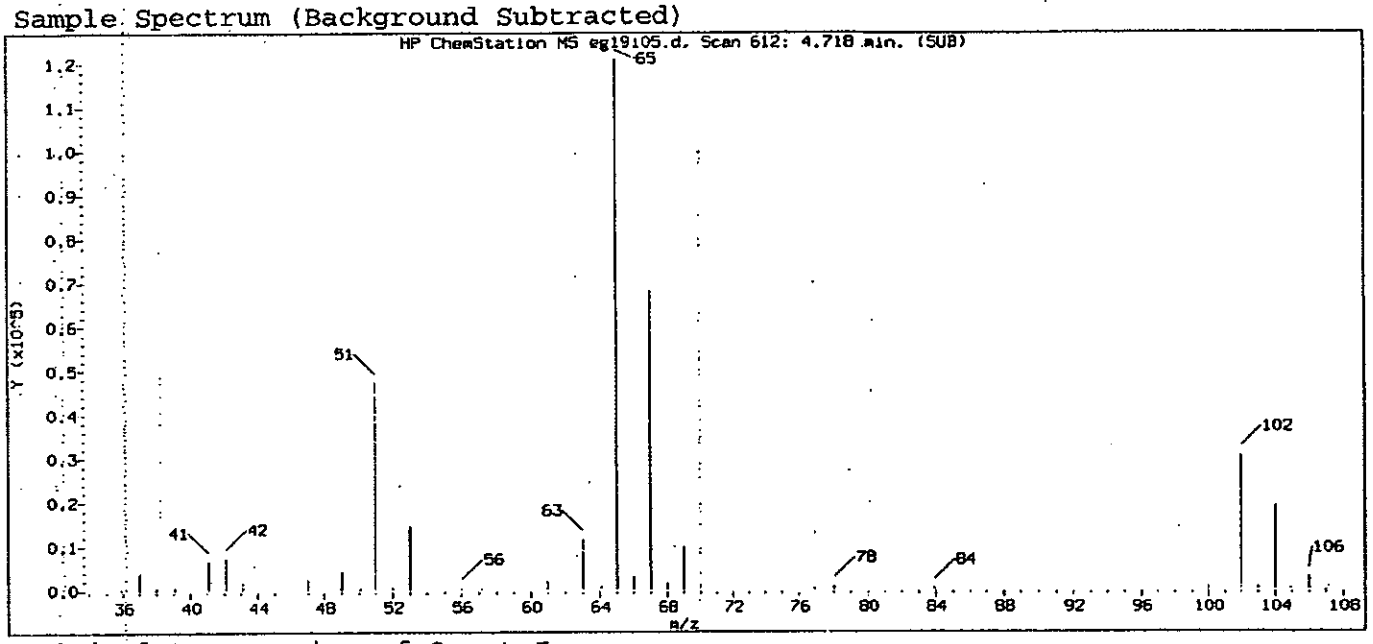
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

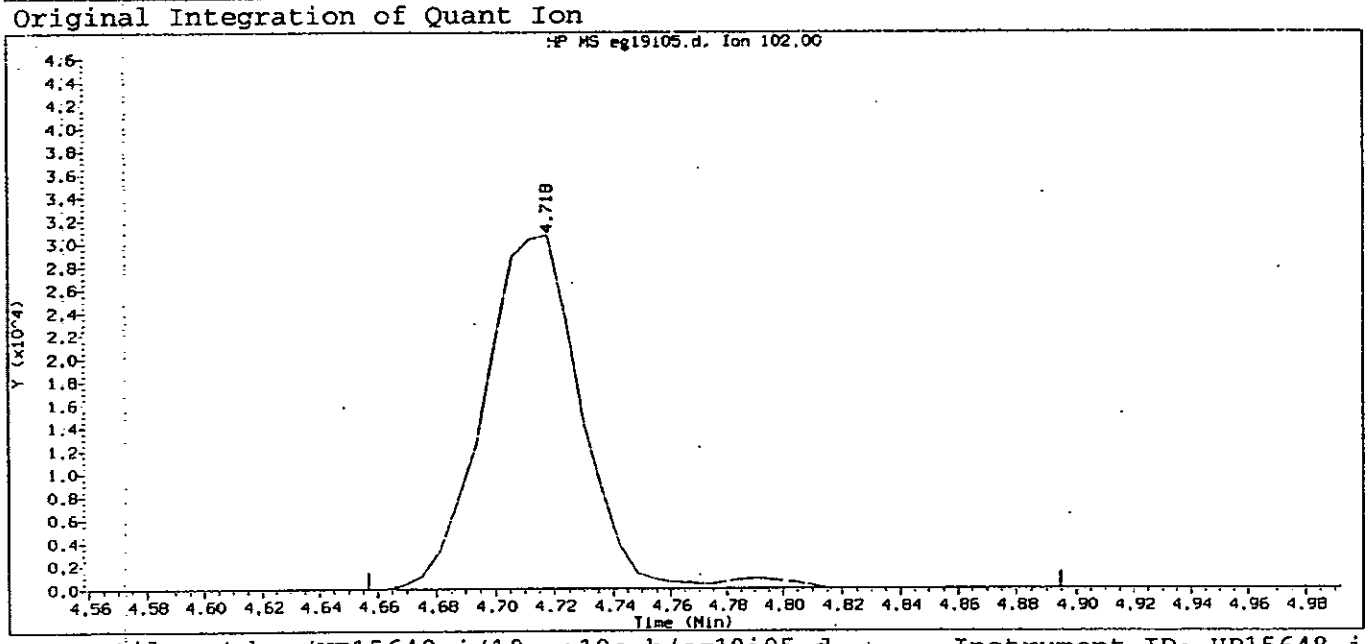
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0285

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

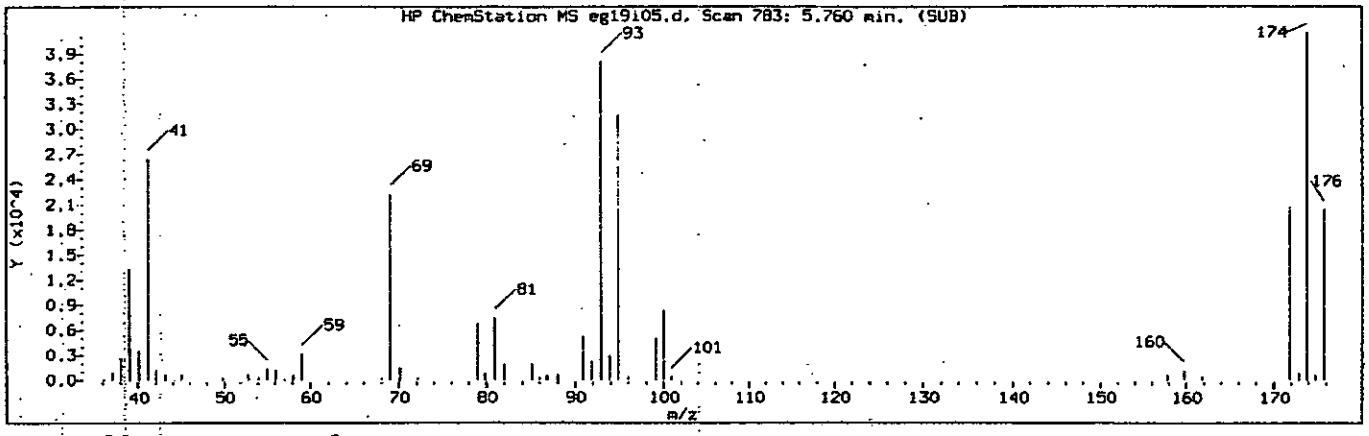
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 59
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 612
Retention Time (minutes): 4.718
Quant Ion : 102.00
Area : 70681
On-column Amount (ng) : 48.1182
Integration start scan : 601 Integration stop scan: 640
Y at integration start : 0 Y at integration end: 0

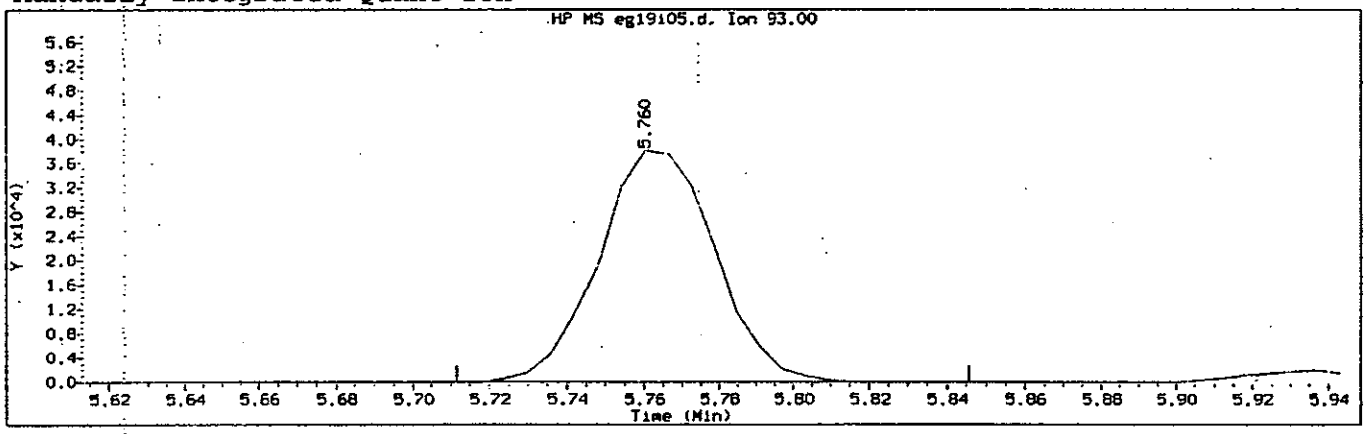
PTL06 0286

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 78		
Compound Name	: Dibromomethane		
Scan Number	: 783		
Retention Time (minutes)	: 5.760		
Quant Ion	: 93.00		
Area (flag)	: 80783M		
On-Column Amount (ng)	: 20.0544		
Integration start scan	: 774	Integration stop scan:	796
Y at integration start	: 0	Y at integration end:	0

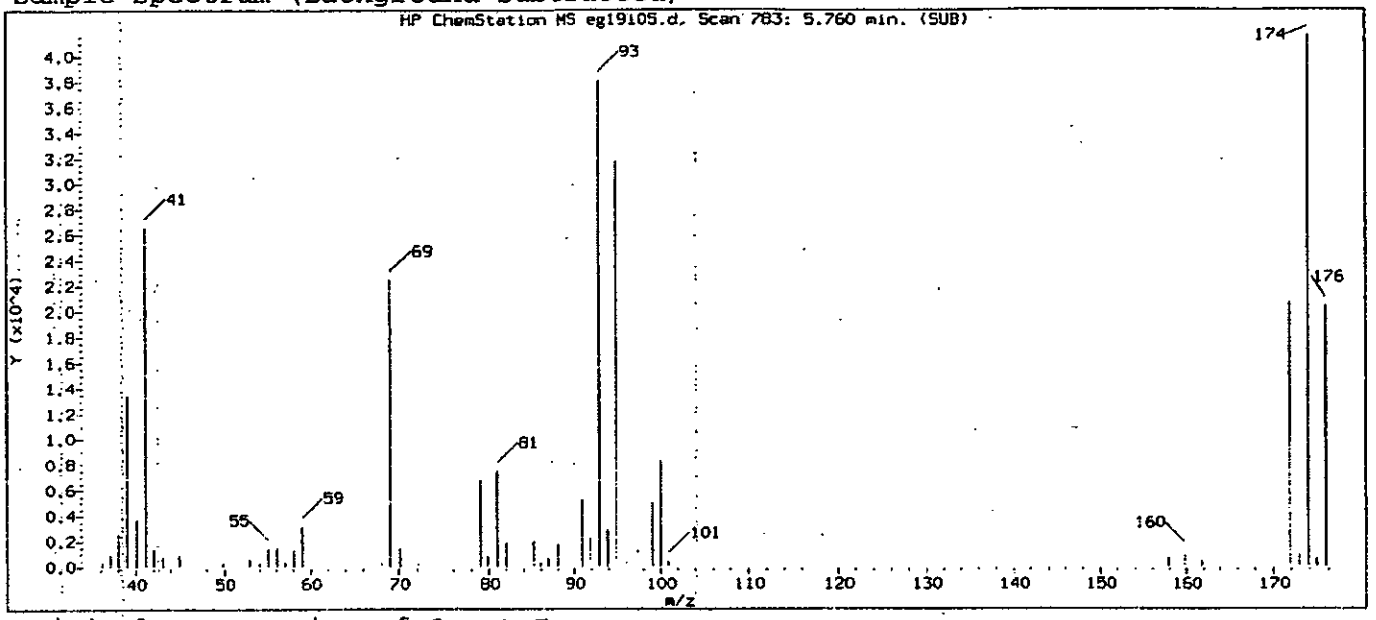
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

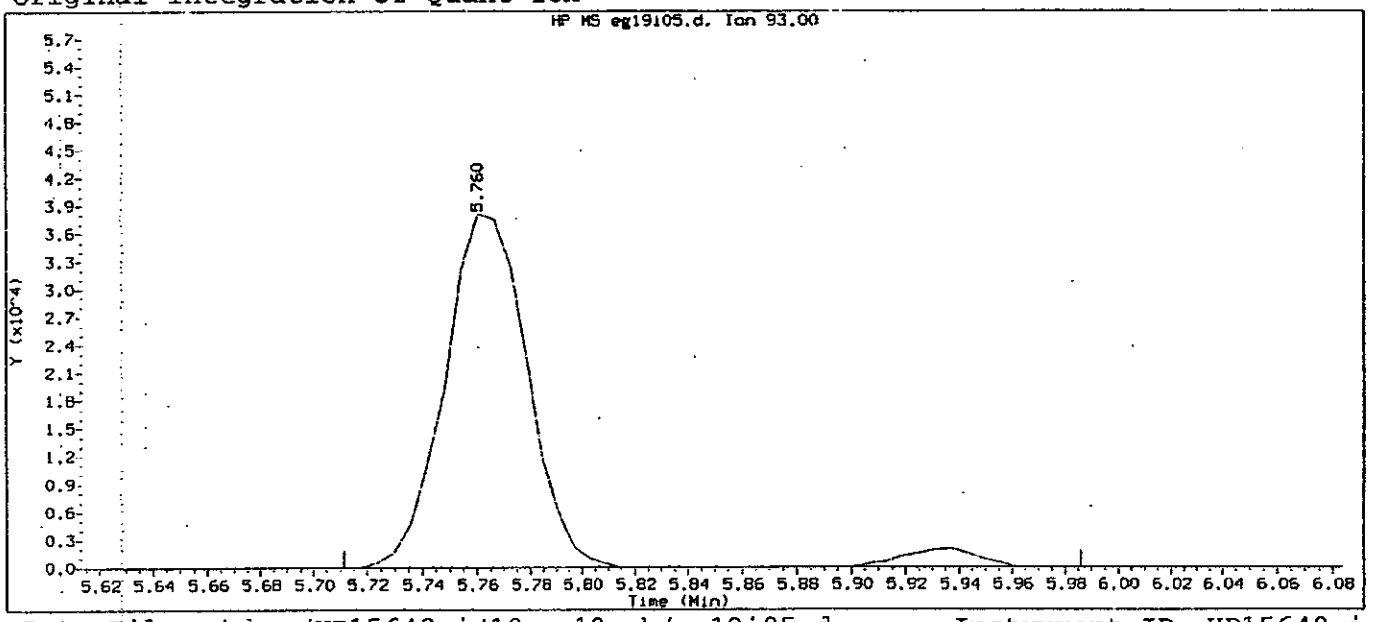
GC/MS audit/management approval: JMLong 8/20/10

PTL06 0287

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

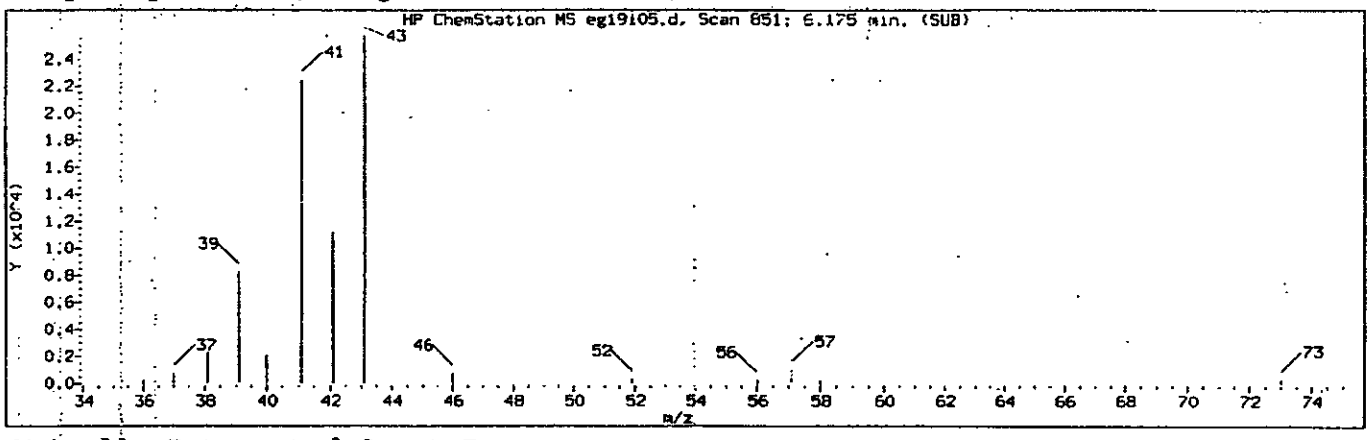
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 78
Compound Name : Dibromomethane
Scan Number : 783
Retention Time (minutes): 5.760
Quant Ion : 93.00
Area : 84572
On-column Amount (ng) : 20.3991
Integration start scan : 774 Integration stop scan: 819
Y at integration start : 0 Y at integration end: 0

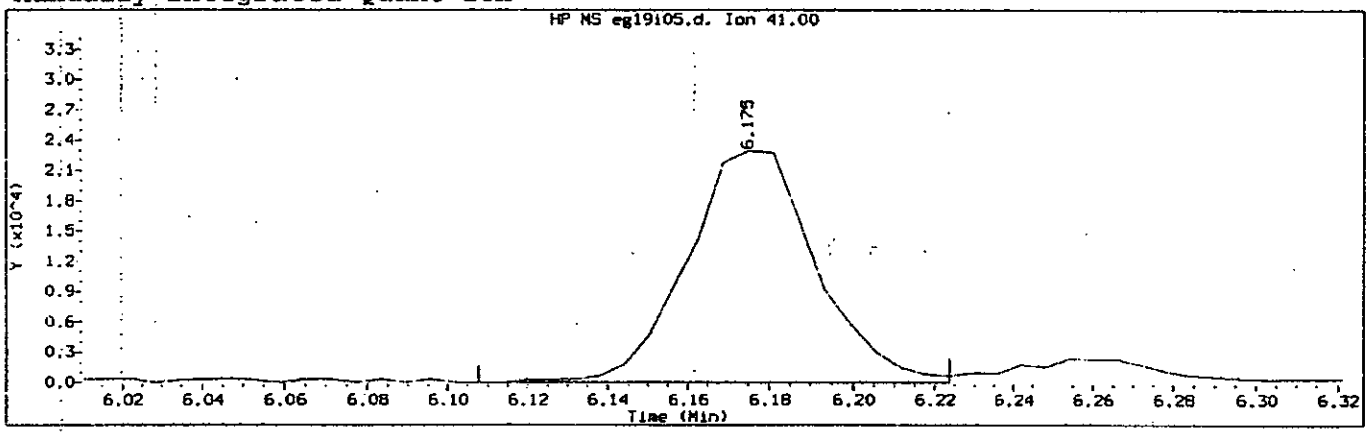
PTL86 8288

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 82
Compound Name : 2-Nitropropane
Scan Number : 851
Retention Time (minutes): 6.175
Quant Ion : 41.00
Area (flag) : 49935M
On-Column Amount (ng) : 37.7422
Integration start scan : 839 Integration stop scan: 858
Y at integration start : 0 Y at integration end: 0

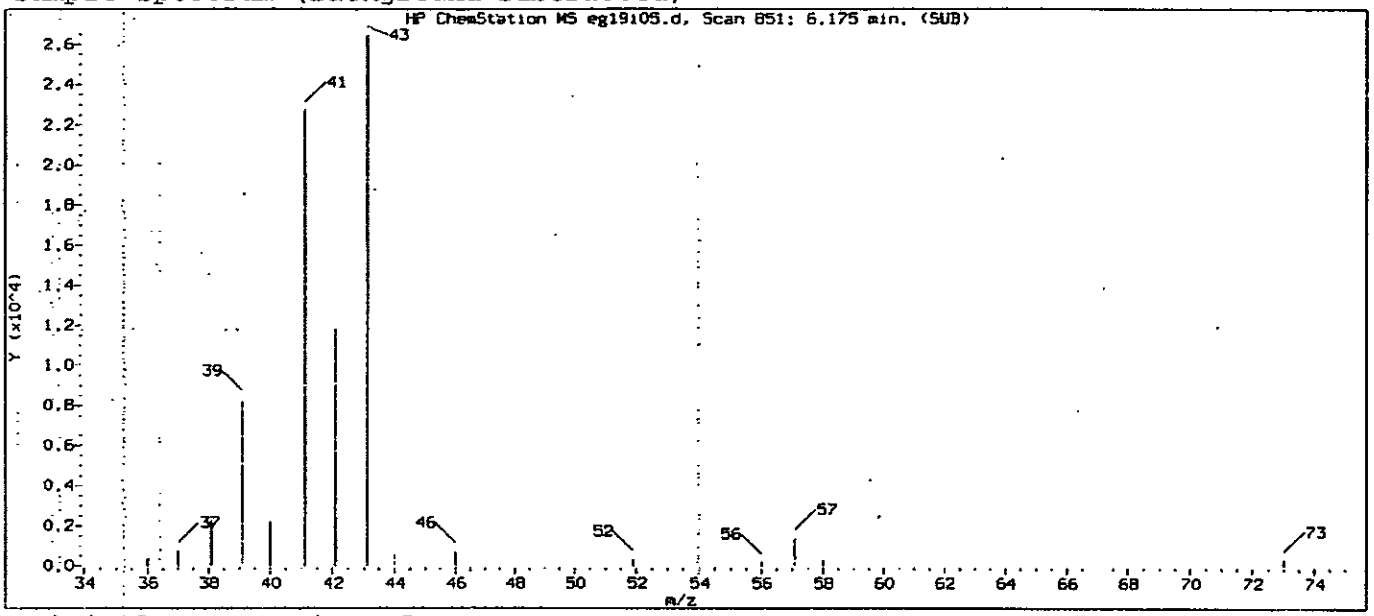
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

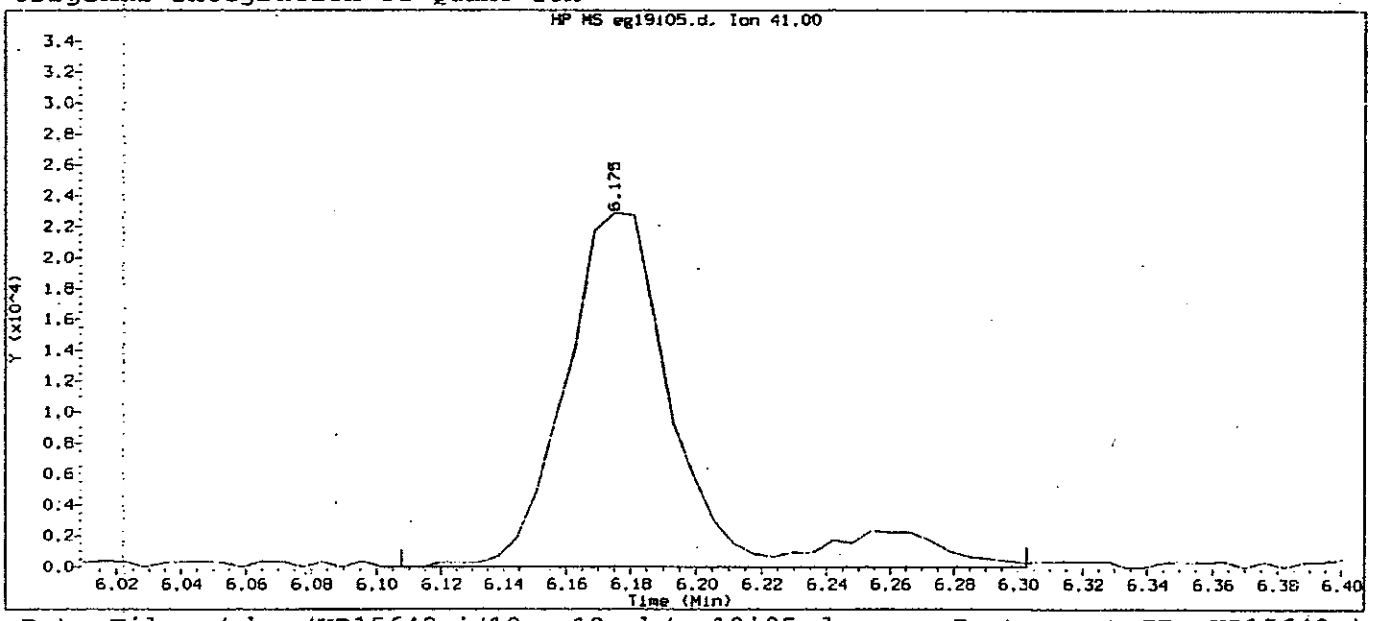
GC/MS audit/management approval: 8/20/10

PTL06 0289

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

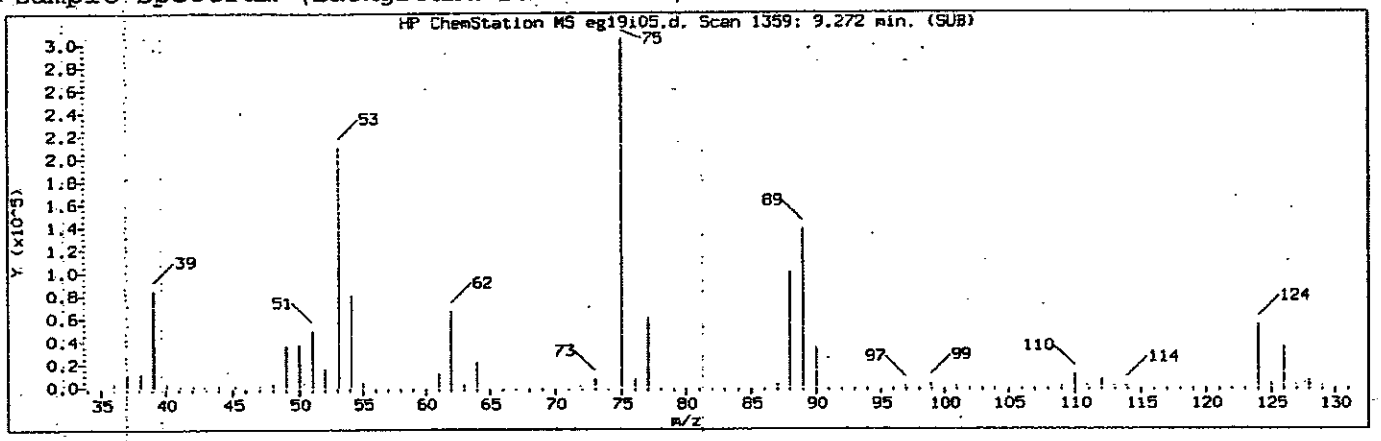
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 82
Compound Name : 2-Nitropropane
Scan Number : 851
Retention Time (minutes): 6.175
Quant Ion : 41.00
Area : 55941
On-column Amount (ng) : 35.5525
Integration start scan : 839 Integration stop scan: 871
Y at integration start : 0 Y at integration end: 0

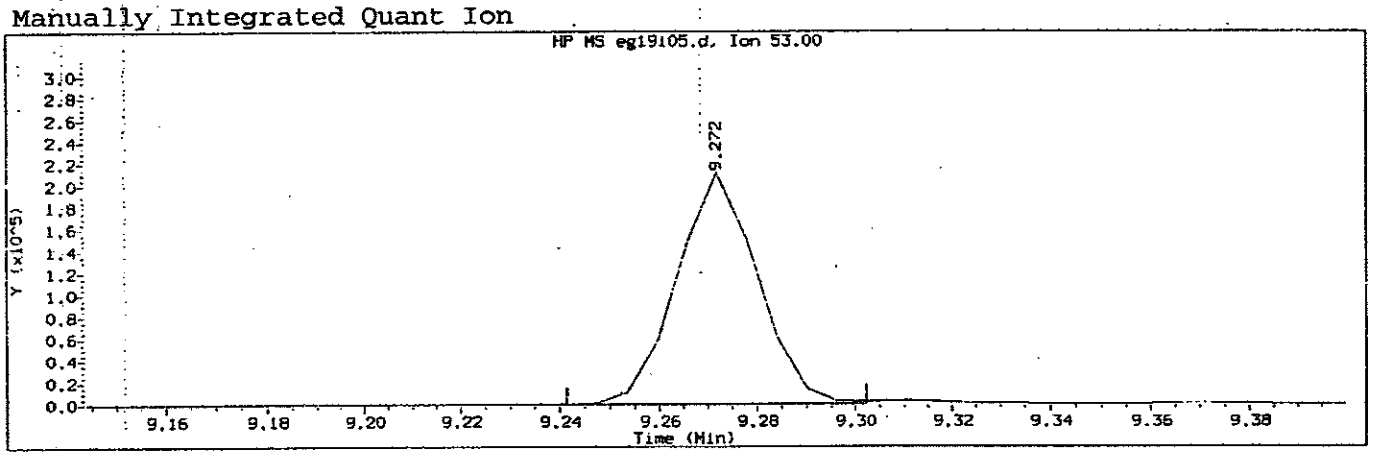
PTL06 8290

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area (flag) : 242135M
On-Column Amount (ng) : 93.0579
Integration start scan : 1353 Integration stop scan: 1363
Y at integration start : 0 Y at integration end: 0

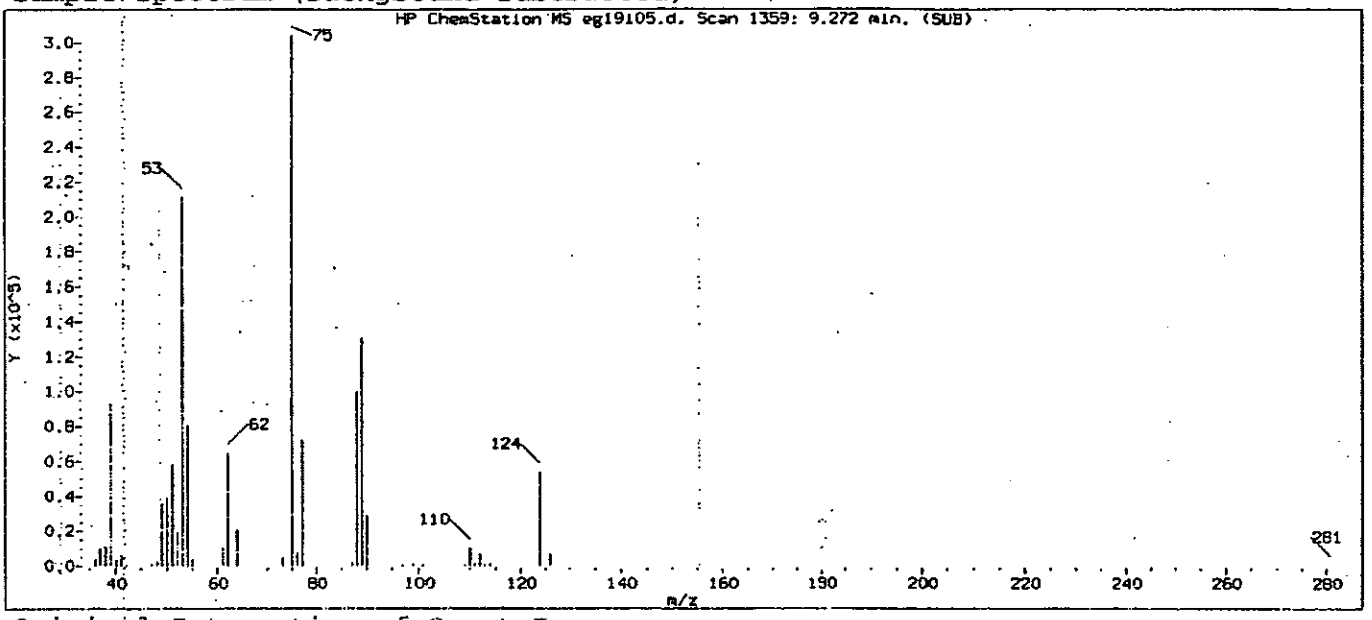
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

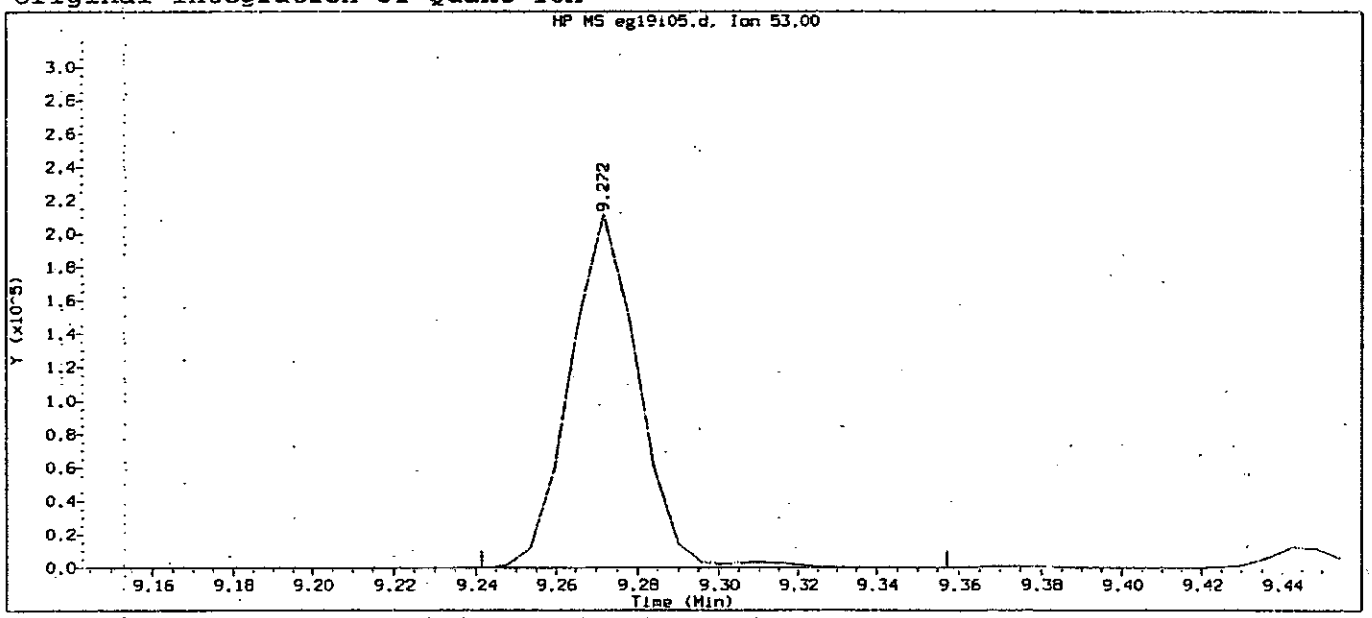
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0291

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

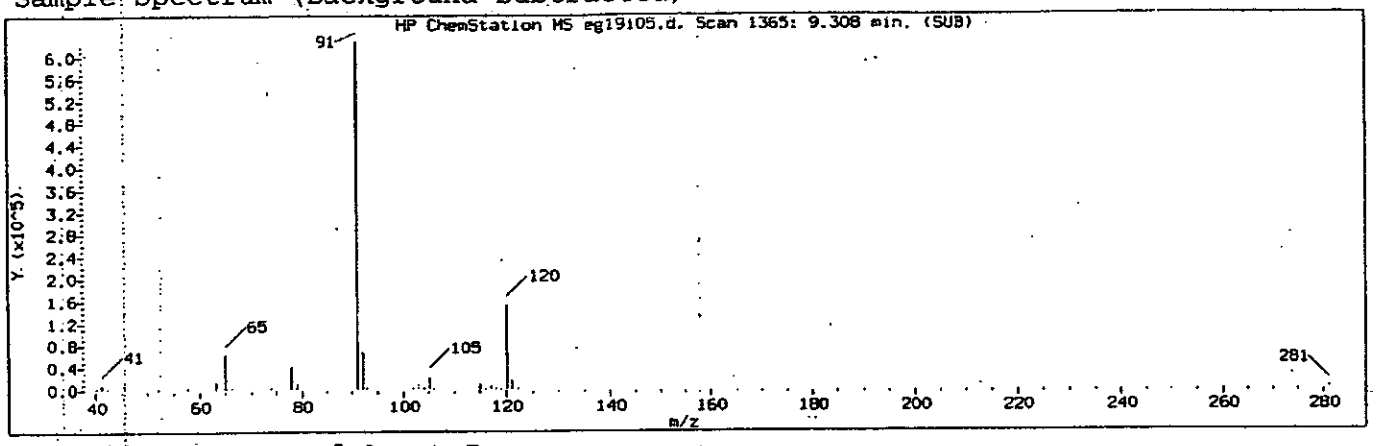
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

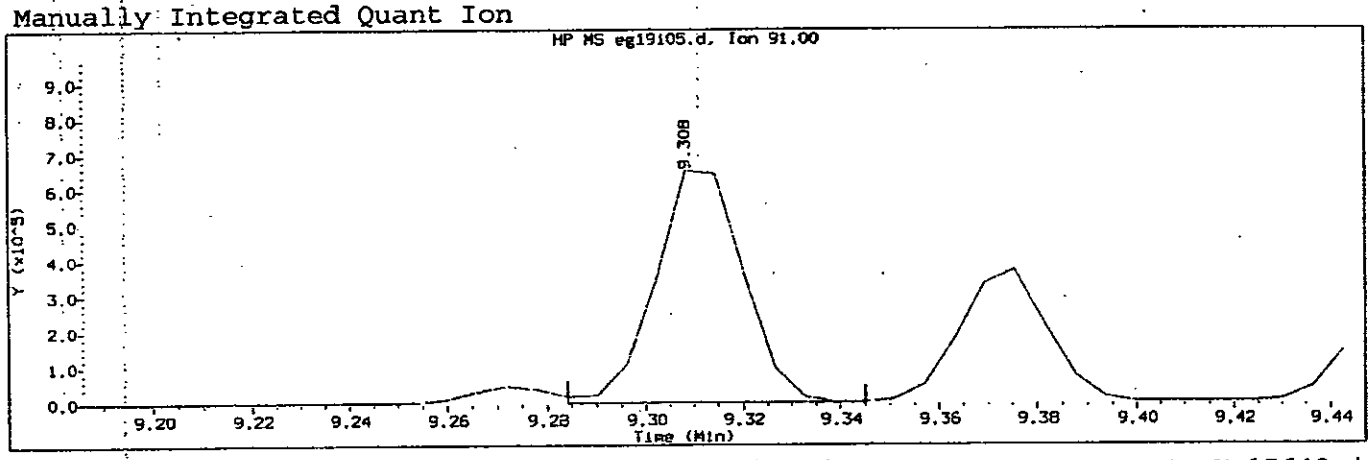
Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 245294
On-column Amount (ng) : 87.2692
Integration start scan : 1353 Integration stop scan: 1372 PTL06 8292
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

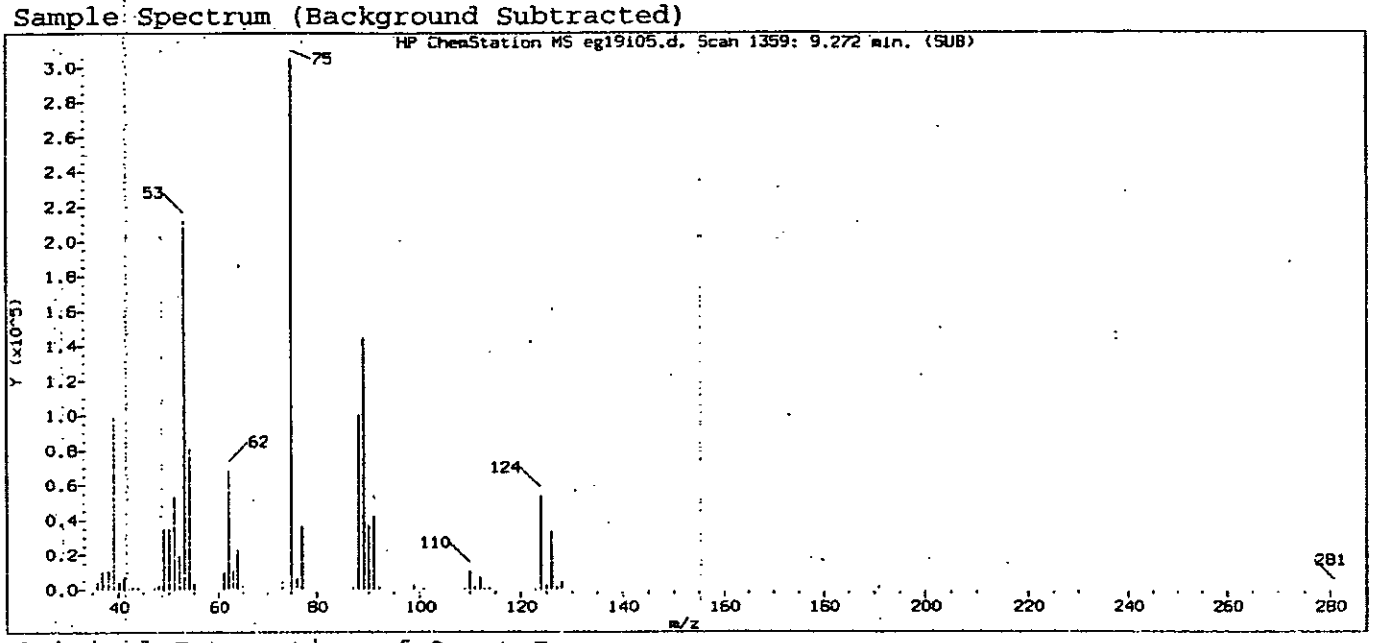
Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1365
Retention Time (minutes): 9.308
Quant Ion : 91.00
Area (flag) : 825404M
On-Column Amount (ng) : 20.2002
Integration start scan : 1360 Integration stop scan: 1370
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

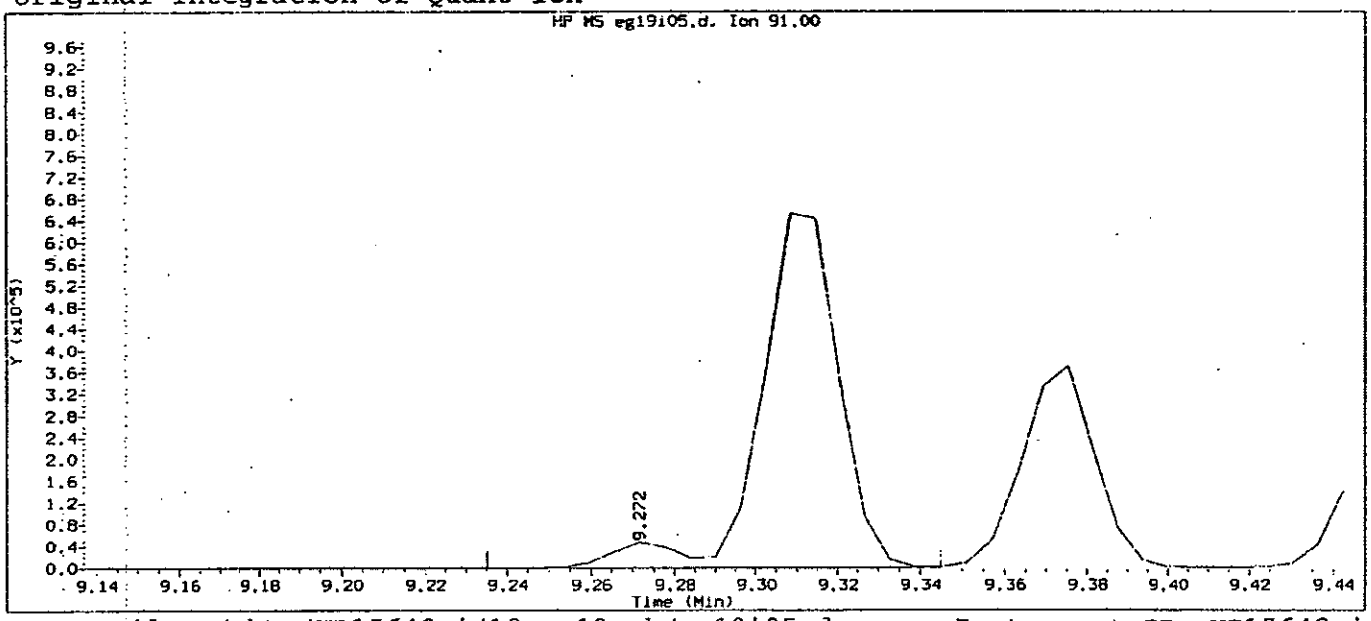
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: JMLong 8/20/10 PTL06 8293

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

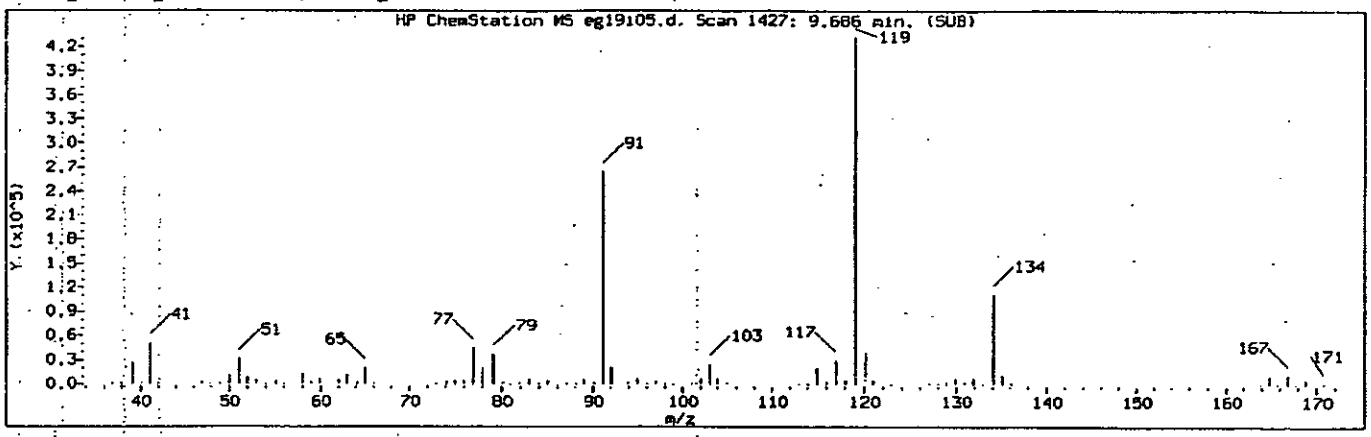
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 91.00
Area : 871606
On-column Amount (ng) : 15.9991
Integration start scan : 1352 Integration stop scan: 1370
Y at integration start : 0 Y at integration end: 0

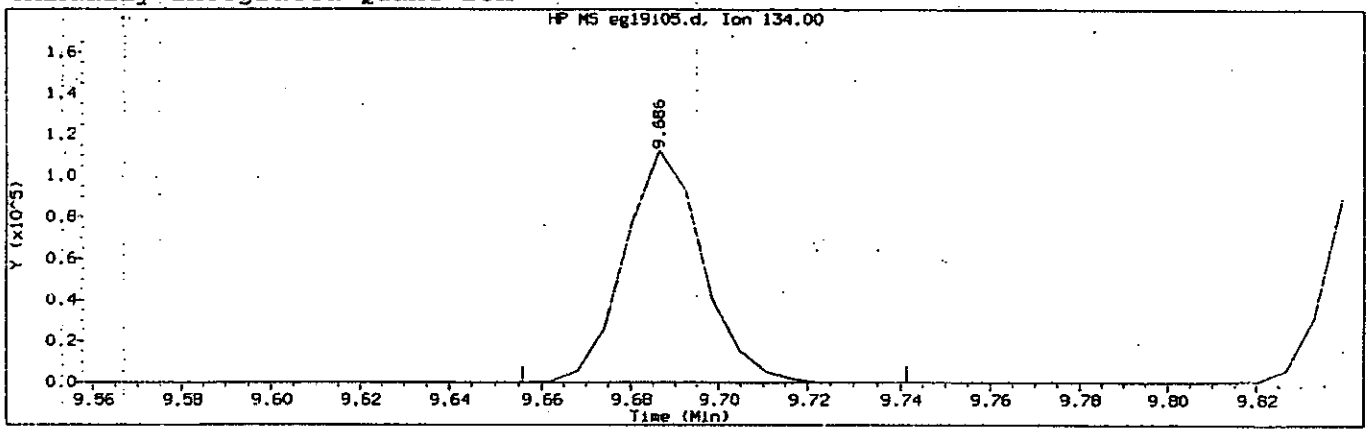
PTL86 0594

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 127		
Compound Name	: tert-Butylbenzene		
Scan Number	: 1427		
Retention Time (minutes)	: 9.686		
Quant Ion	: 134.00		
Area (flag)	: 138252M		
On-Column Amount (ng)	: 19.9139		
Integration start scan	: 1421	Integration stop scan:	1435
Y at integration start	: 0	Y at integration end:	0

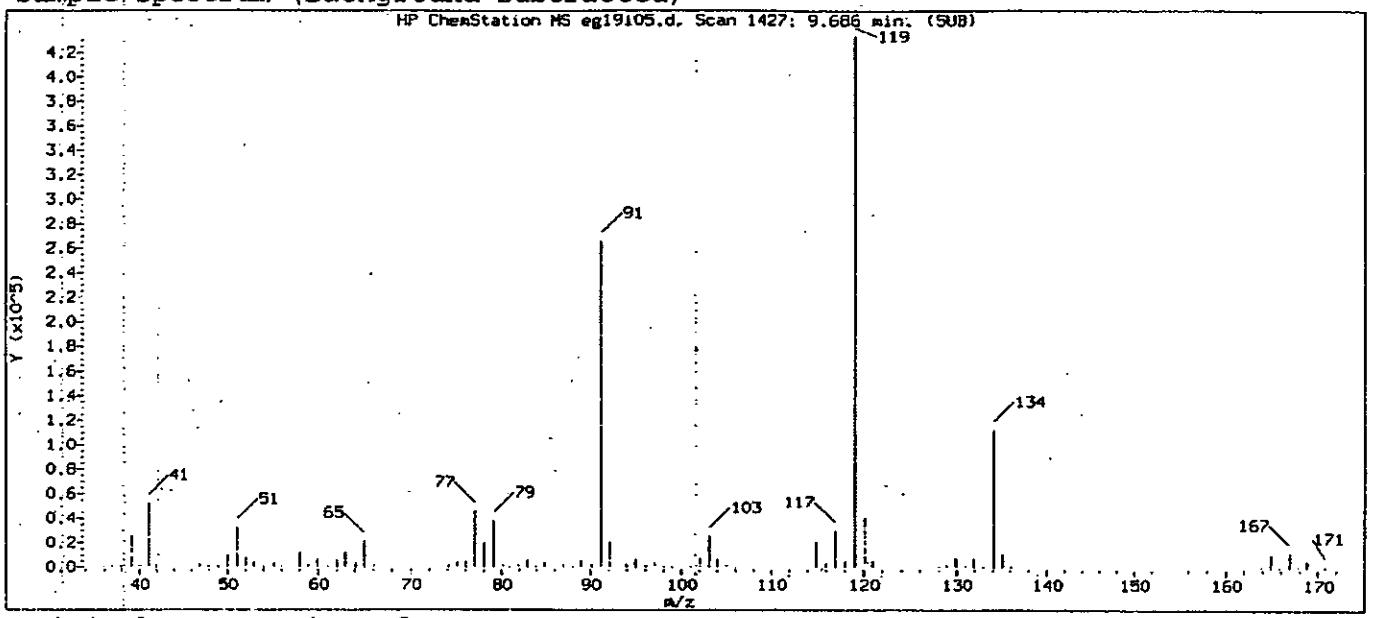
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

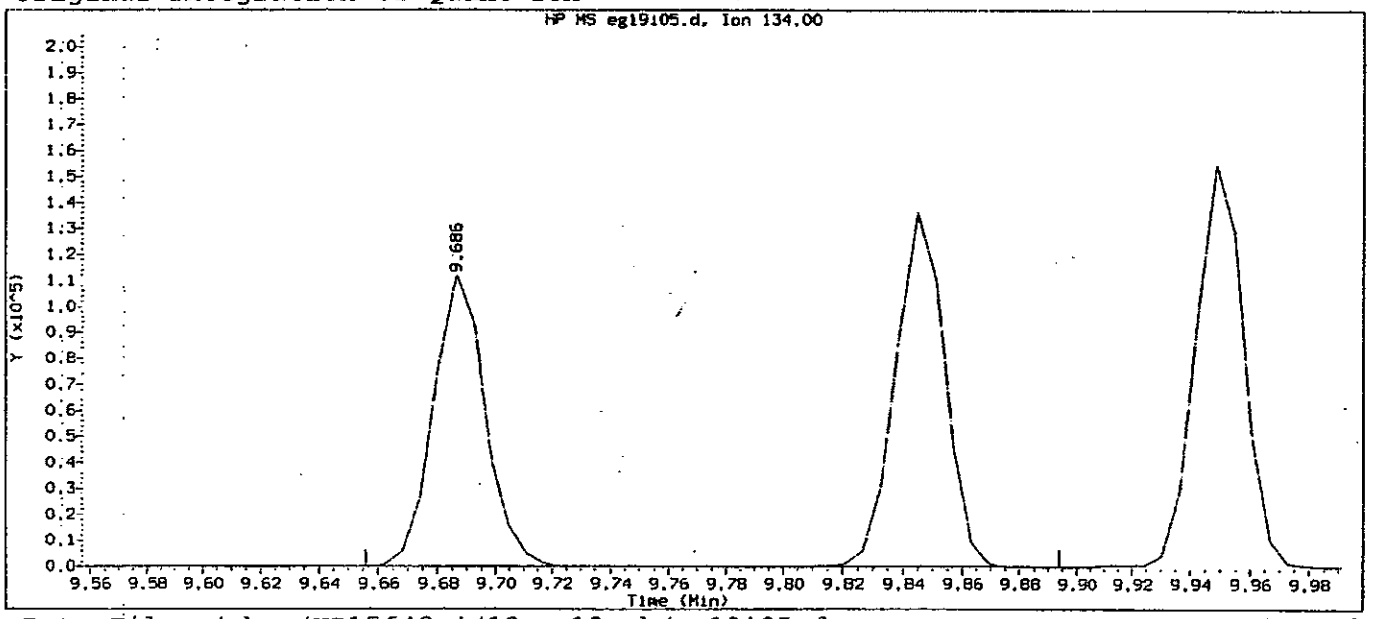
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0295

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

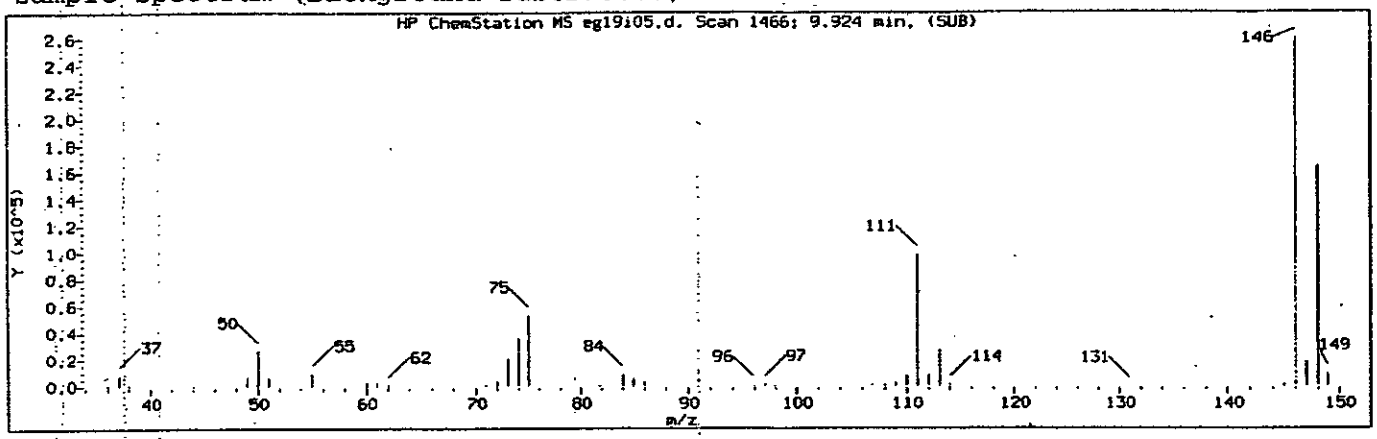
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 127
Compound Name : tert-Butylbenzene
Scan Number : 1427
Retention Time (minutes): 9.686
Quant Ion : 134.00
Area : 295525
On-column Amount (ng) : 22.6232
Integration start scan : 1421 Integration stop scan: 1460
Y at integration start : 0 Y at integration end: 0

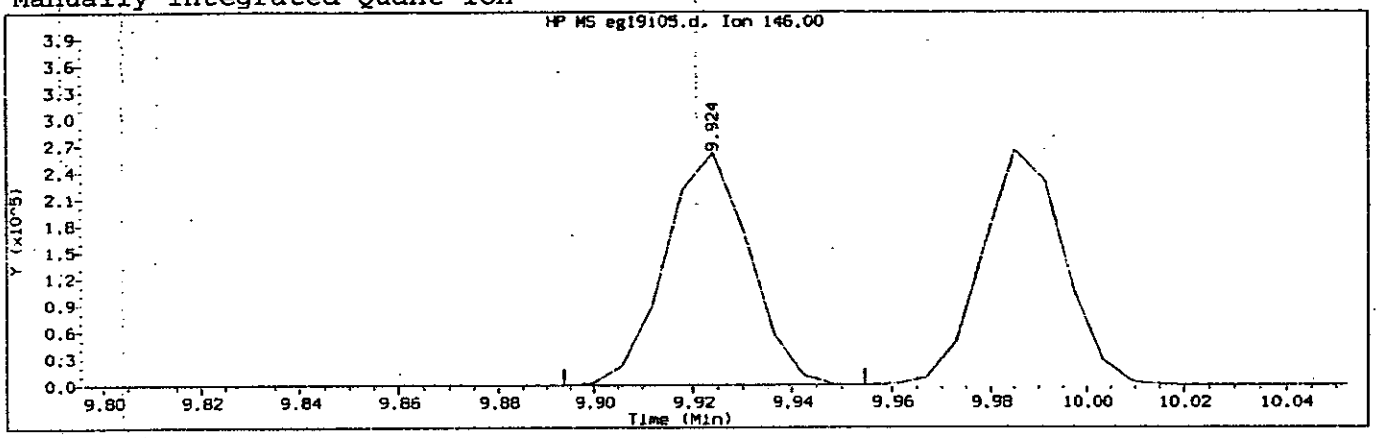
PTL06 0296

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 133
Compound Name : 1,3-Dichlorobenzene
Scan Number : 1466
Retention Time (minutes): 9.924
Quant Ion : 146.00
Area (flag) : 306287M
On-Column Amount (ng) : 19.8367
Integration start scan : 1460 Integration stop scan: 1470
Y at integration start : 0 Y at integration end: 0

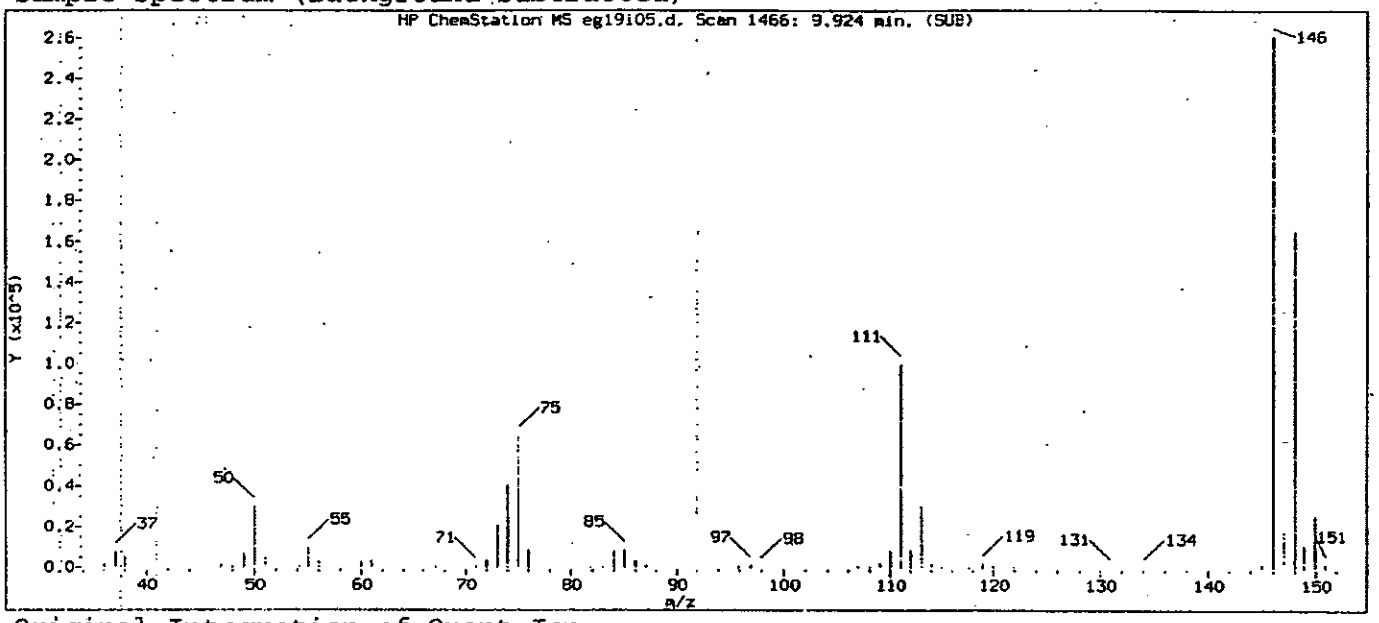
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

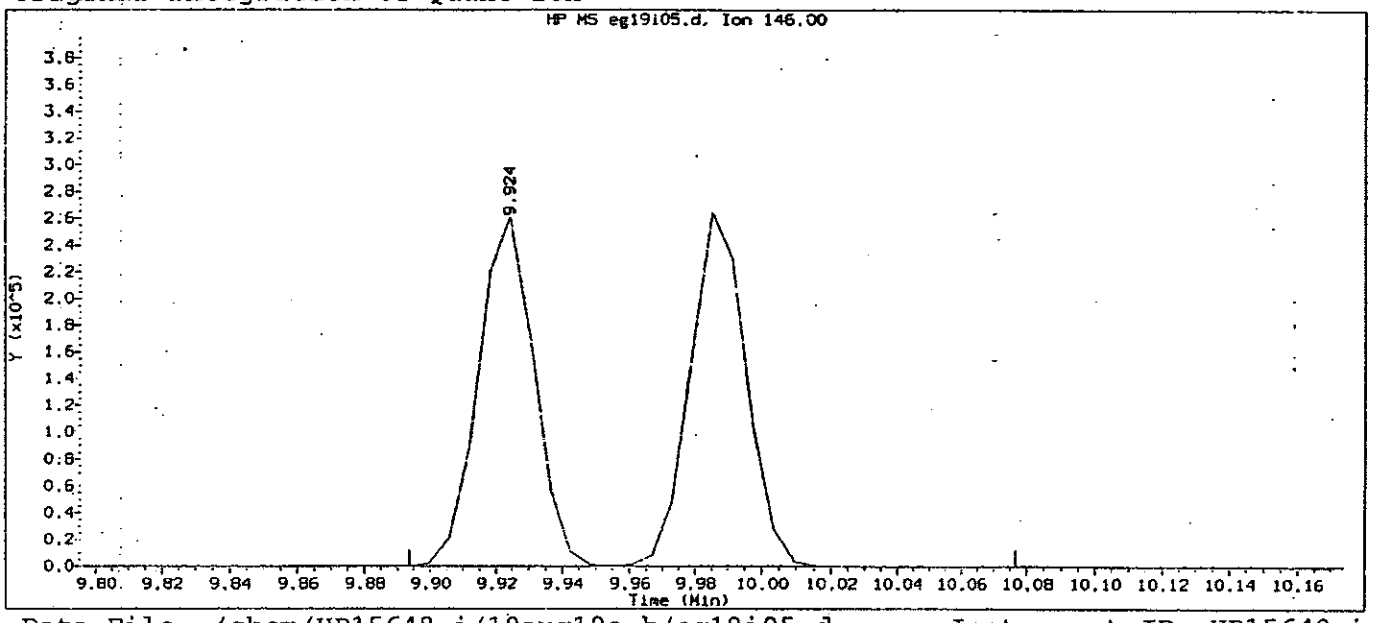
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8297

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

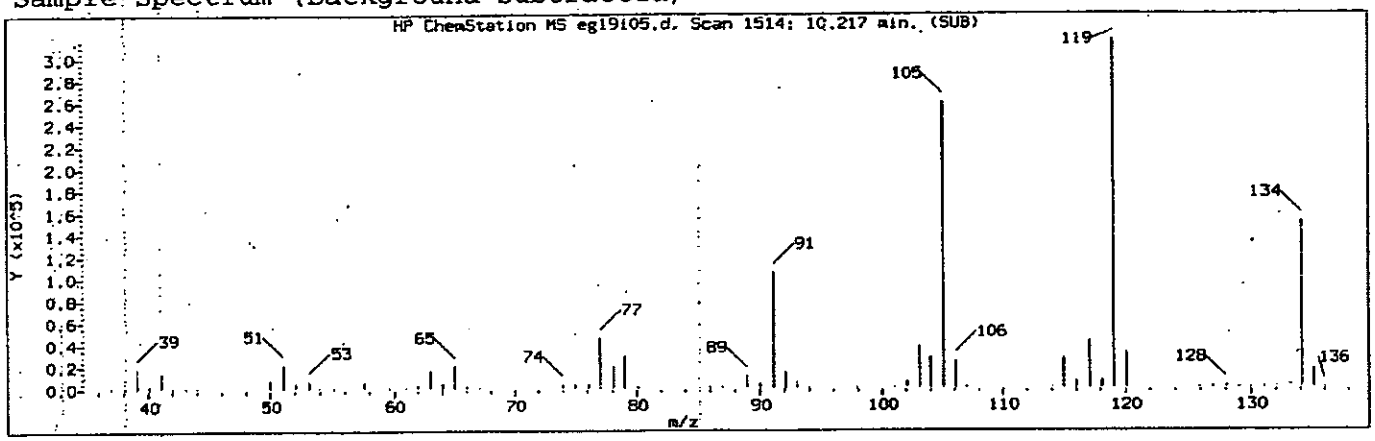
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

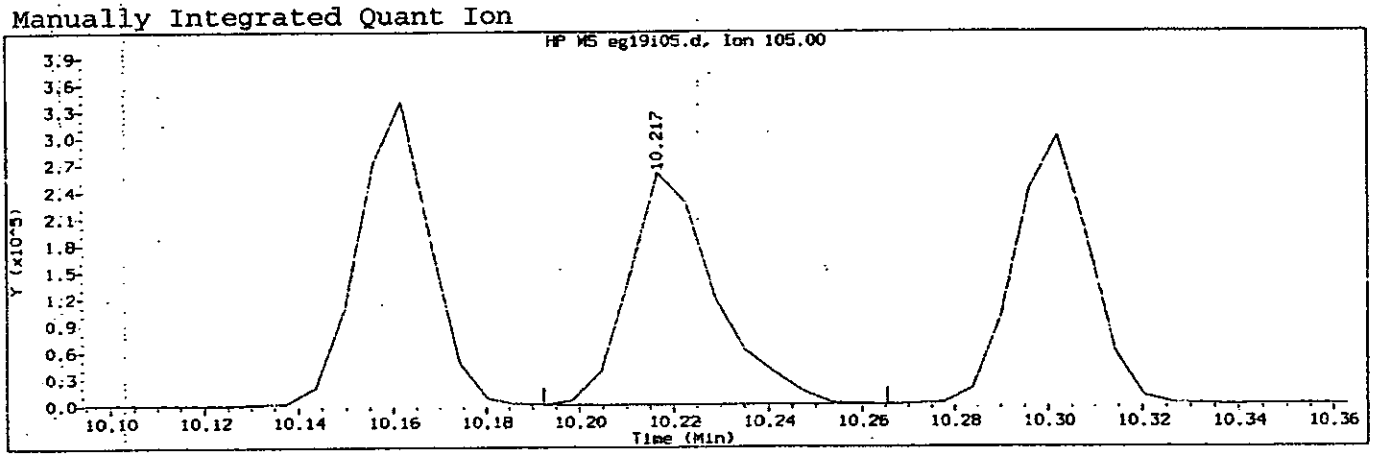
Compound Number : 133
Compound Name : 1,3-Dichlorobenzene
Scan Number : 1466
Retention Time (minutes): 9.924
Quant Ion : 146.00
Area : 617749
On-column Amount (ng) : 22.5412
Integration start scan : 1460 Integration stop scan: 1490 PTL86 0298
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

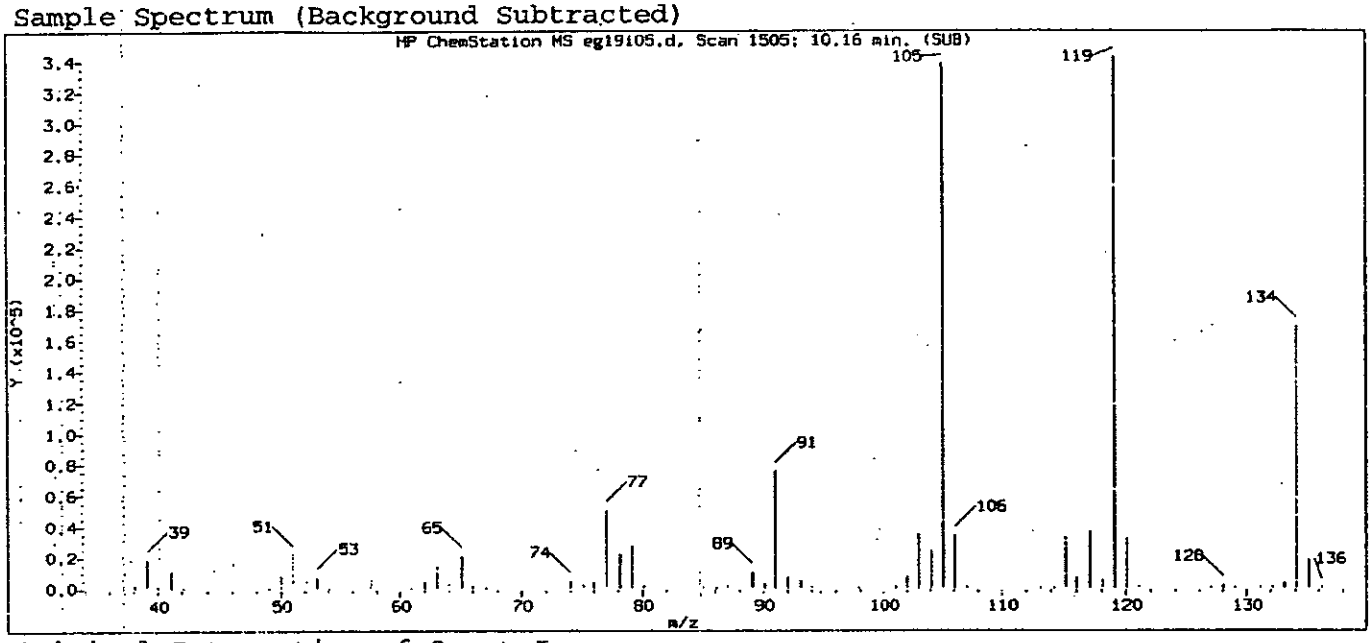
Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1514
Retention Time (minutes): 10.217
Quant Ion : 105.00
Area (flag) : 331470M
On-Column Amount (ng) : 19.3855
Integration start scan : 1509 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

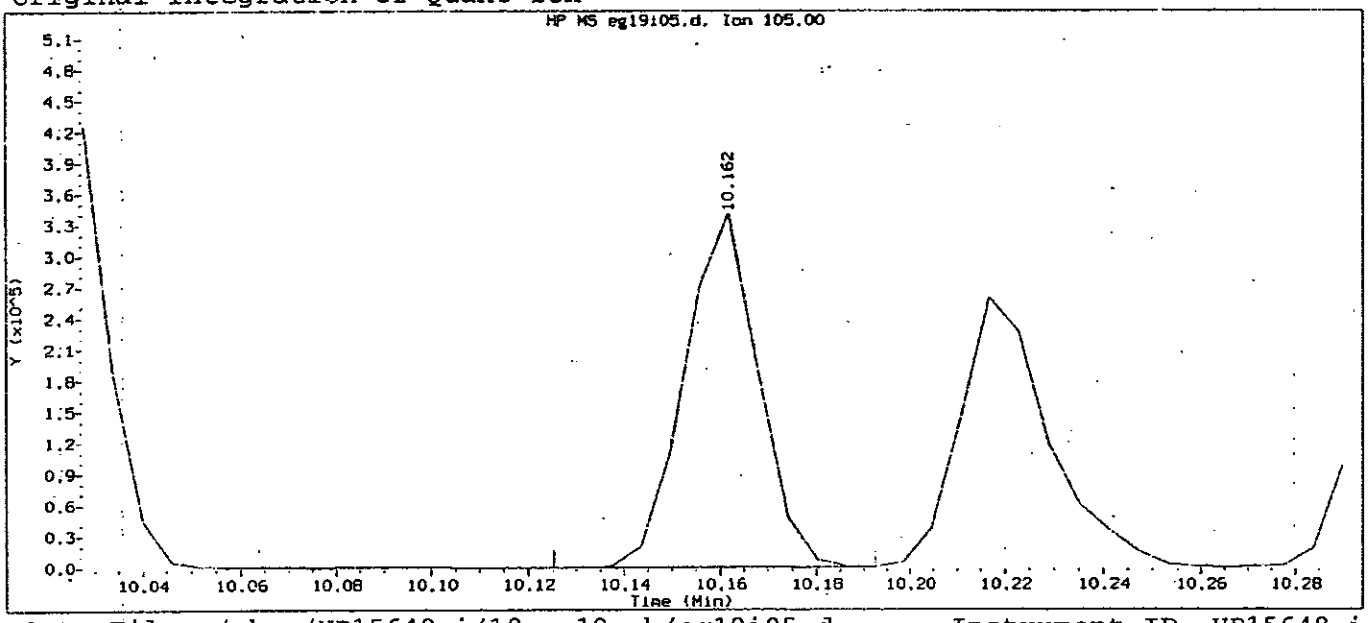
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [signature] 8/20/10 PTL06 0299

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

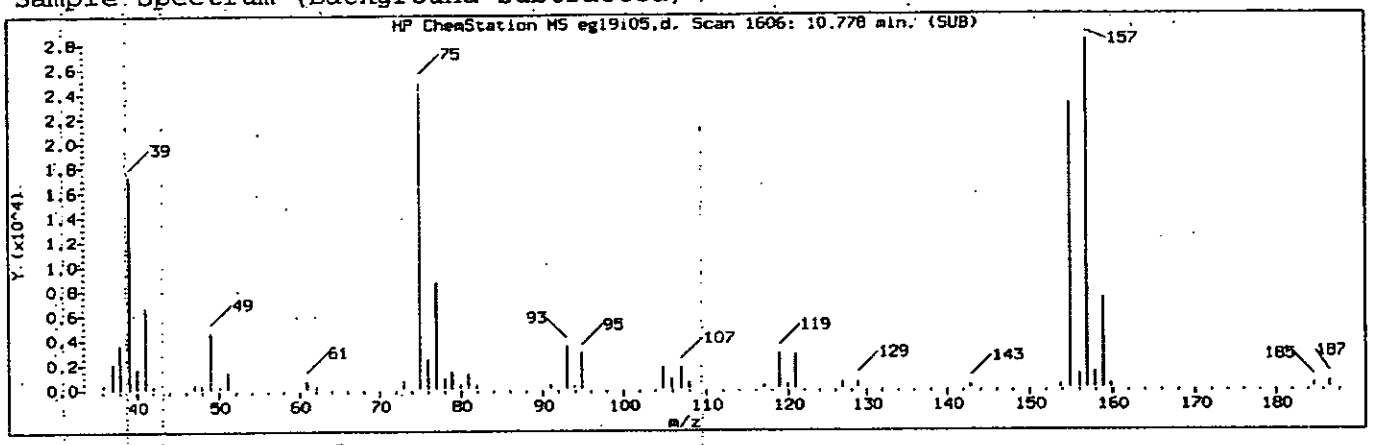
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

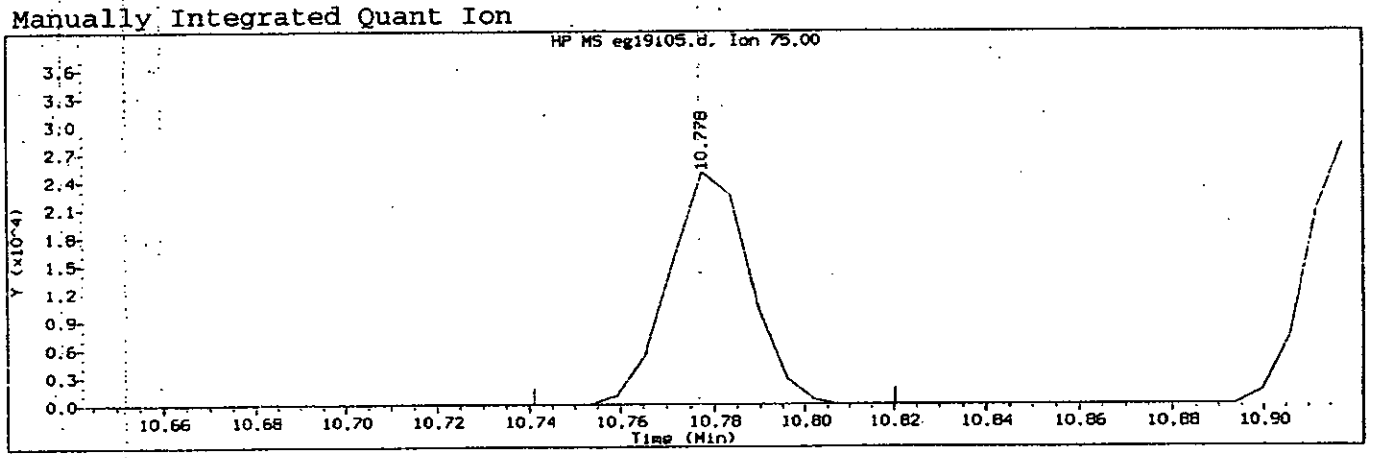
Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 361481
On-column Amount (ng) : 15.8704
Integration start scan : 1498 Integration stop scan: 1509 PTL86 8300
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area (flag) : 30093M
On-Column Amount (ng) : 19.3272
Integration start scan : 1599 Integration stop scan: 1612
Y at integration start : 0 Y at integration end: 0

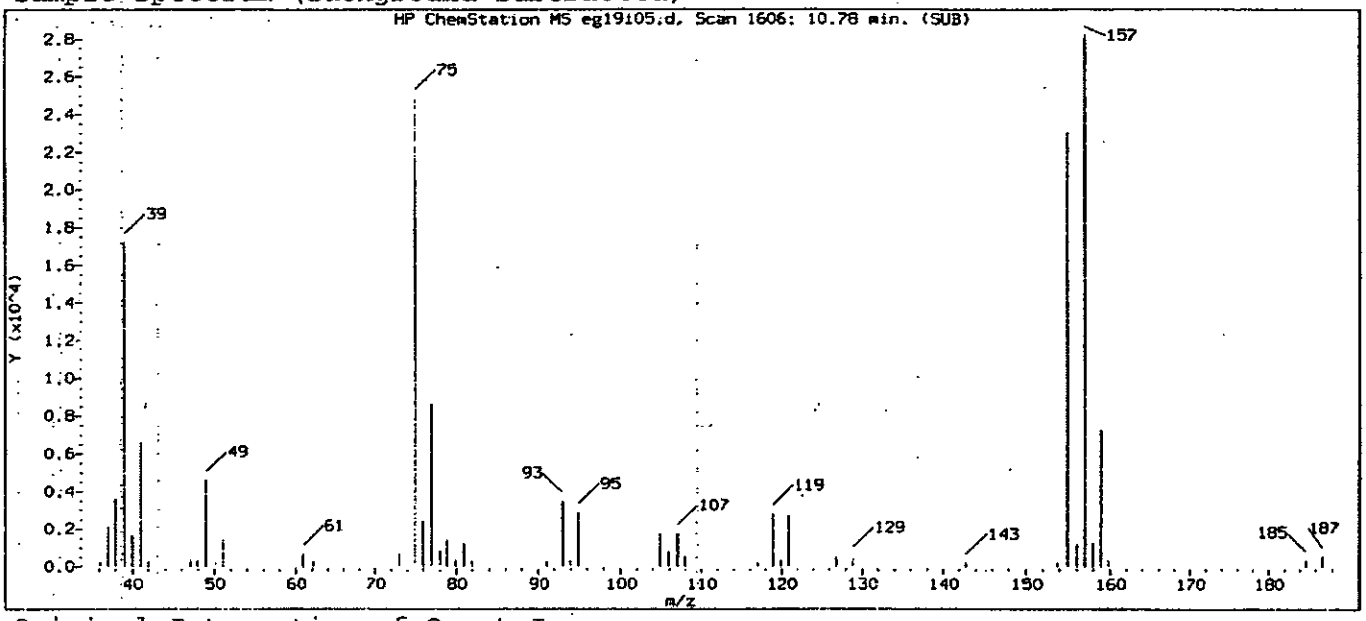
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

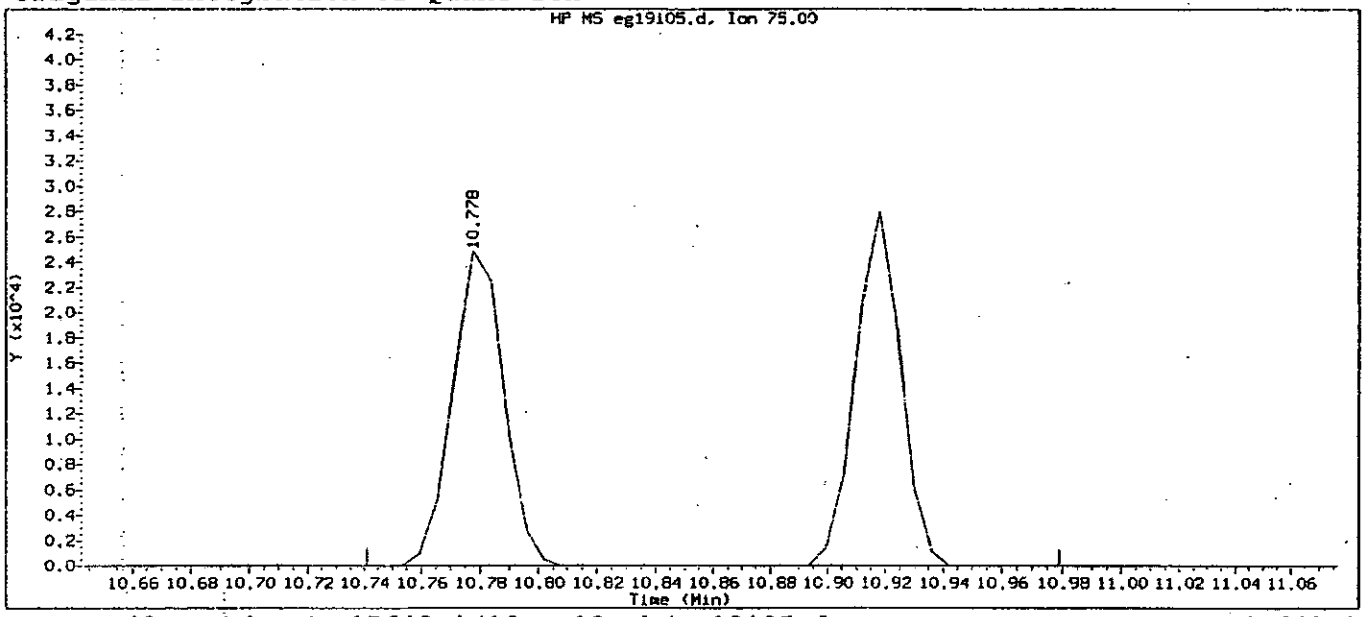
GC/MS audit/management approval: JMLong 8/20/10

PTL06 0381

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

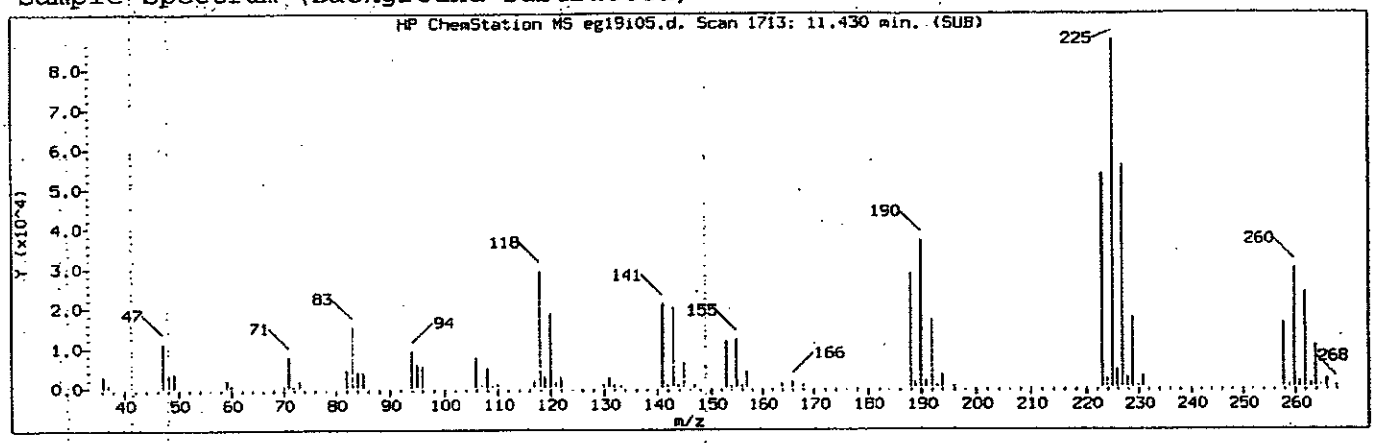
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area : 60583
On-column Amount (ng) : 18.1967
Integration start scan : 1599 Integration stop scan: 1638
Y at integration start : 0 Y at integration end: 0

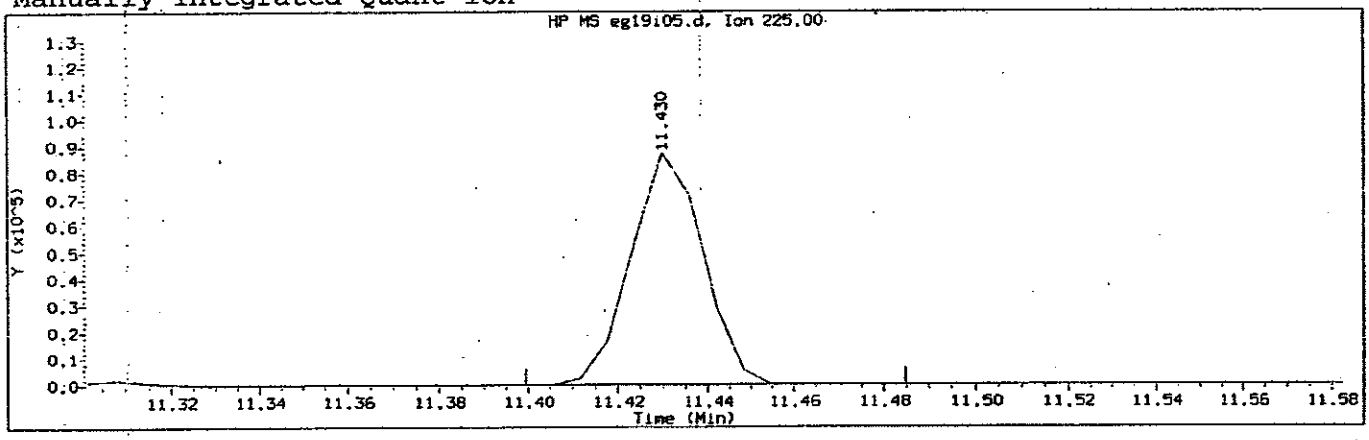
PTL86 0302

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 20-AUG-2010 08:24
Date, time and analyst ID of latest file update: 20-Aug-2010 08:24 jml01693

Sample Name: VSTD020 Lab Sample ID: VSTD020

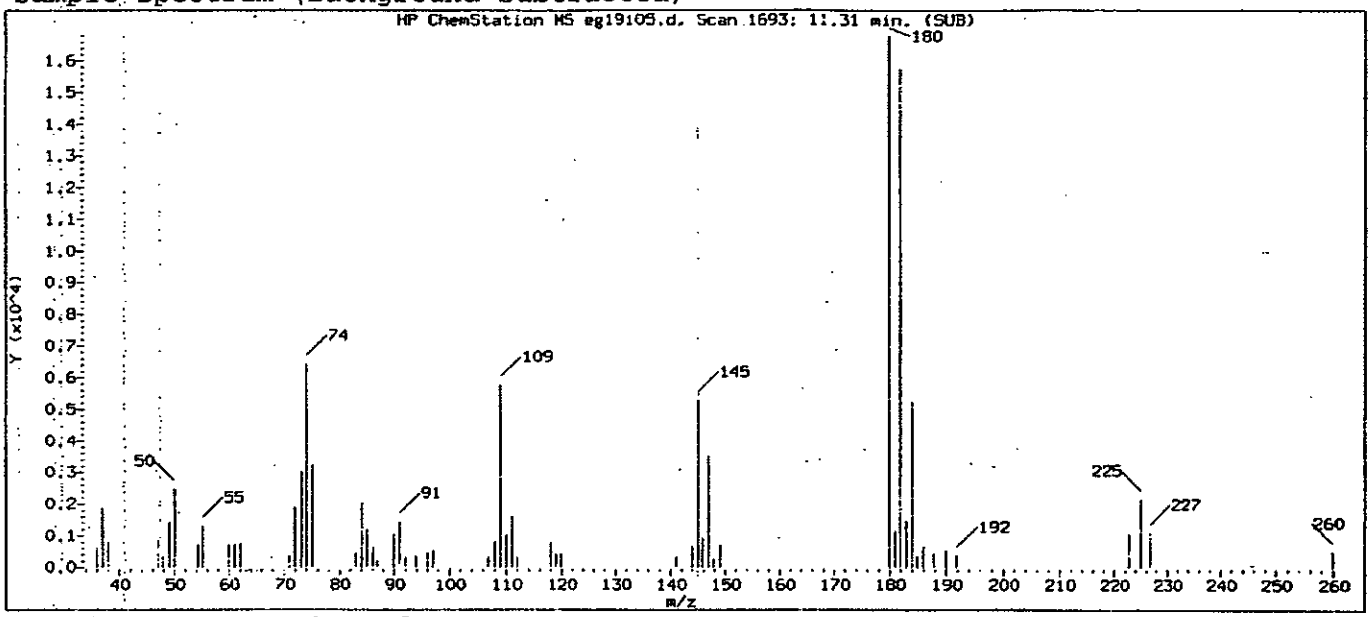
Compound Number : 147
Compound Name : Hexachlorobutadiene
Scan Number : 1713
Retention Time (minutes): 11.430
Quant Ion : 225.00
Area (flag) : 97558M
On-Column Amount (ng) : 19.4958
Integration start scan : 1707 Integration stop scan: 1721
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

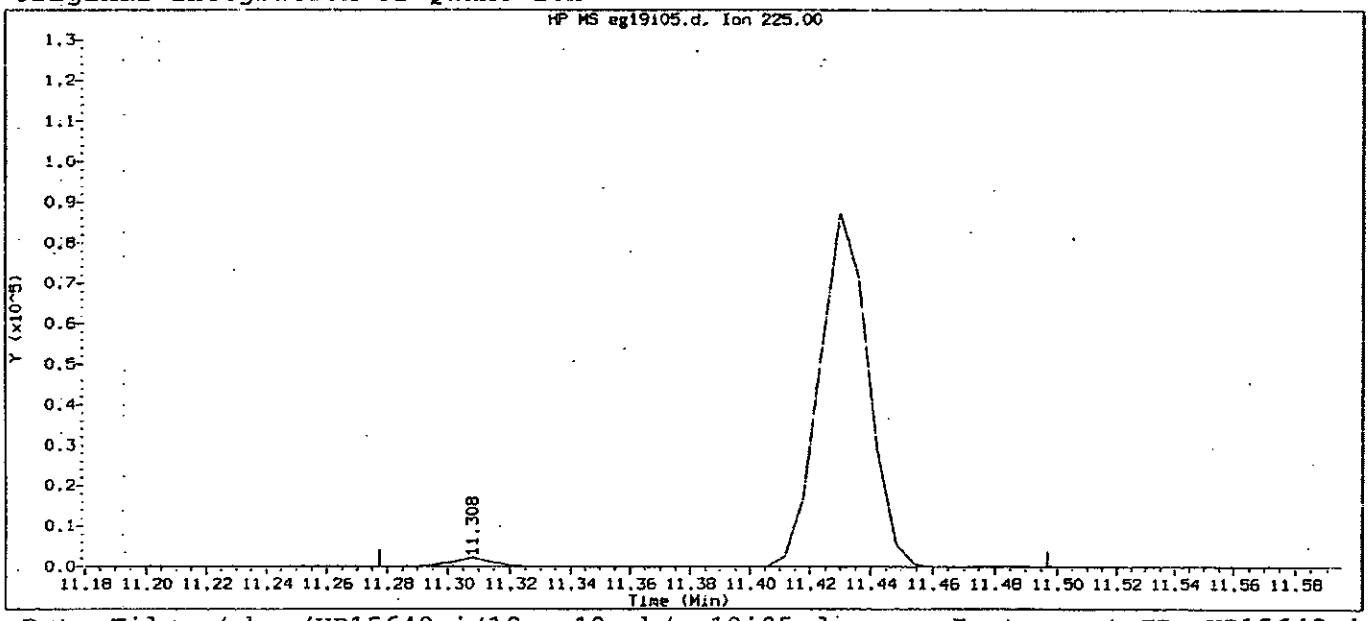
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 08:33. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [signature] 8/20/10 PTL06 0383

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i05.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 15:47 Analyst ID: JML01693

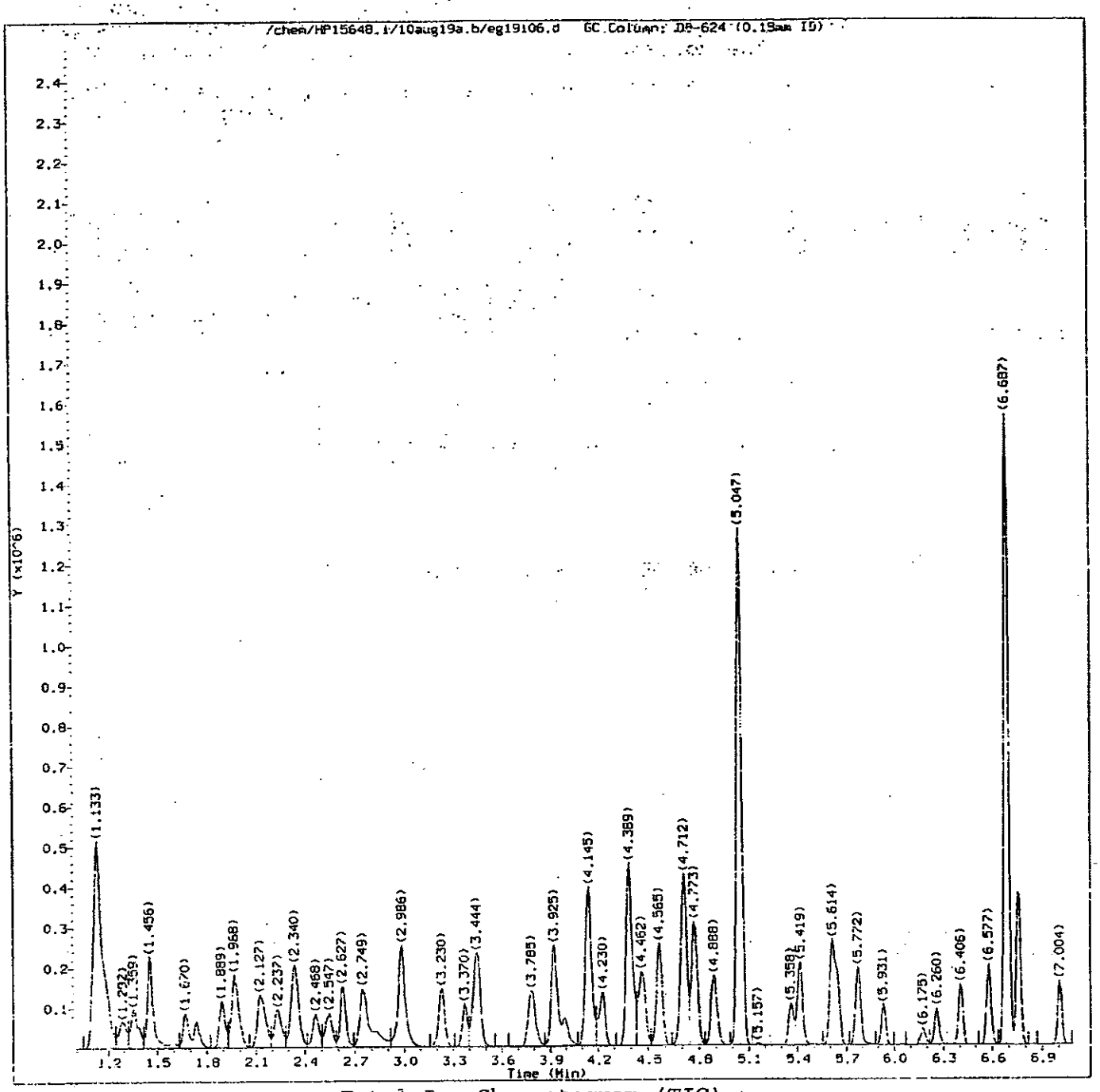
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:04
Date, time and analyst ID of latest file update: 19-Aug-2010 16:04 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 147
Compound Name	: Hexachlorobutadiene
Scan Number	: 1693
Retention Time (minutes)	: 11.308
Quant Ion	: 225.00
Area	: 99605
On-column Amount (ng)	: 19.1991
Integration start scan	: 1687 Integration stop scan: 1723
Y at integration start	: 0 Y at integration end: 0

PTL86 0384

Digitally signed by Jason M. Long on 08/20/2010 at 08:33.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d
Injection date and time: 19-AUG-2010 16:07

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

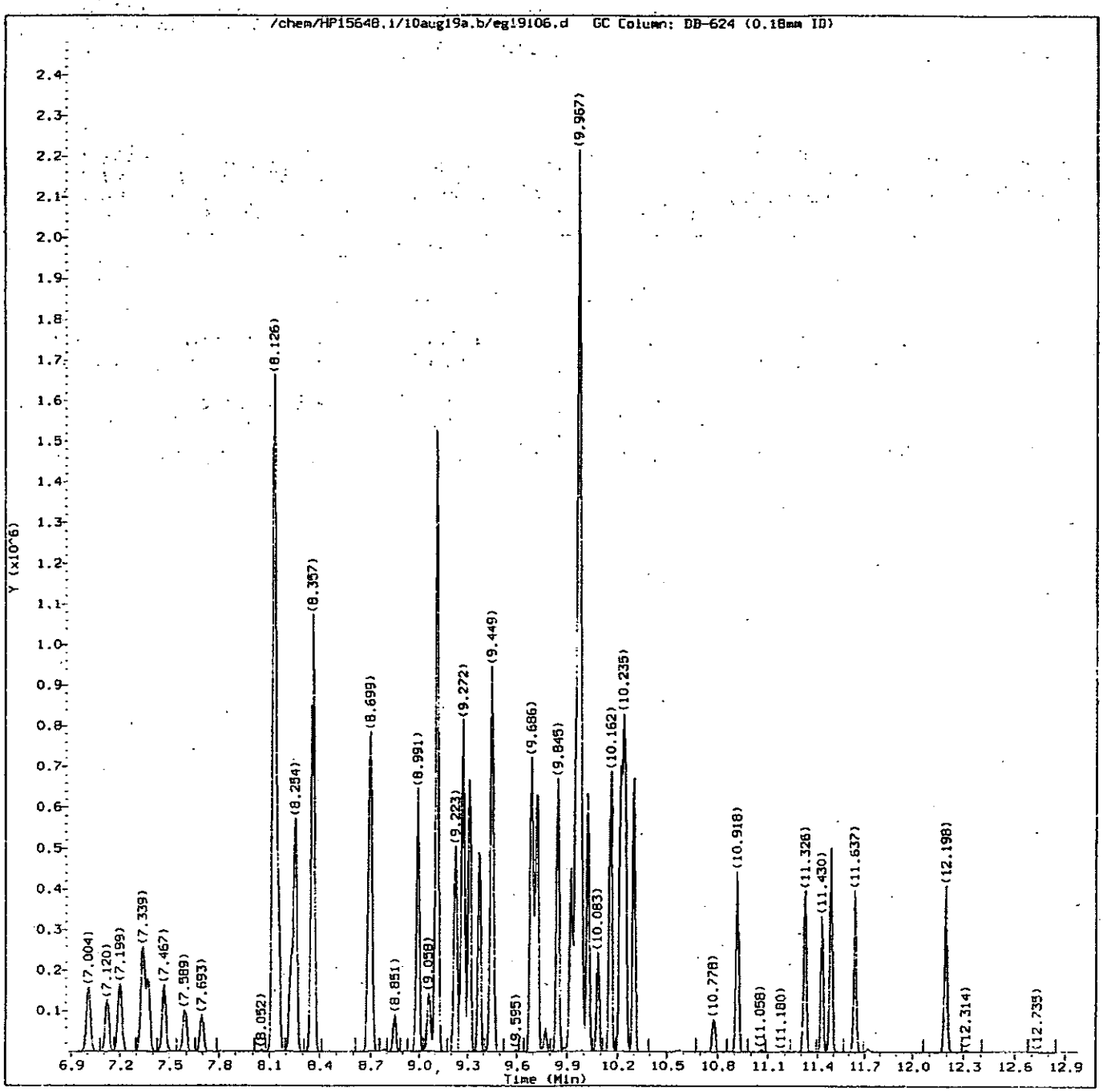
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010

Lab Sample ID: VSTD010

PTL86 8385

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d
Injection date and time: 19-AUG-2010 16:07

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010

Lab Sample ID: VSTD010

PTL06 0386

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.292	85	103362	10.004
2) Chloromethane	(1)	1.365	50	106043	10.063
3) 1,3-Butadiene	(1)	1.456	39	69805	10.519
4) Vinyl Chloride	(1)	1.462	62	102190M	10.031
5) Bromomethane	(1)	1.670	94	66538	10.314
6) Chloroethane	(1)	1.737	64	59993	9.965
7) Dichlorofluoromethane	(1)	1.889	67	135579	10.311
8) Trichlorofluoromethane	(1)	1.968	101	108565M	9.731
9) n-Pentane	(1)	1.968	43	124096	10.115
12) Ethyl Ether	(1)	2.121	59	55418	9.673
13) Frecn 123a	(1)	2.145	67	84970	10.270
14) Acrolein	(4)	2.237	56	155555	119.864
15) 1,1-Dichloroethene	(1)	2.334	96	66355	9.967
17) Freon 113	(1)	2.346	101	63545	9.484
16) Acetone	(1)	2.358	43	41624	19.667
18) Methyl Iodide	(1)	2.468	142	108671	9.903
21) Carbon Disulfide	(1)	2.547	76	182175M	9.911
22) Allyl Chloride	(1)	2.627	41	104787	9.777
23) Methyl Acetate	(1)	2.639	43	51962	9.205
24) Methylene Chloride	(1)	2.749	84	70530	10.130
25) *t-Butyl Alcohol-d10	(4)	2.761	65	143828	250.000
26) t-Butyl Alcohol	(4)	2.828	59	69318M	122.377
27) Acrylonitrile	(1)	2.962	53	30335	9.568
28) trans-1,2-Dichloroethene	(1)	2.986	96	67494	9.740
29) Methyl Tertiary Butyl Ether	(1)	2.986	73	185953	9.721
31) n-Hexane	(1)	3.230	57	103256	9.594
33) 1,1-Dichloroethane	(1)	3.370	63	121607	9.806
34) di-Isopropyl Ether	(1)	3.438	45	203498	9.740
35) 2-Chloro-1,3-Butadiene	(1)	3.456	53	92948	9.634
36) 1,2-Dichloroethene (total)	(1)		96	139296	19.554
37) Ethyl t-Butyl Ether	(1)	3.785	59	190583M	9.771
39) cis-1,2-Dichloroethene	(1)	3.919	96	71802	9.814
41) 2,2-Dichloropropane	(1)	3.931	77	89550	9.683
40) 2-Butanone	(1)	3.937	43	69846	19.668
42) Propionitrile	(4)	3.998	54	108053	121.652
44) Methacrylonitrile	(1)	4.139	67	156254	49.819
45) Bromochloromethane	(1)	4.151	128	33901	9.754
46) Tetrahydrofuran	(4)	4.193	71	20490	24.473
47) Chloroform	(1)	4.230	83	108060	9.839

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
51)$Dibromofluoromethane(mz111)	(1)	4.382	111	268934	49.870
50)$Dibromofluoromethane	(1)	4.389	113	264890	50.414
52) 1,1,1-Trichloroethane	(1)	4.407	97	103538	9.787
53) Cyclohexane	(1)	4.462	56	124913	9.618
56) Carbon Tetrachloride	(1)	4.565	117	73636	9.590
55) 1,1-Dichloropropene	(1)	4.565	75	97179	9.721
58) Isobutyl Alcohol	(4)	4.687	41	56441	304.389
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.712	104	44461	49.492
59)$1,2-Dichloroethane-d4	(1)	4.712	102	71095	50.960
63) Benzene	(1)	4.767	78	278488	9.740
65) 1,2-Dichloroethane	(1)	4.791	62	81856	10.004
67) t-Amyl Methyl Ether	(1)	4.888	73	183684	9.705
68) n-Heptane	(1)	5.041	43	99166	9.262
69)*Fluorobenzene	(1)	5.047	96	1175092	50.000
71) n-Butanol	(4)	5.358	56	95081	603.350
72) Trichloroethene	(1)	5.413	95	71053	9.667
74) Methylcyclohexane	(1)	5.608	83	128875	9.466
76) 1,2-Dichloropropane	(1)	5.644	63	70900	9.805
78) Dibromomethane	(1)	5.766	93	39664M	9.630
79) Methyl Methacrylate	(1)	5.779	69	55016	9.071
80) 1,4-Dioxane	(4)	5.785	88	15018	271.959
81) Bromodichloromethane	(1)	5.931	83	73568	9.501
82) 2-Nitropropane	(1)	6.175	41	26260	19.380
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	46470	9.404
87) cis-1,3-Dichloropropene	(1)	6.406	75	98721	9.613
88) 4-Methyl-2-Pentanone	(1)	6.577	43	147967	18.767
90)$Toluene-d8	(2)	6.687	98	1166844	49.741
89)$Toluene-d8(mz100)	(2)	6.687	100	753789	49.682
91) Toluene	(2)	6.760	92	180996	9.731
92) trans-1,3-Dichloropropene	(2)	7.004	75	89742	9.436
93) Ethyl Methacrylate	(2)	7.120	69	72057	9.160
94) 1,1,2-Trichloroethane	(2)	7.199	97	57683	9.604
96) Tetrachloroethene	(2)	7.333	166	83755	9.685
97) 1,3-Dichloropropane	(2)	7.370	76	103242	9.733
98) 2-Hexanone	(2)	7.467	43	103531	19.066
100) Dibromochloromethane	(2)	7.595	129	54482	9.303
101) 1,2-Dibromoethane	(2)	7.693	107	58141	9.519
103)*Chlorobenzene-d5	(2)	8.126	117	848292	50.000
104) Chlorobenzene	(2)	8.150	112	193460	9.608

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0300

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on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
105) Xylene (Total)	(2)		106	397381	28.684
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	56640	9.445
107) Ethylbenzene	(2)	8.254	91	343481	9.638
108) m+p-Xylene	(2)	8.357	106	268215	19.154
110) o-Xylene	(2)	8.693	106	129166	9.530
111) Styrene	(2)	8.705	104	197466	9.228
112) Bromoform	(2)	8.851	173	37723	8.785
113) Isopropylbenzene	(2)	8.991	105	340976	9.558
115) Cyclohexanone	(4)	9.058	55	52510	290.897
117)$4-Bromofluorobenzene(mz174)	(2)	9.107	174	352642	49.292
116)$4-Bromofluorobenzene	(2)	9.107	95	412532	49.570
118) Bromobenzene	(3)	9.223	156	78709	9.798
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	83049M	9.495
120) 1,2,3-Trichloropropane	(3)	9.260	110	25222	9.776
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	122245	46.636
122) n-Propylbenzene	(3)	9.308	91	408424M	9.922
123) 2-Chlorotoluene	(3)	9.375	126	80875	9.853
124) 1,3,5-Trimethylbenzene	(3)	9.442	105	271588	9.660
125) 4-Chlorotoluene	(3)	9.455	126	81544	9.803
127) tert-Butylbenzene	(3)	9.686	134	67686M	9.678
128) Pentachloroethane	(3)	9.698	167	39771	9.502
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	280675	9.630
132) sec-Butylbenzene	(3)	9.845	105	358202	9.697
133) 1,3-Dichlorobenzene	(3)	9.924	146	151794	9.759
134) p-Isopropyltoluene	(3)	9.948	119	308865	9.617
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	453840	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	152847M	9.713
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	275850	9.663
138) Benzyl Chloride	(3)	10.083	91	133107MA	9.606
139) 1,3-Diethylbenzene	(3)	10.162	105	175741M	9.487
140) 1,4-Diethylbenzene	(3)	10.217	105	161683M	9.386
141) n-Butylbenzene	(3)	10.235	92	153255	9.536
142) 1,2-Dichlorobenzene	(3)	10.247	146	142249	9.560
143) 1,2-Diethylbenzene	(3)	10.302	105	166037	9.614
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	14690M	9.449
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	103337	9.539
147) Hexachlorobutadiene	(3)	11.430	225	47676M	9.457
148) Naphthalene	(3)	11.485	128	292988	9.382
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	98547	9.804

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL86 0389

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on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d
Injection date and time: 19-AUG-2010 16:07

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
152) 2-Methylnaphthalene	(3)	12.198	142	147567	8.944

PTL06 0311

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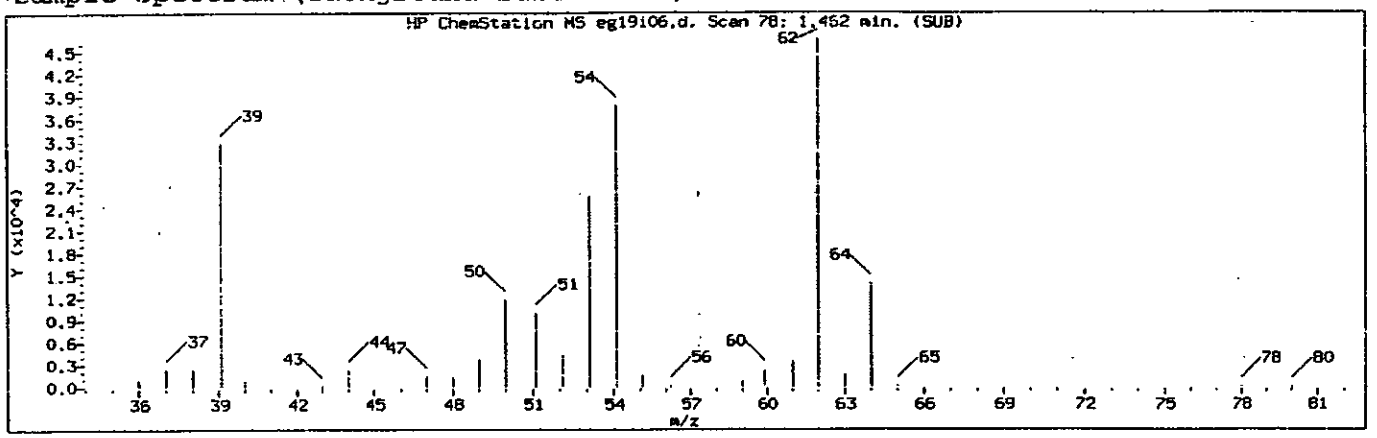
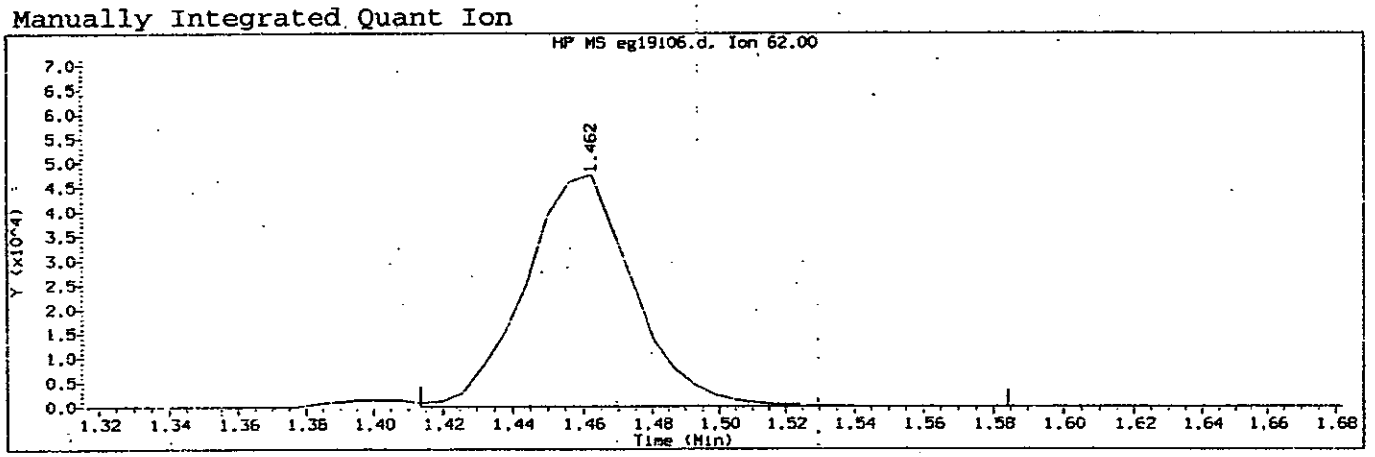
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

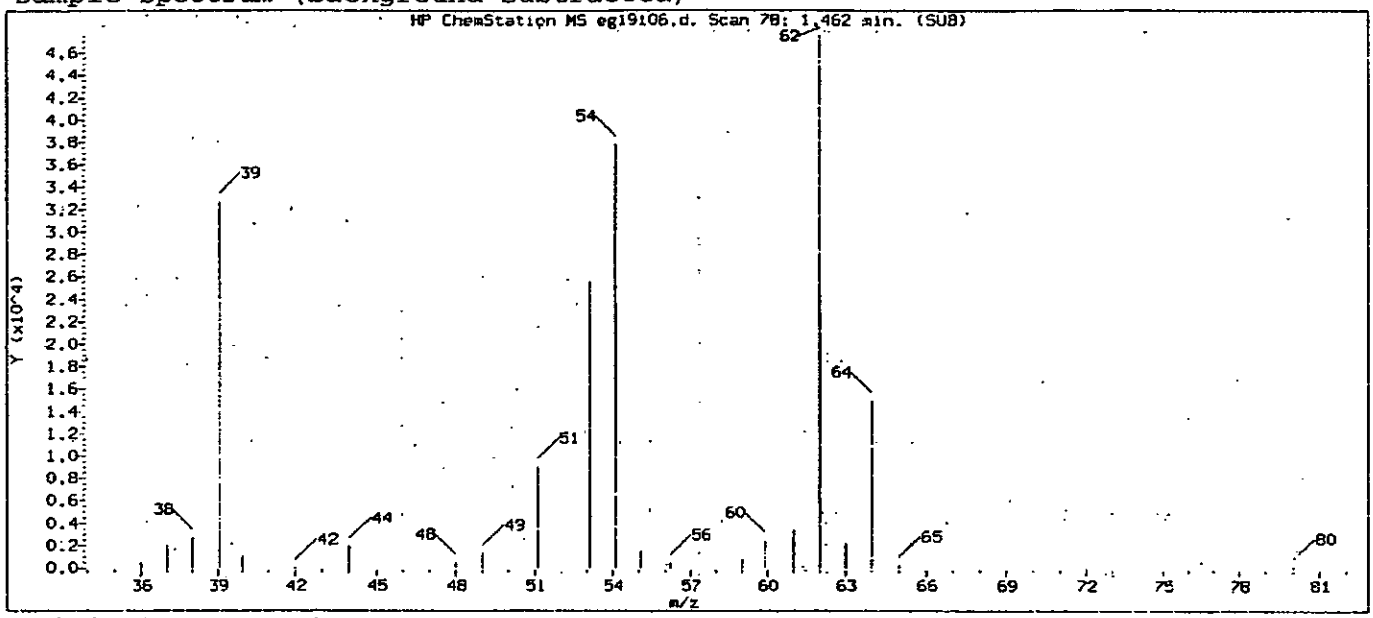
Compound Number : 4
Compound Name : Vinyl Chloride
Scan Number : 78
Retention Time (minutes): 1.462
Quant Ion : 62.00
Area (flag) : 102190M
On-Column Amount (ng) : 10.0312
Integration start scan : 69 Integration stop scan: 97
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

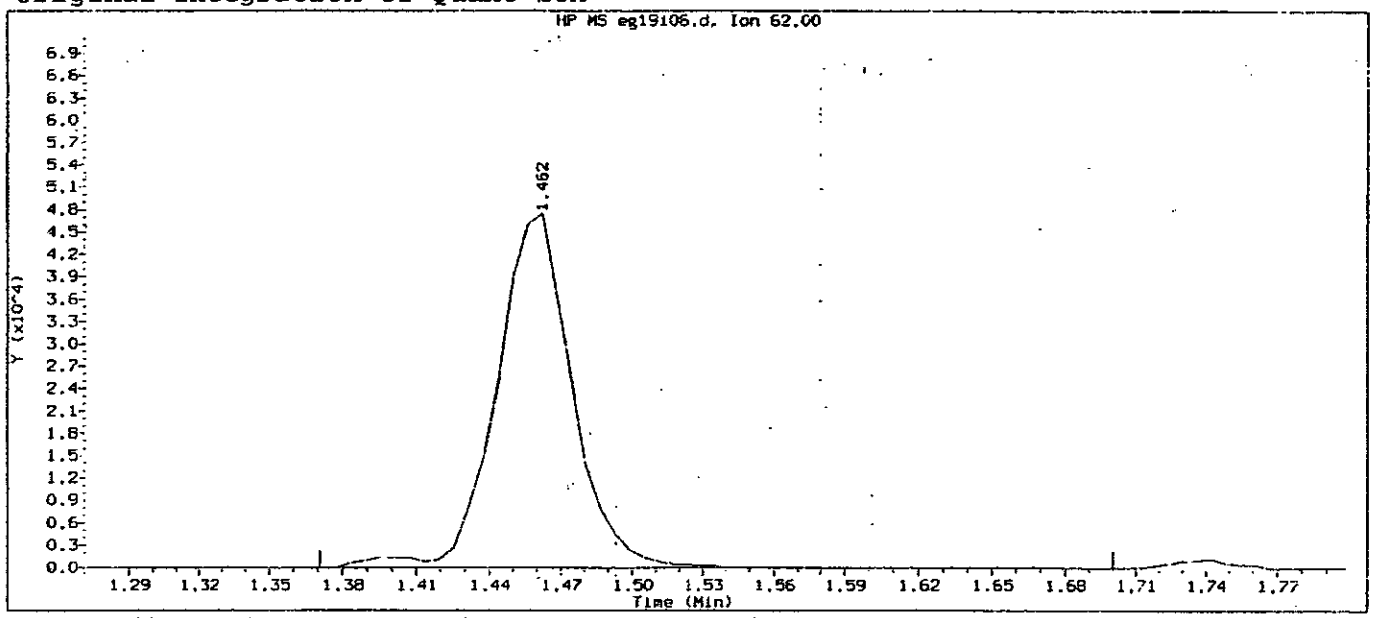
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [signature] 8/20/10 PTL06 0312

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 4
Compound Name : Vinyl Chloride
Scan Number : 78
Retention Time (minutes): 1.462
Quant Ion : 62.00
Area : 104270
On-column Amount (ng) : 10.2786
Integration start scan : 62 Integration stop scan: 116
Y at integration start : 0 Y at integration end: 0

PTL86 0313

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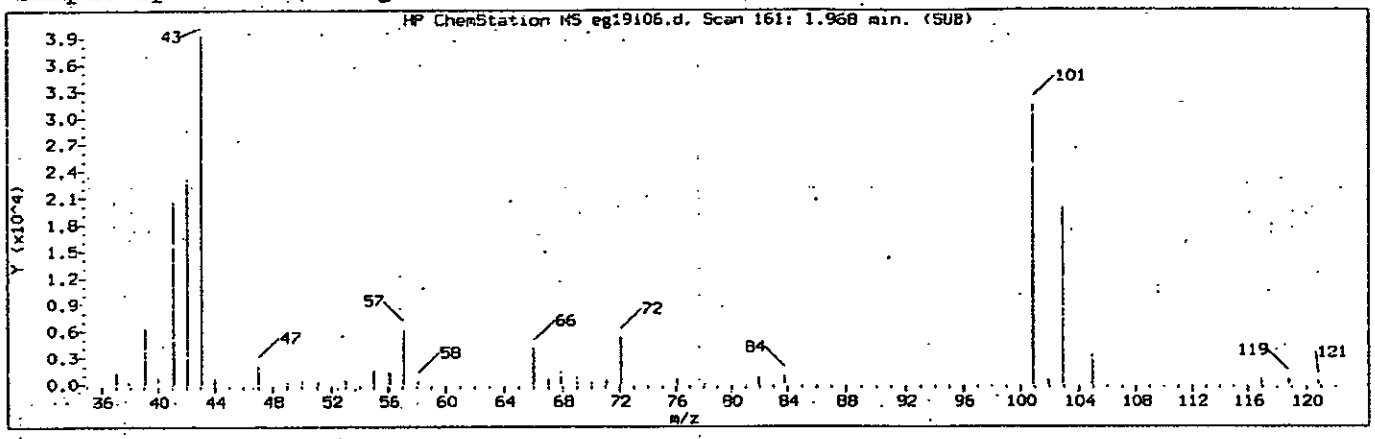
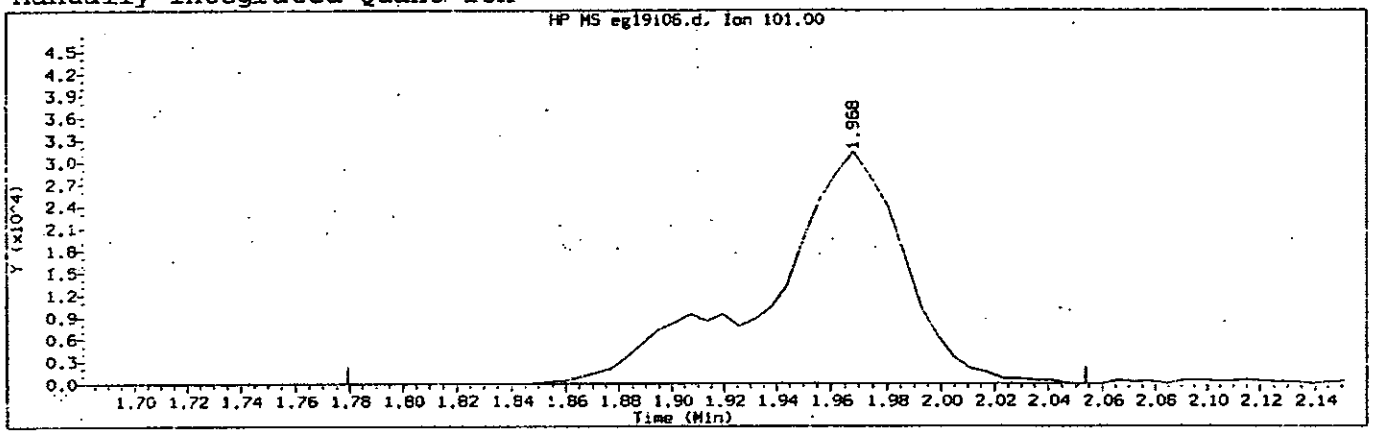
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

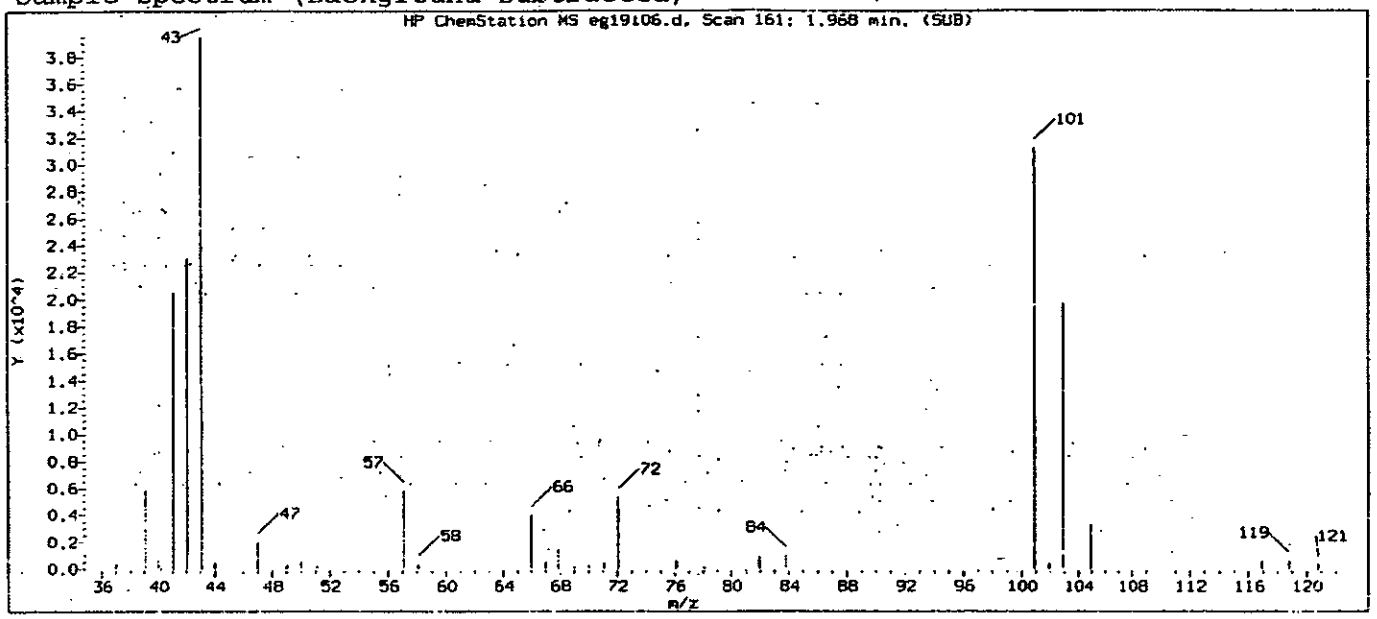
Compound Number : 8
Compound Name : Trichlorofluoromethane
Scan Number : 161
Retention Time (minutes): 1.968
Quant Ion : 101.00
Area (flag) : 108565M
On-Column Amount (ng) : 9.7310
Integration start scan : 129 Integration stop scan: 174
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

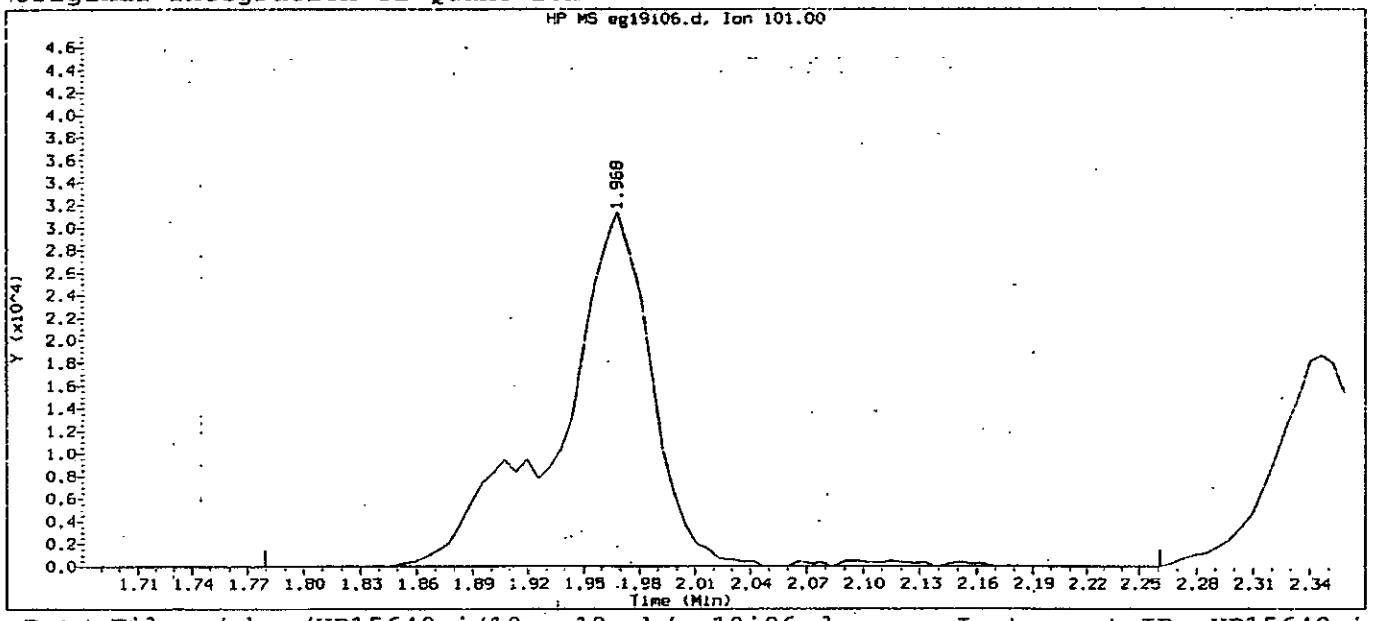
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [signature] 8/20/10 PTL86 0314

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 8
Compound Name : Trichlorofluoromethane
Scan Number : 161
Retention Time (minutes): 1.968
Quant Ion : 101.00
Area : 110580
On-column Amount (ng) : 9.9712
Integration start scan : 129 Integration stop scan: 208
Y at integration start : 0 Y at integration end: 0

PTL06 #315

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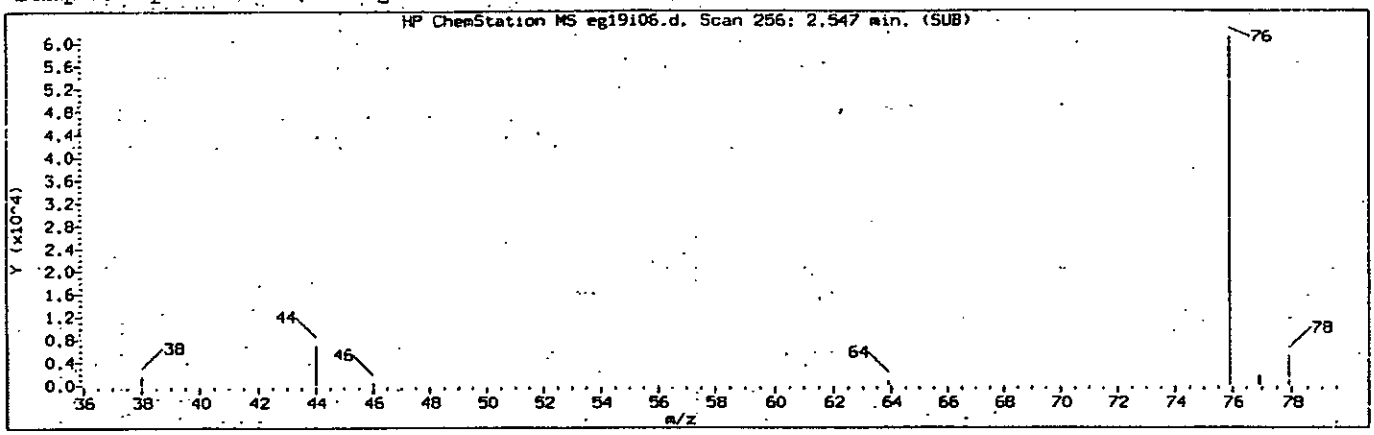
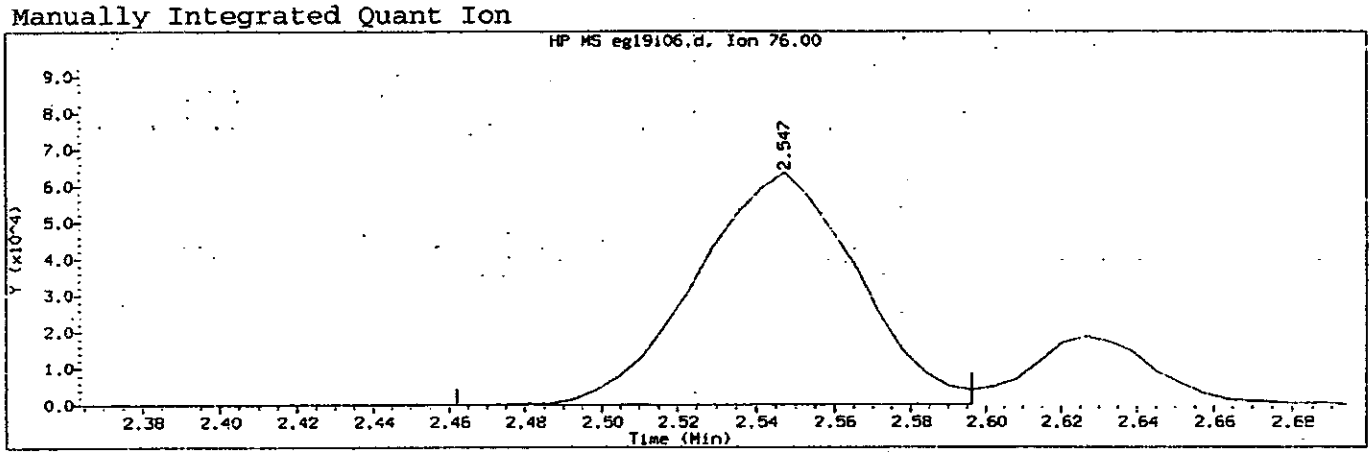
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 21
Compound Name : Carbon Disulfide
Scan Number : 256
Retention Time (minutes): 2.547
Quant Ion : 76.00
Area (flag) : 182175M
On-Column Amount (ng) : 9.9114
Integration start scan : 241 Integration stop scan: 263
Y at integration start : 0 Y at integration end: 0

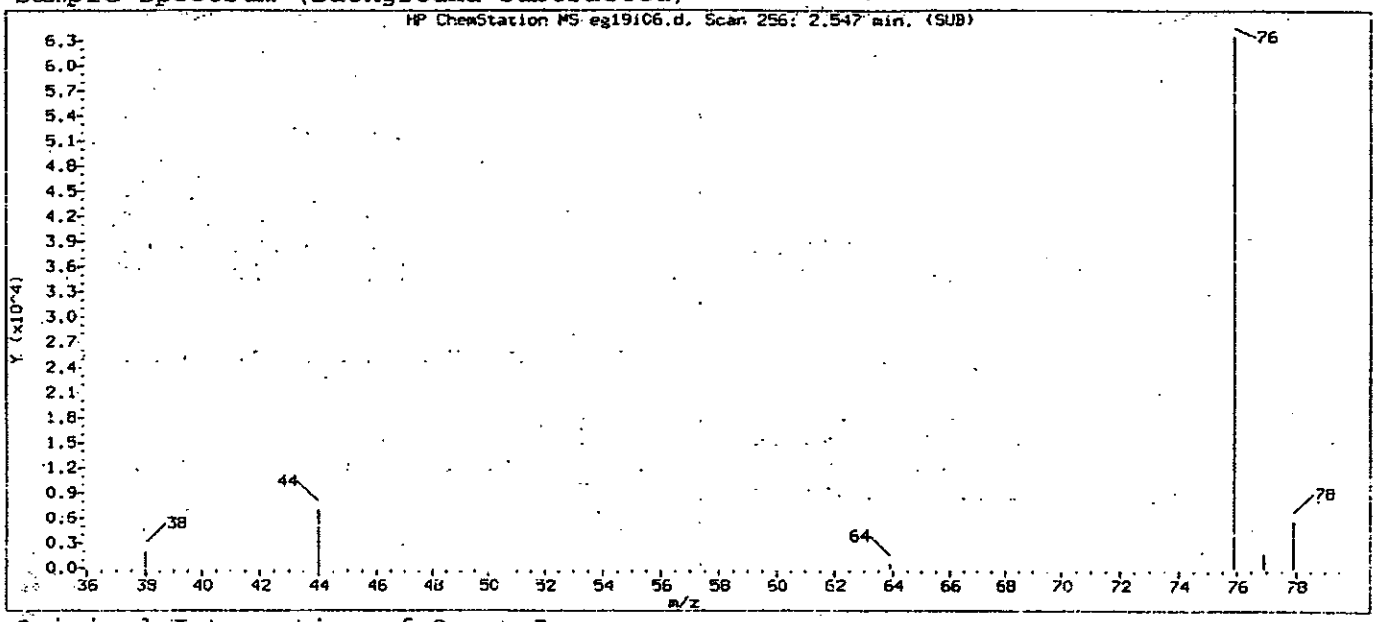
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

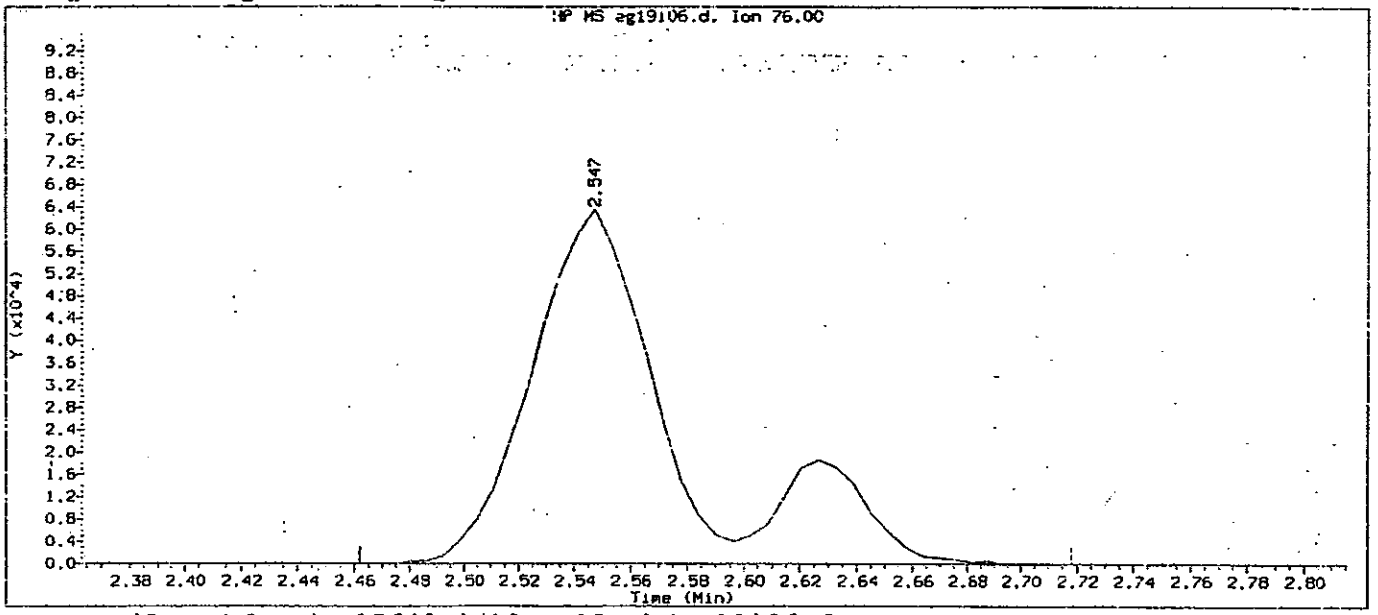
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 8316

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01593

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

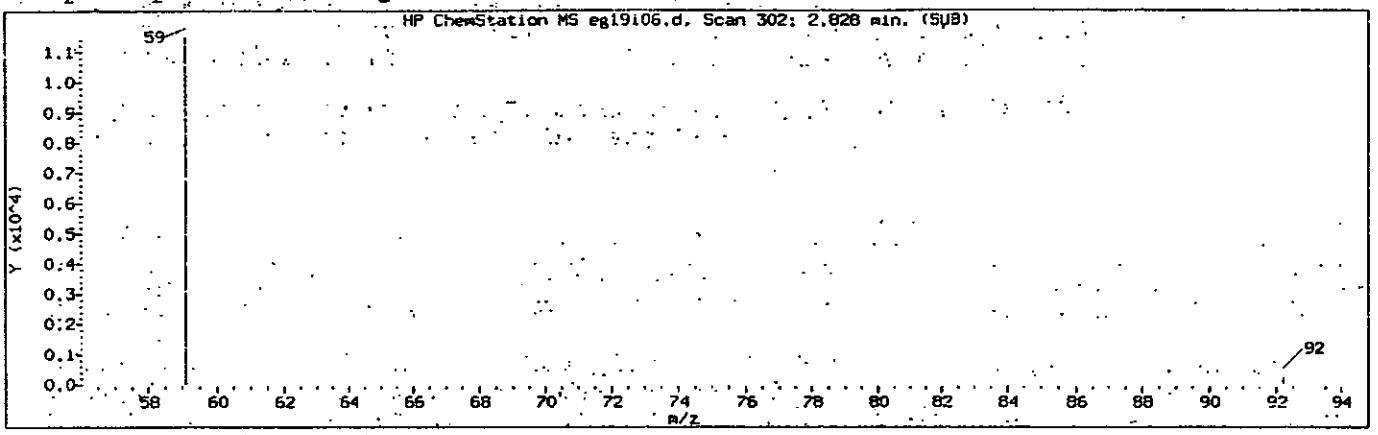
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 21
Compound Name : Carbon Disulfide
Scan Number : 256
Retention Time (minutes): 2.547
Quant Ion : 76.00
Area : 223849
On-column Amount (ng) : 10.6844
Integration start scan : 241 Integration stop scan: 283
Y at integration start : 0 Y at integration end: 0

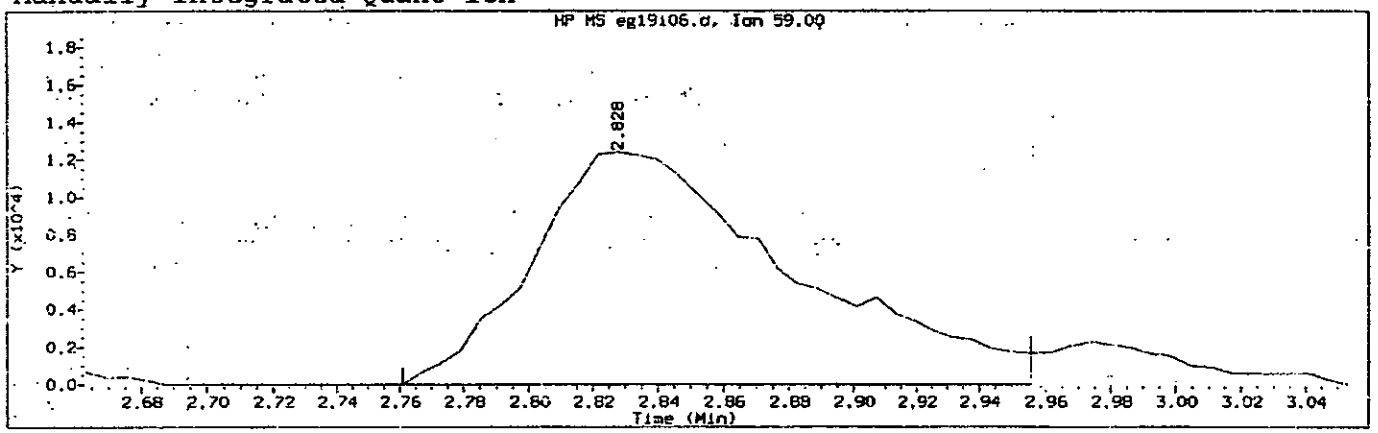
PTL06 0317

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 302
Retention Time (minutes): 2.828
Quant Ion : 59.00
Area (flag) : 69318M
On-Column Amount (ng) : 122.3766
Integration start scan : 290 Integration stop scan: 322
Y at integration start : 0 Y at integration end: 0

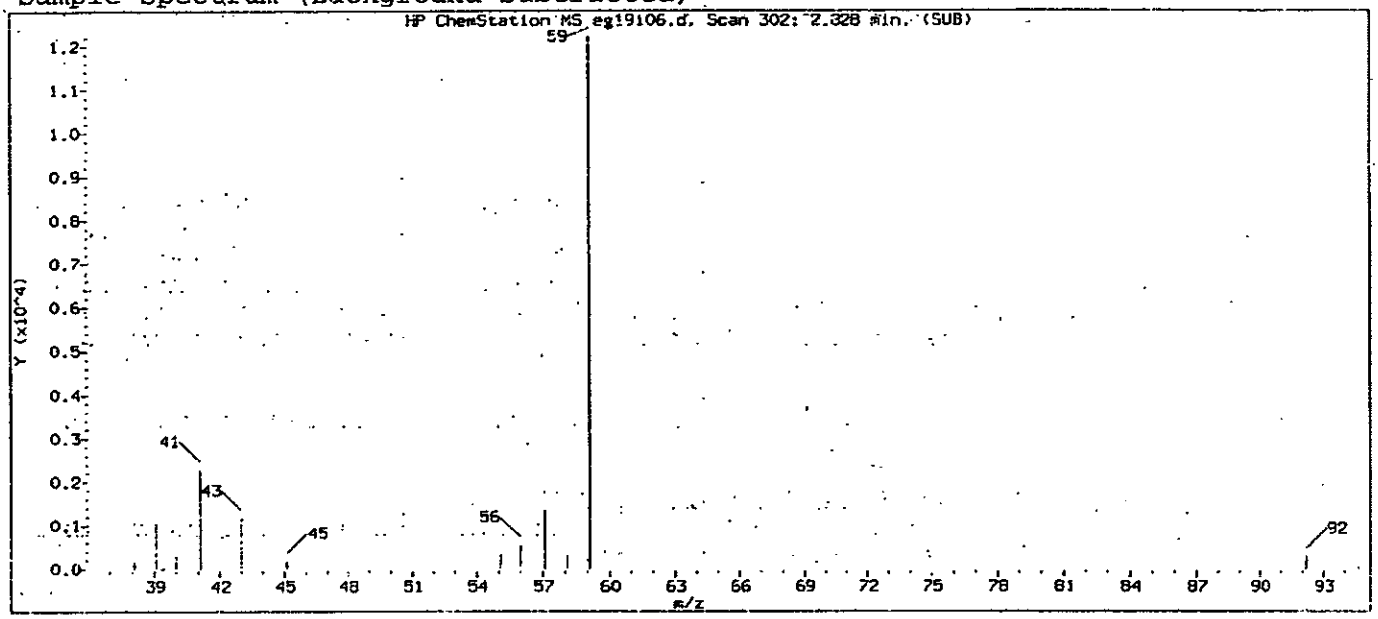
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

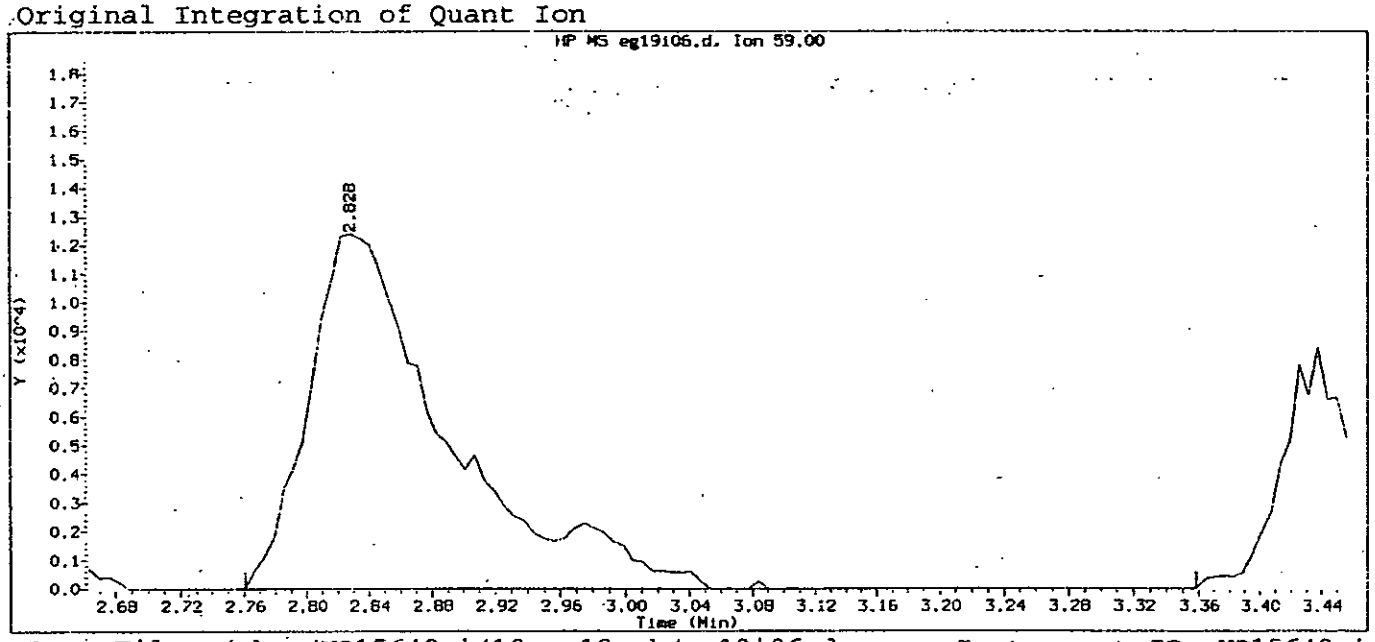
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0316

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

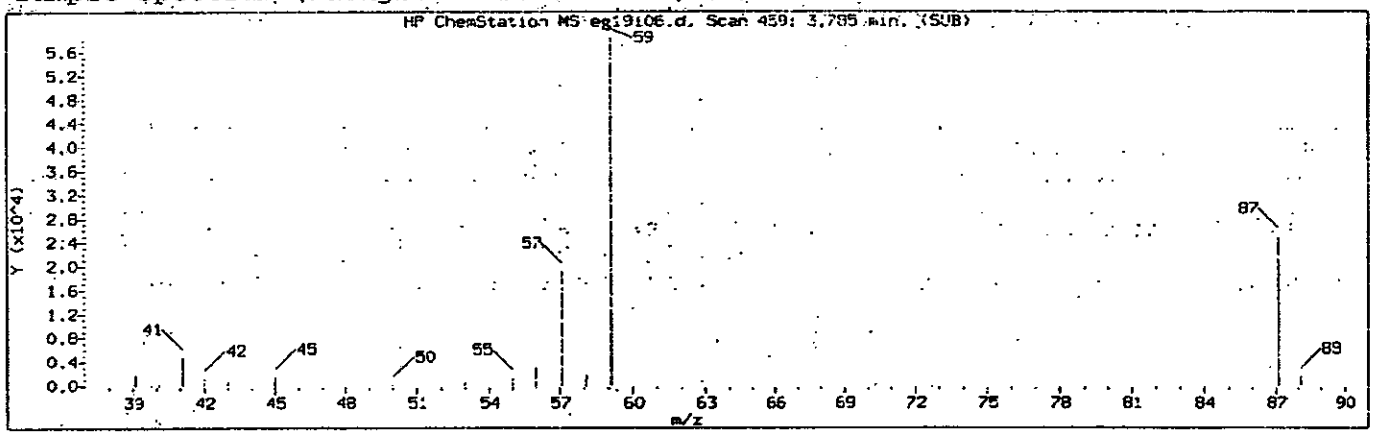
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 302
Retention Time (minutes): 2.828
Quant Ion : 59.00
Area : 76151
On-column Amount (ng) : 102.6001
Integration start scan : 290 Integration stop scan: 388
Y at integration start : 0 Y at integration end: 0

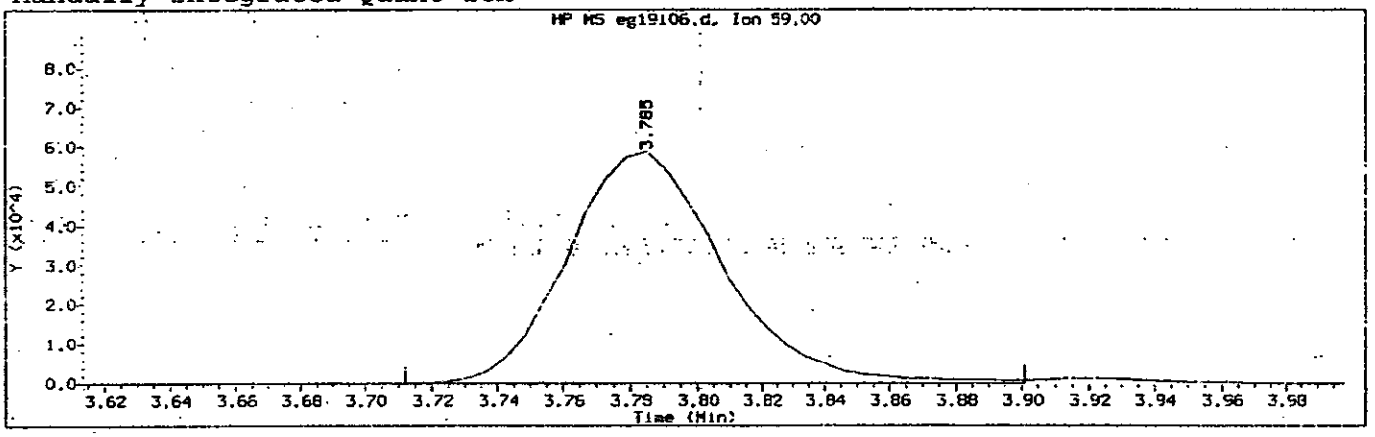
PTL86 8319

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 459
Retention Time (minutes): 3.785
Quant Ion : 59.00
Area (flag) : 190583M
On-Column Amount (ng) : 9.7715
Integration start scan : 446 Integration stop scan: 477
Y at integration start : 0 Y at integration end: 0

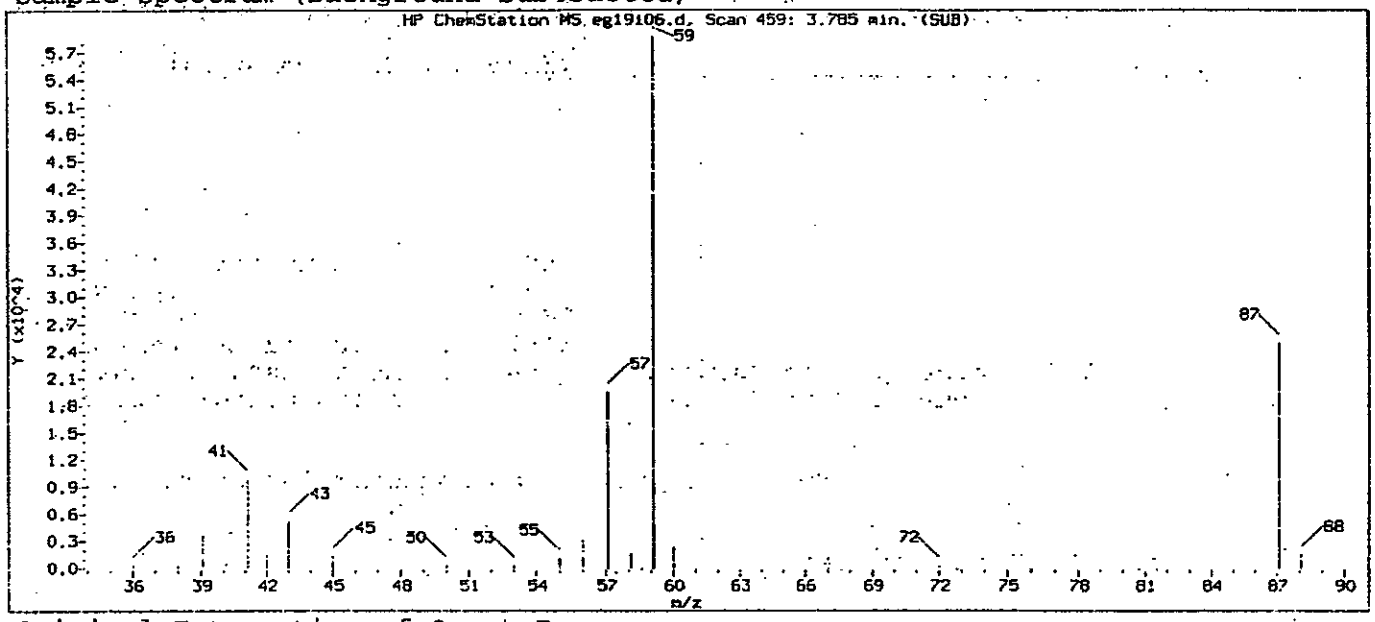
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

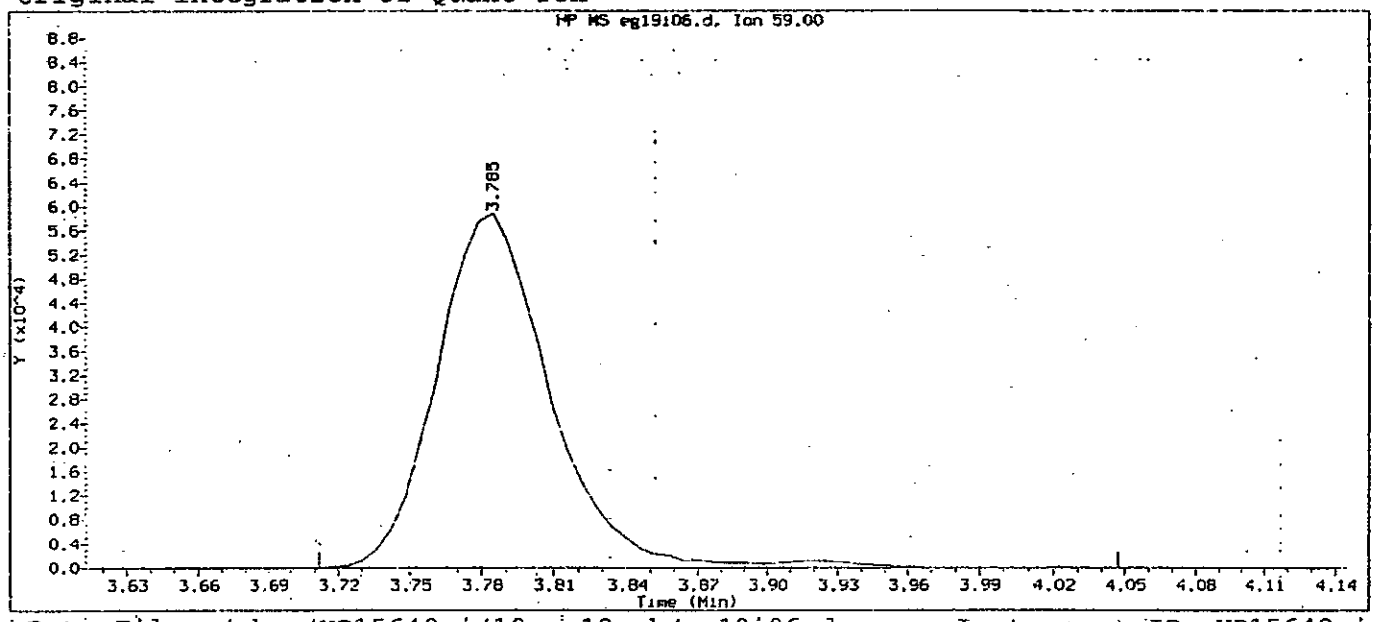
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8328

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 459
Retention Time (minutes): 3.785
Quant Ion : 59.00
Area : 193367
On-column Amount (ng) : 9.6529
Integration start scan : 446 Integration stop scan: 501
Y at integration start : 0 Y at integration end: 0

PTL06 0321

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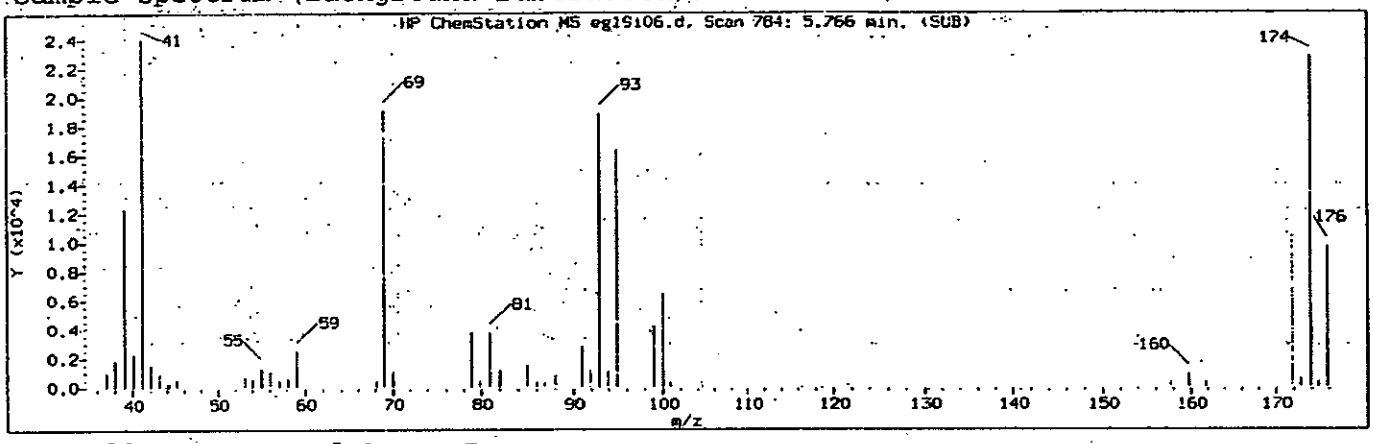
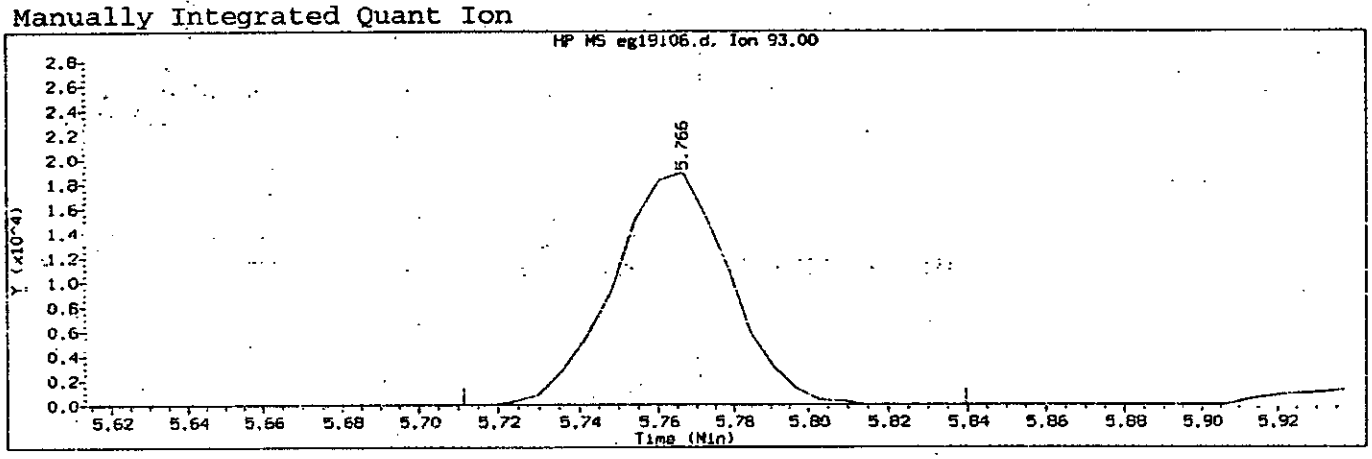
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 78
Compound Name : Dibromomethane
Scan Number : 784
Retention Time (minutes): 5.766
Quant Ion : 93.00
Area (flag) : 39664M
On-Column Amount (ng) : 9.6297
Integration start scan : 774 Integration stop scan: 795
Y at integration start : 0 Y at integration end: 0

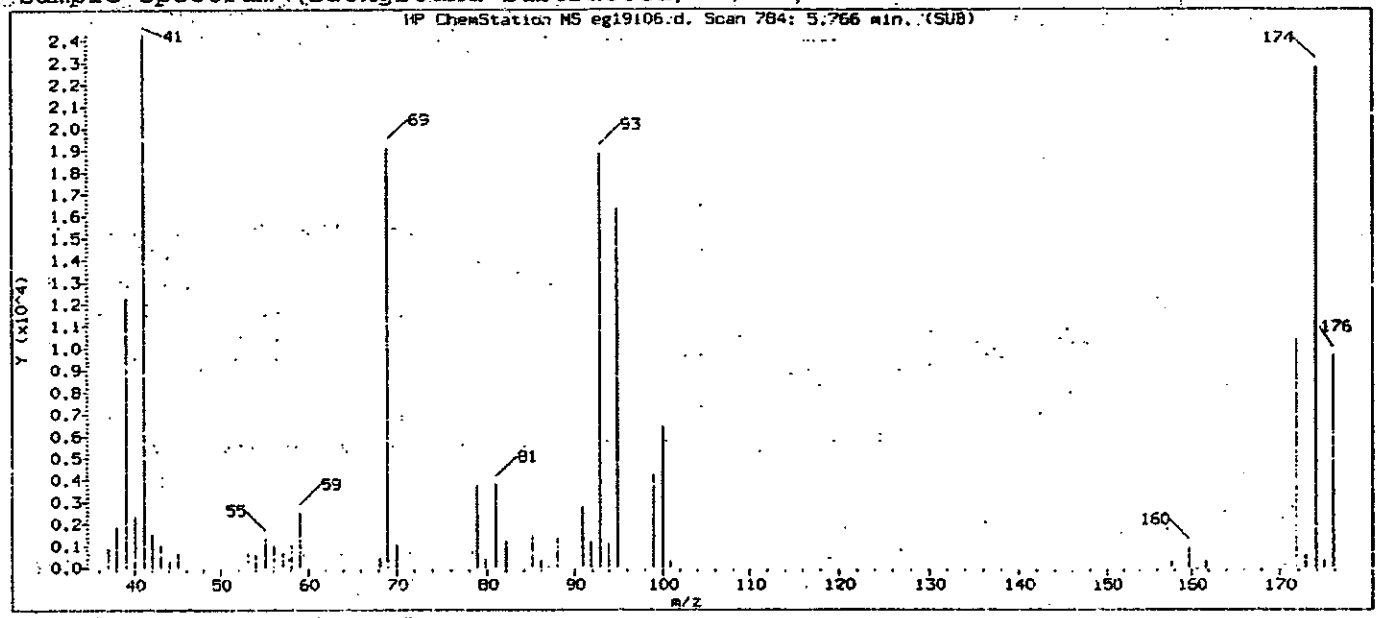
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

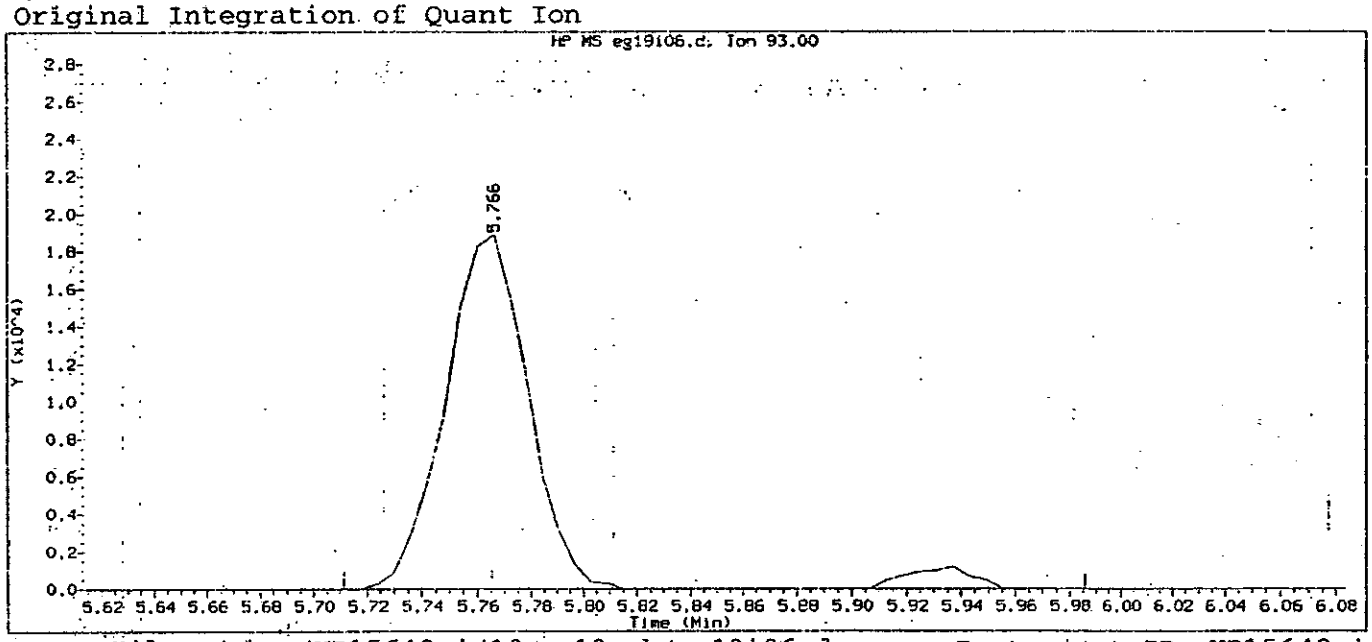
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8322

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

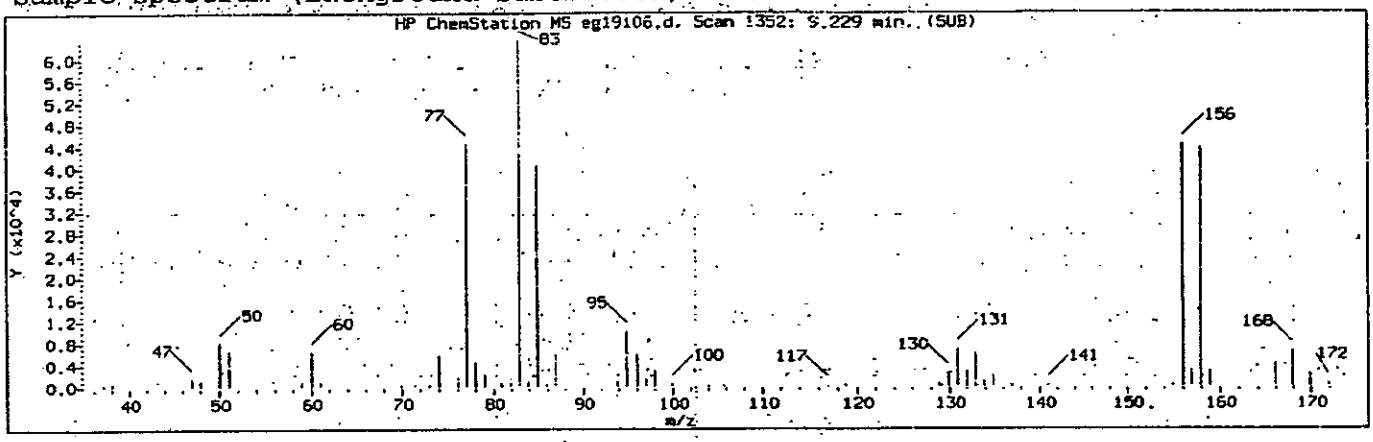
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 78
Compound Name : Dibromomethane
Scan Number : 784
Retention Time (minutes): 5.766
Quant Ion : 93.00
Area : 41630
On-column Amount (ng) : 9.8556
Integration start scan : 774 Integration stop scan: 819
Y at integration start : 0 Y at integration end: 0

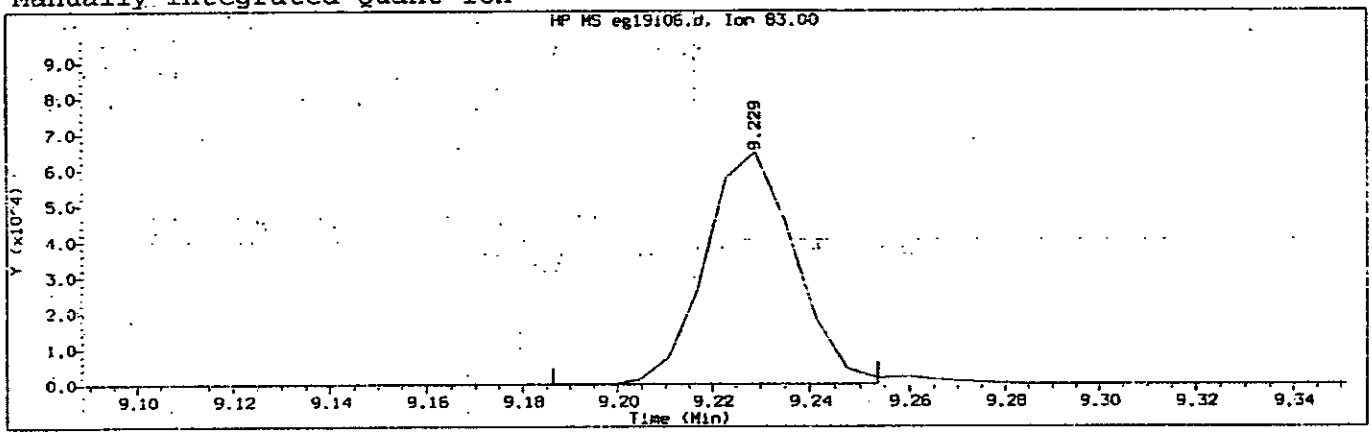
PTL86 8323

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

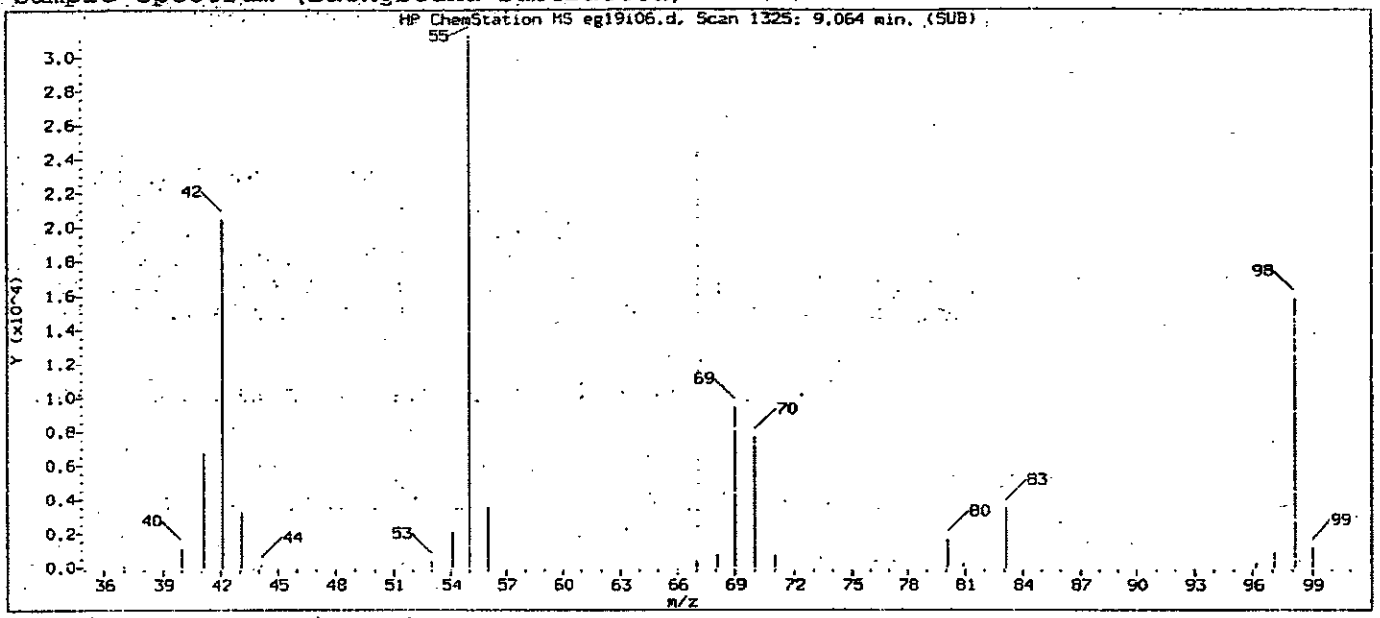
Compound Number	: 119		
Compound Name	: 1,1,2,2-Tetrachloroethane		
Scan Number	: 1352		
Retention Time (minutes)	: 9.229		
Quant Ion	: 83.00		
Area (flag)	: 83049M		
On-Column Amount (ng)	: 9.4955		
Integration start scan	: 1344	Integration stop scan:	1355
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

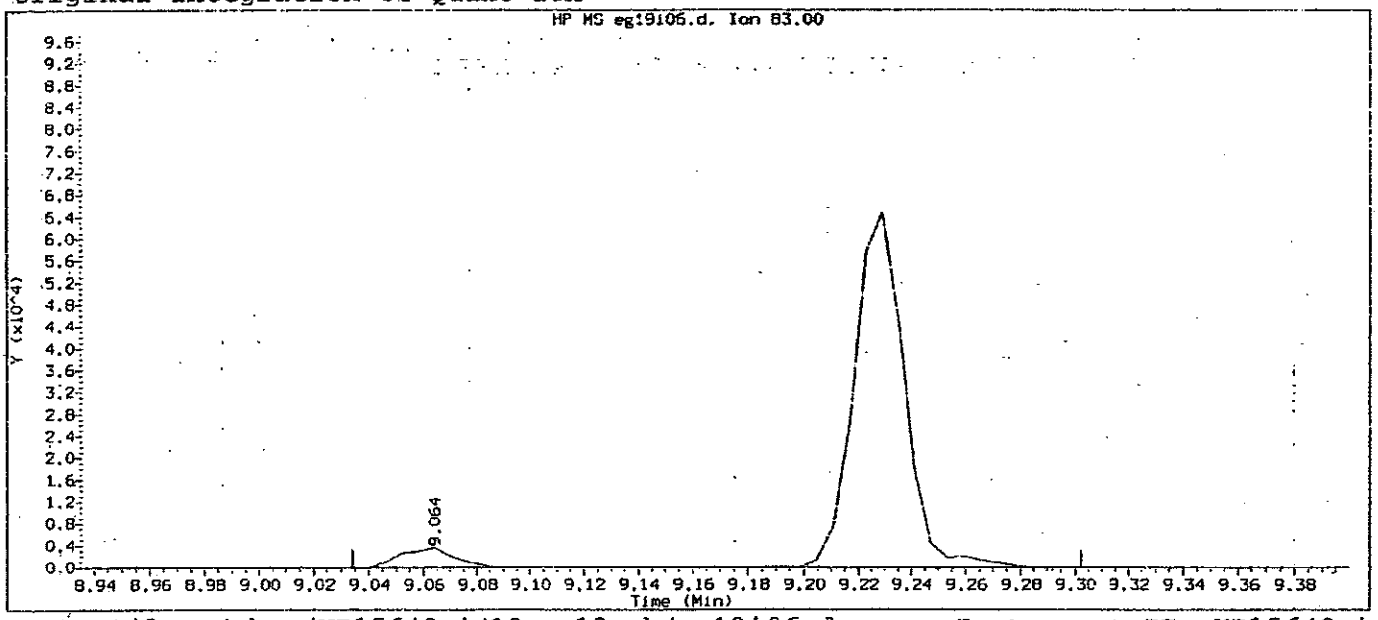
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [illegible] 8/20/10 PTL06 0324

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 119
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1325
Retention Time (minutes): 9.064
Quant Ion : 83.00
Area : 89635
On-column Amount (ng) : 9.9643
Integration start scan : 1319 Integration stop scan: 1363
Y at integration start : 0 Y at integration end: 0

PTL86 0325

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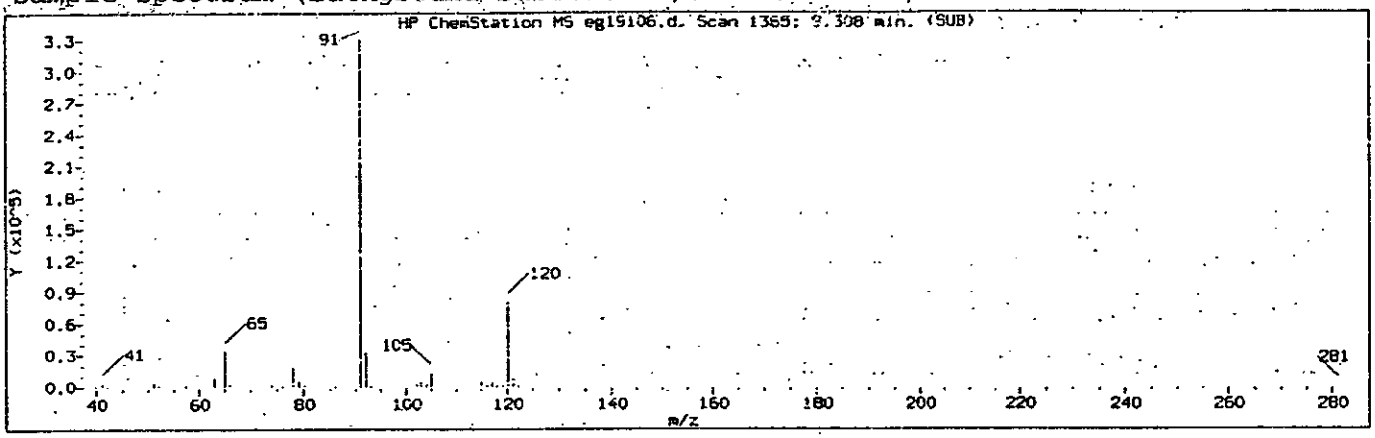
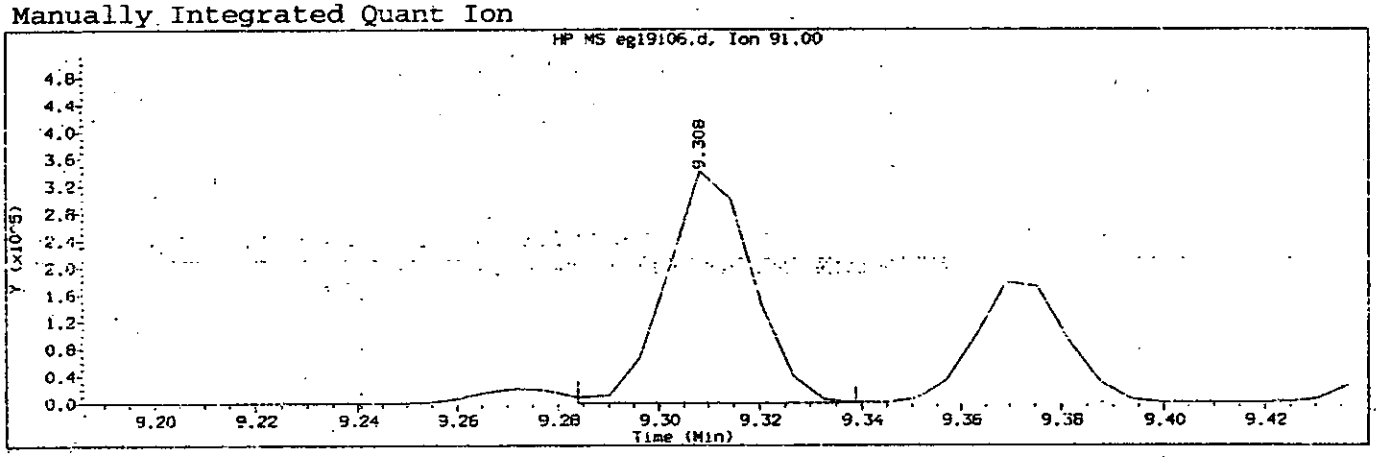
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 122
Compound Name	: n-Propylbenzene
Scan Number	: 1365
Retention Time (minutes)	: 9.308
Quant Ion	: 91.00
Area (flag)	: 408424M
On-Column Amount (ng)	: 9.9218
Integration start scan	: 1360 Integration stop scan: 1369
Y at integration start	: 0 Y at integration end: 0

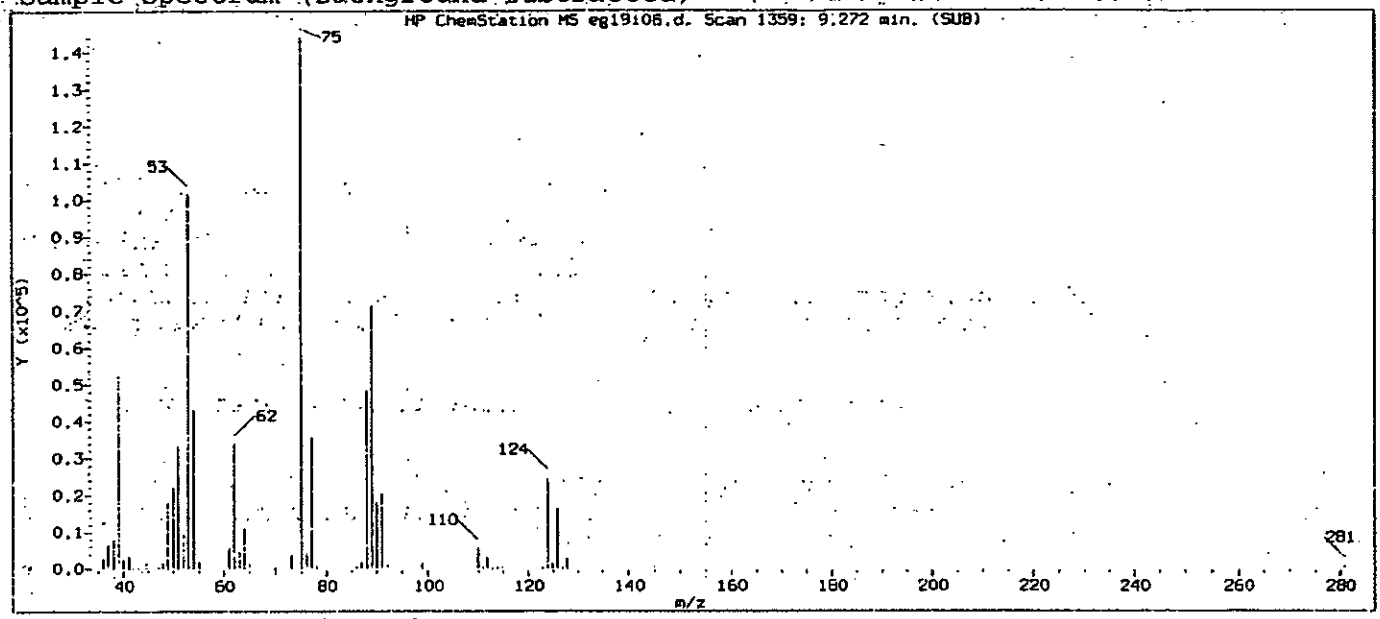
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

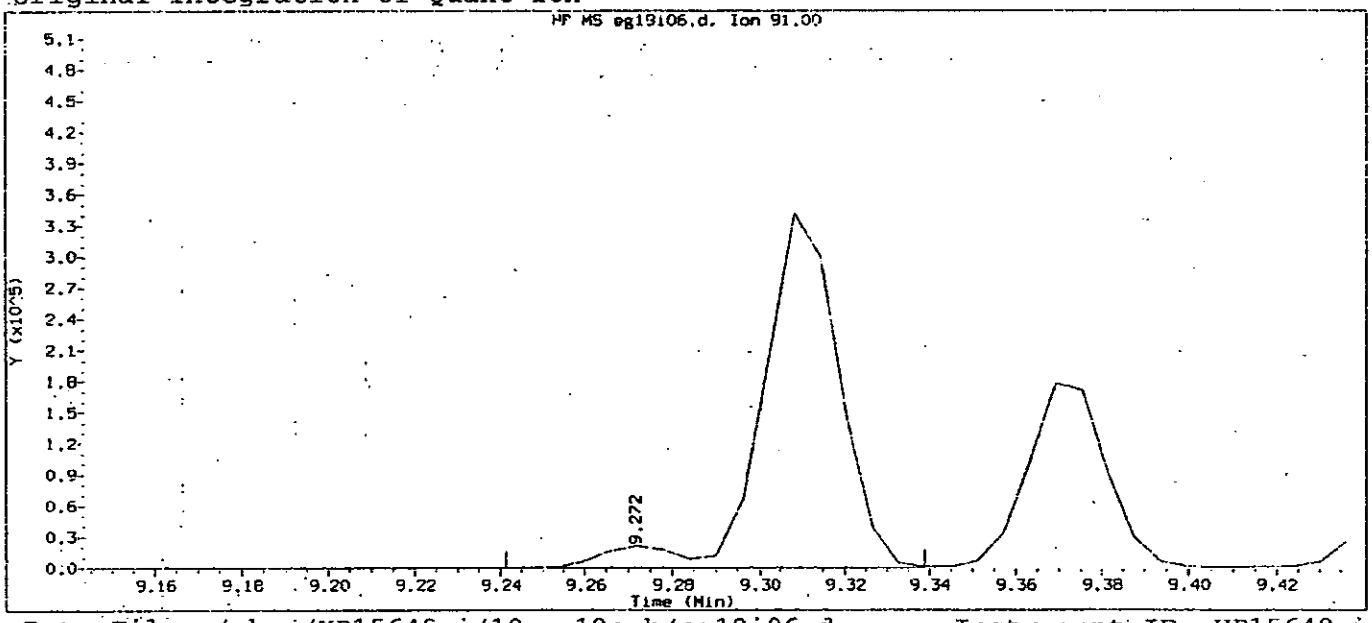
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0326

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

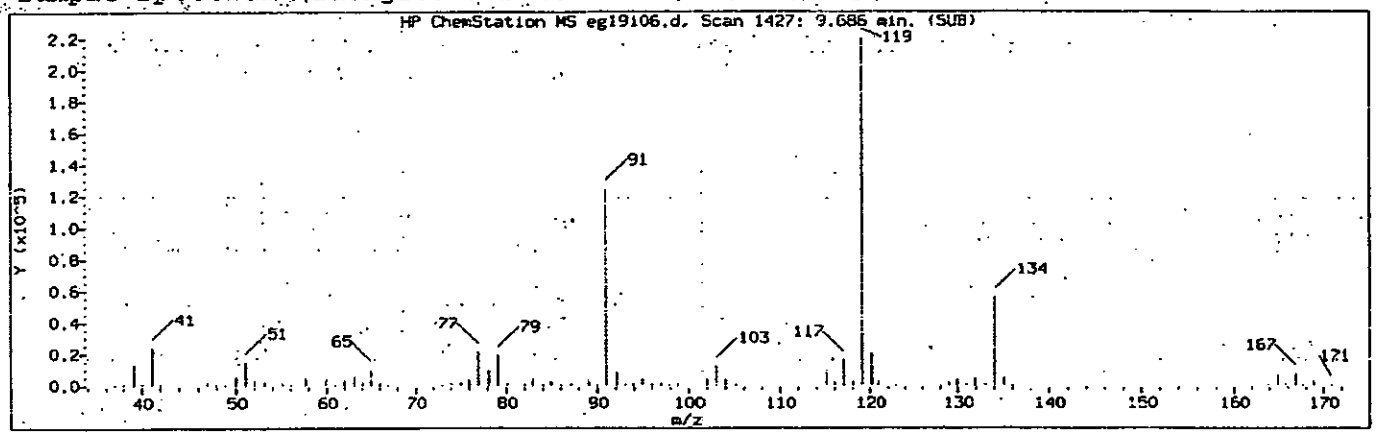
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 122		
Compound Name	: n-Propylbenzene		
Scan Number	: 1359		
Retention Time (minutes)	: 9.272		
Quant Ion	: 91.00		
Area	: 430975		
On-column Amount (ng)	: 8.2051		
Integration start scan	: 1353	Integration stop scan:	1369
Y at integration start	: 0	Y at integration end:	0

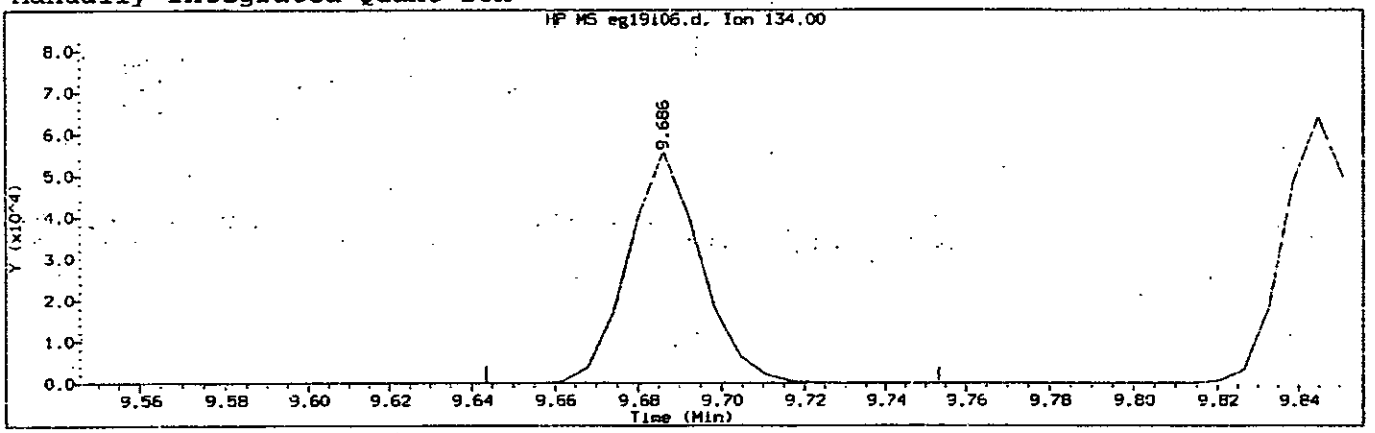
PTL06 0327

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 127		
Compound Name	: tert-Butylbenzene		
Scan Number	: 1427		
Retention Time (minutes)	: 9.686		
Quant Ion	: 134.00		
Area (flag)	: 67686M		
On-Column Amount (ng)	: 9.6777		
Integration start scan	: 1419	Integration stop scan	: 1437
Y at integration start	: 0	Y at integration end	: 0

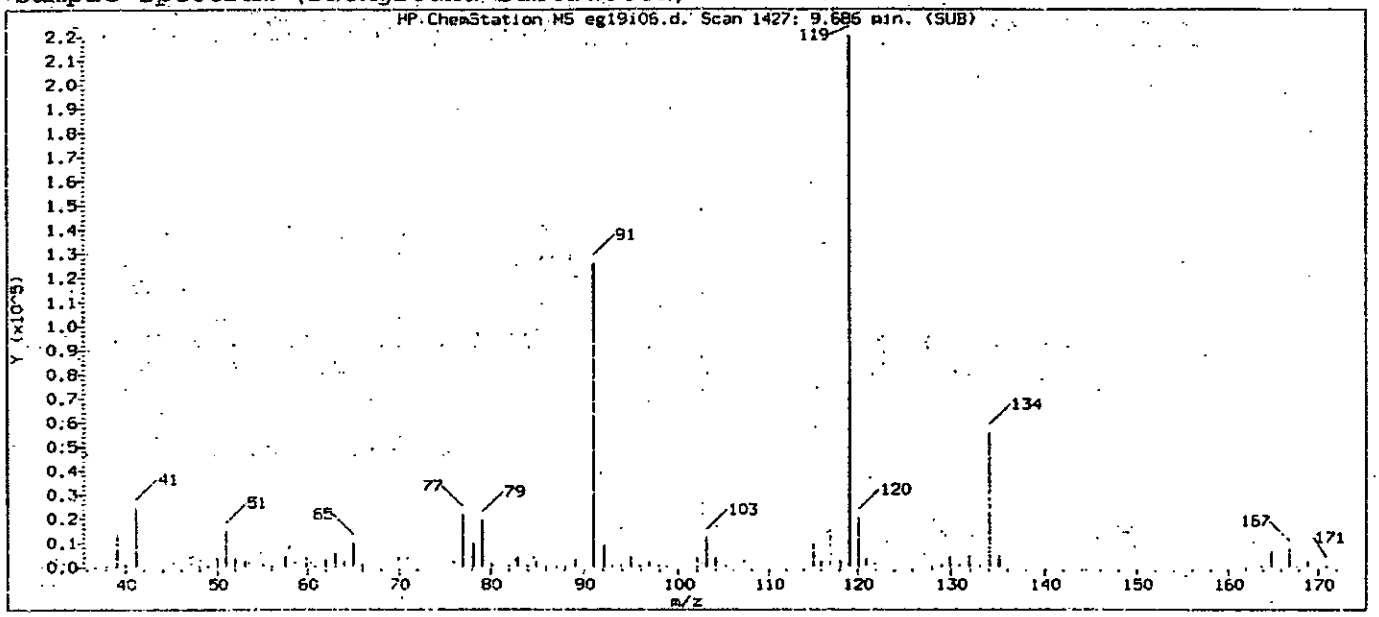
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

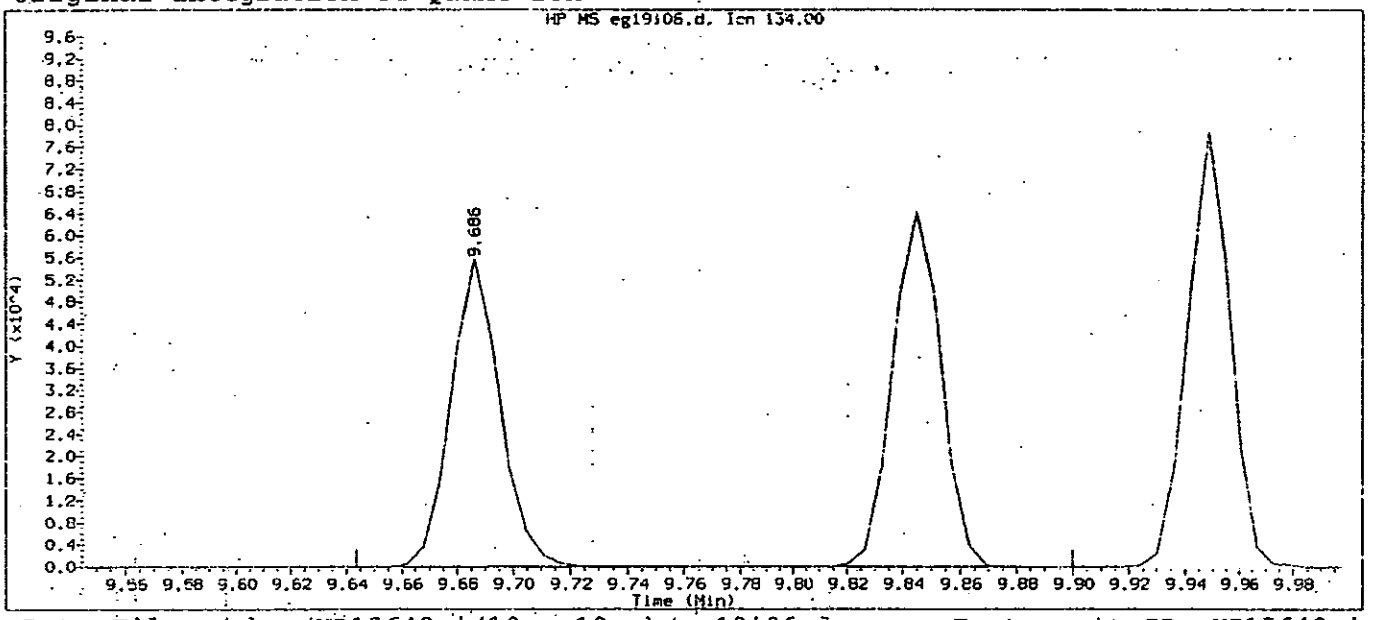
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0328

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

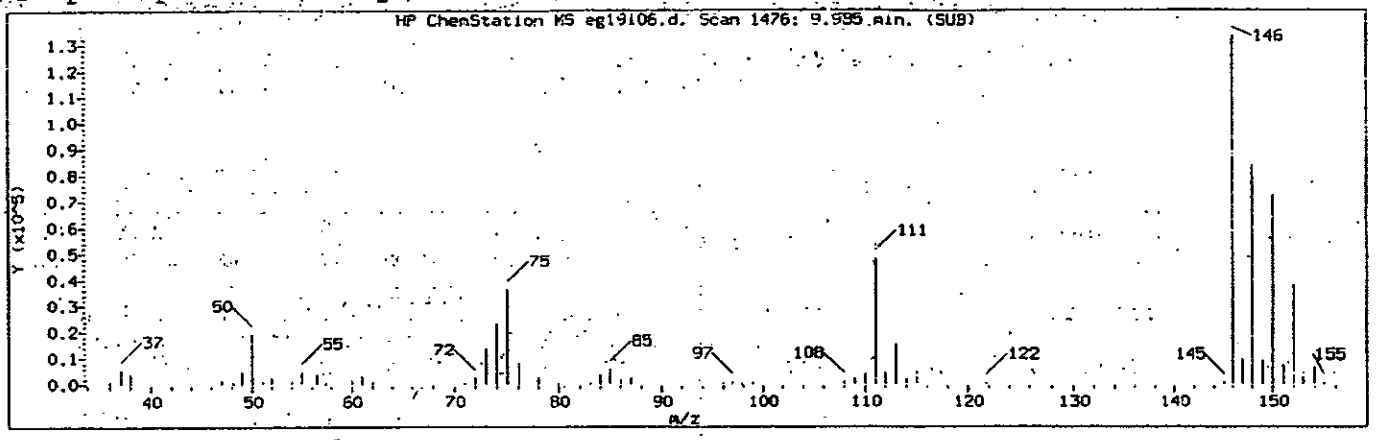
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 127
Compound Name : tert-Butylbenzene
Scan Number : 1427
Retention Time (minutes): 9.686
Quant Ion : 134.00
Area : 143584
On-column Amount (ng) : 10.7156
Integration start scan : 1419 Integration stop scan: 1461
Y at integration start : 0 Y at integration end: 0

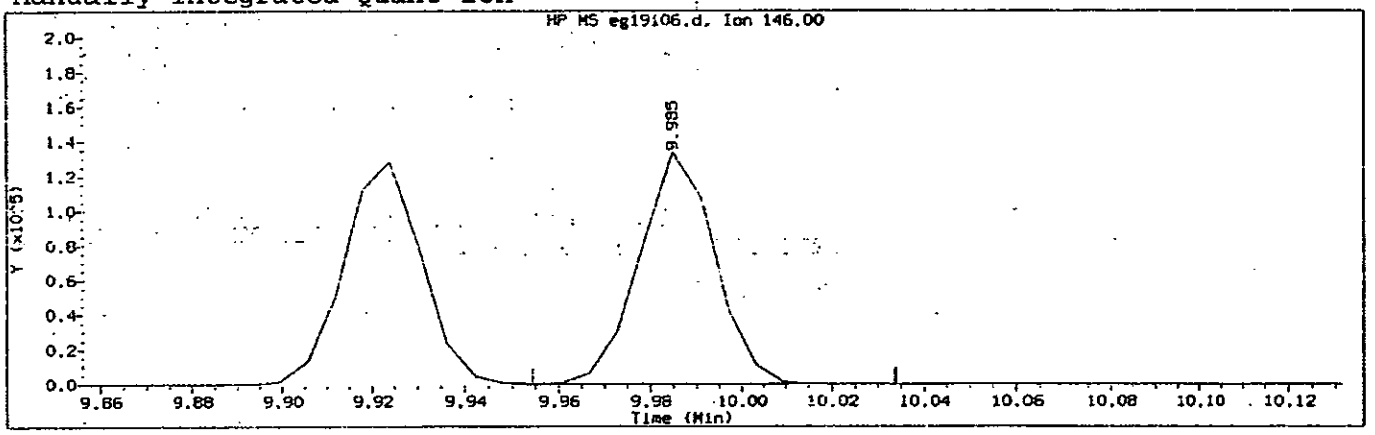
PTL06 0329

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 136
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1476
Retention Time (minutes): 9.985
Quant Ion : 146.00
Area (flag) : 152847M
On-Column Amount (ng) : 9.7134
Integration start scan : 1470 Integration stop scan: 1483
Y at integration start : 0 Y at integration end: 0

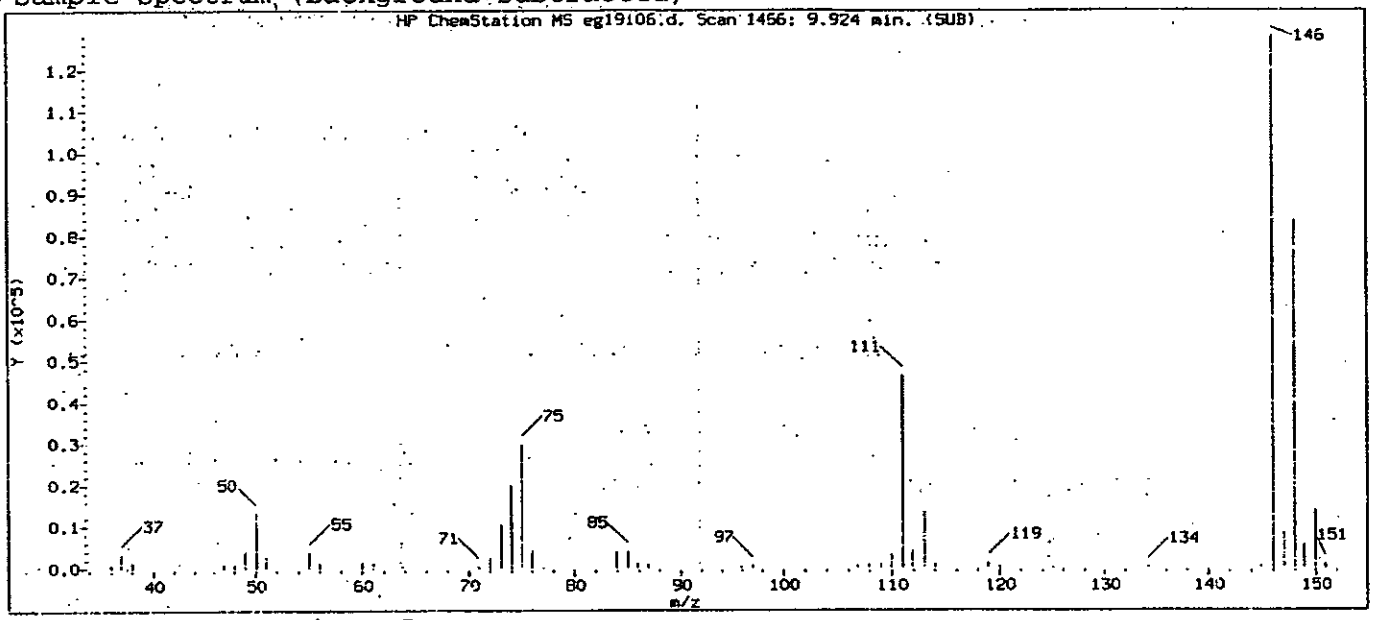
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson. on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

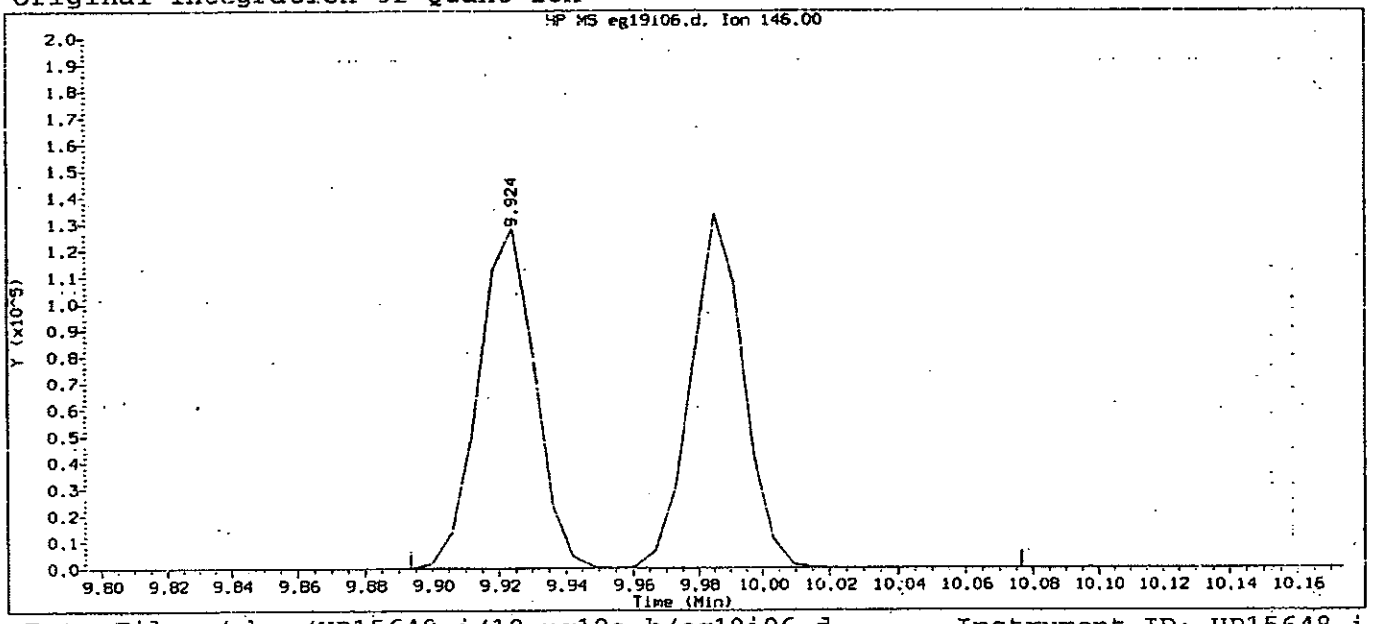
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0338

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

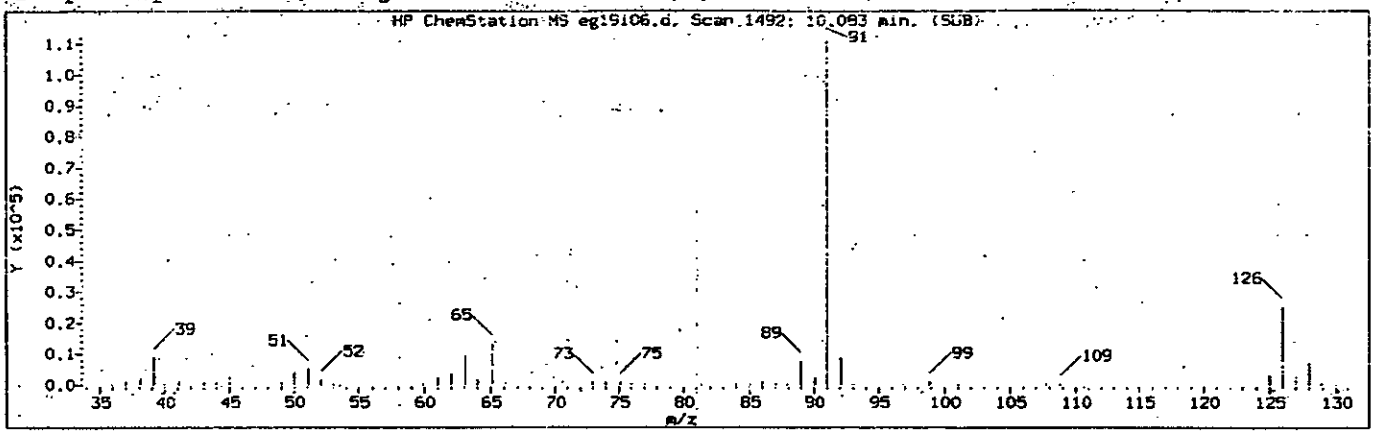
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 136
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1466
Retention Time (minutes): 9.924
Quant Ion : 146.00
Area : 304637
On-column Amount (ng) : 16.1378
Integration start scan : 1460 Integration stop scan: 1490
Y at integration start : 0 Y at integration end: 0

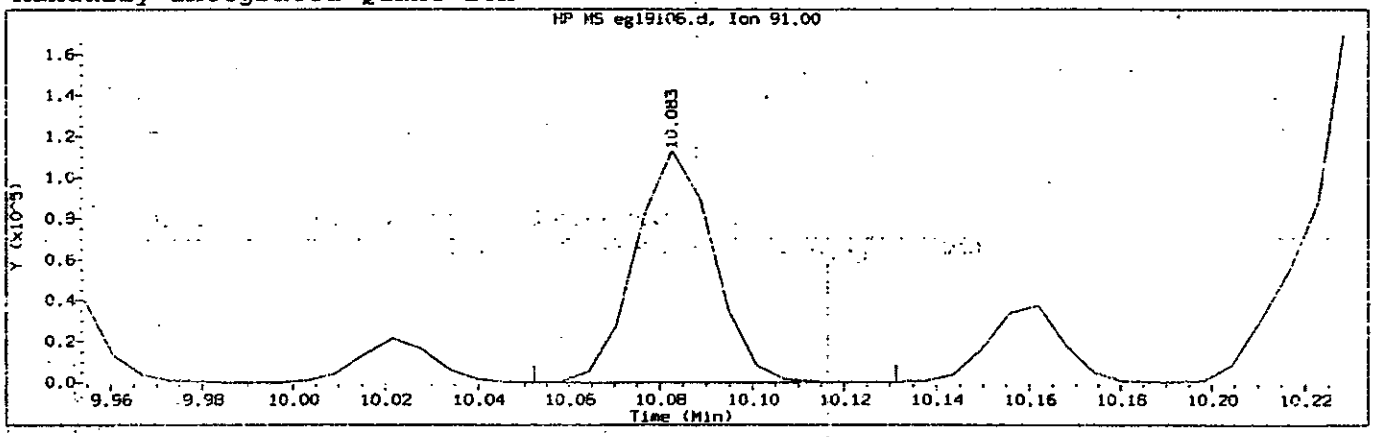
PTL86 8331

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

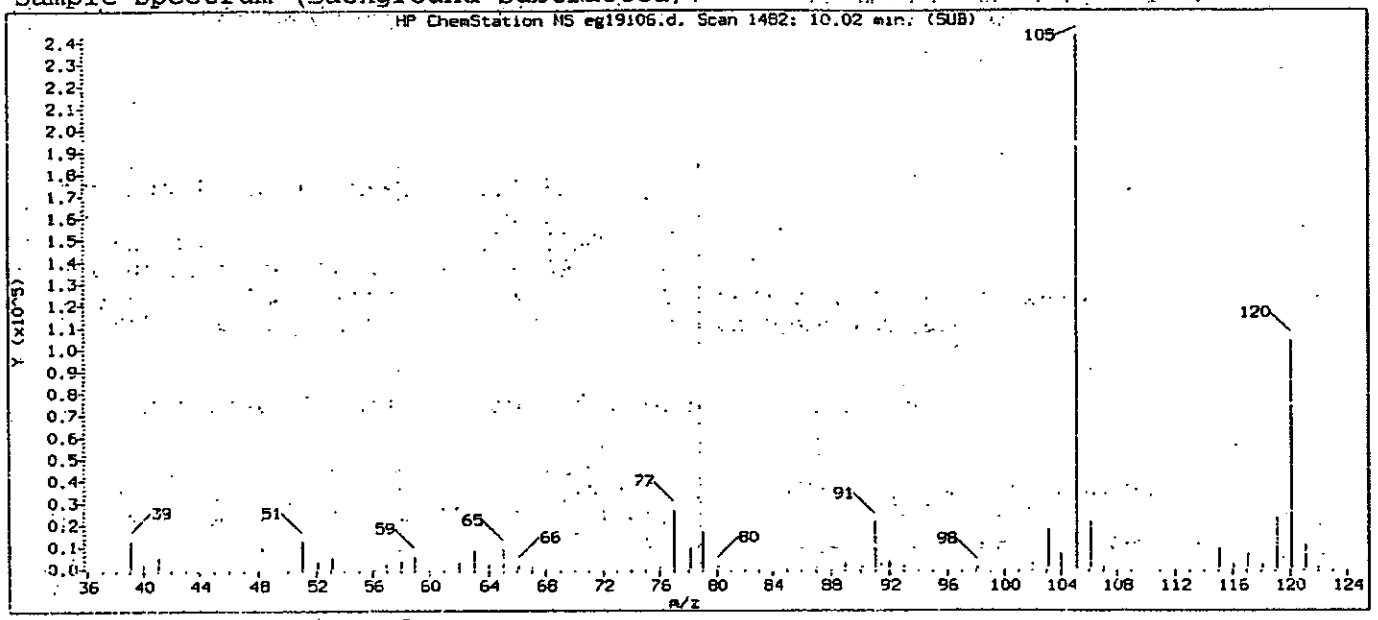
Compound Number : 138
Compound Name : Benzyl Chloride
Scan Number : 1492
Retention Time (minutes): 10.083
Quant Ion : 91.00
Area (flag) : 133107MA
On-Column Amount (ng) : 9.6059
Integration start scan : 1486 Integration stop scan: 1499
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

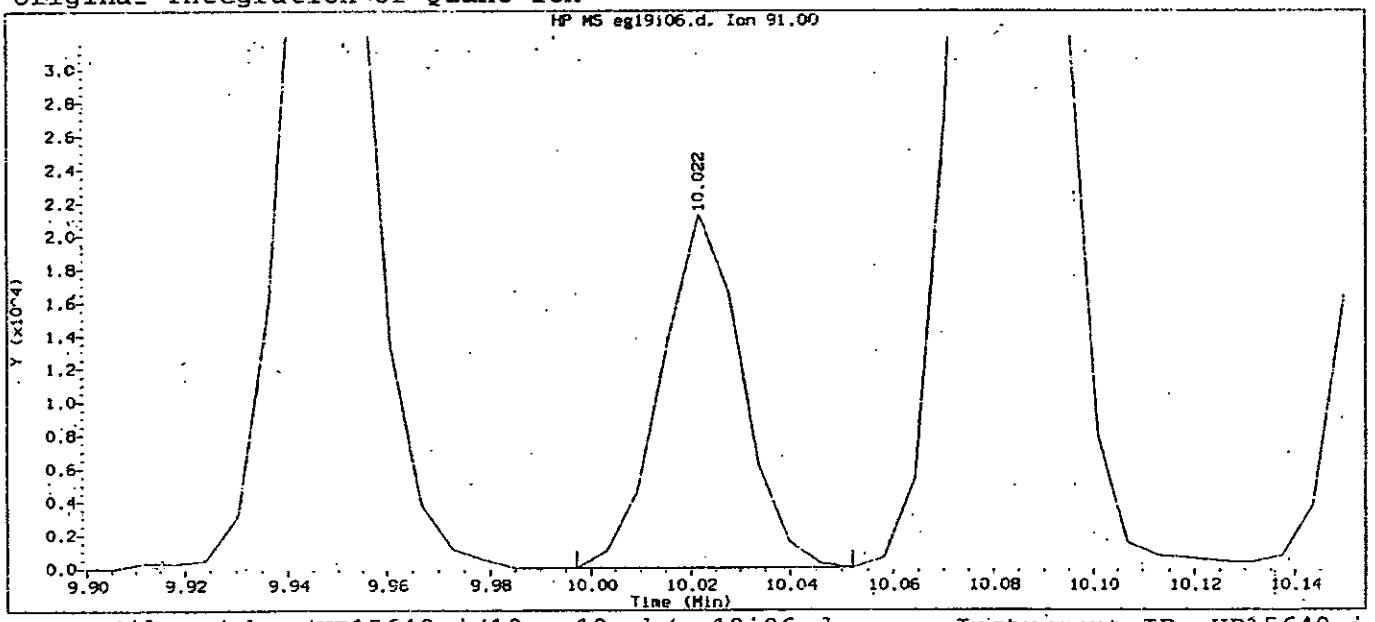
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: _____ 8332

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 138
Compound Name : Benzyl Chloride
Scan Number : 1482
Retention Time (minutes): 10.022
Quant Ion : 91.00
Area : 23911
On-column Amount (ng) : 1.7992
Integration start scan : 1477 Integration stop scan: 1486
Y at integration start : 0 Y at integration end: 0

PTL86 8333

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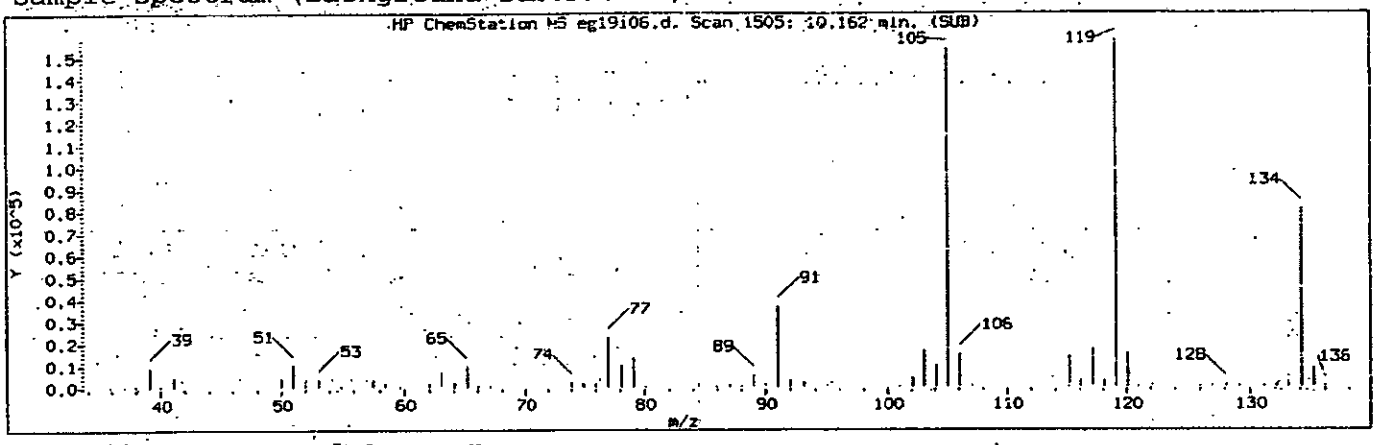
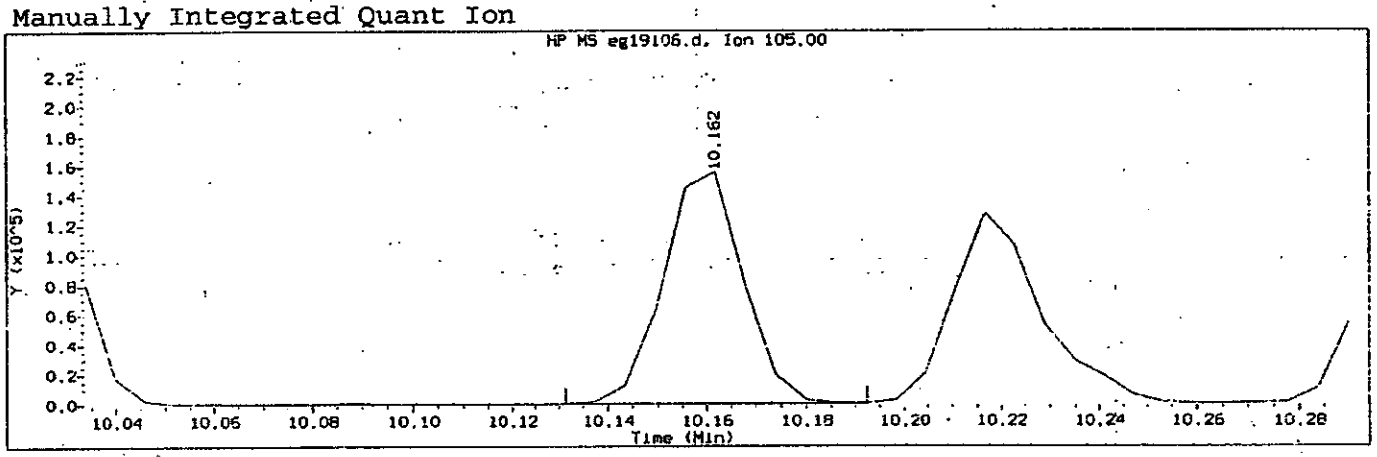
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 139
Compound Name : 1,3-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area (flag) : 175741M
On-Column Amount (ng) : 9.4872
Integration start scan : 1499 Integration stop scan: 1509
Y at integration start : 0 Y at integration end: 0

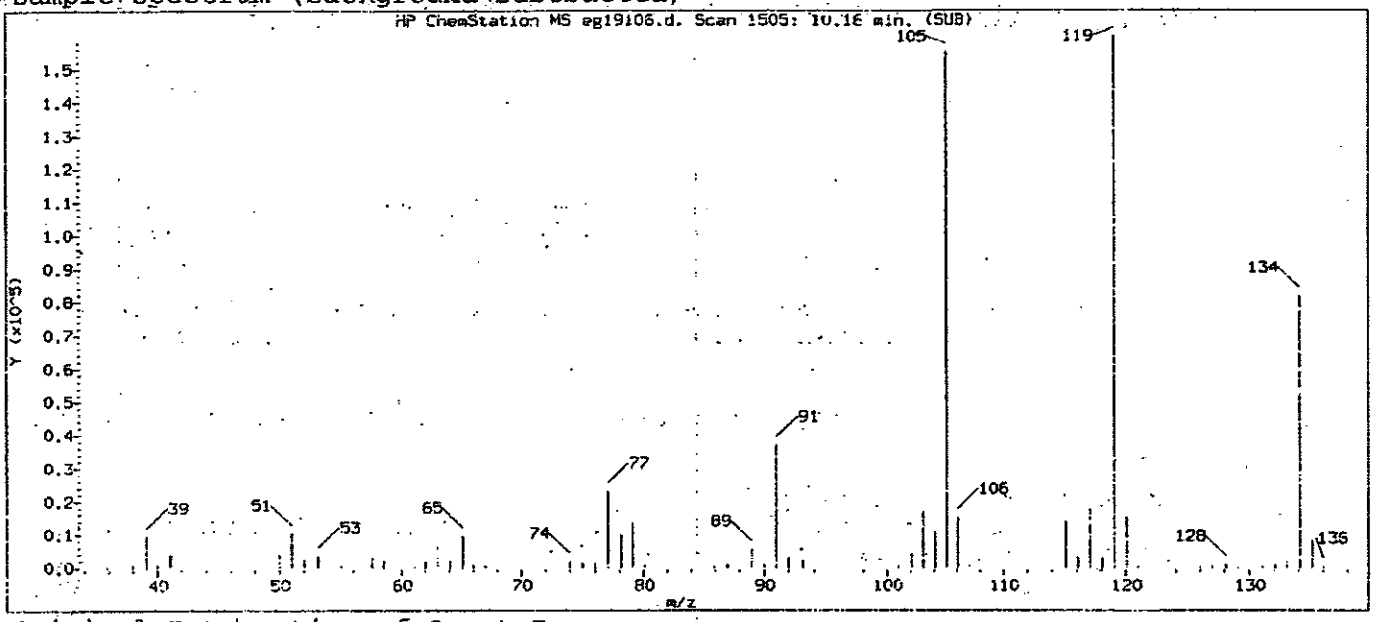
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

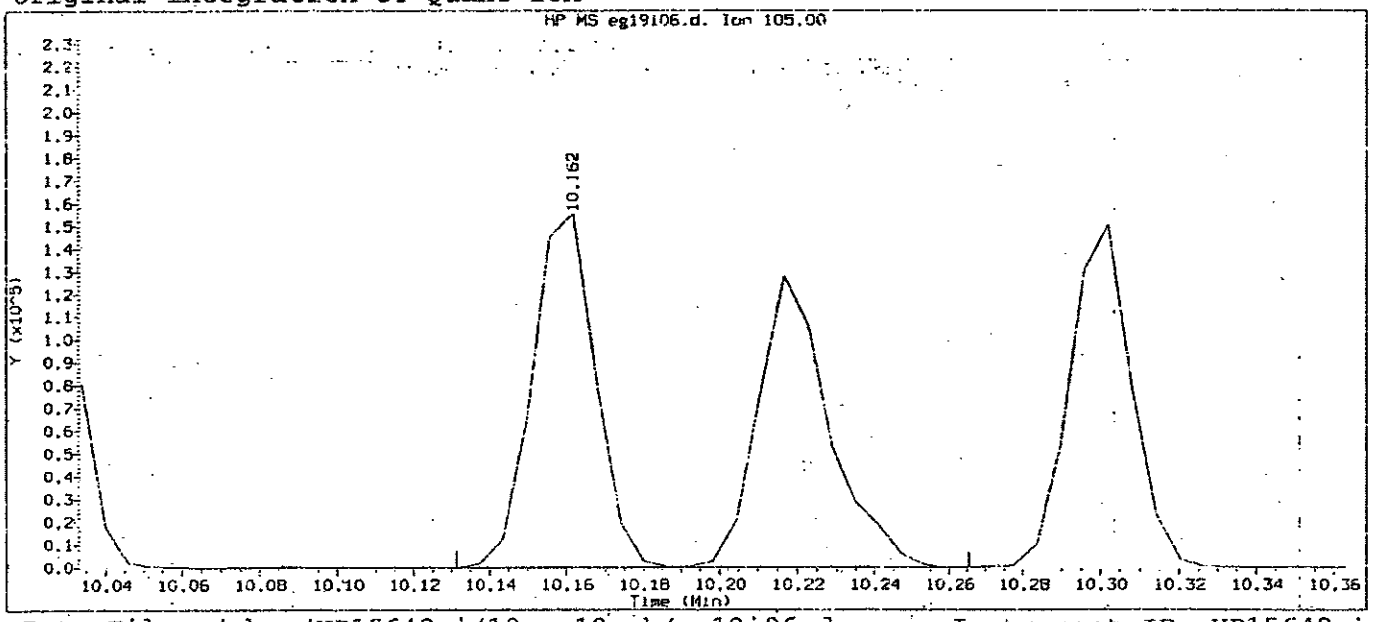
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0334

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 139
Compound Name : 1,3-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 337267
On-column Amount (ng) : 13.1419
Integration start scan : 1499 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

PTL86 0335

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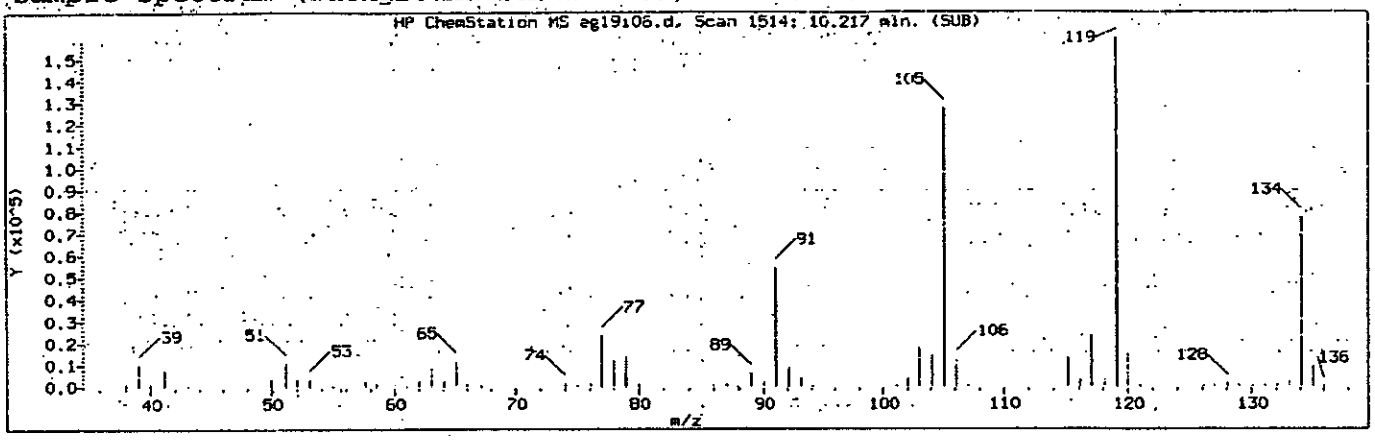
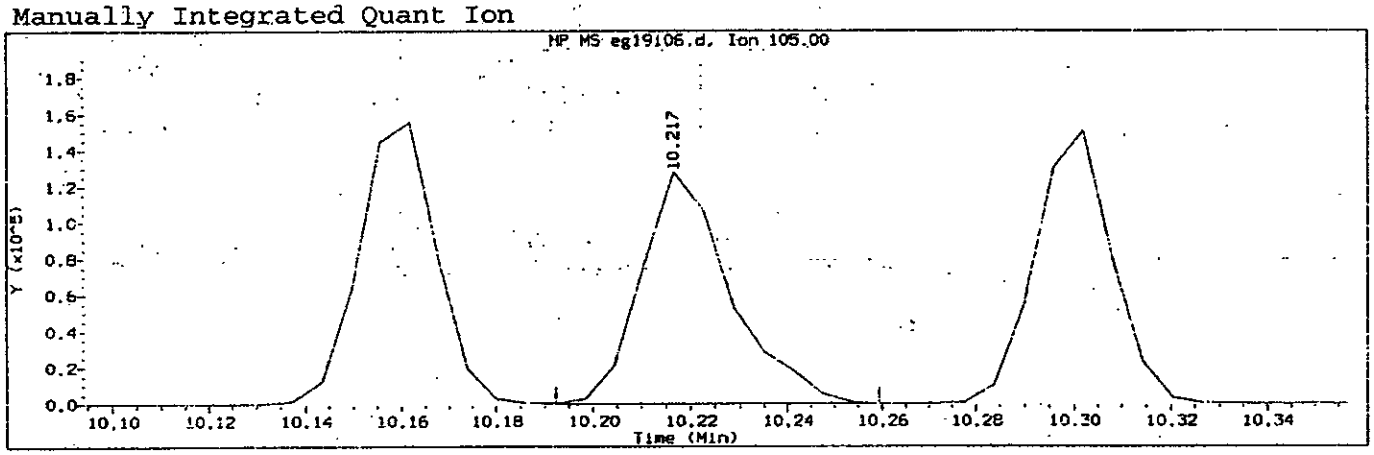
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

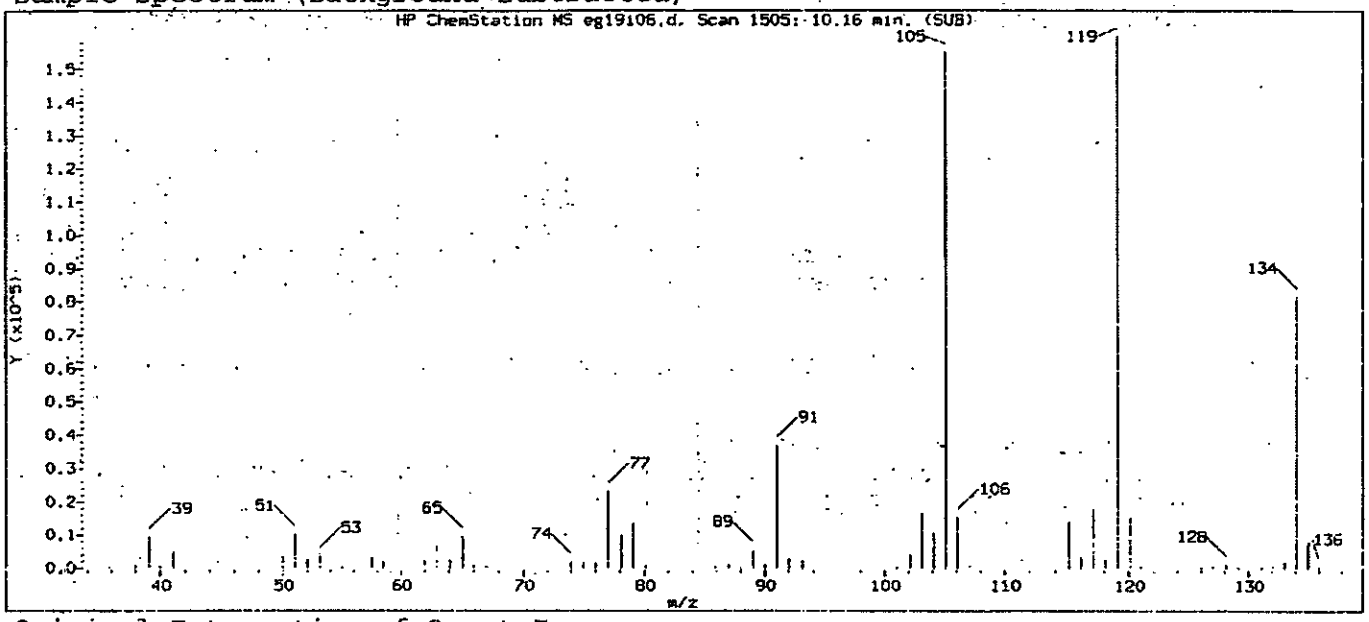
Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1514
Retention Time (minutes): 10.217
Quant Ion : 105.00
Area (flag) : 161683M
On-Column Amount (ng) : 9.3861
Integration start scan : 1509 Integration stop scan: 1520
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

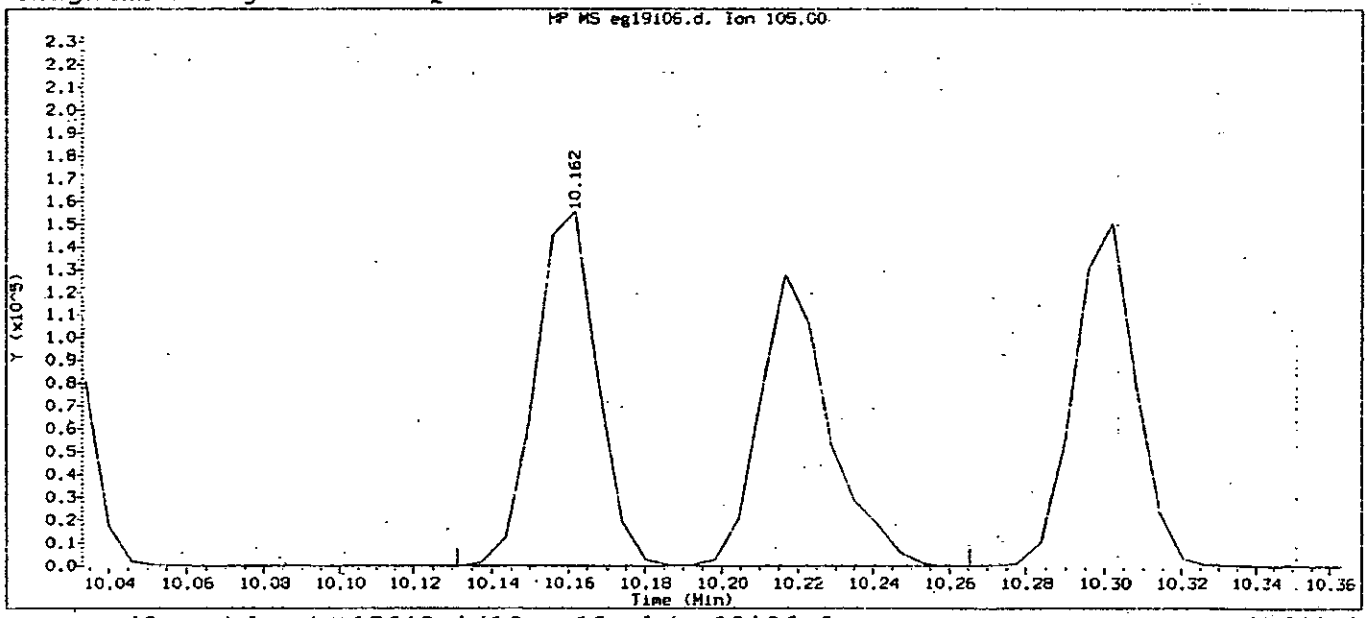
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [signature] 8/20/10 PTL86 83-6

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 337267
On-column Amount (ng) : 13.4358
Integration start scan : 1499 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

PTL86 8337

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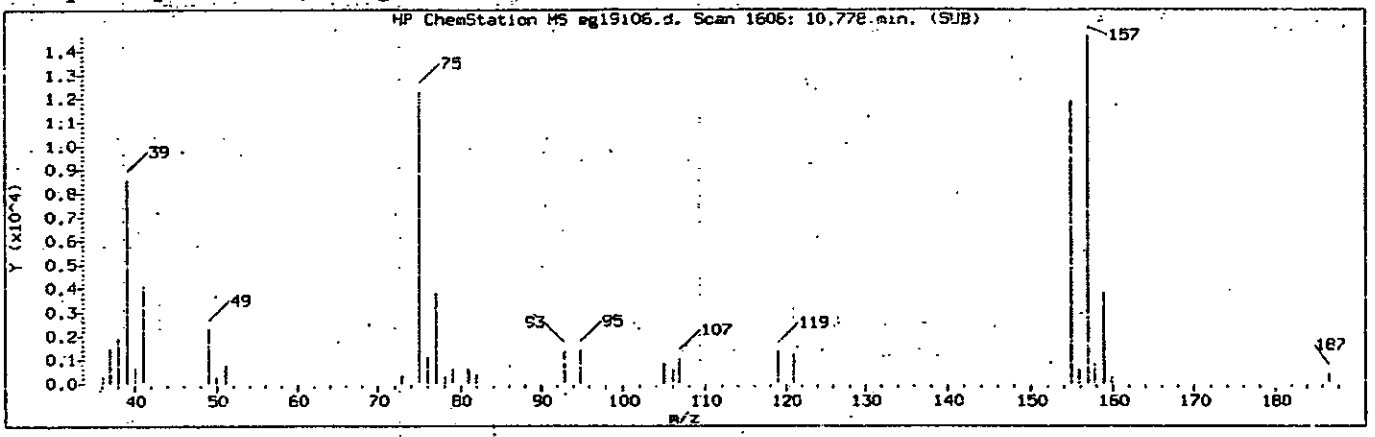
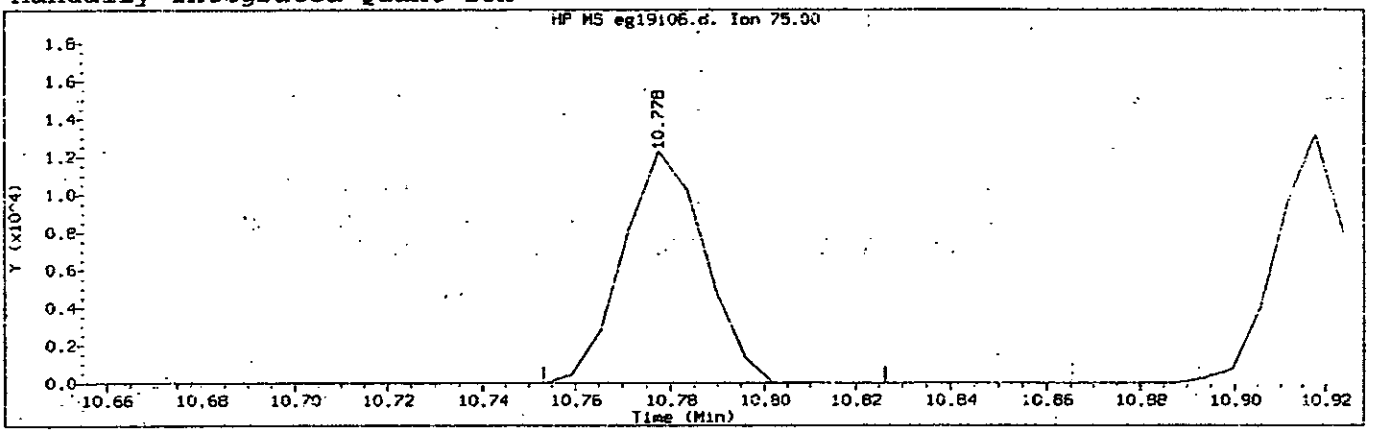
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area (flag) : 14690M
On-Column Amount (ng) : 9.4489
Integration start scan : 1601 Integration stop scan: 1613
Y at integration start : 0 Y at integration end: 0

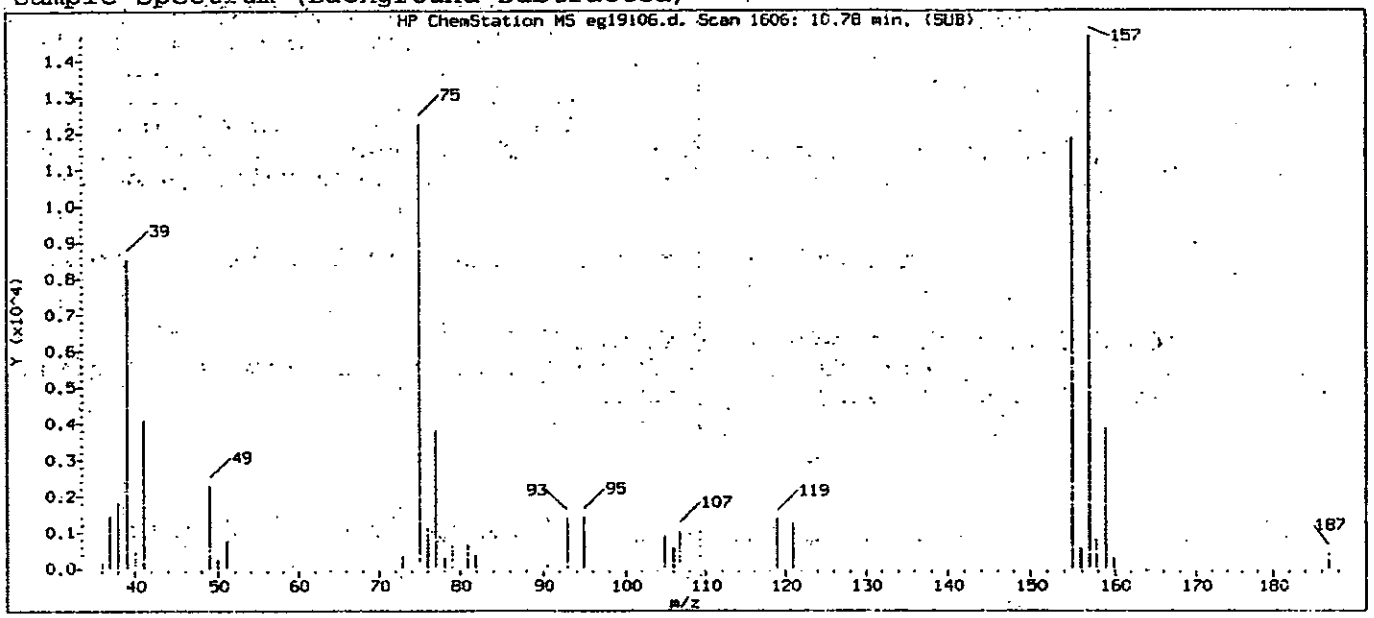
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

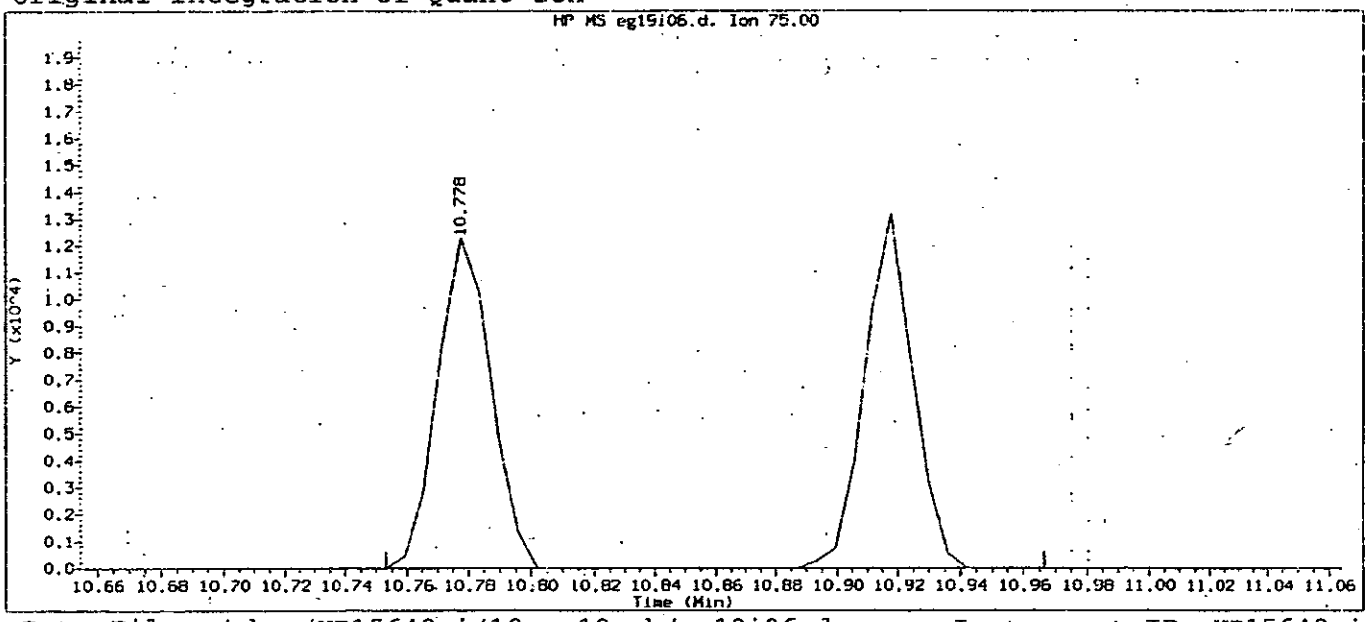
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0338

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

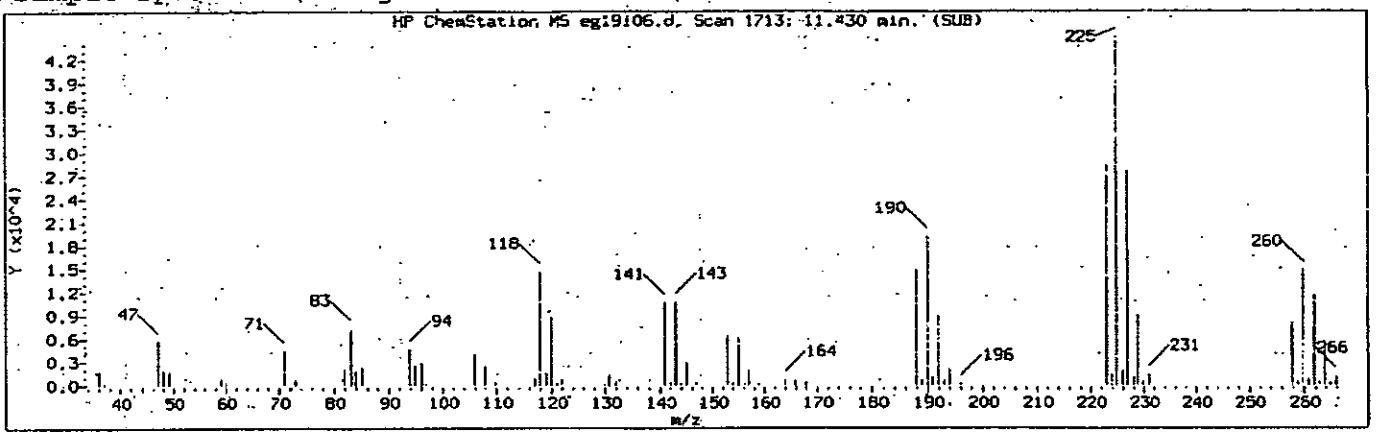
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area : 29137
On-column Amount (ng) : 8.9215
Integration start scan : 1601 Integration stop scan: 1636
Y at integration start : 0 Y at integration end: 0

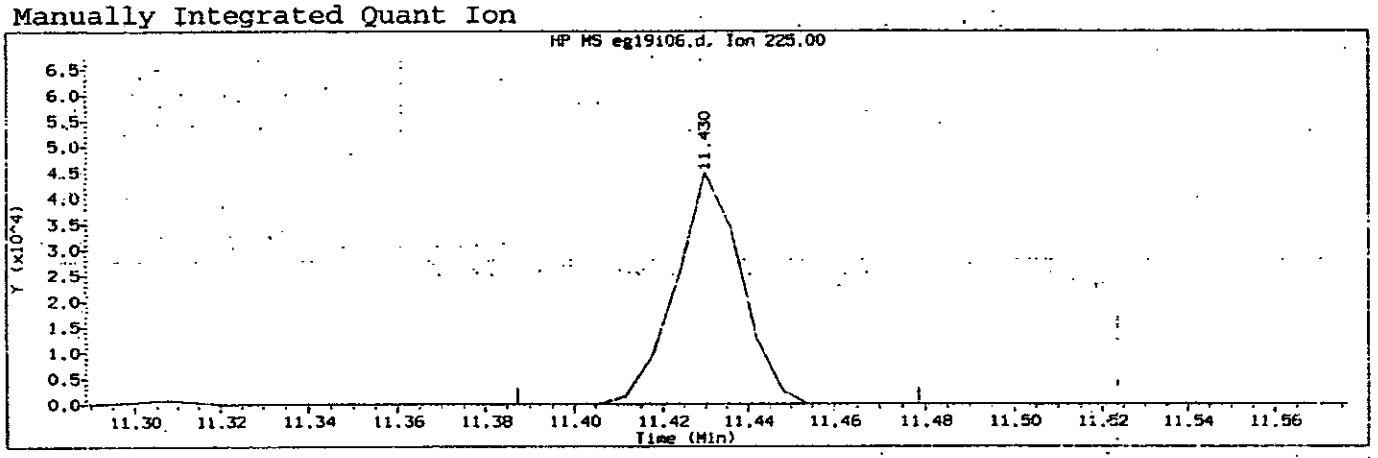
PTL06 0339

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18;49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:49 sej02002

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 147
Compound Name : Hexachlorobutadiene
Scan Number : 1713
Retention Time (minutes): 11.430
Quant Ion : 225.00
Area (flag) : 47676M
On-Column Amount (ng) : 9.4573
Integration start scan : 1705 Integration stop scan: 1720
Y at integration start : 0 Y at integration end: 0

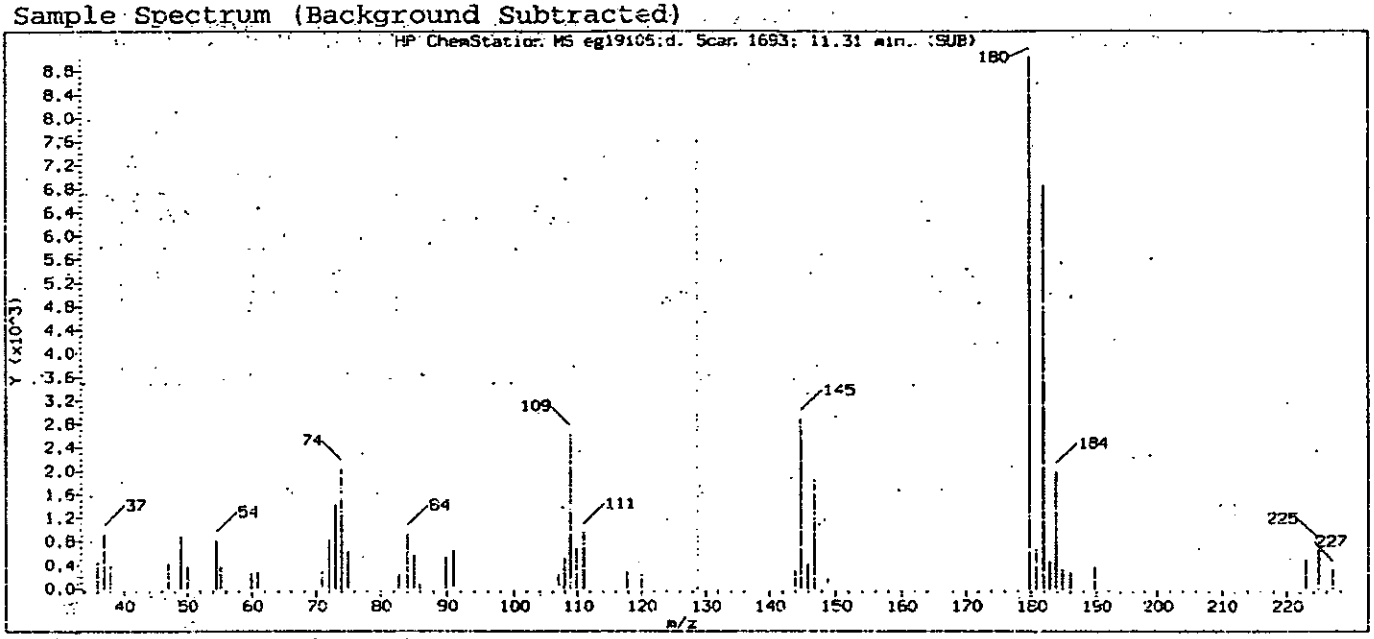
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

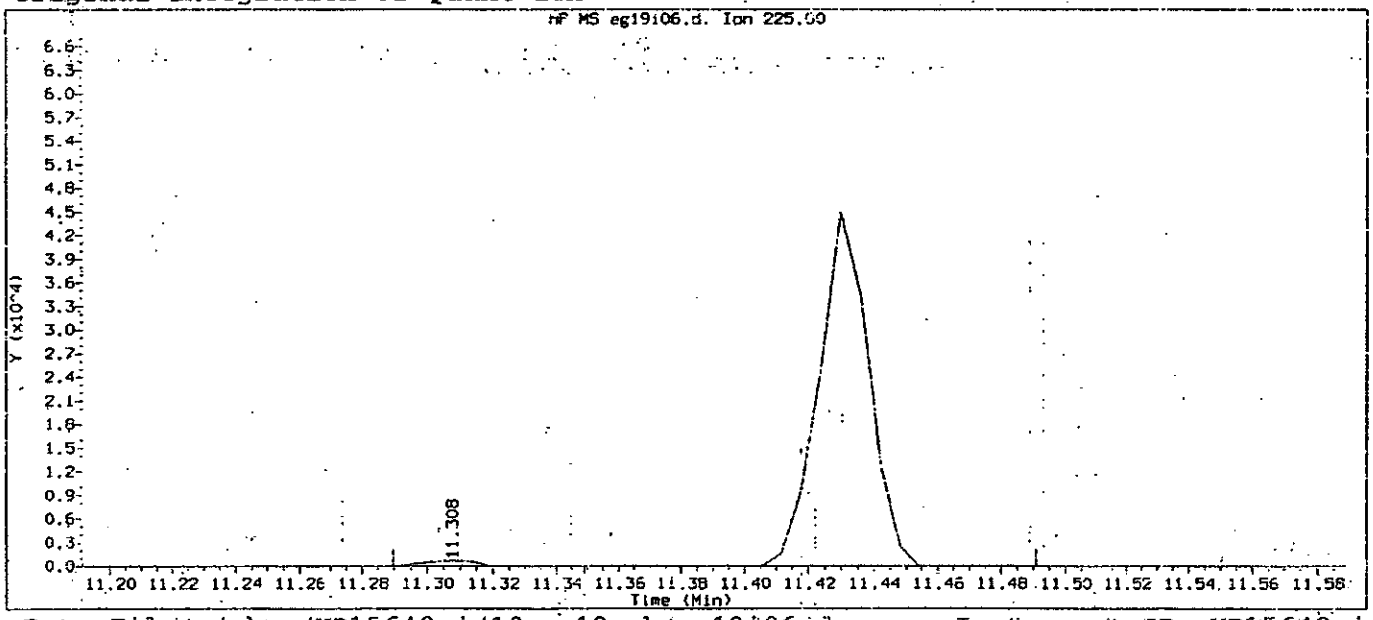
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0348

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i06.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:07 Analyst ID: JML01693

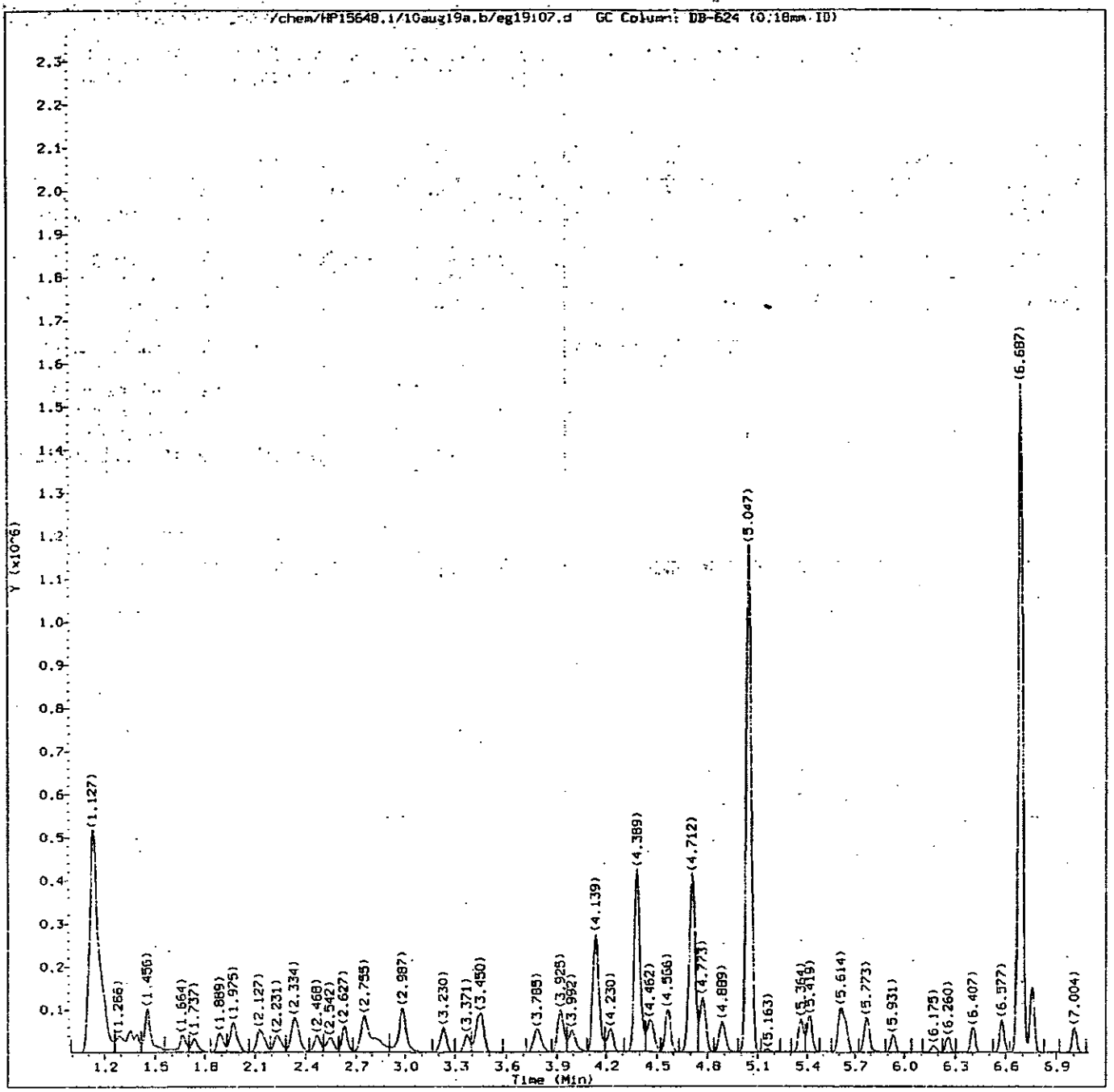
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:24
Date, time and analyst ID of latest file update: 19-Aug-2010 16:24 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 147
Compound Name : Hexachlorobutadiene
Scan Number : 1693
Retention Time (minutes): 11.308
Quant Ion : 225.00
Area : 48390
On-column Amount (ng) : 9.3980
Integration start scan : 1689 Integration stop scan: 1722
Y at integration start : 0 Y at integration end: 0

PTL06 0341

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d
Injection date and time: 19-AUG-2010 16:27

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004

Lab Sample ID: VSTD004

PTL86 8342

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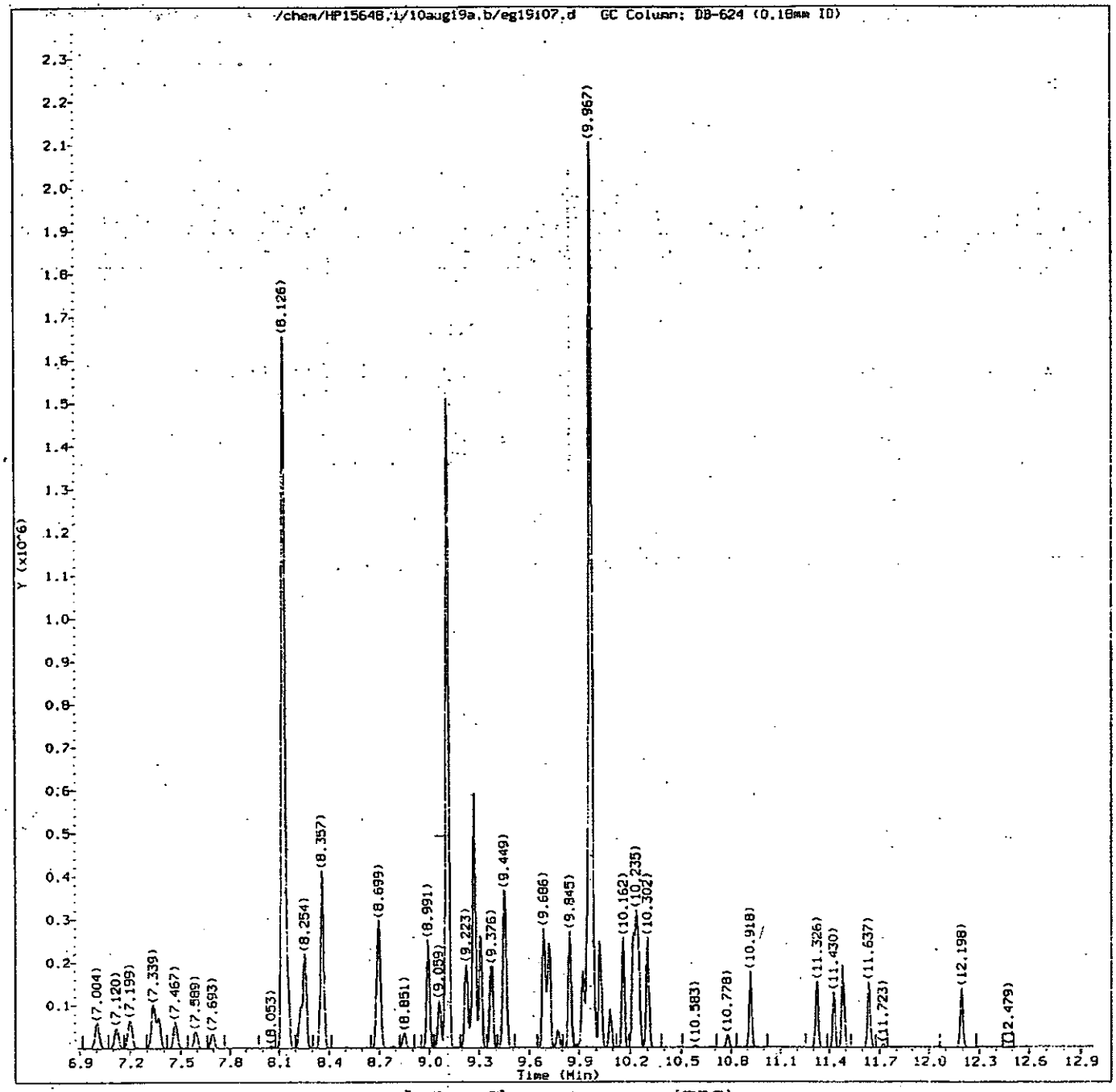
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d
Injection date and time: 19-AUG-2010 16:27

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 19-AUG-2010 18:49

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004

Lab Sample ID: VSTD004

PTL86 0343

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Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01593

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.292	85	43570	4.227
2) Chloromethane	(1)	1.359	50	44562M	4.239
4) Vinyl Chloride	(1)	1.450	62	42334M	4.166
3) 1,3-Butadiene	(1)	1.456	39	28284	4.273
5) Bromomethane	(1)	1.670	94	27712	4.306
6) Chloroethane	(1)	1.737	64	25255	4.205
7) Dichlorofluoromethane	(1)	1.889	67	52752	4.022
8) Trichlorofluoromethane	(1)	1.968	101	46651	4.192
9) n-Pentane	(1)	1.975	43	46803M	3.824
12) Ethyl Ether	(1)	2.127	59	22158	3.877
13) Freon 123a	(1)	2.151	67	32559	3.945
14) Acrolein	(4)	2.237	56	62402	66.593
15) 1,1-Dichloroethene	(1)	2.334	96	26253	3.953
17) Freon 113	(1)	2.340	101	25928	3.879
16) Acetone	(1)	2.359	43	16498	7.814
18) Methyl Iodide	(1)	2.468	142	42964	3.925
21) Carbon Disulfide	(1)	2.548	76	72518	3.955
22) Allyl Chloride	(1)	2.627	41	42422	3.968
23) Methyl Acetate	(1)	2.639	43	22051	3.916
24) Methylene Chloride	(1)	2.749	84	30310	4.364
25) *t-Butyl Alcohol-d10	(4)	2.755	65	137515	250.000
26) t-Butyl Alcohol	(4)	2.840	59	51218M	101.003
27) Acrylonitrile	(1)	2.962	53	11622M	3.674
28) trans-1,2-Dichloroethene	(1)	2.987	96	27066	3.915
29) Methyl Tertiary Butyl Ether	(1)	2.987	73	73977	3.876
31) n-Hexane	(1)	3.230	57	41029	3.822
33) 1,1-Dichloroethane	(1)	3.371	63	48166	3.893
34) di-Isopropyl Ether	(1)	3.432	45	78951	3.788
35) 2-Chloro-1,3-Butadiene	(1)	3.456	53	36683	3.811
36) 1,2-Dichloroethene (total)	(1)		96	55618	7.827
37) Ethyl t-Butyl Ether	(1)	3.785	59	75446	3.878
39) cis-1,2-Dichloroethene	(1)	3.919	96	28552	3.912
41) 2,2-Dichloropropane	(1)	3.925	77	35858	3.887
40) 2-Butanone	(1)	3.938	43	28742M	8.113
42) Propionitrile	(4)	3.992	54	79372	101.369
44) Methacrylonitrile	(1)	4.139	67	115004	36.675
45) Bromochloromethane	(1)	4.151	128	14496	4.181
46) Tetrahydrofuran	(4)	4.194	71	7550	12.998
47) Chloroform	(1)	4.230	83	42043	3.837

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
51)$Dibromofluoromethane(mz111)	(1)	4.389	111	270402	50.264
50)$Dibromofluoromethane	(1)	4.389	113	263894	50.346
52) 1,1,1-Trichloroethane	(1)	4.413	97	47065	4.460
53) Cyclohexane	(1)	4.468	56	48337M	3.731
55) 1,1-Dichloropropene	(1)	4.566	75	38760	3.887
56) Carbon Tetrachloride	(1)	4.572	117	28441	3.713
58) Isobutyl Alcohol	(4)	4.687	41	40131	244.732
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.712	104	45365	50.621
59)$1,2-Dichloroethane-d4	(1)	4.712	102	69793	50.148
63) Benzene	(1)	4.773	78	112596	3.948
65) 1,2-Dichloroethane	(1)	4.791	62	31942	3.913
67) t-Amyl Methyl Ether	(1)	4.889	73	71291	3.776
68) n-Heptane	(1)	5.041	43	40854	3.825
69)*Fluorobenzene	(1)	5.047	96	1172241	50.000
71) n-Butanol	(4)	5.364	56	67079	494.276
72) Trichloroethene	(1)	5.413	95	28783	3.925
74) Methylcyclohexane	(1)	5.608	83	50392	3.710
76) 1,2-Dichloropropane	(1)	5.645	63	27629	3.830
78) Dibromomethane	(1)	5.766	93	15896M	3.869
79) Methyl Methacrylate	(1)	5.779	69	21231	3.509
80) 1,4-Dioxane	(4)	5.785	88	11124	225.327
81) Bromodichloromethane	(1)	5.931	83	29263	3.788
82) 2-Nitropropane	(1)	6.175	41	10649M	7.700
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	17433	3.536
87) cis-1,3-Dichloropropene	(1)	6.407	75	38397	3.748
88) 4-Methyl-2-Pentanone	(1)	6.577	43	57052	7.254
90)$Toluene-d8	(2)	6.687	98	1159093	49.971
89)$Toluene-d8(mz100)	(2)	6.687	100	747922	49.854
91) Toluene	(2)	6.754	92	71875	3.908
92) trans-1,3-Dichloropropene	(2)	7.004	75	33926	3.608
93) Ethyl Methacrylate	(2)	7.120	69	27162	3.492
94) 1,1,2-Trichloroethane	(2)	7.199	97	23078	3.886
96) Tetrachloroethene	(2)	7.339	166	33517	3.920
97) 1,3-Dichloropropane	(2)	7.370	76	39457	3.762
98) 2-Hexanone	(2)	7.467	43	39086	6.271
100) Dibromochloromethane	(2)	7.589	129	20672	3.570
101) 1,2-Dibromoethane	(2)	7.693	107	22321	3.696
103)*Chlorobenzene-d5	(2)	8.126	117	838778	50.000
104) Chlorobenzene	(2)	8.150	112	76810	3.858

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sara E. Johnson
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
105) Xylene (Total)	(2)		106	154102	11.250
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	22037	3.716
107) Ethylbenzene	(2)	8.254	91	134156MA	3.807
108) m+p-Xylene	(2)	8.357	106	103865	7.501
110) o-Xylene	(2)	8.693	106	50237	3.749
111) Styrene	(2)	8.705	104	75006	3.545
112) Bromoform	(2)	8.851	173	14399	3.391
113) Isopropylbenzene	(2)	8.991	105	132858	3.766
115) Cyclohexanone	(4)	9.059	55	38439	242.698
116)$4-Bromofluorobenzene	(2)	9.107	95	408017	49.583
117)$4-Bromofluorobenzene(mz174)	(2)	9.113	174	354375	50.096
118) Bromobenzene	(3)	9.223	156	30741	3.819
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	32695M	3.731
120) 1,2,3-Trichloropropane	(3)	9.260	110	9522	3.683
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	90166M	34.329
122) n-Propylbenzene	(3)	9.308	91	158849M	3.851
123) 2-Chlorotoluene	(3)	9.376	126	31595M	3.841
124) 1,3,5-Trimethylbenzene	(3)	9.443	105	102553M	3.640
125) 4-Chlorotoluene	(3)	9.455	126	31148	3.737
127) tert-Butylbenzene	(3)	9.686	134	26956M	3.846
128) Pentachloroethane	(3)	9.699	167	14730	3.512
130) 1,2,4-Trimethylbenzene	(3)	9.717	105	107120	3.668
132) sec-Butylbenzene	(3)	9.845	105	137765	3.722
133) 1,3-Dichlorobenzene	(3)	9.924	146	59426	3.813
134) p-Isopropyltoluene	(3)	9.949	119	117512	3.652
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	454754	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	60951M	3.866
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	107574	3.761
138) Benzyl Chloride	(3)	10.083	91	49912M	3.936
139) 1,3-Diethylbenzene	(3)	10.162	105	66677	3.592
140) 1,4-Diethylbenzene	(3)	10.217	105	63937M	3.704
141) n-Butylbenzene	(3)	10.235	92	58991M	3.663
142) 1,2-Dichlorobenzene	(3)	10.247	146	57324	3.845
143) 1,2-Diethylbenzene	(3)	10.302	105	63319	3.659
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	5204M	3.374
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	40928	3.771
147) Hexachlorobutadiene	(3)	11.430	225	19185M	3.798
148) Naphthalene	(3)	11.485	128	112145	3.584
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	37119	3.685

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL86 0346

PTL86 8247

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on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
152) 2-Methylnaphthalene	(3)	12.198	142	51433M	3.111

M = Compound was manually integrated.

PTL06 8348

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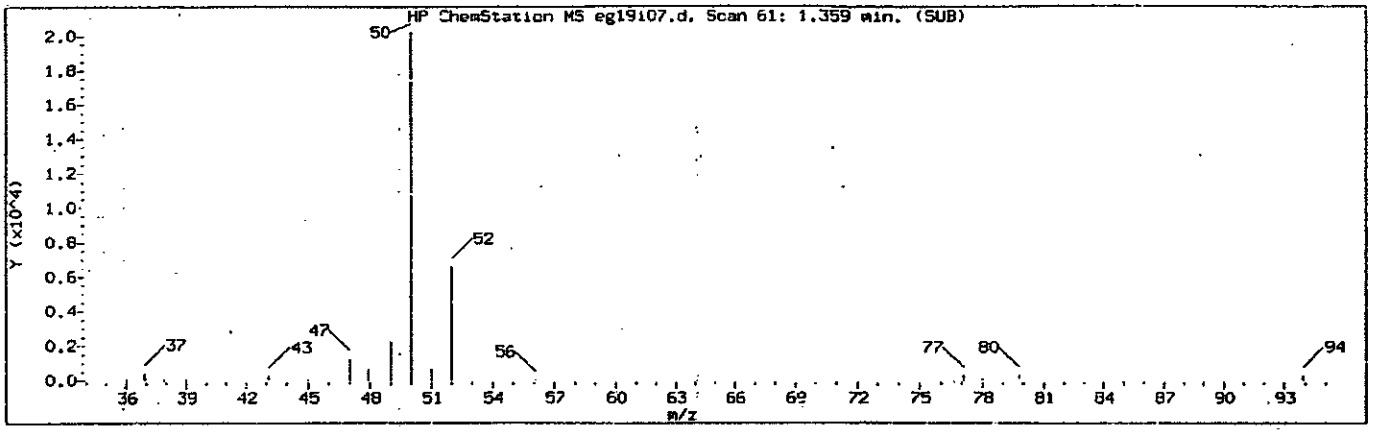
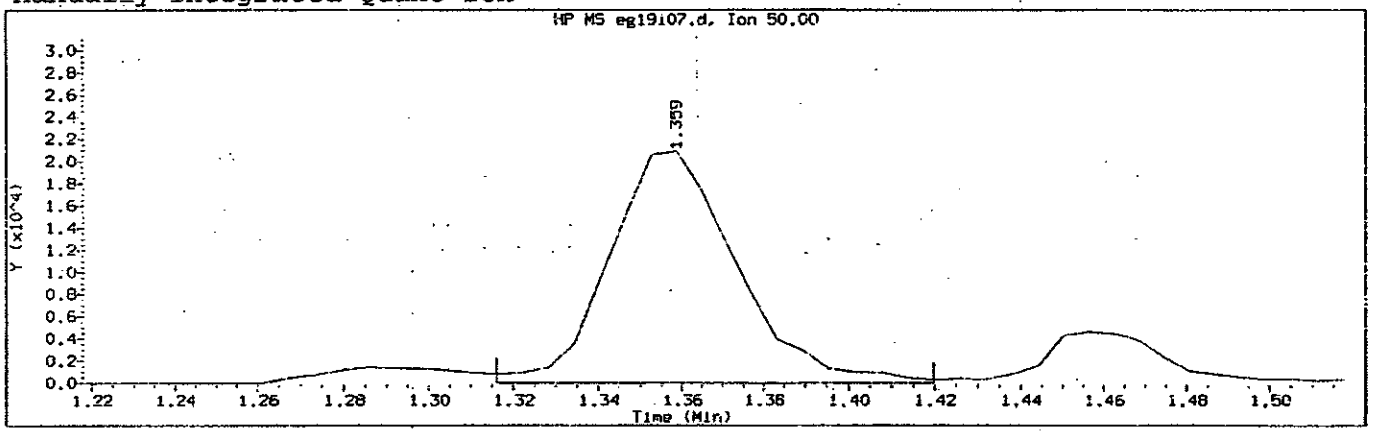
on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 2		
Compound Name	: Chloromethane		
Scan Number	: 61		
Retention Time (minutes)	: 1.359		
Quant Ion	: 50.00		
Area (flag)	: 44562M		
On-Column Amount (ng)	: 4.2390		
Integration start scan	: 53	Integration stop scan:	70
Y at integration start	: 0	Y at integration end:	0

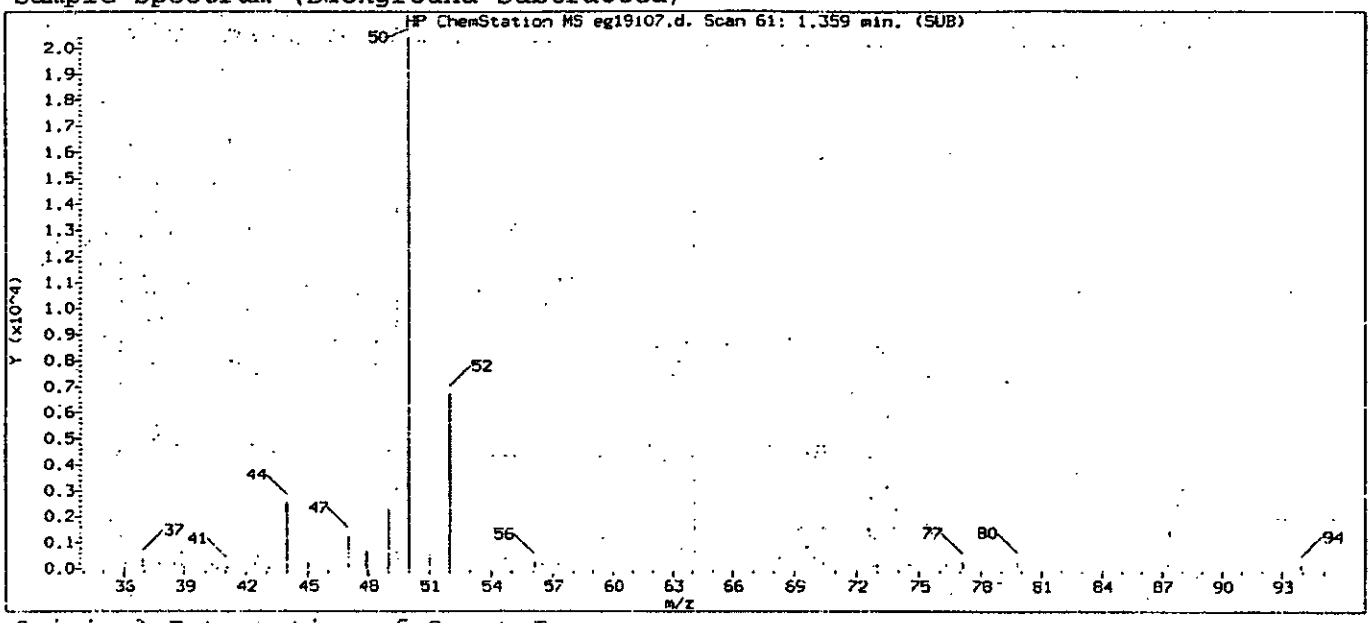
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

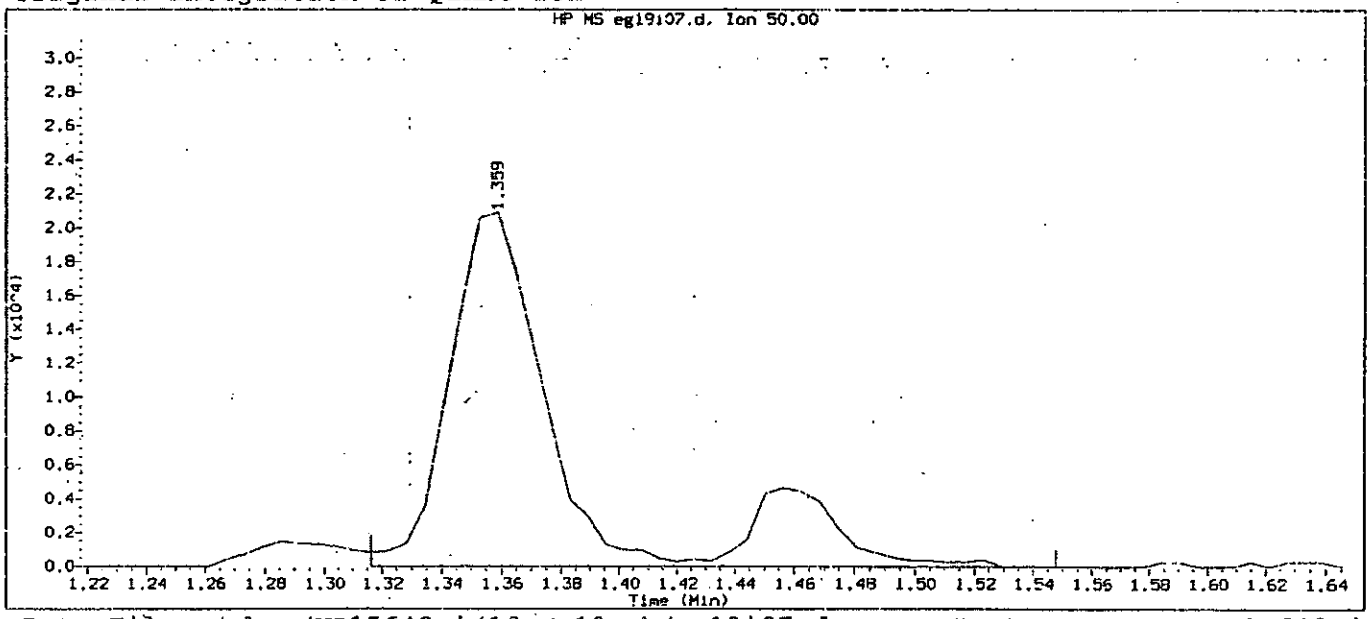
GC/MS audit/management approval: 8/20/10

PTL06 0349

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 2
Compound Name : Chloromethane
Scan Number : 61
Retention Time (minutes): 1.359
Quant Ion : 50.00
Area : 54194
On-column Amount (ng) : 4.9657
Integration start scan : 53 Integration stop scan: 91
Y at integration start : 0 Y at integration end: 0

PTL06 0358

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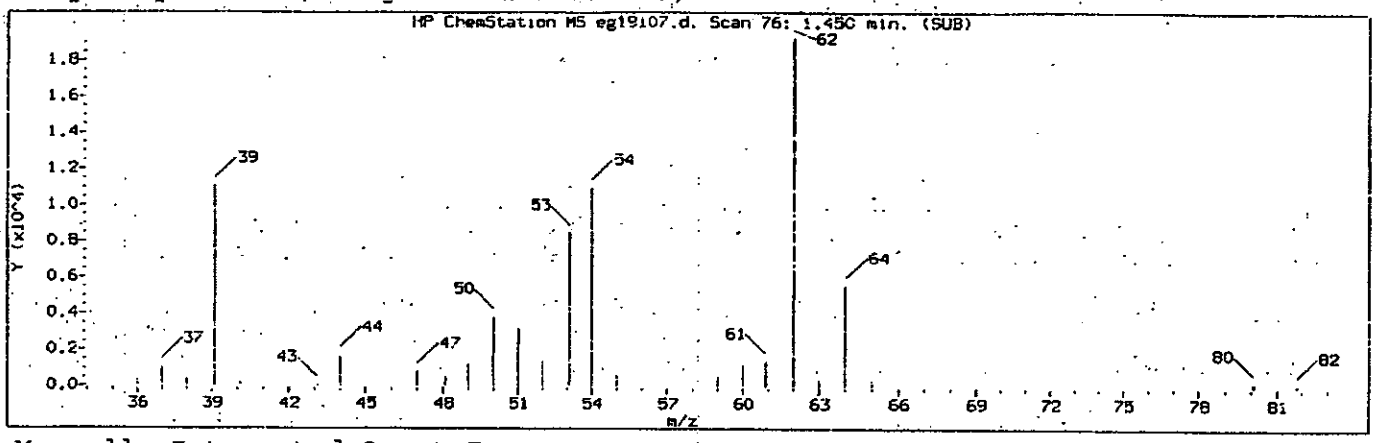
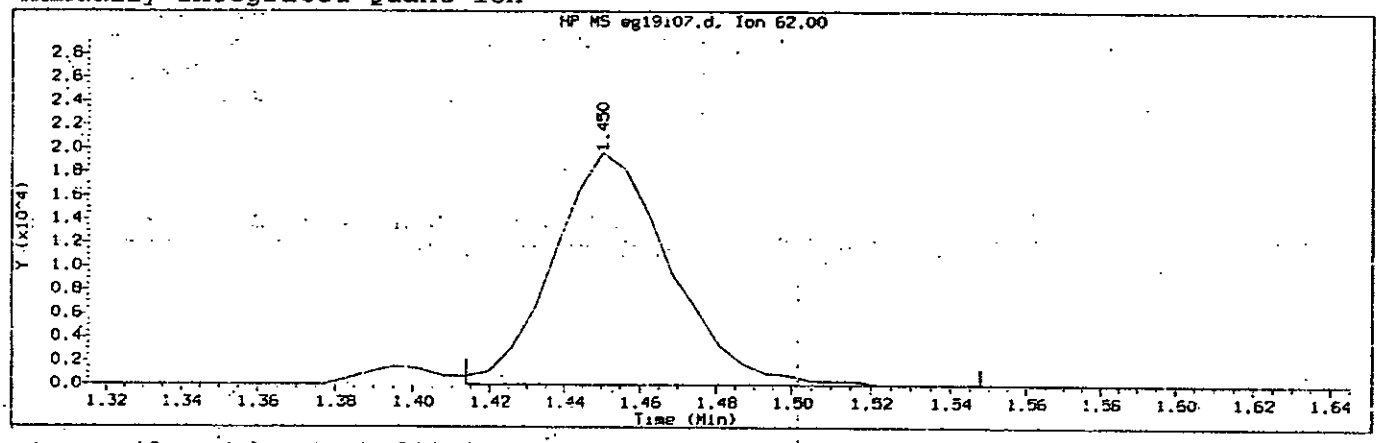
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 4		
Compound Name	: Vinyl Chloride		
Scan Number	: 76		
Retention Time (minutes)	: 1.450		
Quant Ion	: 62.00		
Area (flag)	: 42334M		
On-Column Amount (ng)	: 4.1657		
Integration start scan	: 69	Integration stop scan:	91
Y at integration start	: 0	Y at integration end:	0

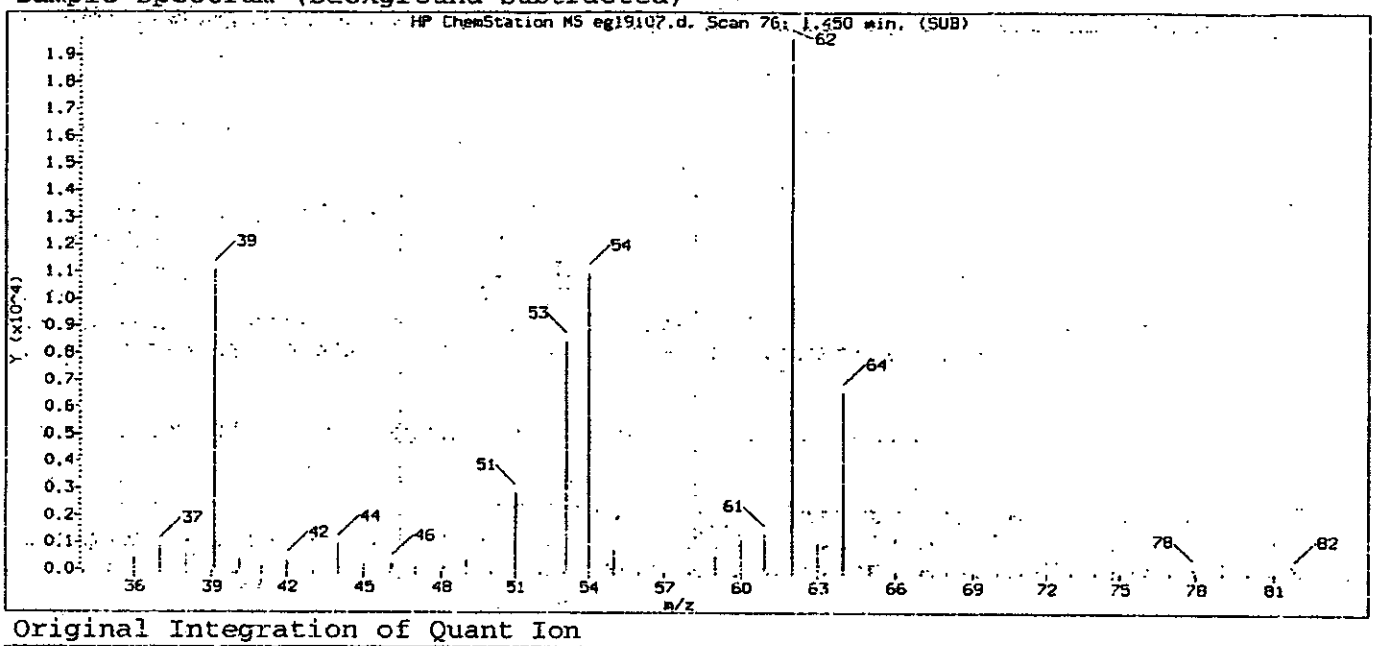
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

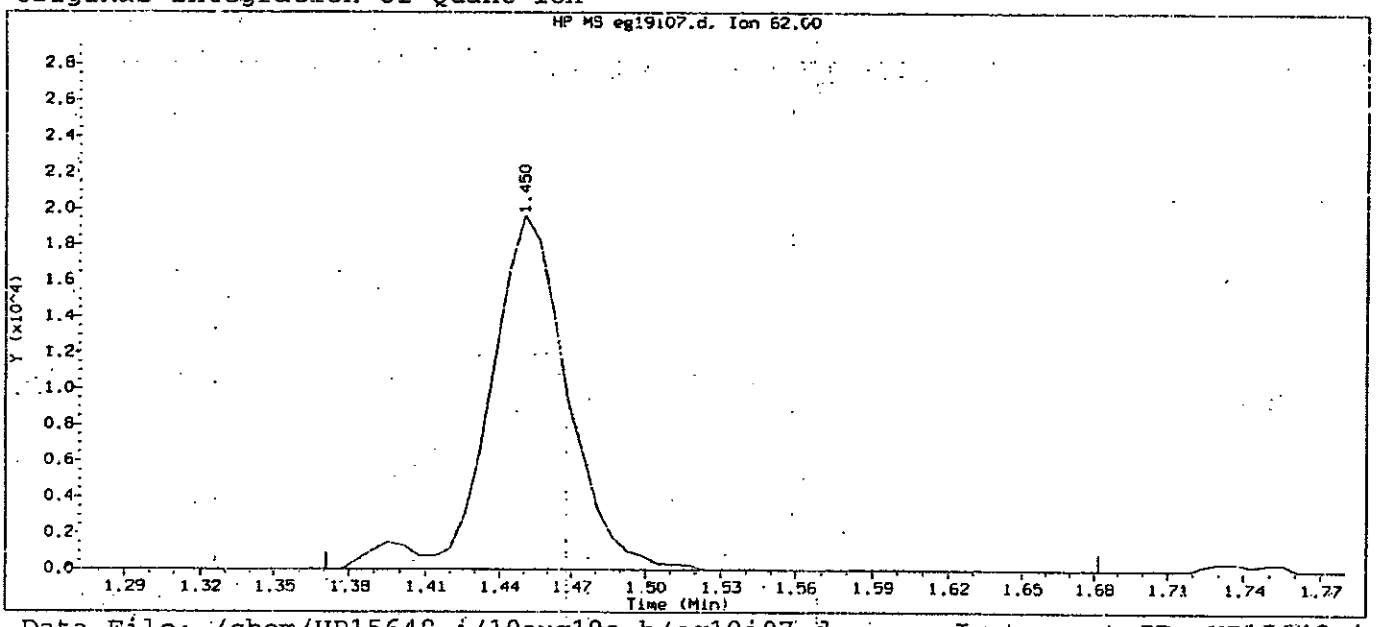
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 0351

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 4		
Compound Name	: Vinyl Chloride		
Scan Number	: 76		
Retention Time (minutes)	: 1.450		
Quant Ion	: 62.00		
Area	: 44225		
On-column Amount (ng)	: 4.3038		
Integration start scan	: 62	Integration stop scan:	113
Y at integration start	: 0	Y at integration end:	0

PTL86 0352

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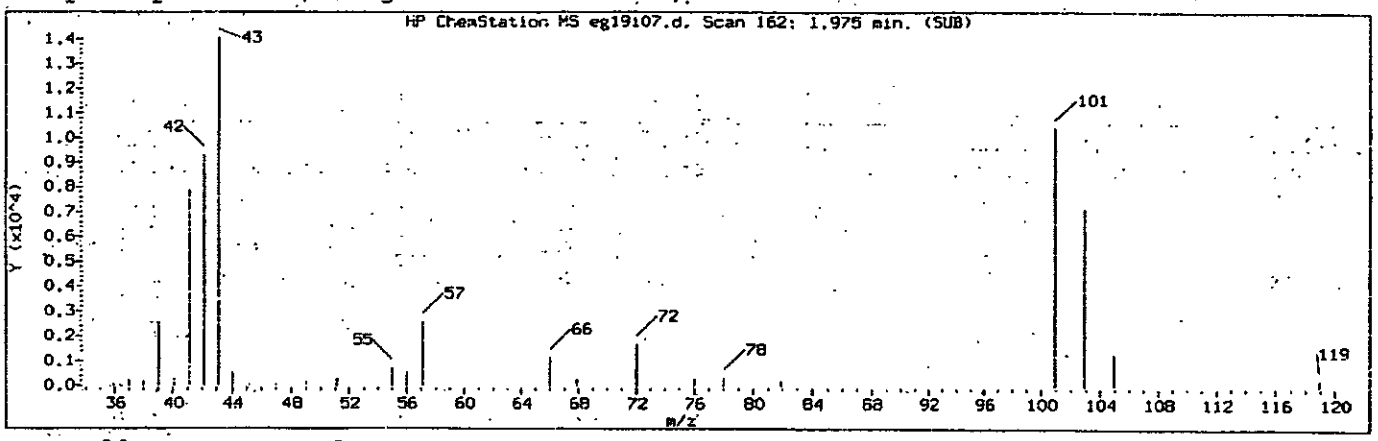
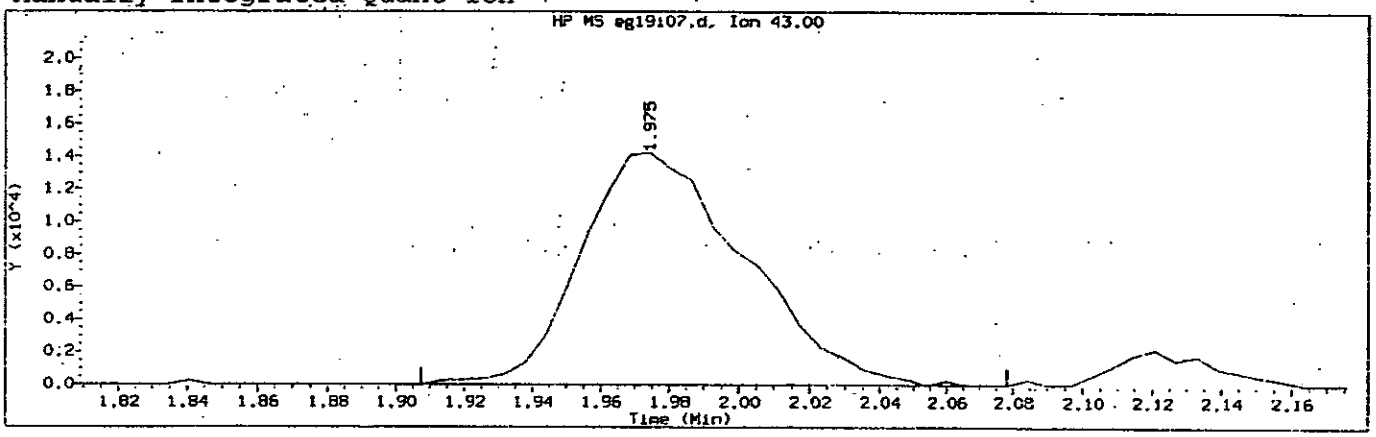
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 9		
Compound Name	: n-Pentane		
Scan Number	: 162		
Retention Time (minutes)	: 1.975		
Quant Ion	: 43.00		
Area (flag)	: 46803M		
On-Column Amount (ng)	: 3.8242		
Integration start scan	: 150	Integration stop scan:	178
Y at integration start	: 0	Y at integration end:	0

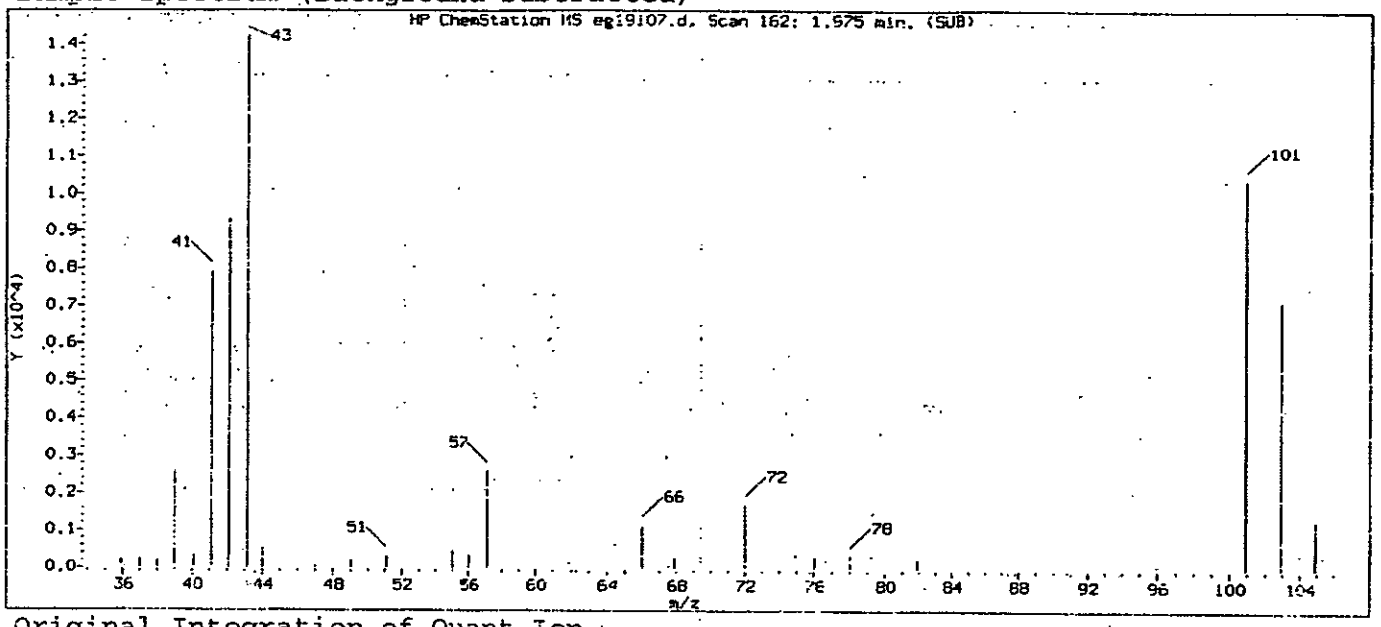
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

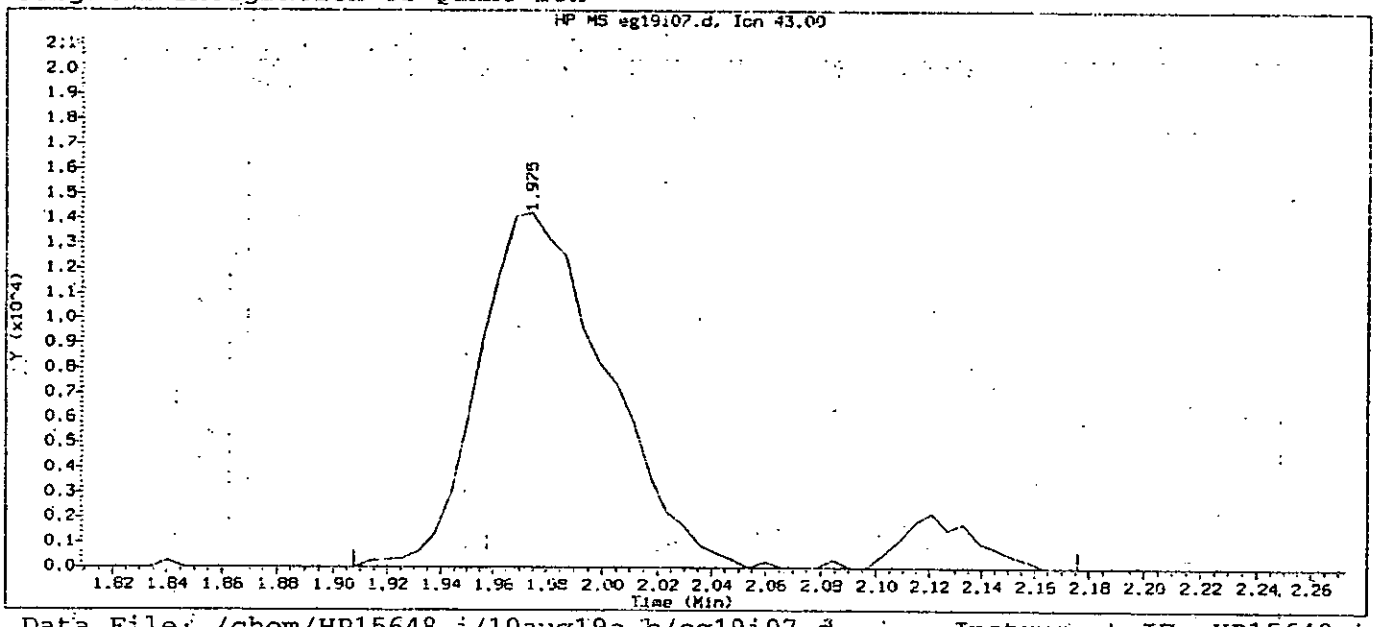
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0353

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 9
Compound Name	: n-Pentane
Scan Number	: 162
Retention Time (minutes)	: 1.975
Quant Ion	: 43.00
Area	: 51102
On-column Amount (ng)	: 4.1153
Integration start scan	: 150
Integration stop scan	: 194
Y at integration start	: 0
Y at integration end	: 0

PTL06 0354

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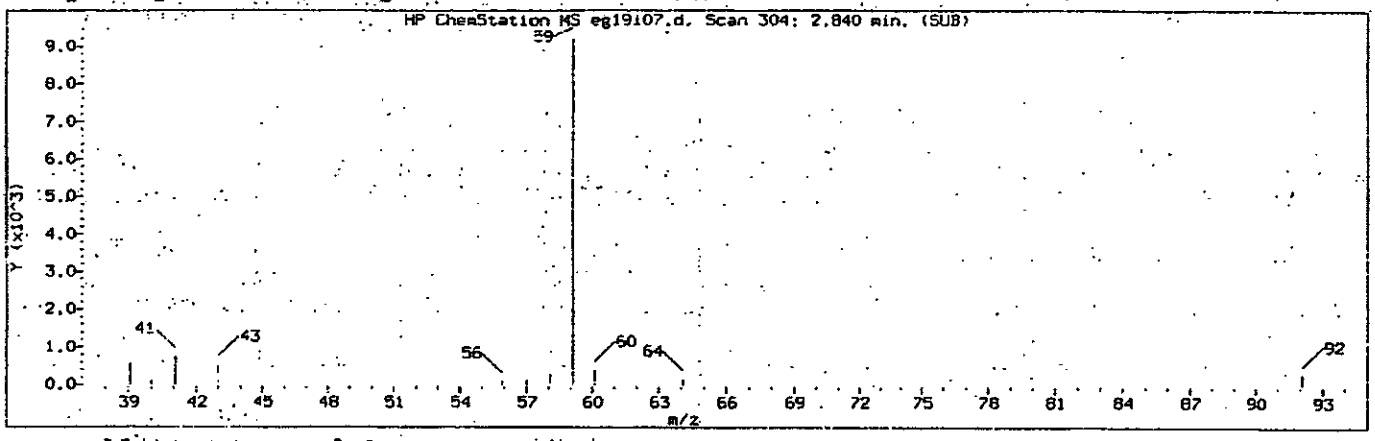
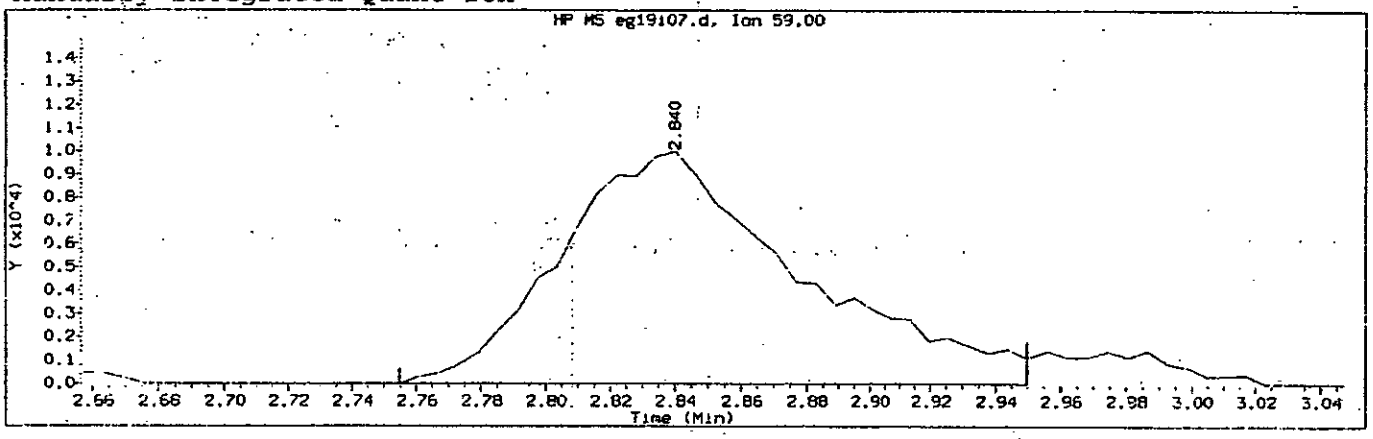
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

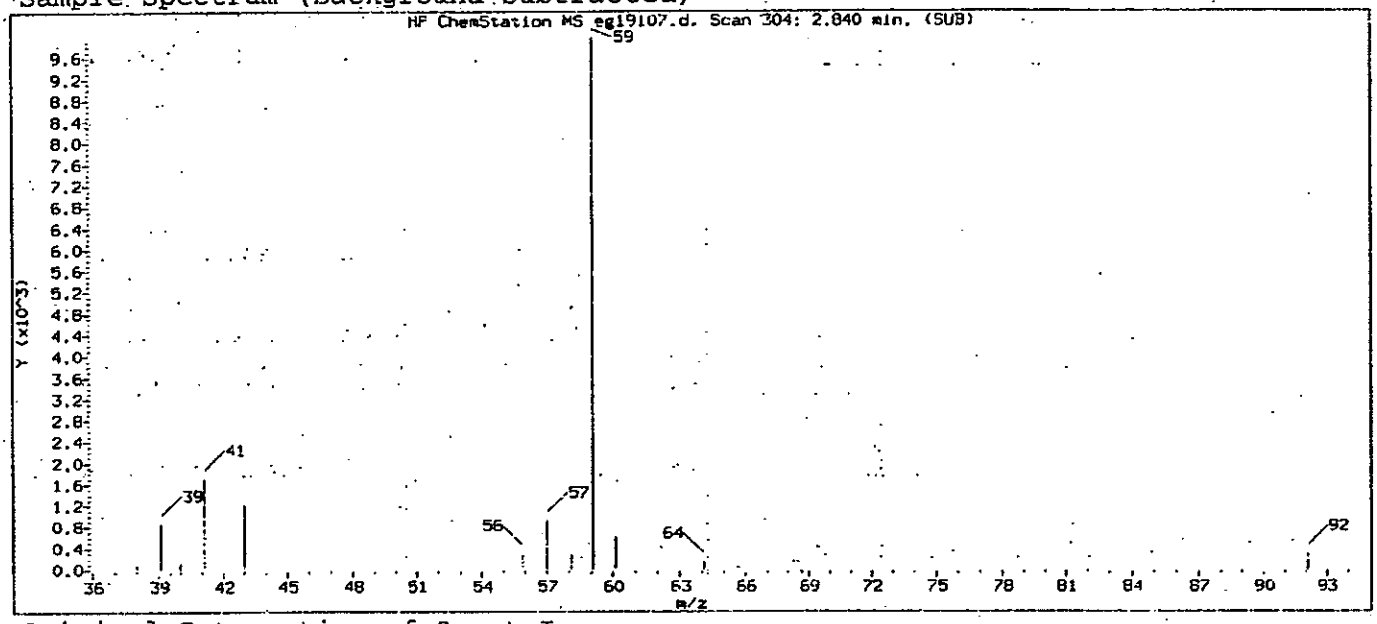
Compound Number	: 26		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 304		
Retention Time (minutes)	: 2.840		
Quant Ion	: 59.00		
Area (flag)	: 51218M		
On-Column Amount (ng)	: 101.0034		
Integration start scan	: 289	Integration stop scan:	321
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

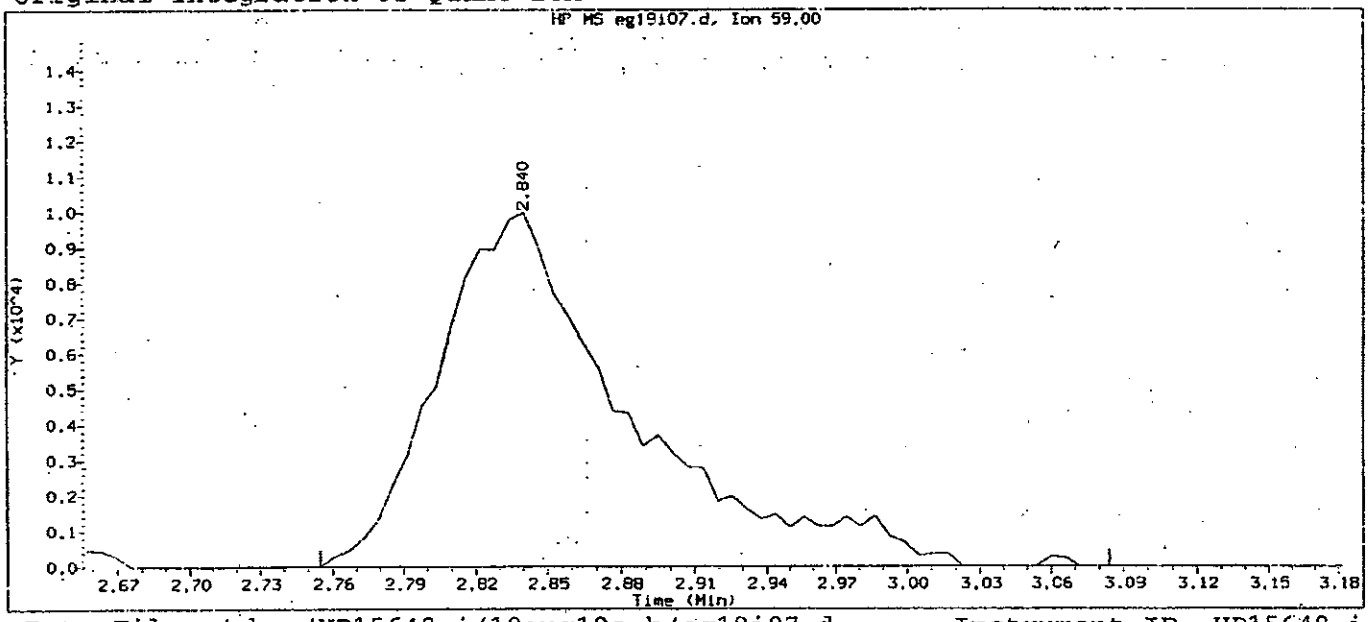
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [signature] 8/20/10 PTL86 8355

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

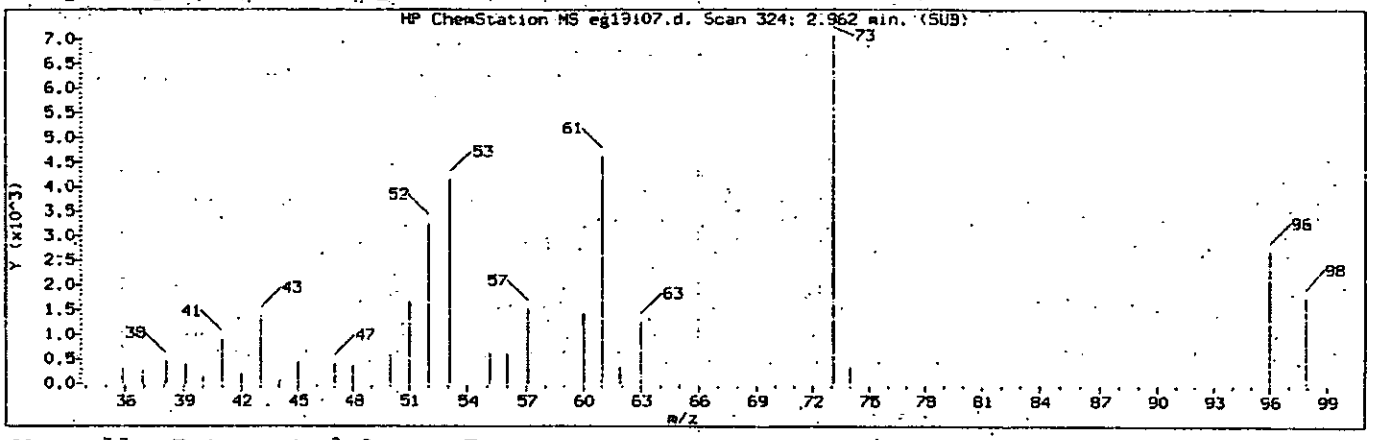
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 26		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 304		
Retention Time (minutes)	: 2.840		
Quant Ion	: 59.00		
Area	: 55123		
On-column Amount (ng)	: 78.0556		
Integration start scan	: 289	Integration stop scan:	343
Y at integration start	: 0	Y at integration end:	0

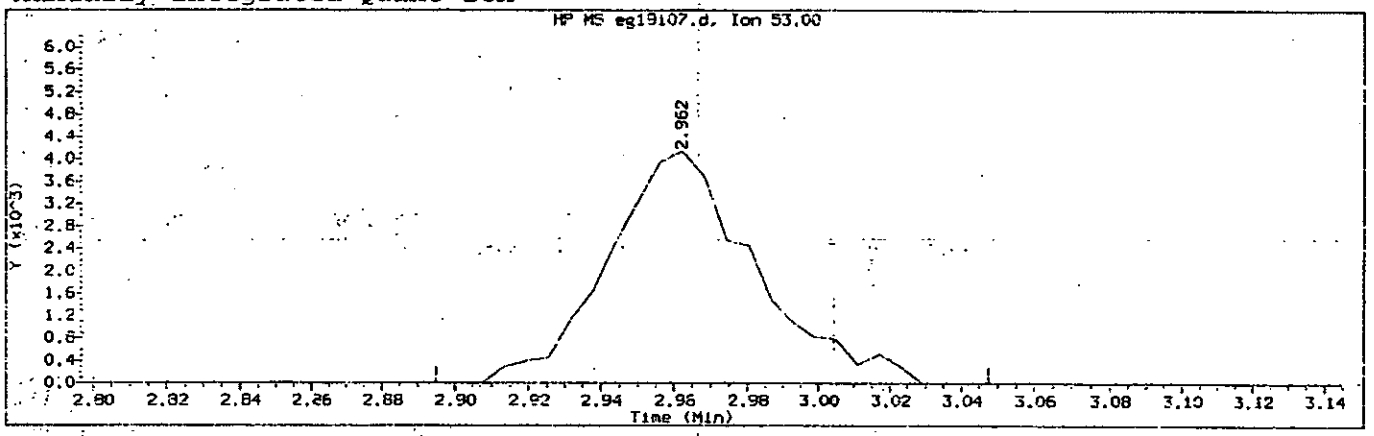
PTL86 8356

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 324		
Retention Time (minutes)	: 2.962		
Quant Ion	: 53.00		
Area (flag)	: 11622M		
On-Column Amount (ng)	: 3.6745		
Integration start scan	: 312	Integration stop scan:	337
Y at integration start	: 0	Y at integration end:	0

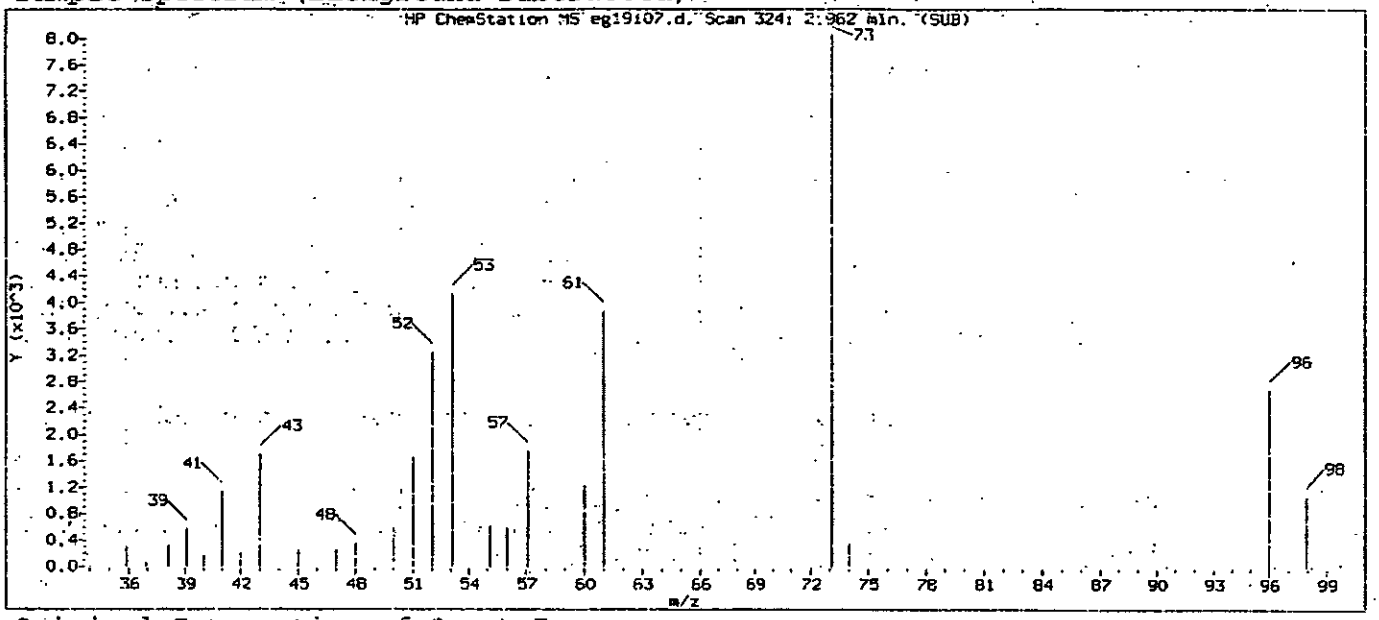
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

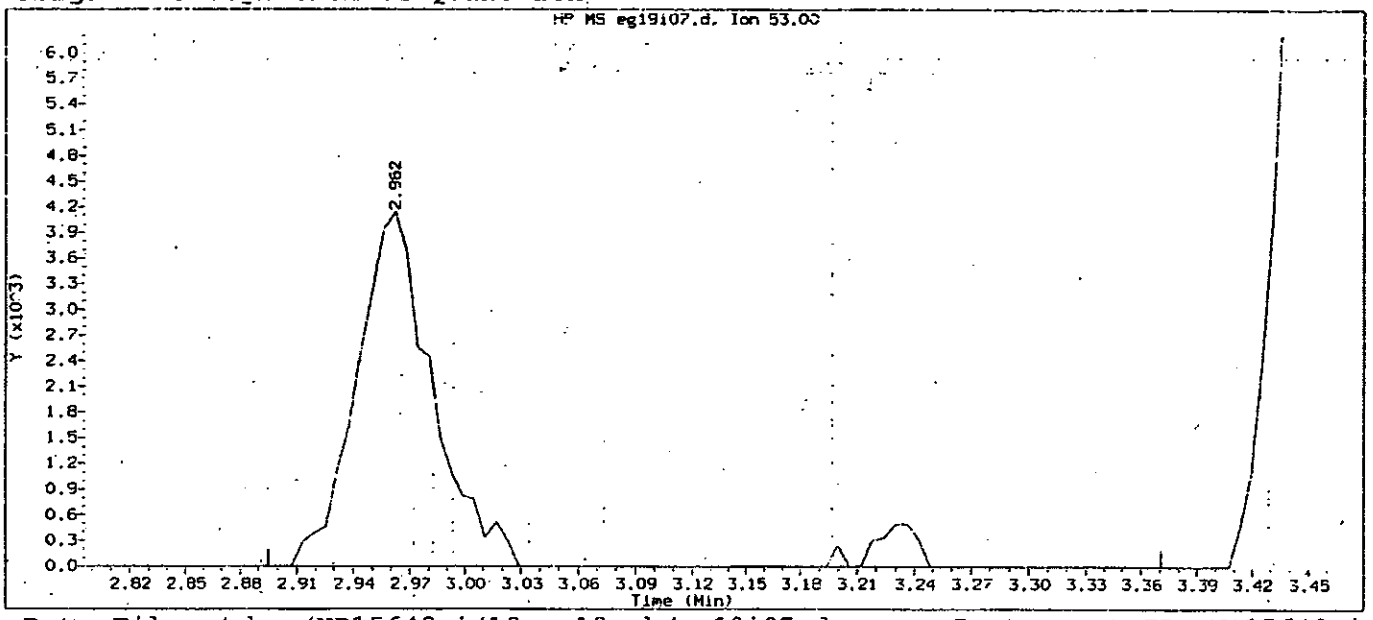
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 0359

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 15:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

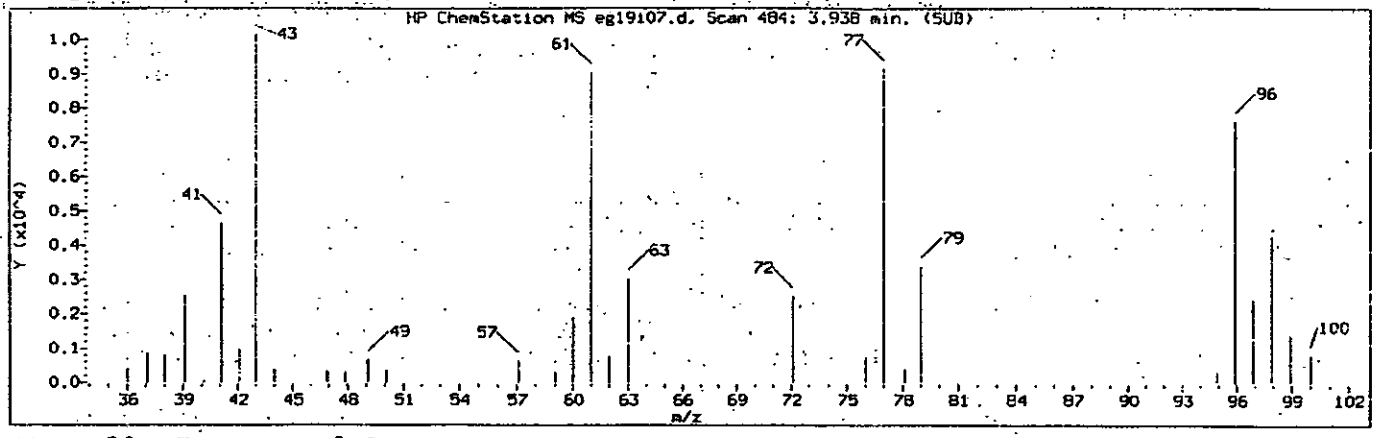
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 27
Compound Name : Acrylonitrile
Scan Number : 324
Retention Time (minutes): 2.962
Quant Ion : 53.00
Area : 12427
On-column Amount (ng) : 3.8879
Integration start scan : 312 Integration stop scan: 390
Y at integration start : 0 Y at integration end: 0

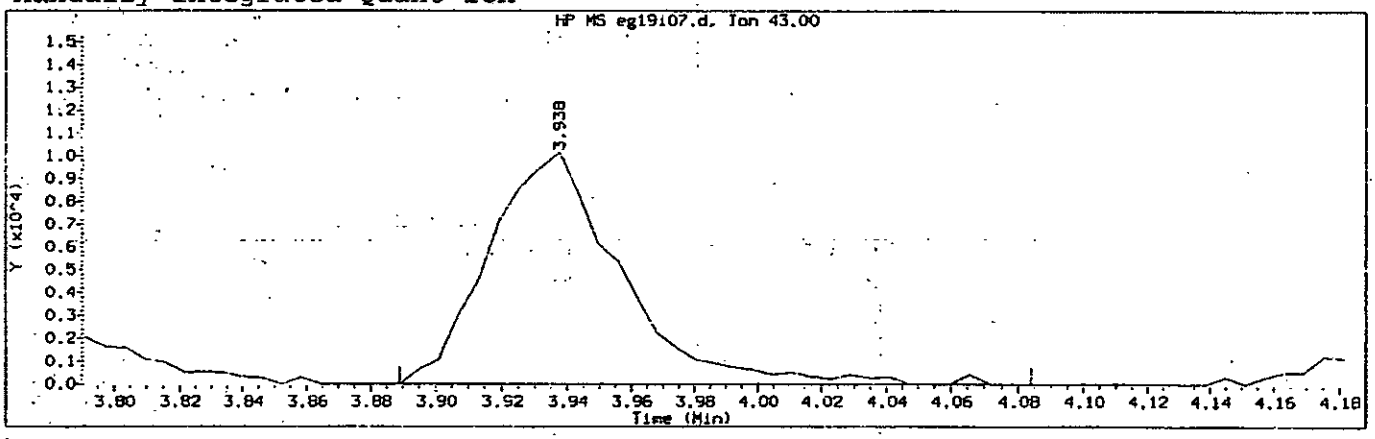
PTL86 0358

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 40		
Compound Name	: 2-Butanone		
Scan Number	: 484		
Retention Time (minutes)	: 3.938		
Quant Ion	: 43.00		
Area (flag)	: 28742M		
On-Column Amount (ng)	: 8.1132		
Integration start scan	: 475	Integration stop scan:	507
Y at integration start	: 0	Y at integration end:	0

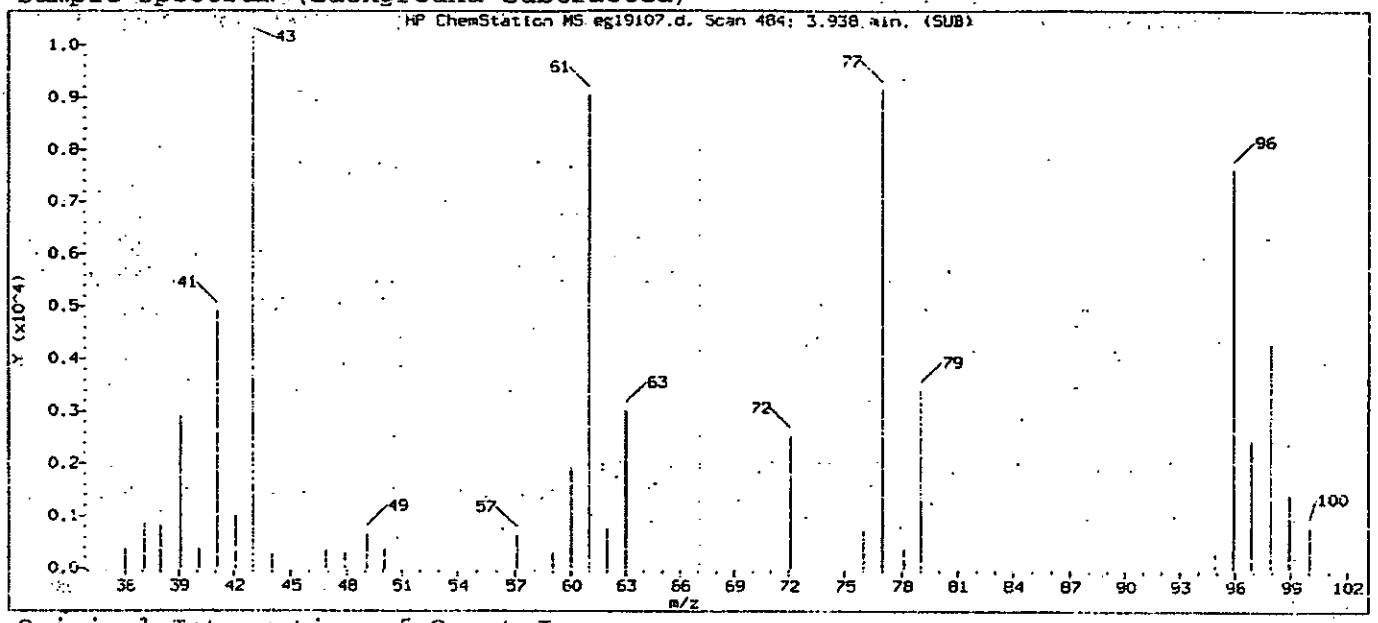
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

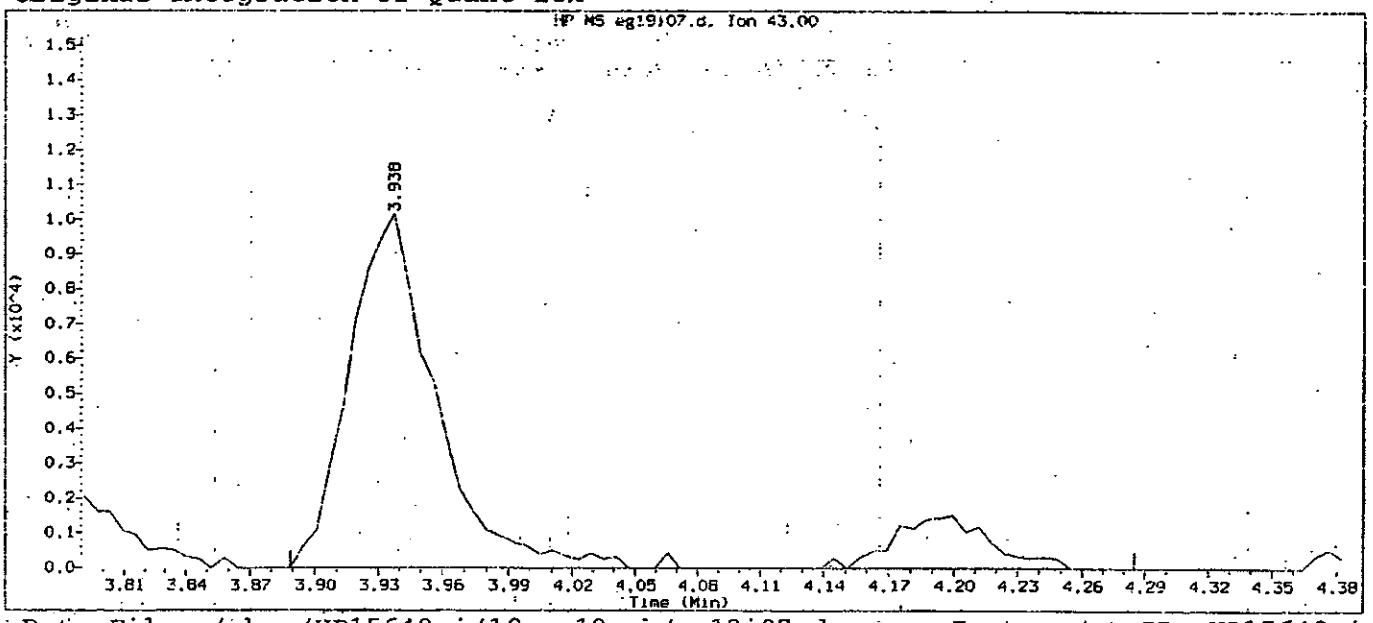
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 8359

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

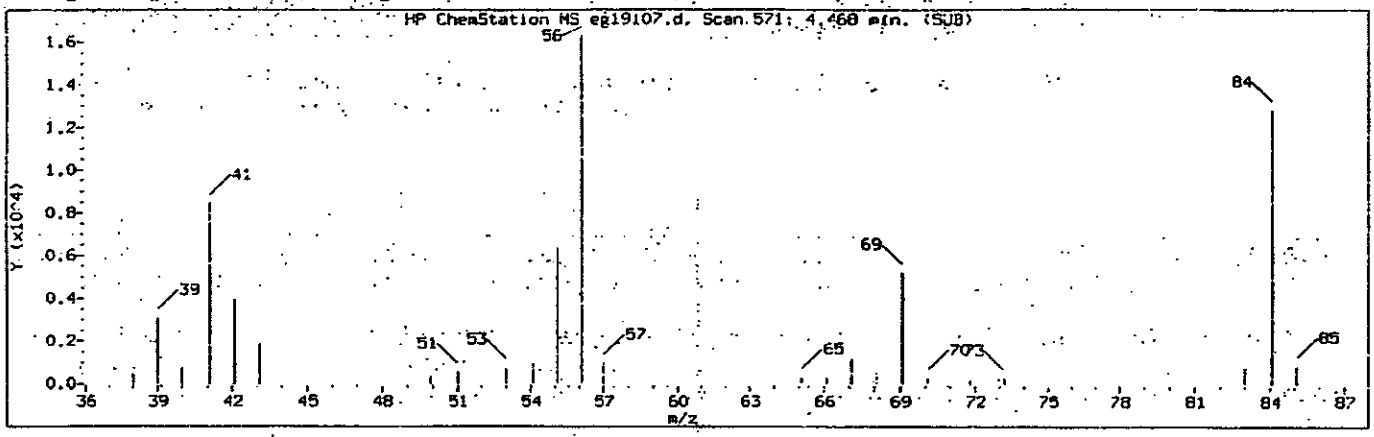
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 40
Compound Name : 2-Butanone
Scan Number : 484
Retention Time (minutes): 3.938
Quant Ion : 43.00
Area : 33483
On-column Amount (ng) : 8.6250
Integration start scan : 475 Integration stop scan: 540
Y at integration start : 0 Y at integration end: 0

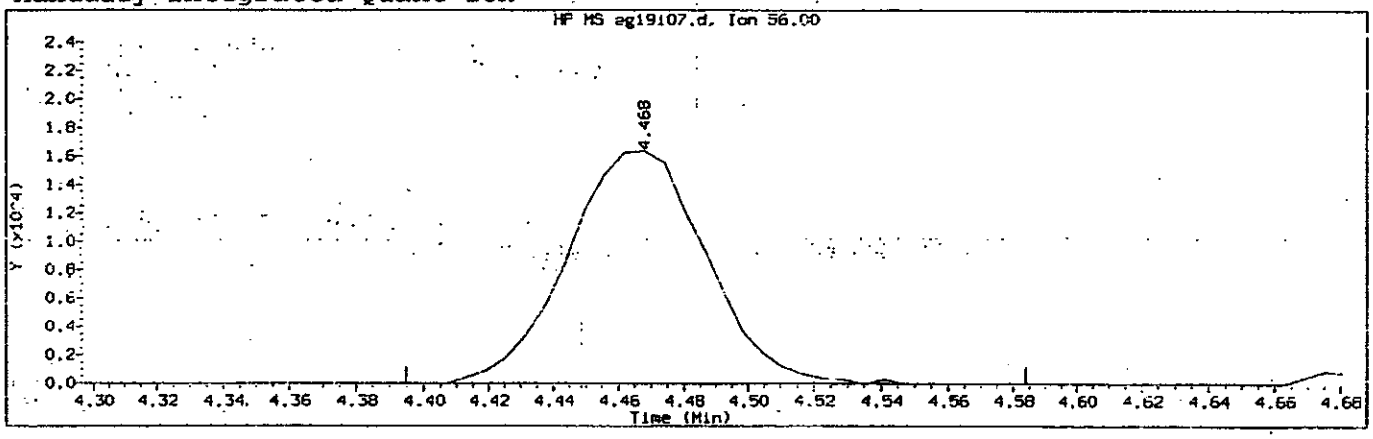
PTL86 0360

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 53		
Compound Name	: Cyclohexane		
Scan Number	: 571		
Retention Time (minutes)	: 4.468		
Quant Ion	: 56.00		
Area (flag)	: 48337M		
On-Column Amount (ng)	: 3.7308		
Integration start scan	: 558	Integration stop scan:	589
Y at integration start	: 0	Y at integration end:	0

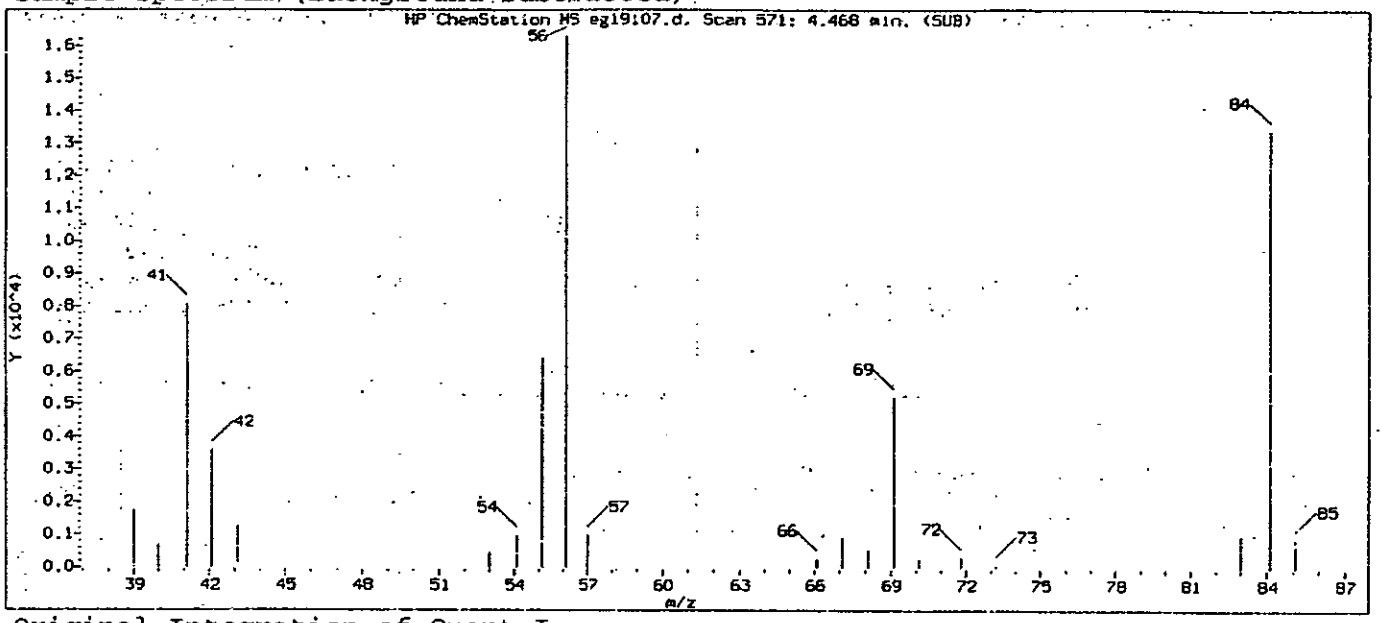
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

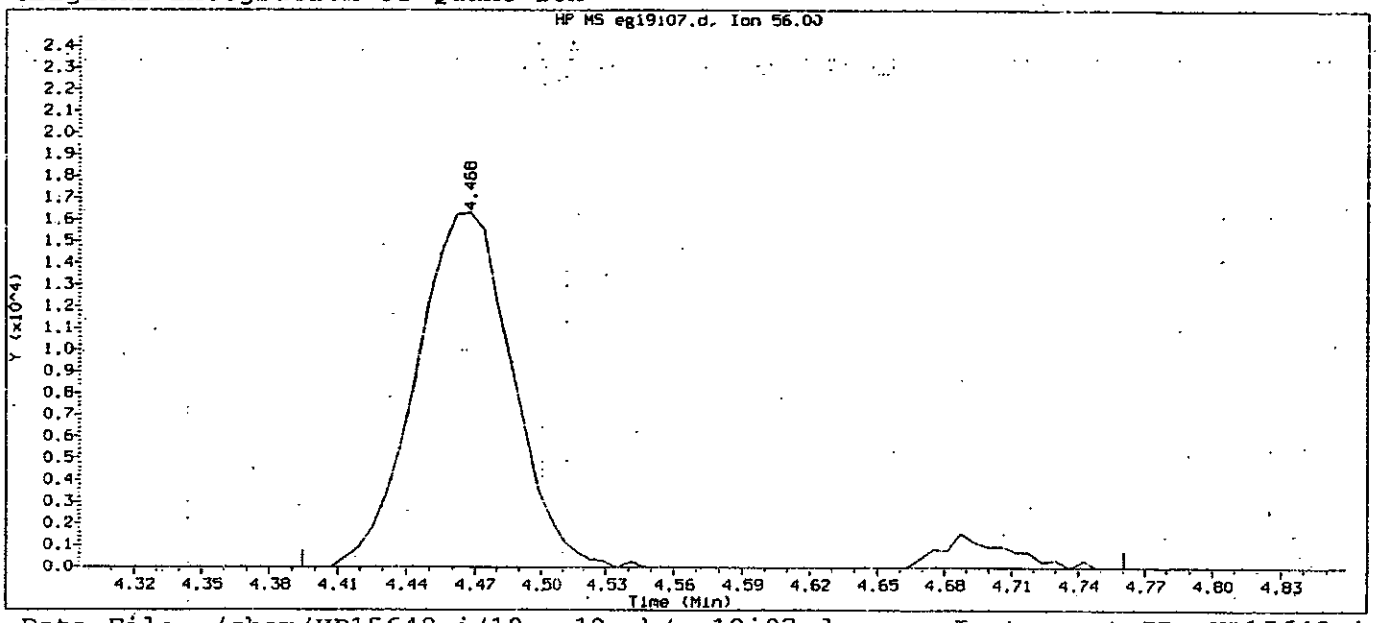
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8361

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

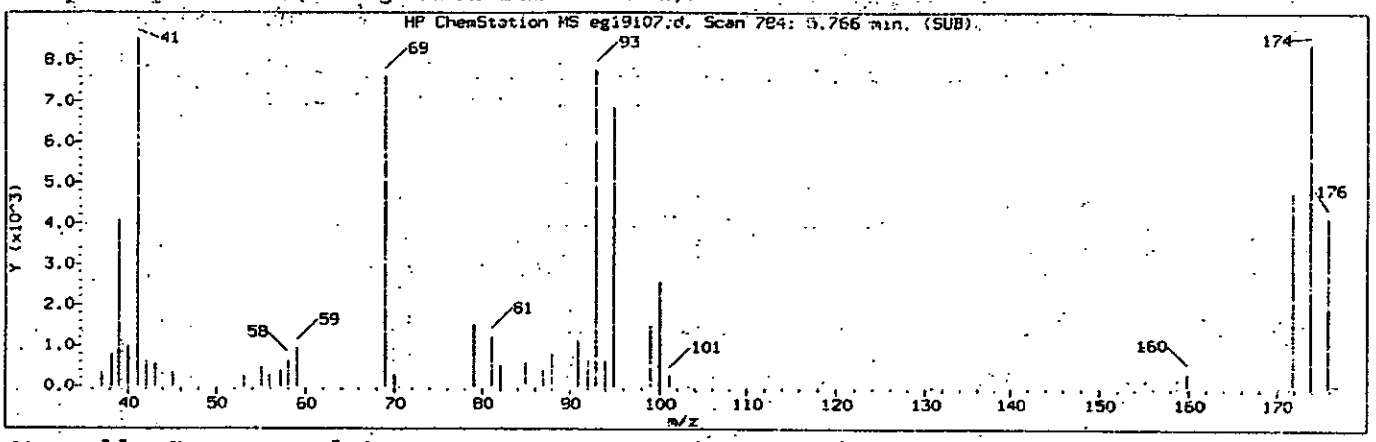
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 53		
Compound Name	: Cyclohexane		
Scan Number	: 571		
Retention Time (minutes)	: 4.468		
Quant Ion	: 56.00		
Area	: 51614		
On-column Amount (ng)	: 3.9423		
Integration start scan	: 558	Integration stop scan:	618
Y at integration start	: 0	Y at integration end:	0

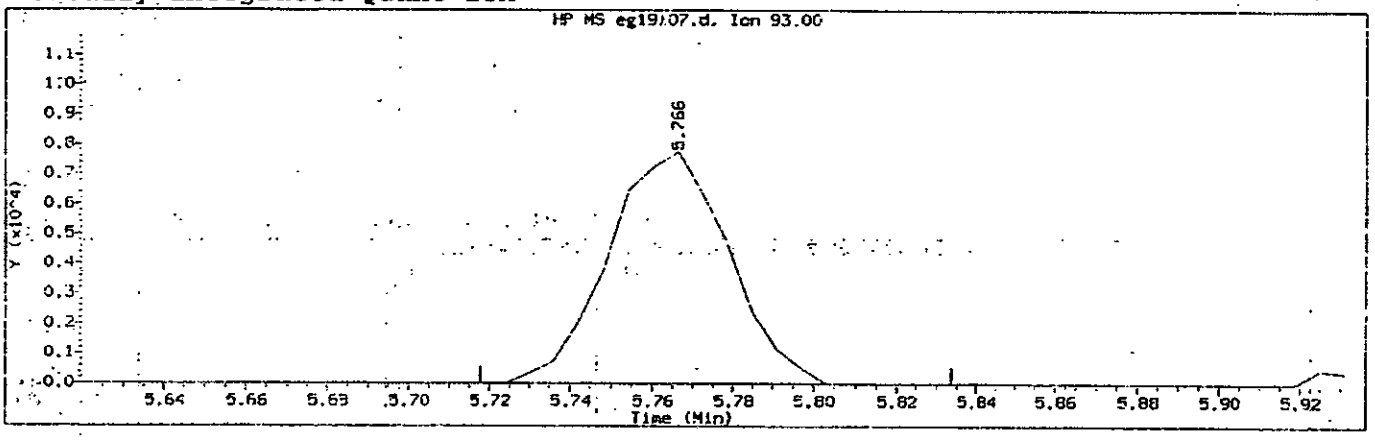
PTL86 0362

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 78		
Compound Name	: Dibromomethane		
Scan Number	: 784		
Retention Time (minutes)	: 5.766		
Quant Ion	: 93.00		
Area (flag)	: 15896M		
On-Column Amount (ng)	: 3.8687		
Integration start scan	: 775	Integration stop scan:	794
Y at integration start	: 0	Y at integration end:	0

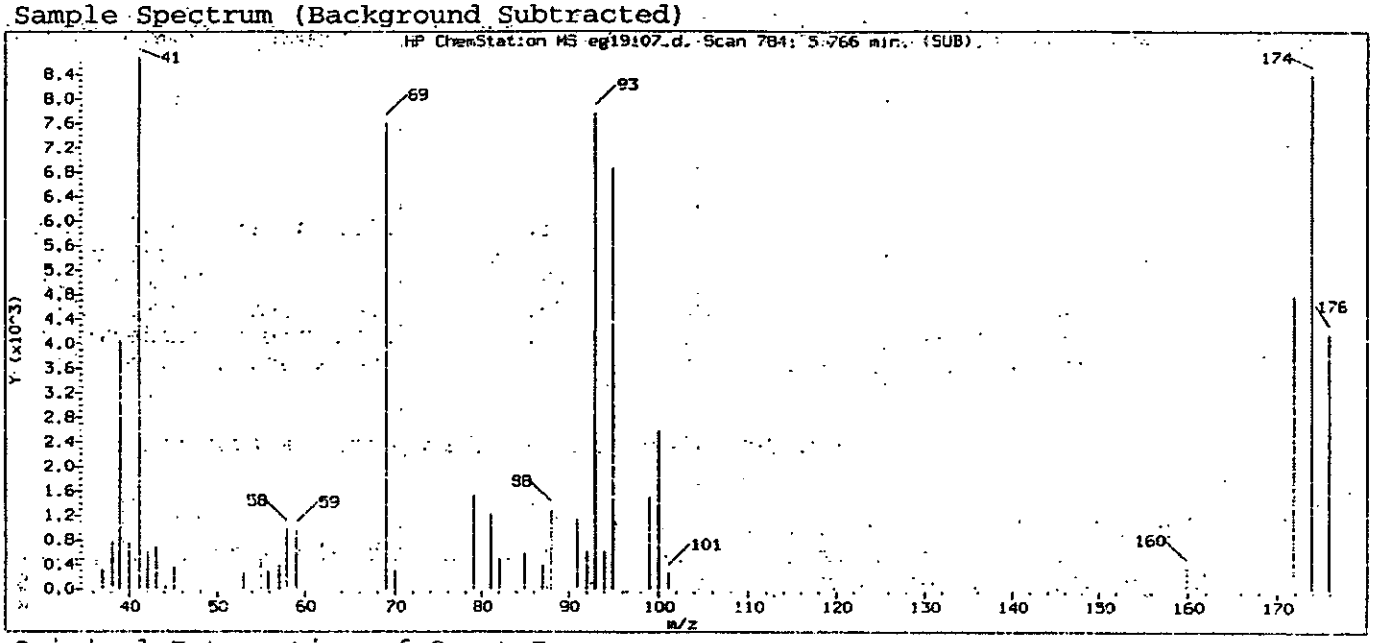
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

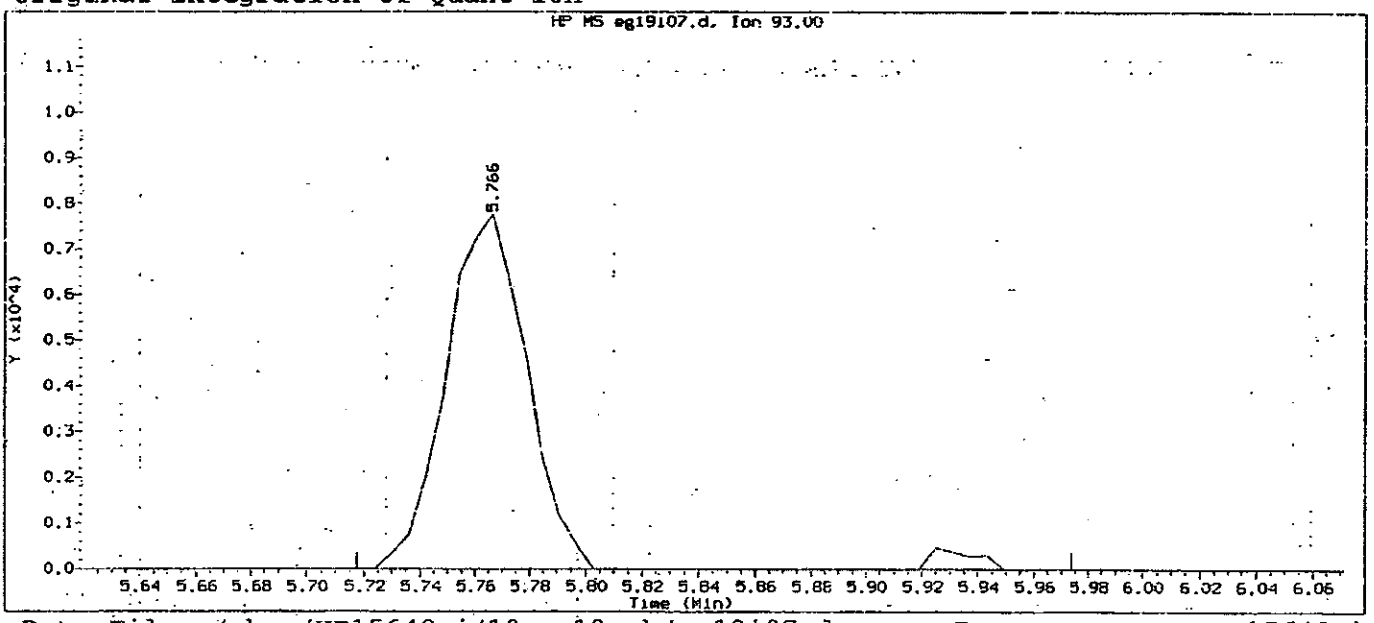
GC/MS audit/management approval [signature] 8/20/10

PTL06 0363

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

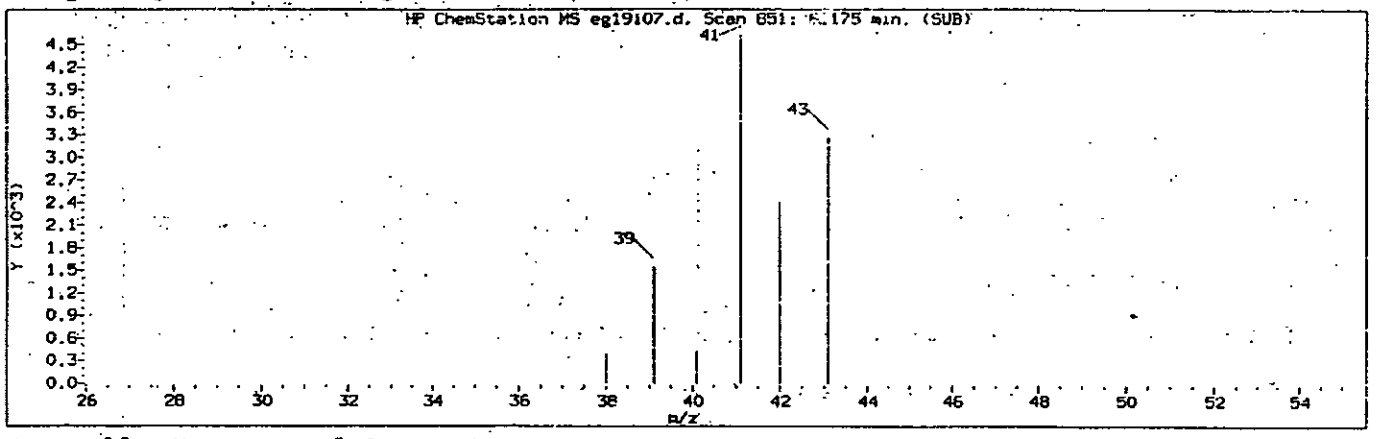
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 78
Compound Name : Dibromomethane
Scan Number : 784
Retention Time (minutes): 5.766
Quant Ion : 93.00
Area : 16423
On-column Amount (ng) : 3.9142
Integration start scan : 775 Integration stop scan: 817
Y at integration start : 0 Y at integration end: 0

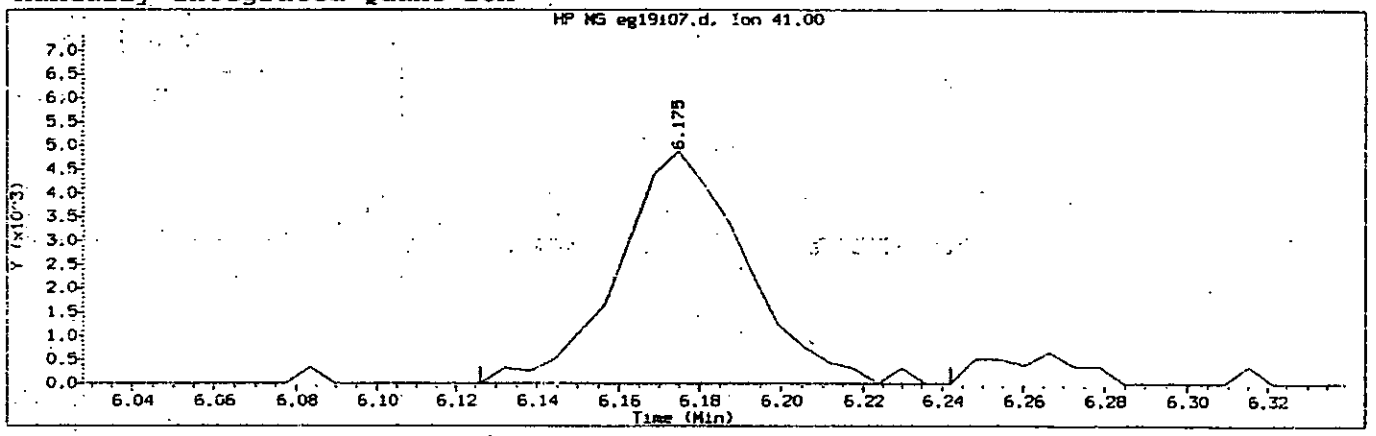
PTL06 0364

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 82		
Compound Name	: 2-Nitropropane		
Scan Number	: 851		
Retention Time (minutes)	: 6.175		
Quant Ion	: 41.00		
Area (flag)	: 10649M		
On-Column Amount (ng)	: 7.6996		
Integration start scan	: 842	Integration stop scan:	861
Y at integration start	: 0	Y at integration end:	0

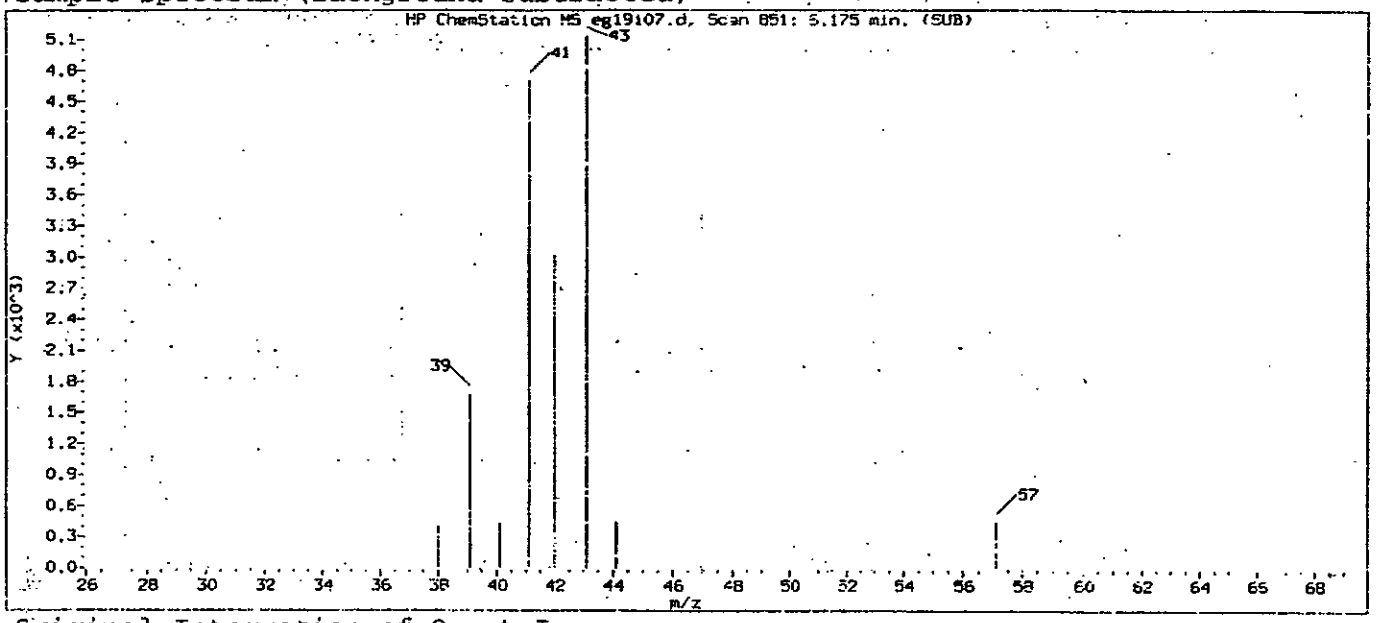
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

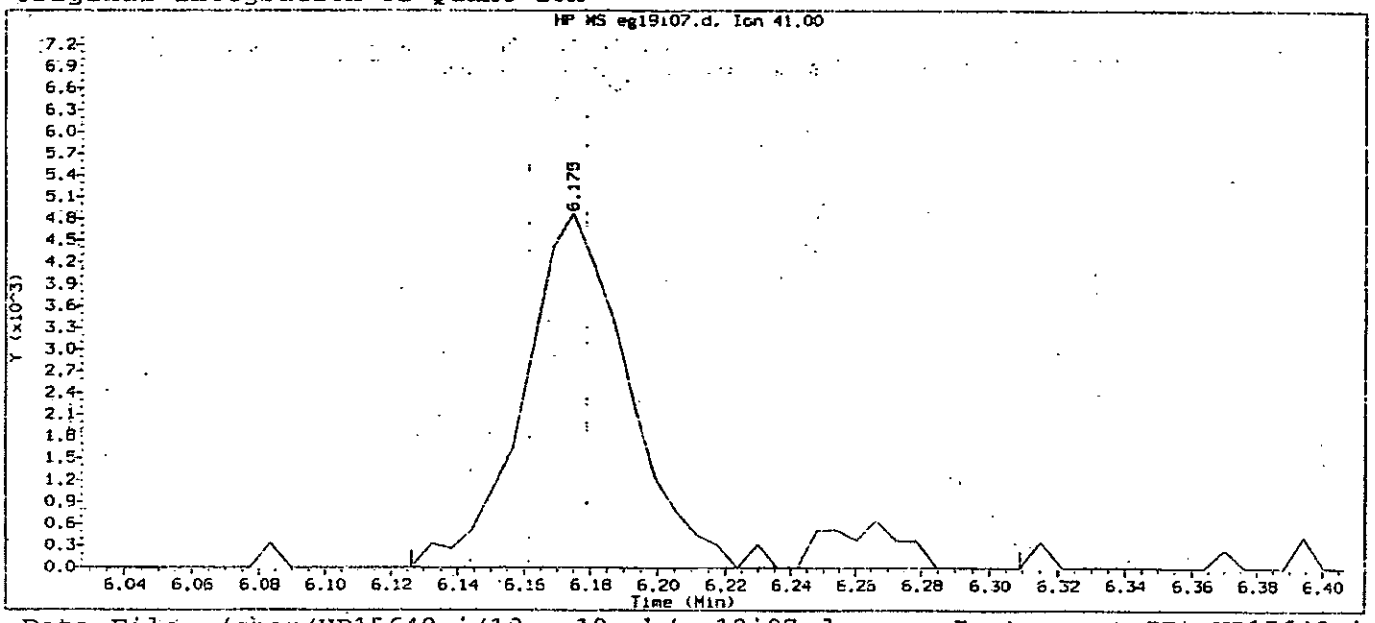
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0365

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

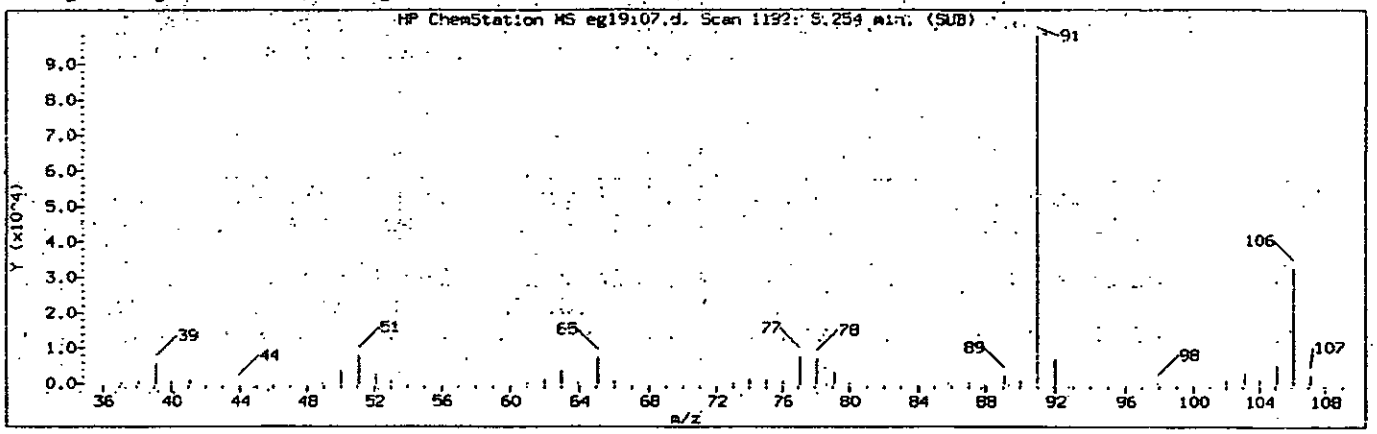
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 82		
Compound Name	: 2-Nitropropane		
Scan Number	: 851		
Retention Time (minutes)	: 6.175		
Quant Ion	: 41.00		
Area	: 11672		
On-column Amount (ng)	: 7.6214		
Integration start scan	: 842	Integration stop scan:	872
Y at integration start	: 0	Y at integration end:	0

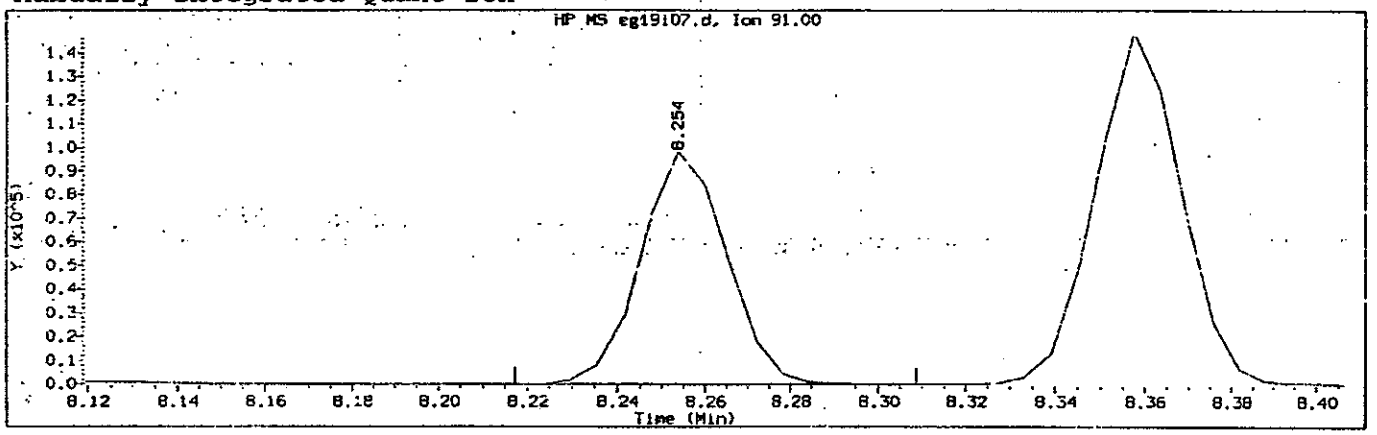
PTL06 0366

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

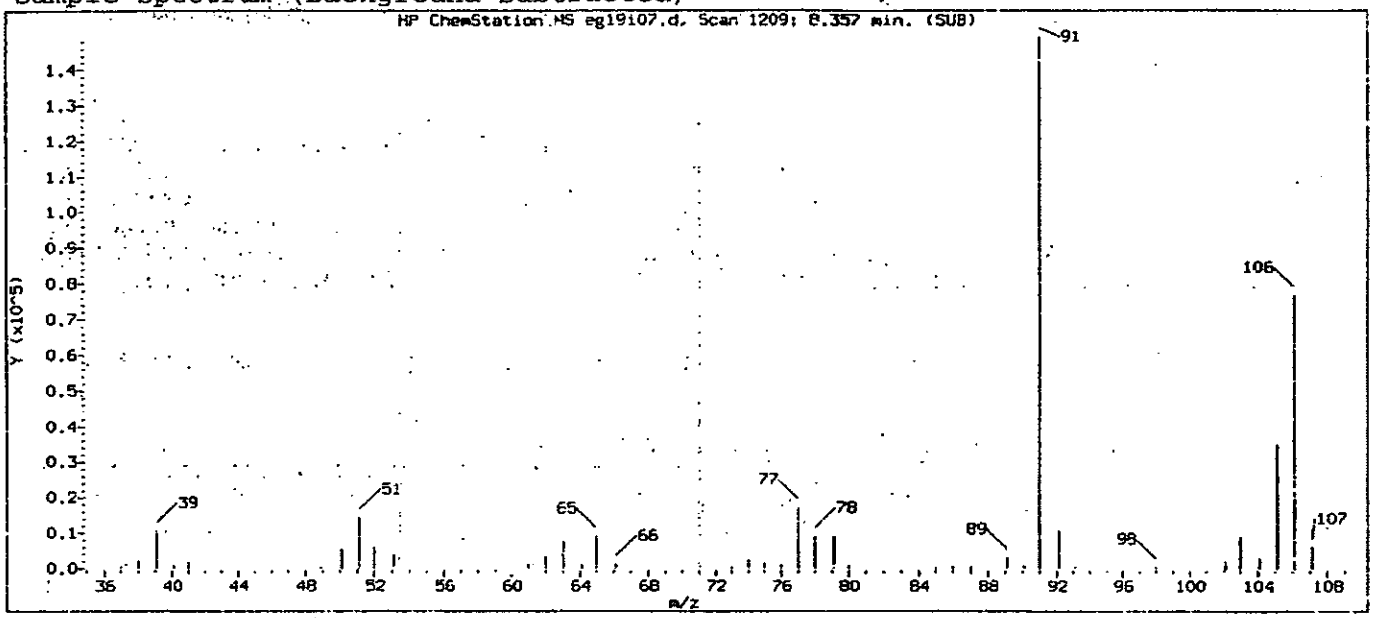
Compound Number	: 107
Compound Name	: Ethylbenzene
Scan Number	: 1192
Retention Time (minutes)	: 8.254
Quant Ion	: 91.00
Area (flag)	: 134156MA
On-Column Amount (ng)	: 3.8070
Integration start scan	: 1185 Integration stop scan: 1200
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration: improper integration

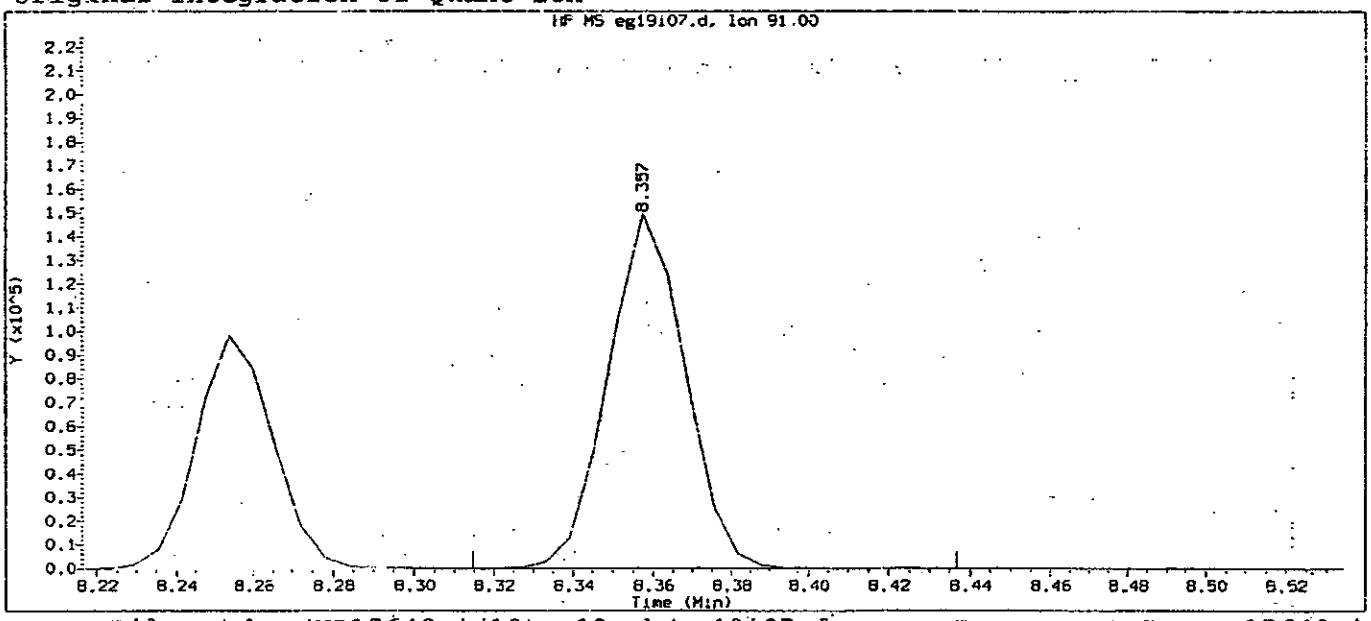
Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: [illegible] 8/20/10 PTL86 8367

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

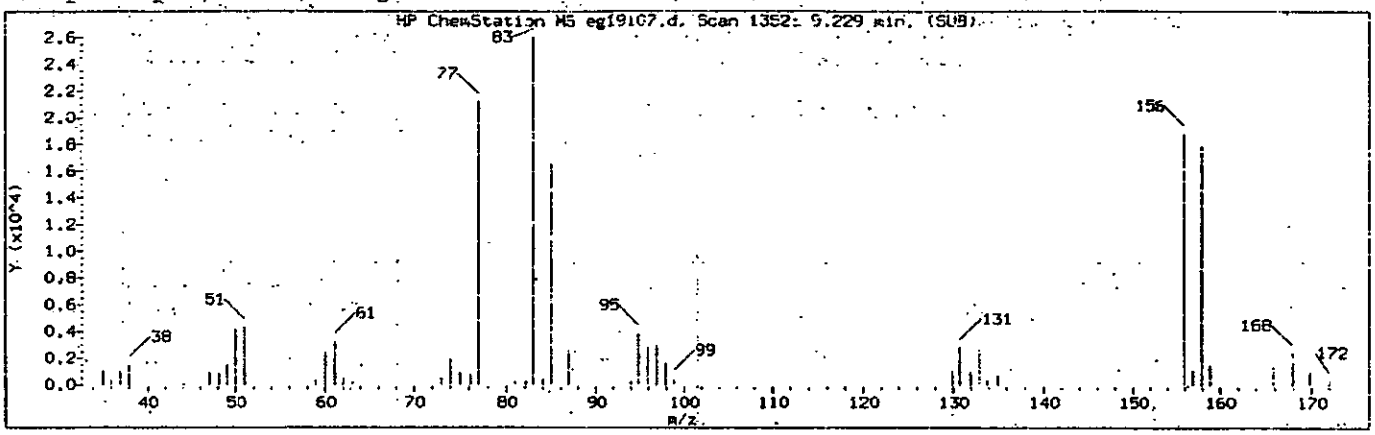
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 107
Compound Name	: Ethylbenzene
Scan Number	: 1209
Retention Time (minutes)	: 8.357
Quant Ion	: 91.00
Area	: 201030
On-column Amount (ng)	: 5.2866
Integration start scan	: 1201 Integration stop scan: 1221
Y at integration start	: 0 Y at integration end: 0

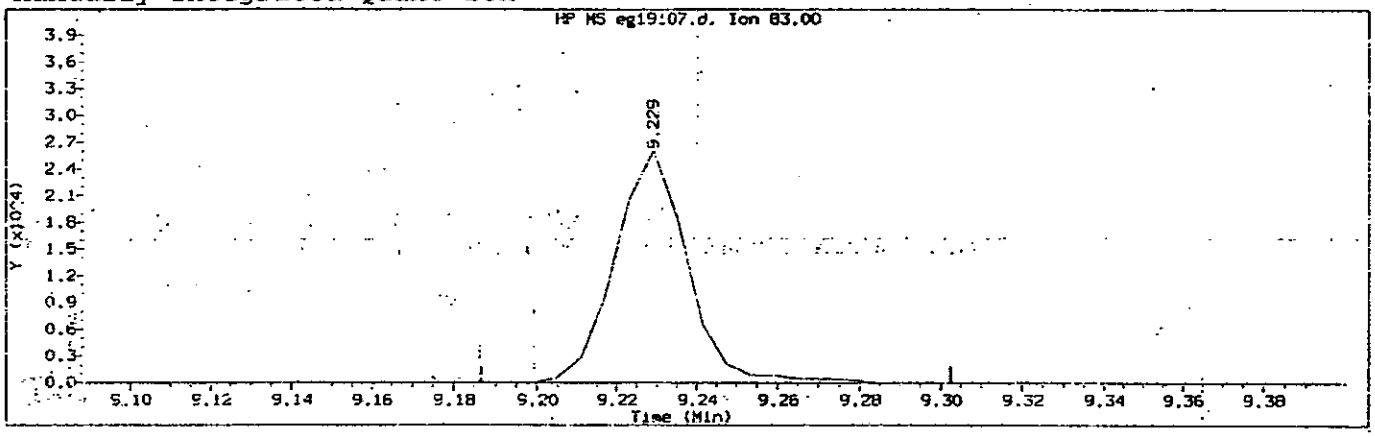
PTL86 0368

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	:	119
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	1352
Retention Time (minutes)	:	9.229
Quant Ion	:	83.00
Area (flag)	:	32695M
On-Column Amount (ng)	:	3.7307
Integration start scan	:	1344 Integration stop scan: 1363
Y at integration start	:	0 Y at integration end: 0

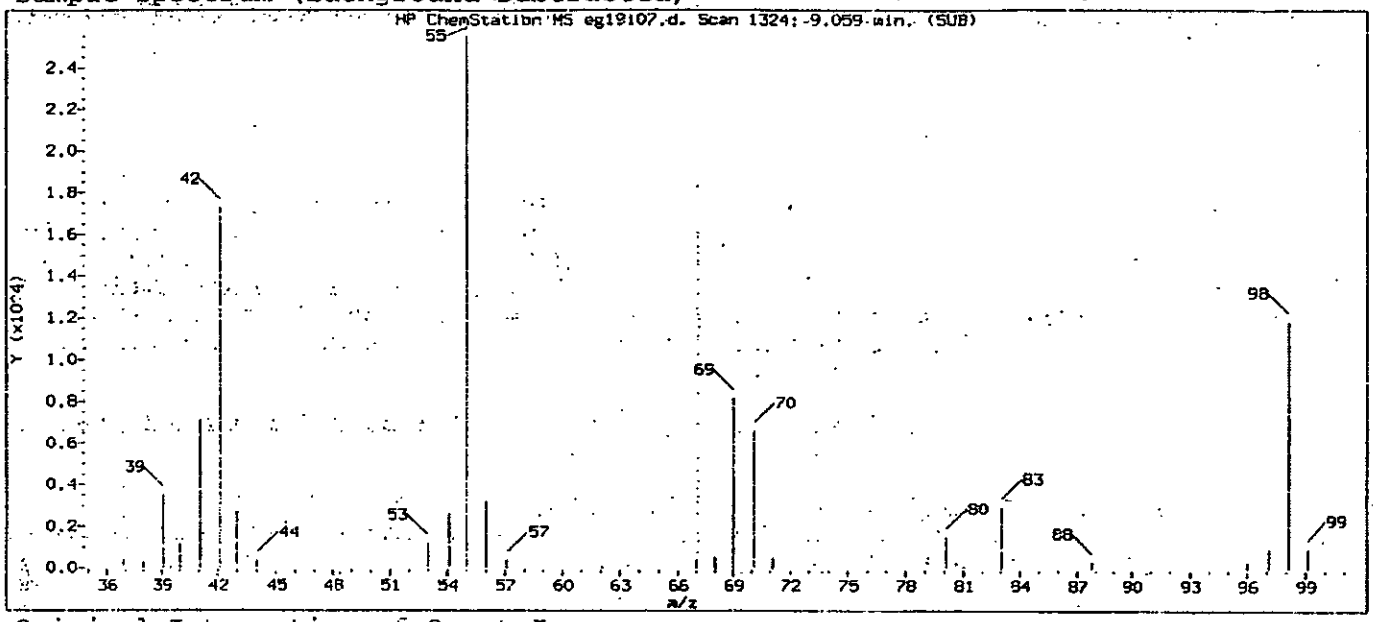
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

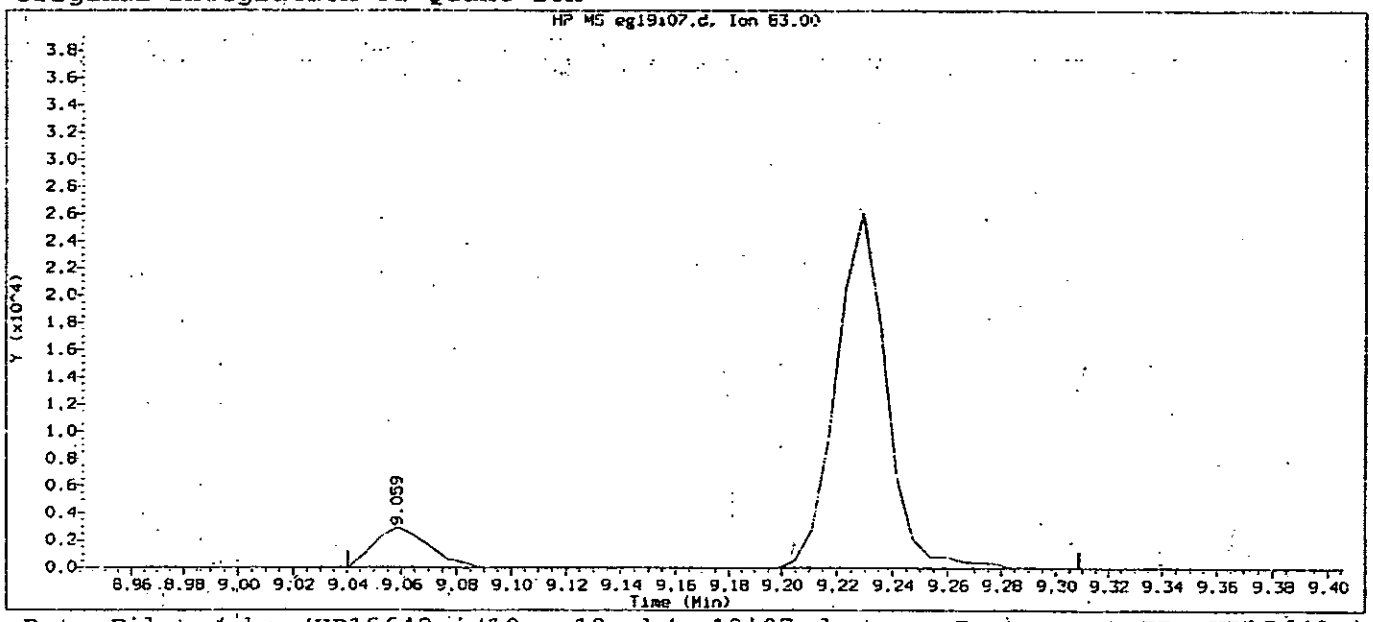
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 8369

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

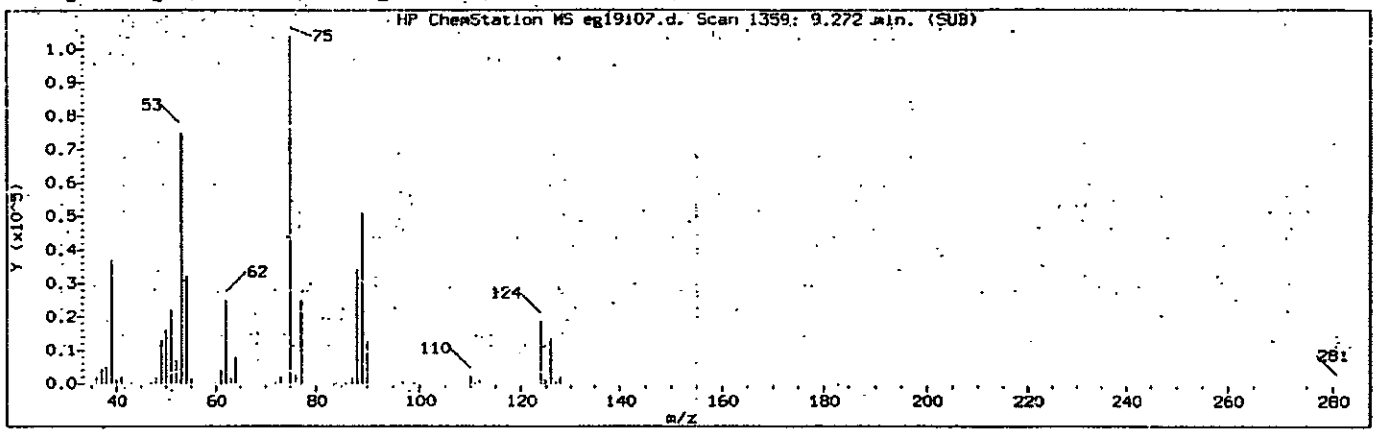
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 119		
Compound Name	: 1,1,2,2-Tetrachloroethane		
Scan Number	: 1324		
Retention Time (minutes)	: 9.059		
Quant Ion	: 83.00		
Area	: 36737		
On-column Amount (ng)	: 4.0629		
Integration start scan	: 1320	Integration stop scan:	1364
Y at integration start	: 0	Y at integration end:	0

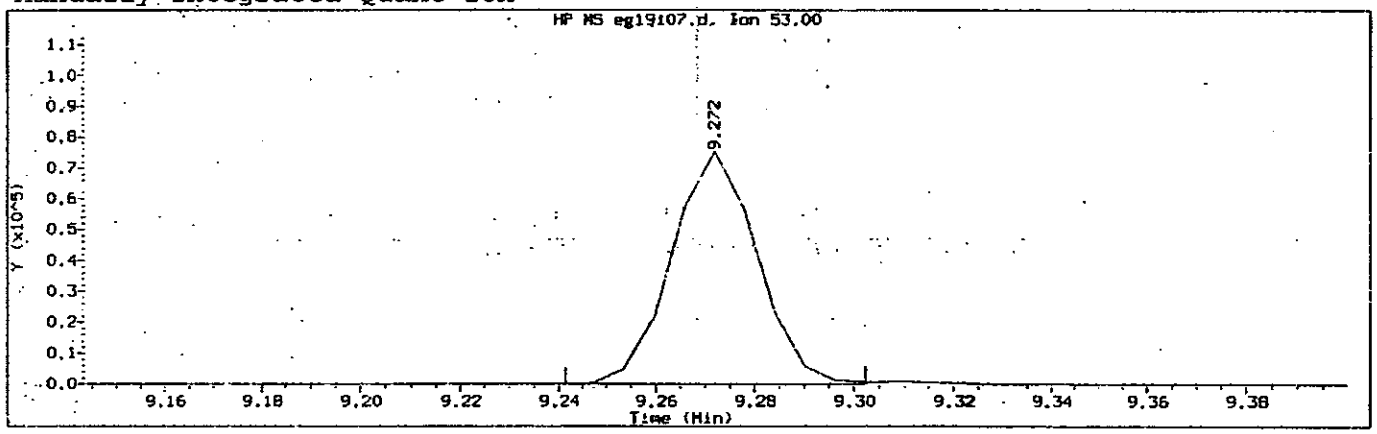
PTL86 0378

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area (flag) : 90166M
On-Column Amount (ng) : 34.3285
Integration start scan : 1353 Integration stop scan: 1363
Y at integration start : 0 Y at integration end: 0

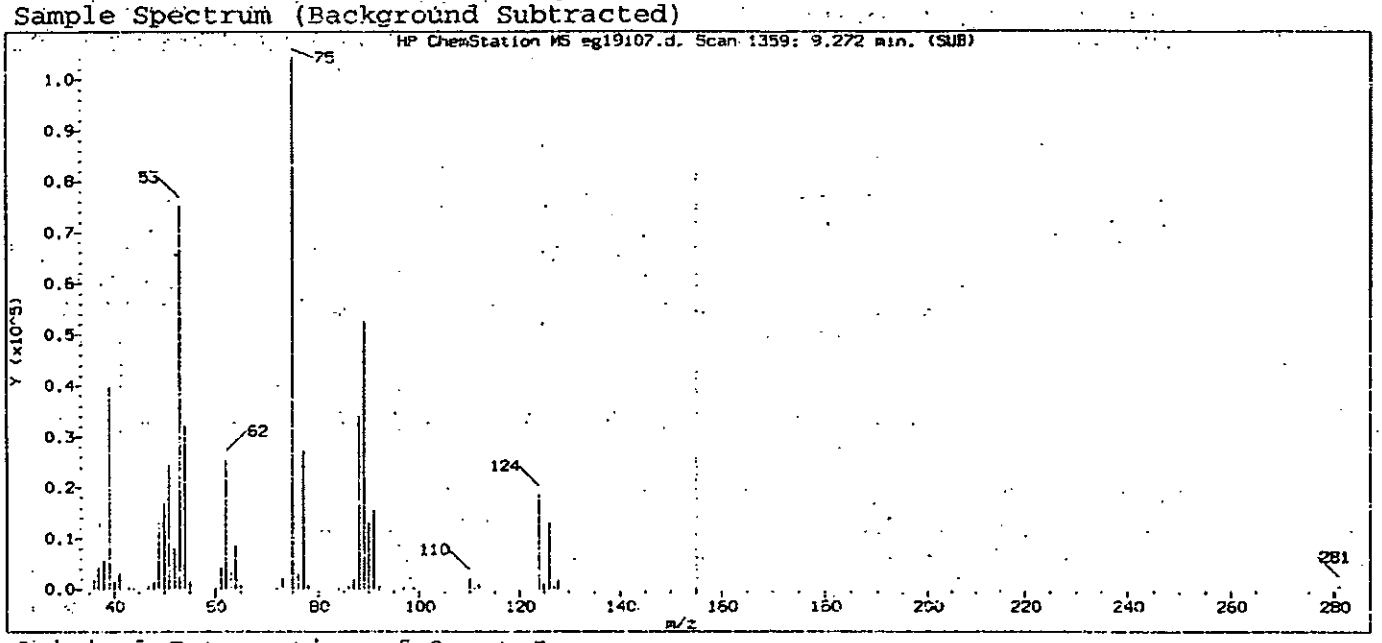
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

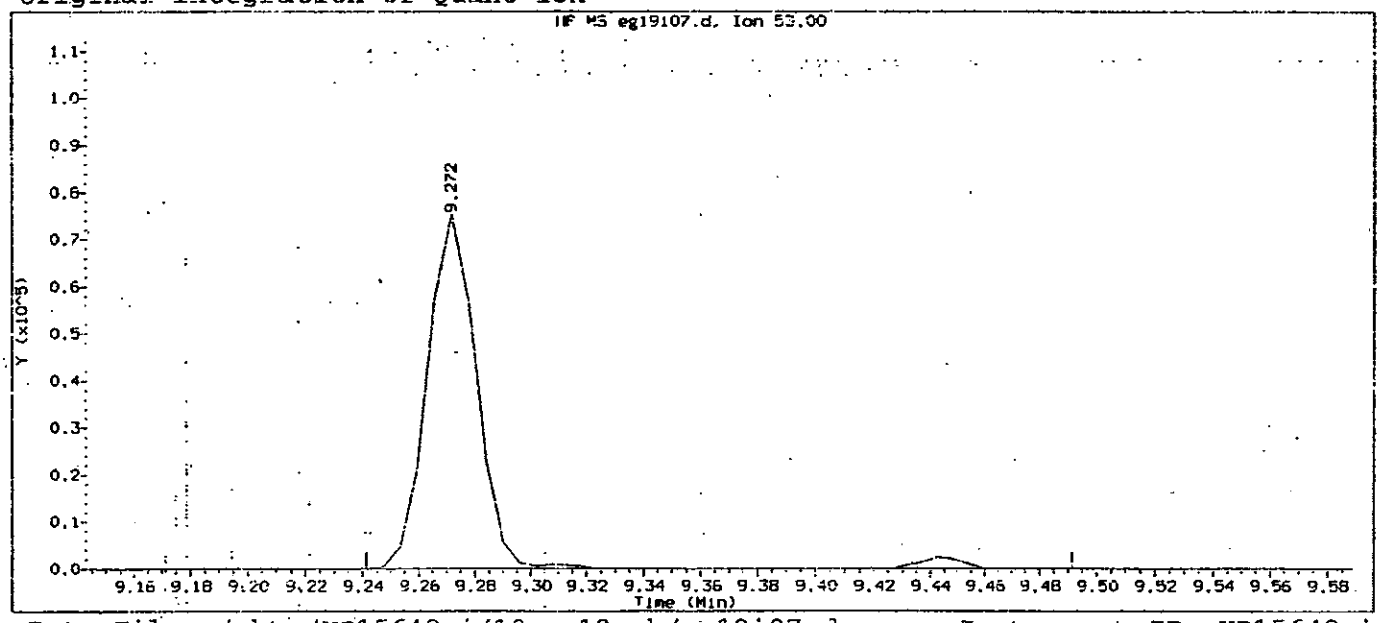
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0371

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

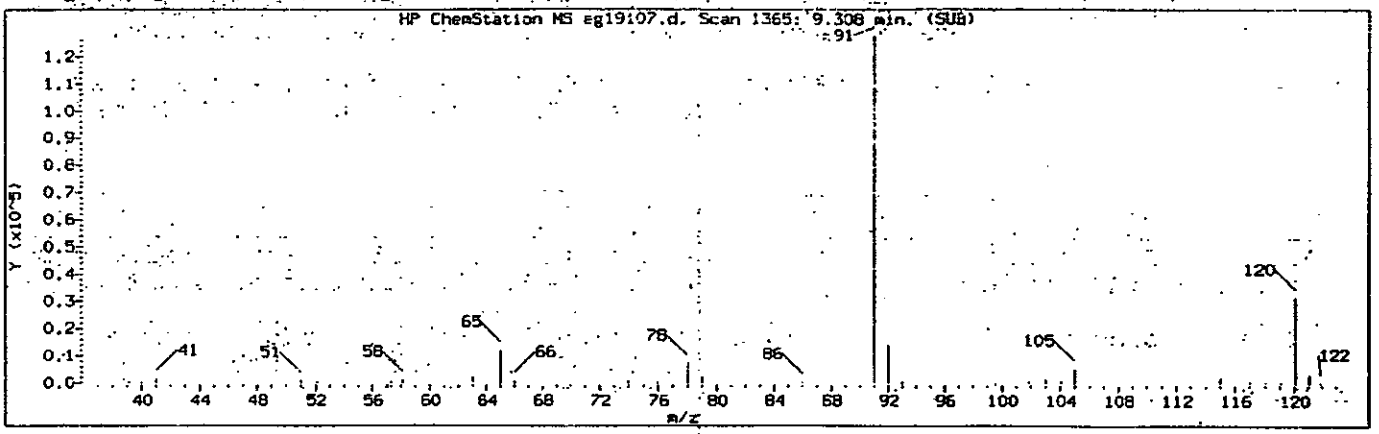
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 93569
On-column Amount (ng) : 34.7877
Integration start scan : 1353 Integration stop scan: 1394
Y at integration start : 0 Y at integration end: 0

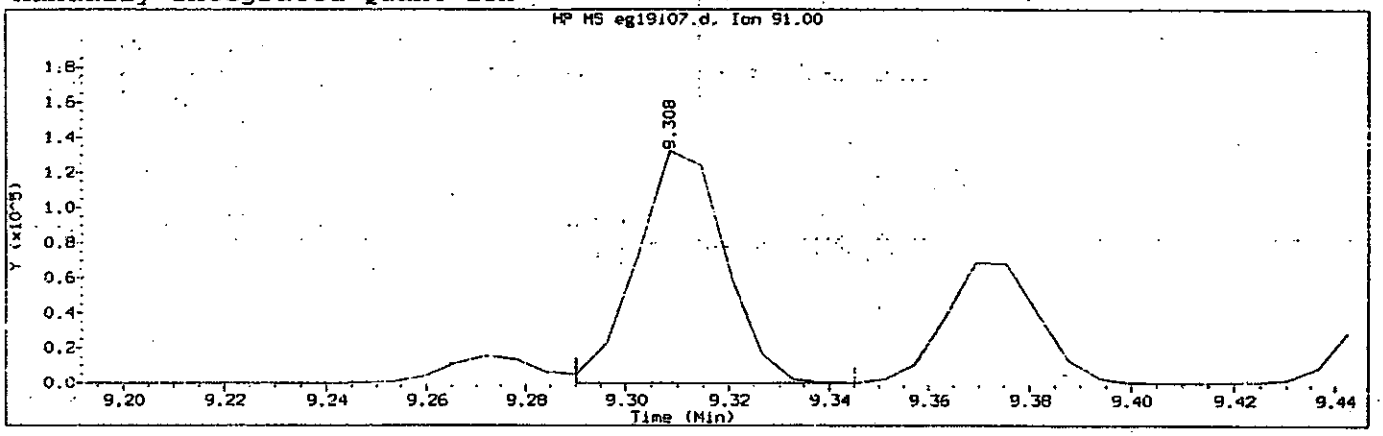
PTL86 0372

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 122
Compound Name	: n-Propylbenzene
Scan Number	: 1365
Retention Time (minutes)	: 9.308
Quant Ion	: 91.00
Area (flag)	: 158849M
On-Column Amount (ng)	: 3.8511
Integration start scan	: 1361 Integration stop scan: 1370
Y at integration start	: 0 Y at integration end: 0

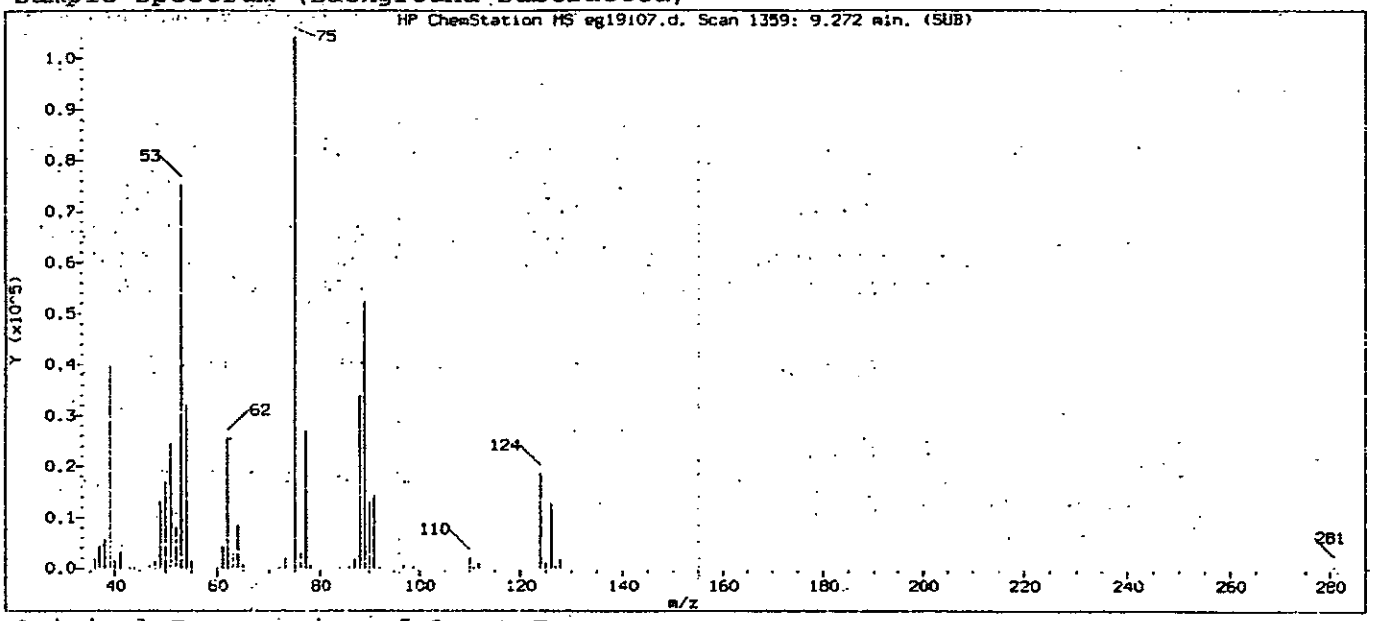
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

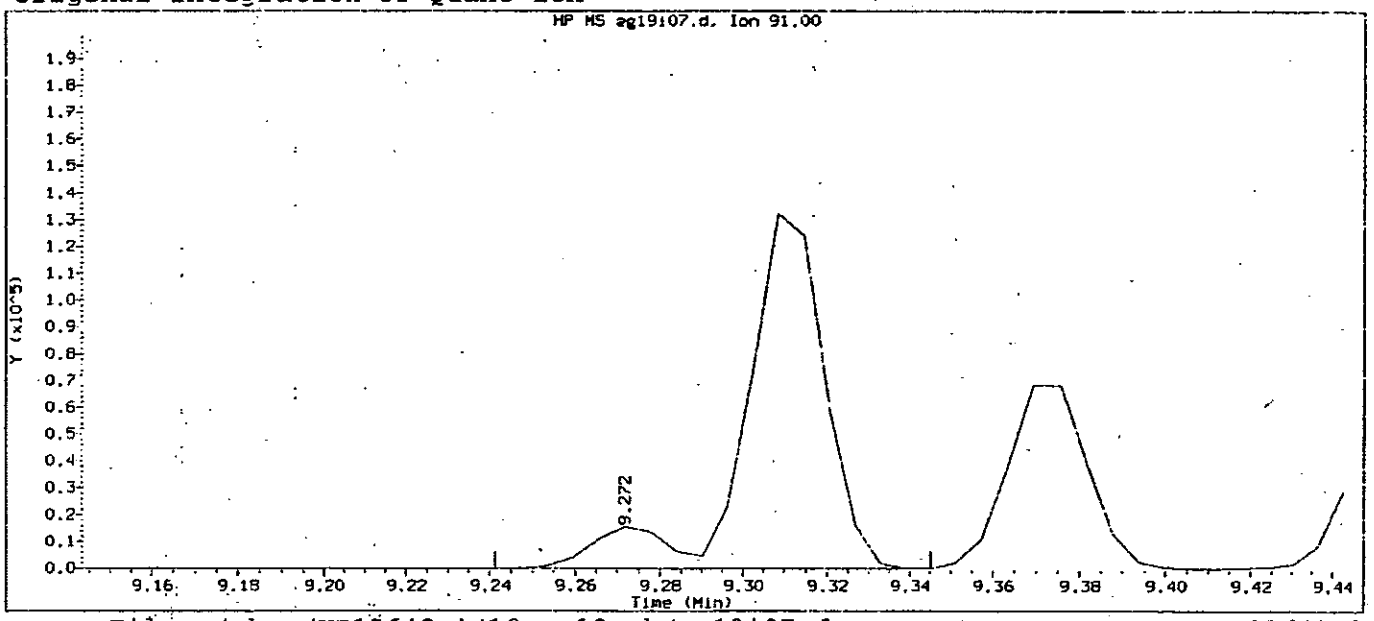
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 8373

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

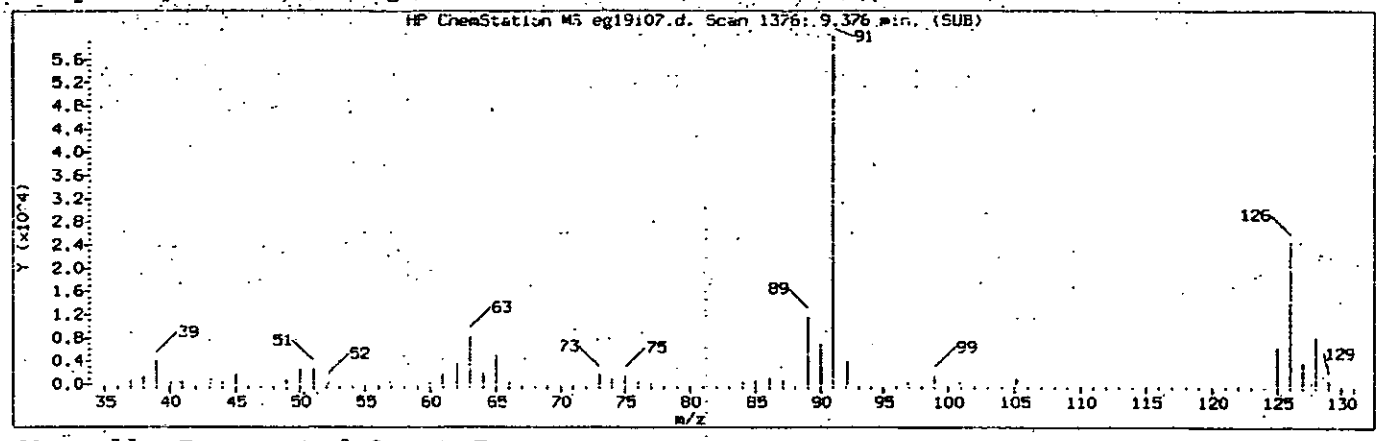
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 122		
Compound Name	: n-Propylbenzene		
Scan Number	: 1359		
Retention Time (minutes)	: 9.272		
Quant Ion	: 91.00		
Area	: 177887		
On-column Amount (ng)	: 3.4695		
Integration start scan	: 1353	Integration stop scan:	1370
Y at integration start	: 0	Y at integration end:	0

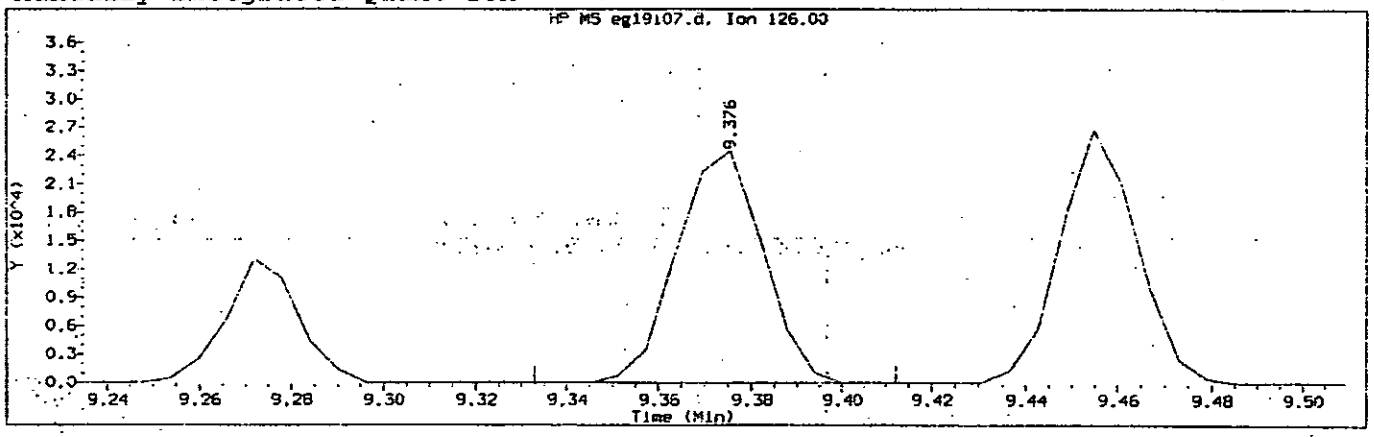
PTL86 8374

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 123
Compound Name	: 2-Chlorotoluene
Scan Number	: 1376
Retention Time (minutes)	: 9.376
Quant Ion	: 126.00
Area (flag)	: 31595M
On-Column Amount (ng)	: 3.8413
Integration start scan	: 1368 Integration stop scan: 1381
Y at integration start	: 0 Y at integration end: 0

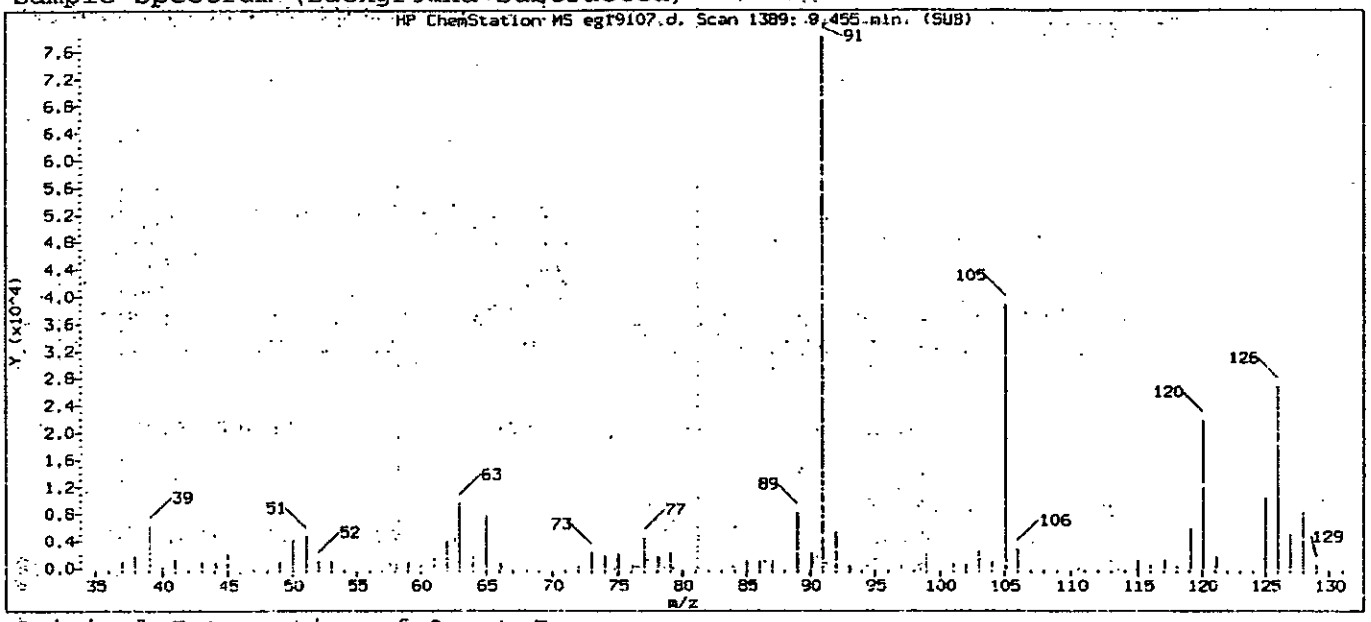
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

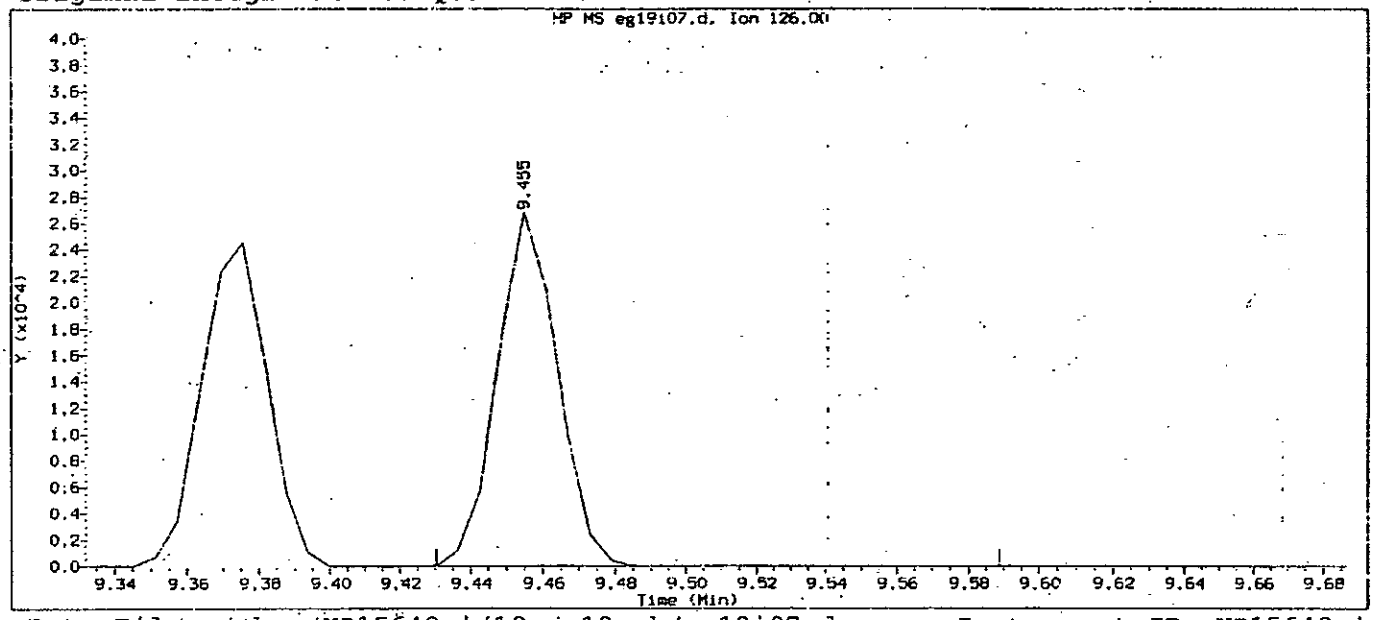
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0375

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

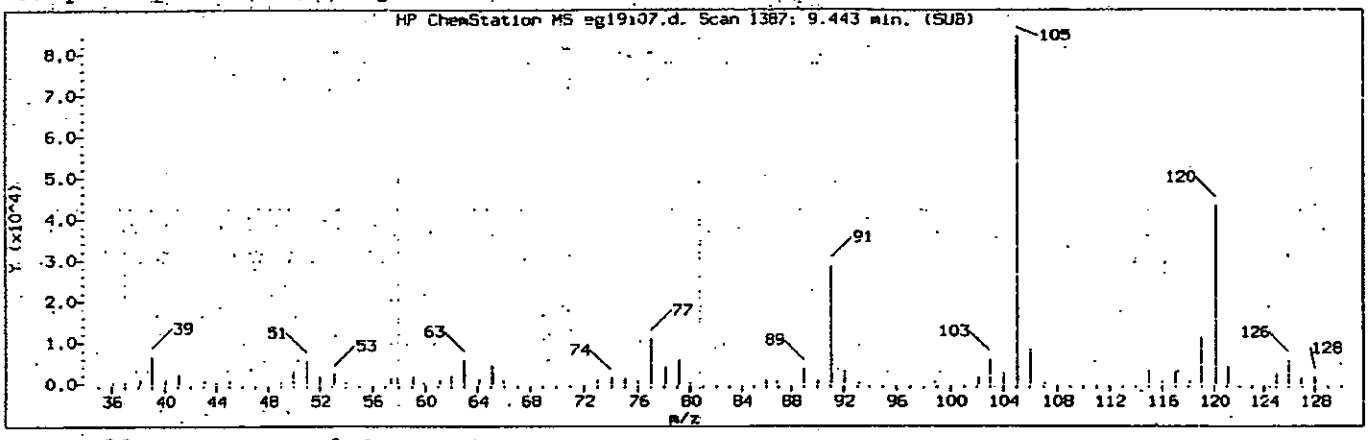
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 123
Compound Name : 2-Chlorotoluene
Scan Number : 1389
Retention Time (minutes): 9.455
Quant Ion : 126.00
Area : 31148
On-column Amount (ng) : 3.7956
Integration start scan : 1384 Integration stop scan: 1410
Y at integration start : 0 Y at integration end: 0

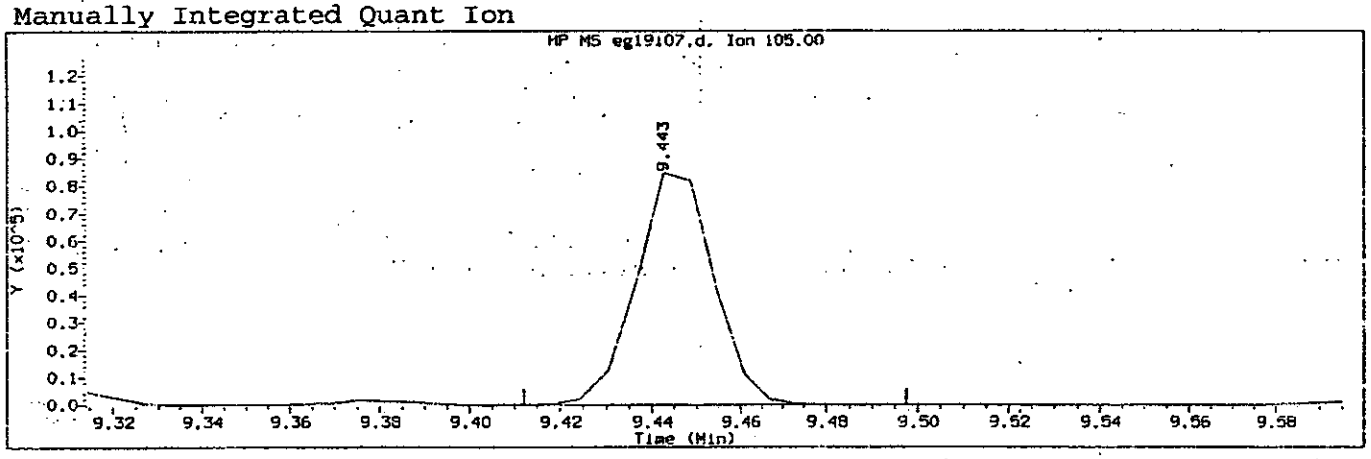
PTL86 0376

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	:	124
Compound Name	:	1,3,5-Trimethylbenzene
Scan Number	:	1387
Retention Time (minutes)	:	9.443
Quant Ion	:	105.00
Area (flag)	:	102553M
On-Column Amount (ng)	:	3.6404
Integration start scan	:	1381 Integration stop scan: 1395
Y at integration start	:	0 Y at integration end: 0

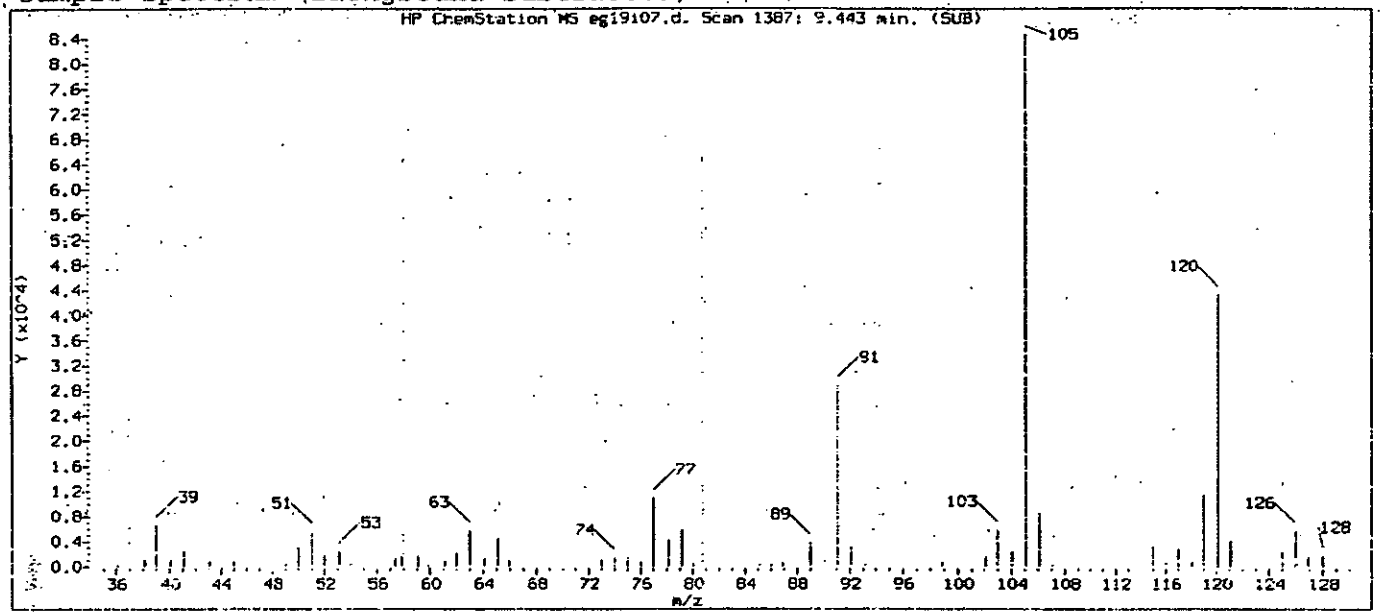
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

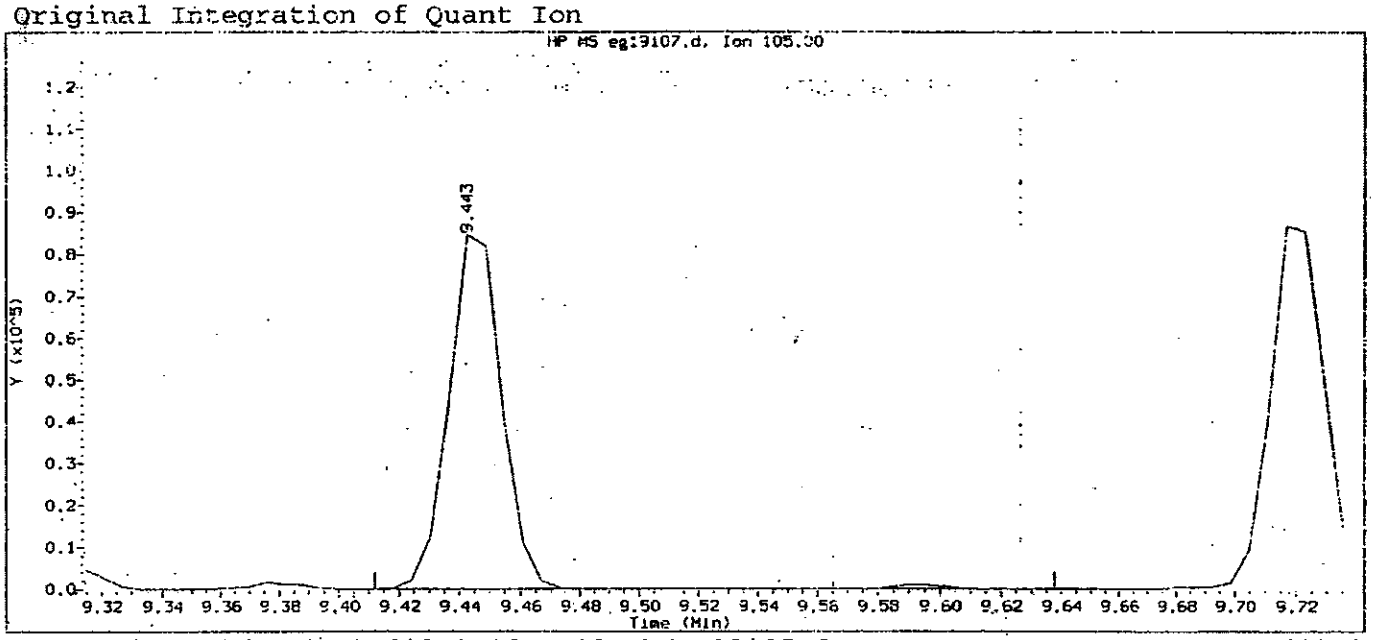
GC/MS audit/management approval: 8/20/10

PTL06 0377

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

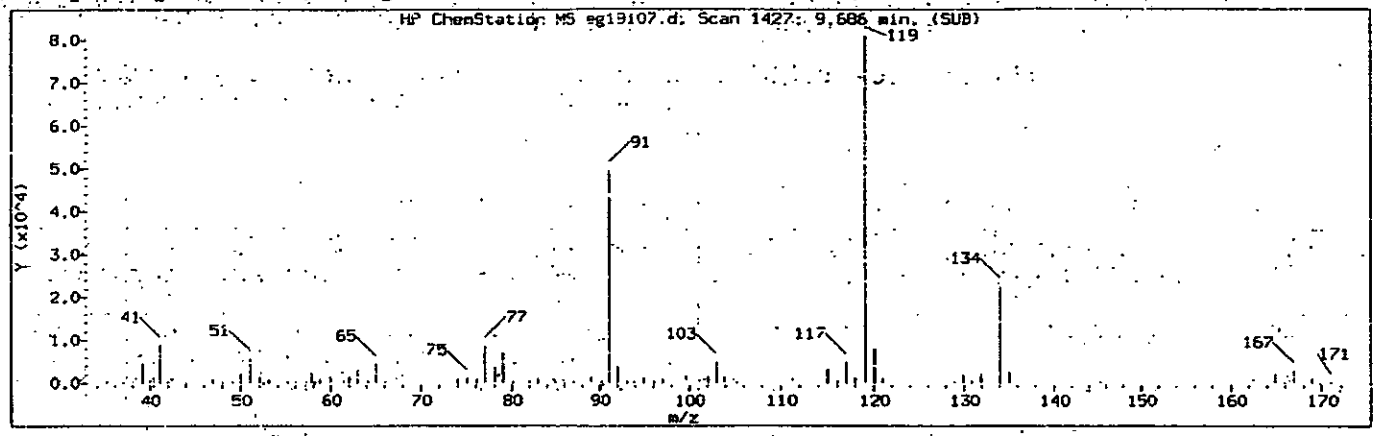
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 124
Compound Name : 1,3,5-Trimethylbenzene
Scan Number : 1387
Retention Time (minutes): 9.443
Quant Ion : 105.00
Area : 103705
On-column Amount (ng) : 3.6640
Integration start scan : 1381 Integration stop scan: 1418
Y at integration start : 0 Y at integration end: 0

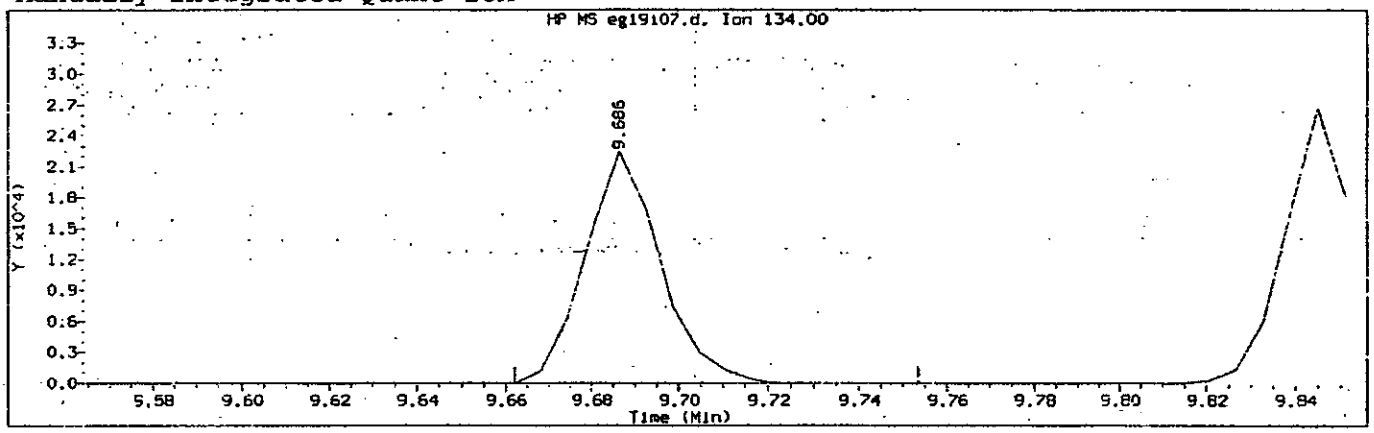
PTL86 0378

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 127		
Compound Name	: tert-Butylbenzene		
Scan Number	: 1427		
Retention Time (minutes)	: 9.686		
Quant Ion	: 134.00		
Area (flag)	: 26956M		
On-Column Amount (ng)	: 3.8464		
Integration start scan	: 1422	Integration stop scan:	1437
Y at integration start	: 0	Y at integration end:	0

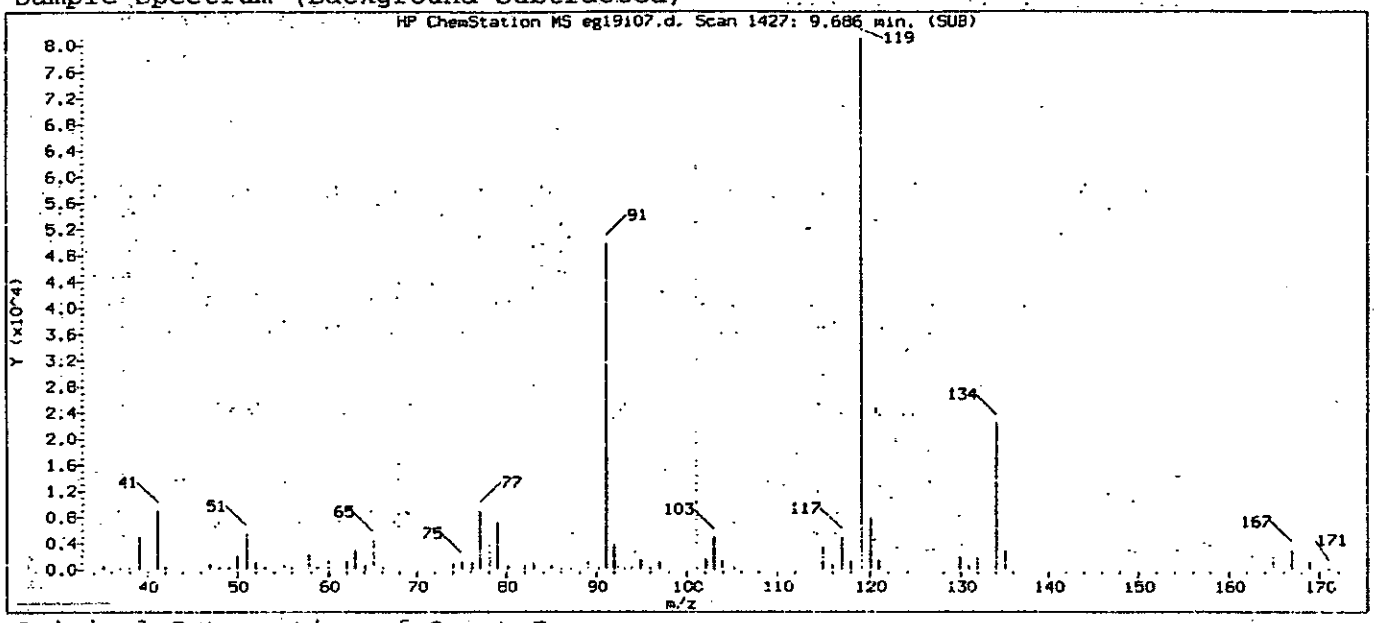
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

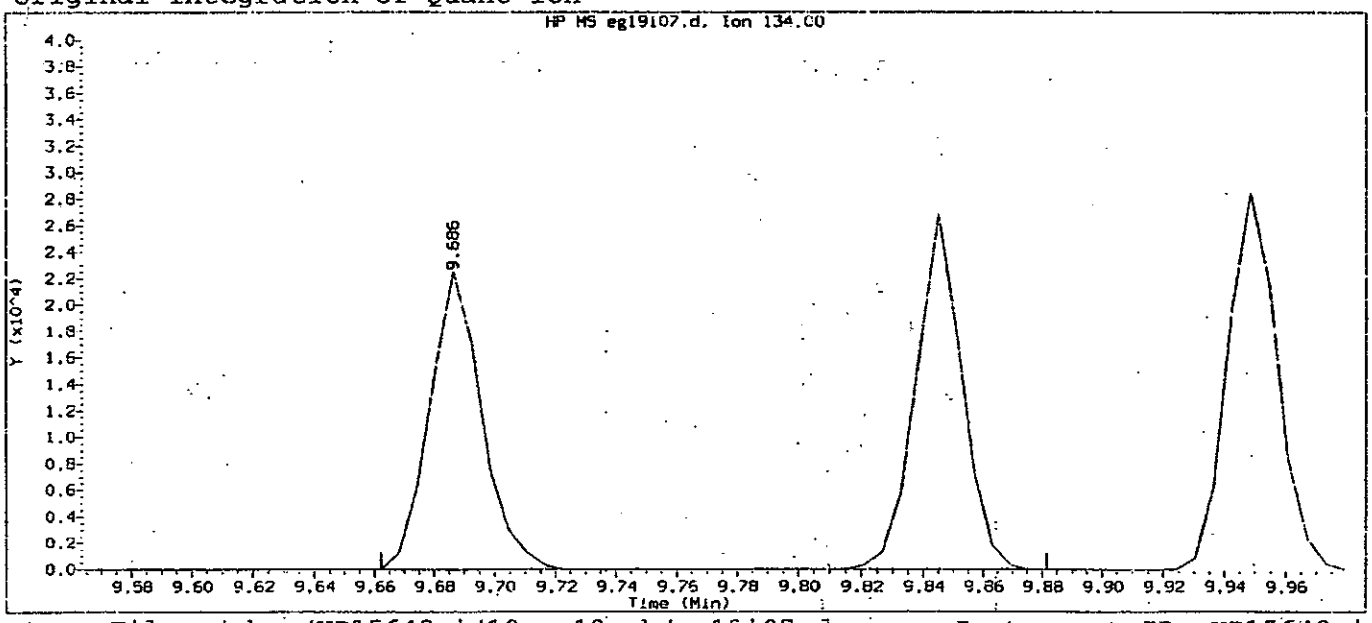
GC/MS audit/management approval: 8/20/10

PTL86 2379

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

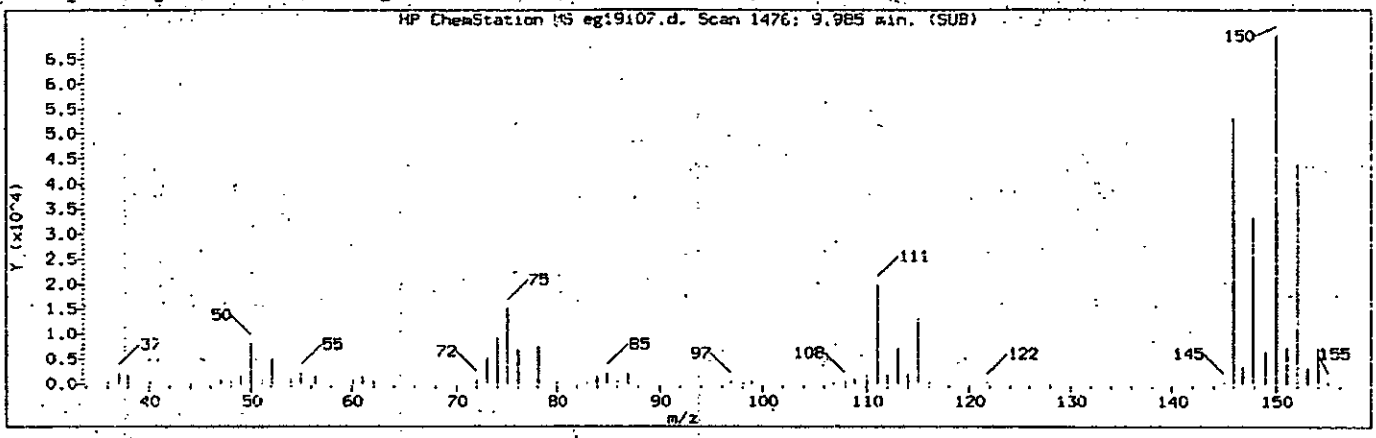
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 127
Compound Name : tert-Butylbenzene
Scan Number : 1427
Retention Time (minutes): 9.686
Quant Ion : 134.00
Area : 55624
On-column Amount (ng) : 4.1184
Integration start scan : 1422 Integration stop scan: 1458
Y at integration start : 0 Y at integration end: 0

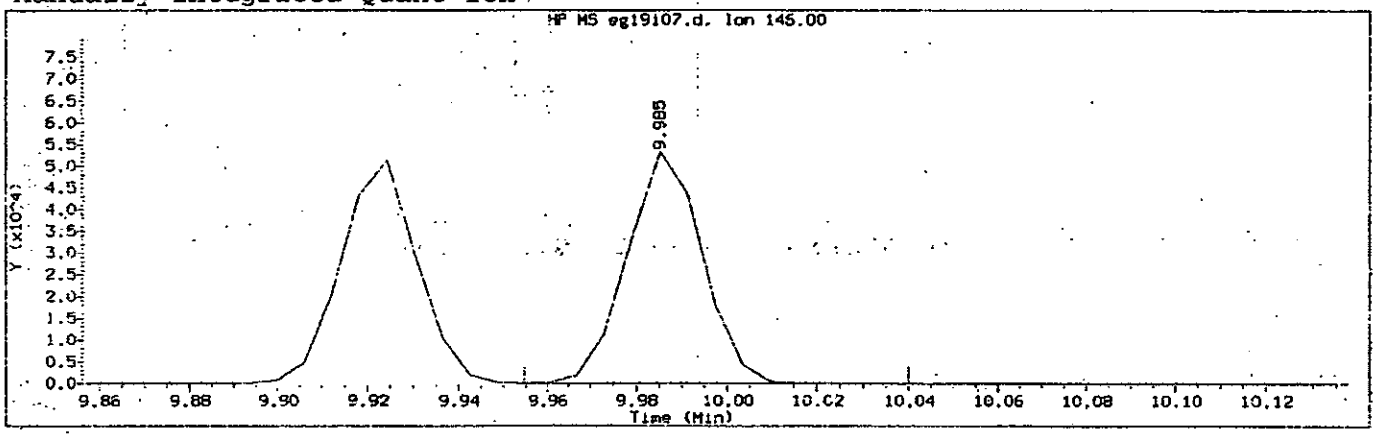
PTL86 0388

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 136
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1476
Retention Time (minutes): 9.985
Quant Ion : 146.00
Area (flag) : 60951M
On-Column Amount (ng) : 3.8656
Integration start scan : 1470 Integration stop scan: 1484
Y at integration start : 0 Y at integration end: 0

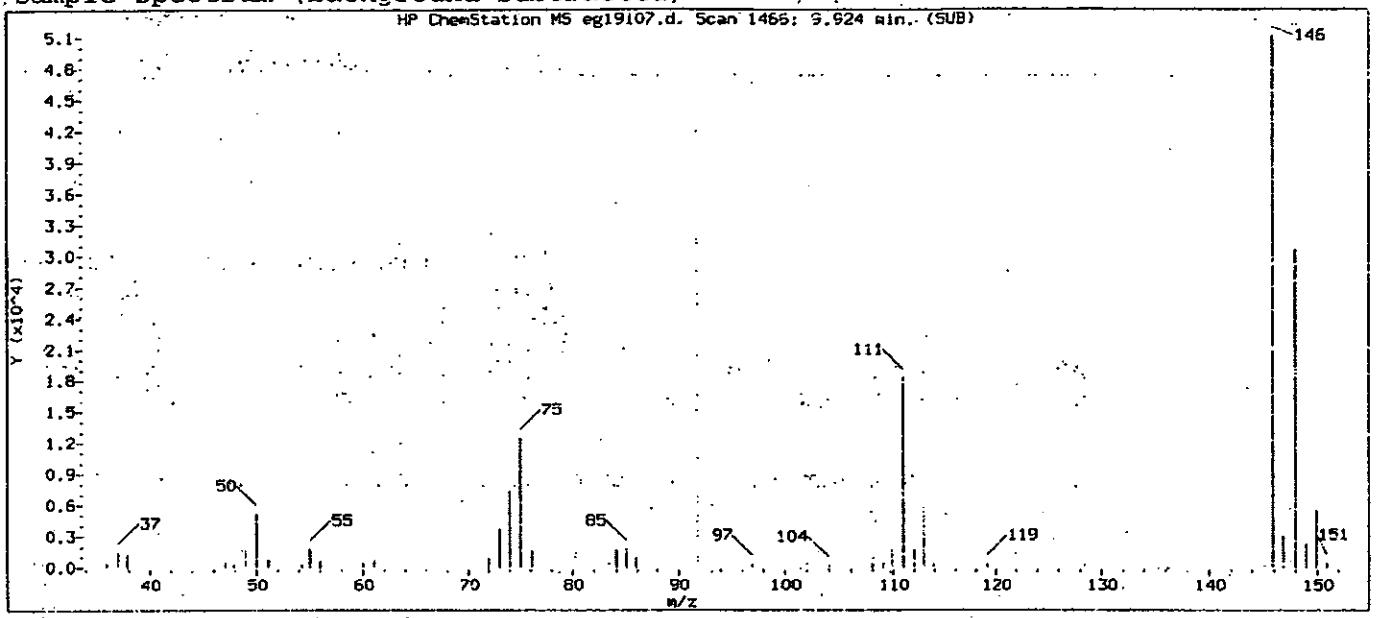
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

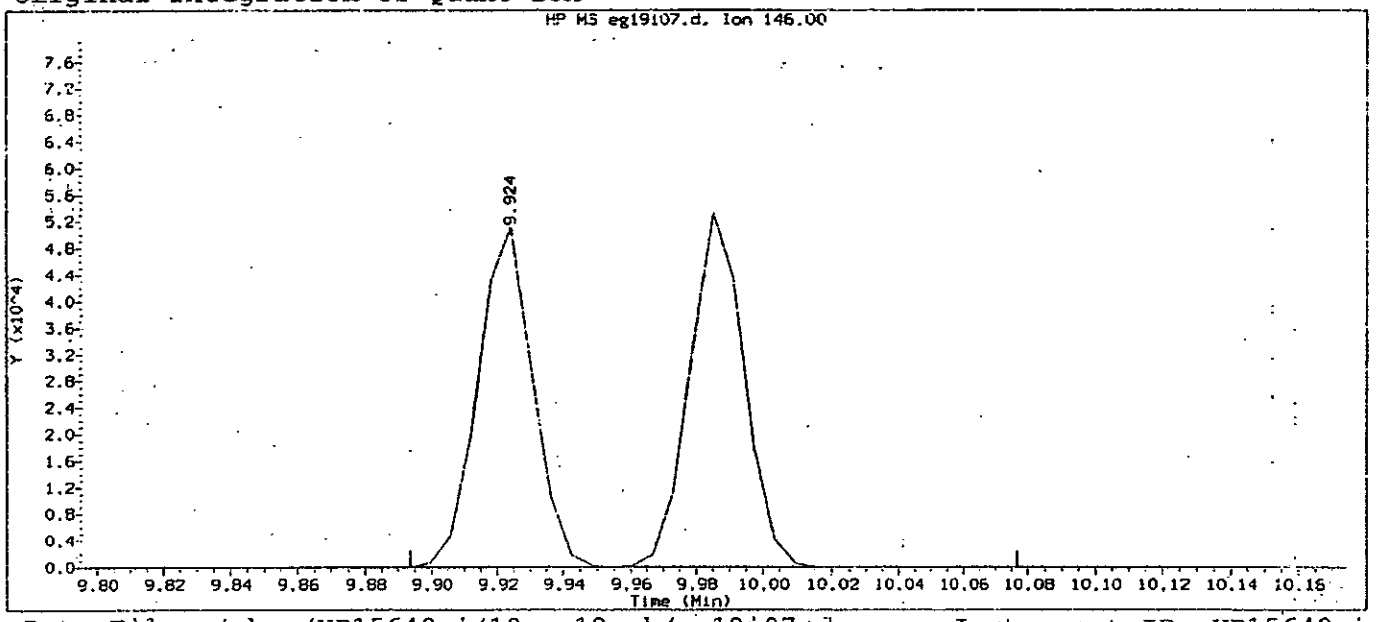
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0381

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

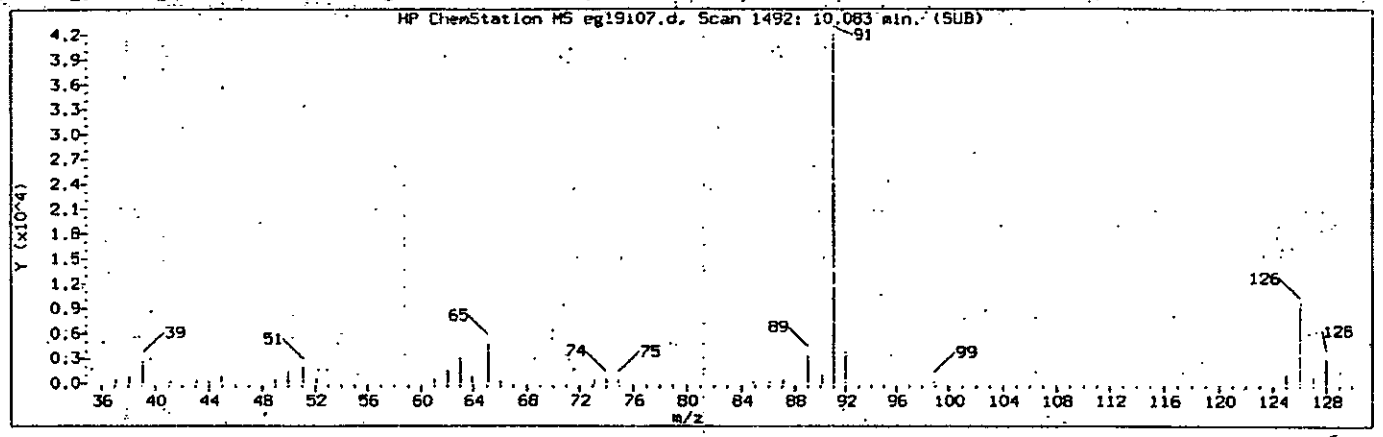
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 136
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1466
Retention Time (minutes): 9.924
Quant Ion : 146.00
Area : 120376
On-column Amount (ng) : 5.7933
Integration start scan : 1460 Integration stop scan: 1490
Y at integration start : 0 Y at integration end: 0

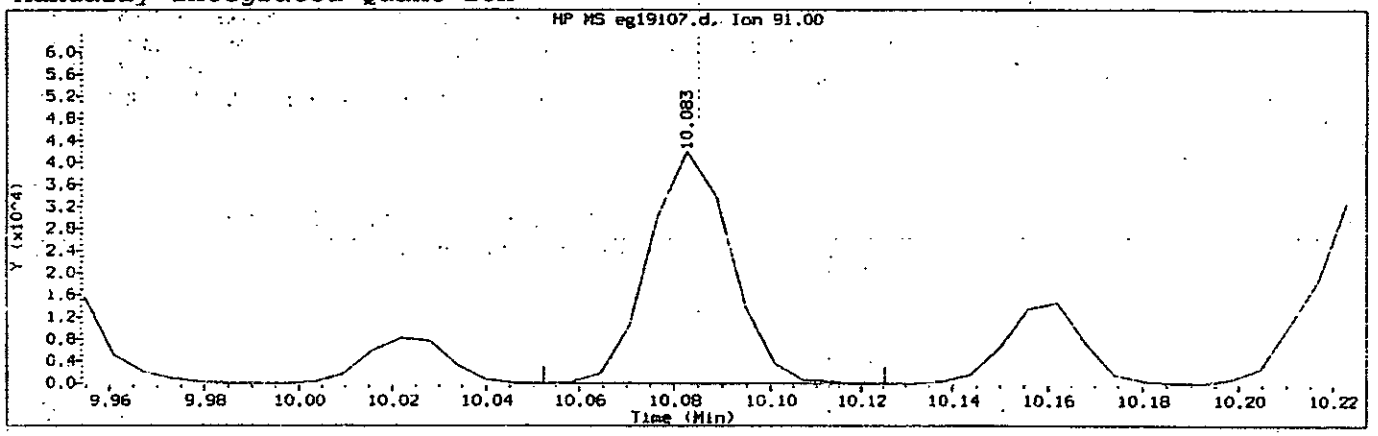
PTL86 0382

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 138		
Compound Name	: Benzyl Chloride		
Scan Number	: 1492		
Retention Time (minutes)	: 10.083		
Quant Ion	: 91.00		
Area (flag)	: 49912M		
On-Column Amount (ng)	: 3.9359		
Integration start scan	: 1486	Integration stop scan:	1498
Y at integration start	: 0	Y at integration end:	0

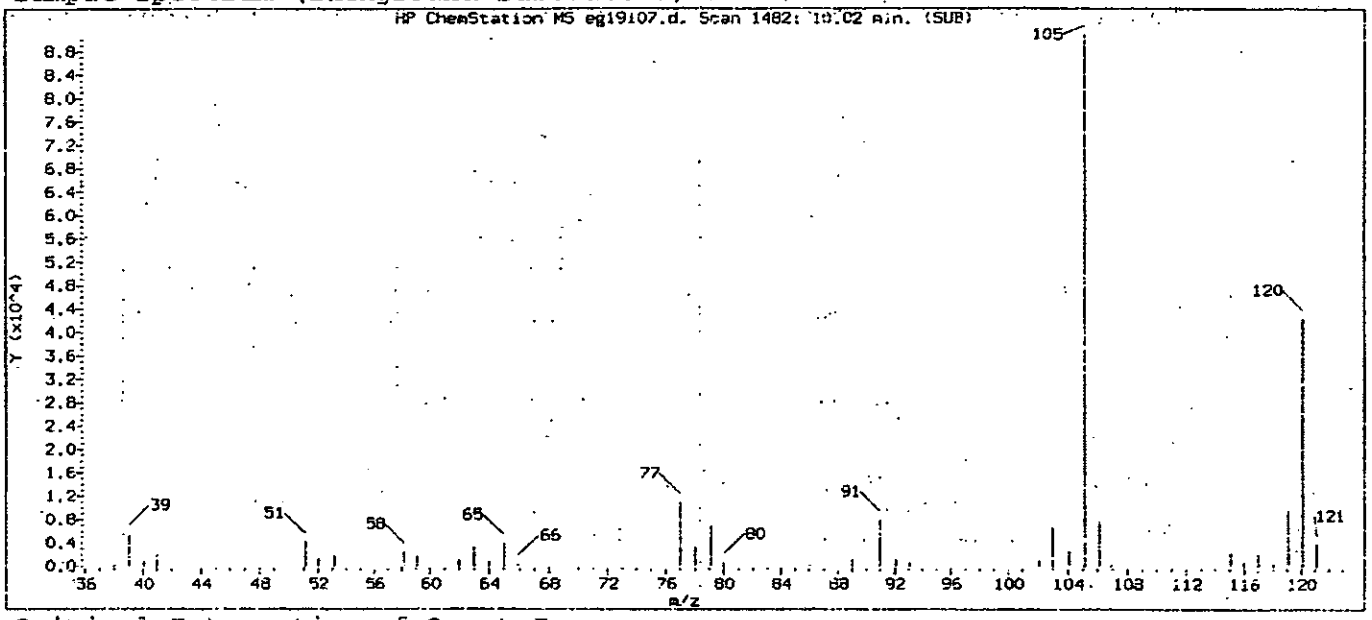
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

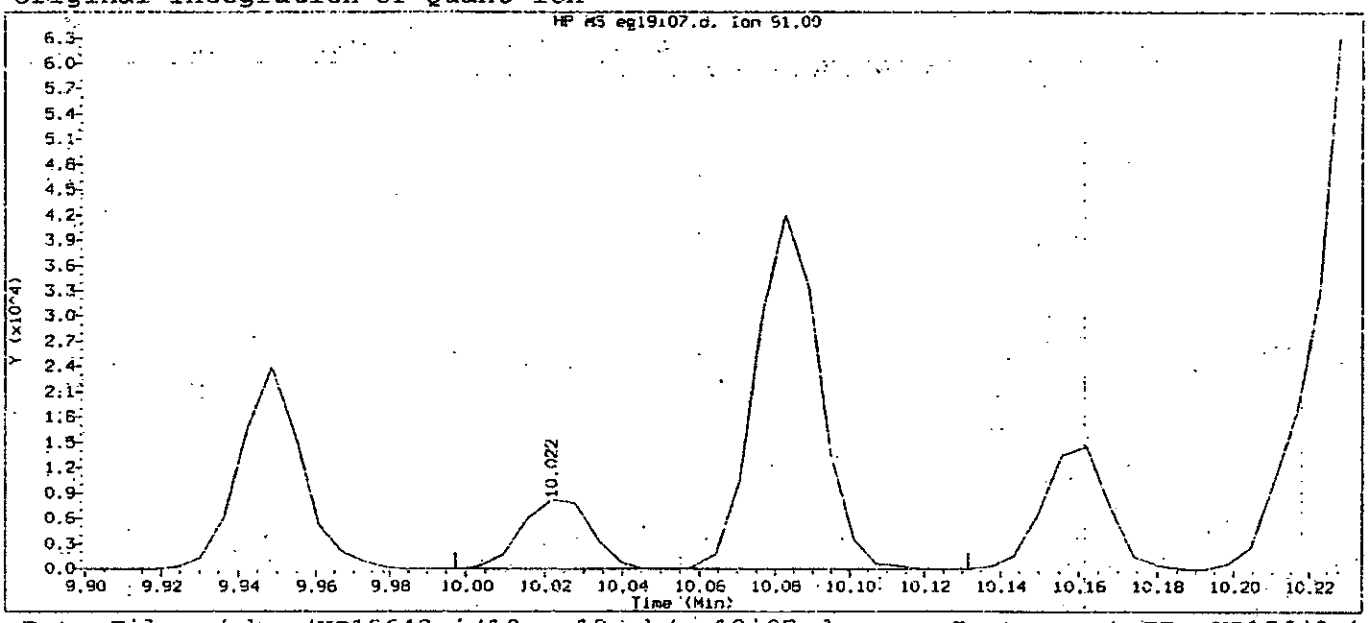
GC/MS audit/management approval: 8/20/10

PTL86 0383

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

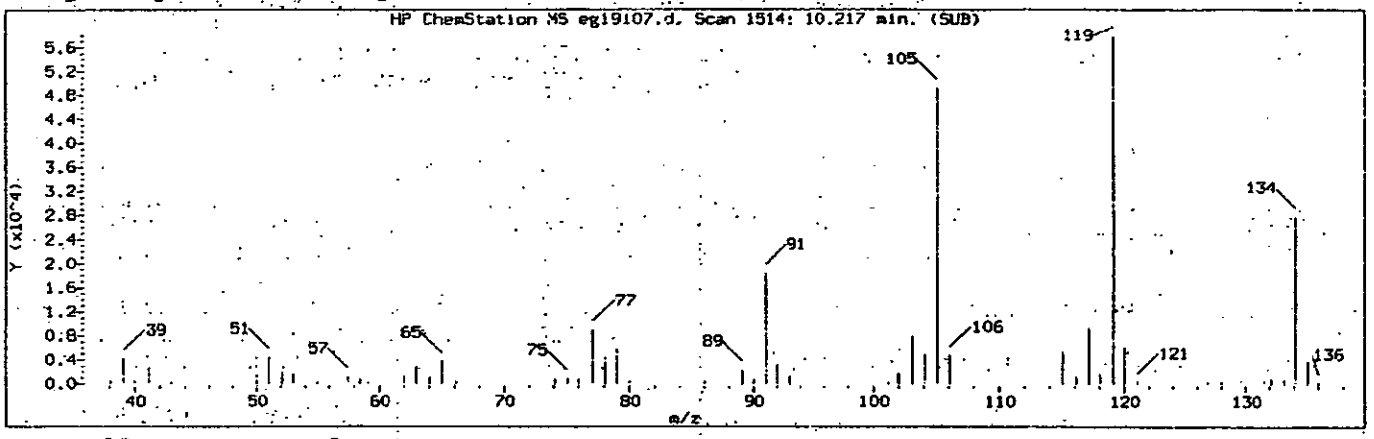
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 138
Compound Name : Benzyl Chloride
Scan Number : 1482
Retention Time (minutes): 10.022
Quant Ion : 91.00
Area : 60163
On-column Amount (ng) : 4.4224
Integration start scan : 1477 Integration stop scan: 1499
Y at integration start : 0 Y at integration end: 0

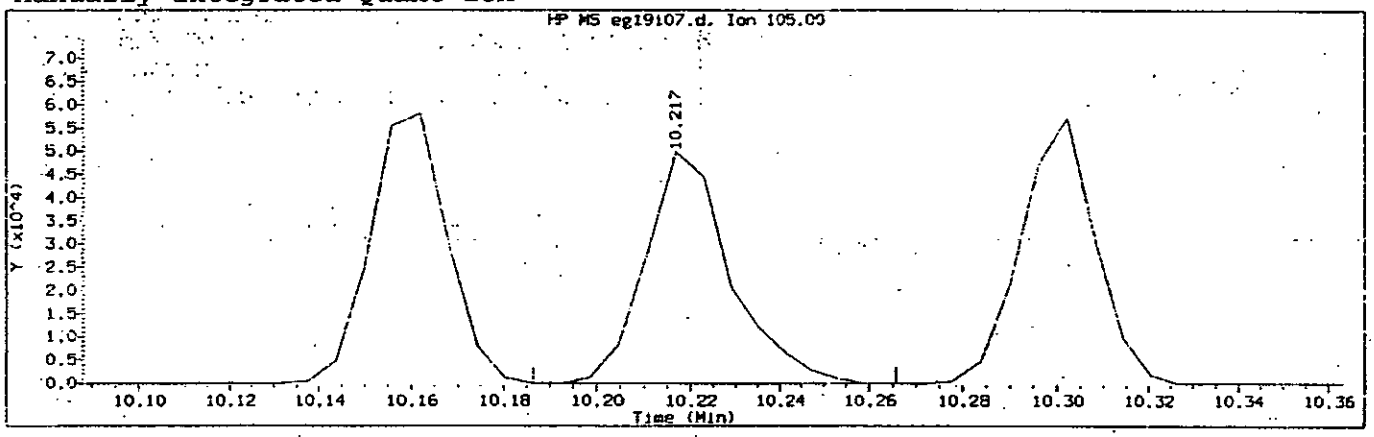
PTL06 0384

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1514
Retention Time (minutes): 10.217
Quant Ion : 105.00
Area (flag) : 63937M
On-Column Amount (ng) : 3.7043
Integration start scan : 1508 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

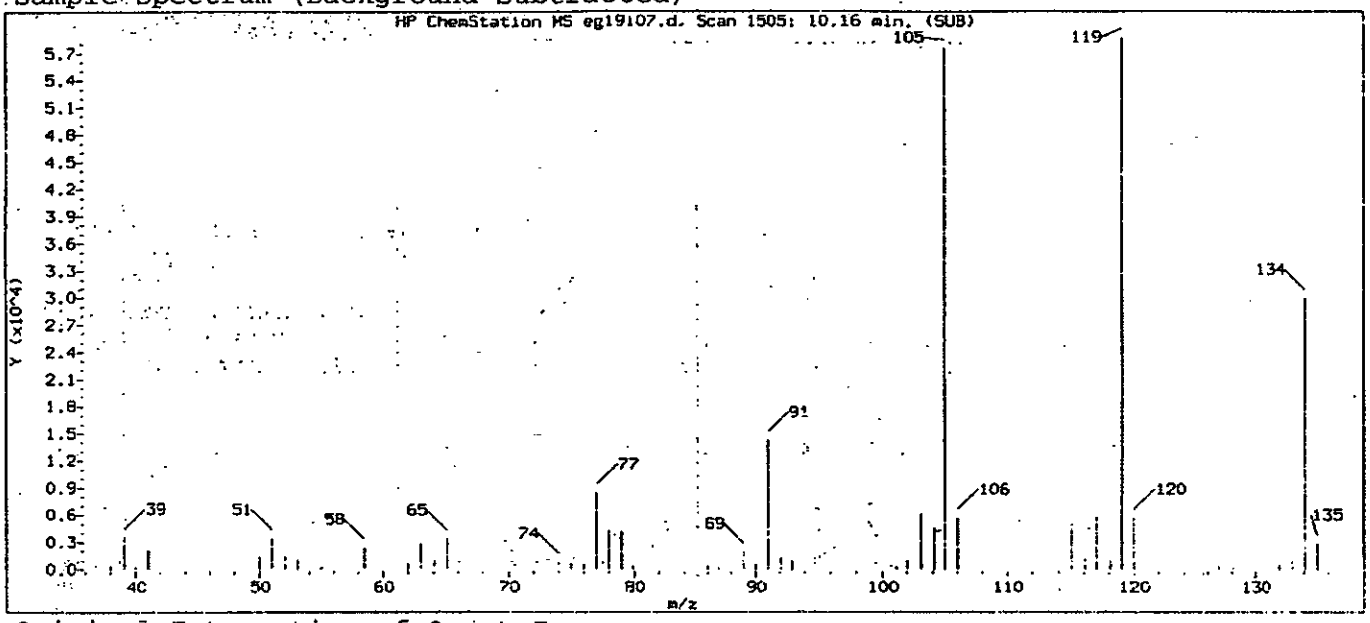
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

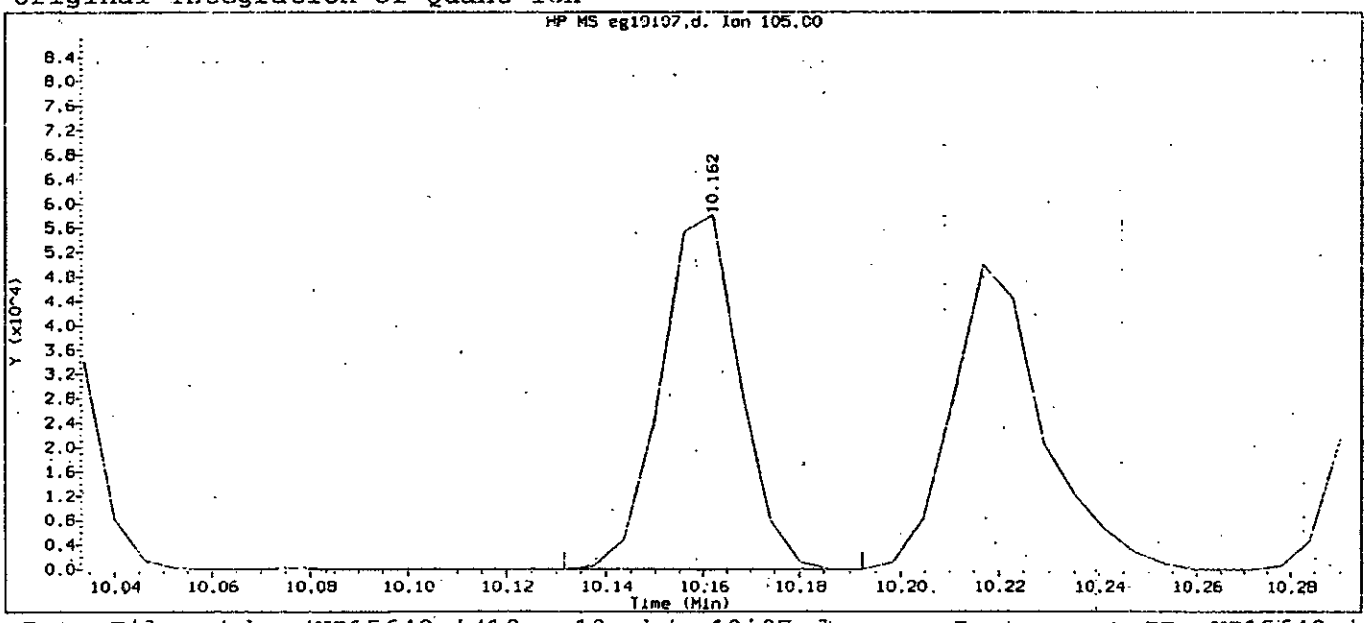
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0385

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

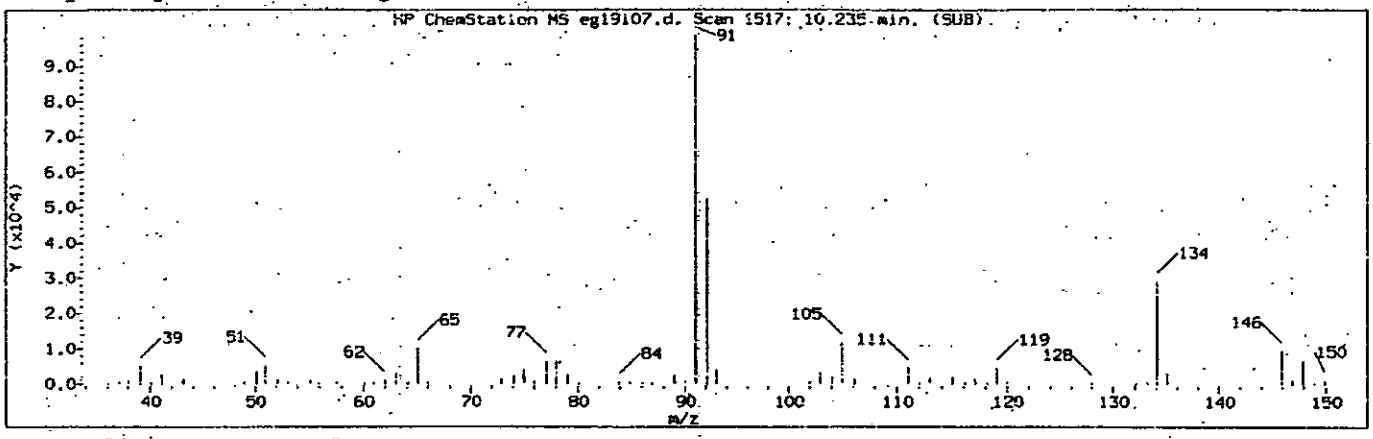
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 66677
On-column Amount (ng) : 2.8088
Integration start scan : 1499 Integration stop scan: 1509
Y at integration start : 0 Y at integration end: 0

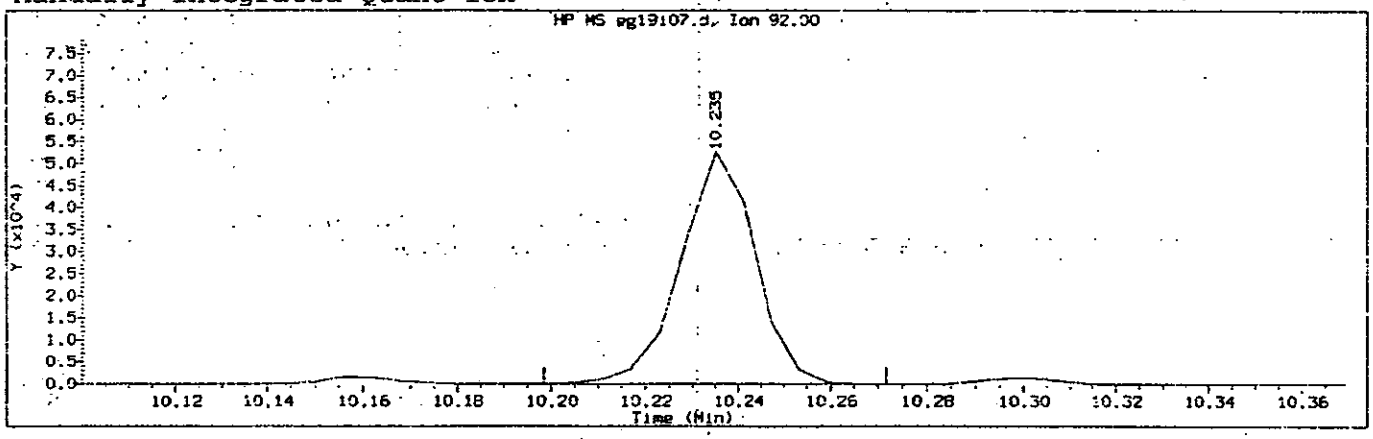
PTL86 0386

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 141
Compound Name : n-Butylbenzene
Scan Number : 1517
Retention Time (minutes): 10.235
Quant Ion : 92.00
Area (flag) : 58991M
On-Column Amount (ng) : 3.6631
Integration start scan : 1510 Integration stop scan: 1522
Y at integration start : 0 Y at integration end: 0

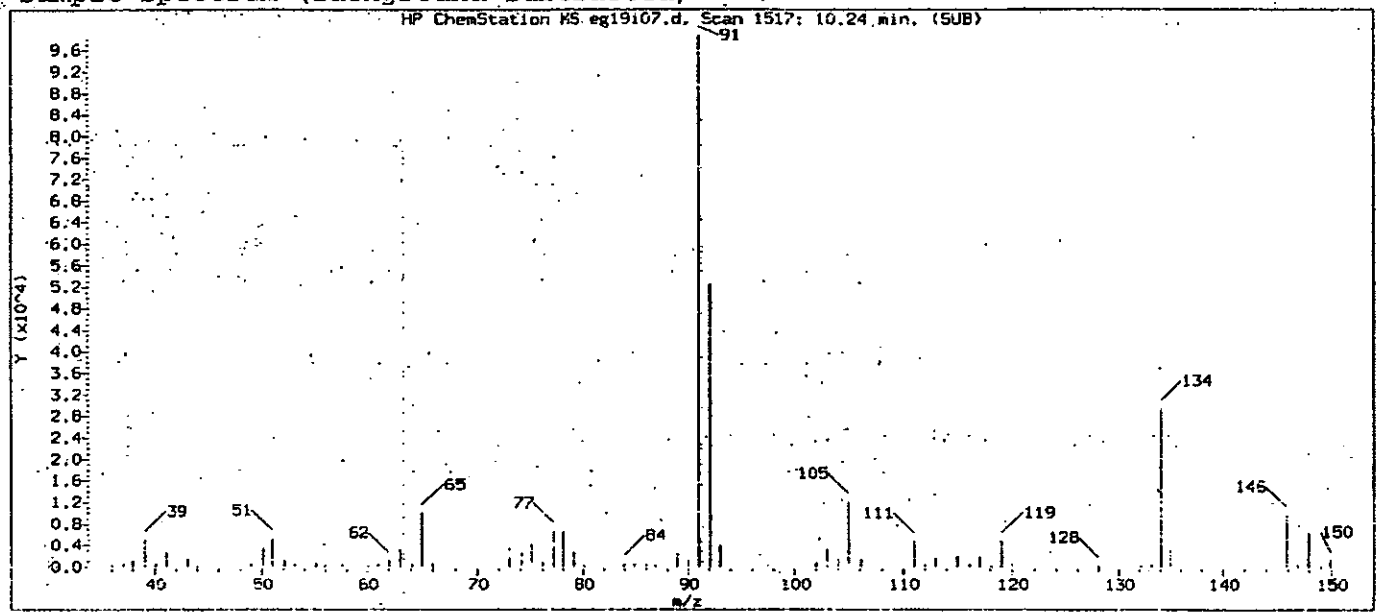
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

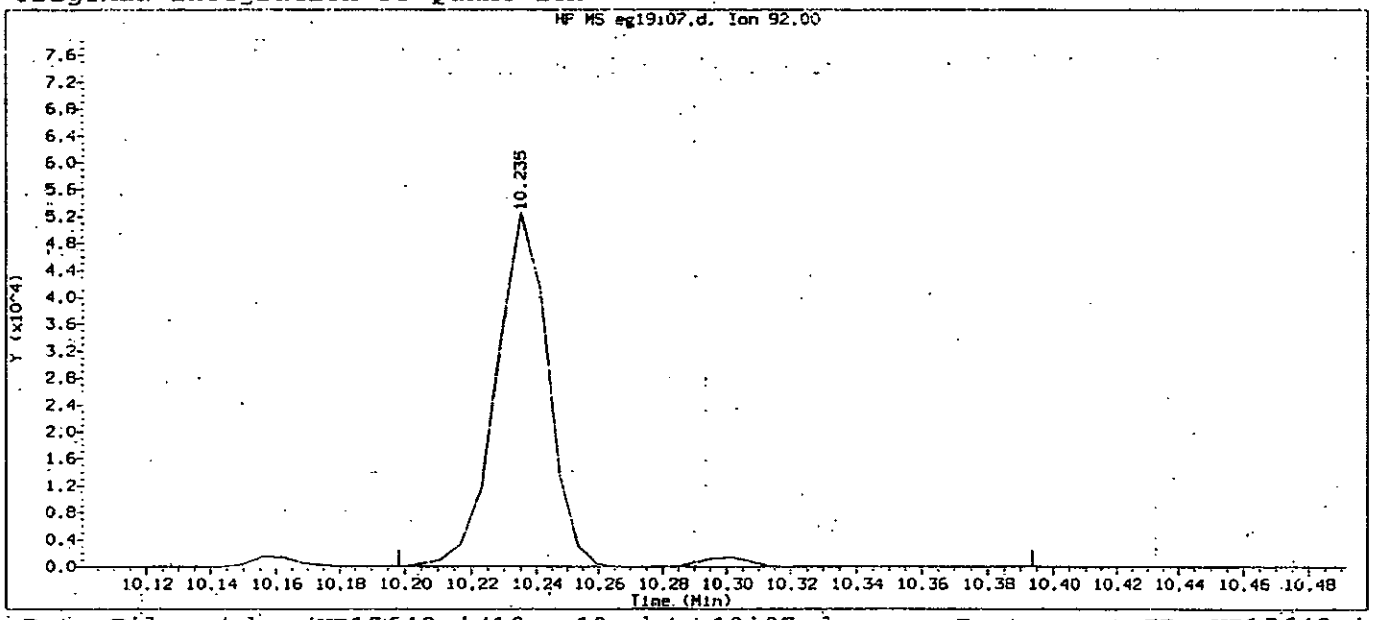
GC/MS audit/management approval: [illegible] 8/20/10

PTL06 0387

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

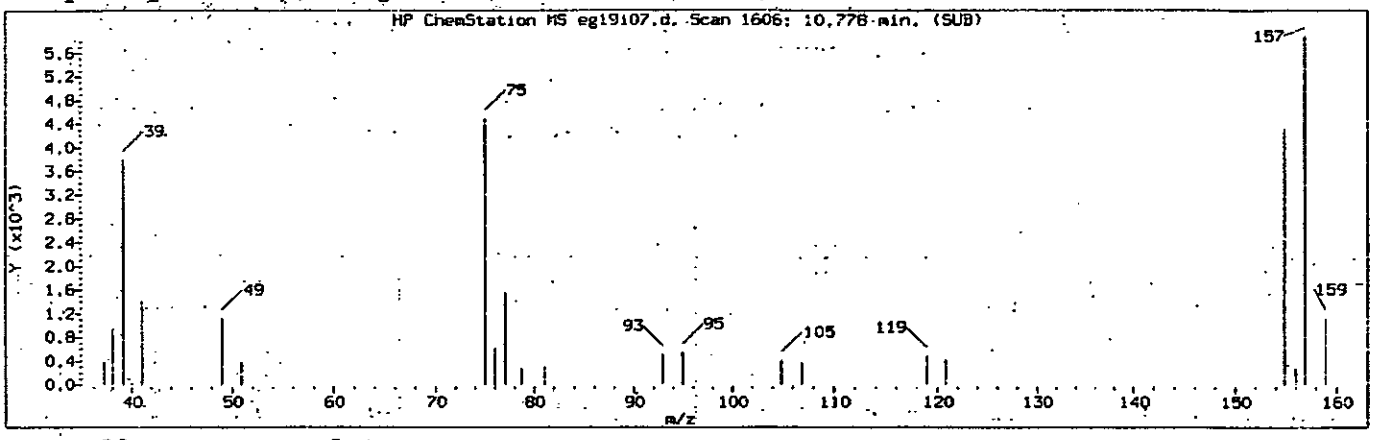
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 141		
Compound Name	: n-Butylbenzene		
Scan Number	: 1517		
Retention Time (minutes)	: 10.235		
Quant Ion	: 92.00		
Area	: 60411		
On-column Amount (ng)	: 3.7013		
Integration start scan	: 1510	Integration stop scan:	1542
Y at integration start	: 0	Y at integration end:	0

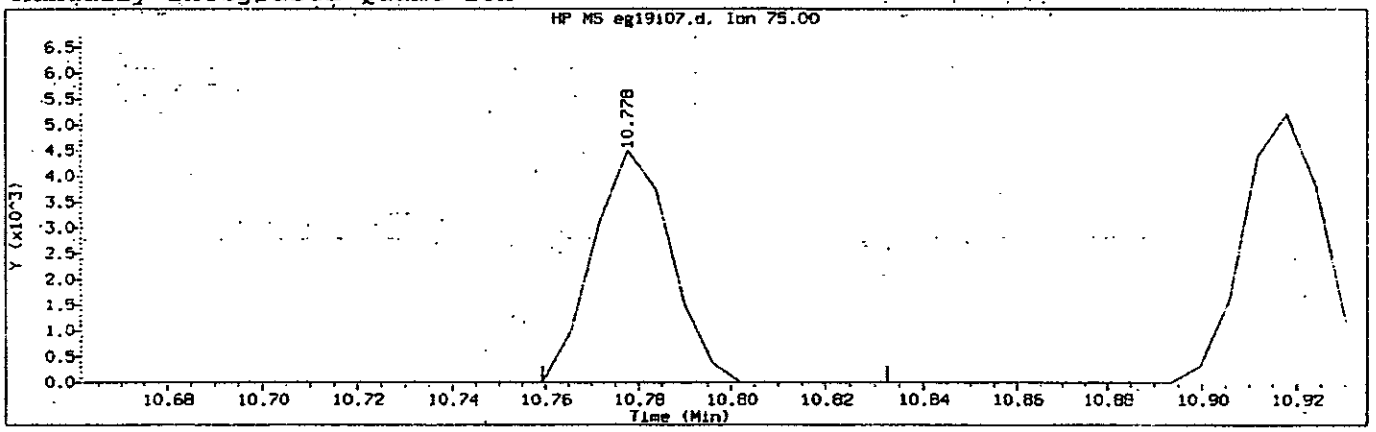
PTL86 0388

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 145
Compound Name	: 1,2-Dibromo-3-Chloropropane
Scan Number	: 1606
Retention Time (minutes)	: 10.778
Quant Ion	: 75.00
Area (flag)	: 5204M
On-Column Amount (ng)	: 3.3741
Integration start scan	: 1602 Integration stop scan: 1614
Y at integration start	: 0 Y at integration end: 0

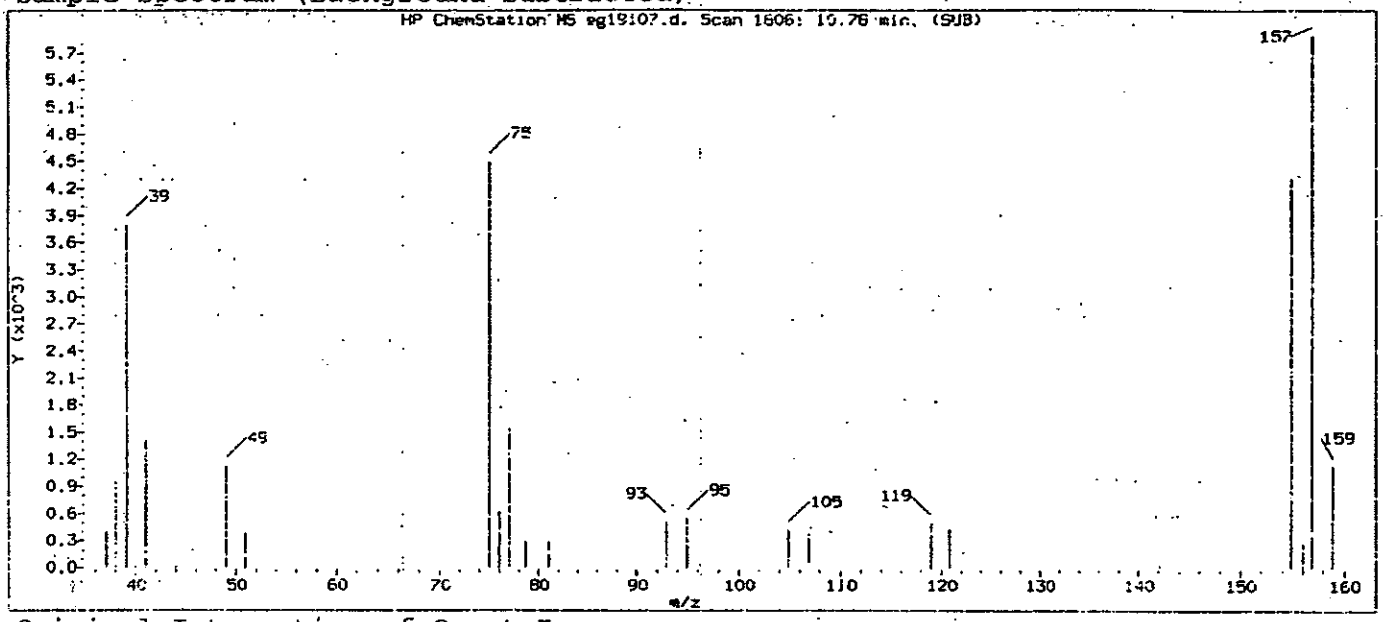
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

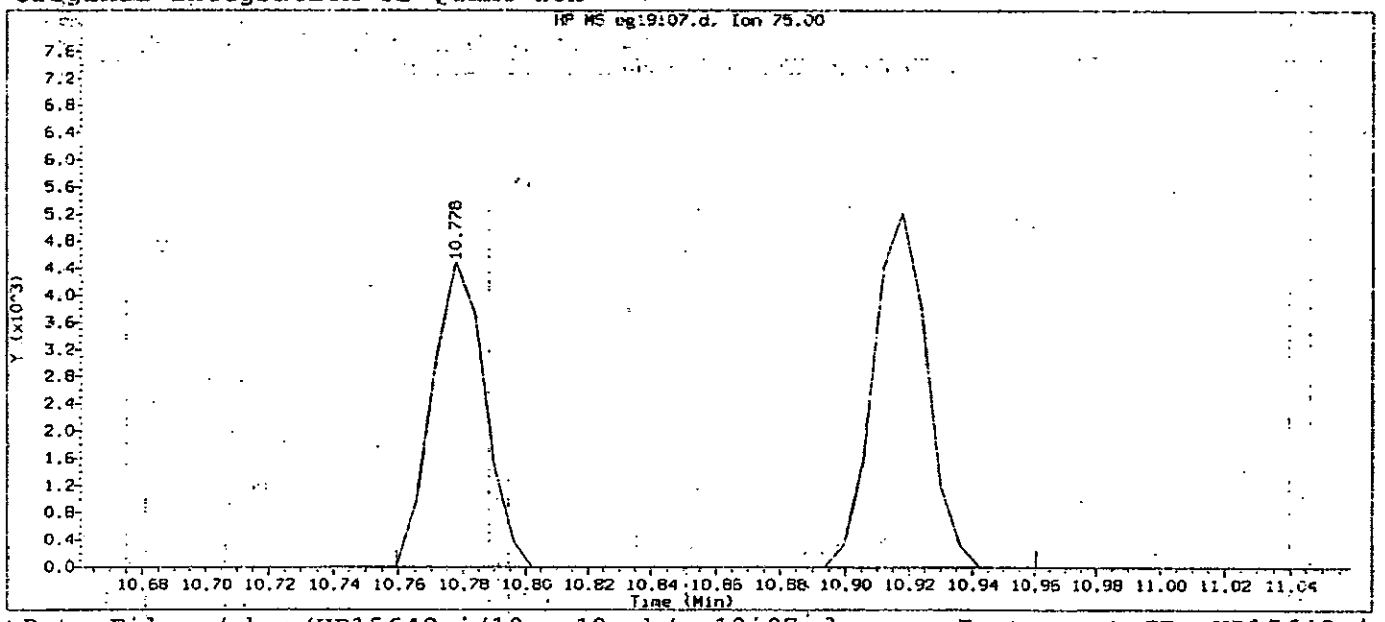
GC/MS audit/management approval: [illegible] 8/20/10

PTL06 0389

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

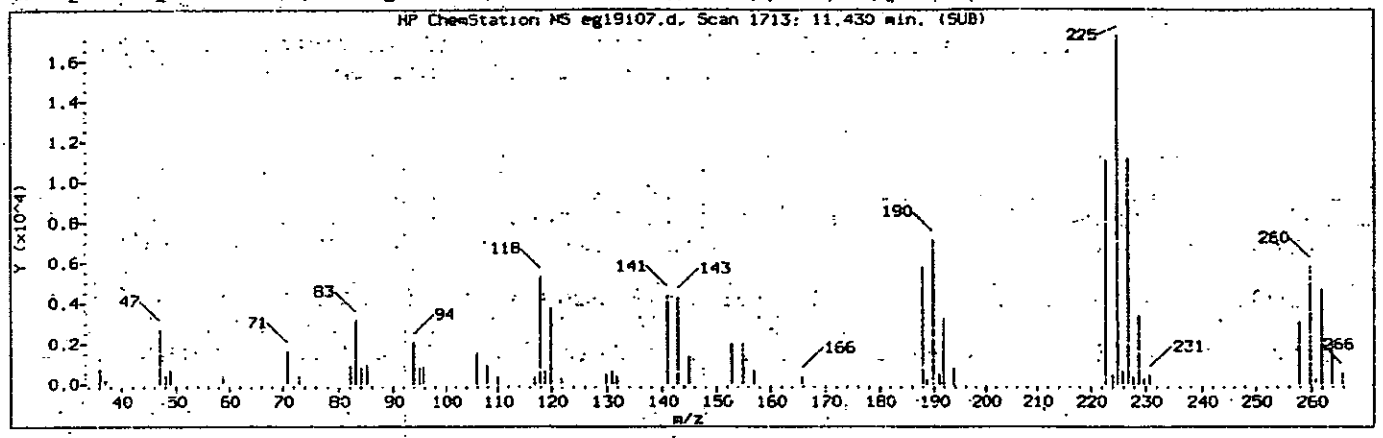
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area : 11376
On-column Amount (ng) : 3.5539
Integration start scan : 1602 Integration stop scan: 1635
Y at integration start : 0 Y at integration end: 0

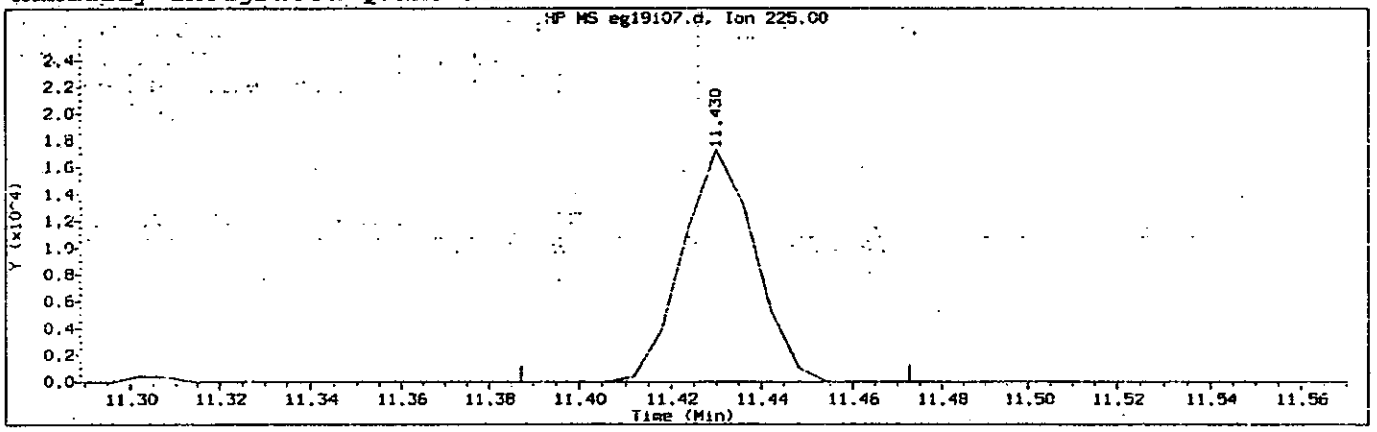
PTL06 8398

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum, (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 147
Compound Name : Hexachlorobutadiene
Scan Number : 1713
Retention Time (minutes): 11.430
Quant Ion : 225.00
Area (flag) : 19185M
On-Column Amount (ng) : 3.7980
Integration start scan : 1705 Integration stop scan: 1719
Y at integration start : 0 Y at integration end: 0

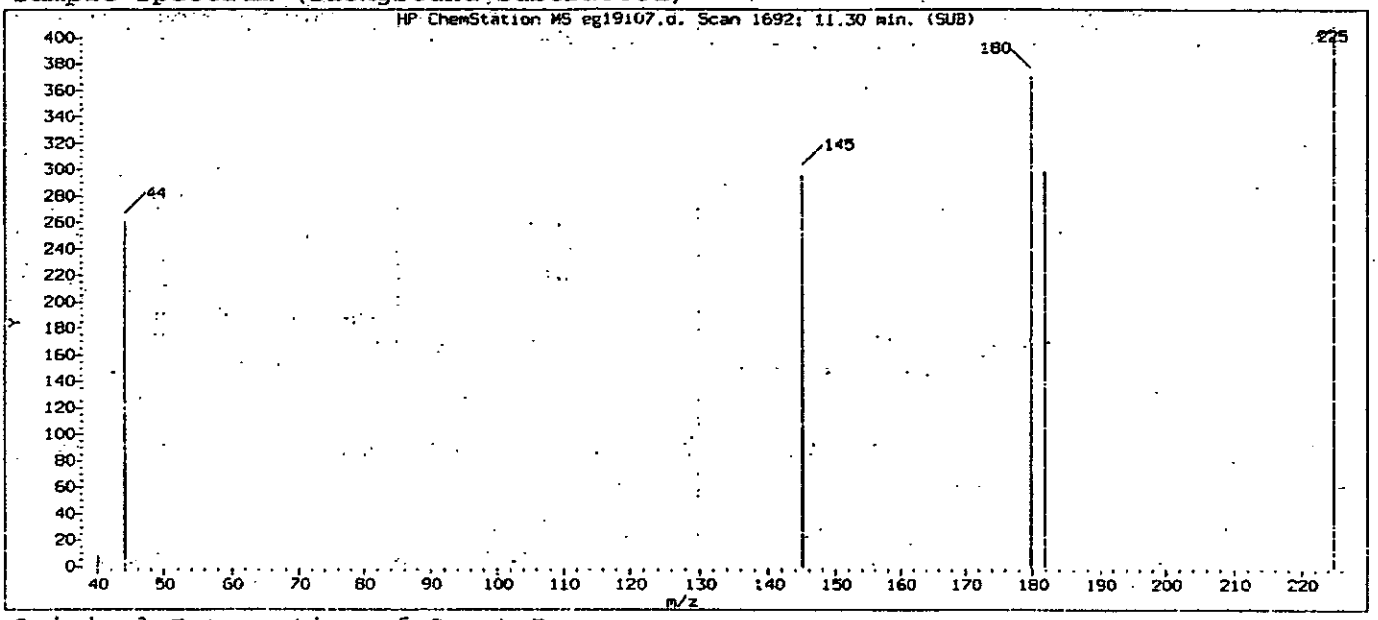
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

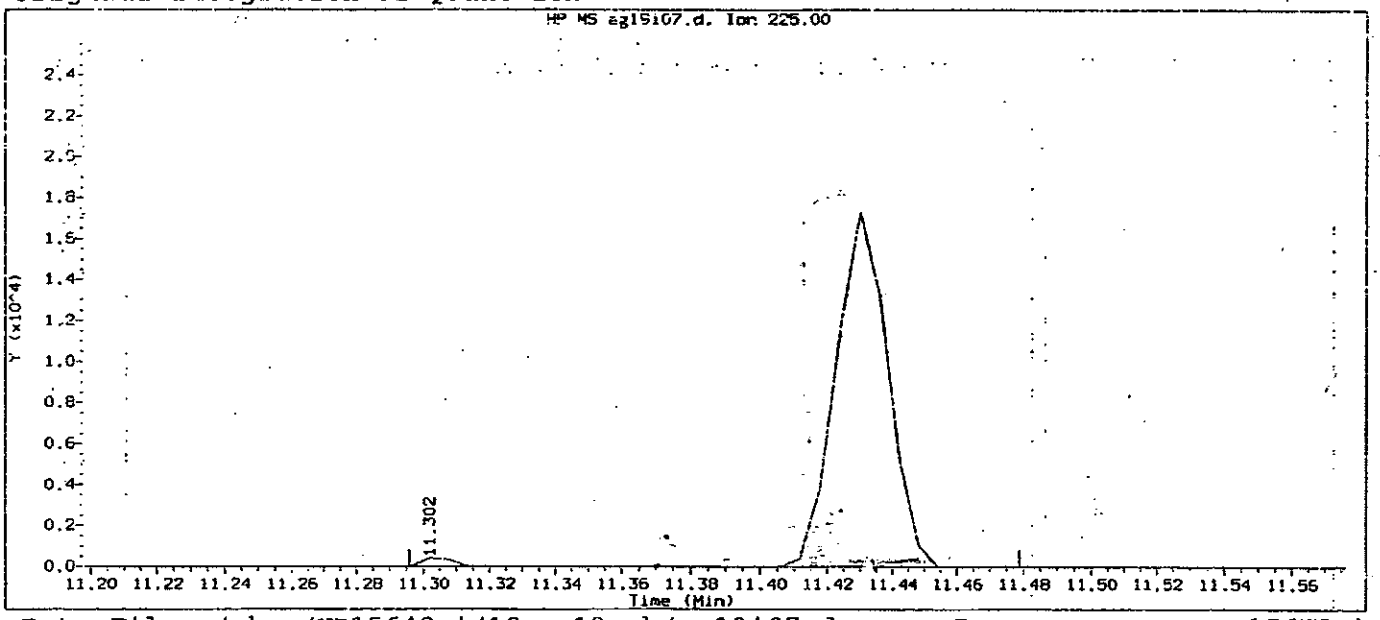
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8391

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

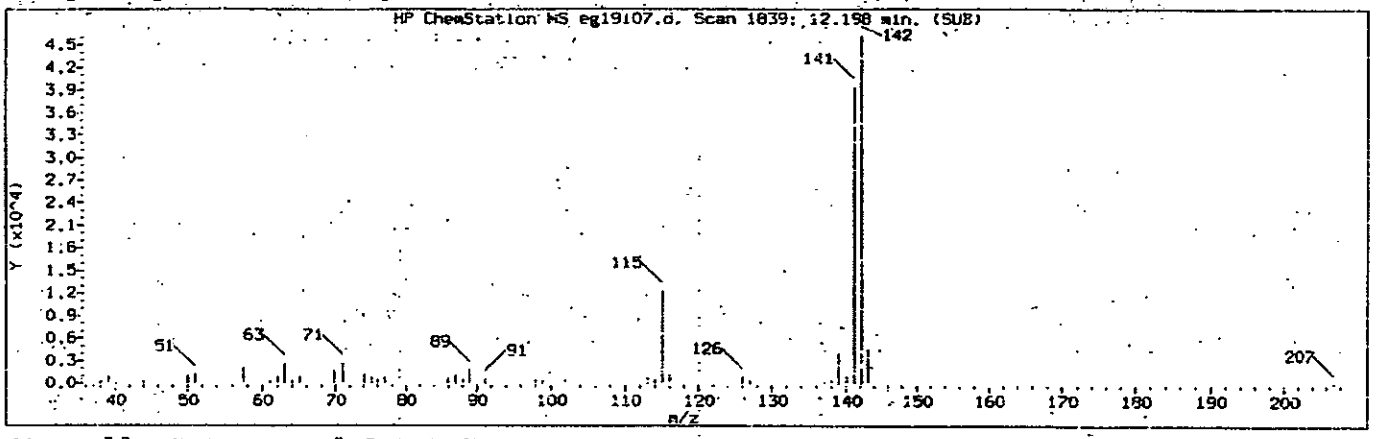
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 147		
Compound Name	: Hexachlorobutadiene		
Scan Number	: 1692		
Retention Time (minutes)	: 11.302		
Quant Ion	: 225.00		
Area	: 19451		
On-column Amount (ng)	: 3.8065		
Integration start scan	: 1690	Integration stop scan:	1720
Y at integration start	: 0	Y at integration end:	0

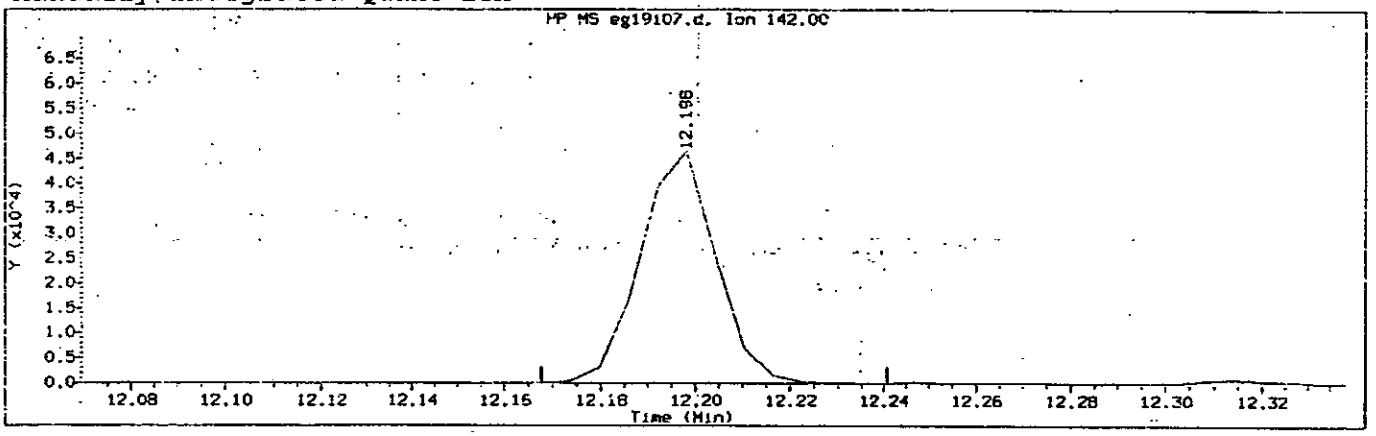
PTL86 8392

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 18:49
Date, time and analyst ID of latest file update: 19-Aug-2010 18:50 sej02002

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 152
Compound Name : 2-Methylnaphthalene
Scan Number : 1839
Retention Time (minutes): 12.198
Quant Ion : 142.00
Area (flag) : 51433M
On-Column Amount (ng) : 3.1109
Integration start scan : 1833 Integration stop scan: 1845
Y at integration start : 0 Y at integration end: 0

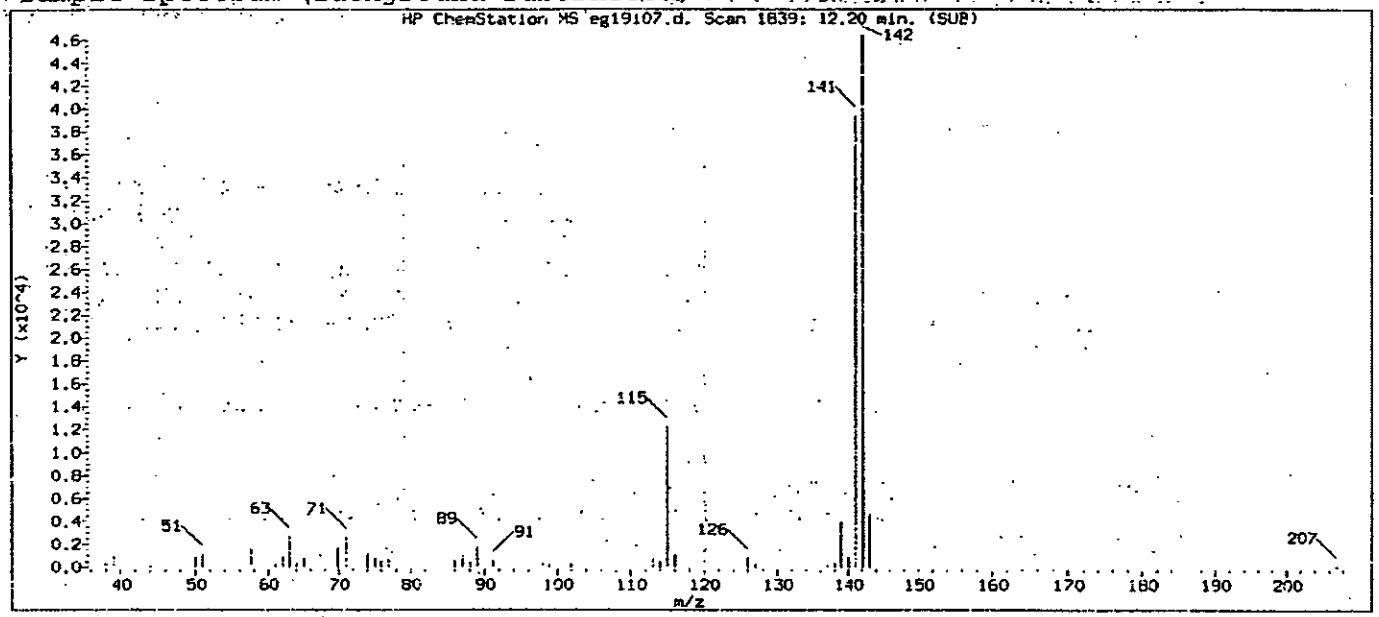
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50. Target 3.5 esignature user ID: sej02002

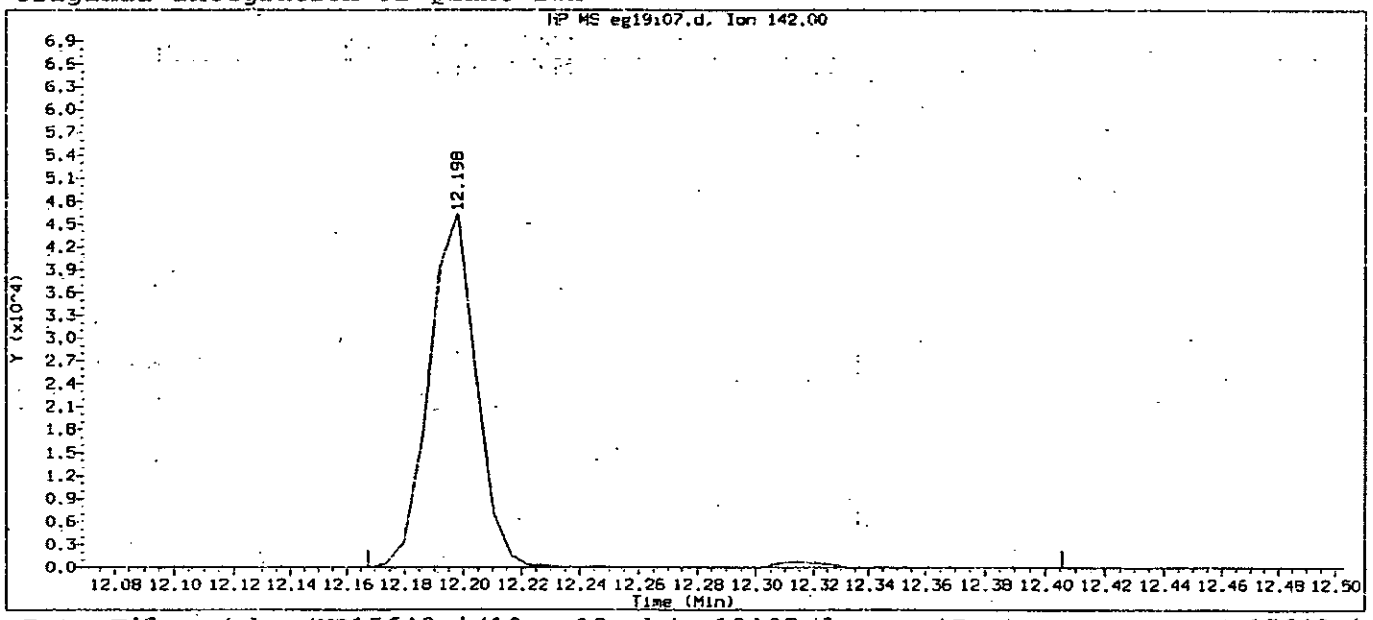
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 8393

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19i07.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:27 Analyst ID: JML01693

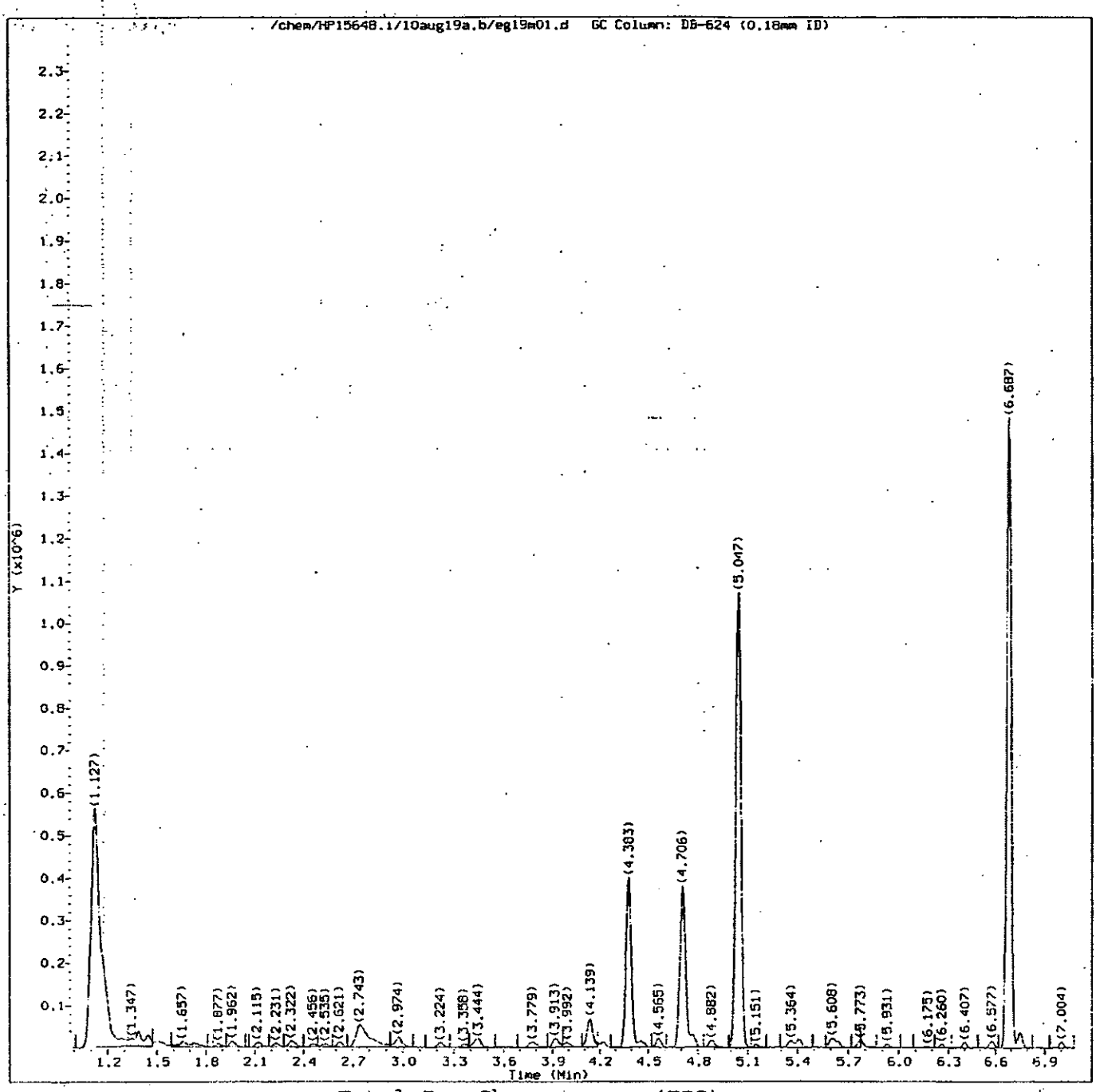
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 16:44 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 152
Compound Name : 2-Methylnaphthalene
Scan Number : 1839
Retention Time (minutes): 12.198
Quant Ion : 142.00
Area : 52345
On-column Amount (ng) : 3.1588
Integration start scan : 1833 Integration stop scan: 1872
Y at integration start : 0 Y at integration end: 0

PTL86 0394

Digitally signed by Sara E. Johnson on 08/19/2010 at 18:50.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d
Injection date and time: 19-AUG-2010 16:47

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m
Calibration date and time: 20-AUG-2010 09:45

Sublist used: 8260W

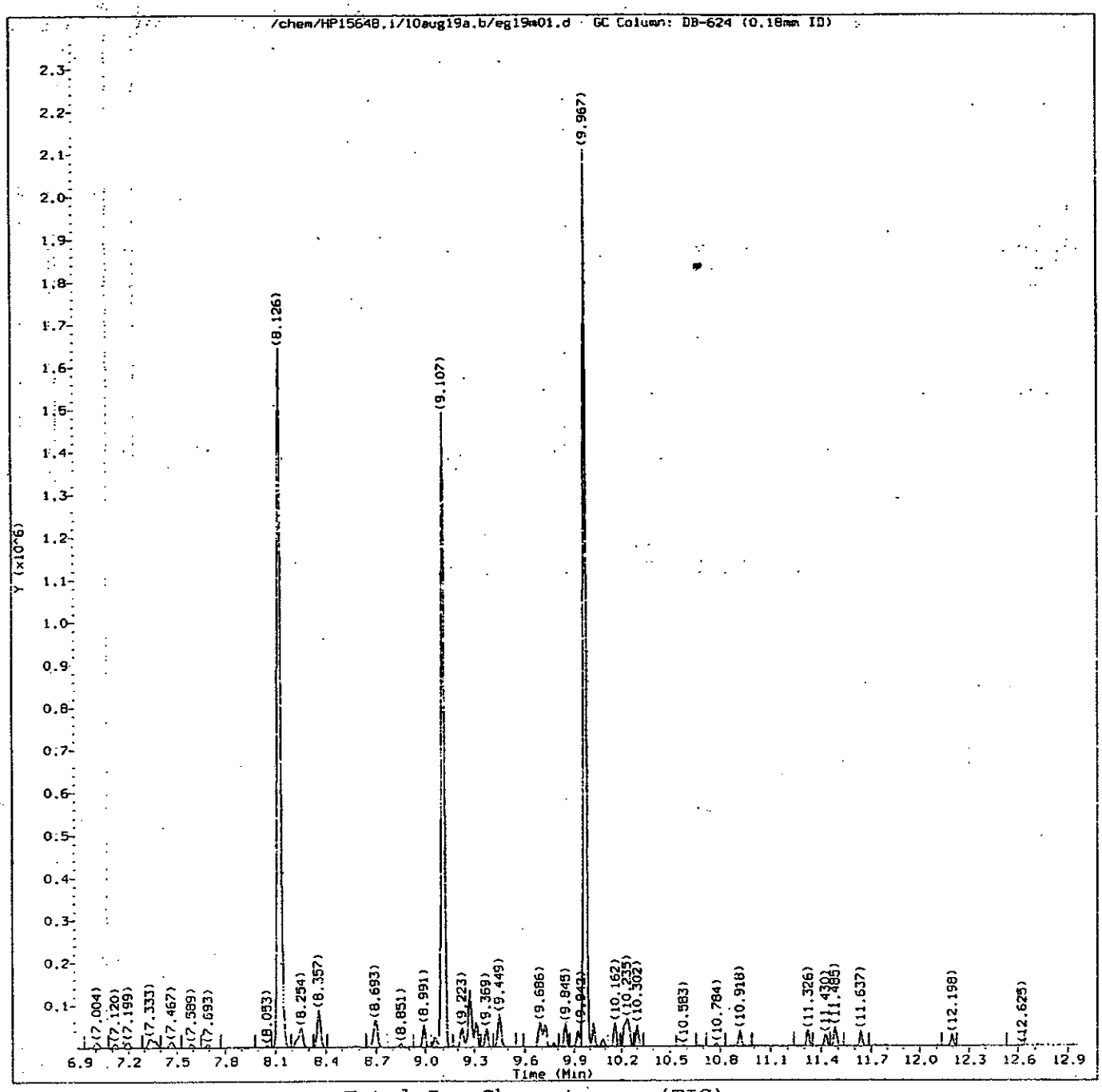
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001

Lab Sample ID: MDL001

PTL86 8395

Digitally signed by Jason M. Long
on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

PTL86 0396

Digitally signed by Jason M. Long
on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.286	85	8090	0.787
2) Chloromethane	(1)	1.340	50	10789	1.029
4) Vinyl Chloride	(1)	1.432	62	9073	0.896
3) 1,3-Butadiene	(1)	1.450	39	8459	1.282
5) Bromomethane	(1)	1.664	94	7735	1.206
6) Chloroethane	(1)	1.731	64	5544	0.926
7) Dichlorofluoromethane	(1)	1.883	67	11100	0.849
8) Trichlorofluoromethane	(1)	1.962	101	9587M	0.864
9) n-Pentane	(1)	1.968	43	10264M	0.841
12) Ethyl Ether	(1)	2.115	59	5721	1.004
13) Freon 123a	(1)	2.139	67	7142	0.868
14) Acrolein	(4)	2.224	56	15594	10.383
15) 1,1-Dichloroethene	(1)	2.322	96	5572	0.842
17) Freon 113	(1)	2.322	101	5093	0.764
16) Acetone	(1)	2.352	43	5628M	2.674
18) Methyl Iodide	(1)	2.456	142	9844	0.902
21) Carbon Disulfide	(1)	2.529	76	18150M	0.993
22) Allyl Chloride	(1)	2.621	41	9572M	0.898
23) Methyl Acetate	(1)	2.639	43	6242	1.112
24) Methylene Chloride	(1)	2.743	84	10990	1.587
25) *t-Butyl Alcohol-d10	(4)	2.761	65	133670	250.000
26) t-Butyl Alcohol	(4)	2.822	59	14352	22.397
27) Acrylonitrile	(1)	2.950	53	2484	0.788
28) trans-1,2-Dichloroethene	(1)	2.980	96	5924	0.860
29) Methyl Tertiary Butyl Ether	(1)	2.986	73	17134	0.901
31) n-Hexane	(1)	3.224	57	8155M	0.762
33) 1,1-Dichloroethane	(1)	3.364	63	9922	0.804
34) di-Isopropyl Ether	(1)	3.432	45	18618	0.896
35) 2-Chloro-1,3-Butadiene	(1)	3.444	53	7906	0.824
36) 1,2-Dichloroethene (total)	(1)		96	12286	1.734
37) Ethyl t-Butyl Ether	(1)	3.779	59	17095	0.881
39) cis-1,2-Dichloroethene	(1)	3.913	96	6362	0.874
40) 2-Butanone	(1)	3.925	43	7064M	2.000
41) 2,2-Dichloropropane	(1)	3.925	77	7682	0.835
42) Propionitrile	(4)	3.992	54	19581	18.546
44) Methacrylonitrile	(1)	4.139	67	27803	8.316
45) Bromochloromethane	(1)	4.145	128	5030	1.455
46) Tetrahydrofuran	(4)	4.200	71	1712	1.747
47) Chloroform	(1)	4.224	83	9810	0.898

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jason M. Long
on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50)$Dibromofluoromethane	(1)	4.383	113	260982	49.944
52) 1,1,1-Trichloroethane	(1)	4.407	97	10029	0.953
53) Cyclohexane	(1)	4.462	56	10302	0.798
55) 1,1-Dichloropropene	(1)	4.559	75	7888	0.793
56) Carbon Tetrachloride	(1)	4.565	117	5918	0.775
58) Isobutyl Alcohol	(4)	4.687	41	10252MA	47.301
59)$1,2-Dichloroethane-d4	(1)	4.706	102	69215	49.885
63) Benzene	(1)	4.767	78	25914	0.911
65) 1,2-Dichloroethane	(1)	4.785	62	7857	0.966
67) t-Amyl Methyl Ether	(1)	4.889	73	16782	0.892
68) n-Heptane	(1)	5.041	43	8699	0.817
69)*Fluorobenzene	(1)	5.047	96	1168654	50.000
71) n-Butanol	(4)	5.358	56	15360	80.150
72) Trichloroethene	(1)	5.413	95	5925	0.811
74) Methylcyclohexane	(1)	5.614	83	9581	0.708
76) 1,2-Dichloropropane	(1)	5.645	63	6202	0.862
78) Dibromomethane	(1)	5.760	93	3997	0.976
79) Methyl Methacrylate	(1)	5.779	69	4778	0.792
80) 1,4-Dioxane	(4)	5.785	88	2572	41.459
81) Bromodichloromethane	(1)	5.931	83	6721	0.873
82) 2-Nitropropane	(1)	6.175	41	2538	1.568
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	4158	0.846
87) cis-1,3-Dichloropropene	(1)	6.400	75	8433	0.826
88) 4-Methyl-2-Pentanone	(1)	6.577	43	13197	1.683
90)$Toluene-d8	(2)	6.687	98	1150963	49.656
91) Toluene	(2)	6.754	92	16277	0.886
92) trans-1,3-Dichloropropene	(2)	6.998	75	8479	0.902
93) Ethyl Methacrylate	(2)	7.120	69	6112	0.786
94) 1,1,2-Trichloroethane	(2)	7.199	97	5334	0.899
96) Tetrachloroethene	(2)	7.333	166	7261	0.850
97) 1,3-Dichloropropane	(2)	7.364	76	9372	0.894
98) 2-Hexanone	(2)	7.467	43	9815	0.312
100) Dibromochloromethane	(2)	7.583	129	4985	0.861
101) 1,2-Dibromoethane	(2)	7.693	107	5483	0.909
103)*Chlorobenzene-d5	(2)	8.126	117	838183	50.000
104) Chlorobenzene	(2)	8.150	112	18168	0.913
105) Xylene (Total)	(2)		106	33633	2.458
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	4819	0.813
107) Ethylbenzene	(2)	8.254	91	29005M	0.824

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL86 8398

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on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
108) m+p-Xylene	(2)	8.357	106	22415	1.620
110) o-Xylene	(2)	8.693	106	11218	0.838
111) Styrene	(2)	8.705	104	16202	0.766
112) Bromoform	(2)	8.845	173	3152	0.743
113) Isopropylbenzene	(2)	8.991	105	28201	0.800
115) Cyclohexanone	(4)	9.058	55	9374M	44.528
116)$4-Bromofluorobenzene	(2)	9.107	95	405226	49.279
118) Bromobenzene	(3)	9.223	156	6766	0.855
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	7434M	0.863
120) 1,2,3-Trichloropropane	(3)	9.260	110	2360	0.929
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	21836M	8.457
122) n-Propylbenzene	(3)	9.308	91	33391M	0.824
124) 1,3,5-Trimethylbenzene	(3)	9.443	105	21834	0.788
125) 4-Chlorotoluene	(3)	9.455	126	6848	0.836
123) 2-Chlorotoluene	(3)	9.455	126	6848	0.847
127) tert-Butylbenzene	(3)	9.686	134	5832M	0.847
128) Pentachloroethane	(3)	9.699	167	3382	0.820
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	23486	0.818
132) sec-Butylbenzene	(3)	9.845	105	28447M	0.782
133) 1,3-Dichlorobenzene	(3)	9.924	146	13563	0.885
134) p-Isopropyltoluene	(3)	9.949	119	24266	0.767
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	447039	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	14575M	0.940
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	23218M	0.826
138) Benzyl Chloride	(3)	10.083	91	11002M	1.292
139) 1,3-Diethylbenzene	(3)	10.162	105	14403M	0.789
140) 1,4-Diethylbenzene	(3)	10.217	105	12997	0.766
141) n-Butylbenzene	(3)	10.235	92	12050	0.761
142) 1,2-Dichlorobenzene	(3)	10.247	146	13578	0.926
143) 1,2-Diethylbenzene	(3)	10.302	105	13612	0.800
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	1288M	0.873
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	9590	0.899
147) Hexachlorobutadiene	(3)	11.430	225	4769	0.960
148) Naphthalene	(3)	11.485	128	28010	0.911
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	9929	1.003
152) 2-Methylnaphthalene	(3)	12.198	142	12679	0.780

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL86 8488

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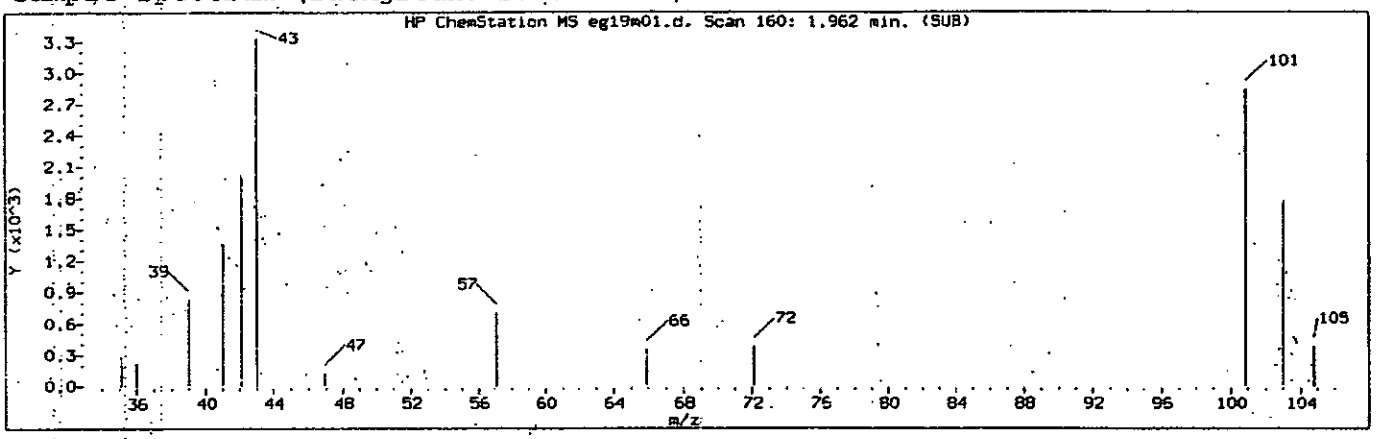
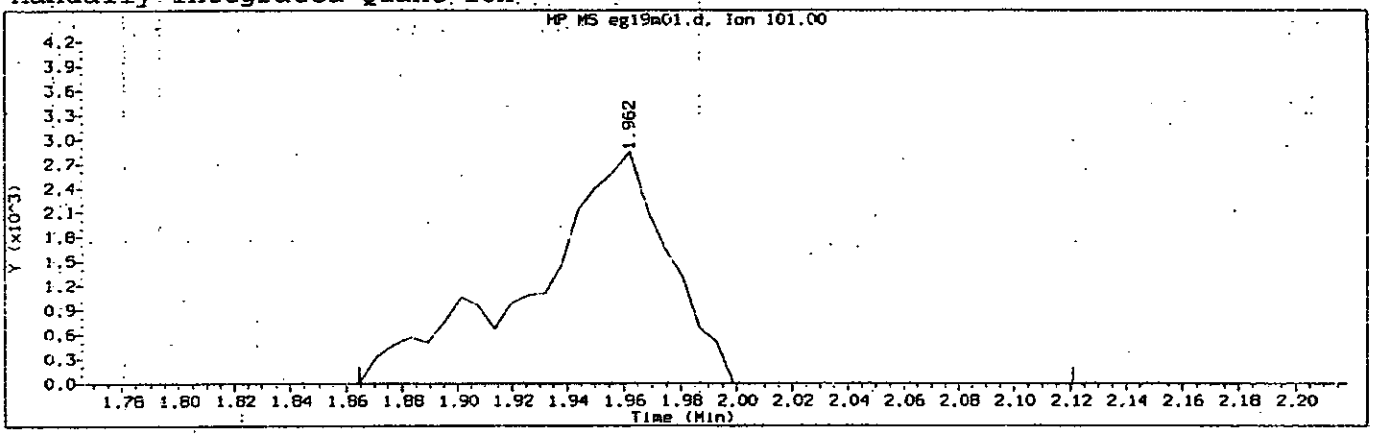
on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

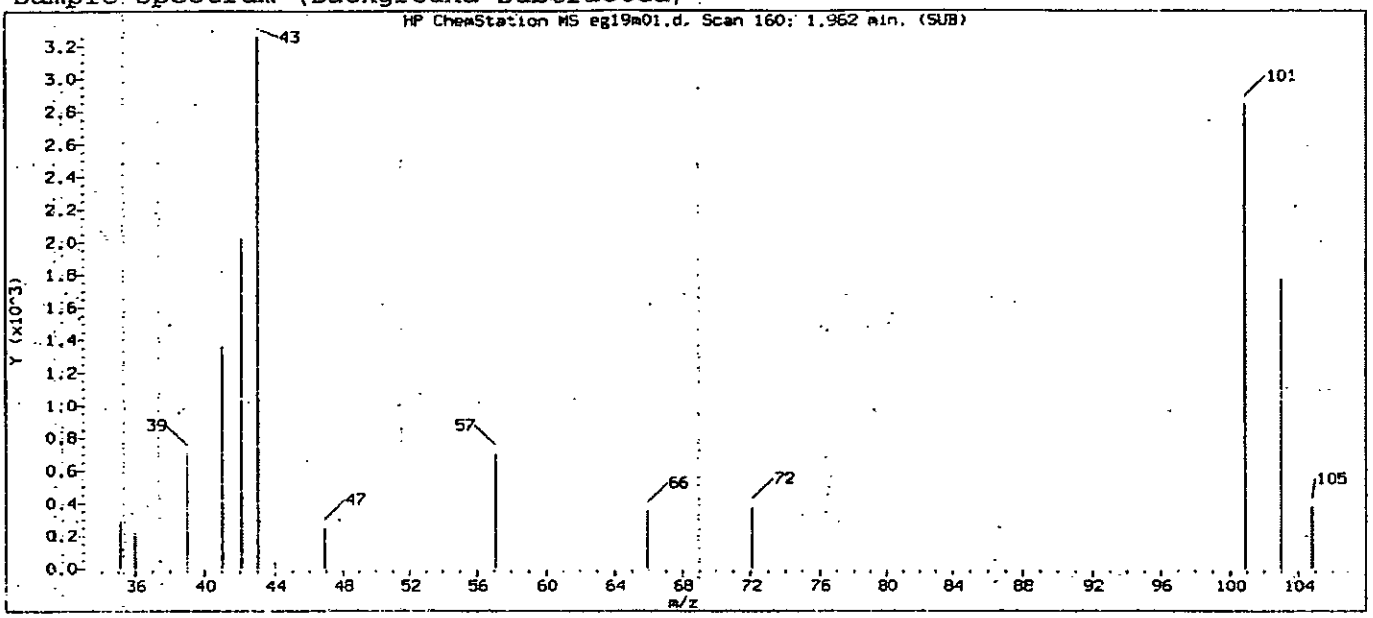
Compound Number	: 8		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 160		
Retention Time (minutes)	: 1.962		
Quant Ion	: 101.00		
Area (flag)	: 9587M		
On-Column Amount (ng)	: 0.8640		
Integration start scan	: 143	Integration stop scan:	185
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

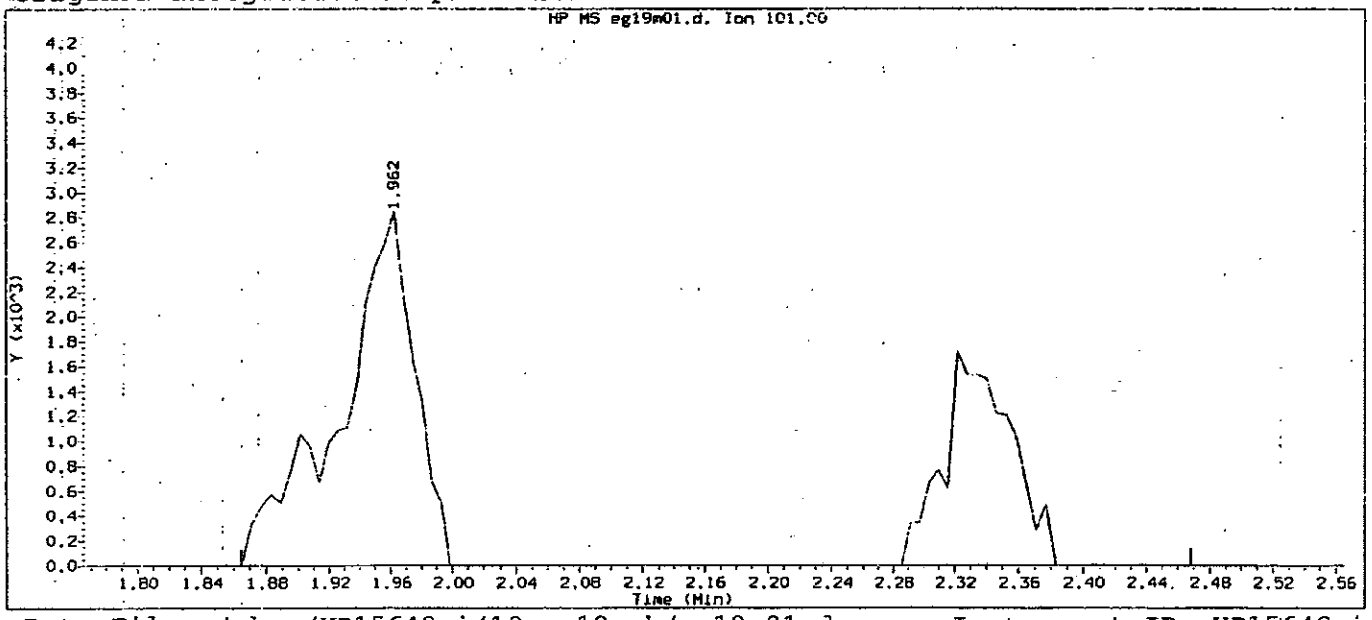
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [illegible] 8/20/10 PTL86 8481

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

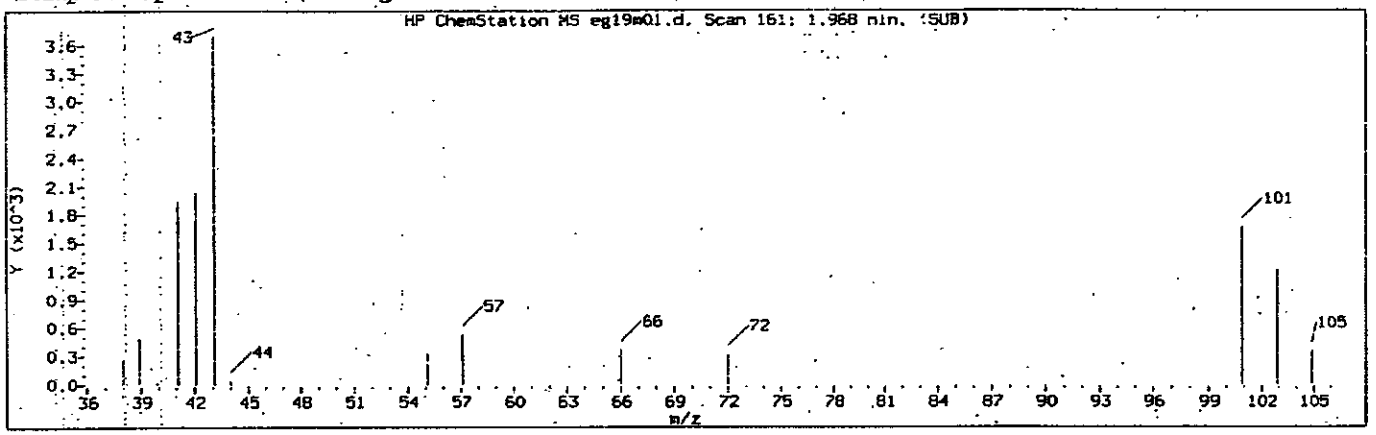
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 8
Compound Name : Trichlorofluoromethane
Scan Number : 160
Retention Time (minutes): 1.962
Quant Ion : 101.00
Area : 14681
On-column Amount (ng) : 1.3192
Integration start scan : 143 Integration stop scan: 242
Y at integration start : 0 Y at integration end: 0

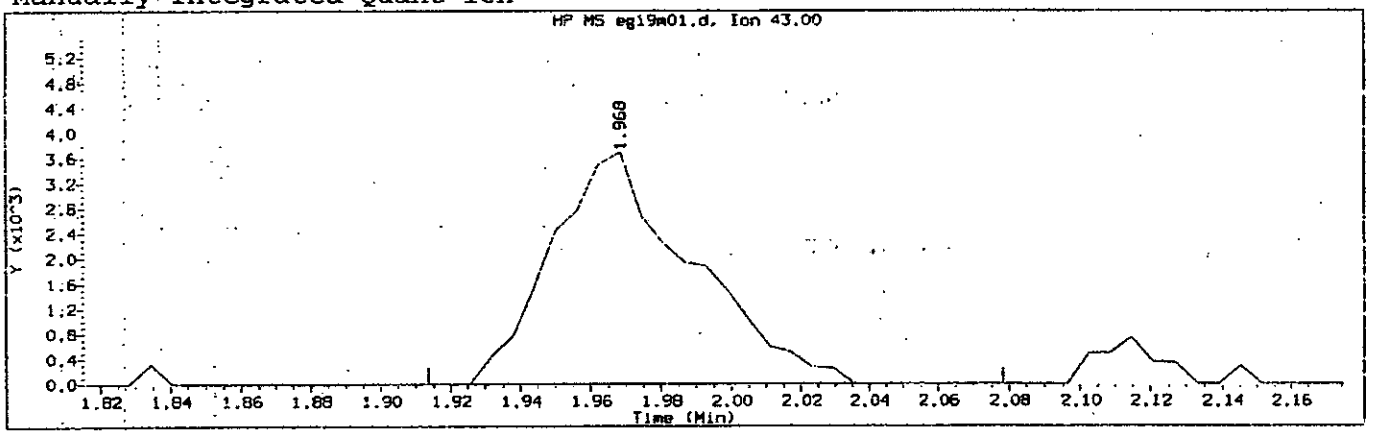
PTL86 8482

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

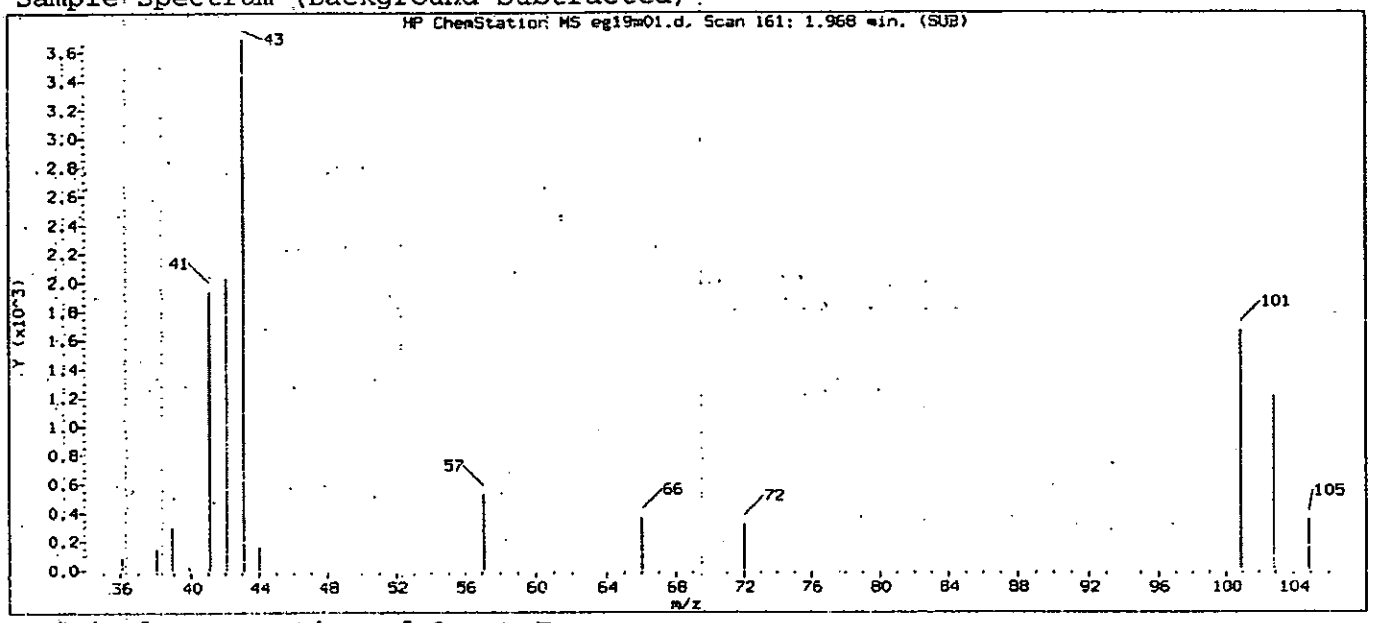
Compound Number	: 9		
Compound Name	: n-Pentane		
Scan Number	: 161		
Retention Time (minutes)	: 1.968		
Quant Ion	: 43.00		
Area (flag)	: 10264M		
On-Column Amount (ng)	: 0.8412		
Integration start scan	: 151	Integration stop scan:	178
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

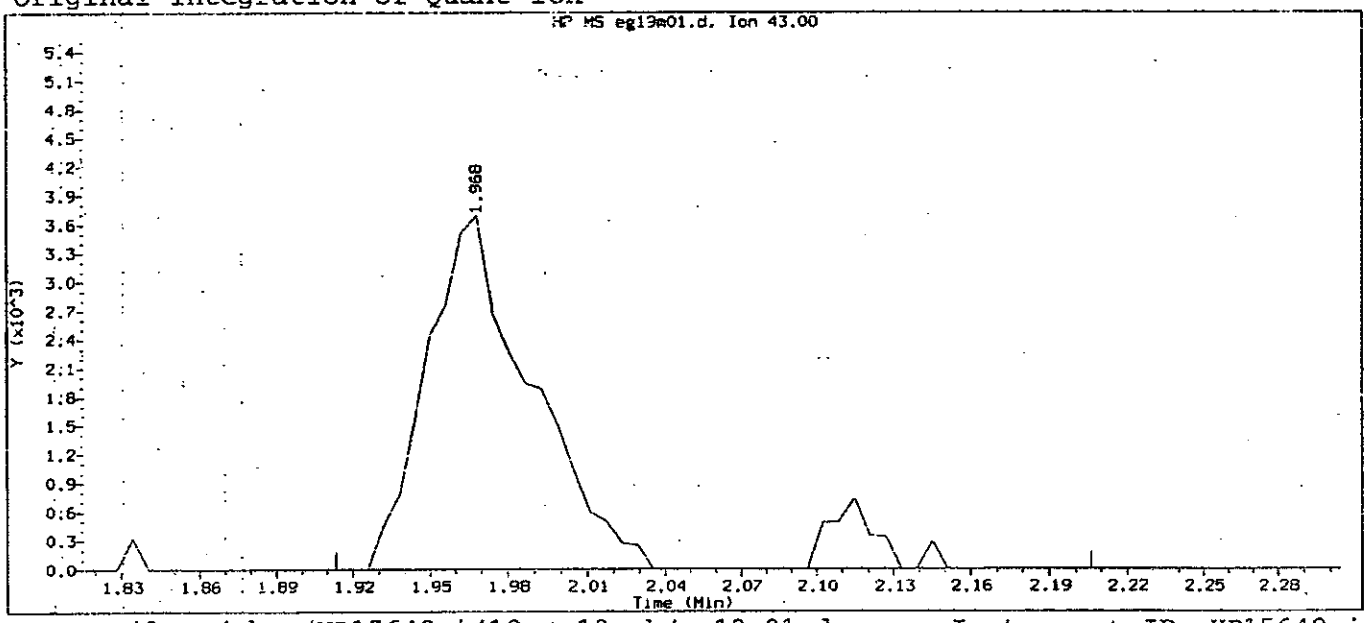
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: JMLong 8/20/10 PTL86 8483

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

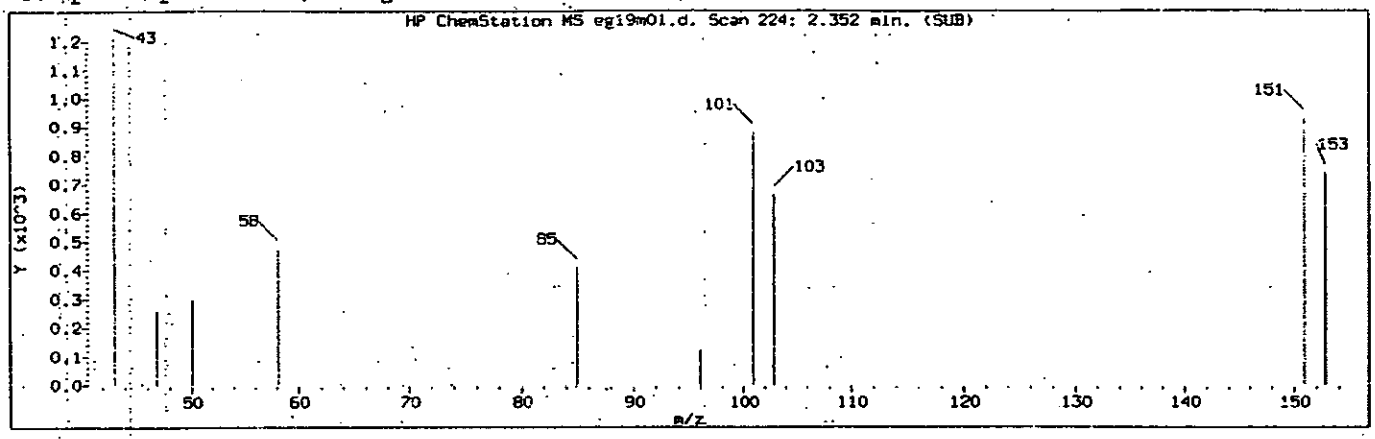
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 9		
Compound Name	: n-Pentane		
Scan Number	: 161		
Retention Time (minutes)	: 1.968		
Quant Ion	: 43.00		
Area	: 11245		
On-column Amount (ng)	: 0.9084		
Integration start scan	: 151	Integration stop scan:	199
Y at integration start	: 0	Y at integration end:	0

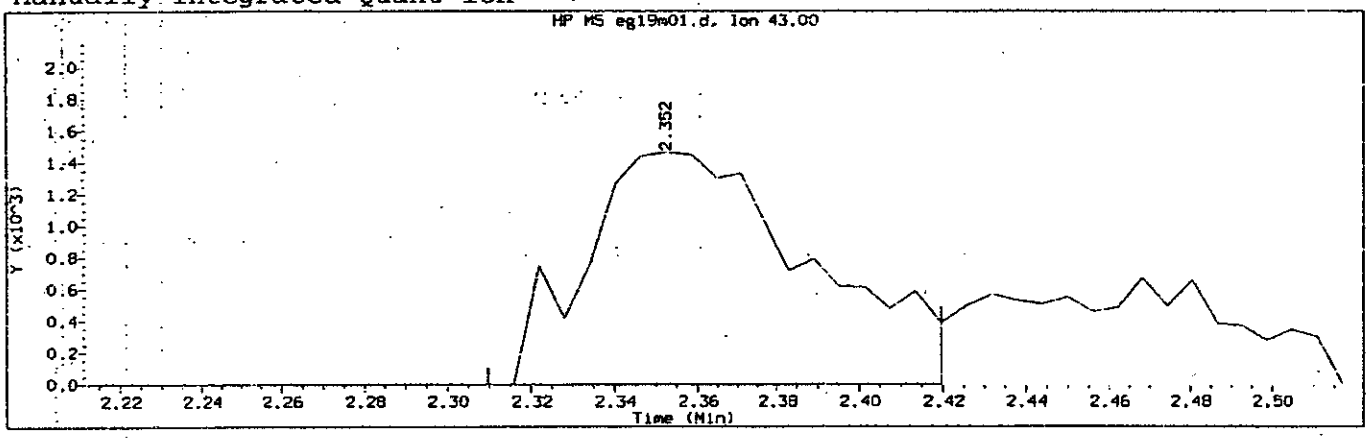
PTL86 0484

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

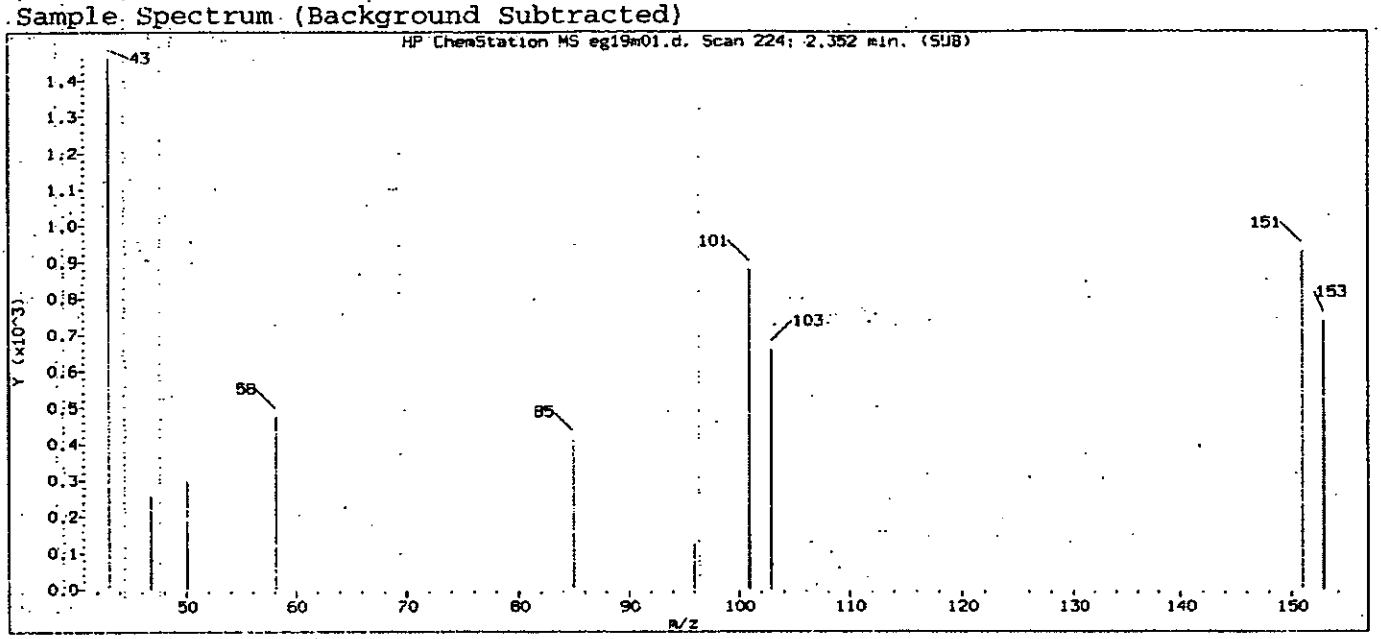
Compound Number : 16
Compound Name : Acetone
Scan Number : 224
Retention Time (minutes): 2.352
Quant Ion : 43.00
Area (flag) : 5628M
On-Column Amount (ng) : 2.6738
Integration start scan : 216 Integration stop scan: 234
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

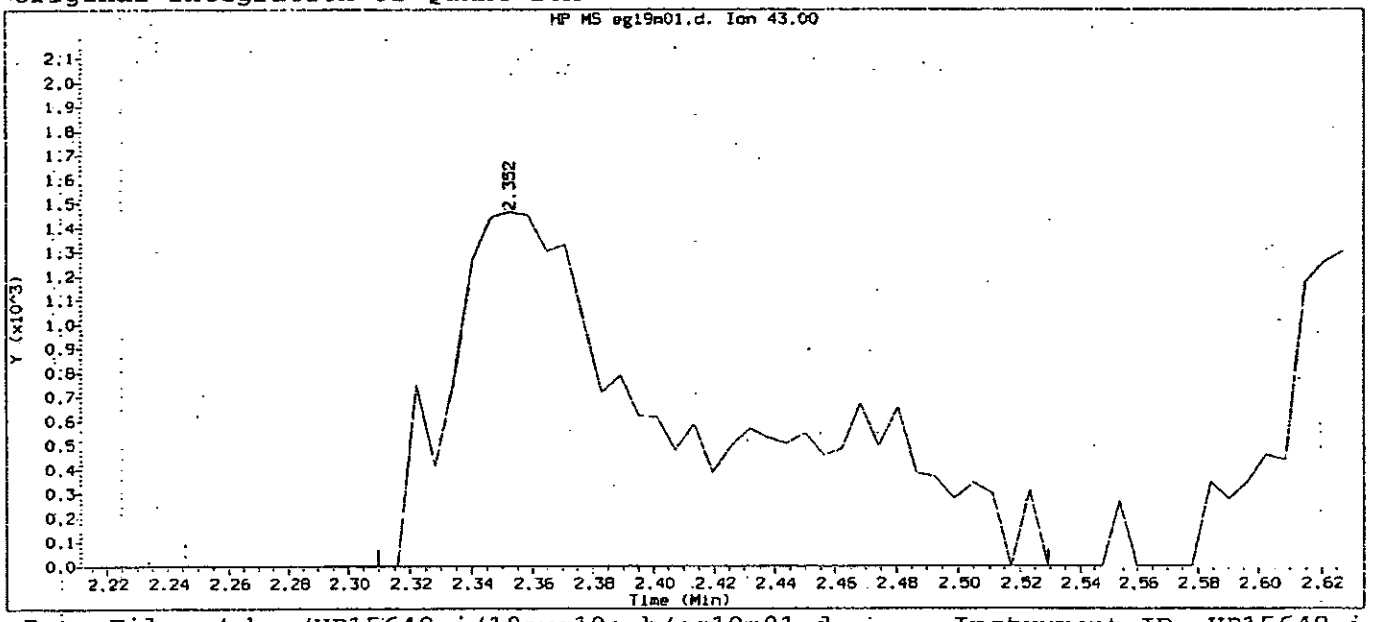
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [signature] 8/20/10 PTL86 9405

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

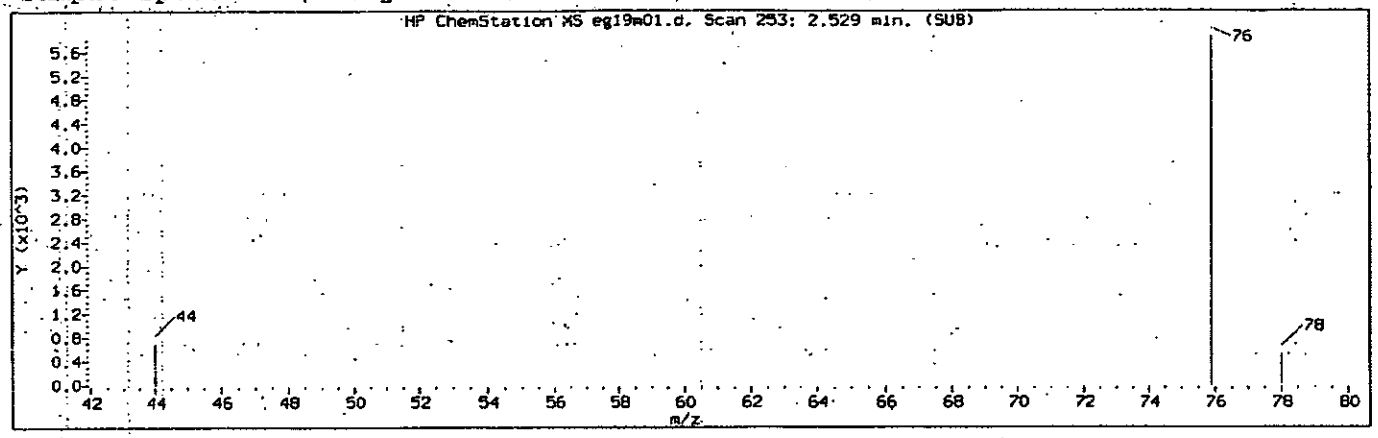
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 16
Compound Name : Acetone
Scan Number : 224
Retention Time (minutes): 2.352
Quant Ion : 43.00
Area : 8331
On-column Amount (ng) : 3.8570
Integration start scan : 216 Integration stop scan: 252
Y at integration start : 0 Y at integration end: 0

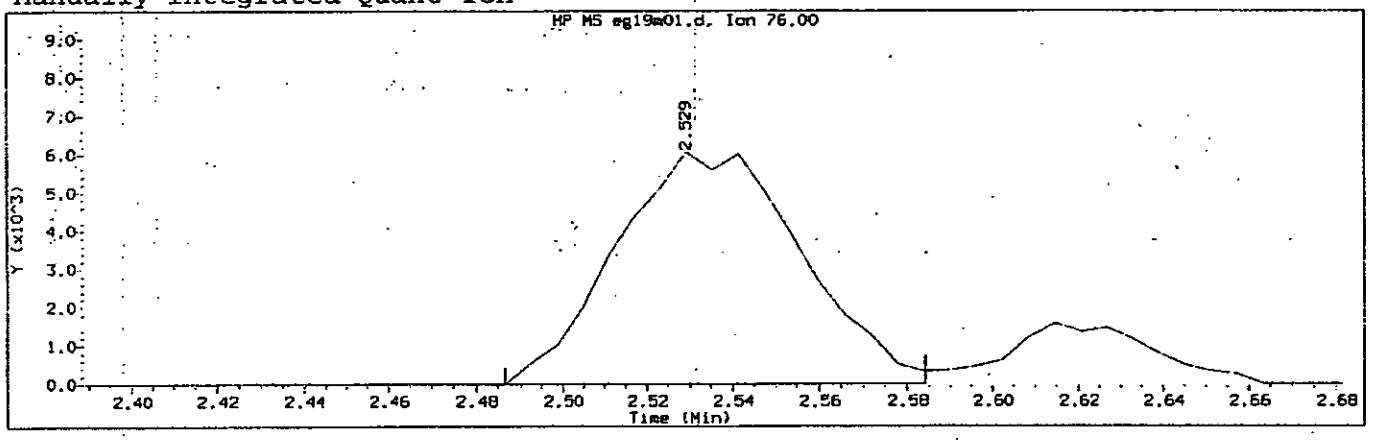
PTL05 0406

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 21		
Compound Name	: Carbon Disulfide		
Scan Number	: 253		
Retention Time (minutes)	: 2.529		
Quant Ion	: 76.00		
Area (flag)	: 18150M		
On-Column Amount (ng)	: 0.9929		
Integration start scan	: 245	Integration stop scan:	261
Y at integration start	: 0	Y at integration end:	0

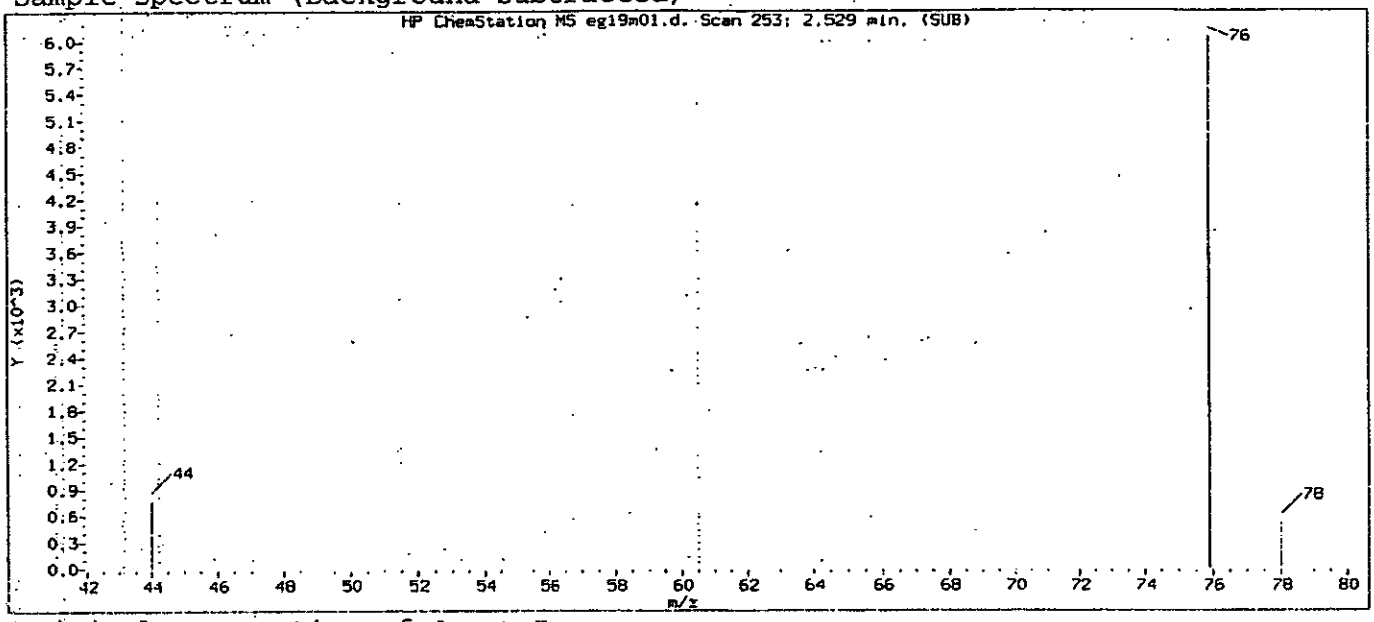
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

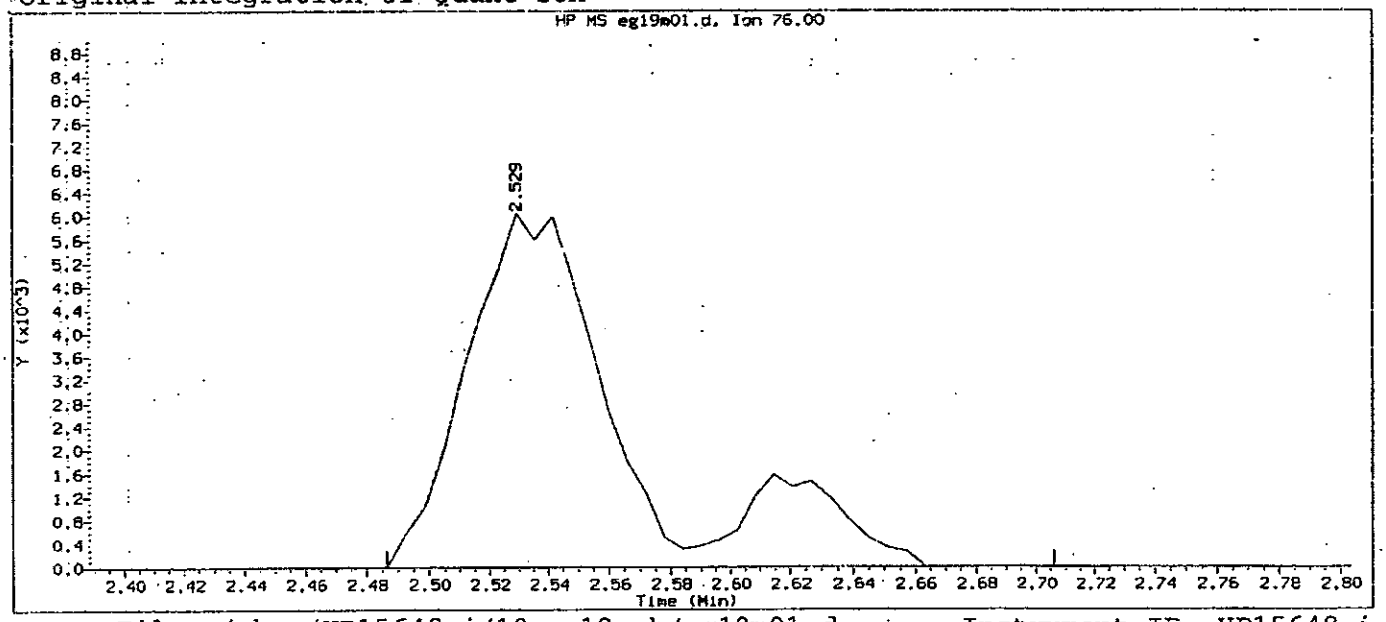
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0487

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

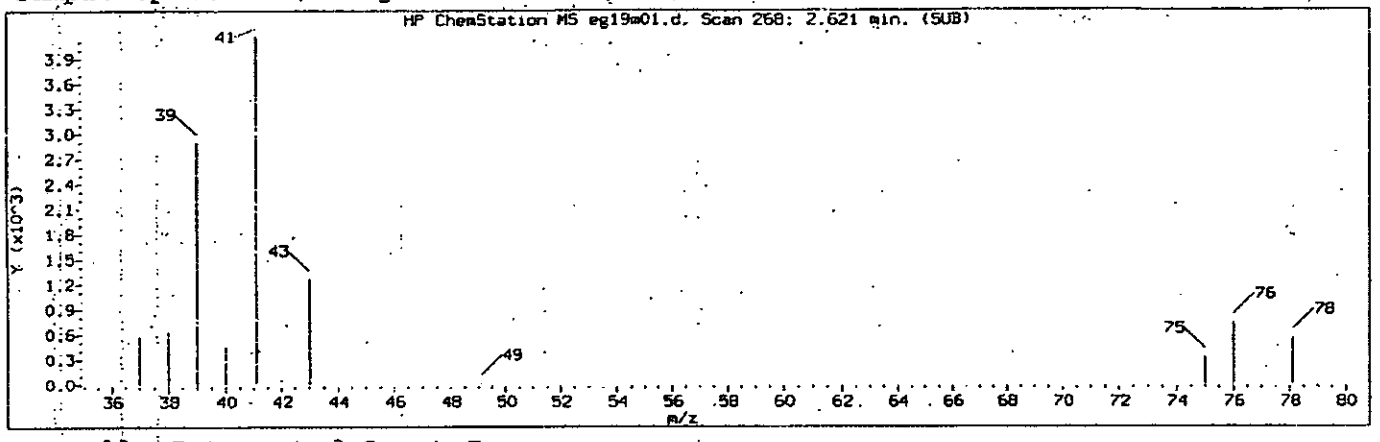
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 21		
Compound Name	: Carbon Disulfide		
Scan Number	: 253		
Retention Time (minutes)	: 2.529		
Quant Ion	: 76.00		
Area	: 21868		
On-column Amount (ng)	: 1.0732		
Integration start scan	: 245	Integration stop scan:	281
Y at integration start	: 0	Y at integration end:	0

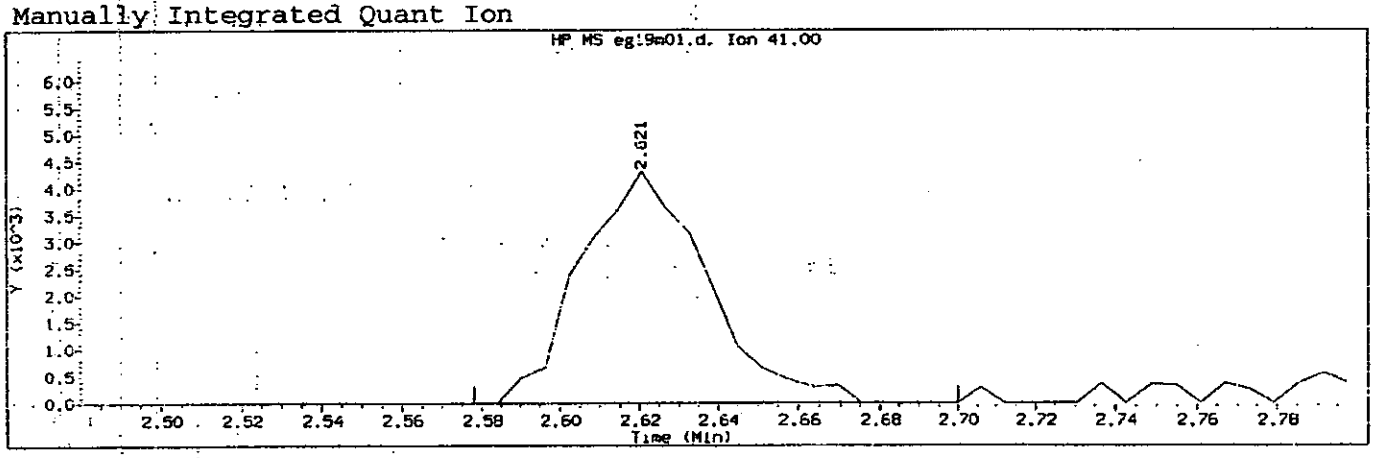
PTL86 0408

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

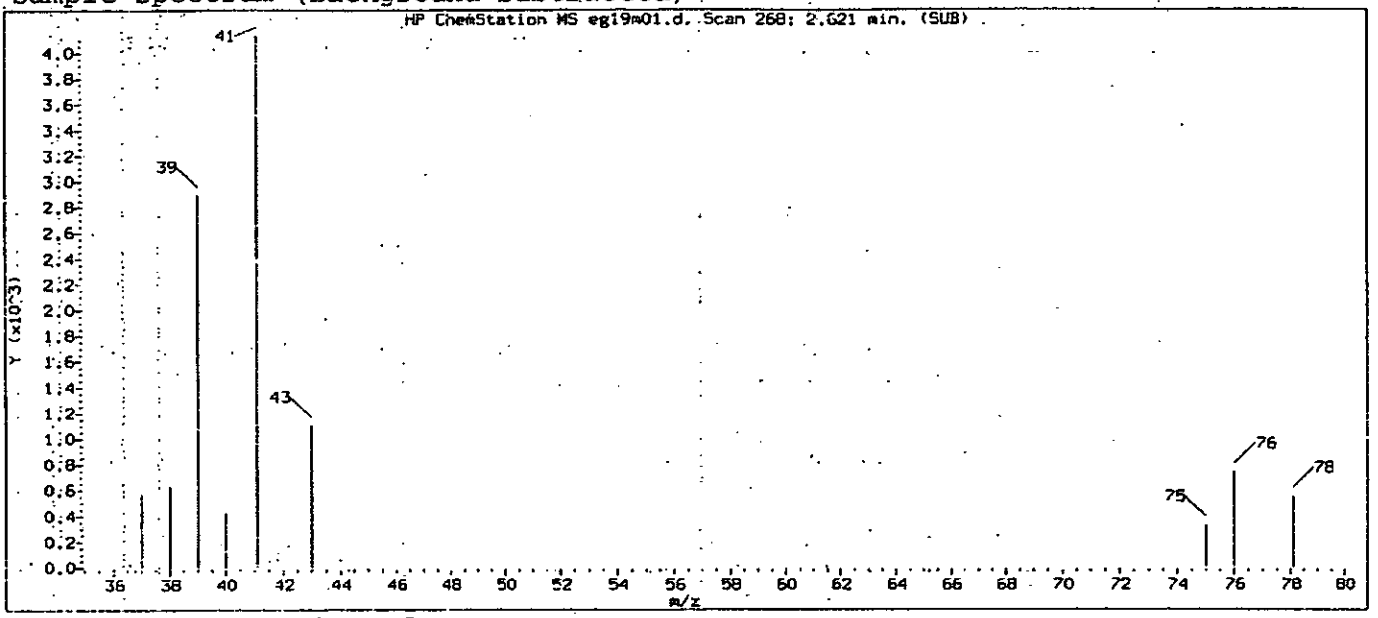
Compound Number	: 22		
Compound Name	: Allyl Chloride		
Scan Number	: 268		
Retention Time (minutes)	: 2.621		
Quant Ion	: 41.00		
Area (flag)	: 9572M		
On-Column Amount (ng)	: 0.8981		
Integration start scan	: 260	Integration stop scan:	280
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

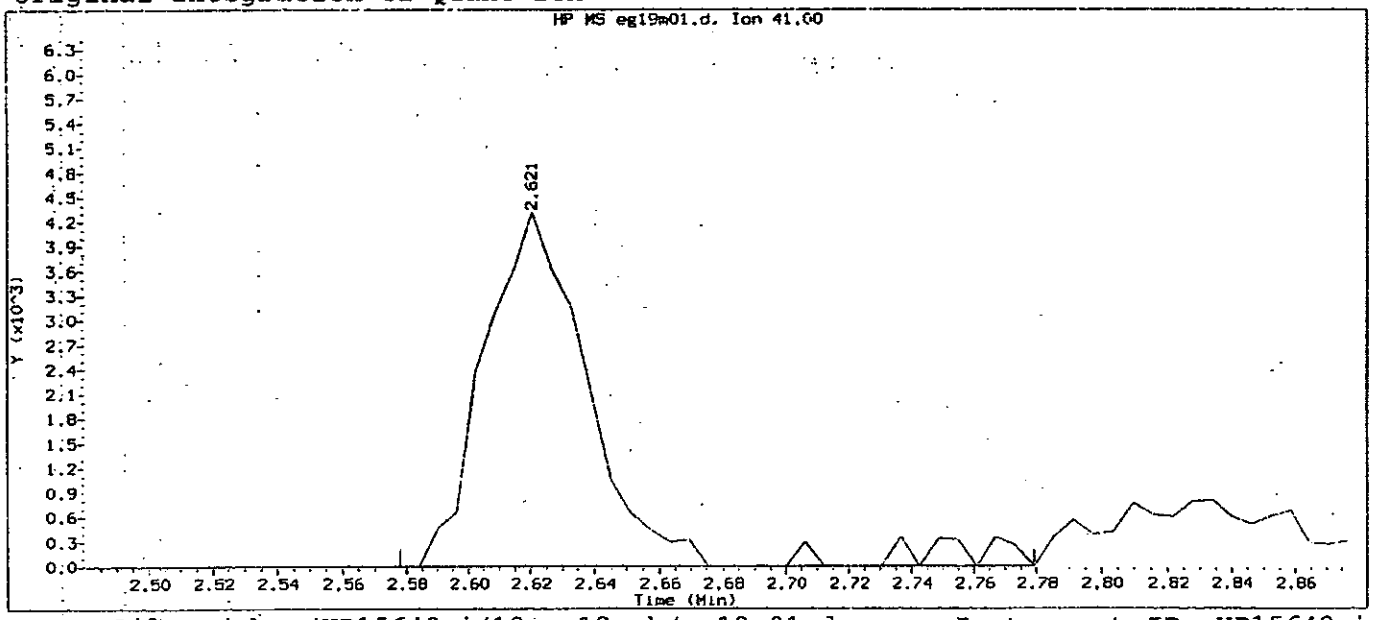
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [signature] 8/20/10 PTL86 8489

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

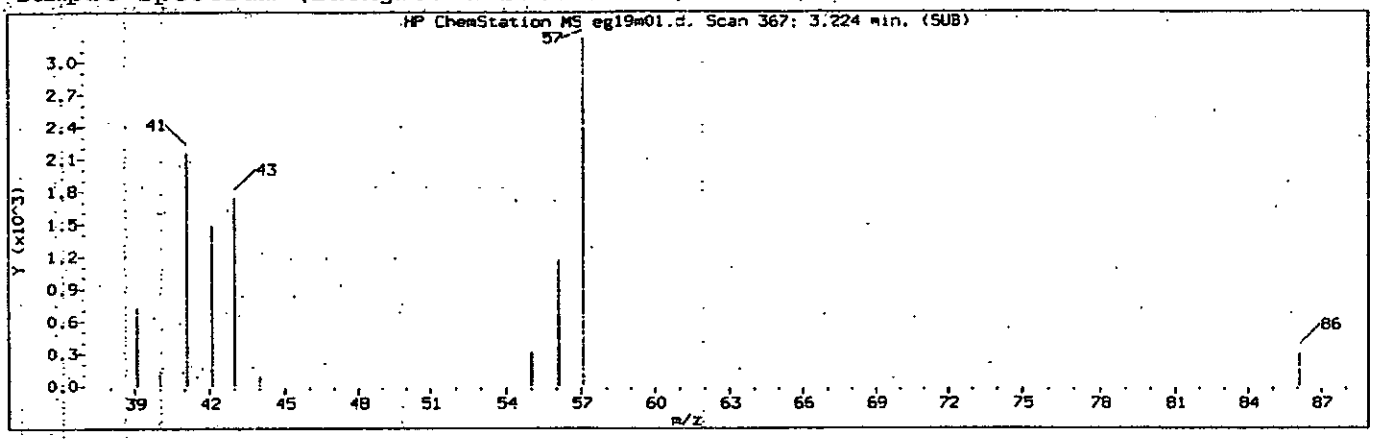
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 22
Compound Name : Allyl Chloride
Scan Number : 268
Retention Time (minutes): 2.621
Quant Ion : 41.00
Area : 10280
On-column Amount (ng) : 0.9645
Integration start scan : 260 Integration stop scan: 293
Y at integration start : 0 Y at integration end: 0

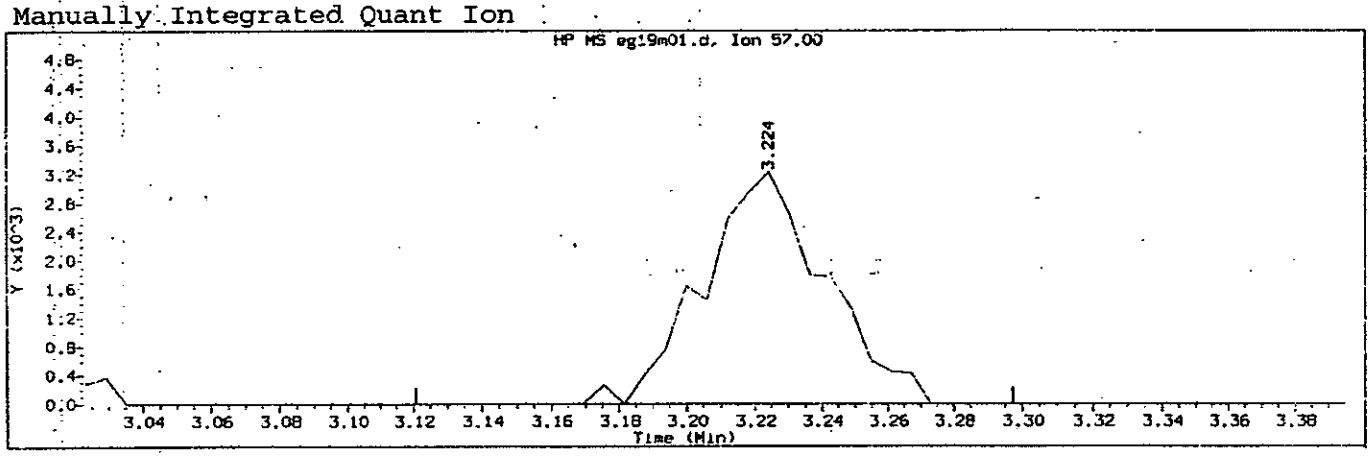
PTL86 8419

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 31		
Compound Name	: n-Hexane		
Scan Number	: 367		
Retention Time (minutes)	: 3.224		
Quant Ion	: 57.00		
Area (flag)	: 8155M		
On-Column Amount (ng)	: 0.7619		
Integration start scan	: 349	Integration stop scan:	378
Y at integration start	: 0	Y at integration end:	0

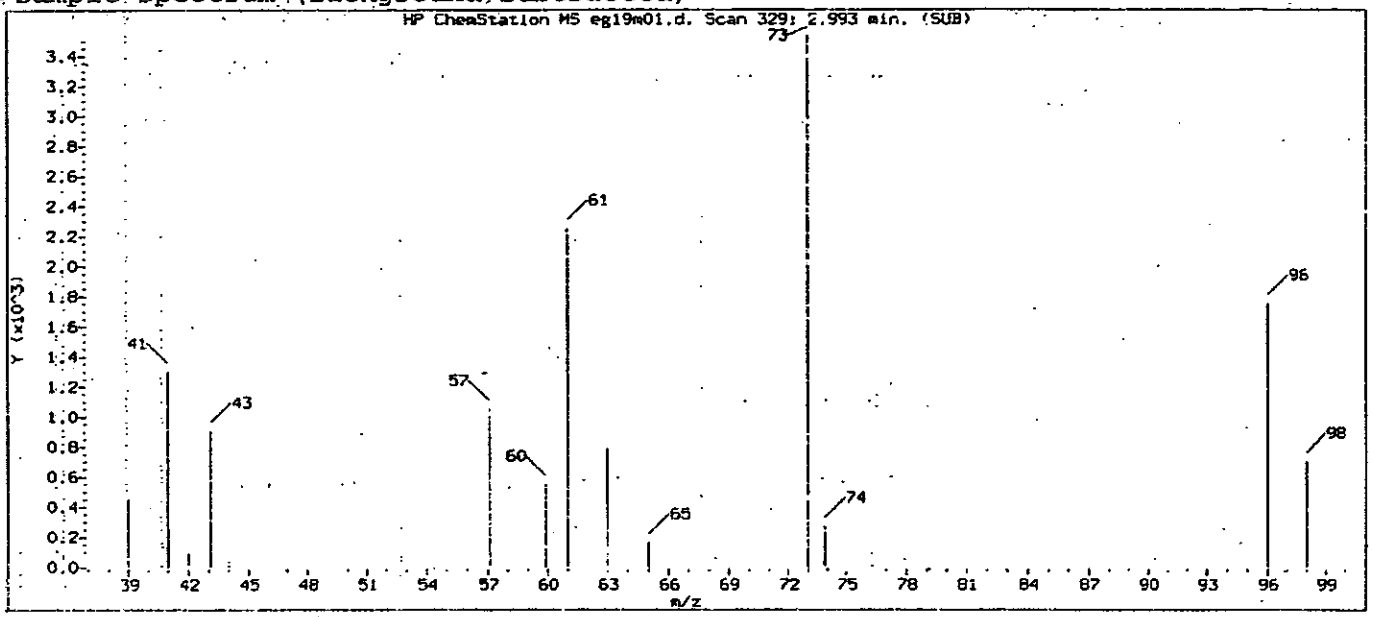
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

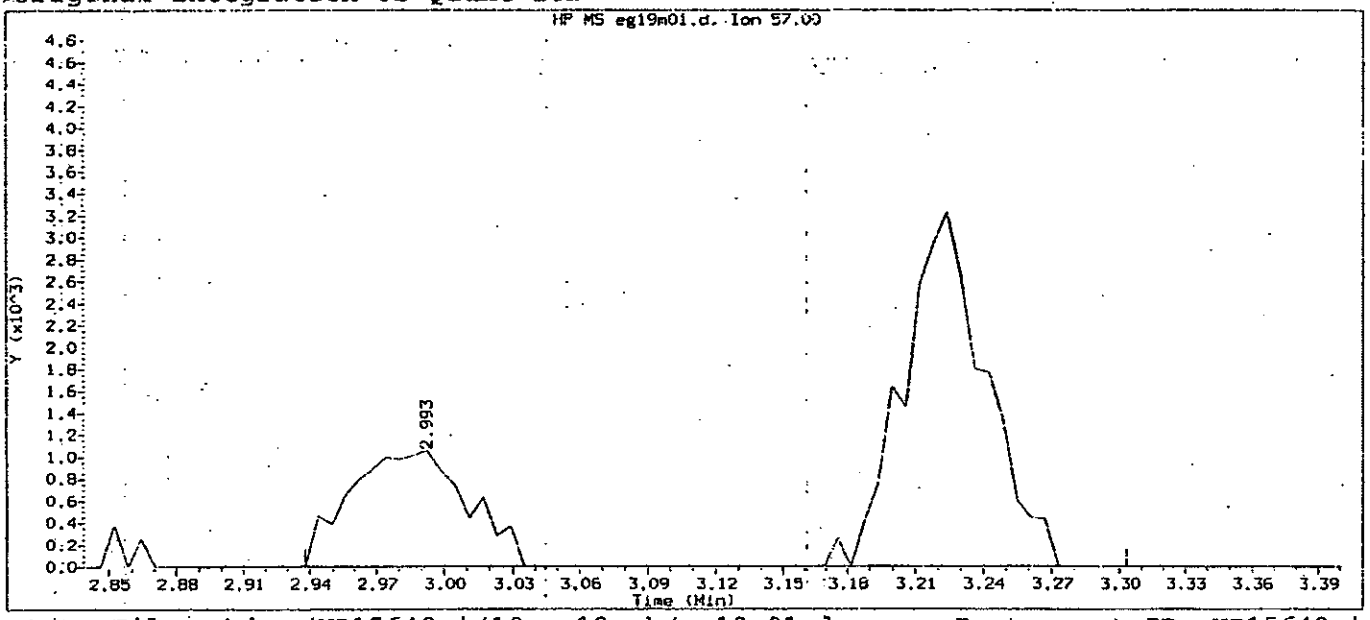
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8411

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

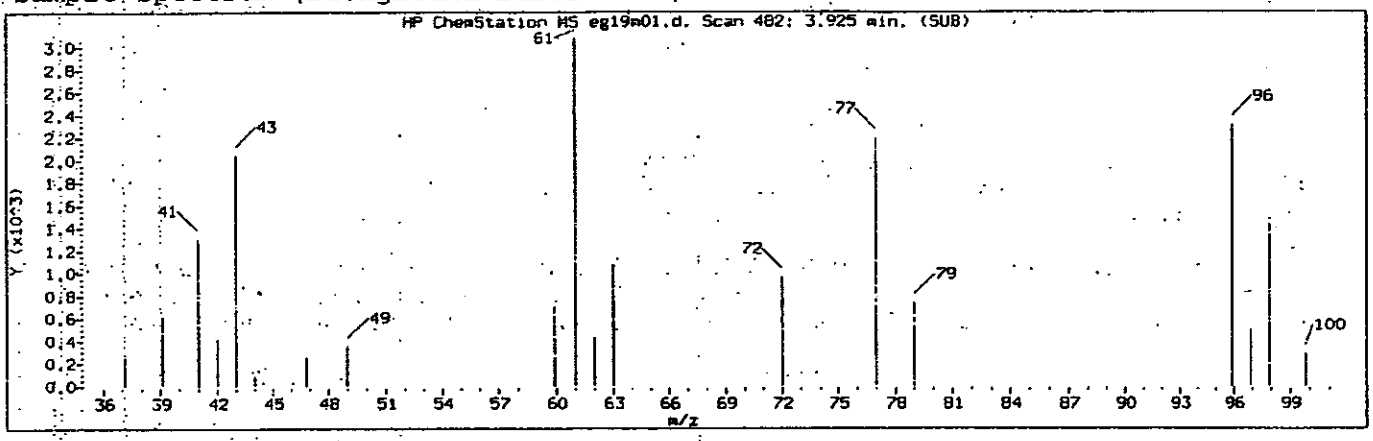
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 31		
Compound Name	: n-Hexane		
Scan Number	: 329		
Retention Time (minutes)	: 2.993		
Quant Ion	: 57.00		
Area	: 12015		
On-column Amount (ng)	: 1.1226		
Integration start scan	: 319	Integration stop scan:	379
Y at integration start	: 0	Y at integration end:	0

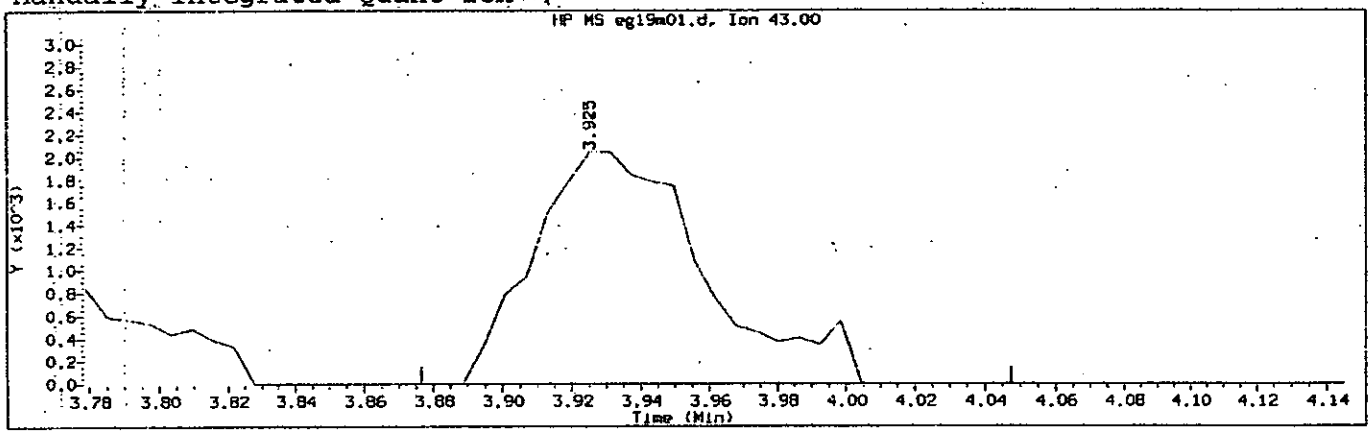
PTL86 0412

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

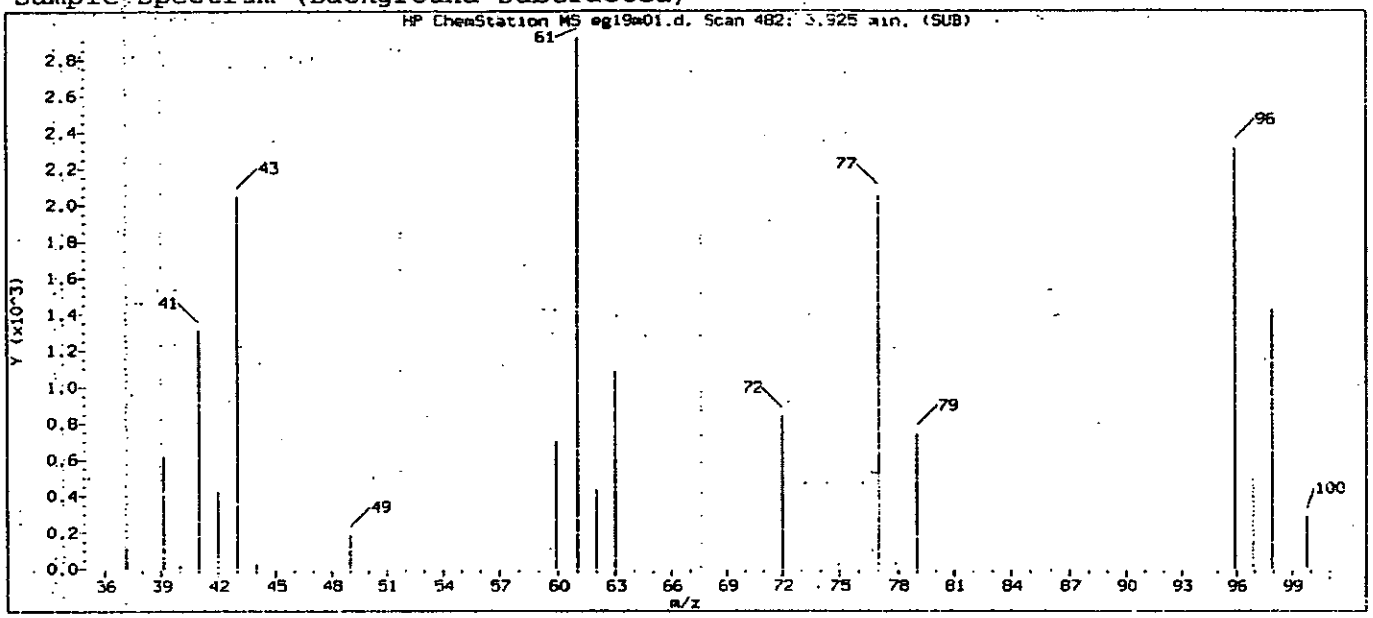
Compound Number : 40
Compound Name : 2-Butanone
Scan Number : 482
Retention Time (minutes): 3.925
Quant Ion : 43.00
Area (flag) : 7064M
On-Column Amount (ng) : 2.0001
Integration start scan : 473 Integration stop scan: 501
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

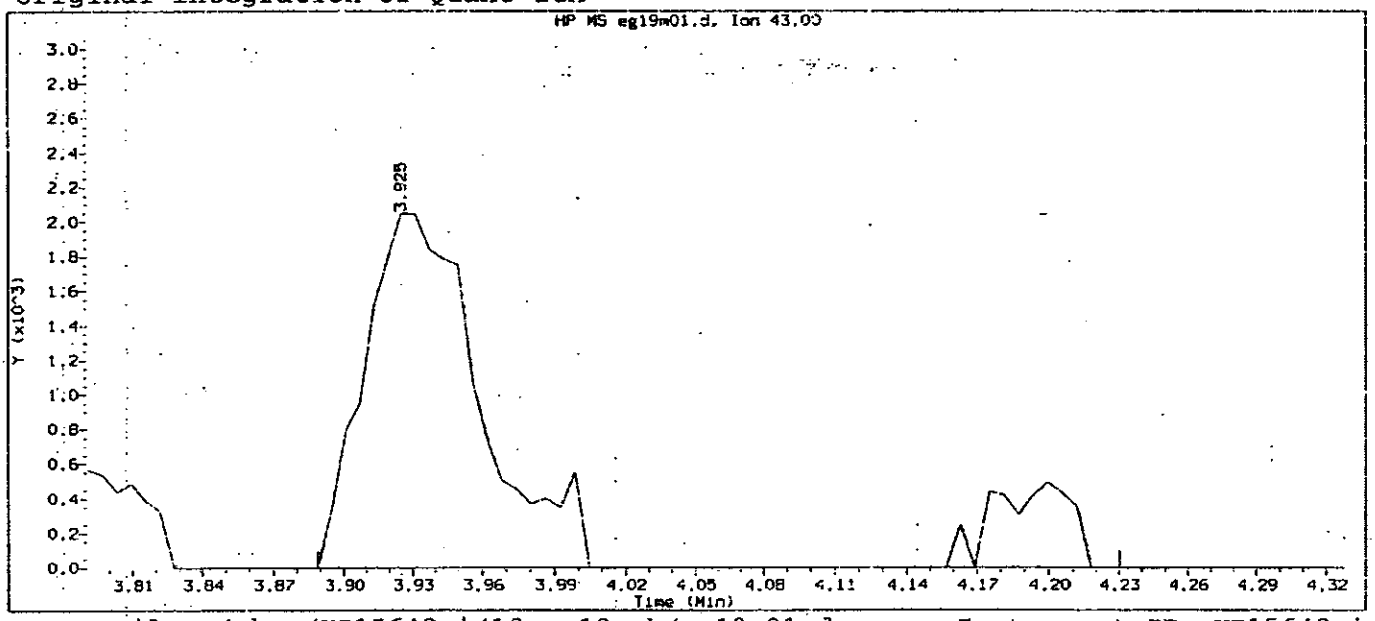
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval JMLong 8/20/10 PTL86 0413

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

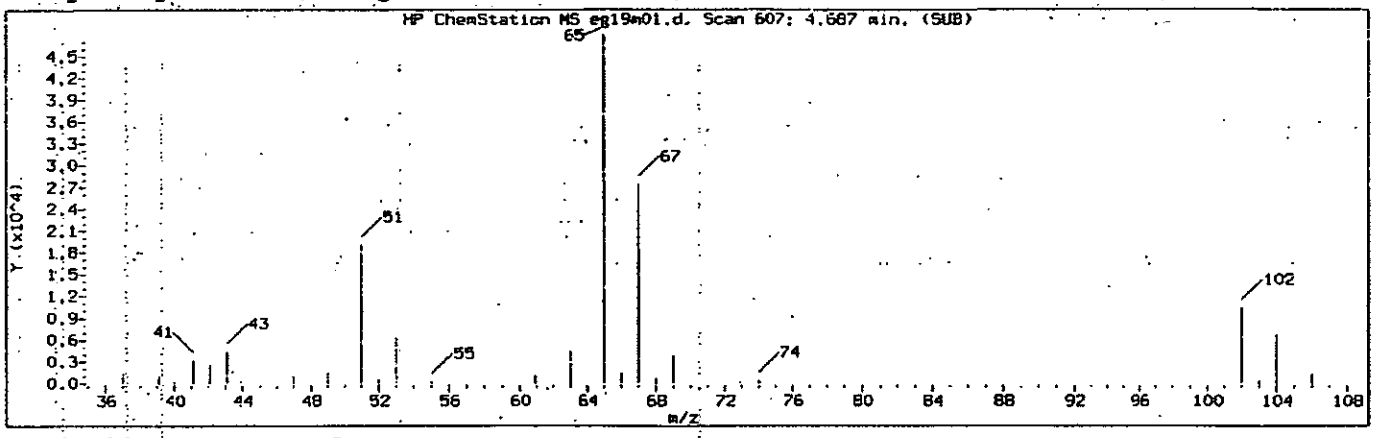
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 40
Compound Name : 2-Butanone
Scan Number : 482
Retention Time (minutes): 3.925
Quant Ion : 43.00
Area : 8199
On-column Amount (ng) : 2.1187
Integration start scan : 475 Integration stop scan: 531
Y at integration start : 0 Y at integration end: 0

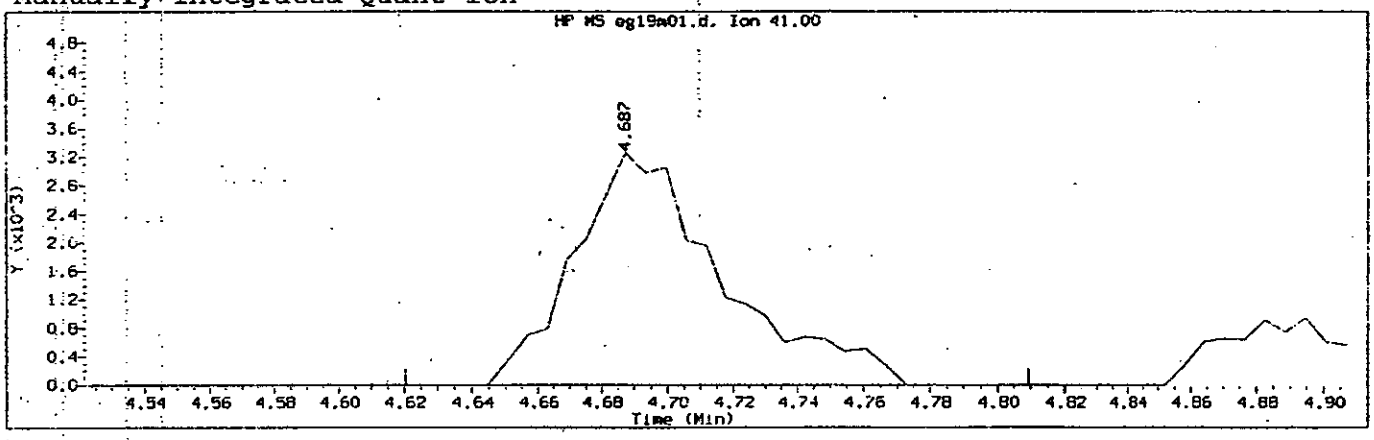
PTL86 8414

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	:	58
Compound Name	:	Isobutyl Alcohol
Scan Number	:	607
Retention Time (minutes)	:	4.687
Quant Ion	:	41.00
Area (flag)	:	10252MA
On-Column Amount (ng)	:	47.3012
Integration start scan	:	595
Integration stop scan	:	626
Y at integration start	:	0
Y at integration end	:	0

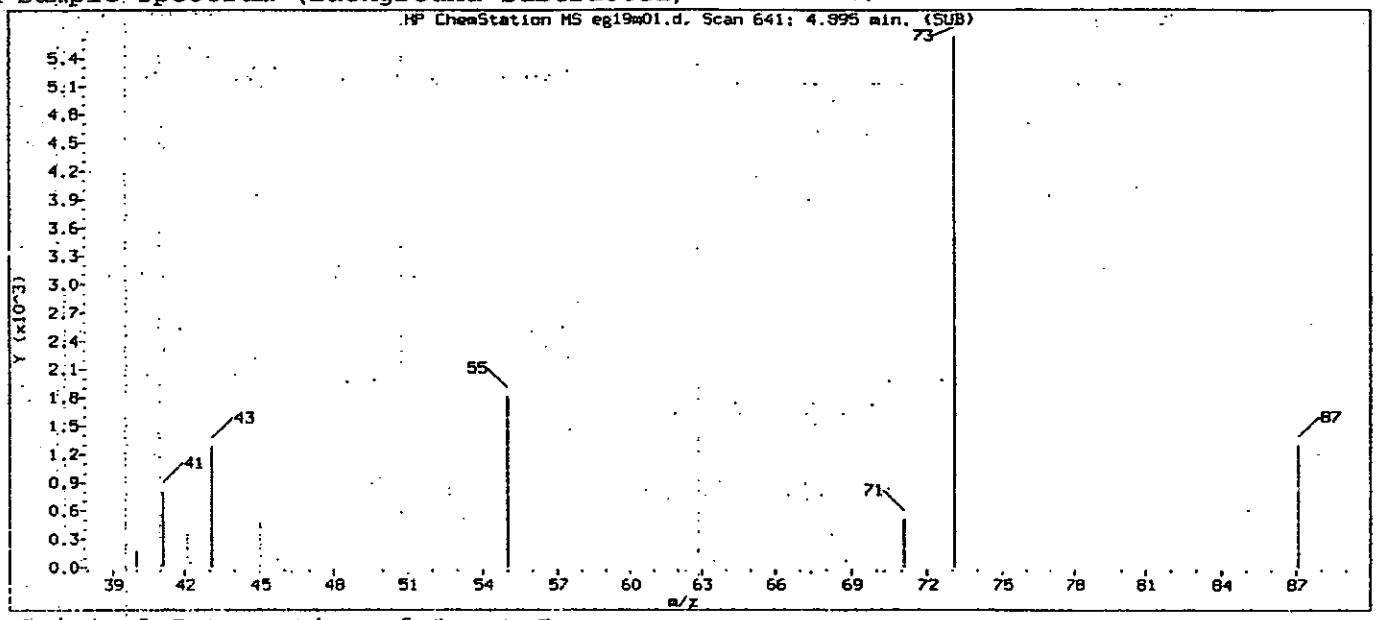
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

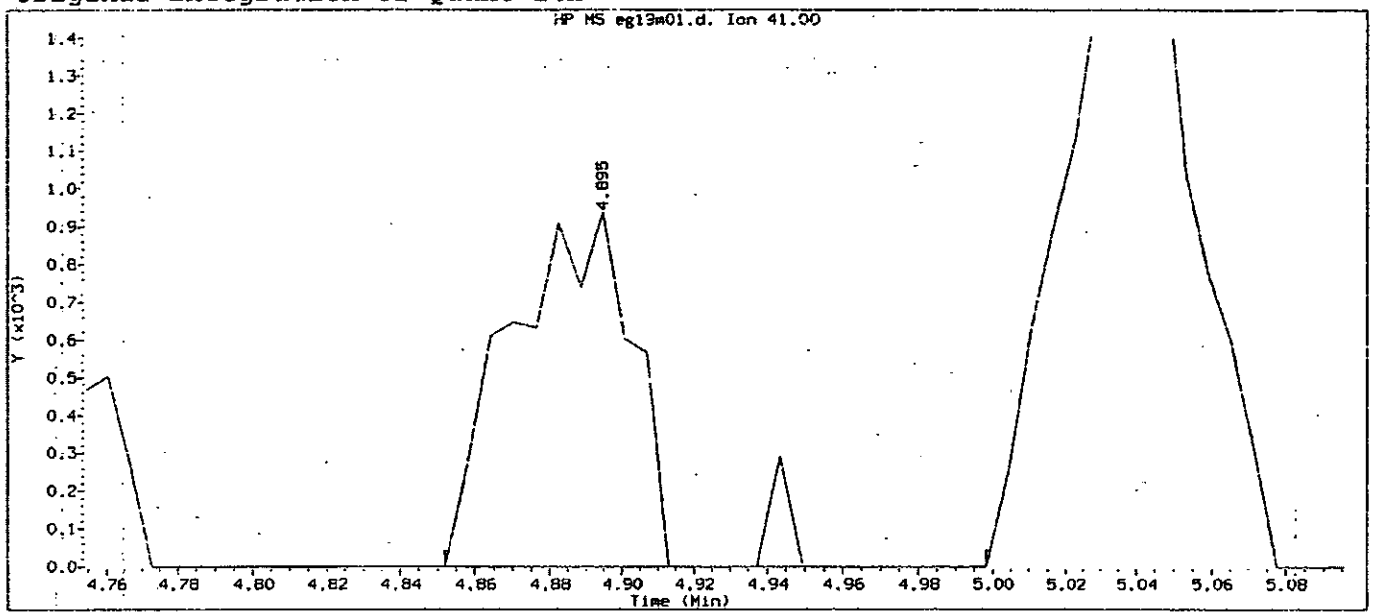
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 0415

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

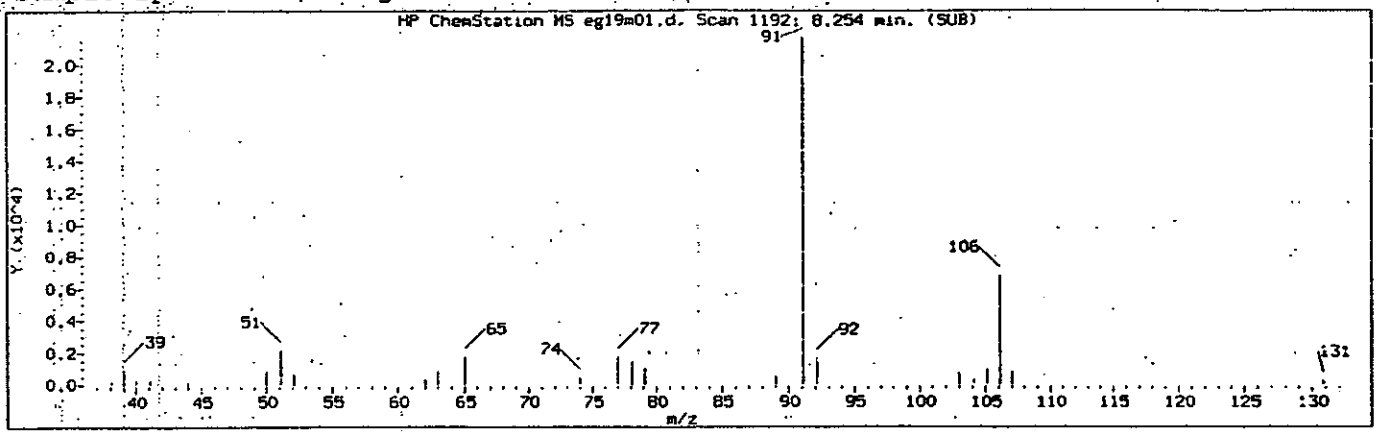
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 58		
Compound Name	: Isobutyl Alcohol		
Scan Number	: 641		
Retention Time (minutes)	: 4.895		
Quant Ion	: 41.00		
Area	: 2272		
On-column Amount (ng)	: 11.1205		
Integration start scan	: 633	Integration stop scan:	657
Y at integration start	: 0	Y at integration end:	0

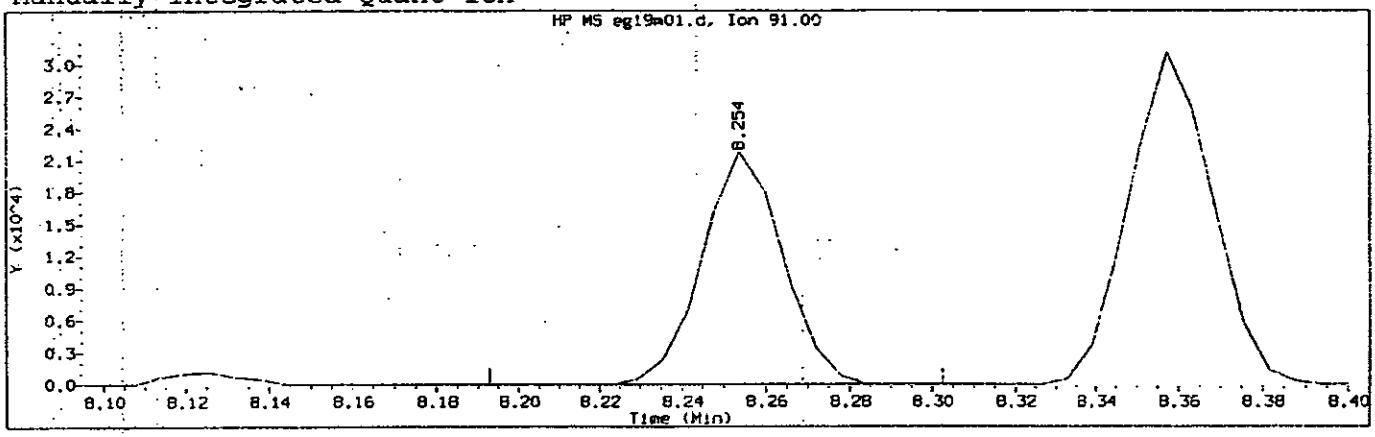
PTL06 8416

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

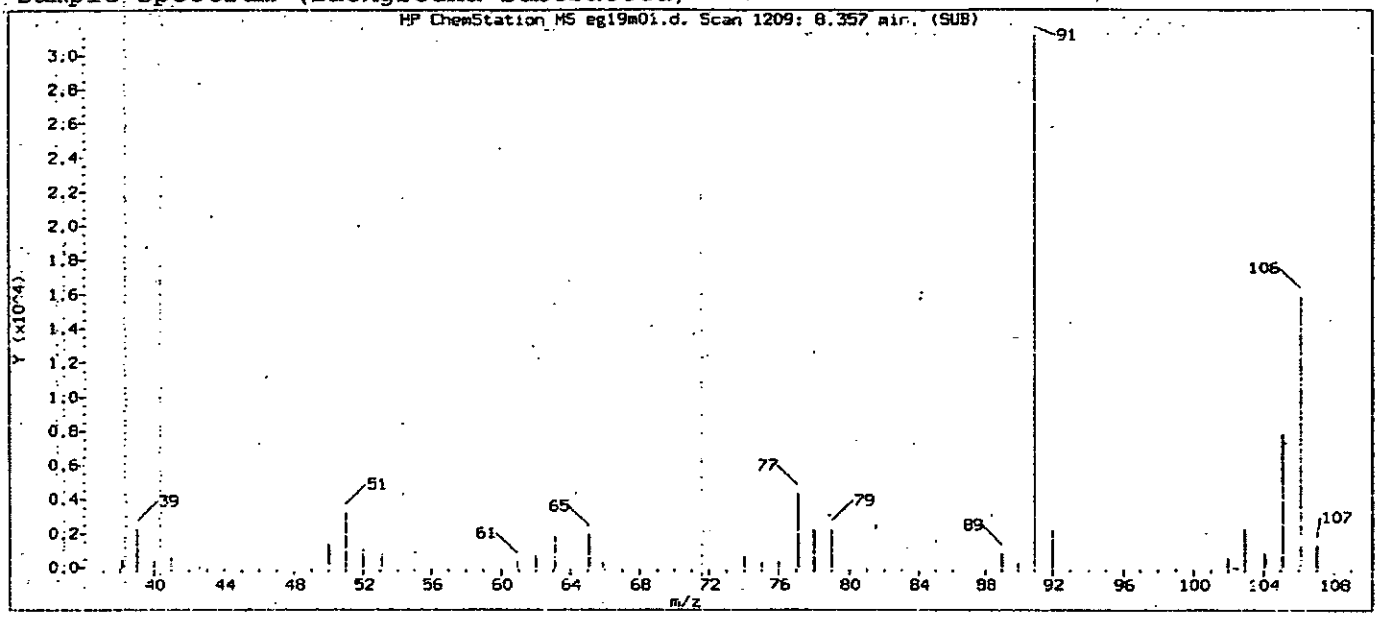
Compound Number : 107
Compound Name : Ethylbenzene
Scan Number : 1192
Retention Time (minutes): 8.254
Quant Ion : 91.00
Area (flag) : 29005M
On-Column Amount (ng) : 0.8237
Integration start scan : 1181 Integration stop scan: 1199
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

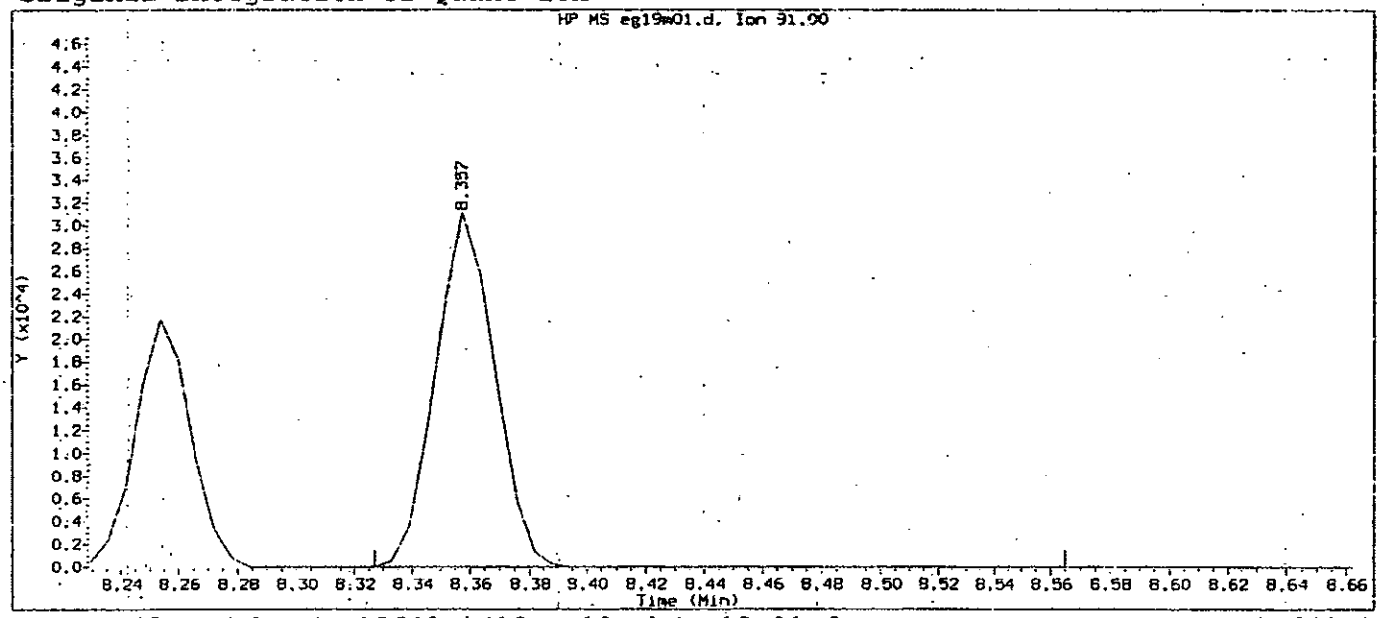
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 8/20/10 PTL86 8417

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

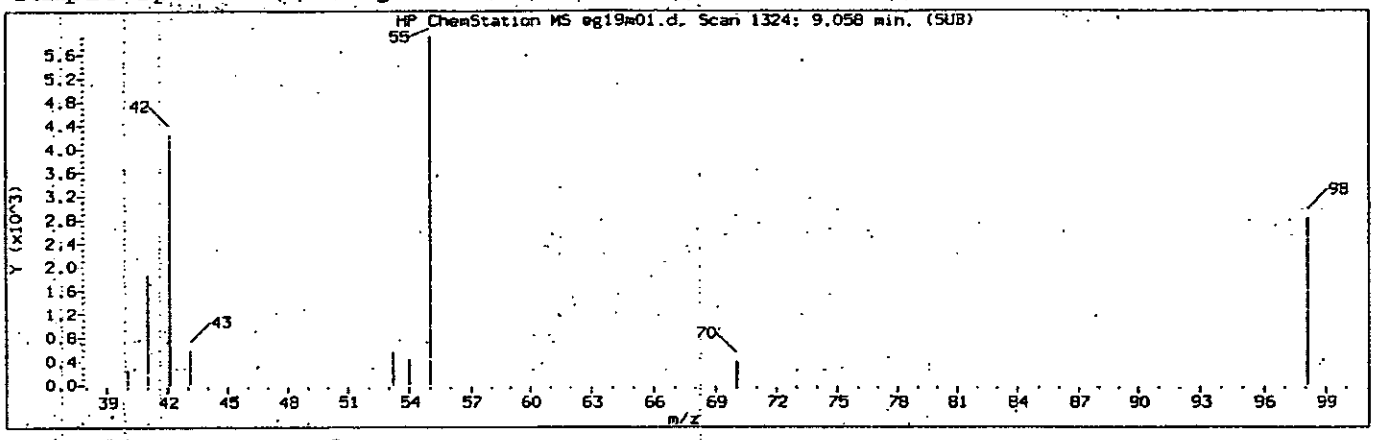
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 107		
Compound Name	: Ethylbenzene		
Scan Number	: 1209		
Retention Time (minutes)	: 8.357		
Quant Ion	: 91.00		
Area	: 43437		
On-column Amount (ng)	: 1.1431		
Integration start scan	: 1203	Integration stop scan:	1242
Y at integration start	: 0	Y at integration end:	0

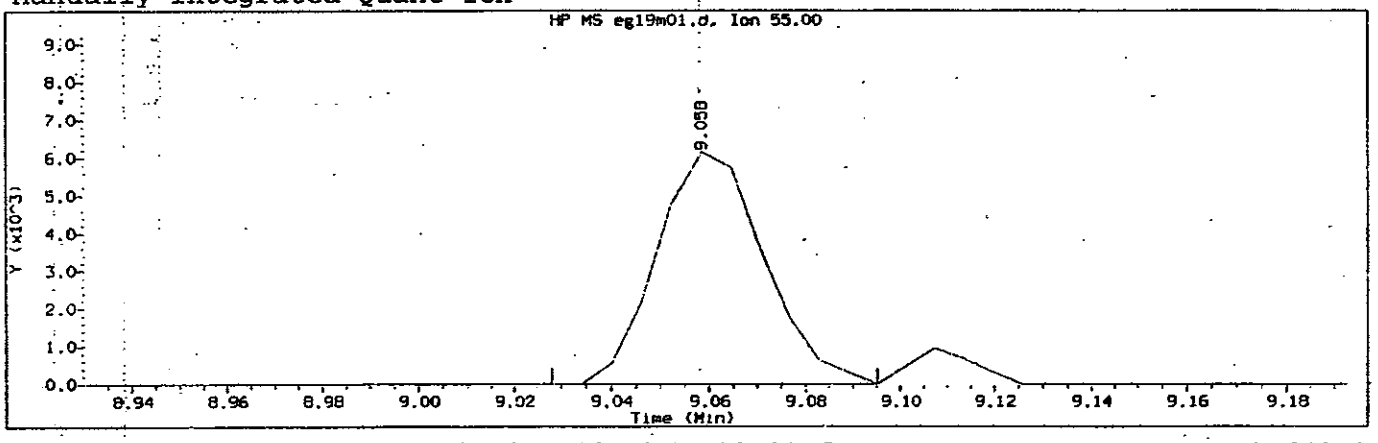
PTL06 0418

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

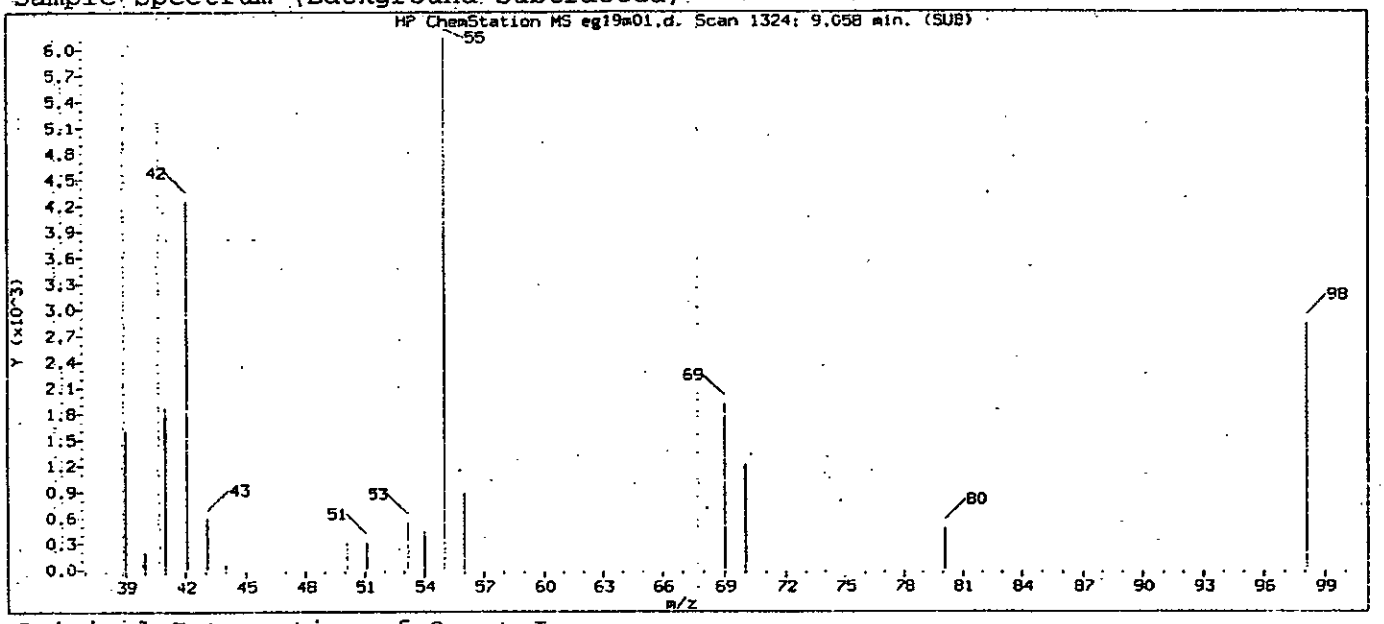
Compound Number : 115
Compound Name : Cyclohexanone
Scan Number : 1324
Retention Time (minutes): 9.058
Quant Ion : 55.00
Area (flag) : 9374M
On-Column Amount (ng) : 44.5283
Integration start scan : 1318 Integration stop scan: 1329
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

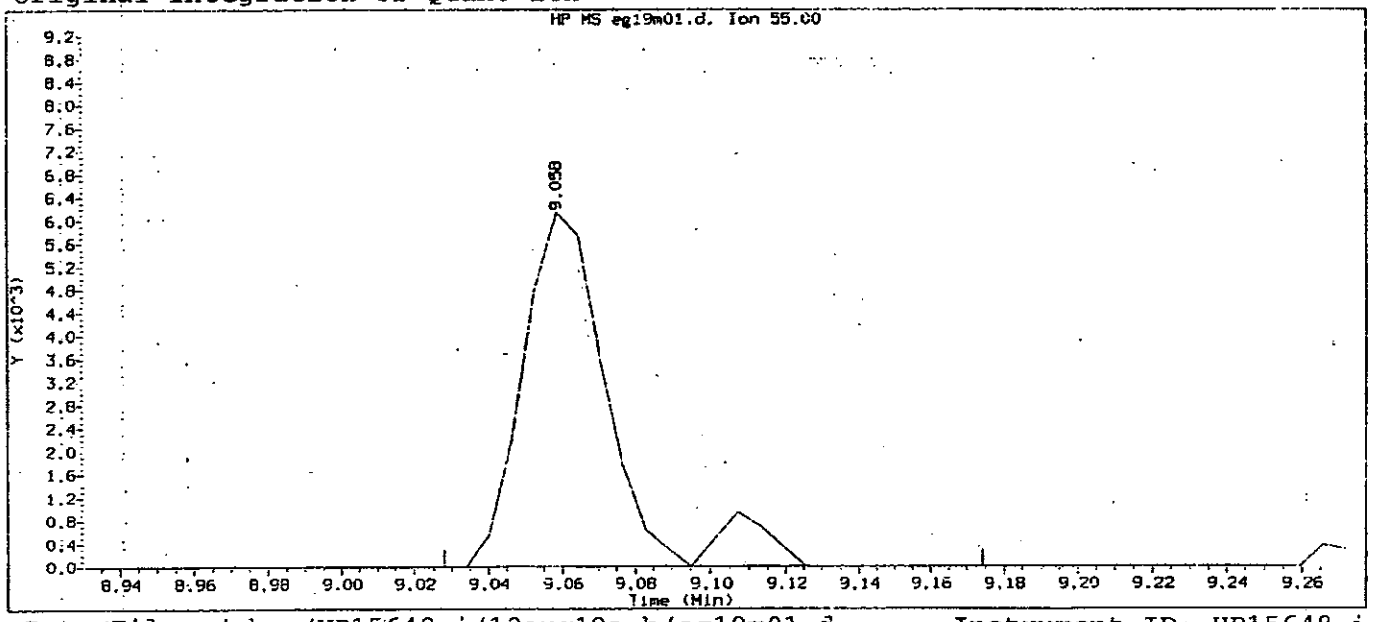
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 8/20/10 PTL86 8419

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

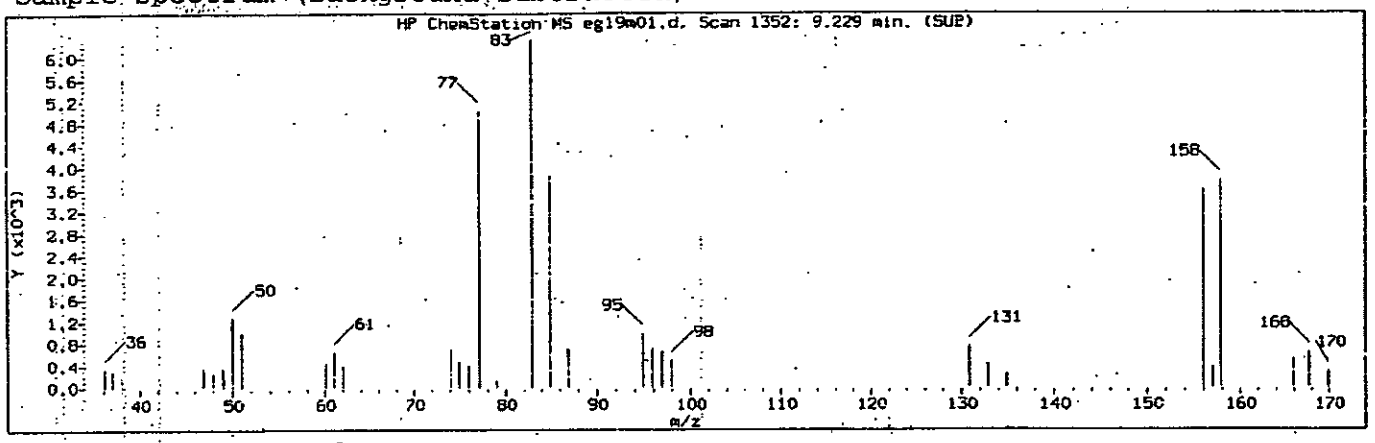
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 115
Compound Name : Cyclohexanone
Scan Number : 1324
Retention Time (minutes): 9.058
Quant Ion : 55.00
Area : 10259
On-column Amount (ng) : 51.6697
Integration start scan : 1318 Integration stop scan: 1342
Y at integration start : 0 Y at integration end: 0

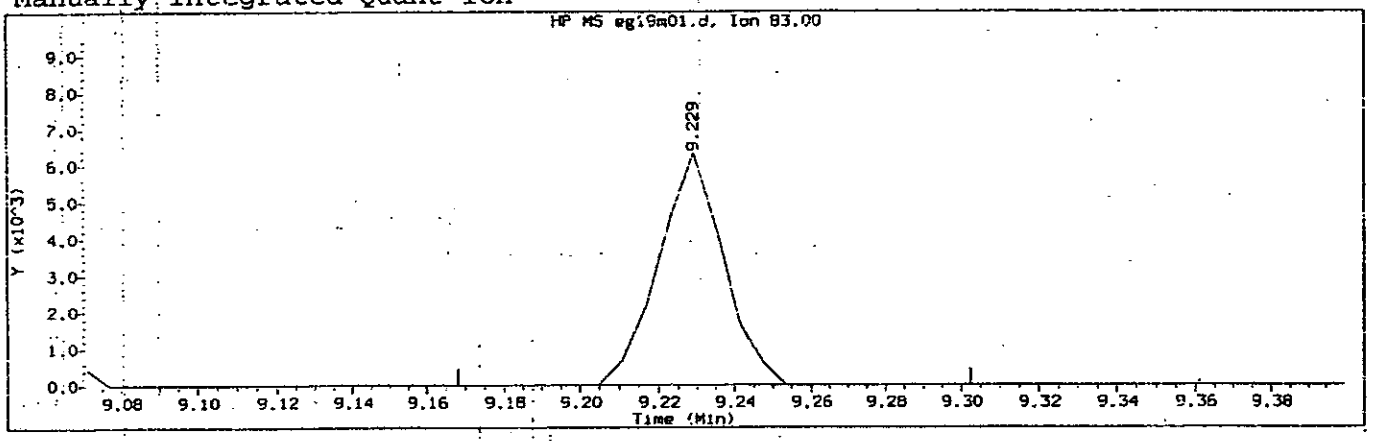
PTL06 8420

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 119
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1352
Retention Time (minutes): 9.229
Quant Ion : 83.00
Area (flag) : 7434M
On-Column Amount (ng) : 0.8629
Integration start scan : 1341 Integration stop scan: 1363
Y at integration start : 0 Y at integration end: 0

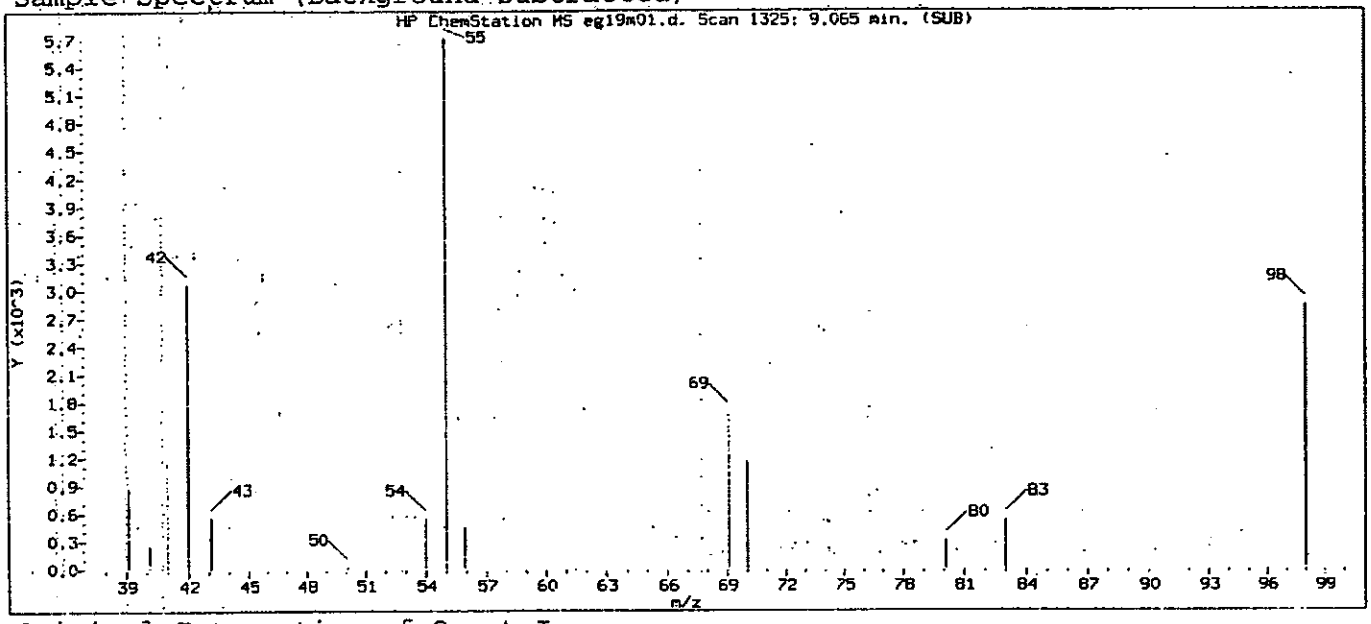
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

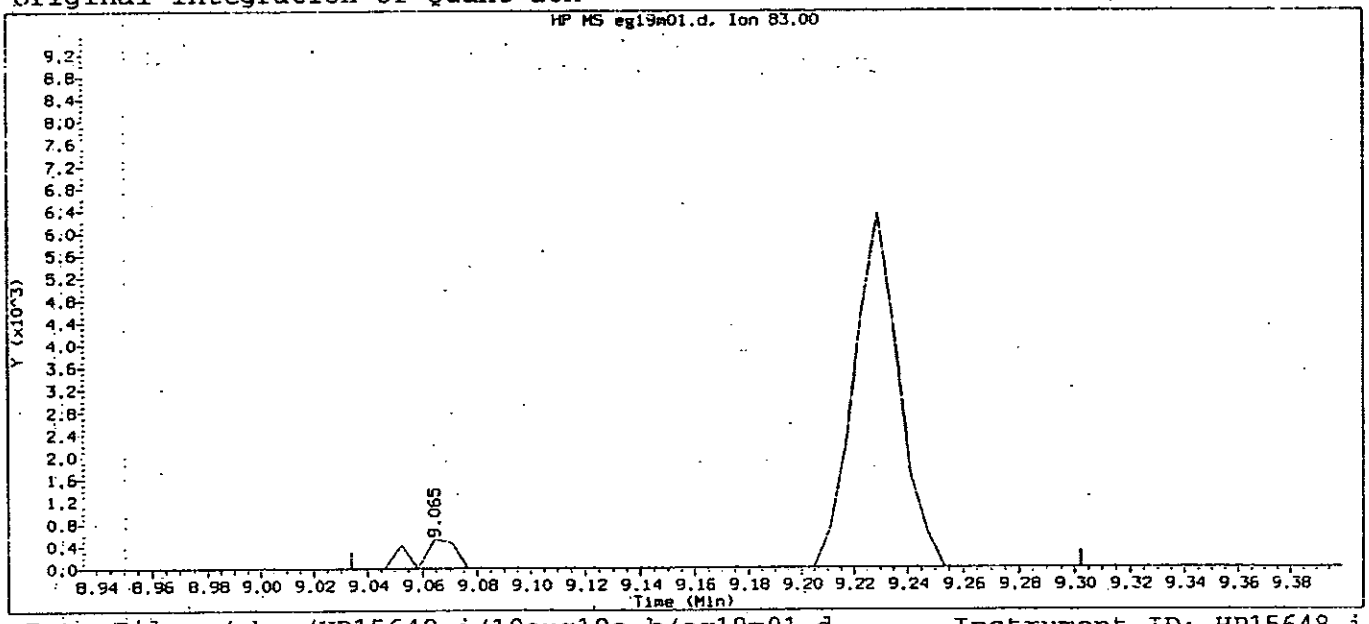
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8-21

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

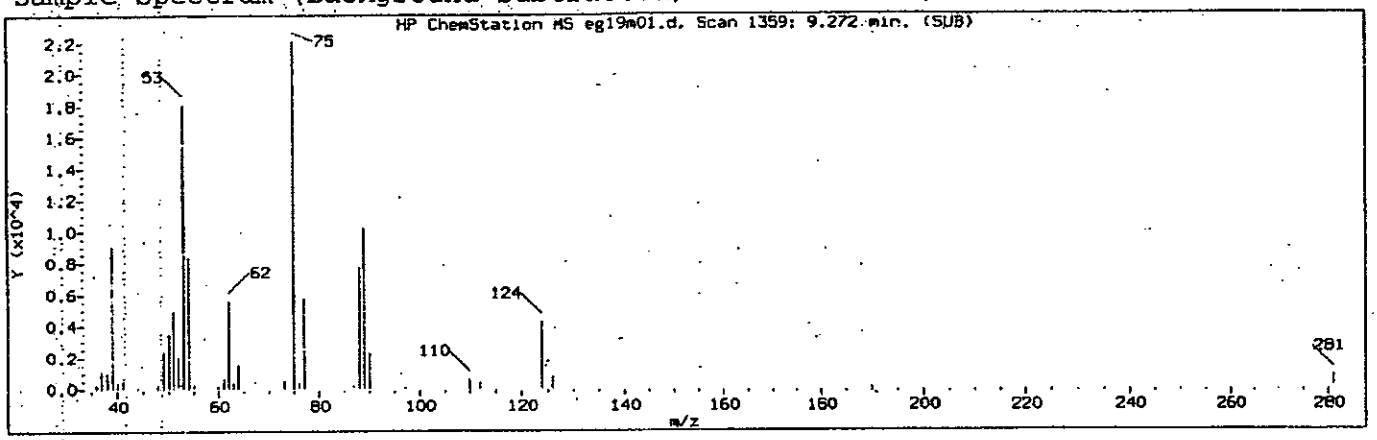
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 119
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1325
Retention Time (minutes): 9.065
Quant Ion : 83.00
Area : 7949
On-column Amount (ng) : 0.8943
Integration start scan : 1319 Integration stop scan: 1363
Y at integration start : 0 Y at integration end: 0

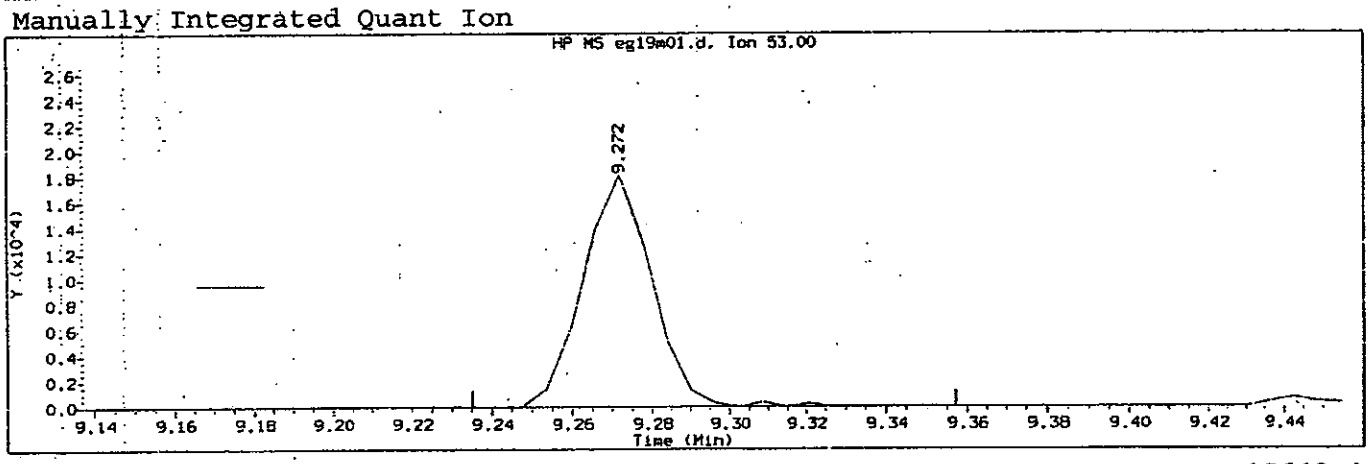
PTL86 0422

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 121		
Compound Name	: trans-1,4-Dichloro-2-Butene		
Scan Number	: 1359		
Retention Time (minutes)	: 9.272		
Quant Ion	: 53.00		
Area (flag)	: 21836M		
On-Column Amount (ng)	: 8.4570		
Integration start scan	: 1352	Integration stop scan:	1372
Y at integration start	: 0	Y at integration end:	0

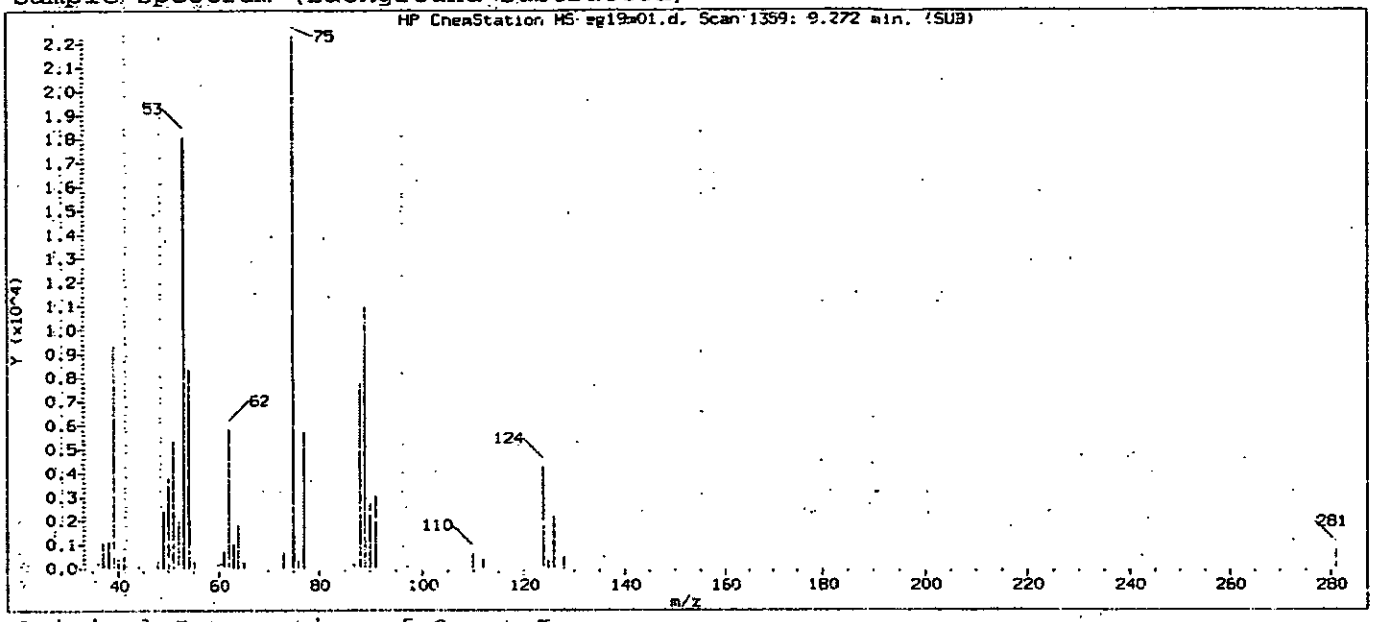
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

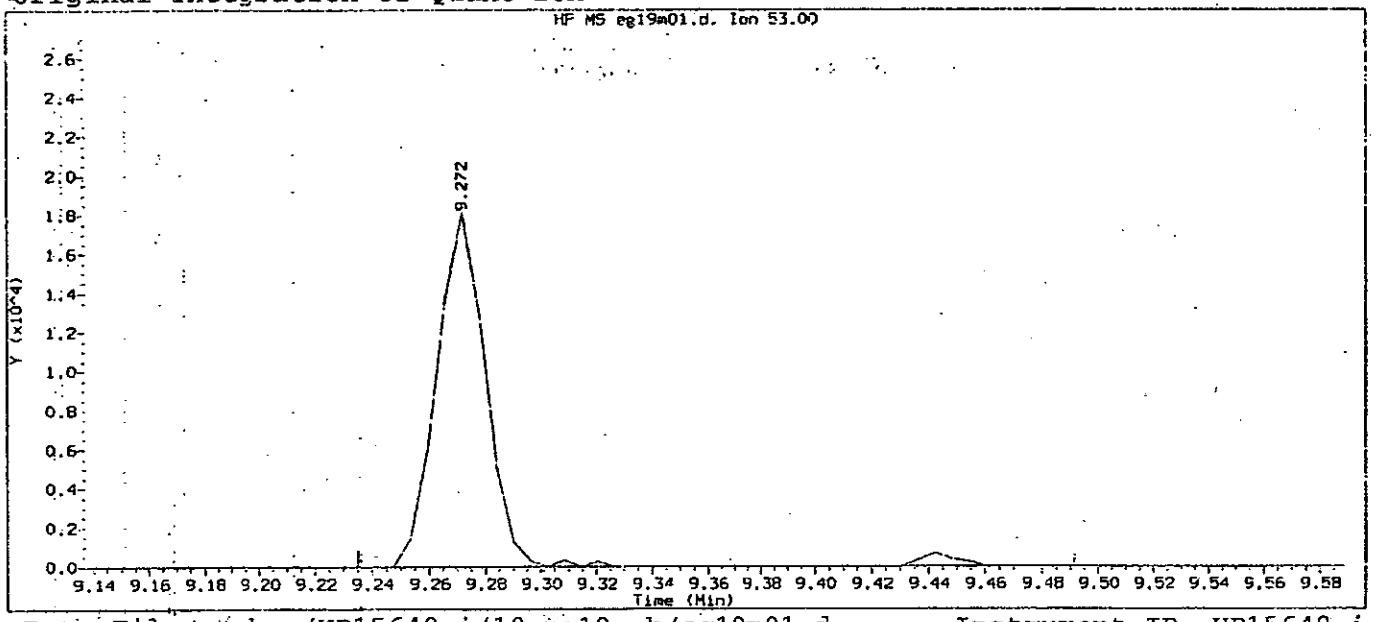
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0423

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01593

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

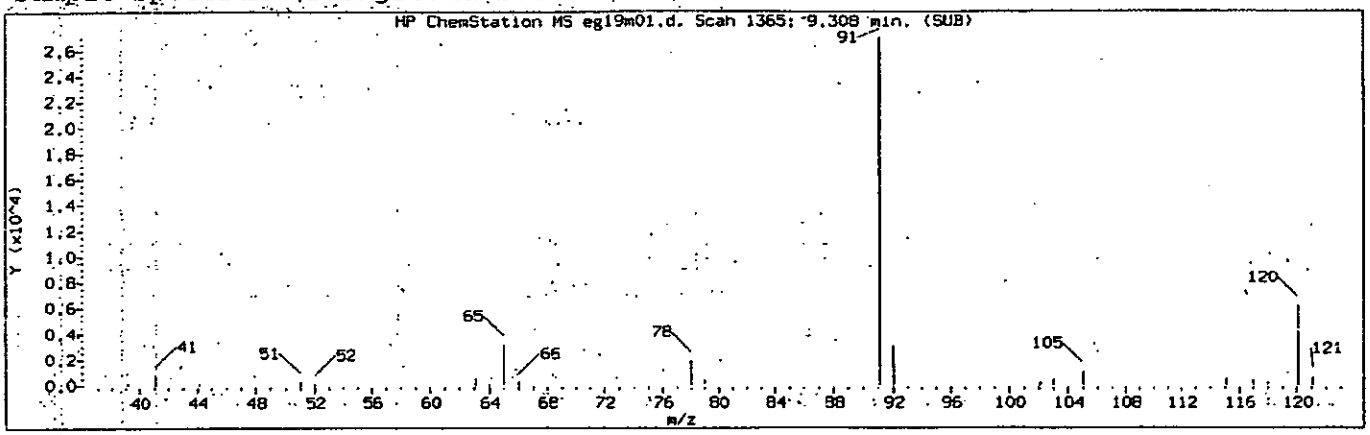
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 22438
On-column Amount (ng) : 8.5763
Integration start scan : 1352 Integration stop scan: 1394
Y at integration start : 0 Y at integration end: 0

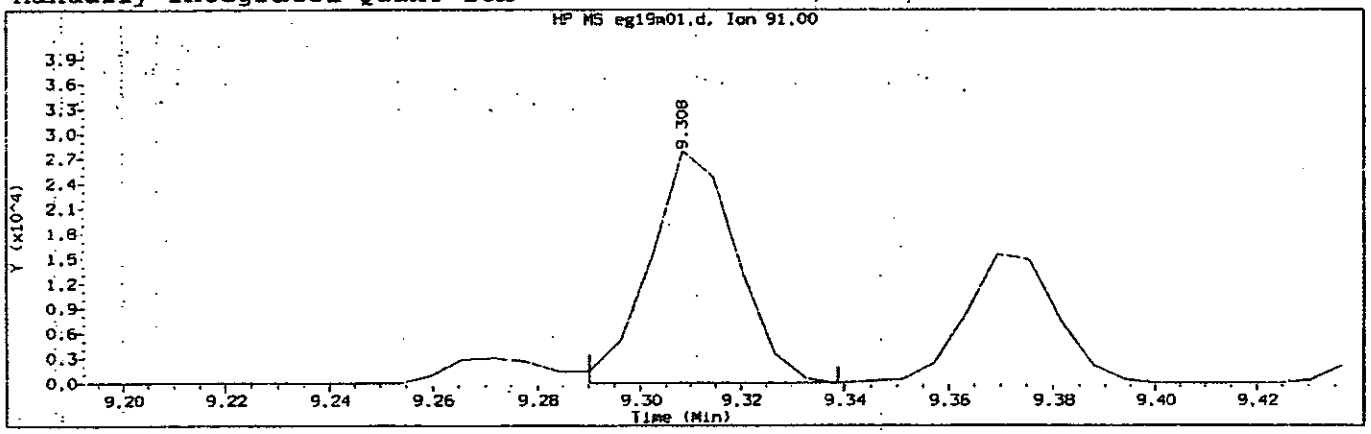
PTL06 0424

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1365
Retention Time (minutes): 9.308
Quant Ion : 91.00
Area (flag) : 33391M
On-Column Amount (ng) : 0.8235
Integration start scan : 1361 Integration stop scan: 1369
Y at integration start : 0 Y at integration end: 0

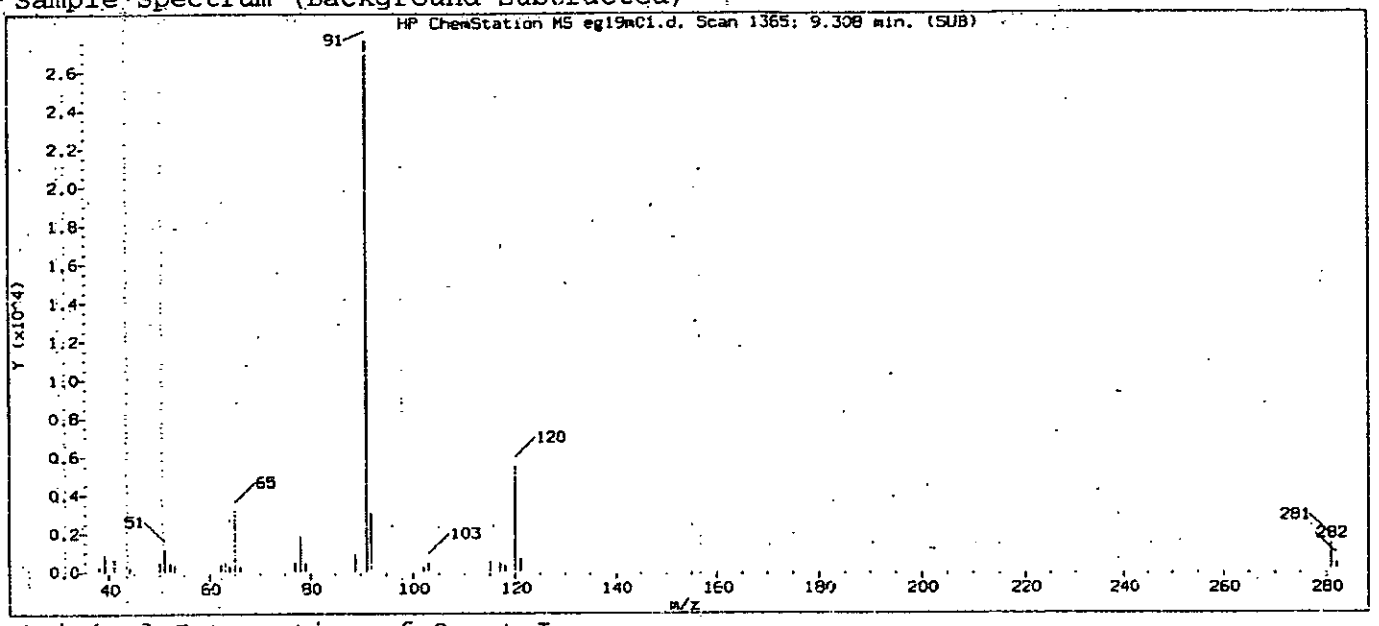
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

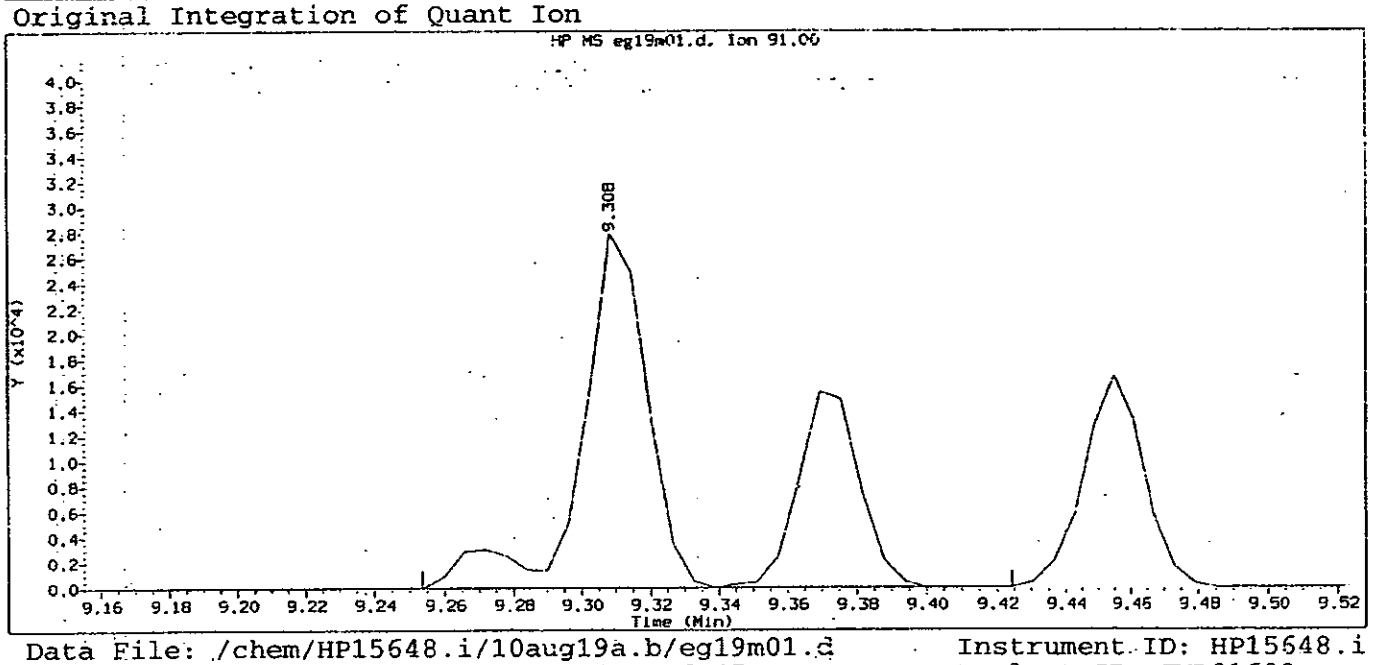
GC/MS audit/management approval: 8/20/10

PTL06 0425

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

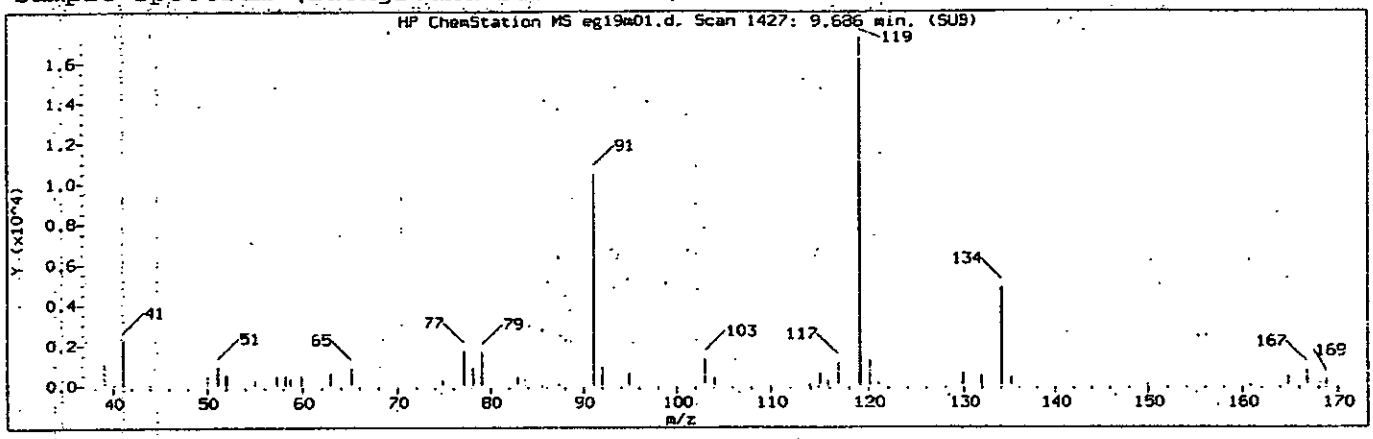
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1365
Retention Time (minutes): 9.308
Quant Ion : 91.00
Area : 56249
On-column Amount (ng) : 1.2194
Integration start scan : 1355 Integration stop scan: 1383
Y at integration start : 0 Y at integration end: 0

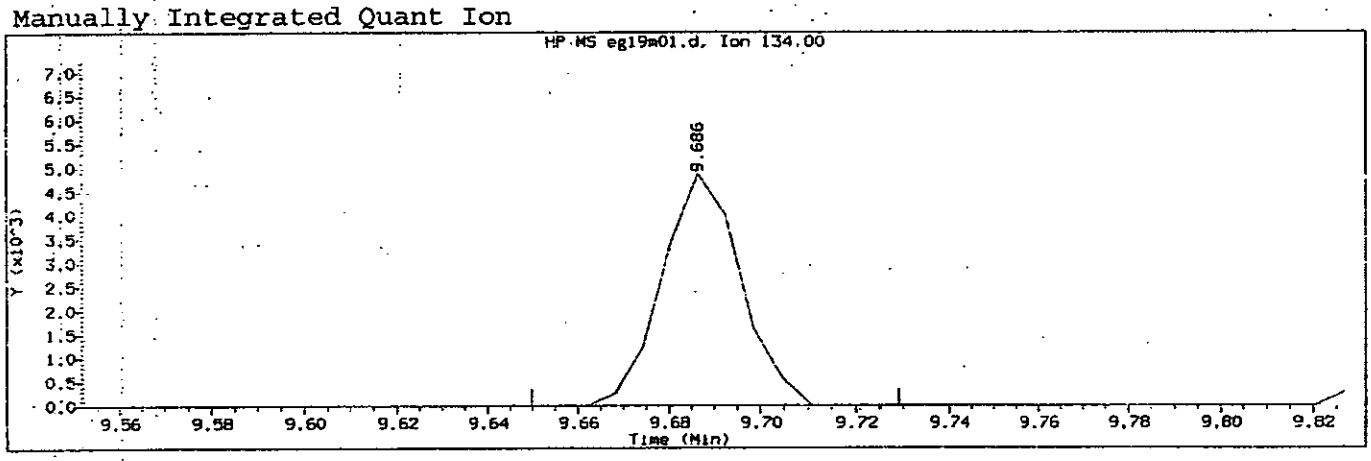
PTL06 0426

Digitally signed by Jason M. Long on 08/20/2010 at 10:07:
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 127		
Compound Name	: tert-Butylbenzene		
Scan Number	: 1427		
Retention Time (minutes)	: 9.686		
Quant Ion	: 134.00		
Area (flag)	: 5832M		
On-Column Amount (ng)	: 0.8465		
Integration start scan	: 1420	Integration stop scan:	1433
Y at integration start	: 0	Y at integration end:	0

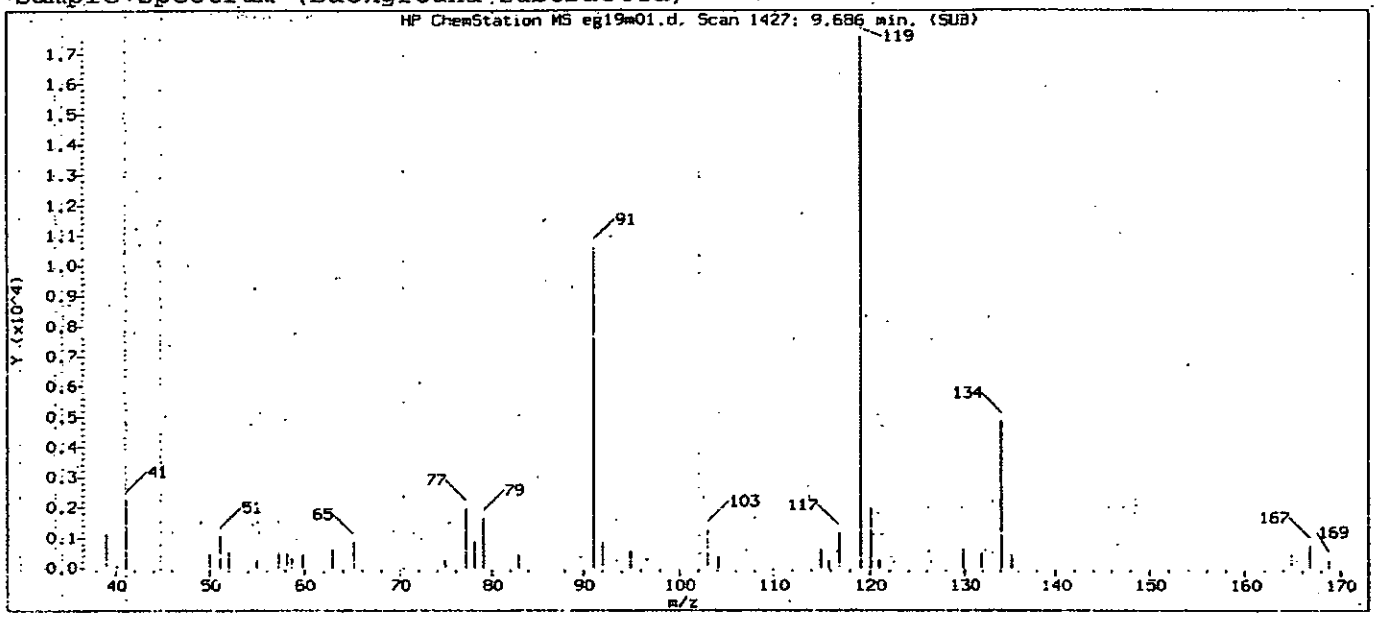
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

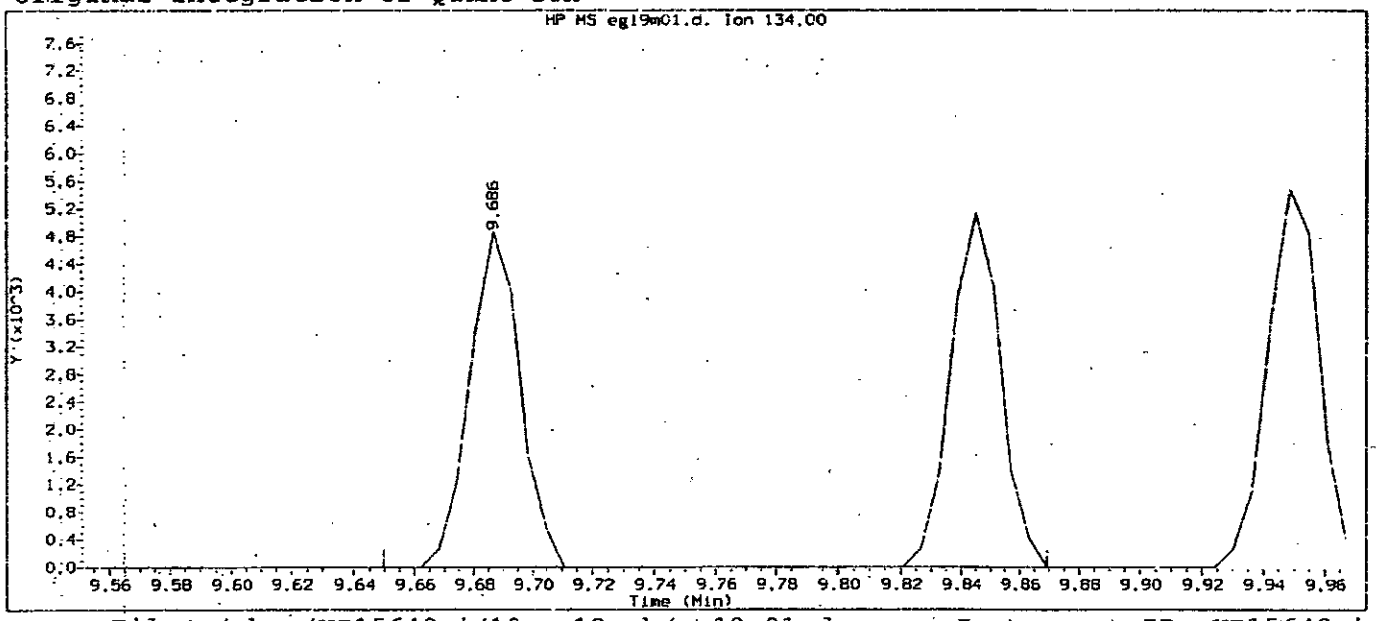
GC/MS audit/management approval: JMLong 8/20/10

PTL86 8427

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

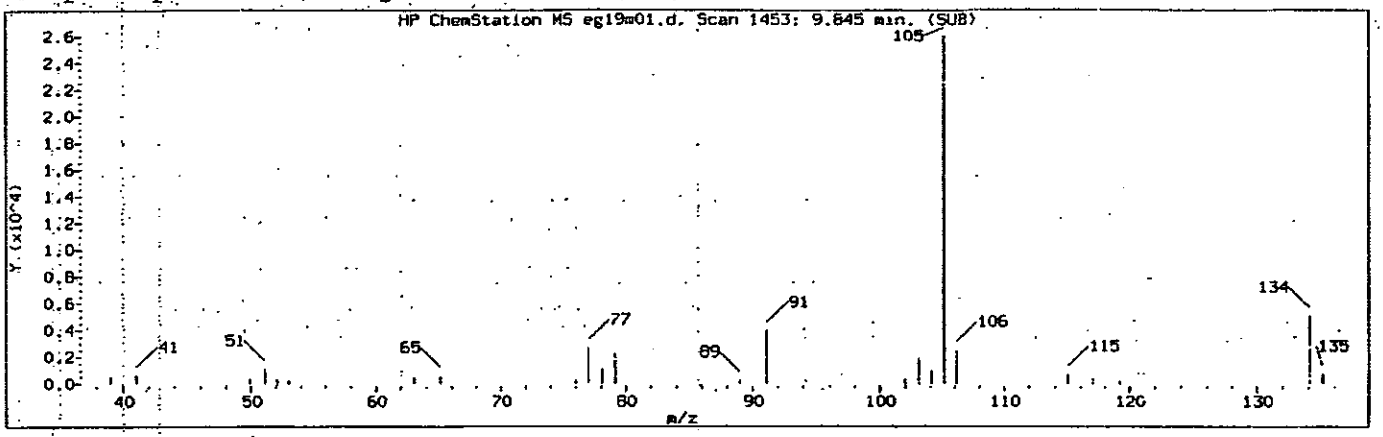
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 127
Compound Name : tert-Butylbenzene
Scan Number : 1427
Retention Time (minutes): 9.686
Quant Ion : 134.00
Area : 11912
On-column Amount (ng) : 0.9982
Integration start scan : 1420 Integration stop scan: 1456
Y at integration start : 0 Y at integration end: 0

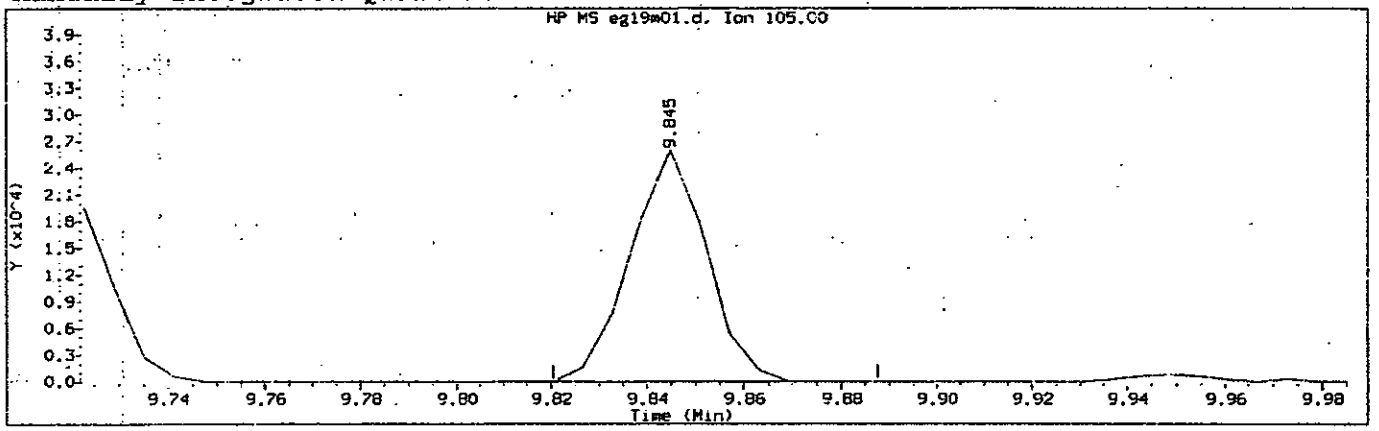
PTL86 0428

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 132		
Compound Name	: sec-Butylbenzene		
Scan Number	: 1453		
Retention Time (minutes)	: 9.845		
Quant Ion	: 105.00		
Area (flag)	: 28447M		
On-Column Amount (ng)	: 0.7818		
Integration start scan	: 1448	Integration stop scan	: 1459
Y at integration start	: 0	Y at integration end	: 0

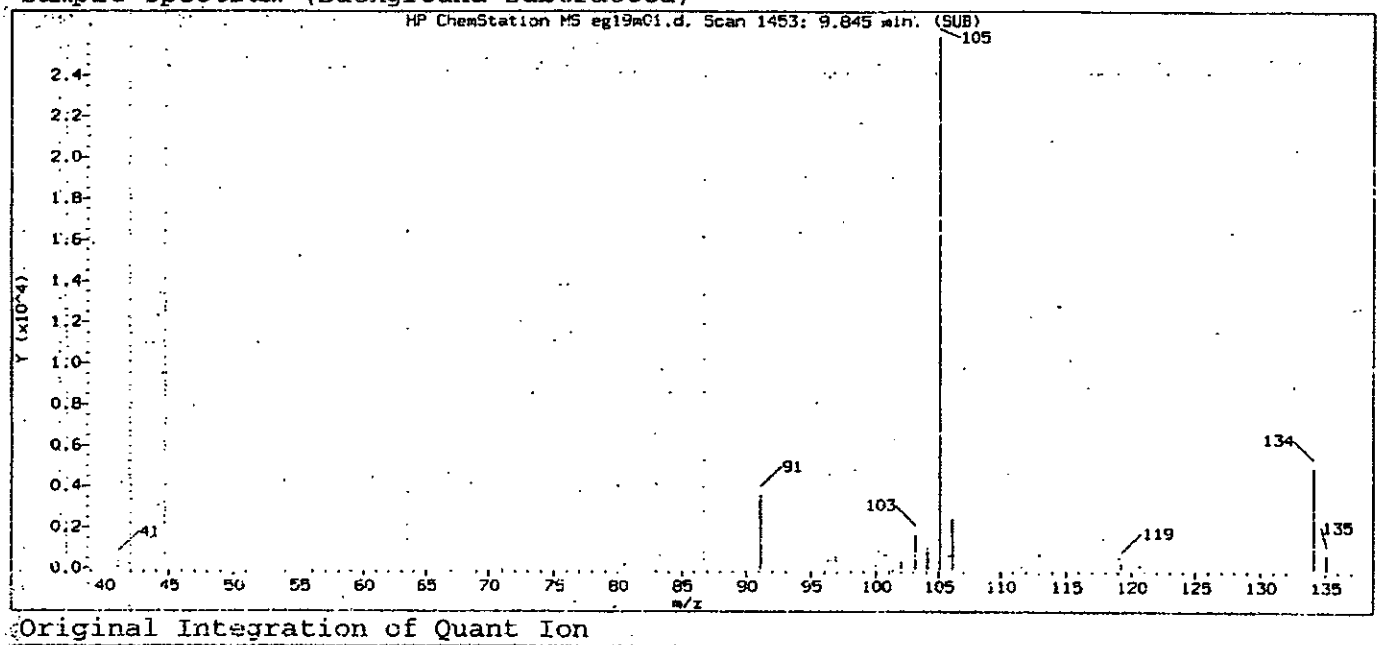
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

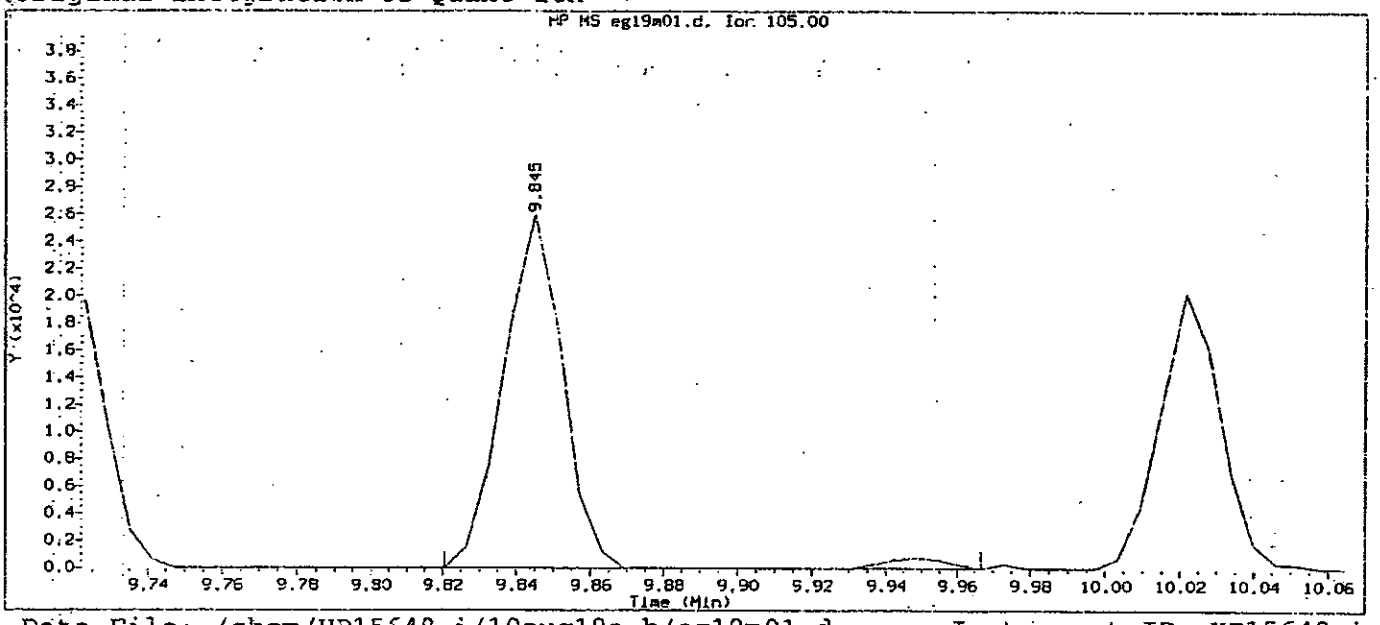
GC/MS audit/management approval: 8/20/10

PTL86 0429

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

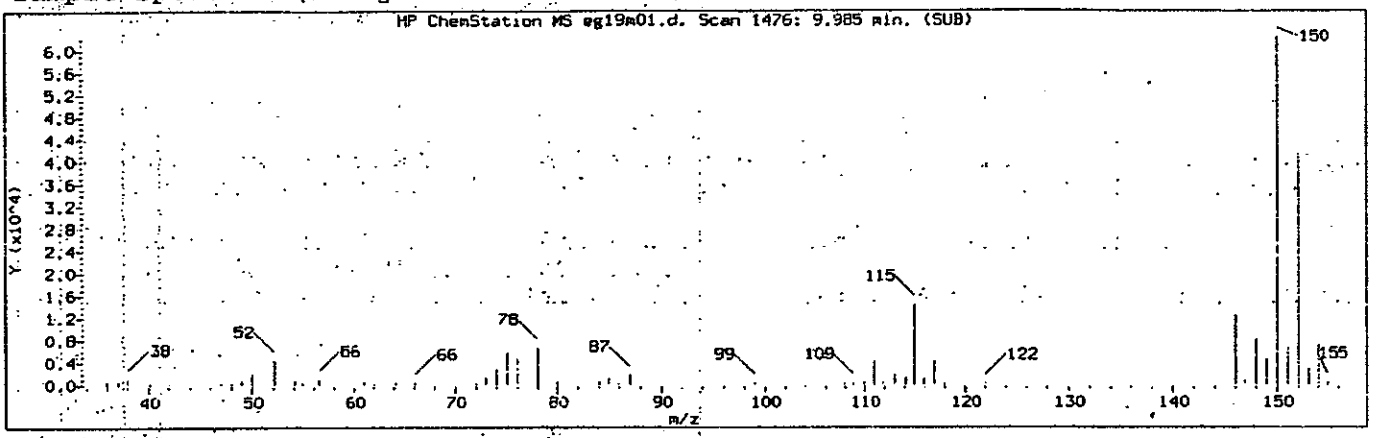
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

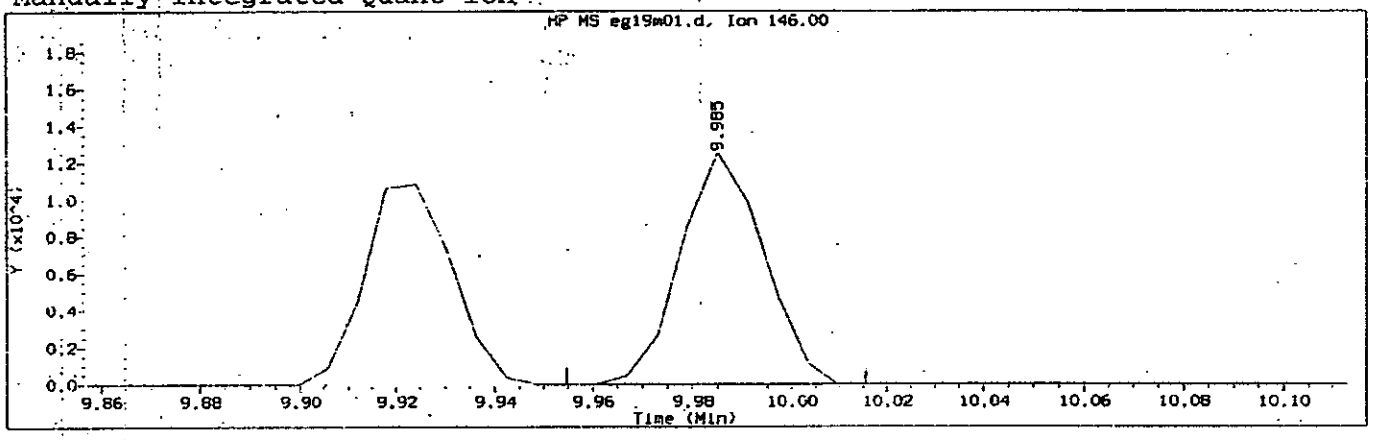
Compound Number : 132
Compound Name : sec-Butylbenzene
Scan Number : 1453
Retention Time (minutes): 9.845
Quant Ion : 105.00
Area : 29391
On-column Amount (ng) : 0.8078
Integration start scan : 1448 Integration stop scan: 1472 PTL06 0438
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 136		
Compound Name	: 1,4-Dichlorobenzene		
Scan Number	: 1476		
Retention Time (minutes)	: 9.985		
Quant Ion	: 146.00		
Area (flag)	: 14575M		
On-Column Amount (ng)	: 0.9403		
Integration start scan	: 1470	Integration stop scan:	1480
Y at integration start	: 0	Y at integration end:	0

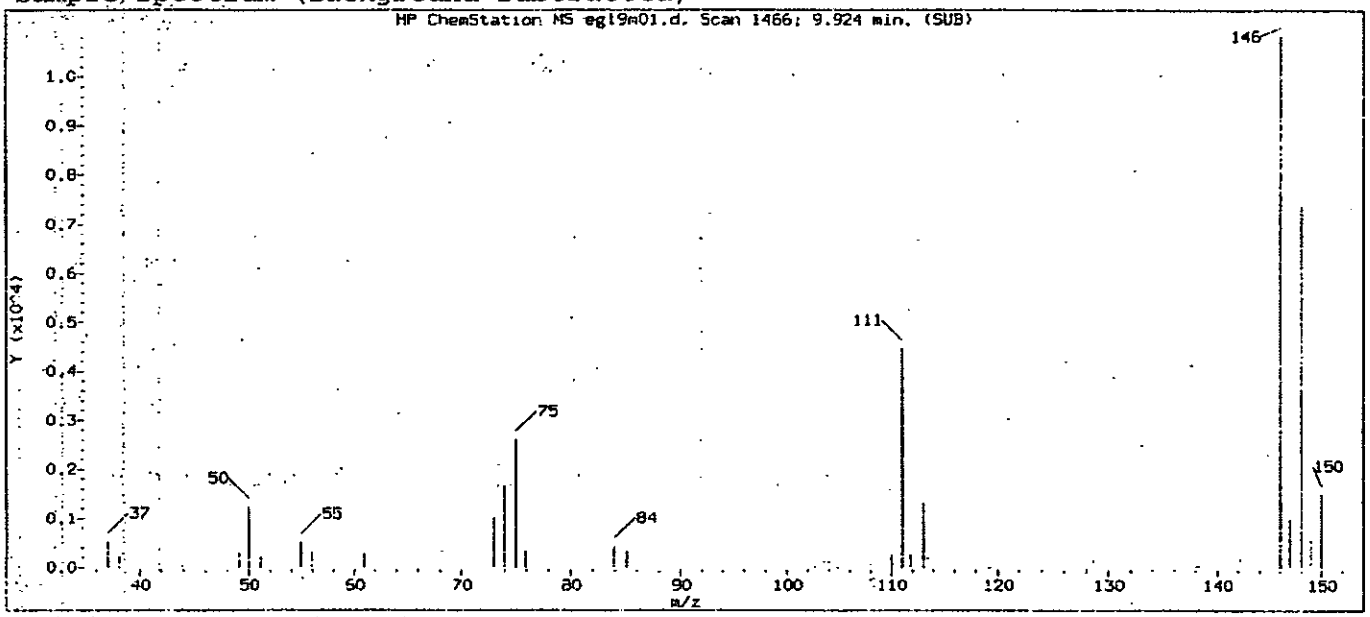
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

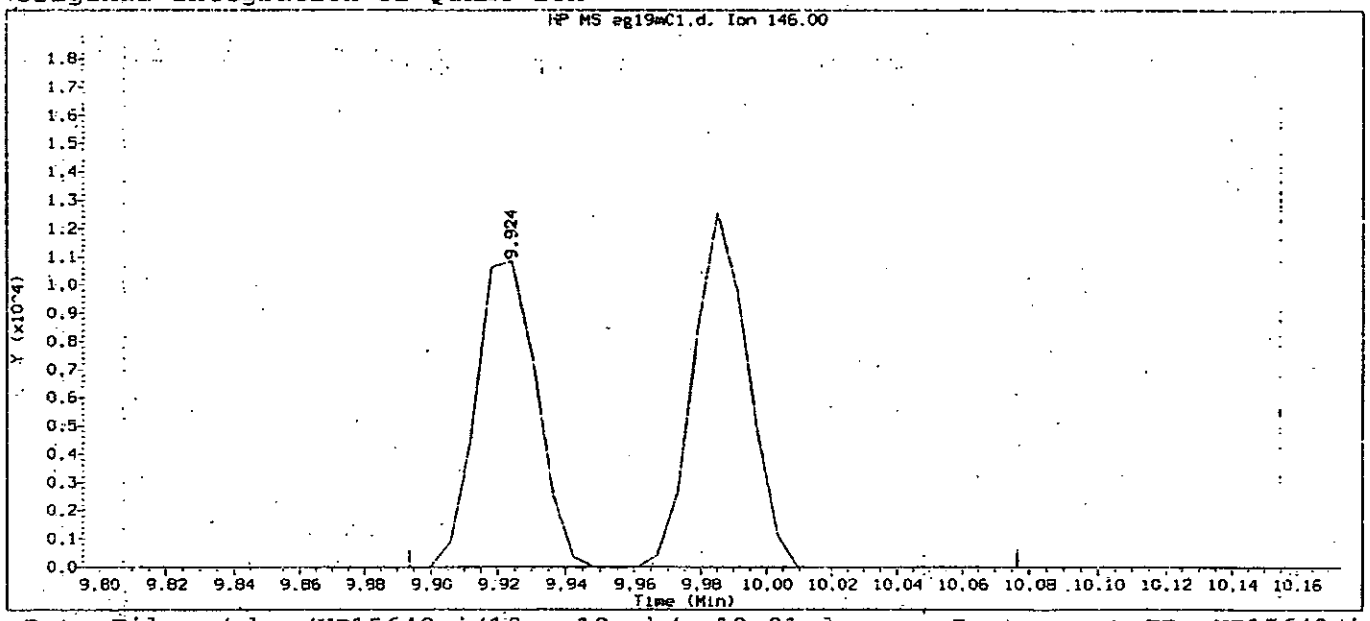
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0431

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

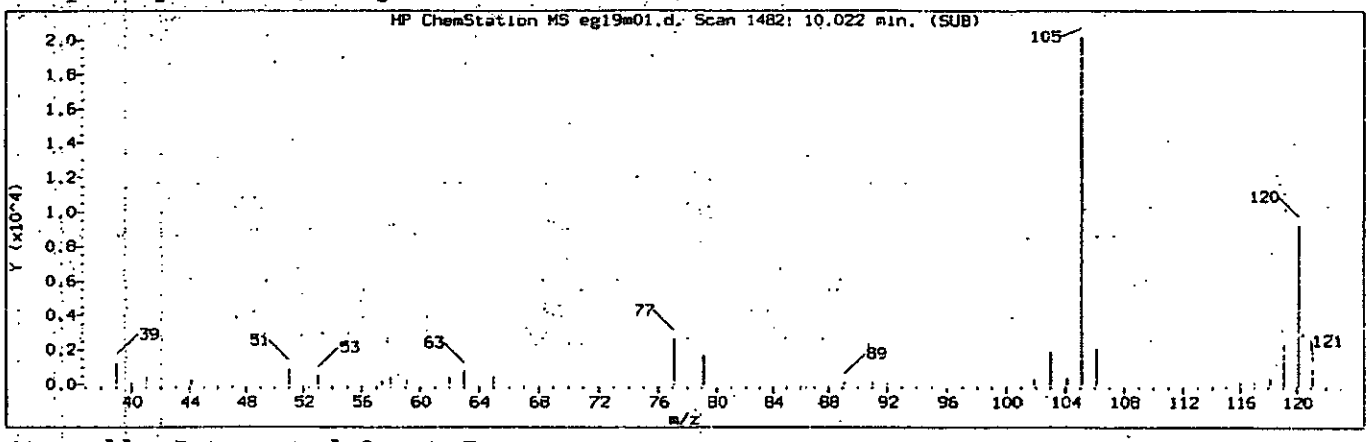
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

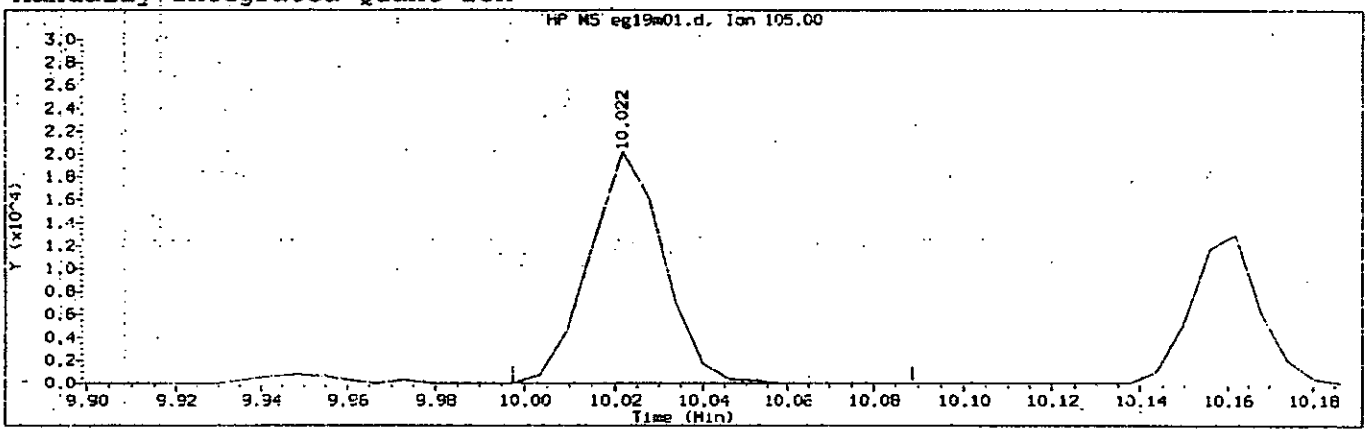
Compound Number : 136
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1466
Retention Time (minutes): 9.924
Quant Ion : 146.00
Area : 28138
On-column Amount (ng) : 1.3776
Integration start scan : 1460 Integration stop scan: 1490 PTL06 0432
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

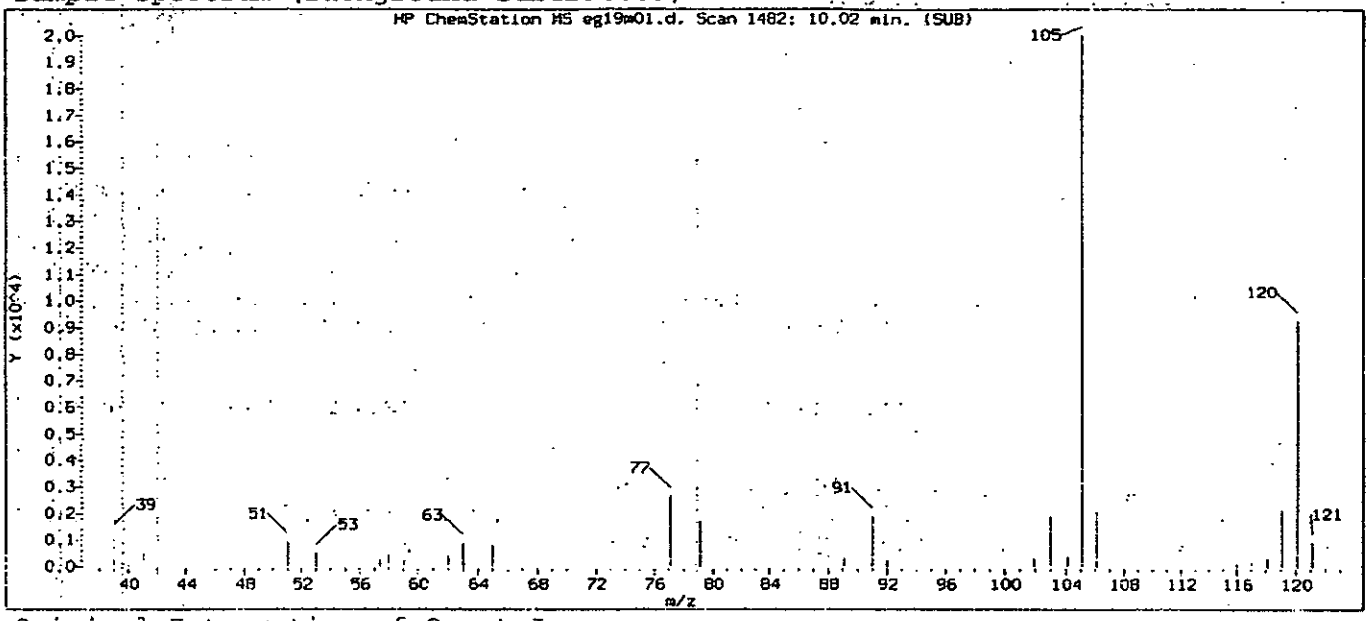
Compound Number : 137
Compound Name : 1,2,3-Trimethylbenzene
Scan Number : 1482
Retention Time (minutes): 10.022
Quant Ion : 105.00
Area (flag) : 23218M
On-Column Amount (ng) : 0.8257
Integration start scan : 1477 Integration stop scan: 1492
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

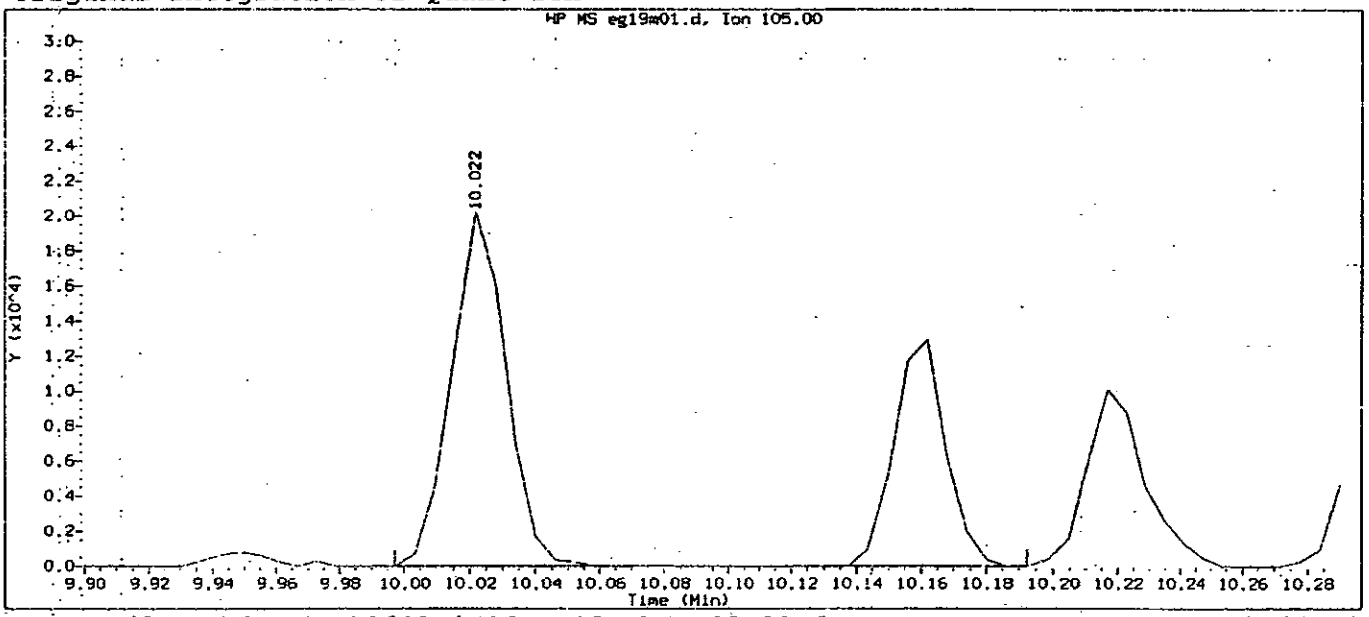
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [signature] 8/20/10 PTL86 8433

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

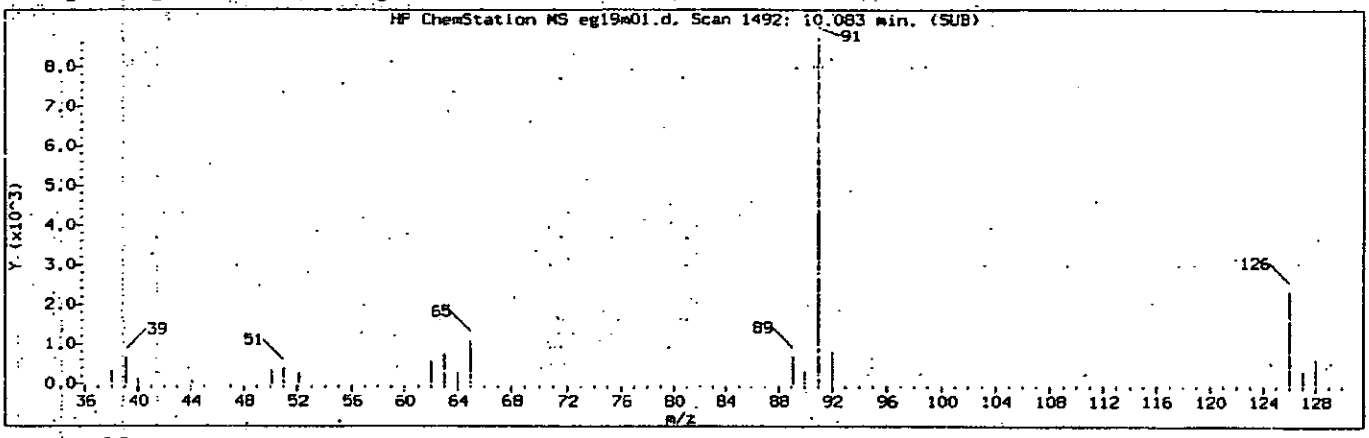
Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

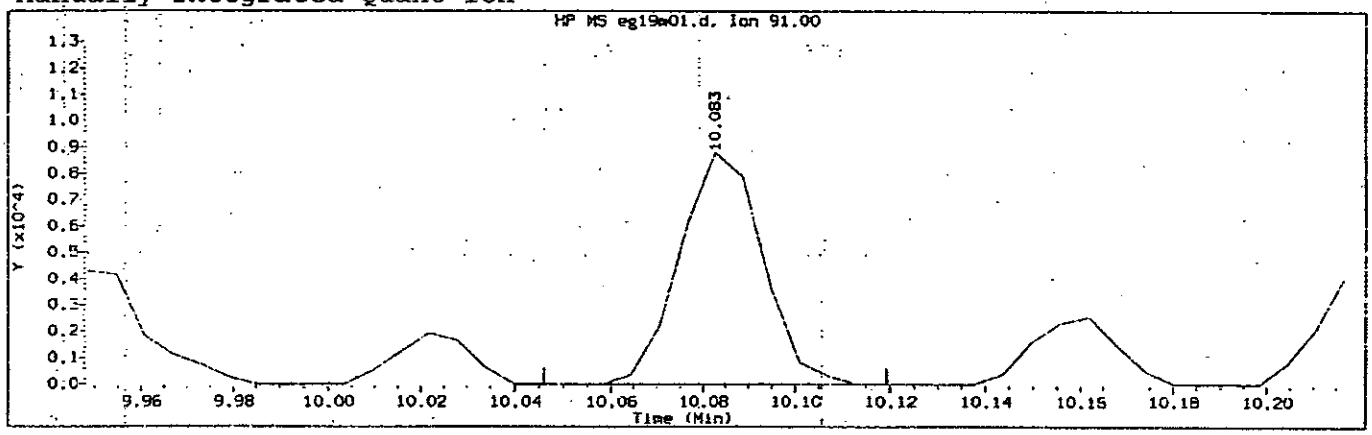
Compound Number : 137
Compound Name : 1,2,3-Trimethylbenzene
Scan Number : 1482
Retention Time (minutes): 10.022
Quant Ion : 105.00
Area : 37622
On-column Amount (ng) : 1.3380
Integration start scan : 1477 Integration stop scan: 1509 PTL86 8434
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 138
Compound Name : Benzyl Chloride
Scan Number : 1492
Retention Time (minutes): 10.083
Quant Ion : 91.00
Area (flag) : 11002M
On-Column Amount (ng) : 1.2919
Integration start scan : 1485 Integration stop scan: 1497
Y at integration start : 0 Y at integration end: 0

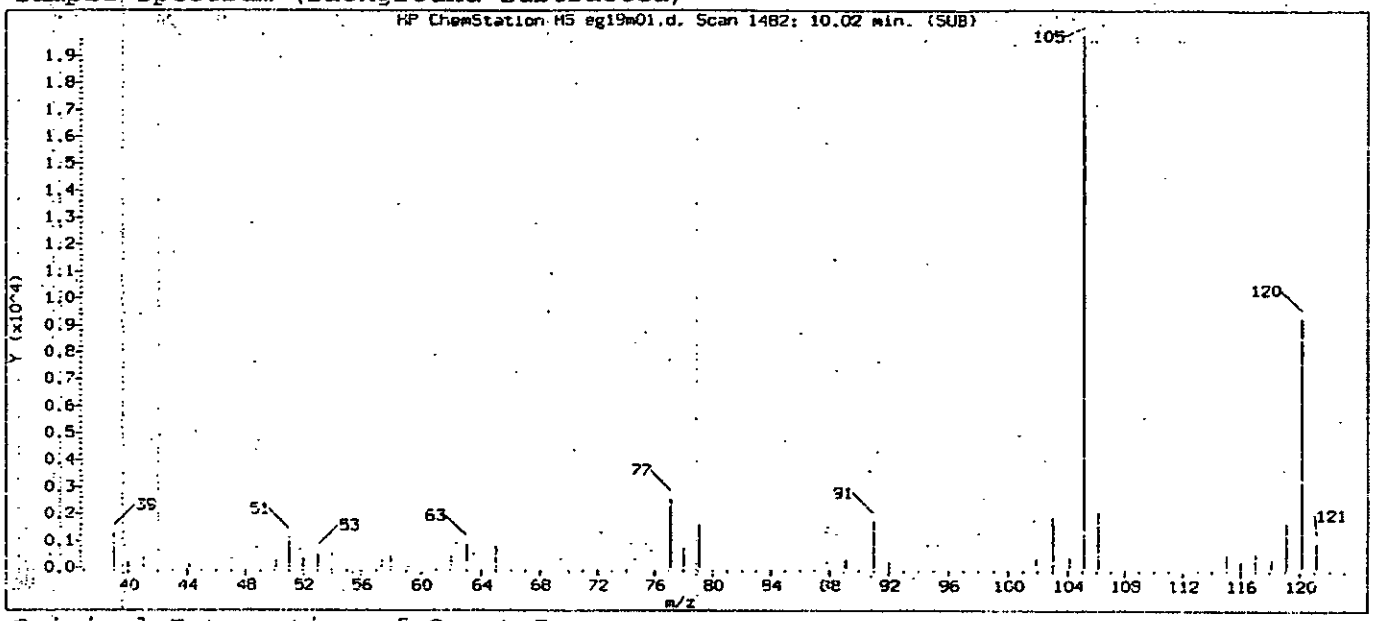
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

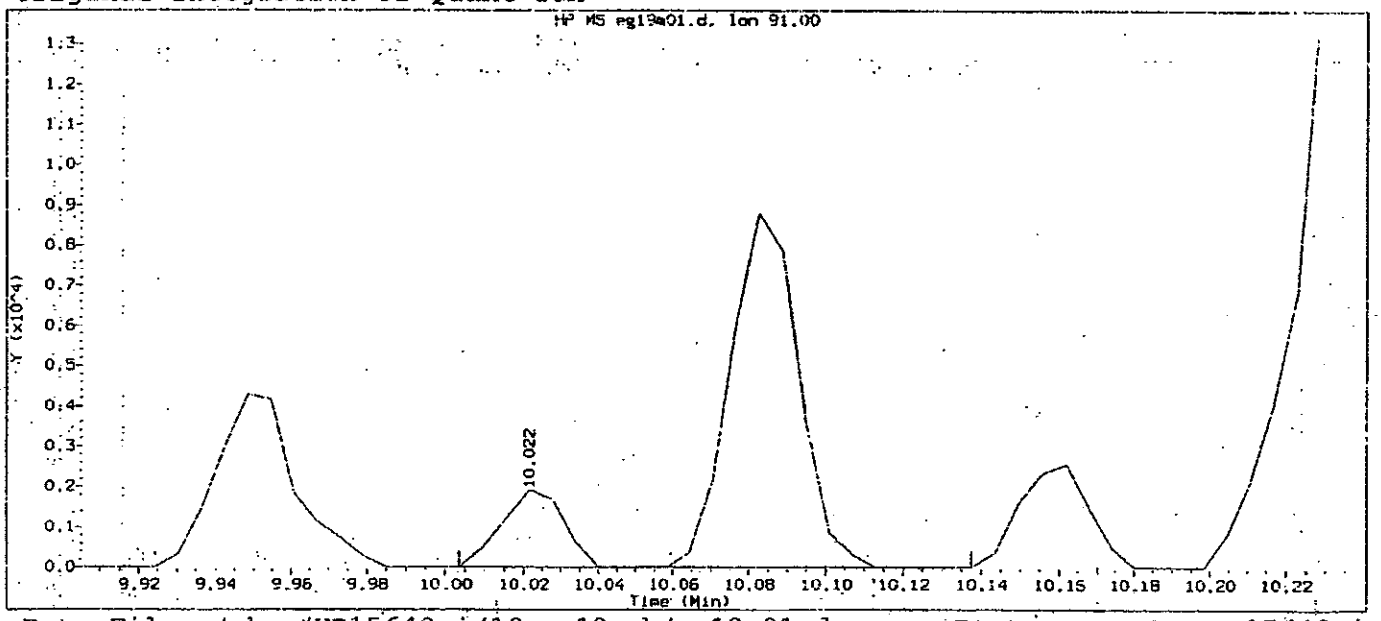
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8435

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d. Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

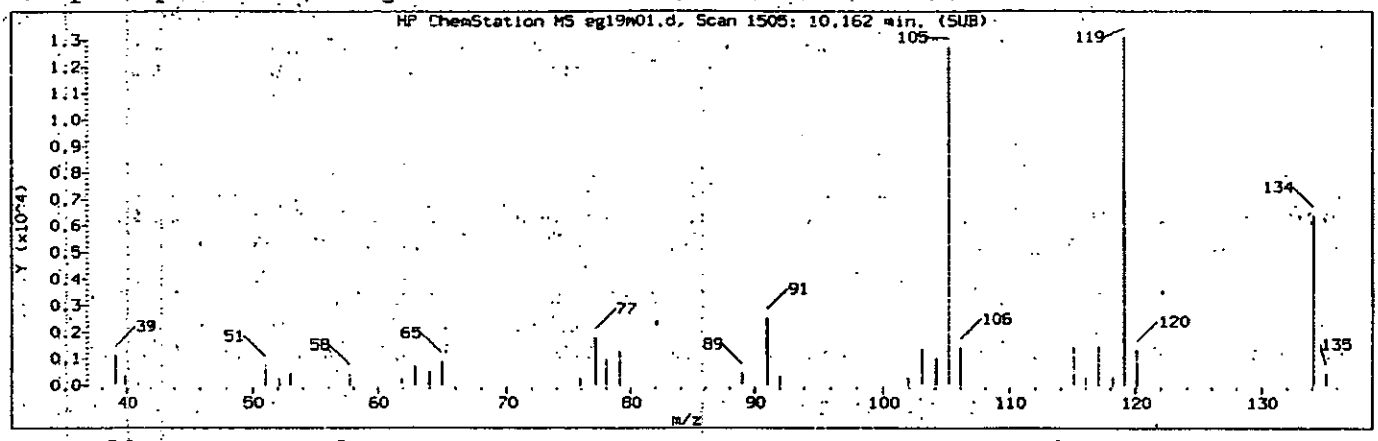
Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 138		
Compound Name	: Benzyl Chloride		
Scan Number	: 1482		
Retention Time (minutes)	: 10.022		
Quant Ion	: 91.00		
Area	: 13177		
On-column Amount (ng)	: 0.9853		
Integration start scan	: 1478	Integration stop scan:	1500
Y at integration start	: 0	Y at integration end:	0

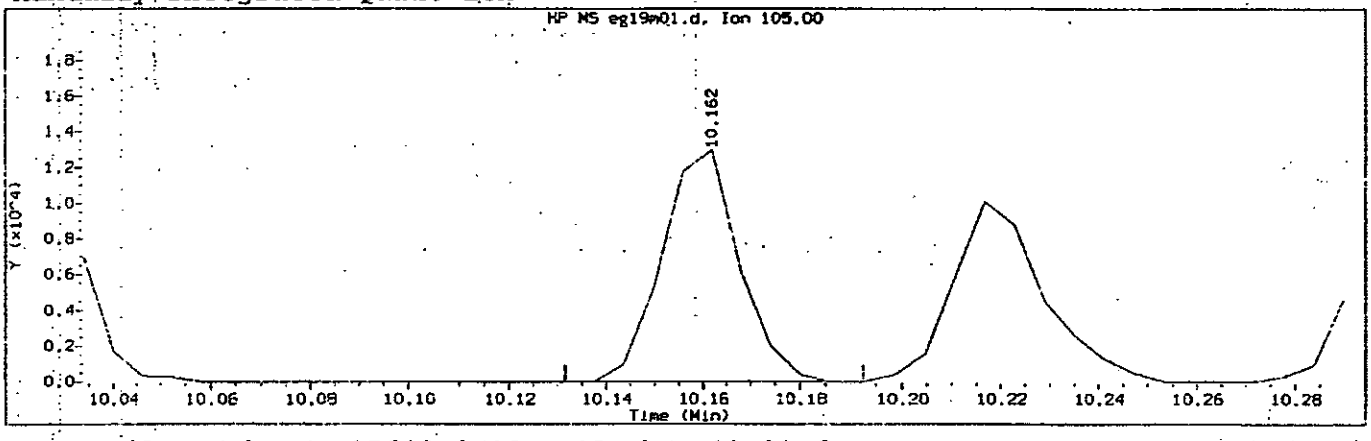
PTL86 0436

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 139		
Compound Name	: 1,3-Diethylbenzene		
Scan Number	: 1505		
Retention Time (minutes)	: 10.162		
Quant Ion	: 105.00		
Area (flag)	: 14403M		
On-Column Amount (ng)	: 0.7894		
Integration start scan	: 1499	Integration stop scan:	1509
Y at integration start	: 0	Y at integration end:	0

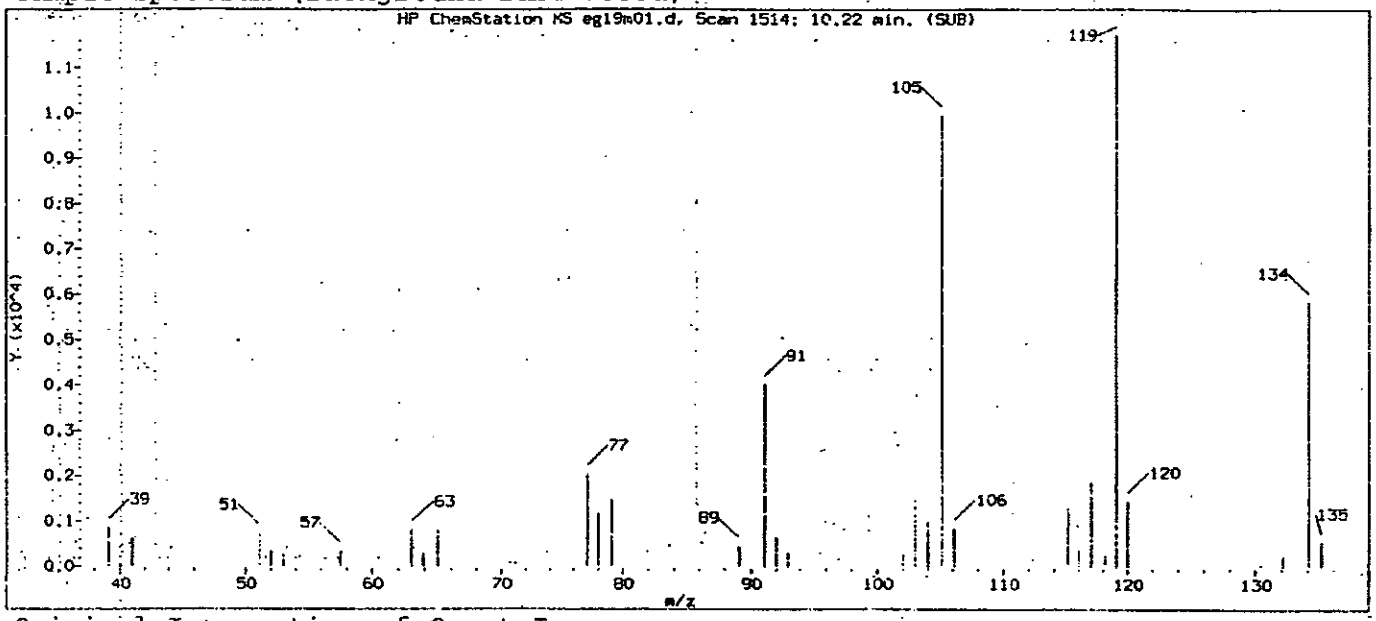
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

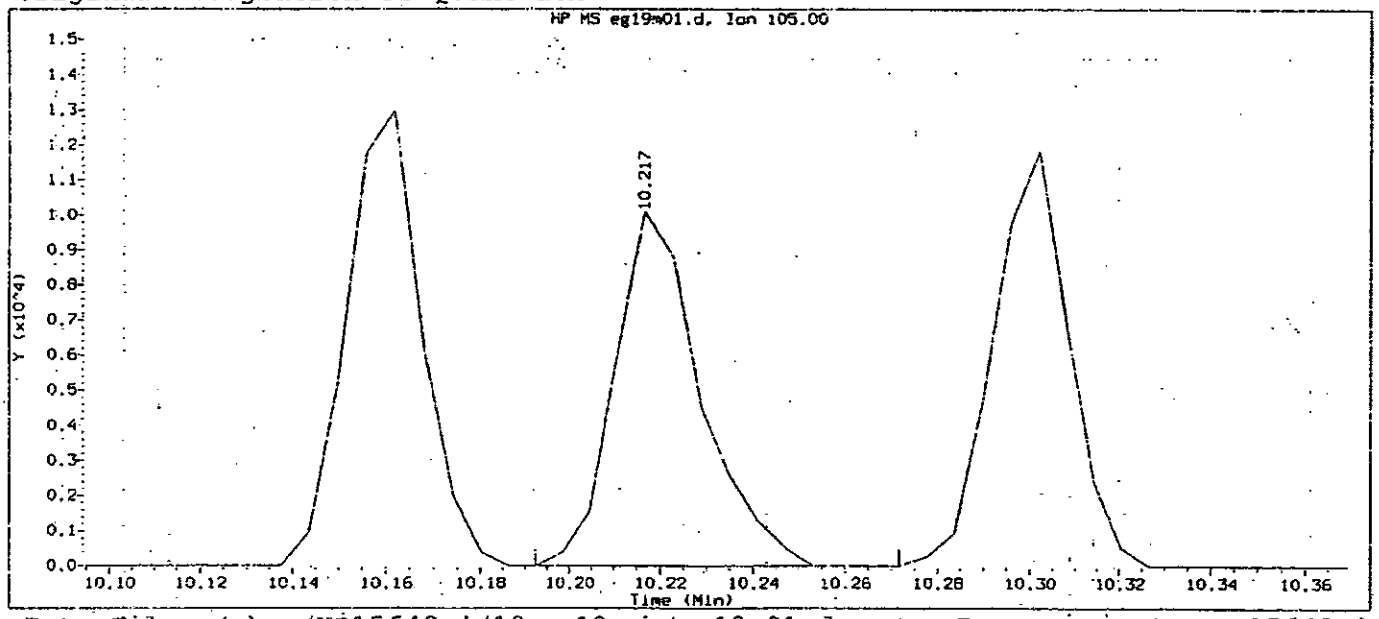
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8437

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number	: 139		
Compound Name	: 1,3-Diethylbenzene		
Scan Number	: 1514		
Retention Time (minutes)	: 10.217		
Quant Ion	: 105.00		
Area	: 12997		
On-column Amount (ng)	: 0.5462		
Integration start scan	: 1509	Integration stop scan:	1522
Y at integration start	: 0	Y at integration end:	0

PTL06 0438

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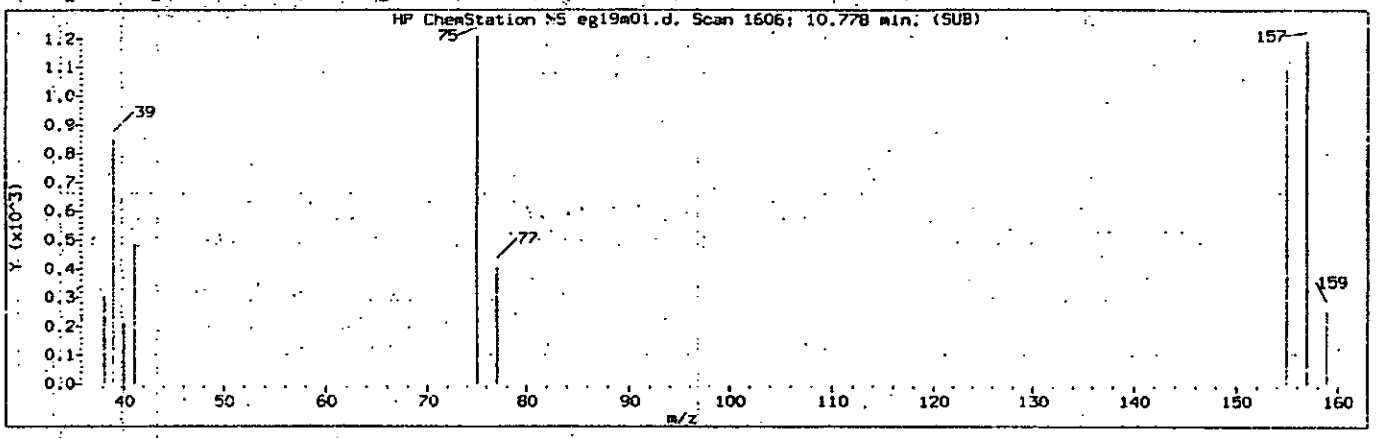
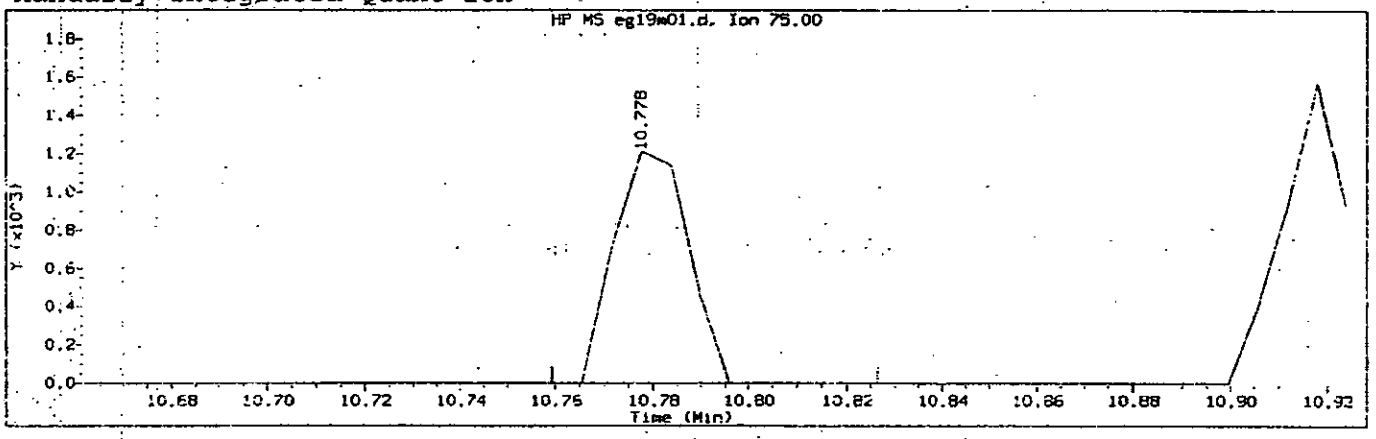
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted).



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:45 jml01693

Sample Name: MDL001 Lab Sample ID: MDL001

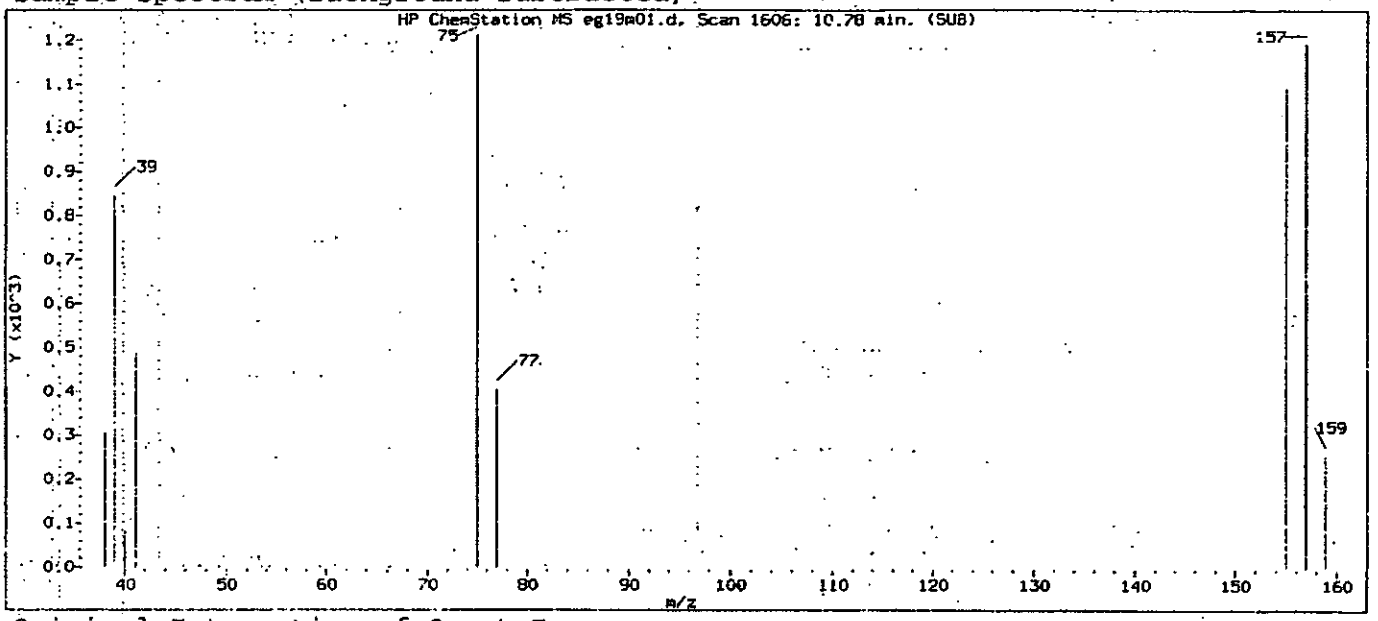
Compound Number	: 145		
Compound Name	: 1,2-Dibromo-3-Chloropropane		
Scan Number	: 1606		
Retention Time (minutes)	: 10.778		
Quant Ion	: 75.00		
Area (flag)	: 1288M		
On-Column Amount (ng)	: 0.8726		
Integration start scan	: 1602	Integration stop scan	: 1613
Y at integration start	: 0	Y at integration end	: 0

Reason for manual integration: improper integration

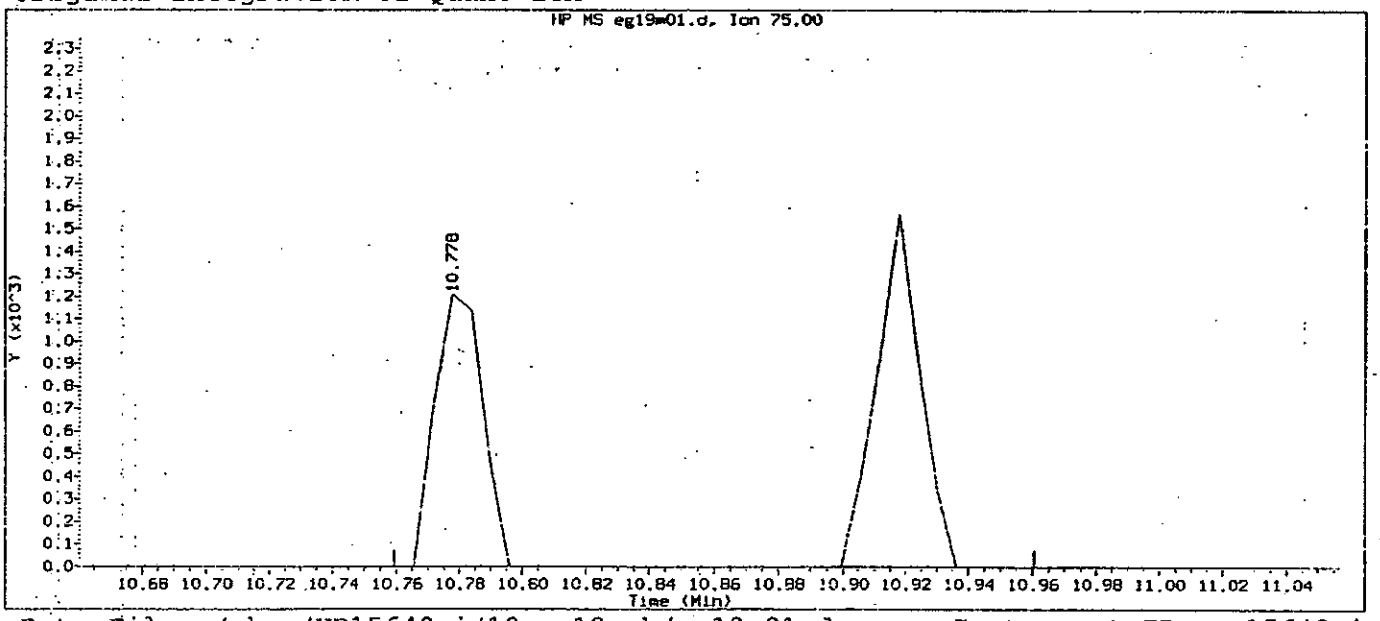
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [signature] 8/20/10 PTL86 0439

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19m01.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 16:47 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 16:44
Date, time and analyst ID of latest file update: 19-Aug-2010 17:04 Automation

Sample Name: MDL001 Lab Sample ID: MDL001

Compound Number : 145
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 1606
Retention Time (minutes): 10.778
Quant Ion : 75.00
Area : 2811
On-column Amount (ng) : 1.0724
Integration start scan : 1602 Integration stop scan: 1635
Y at integration start : 0 Y at integration end: 0

PTL85 8440

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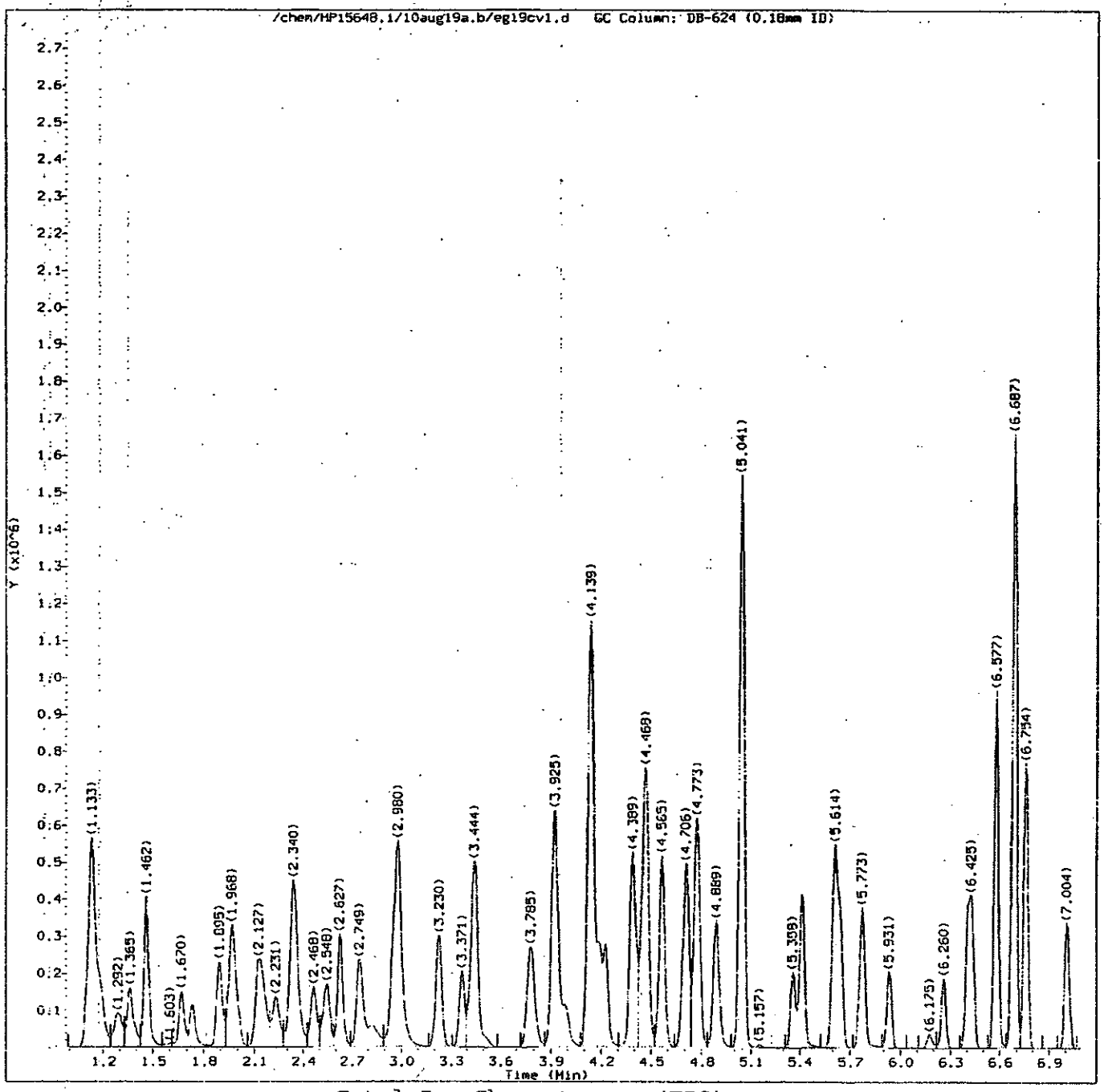
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

PTL86 0441

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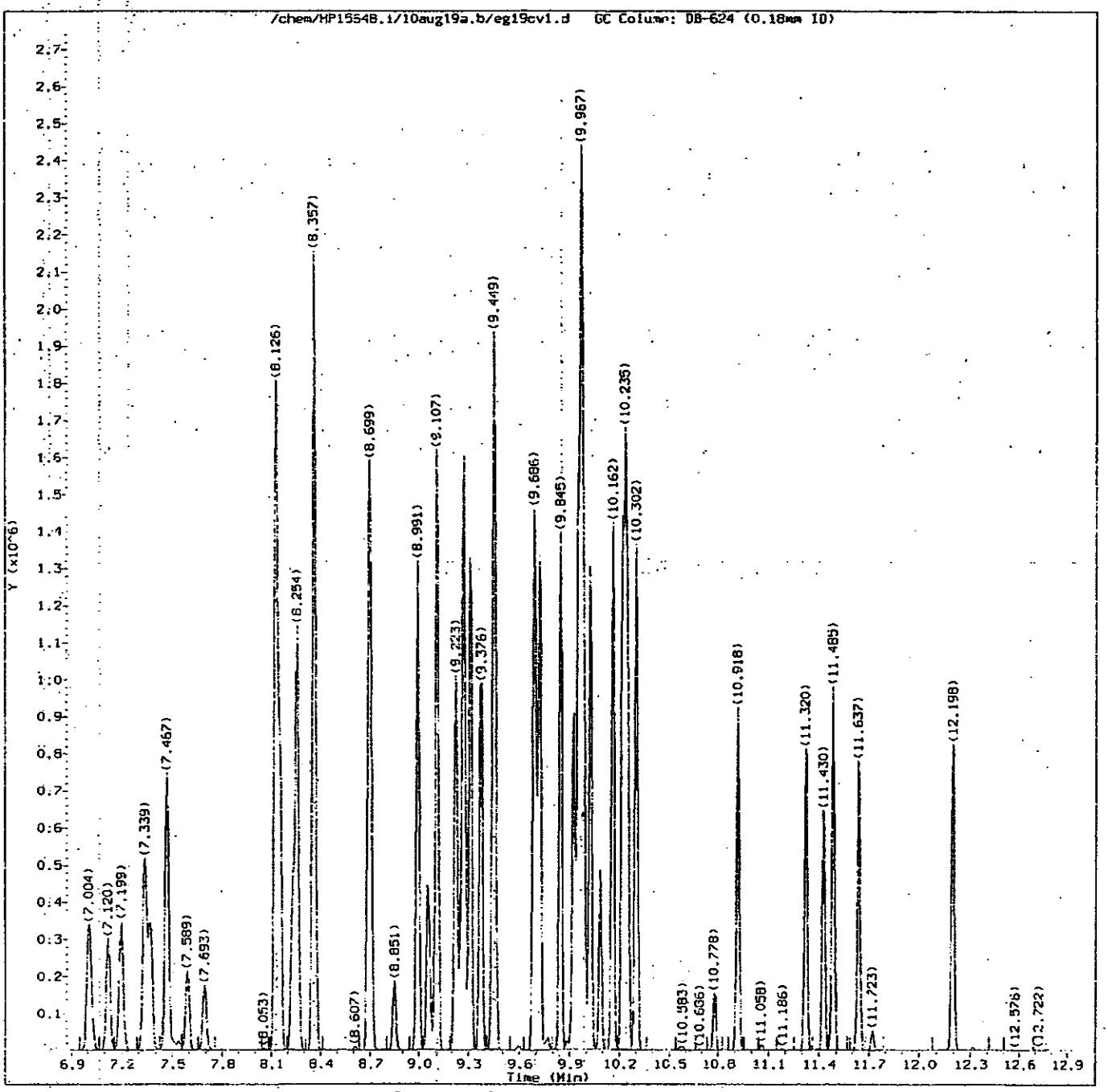
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

PTL86 0442

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on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1)	Dichlorodifluoromethane	(1)	1.286	85	171080	15.609
2)	Chloromethane	(1)	1.365	50	192149	17.189
3)	1,3-Butadiene	(1)	1.462	39	122674	17.427
4)	Vinyl Chloride	(1)	1.462	62	188599	17.452
5)	Bromomethane	(1)	1.670	94	118957	17.382
6)	Chloroethane	(1)	1.737	64	113190	17.723
7)	Dichlorofluoromethane	(1)	1.895	67	267948	19.210
8)	Trichlorofluoromethane	(1)	1.968	101	201545M	17.030
9)	n-Pentane	(1)	1.975	43	244348	18.775
12)	Ethyl Ether	(1)	2.121	59	97975	16.121
13)	Freon 123a	(1)	2.151	67	177058	20.174
14)	Acrolein	(4)	2.231	56	204851	129.196
15)	1,1-Dichloroethene	(1)	2.334	96	134186	19.001
17)	Freon 113	(1)	2.346	101	132516	18.644
16)	Acetone	(1)	2.352	43	261935	116.665
18)	Methyl Iodide	(1)	2.468	142	222057	19.076
21)	Carbon Disulfide	(1)	2.548	76	366125M	18.777
22)	Allyl Chloride	(1)	2.627	41	206910	18.199
23)	Methyl Acetate	(1)	2.639	43	106620	17.804
24)	Methylene Chloride	(1)	2.749	84	137288	18.588
25)	*t-Butyl Alcohol-d10	(4)	2.761	65	141119	250.000
26)	t-Butyl Alcohol	(4)	2.828	59	121752M	179.970
27)	Acrylonitrile	(1)	2.956	53	264979M	78.783
28)	trans-1,2-Dichloroethene	(1)	2.980	96	136263	18.537
29)	Methyl Tertiary Butyl Ether	(1)	2.986	73	366753	18.073
31)	n-Hexane	(1)	3.230	57	205861	18.032
33)	1,1-Dichloroethane	(1)	3.371	63	247025	18.777
34)	di-Isopropyl Ether	(1)	3.432	45	401970	18.136
35)	2-Chloro-1,3-Butadiene	(1)	3.456	53	213259	20.836
36)	1,2-Dichloroethene (total)	(1)		96	276877	36.654
37)	Ethyl t-Butyl Ether	(1)	3.785	59	372916M	18.024
39)	cis-1,2-Dichloroethene	(1)	3.919	96	140614	18.117
40)	2-Butanone	(1)	3.931	43	401358	106.540
41)	2,2-Dichloropropane	(1)	3.931	77	179601	18.306
42)	Propionitrile	(4)	3.992	54	156363	140.281
44)	Methacrylonitrile	(1)	4.139	67	462528	136.826
45)	Bromochloromethane	(1)	4.151	128	65926	17.880
46)	Tetrahydrofuran	(4)	4.188	71	93374	90.251
47)	Chloroform	(1)	4.224	83	215315	18.480

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) $Dibromofluoromethane	(1)	4.383	113	278351	49.939
52) 1,1,1-Trichloroethane	(1)	4.407	97	204430	18.216
53) Cyclohexane	(1)	4.462	56	261862	19.007
56) Carbon Tetrachloride	(1)	4.565	117	149403	18.343
55) 1,1-Dichloropropene	(1)	4.565	75	193321	18.230
58) Isobutyl Alcohol	(4)	4.693	41	101275	442.603
59) $1,2-Dichloroethane-d4	(1)	4.712	102	73656M	49.769
63) Benzene	(1)	4.767	78	558748	18.422
65) 1,2-Dichloroethane	(1)	4.785	62	159726	18.402
67) t-Amyl Methyl Ether	(1)	4.889	73	361687	18.014
68) n-Heptane	(1)	5.041	43	204261	17.984
69) *Fluorobenzene	(1)	5.047	96	1246549	50.000
71) n-Butanol	(4)	5.358	56	169922	839.866
72) Trichloroethene	(1)	5.413	95	144369	18.515
74) Methylcyclohexane	(1)	5.608	83	269593	18.667
76) 1,2-Dichloropropane	(1)	5.645	63	141997	18.511
78) Dibromomethane	(1)	5.760	93	77969M	17.844
79) Methyl Methacrylate	(1)	5.773	69	99447	15.457
80) 1,4-Dioxane	(4)	5.785	88	29572	451.518
81) Bromodichloromethane	(1)	5.931	83	148982	18.138
82) 2-Nitropropane	(1)	6.175	41	24108	16.741
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	92666	17.677
87) cis-1,3-Dichloropropene	(1)	6.400	75	195985	17.990
88) 4-Methyl-2-Pentanone	(1)	6.577	43	689356	82.420
90) $Toluene-d8	(2)	6.687	98	1236533	49.557
91) Toluene	(2)	6.754	92	360656	18.229
92) trans-1,3-Dichloropropene	(2)	7.004	75	181838	17.976
93) Ethyl Methacrylate	(2)	7.120	69	164606	19.673
94) 1,1,2-Trichloroethane	(2)	7.199	97	115998	18.157
96) Tetrachloroethene	(2)	7.339	166	165923	18.038
97) 1,3-Dichloropropane	(2)	7.370	76	203537	18.040
98) 2-Hexanone	(2)	7.467	43	461714	83.180
100) Dibromochloromethane	(2)	7.589	129	110751	17.779
101) 1,2-Dibromoethane	(2)	7.693	107	112983	17.391
103) *Chlorobenzene-d5	(2)	8.126	117	902293	50.000
104) Chlorobenzene	(2)	8.150	112	393645	18.380
105) Xylene (Total)	(2)		106	798571	54.196
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	109708	17.199
107) Ethylbenzene	(2)	8.254	91	685821M	18.092

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
108) m+p-Xylene	(2)	8.357	106	538033	36.123
110) o-Xylene	(2)	8.693	106	260538	18.073
111) Styrene	(2)	8.705	104	406279	17.849
112) Bromoform	(2)	8.851	173	77176	16.898
113) Isopropylbenzene	(2)	8.991	105	692725	18.256
115) Cyclohexanone	(4)	9.059	55	119645	538.336
116)$4-Bromofluorobenzene	(2)	9.107	95	438871	49.579
118) Bromobenzene	(3)	9.223	156	157647	18.180
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	164579	17.431
120) 1,2,3-Trichloropropane	(3)	9.260	110	48615	17.455
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	240834M	85.109
122) n-Propylbenzene	(3)	9.308	91	834213M	18.773
123) 2-Chlorotoluene	(3)	9.376	126	161537M	18.230
124) 1,3,5-Trimethylbenzene	(3)	9.443	105	553229	18.229
125) 4-Chlorotoluene	(3)	9.455	126	161647	18.001
127) tert-Butylbenzene	(3)	9.686	134	137063M	18.154
128) Pentachloroethane	(3)	9.699	167	80611	17.841
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	573618	18.231
132) sec-Butylbenzene	(3)	9.845	105	730233	18.312
133) 1,3-Dichlorobenzene	(3)	9.924	146	309775M	18.448
134) p-Isopropyltoluene	(3)	9.949	119	630526	18.187
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	489927	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	311476	18.336
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	565218	18.341
138) Benzyl Chloride	(3)	10.083	91	259723	16.863
139) 1,3-Diethylbenzene	(3)	10.162	105	370863M	18.546
140) 1,4-Diethylbenzene	(3)	10.217	105	336479M	18.095
141) n-Butylbenzene	(3)	10.235	92	312033	17.985
142) 1,2-Dichlorobenzene	(3)	10.247	146	291944	18.175
143) 1,2-Diethylbenzene	(3)	10.302	105	341033	18.293
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	28167M	16.671
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	207597	17.752
147) Hexachlorobutadiene	(3)	11.430	225	94246M	17.318
148) Naphthalene	(3)	11.485	128	575587	17.073
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	192124	17.705
152) 2-Methylnaphthalene	(3)	12.198	142	310787	17.448

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0445

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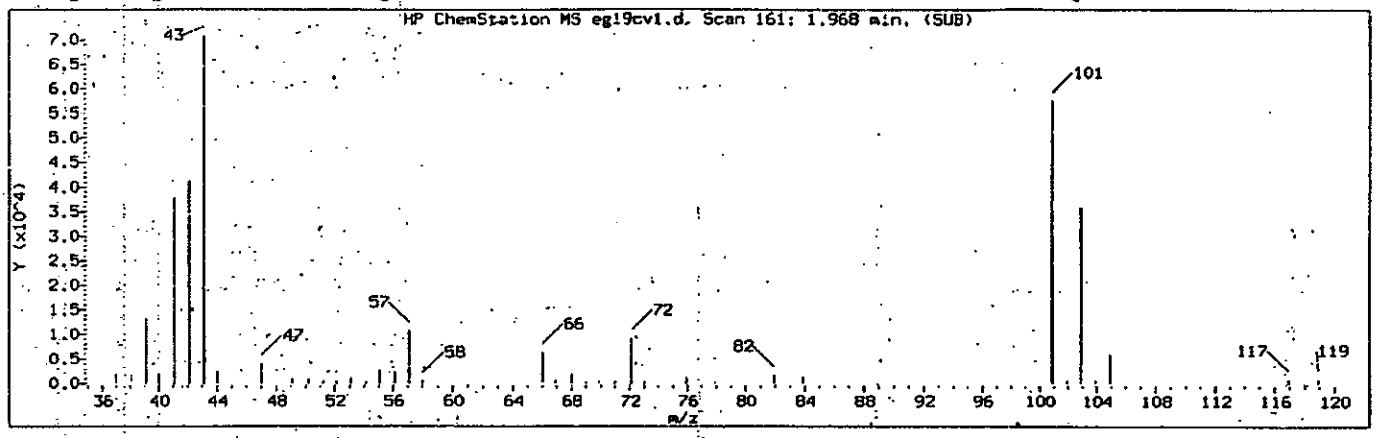
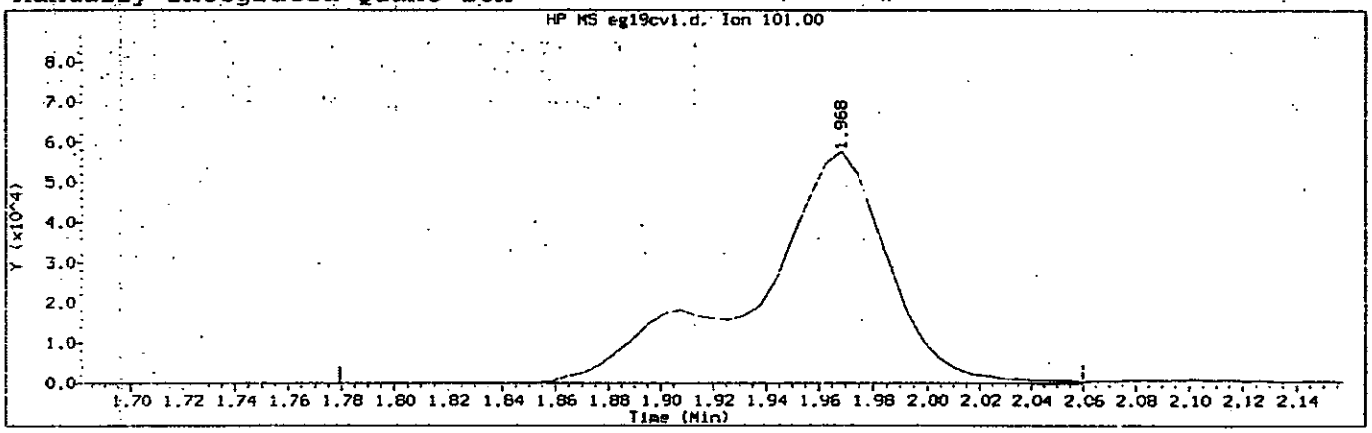
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 8		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 161		
Retention Time (minutes)	: 1.968		
Quant Ion	: 101.00		
Area (flag)	: 201545M		
On-Column Amount (ng)	: 17.0295		
Integration start scan	: 129	Integration stop scan:	175
Y at integration start	: 0	Y at integration end:	0

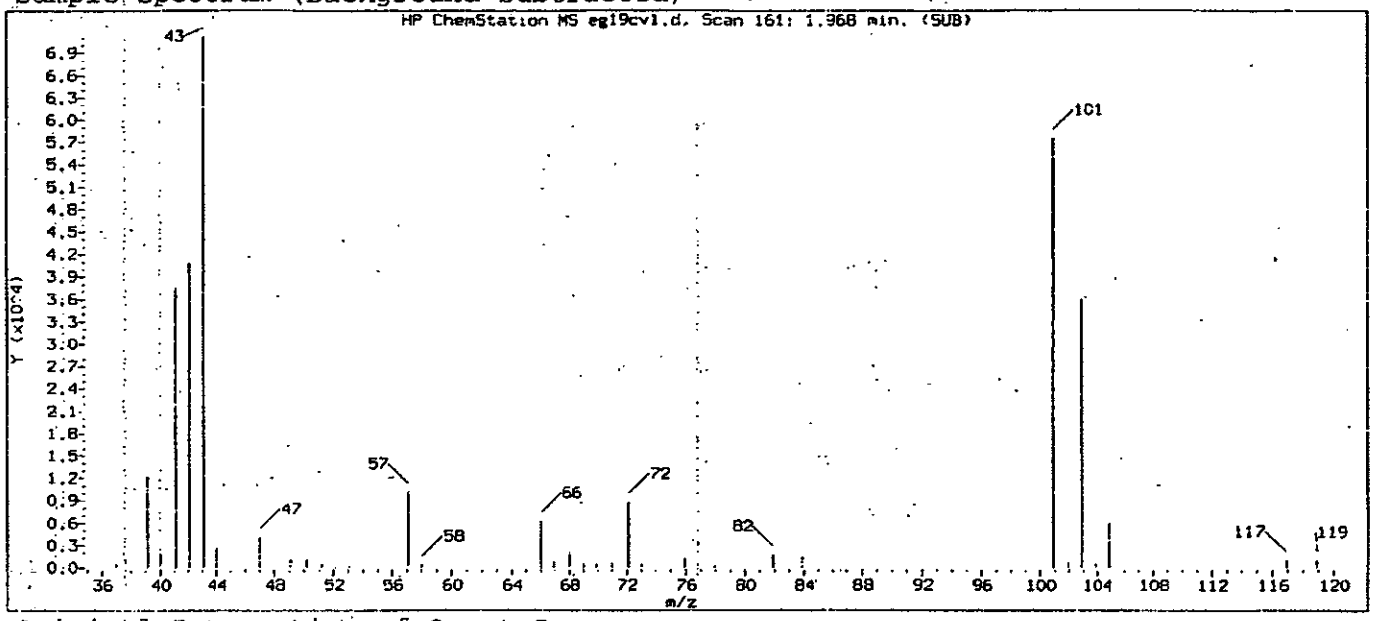
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

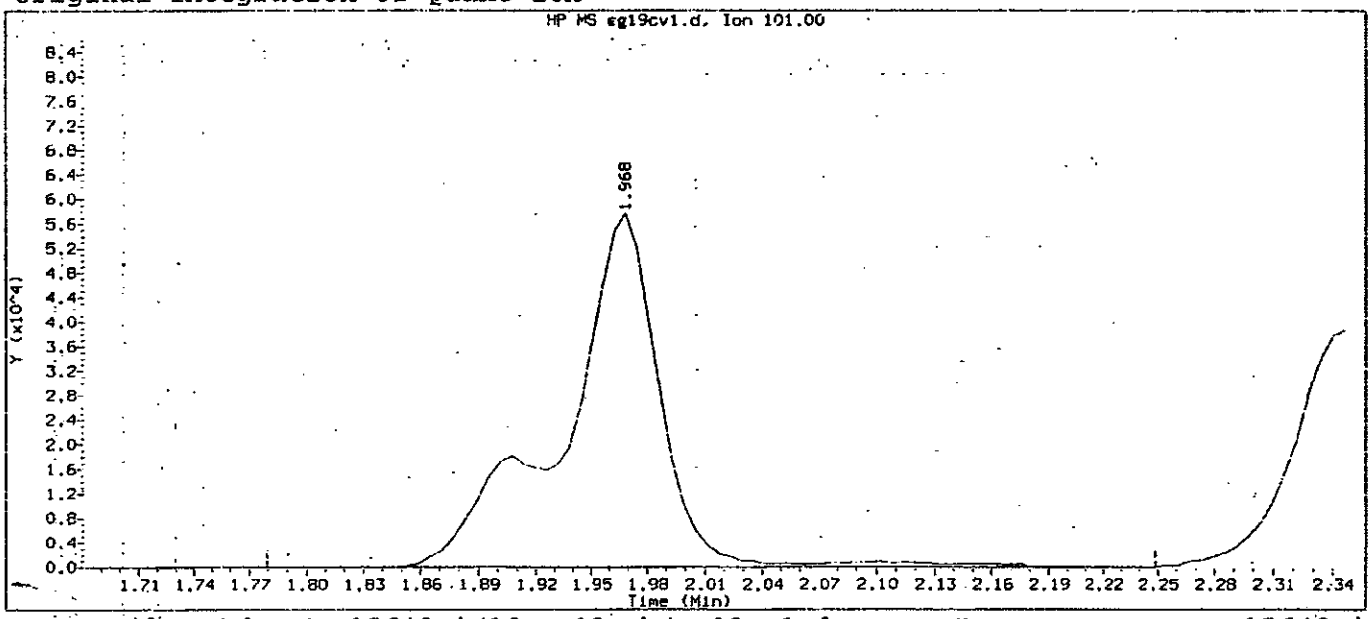
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0446

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

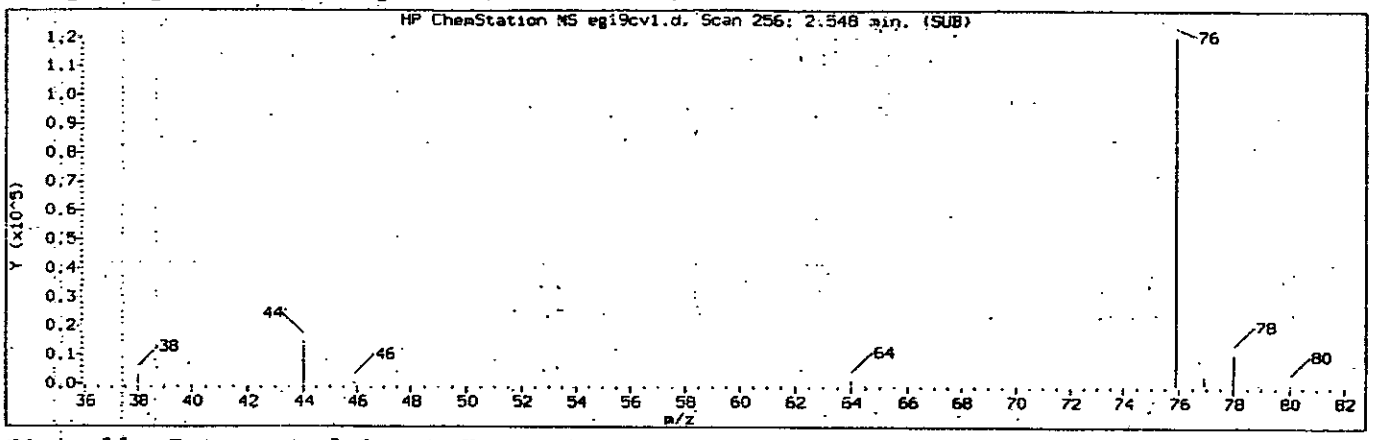
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 8		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 161		
Retention Time (minutes)	: 1.968		
Quant Ion	: 101.00		
Area	: 205657		
On-column Amount (ng)	: 17.3770		
Integration start scan	: 129	Integration stop scan:	206
Y at integration start	: 0	Y at integration end:	0

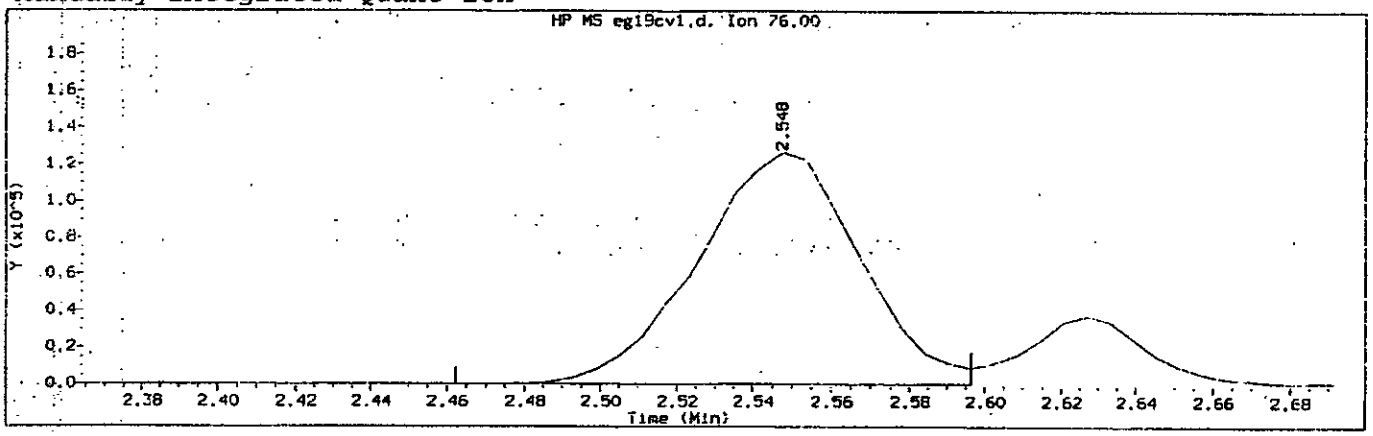
PTL86 8447

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 21		
Compound Name	: Carbon Disulfide		
Scan Number	: 256		
Retention Time (minutes)	: 2.548		
Quant Ion	: 76.00		
Area (flag)	: 366135M		
On-Column Amount (ng)	: 18.7775		
Integration start scan	: 241	Integration stop scan:	263
Y at integration start	: 0	Y at integration end:	0

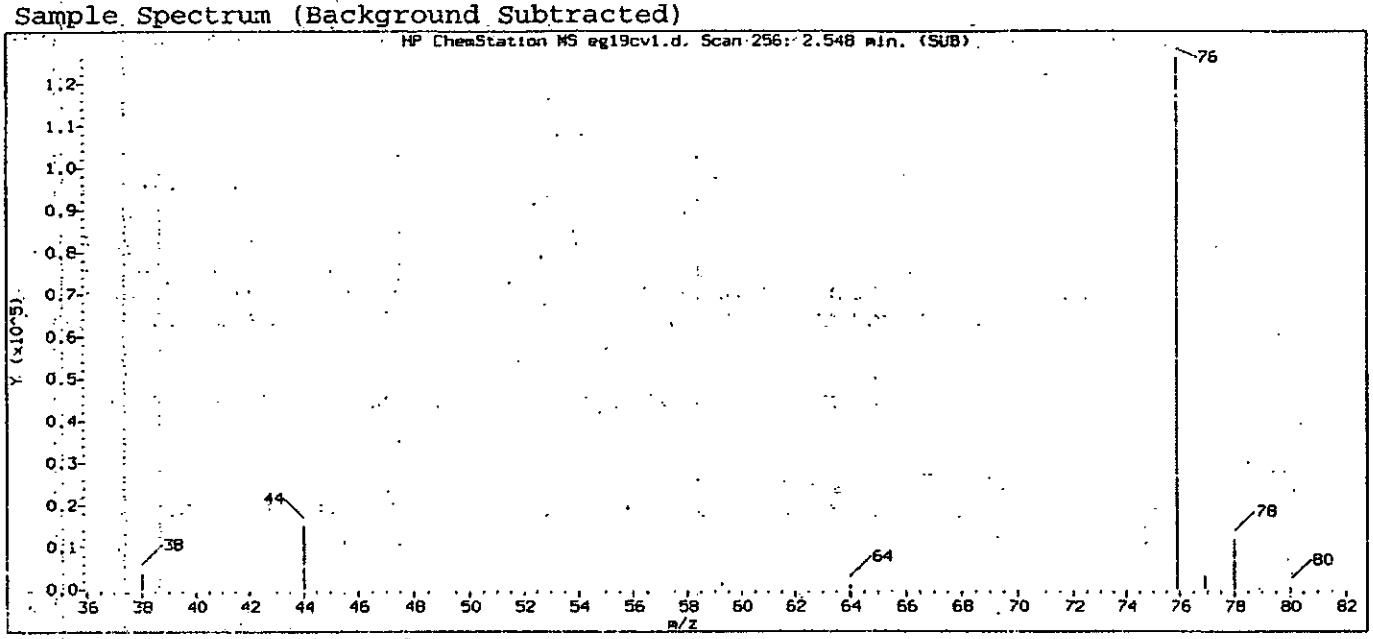
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

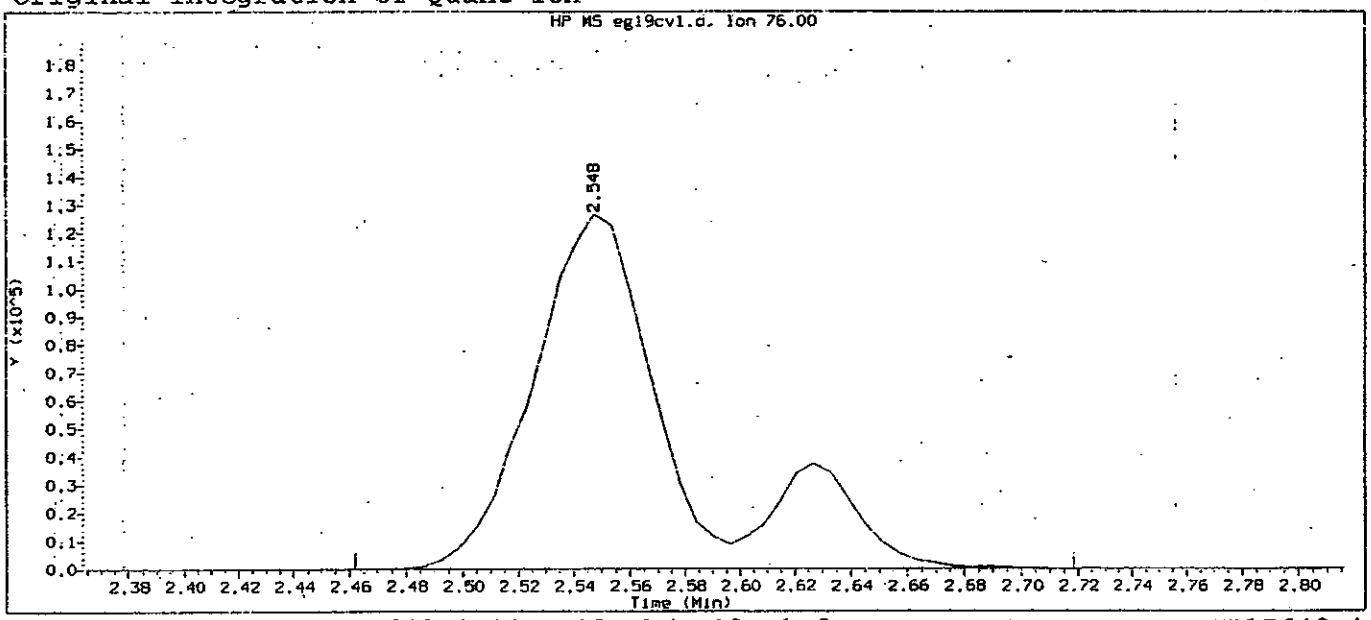
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0448

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

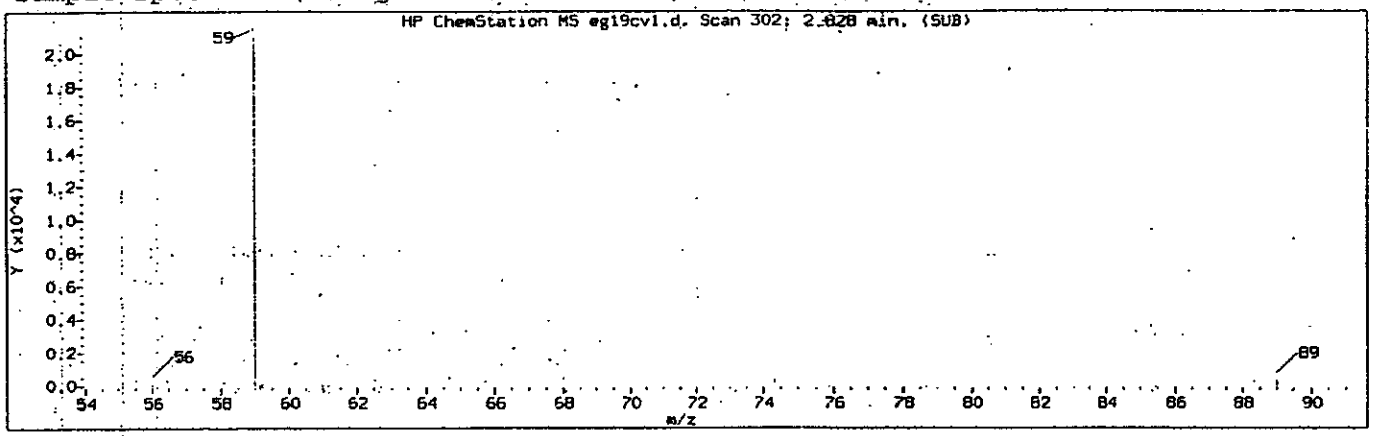
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 21
Compound Name : Carbon Disulfide
Scan Number : 256
Retention Time (minutes): 2.548
Quant Ion : 76.00
Area : 447067
On-column Amount (ng) : 22.9287
Integration start scan : 241 Integration stop scan: 283
Y at integration start : 0 Y at integration end: 0

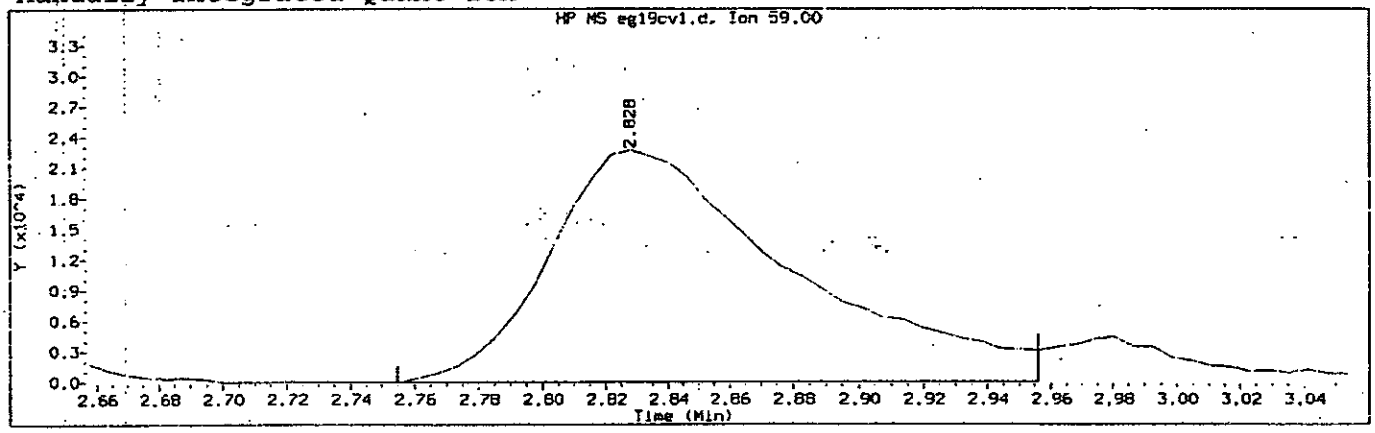
PTL06 0449

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

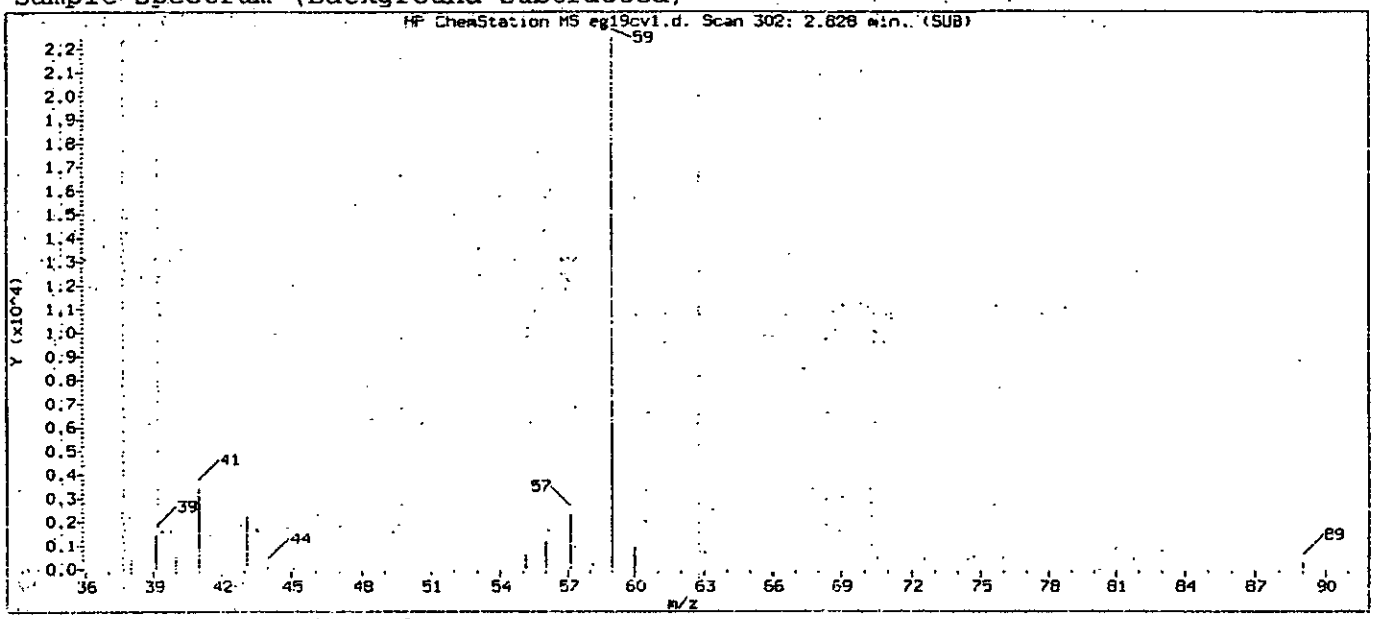
Compound Number	: 26		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 302		
Retention Time (minutes)	: 2.828		
Quant Ion	: 59.00		
Area (flag)	: 121752M		
On-Column Amount (ng)	: 179.9695		
Integration start scan	: 289	Integration stop scan:	322
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

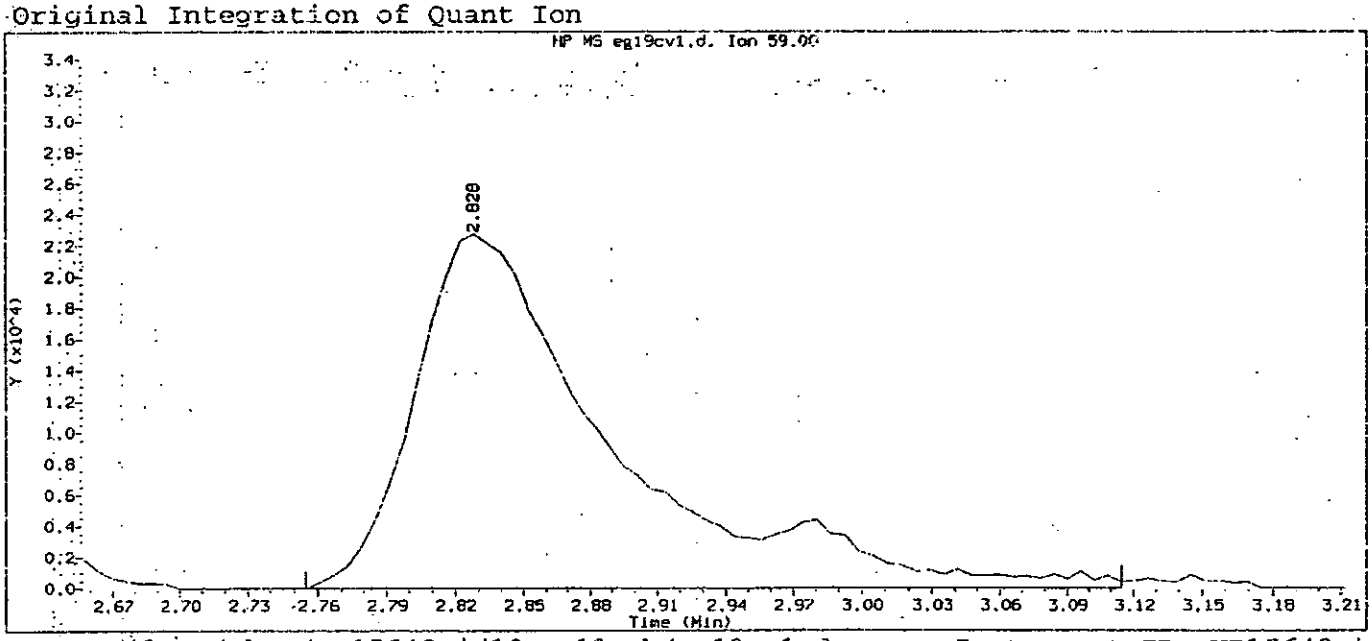
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [signature] 8/20/10 PTL06 0450

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

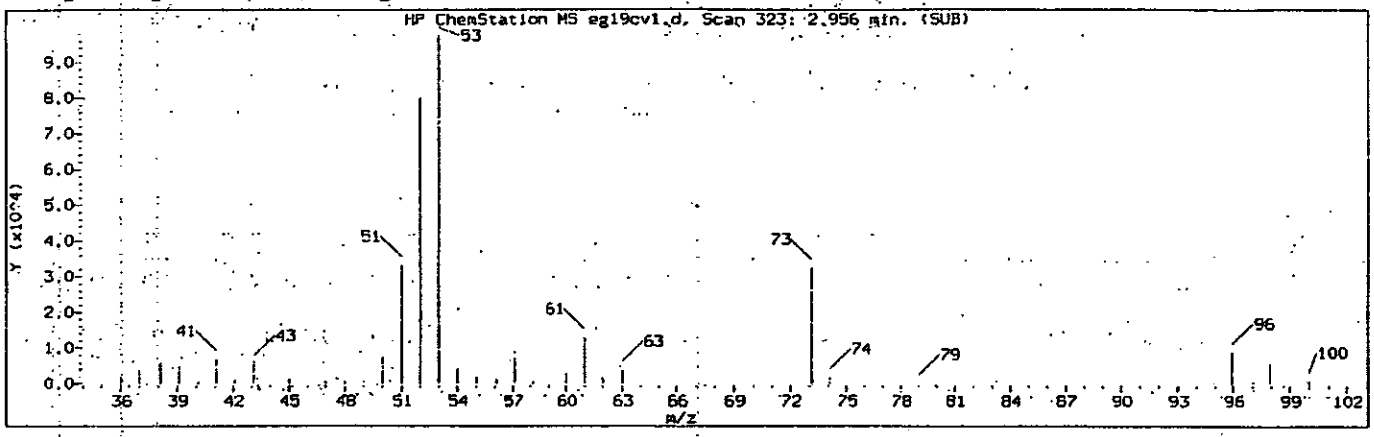
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	:	26
Compound Name	:	t-Butyl Alcohol
Scan Number	:	302
Retention Time (minutes)	:	2.828
Quant Ion	:	59.00
Area	:	137390
On-column Amount (ng)	:	215.6966
Integration start scan	:	289
Integration stop scan	:	348
Y at integration start	:	0
Y at integration end	:	0

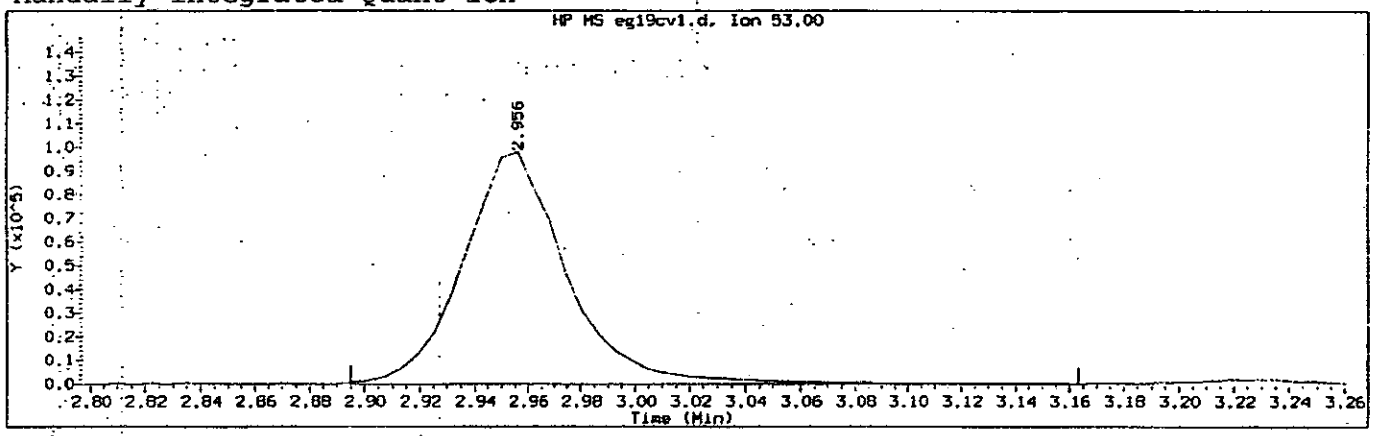
PTL86 8451

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 27		
Compound Name	: Acrylonitrile		
Scan Number	: 323		
Retention Time (minutes)	: 2.956		
Quant Ion	: 53.00		
Area (flag)	: 264979M		
On-Column Amount (ng)	: 78.7830		
Integration start scan	: 312	Integration stop scan:	356
Y at integration start	: 0	Y at integration end:	0

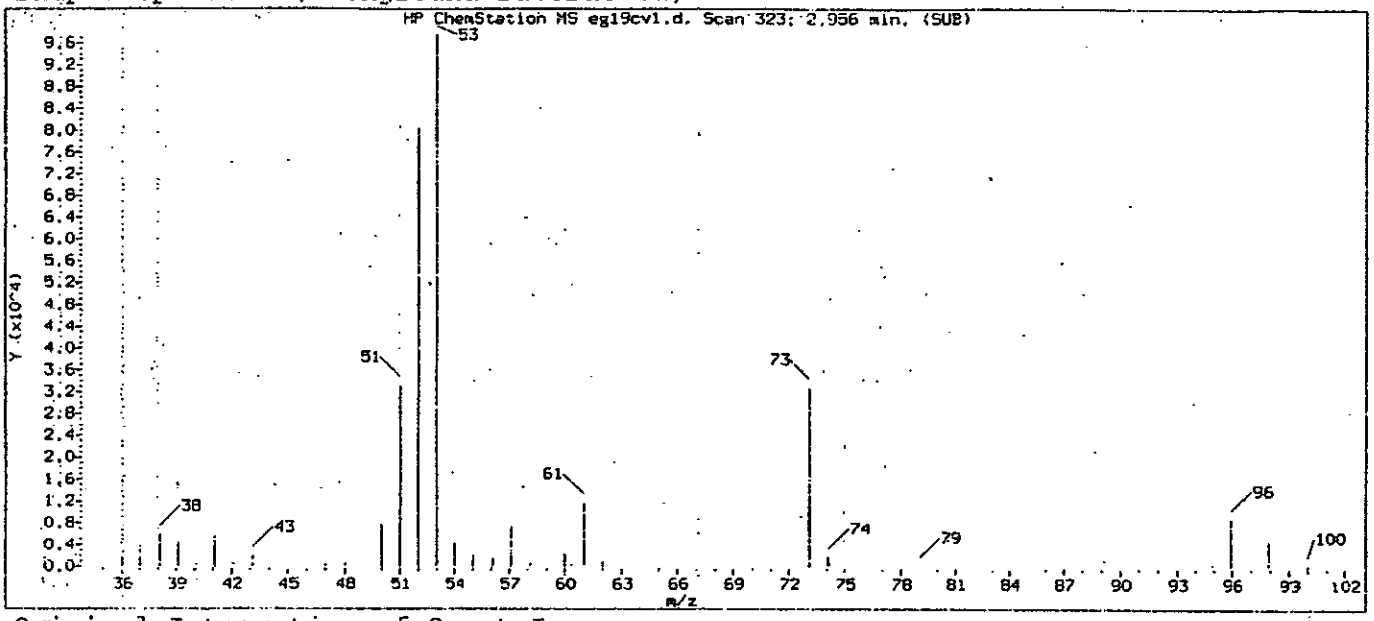
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

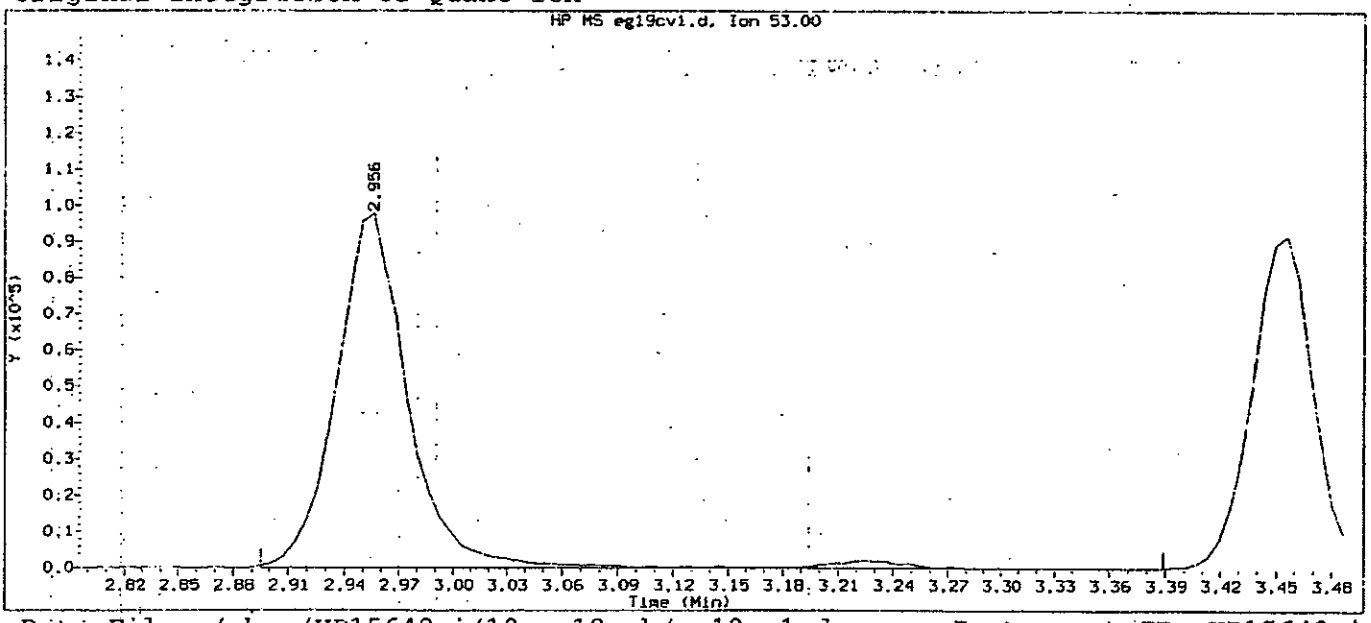
GC/MS audit/management approval: 8/20/10

PTL06 0452

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

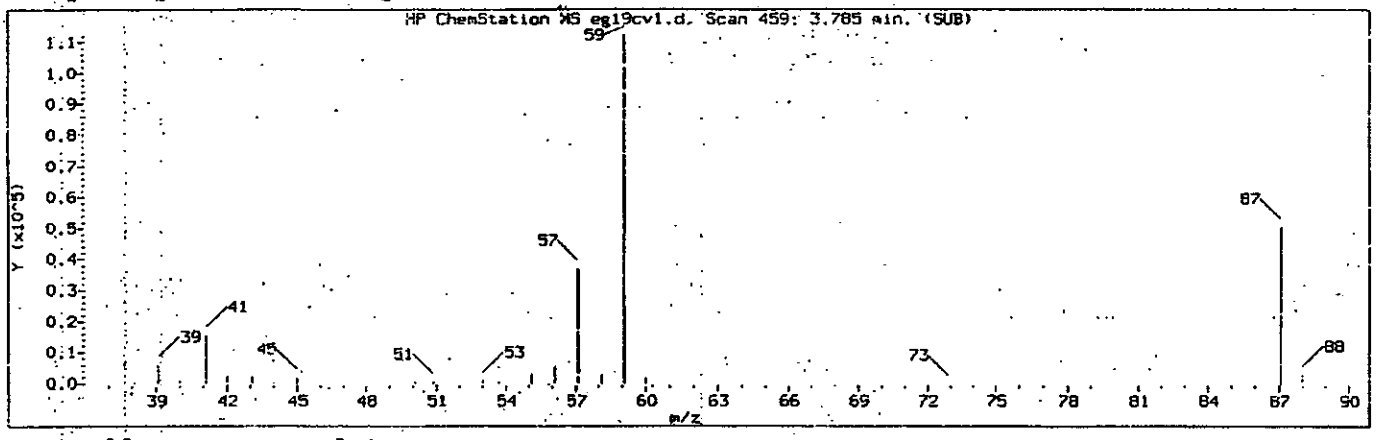
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 27
Compound Name : Acrylonitrile
Scan Number : 323
Retention Time (minutes): 2.956
Quant Ion : 53.00
Area : 271104
On-column Amount (ng) : 80.6043
Integration start scan : 312 Integration stop scan: 393
Y at integration start : 0 Y at integration end: 0

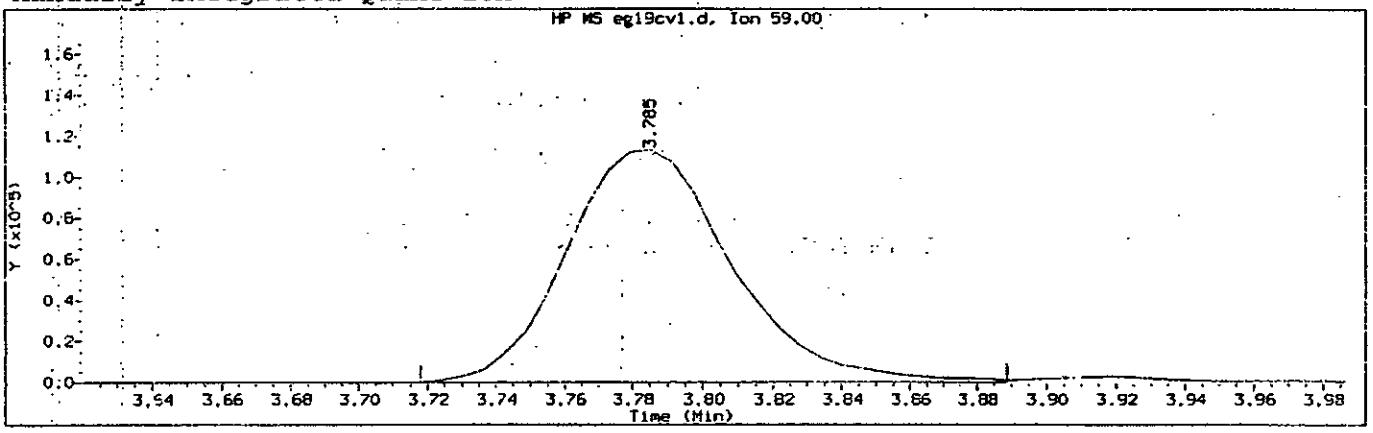
PTL06 0453

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 37		
Compound Name	: Ethyl t-Butyl Ether		
Scan Number	: 459		
Retention Time (minutes)	: 3.785		
Quant Ion	: 59.00		
Area (flag)	: 372916M		
On-Column Amount (ng)	: 18.0240		
Integration start scan	: 447	Integration stop scan:	475
Y at integration start	: 0	Y at integration end:	0

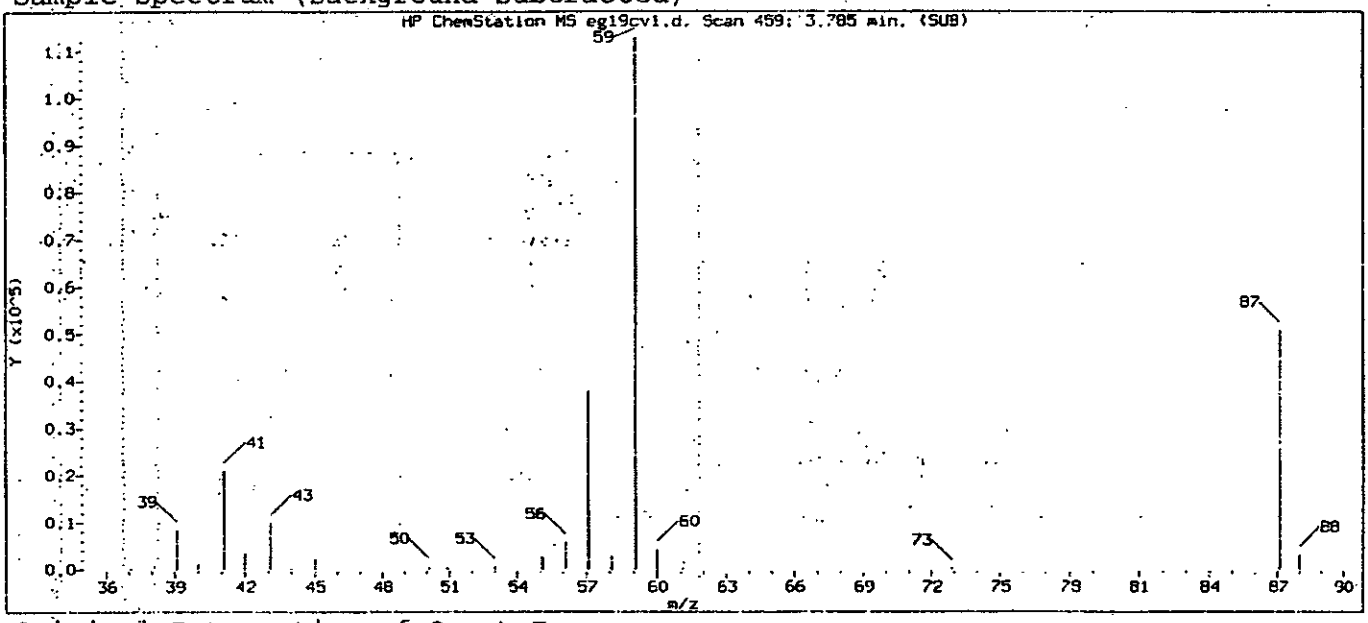
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

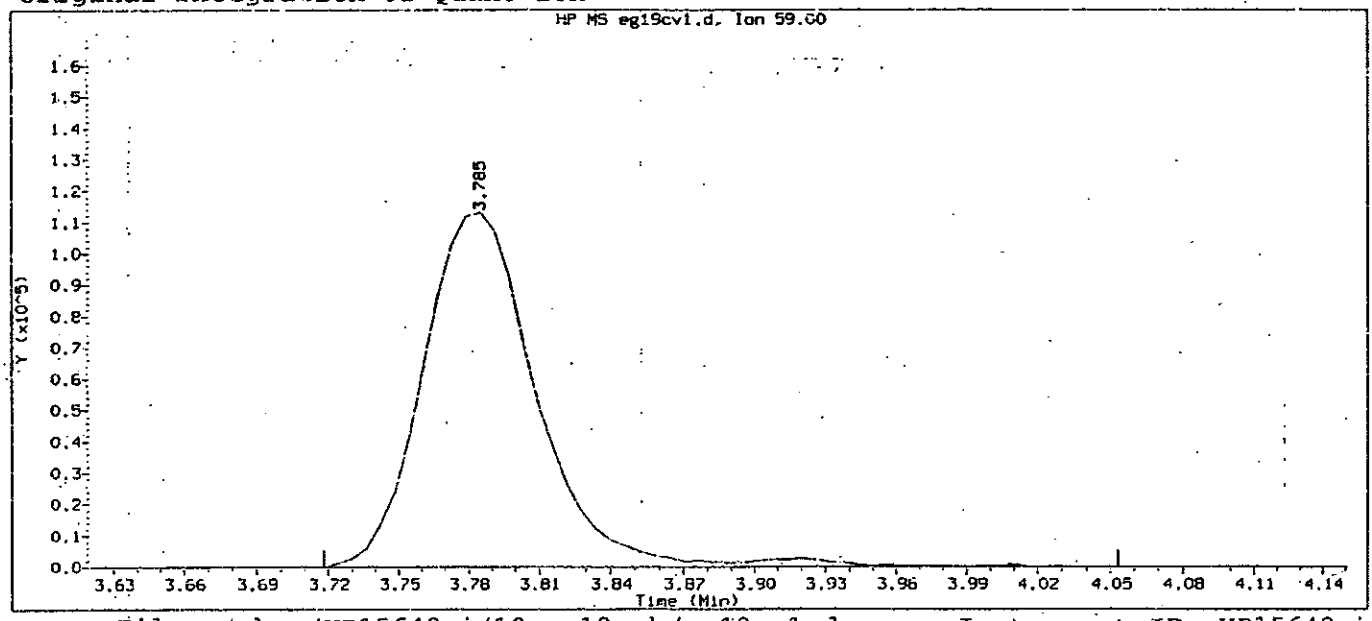
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0454

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

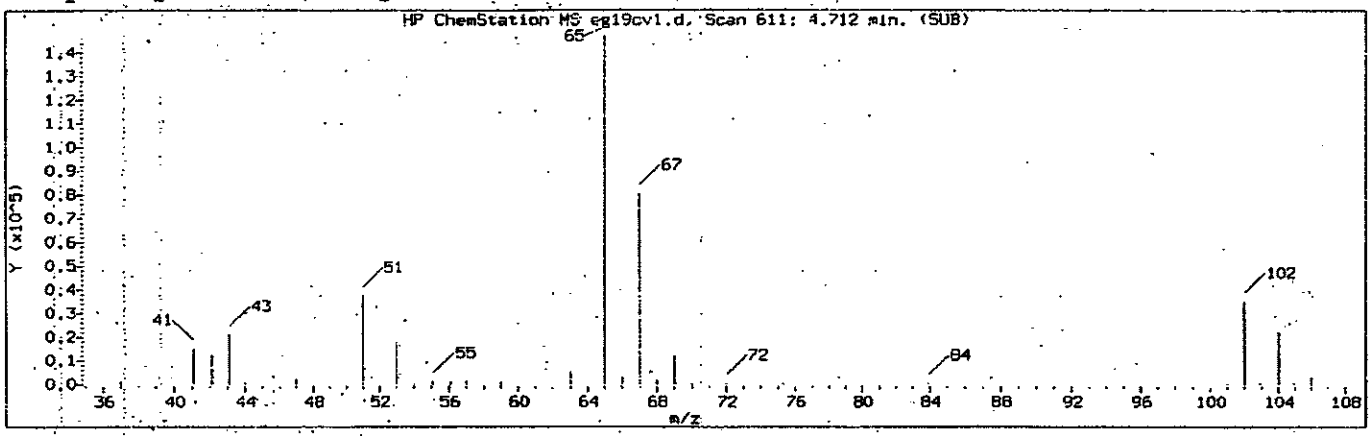
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 37		
Compound Name	: Ethyl t-Butyl Ether		
Scan Number	: 459		
Retention Time (minutes)	: 3.785		
Quant Ion	: 59.00		
Area	: 381531		
On-column Amount (ng)	: 18.4403		
Integration start scan	: 447	Integration stop scan:	502
Y at integration start	: 0	Y at integration end:	0

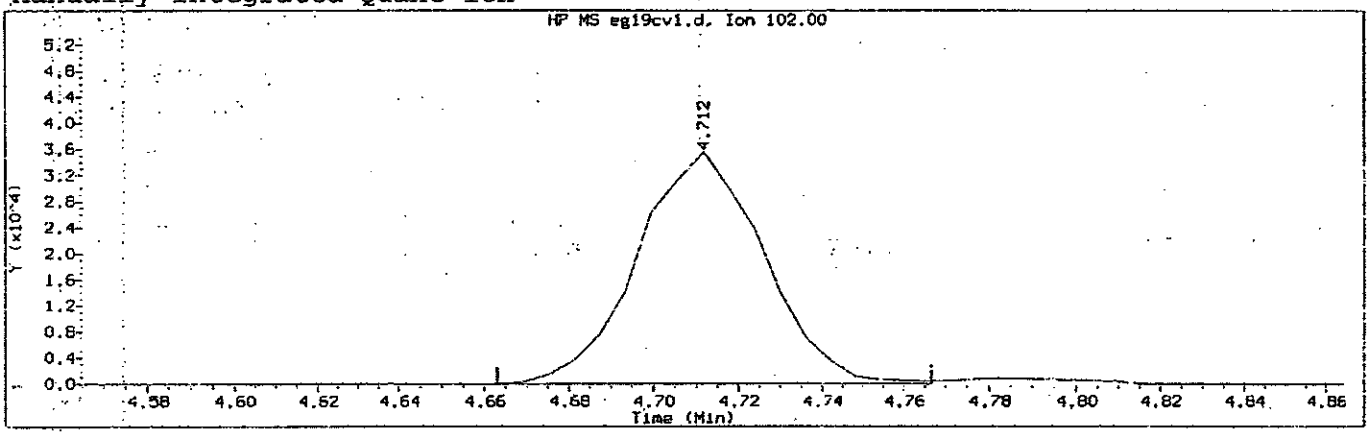
PTL86 0455

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 59		
Compound Name	: 1,2-Dichloroethane-d4		
Scan Number	: 611		
Retention Time (minutes)	: 4.712		
Quant Ion	: 102.00		
Area (flag)	: 73656M		
On-Column Amount (ng)	: 49.7688		
Integration start scan	: 602	Integration stop scan:	619
Y at integration start	: 0	Y at integration end:	0

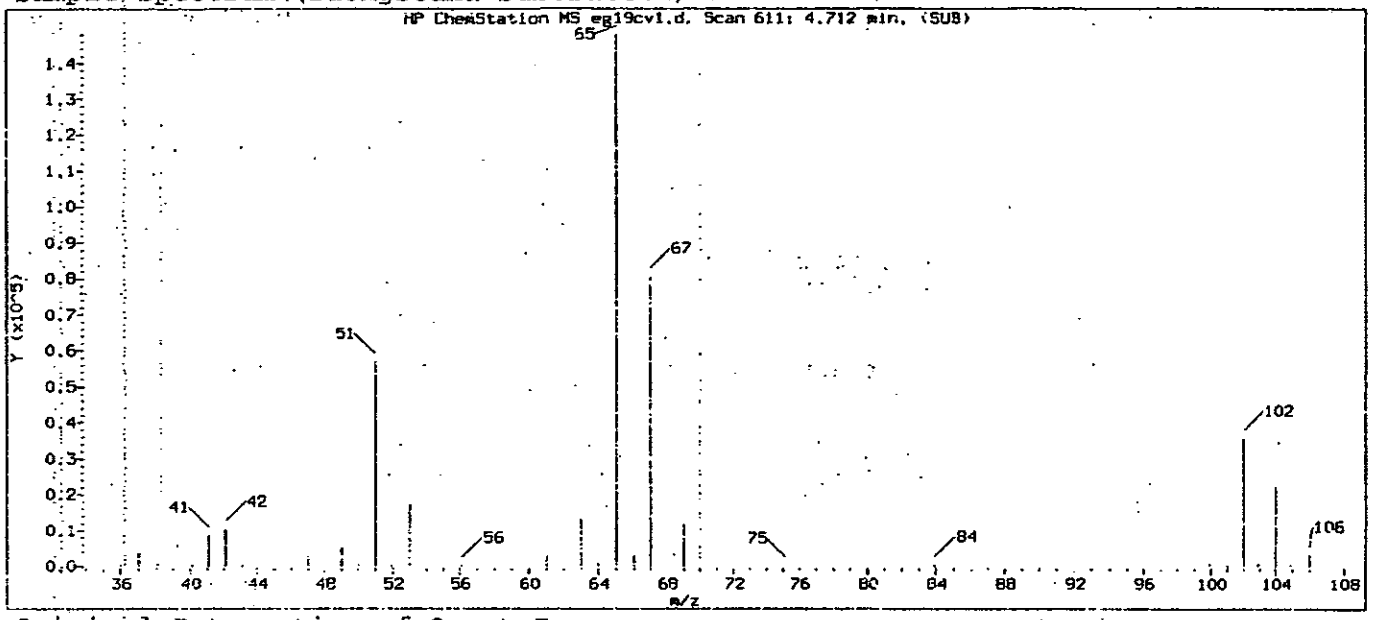
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

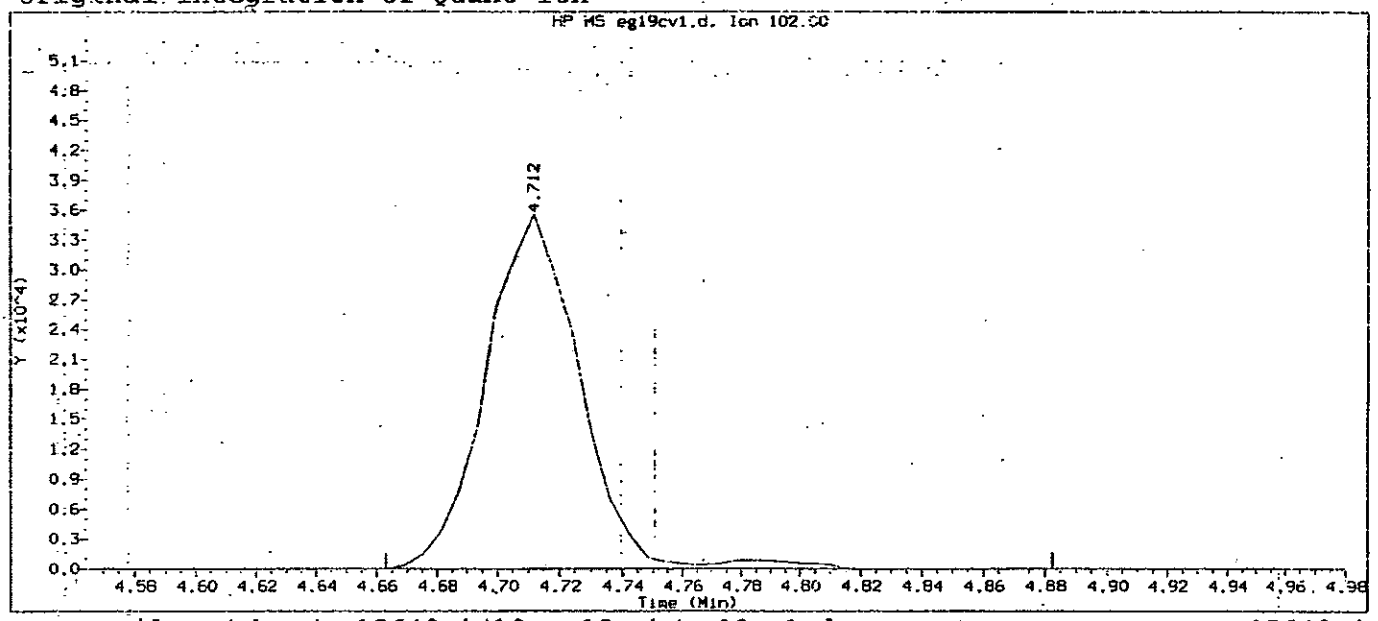
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8456

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

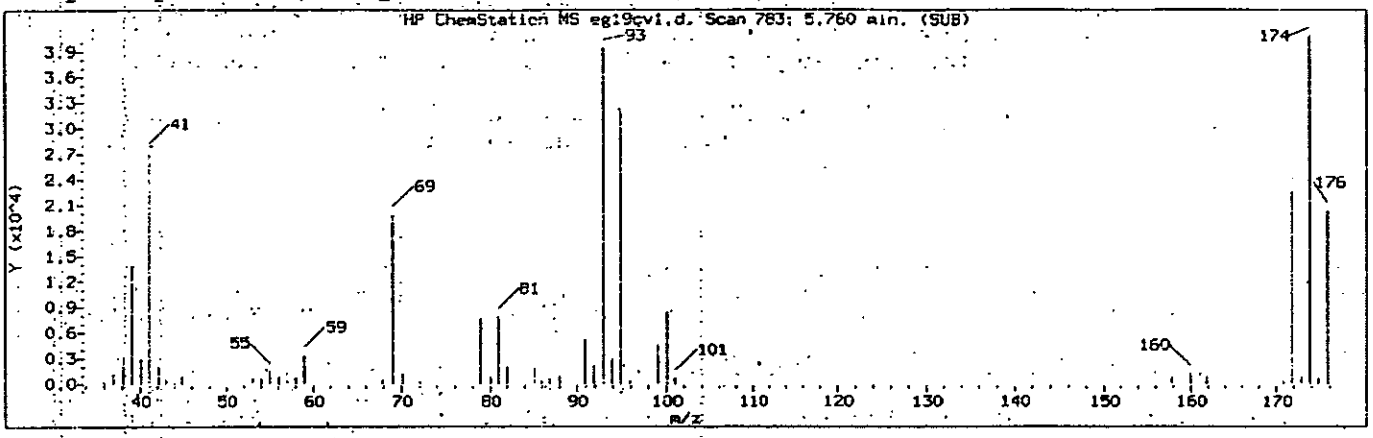
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 59
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 611
Retention Time (minutes): 4.712
Quant Ion : 102.00
Area : 75296
On-column Amount (ng) : 13.9868
Integration start scan : 602 Integration stop scan: 638
Y at integration start : 0 Y at integration end: 0

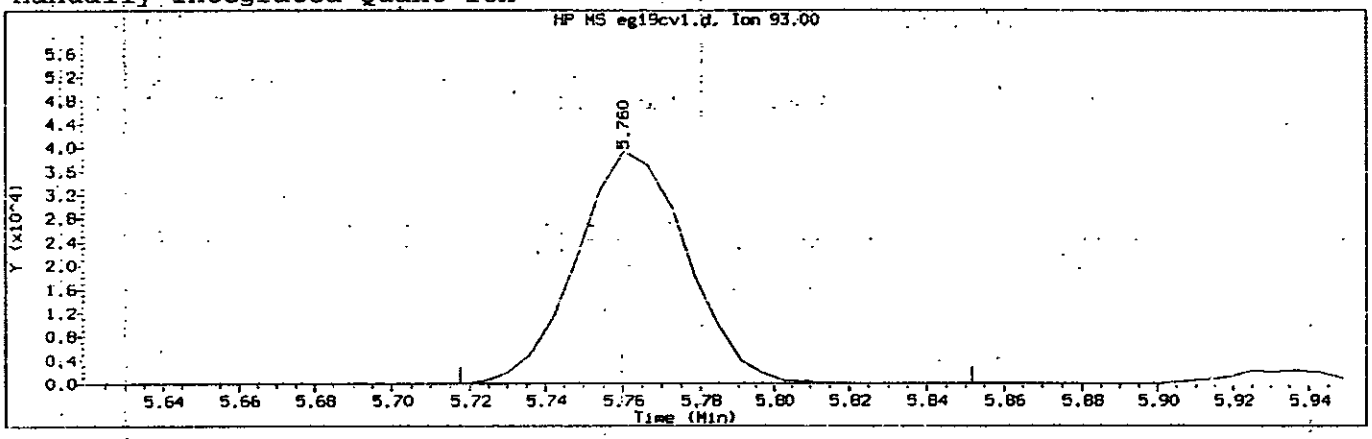
PTL06 0457

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

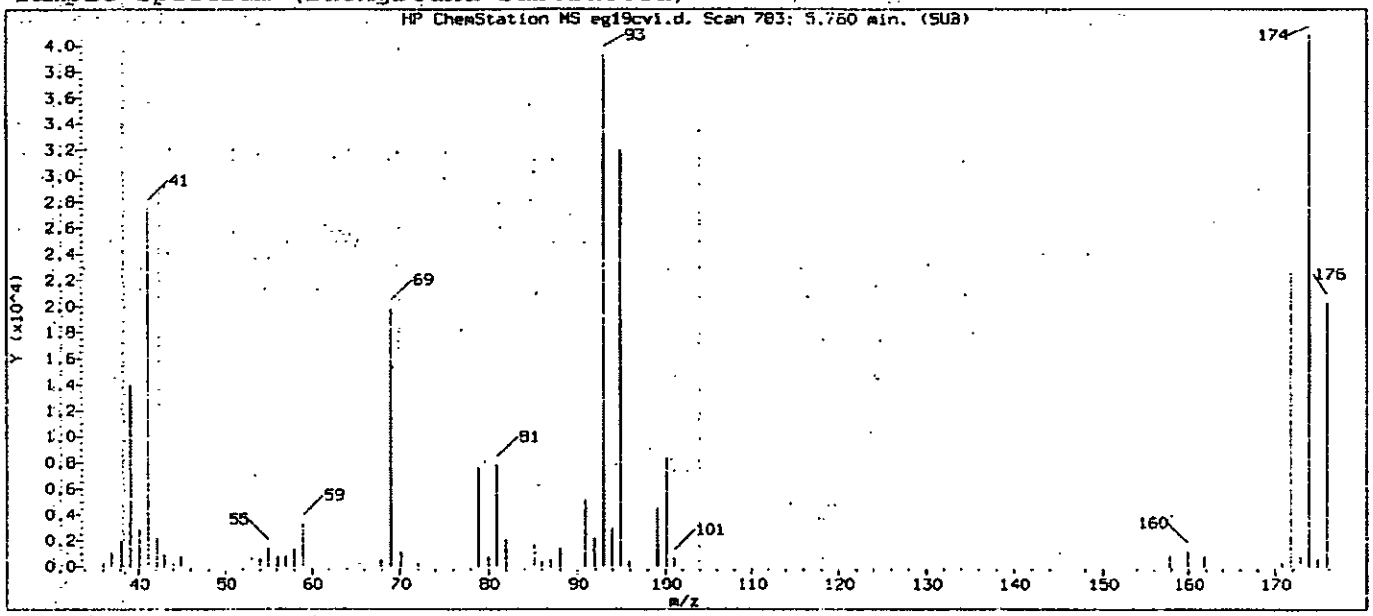
Compound Number : 78
Compound Name : Dibromomethane
Scan Number : 783
Retention Time (minutes): 5.760
Quant Ion : 93.00
Area (flag) : 77969M
On-Column Amount (ng) : 17.8444
Integration start scan : 775 Integration stop scan: 797
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

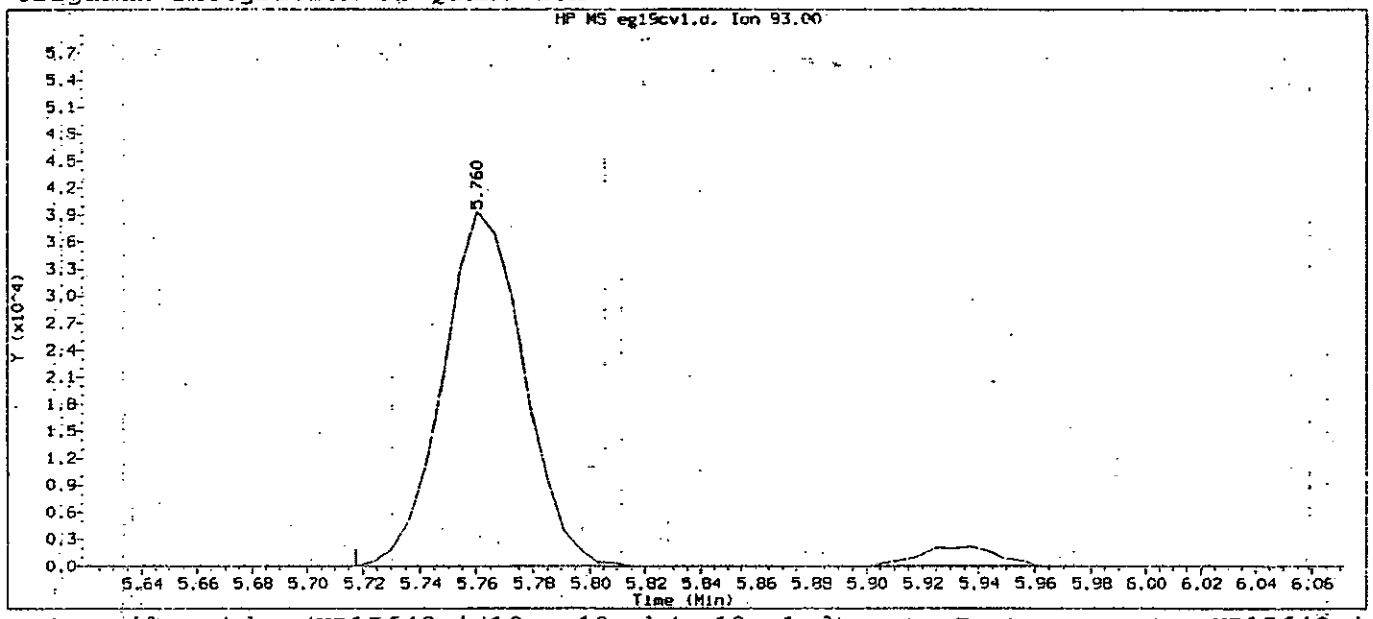
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [illegible] 8/20/10 PTL86 8450

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

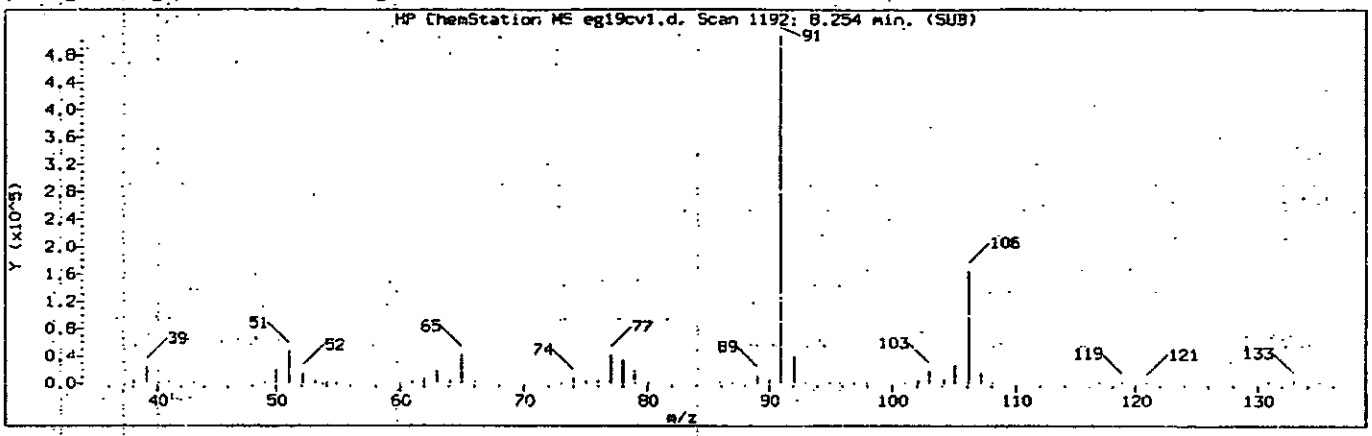
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 78		
Compound Name	: Dibromomethane		
Scan Number	: 783		
Retention Time (minutes)	: 5.760		
Quant Ion	: 93.00		
Area	: 82180		
On-column Amount (ng)	: 18.8084		
Integration start scan	: 775	Integration stop scan:	817
Y at integration start	: 0	Y at integration end:	0

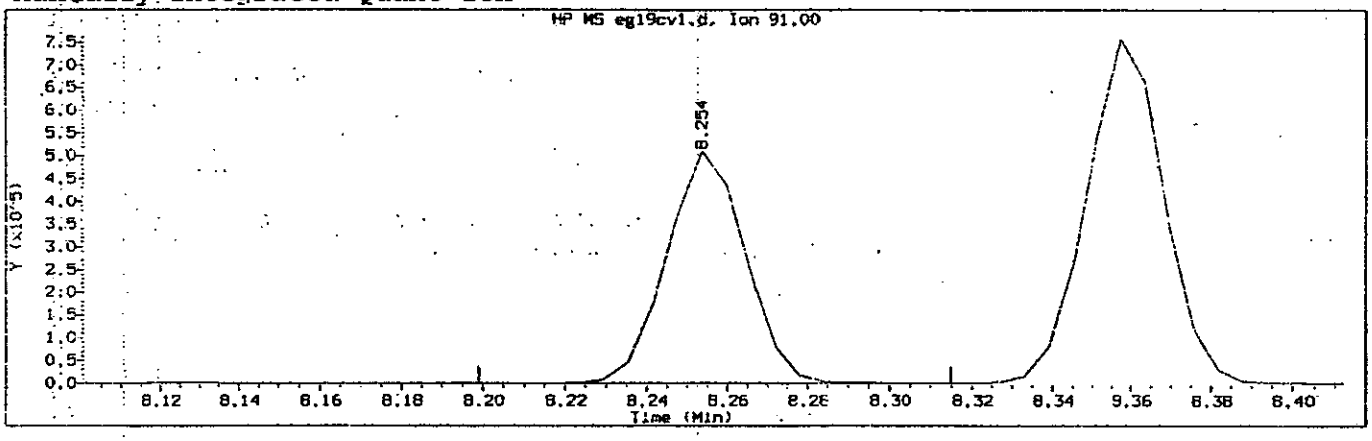
PTL86 8459

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 107		
Compound Name	: Ethylbenzene		
Scan Number	: 1192		
Retention Time (minutes)	: 8.254		
Quant Ion	: 91.00		
Area (flag)	: 685821M		
On-Column Amount (ng)	: 18.0917		
Integration start scan	: 1182	Integration stop scan:	1201
Y at integration start	: 0	Y at integration end:	385

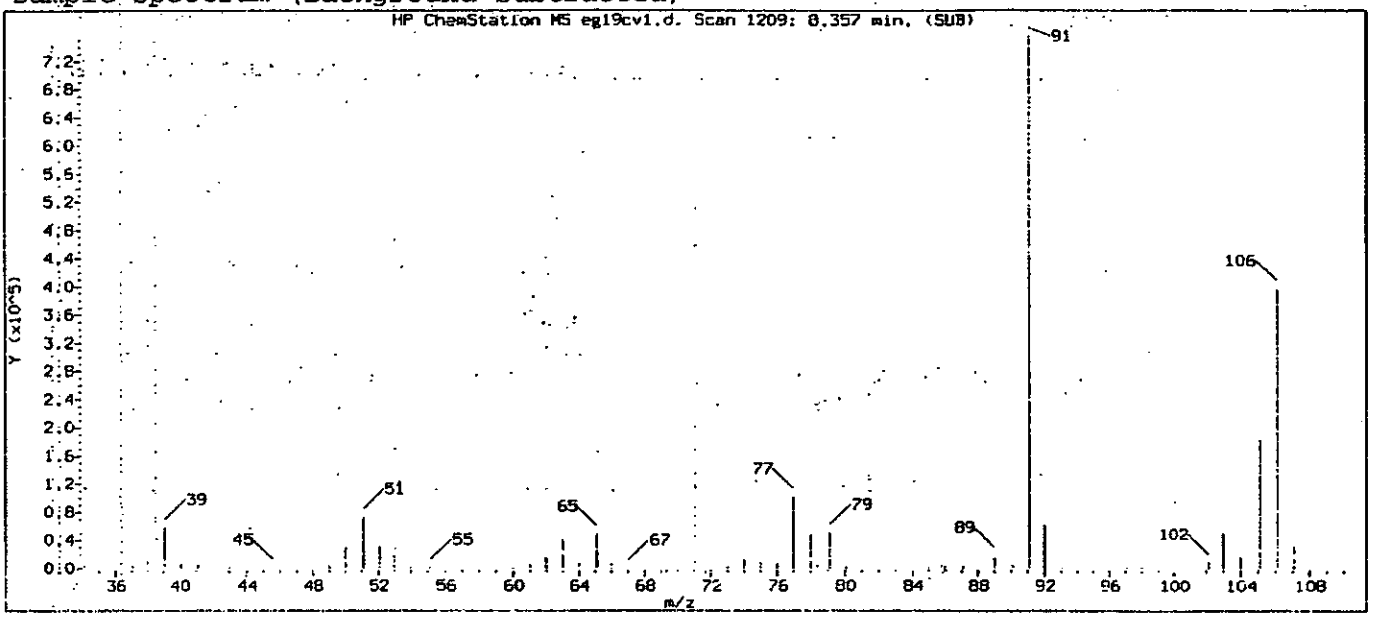
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

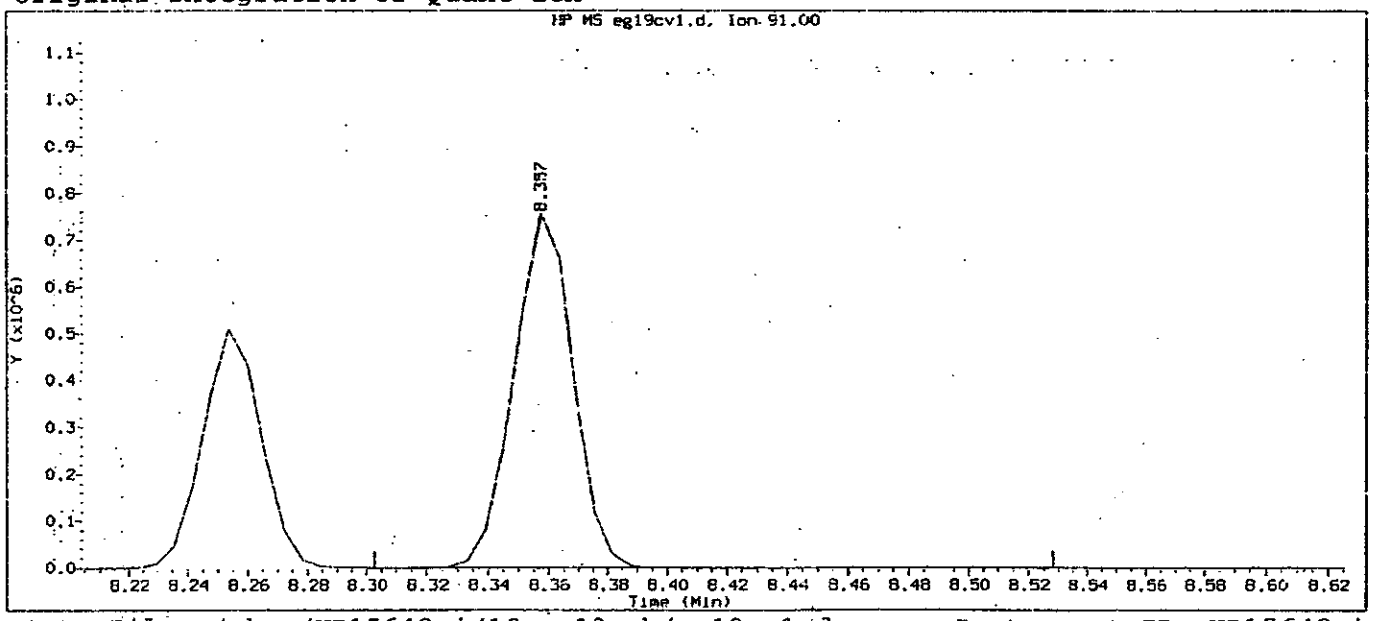
GC/MS audit/management approval: [signature] 8/20/10

PTL55 0460

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

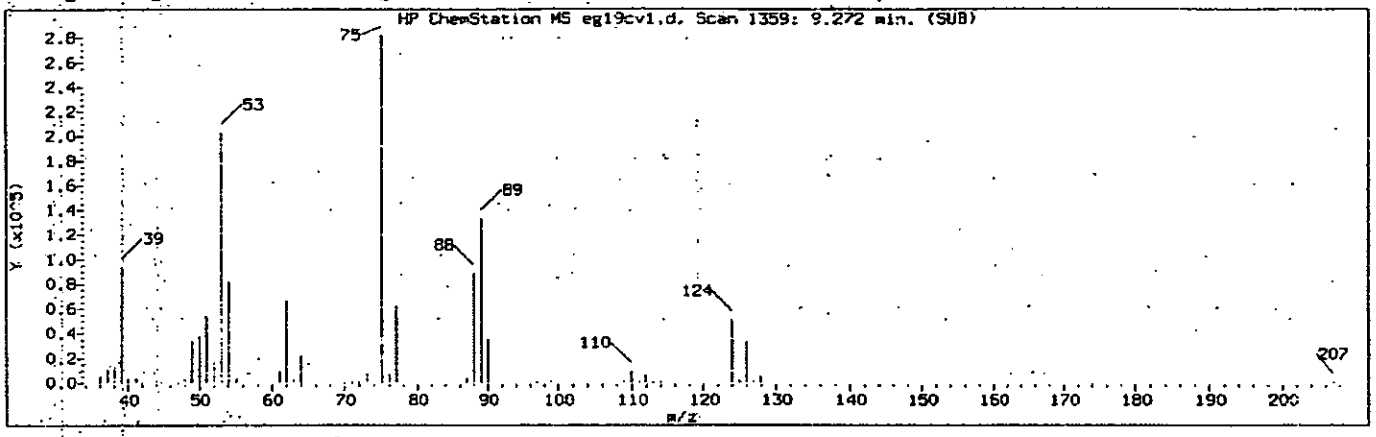
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 107
Compound Name : Ethylbenzene
Scan Number : 1209
Retention Time (minutes): 8.357
Quant Ion : 91.00
Area : 1034924
On-column Amount (ng) : 25.3003
Integration start scan : 1199 Integration stop scan: 1236
Y at integration start : 0 Y at integration end: 0

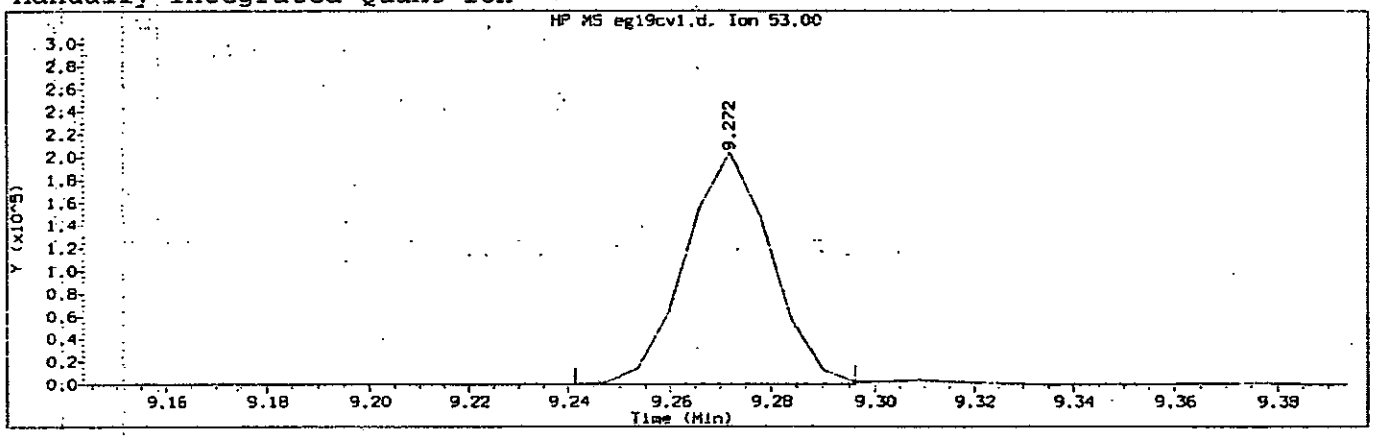
PTL86 E461

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area (flag) : 240834M
On-Column Amount (ng) : 85.1089
Integration start scan : 1353 Integration stop scan: 1362
Y at integration start : 0 Y at integration end: 0

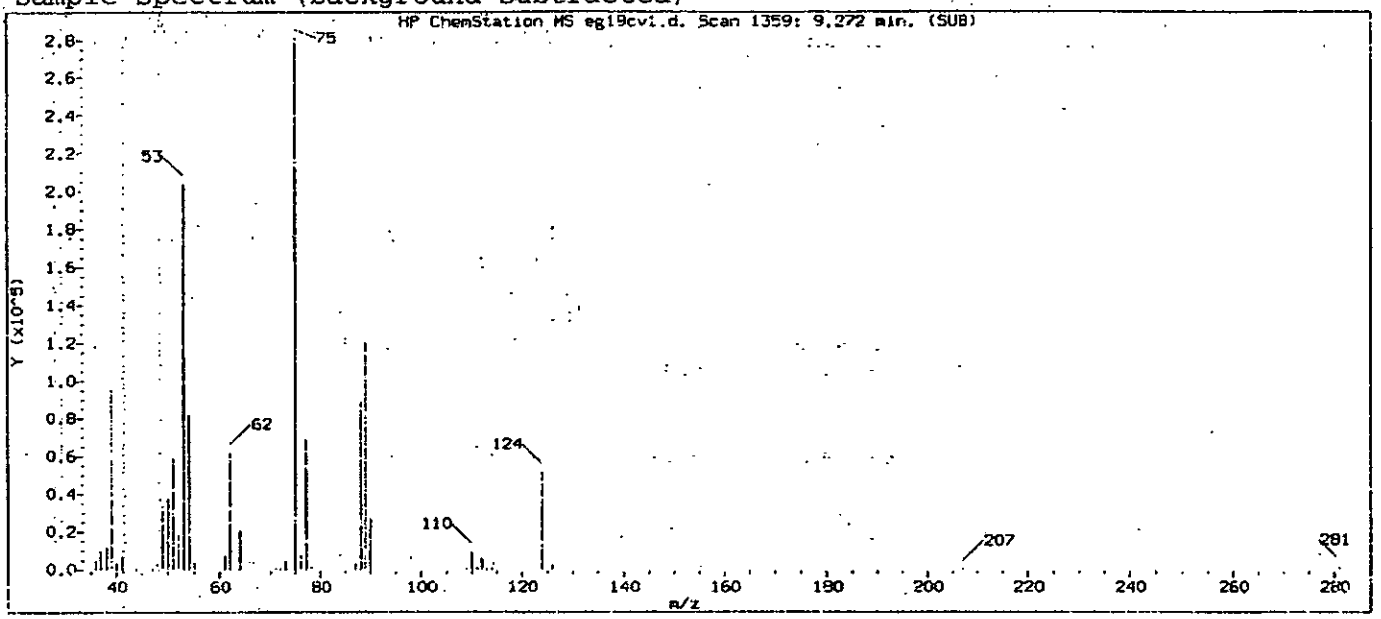
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

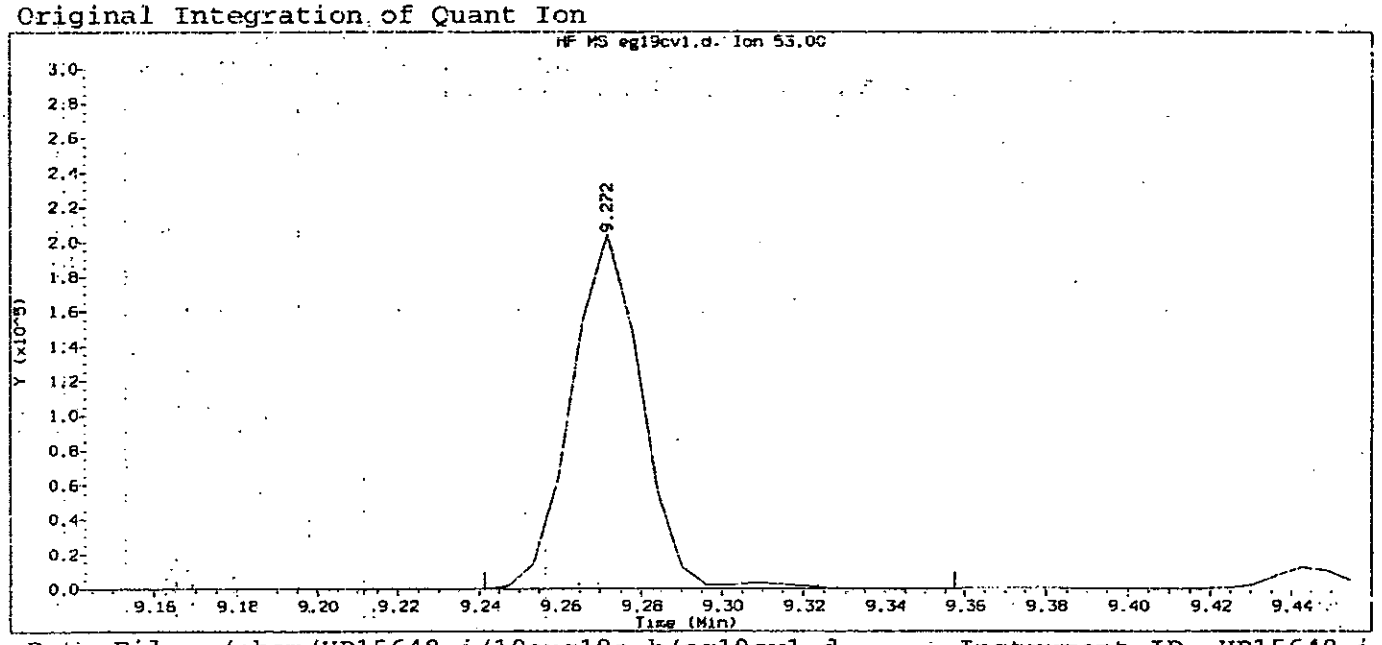
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8462

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

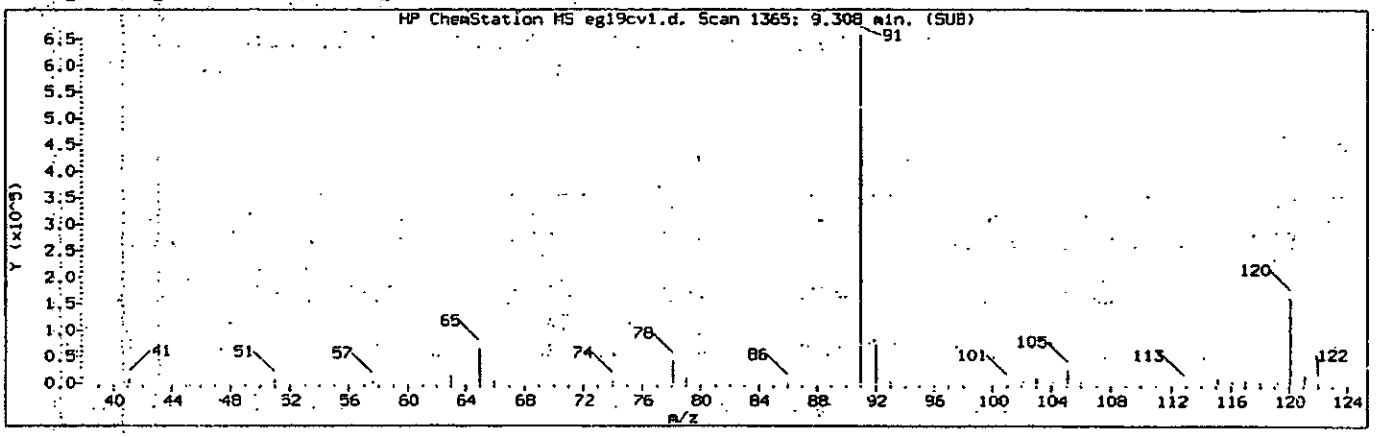
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 244689
On-column Amount (ng) : 86.4714
Integration start scan : 1353 Integration stop scan: 1372
Y at integration start : 0 Y at integration end: 0

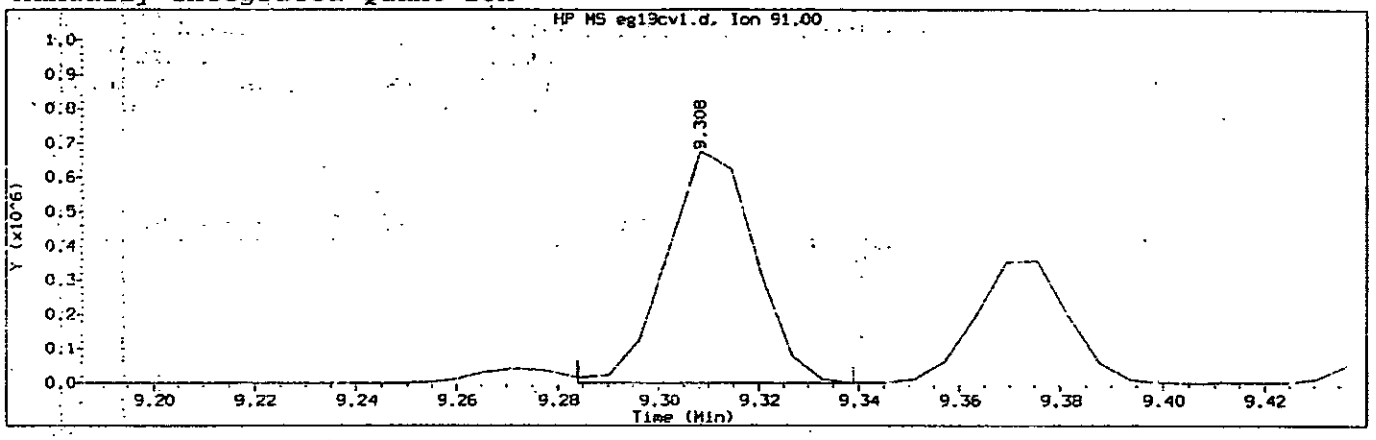
PTL86 0463

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W.
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1365
Retention Time (minutes): 9.308
Quant Ion : 91.00
Area (flag) : 834213M
On-Column Amount (ng) : 18.7727
Integration start scan : 1360 Integration stop scan: 1369
Y at integration start : 0 Y at integration end: 0

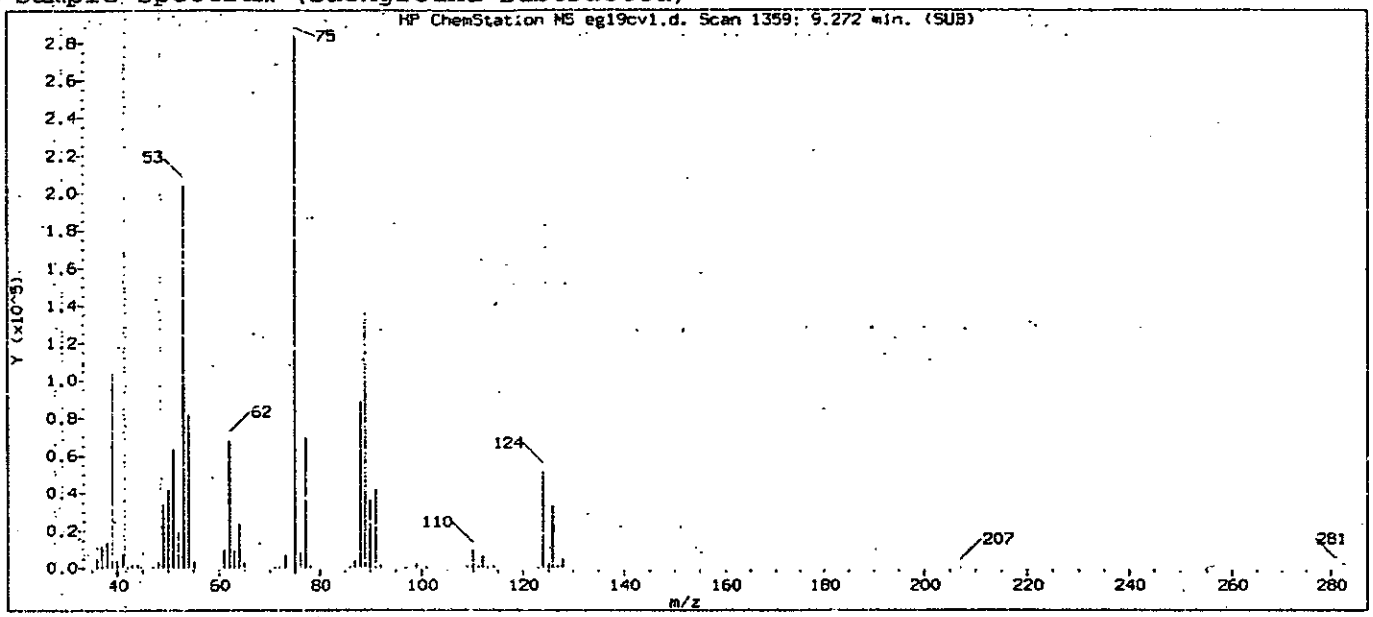
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

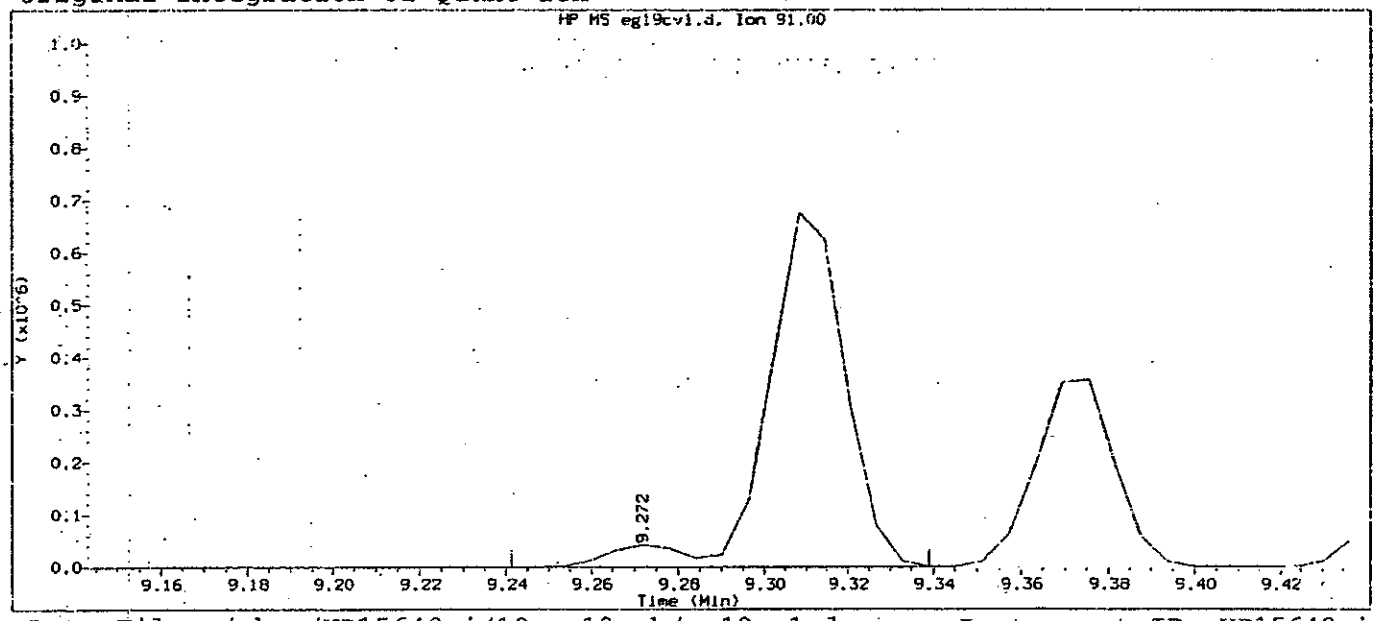
GC/MS audit/management approval: [signature] 8/20/10

PTL86 0464

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

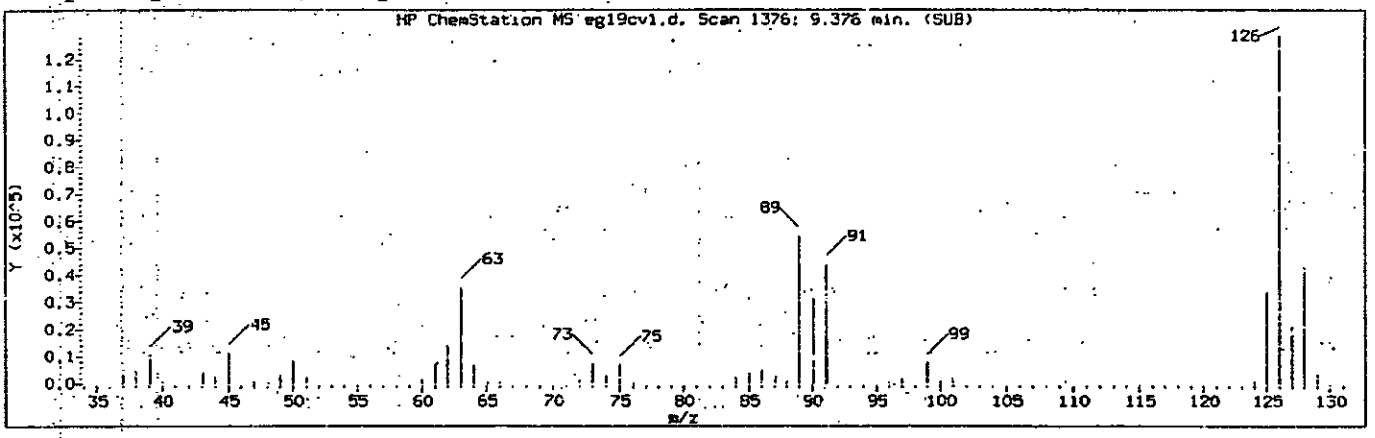
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 122
Compound Name : n-Propylbenzene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 91.00
Area : 880164
On-column Amount (ng) : 19.8068
Integration start scan : 1353 Integration stop scan: 1369
Y at integration start : 0 Y at integration end: 0

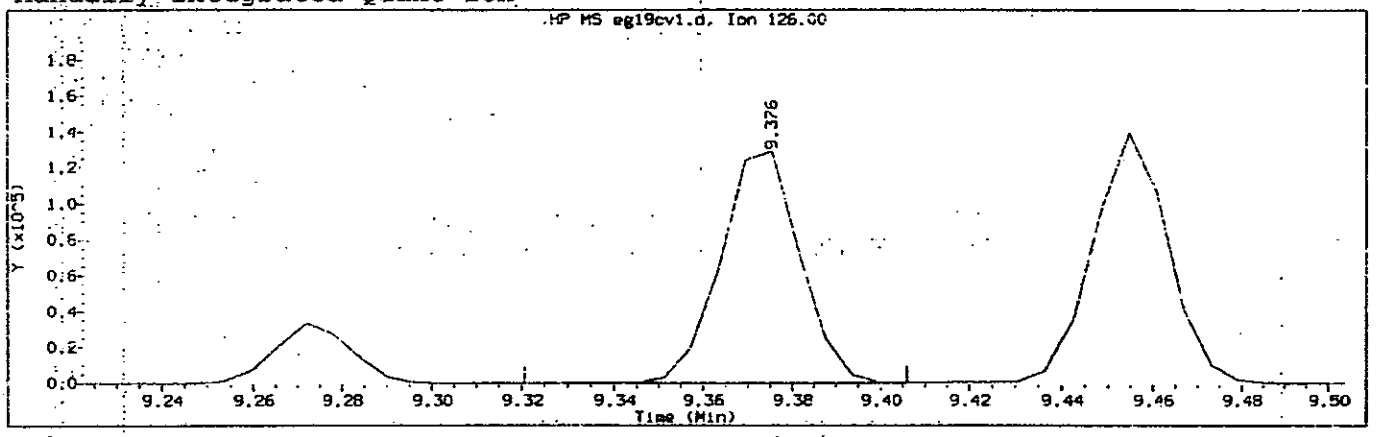
PTL06 0465

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 123		
Compound Name	: 2-Chlorotoluene		
Scan Number	: 1376		
Retention Time (minutes)	: 9.376		
Quant Ion	: 126.00		
Area (flag)	: 161537M		
On-Column Amount (ng)	: 18.2298		
Integration start scan	: 1366	Integration stop scan:	1380
Y at integration start	: 0	Y at integration end:	0

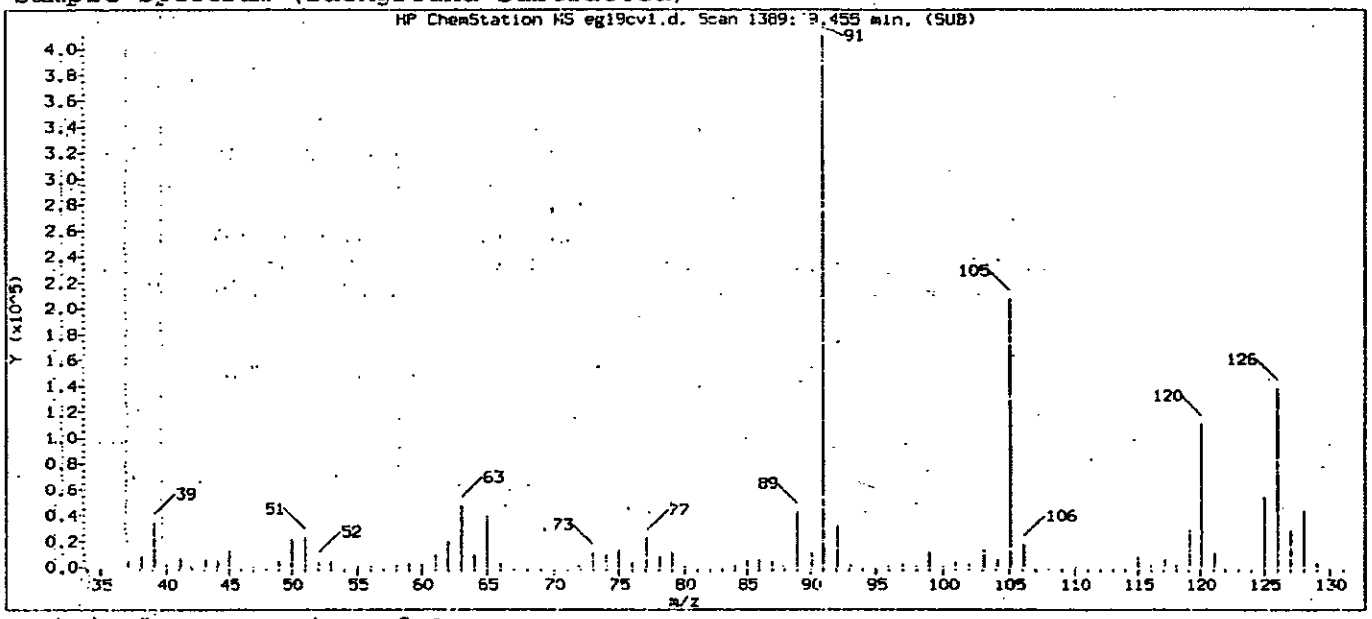
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

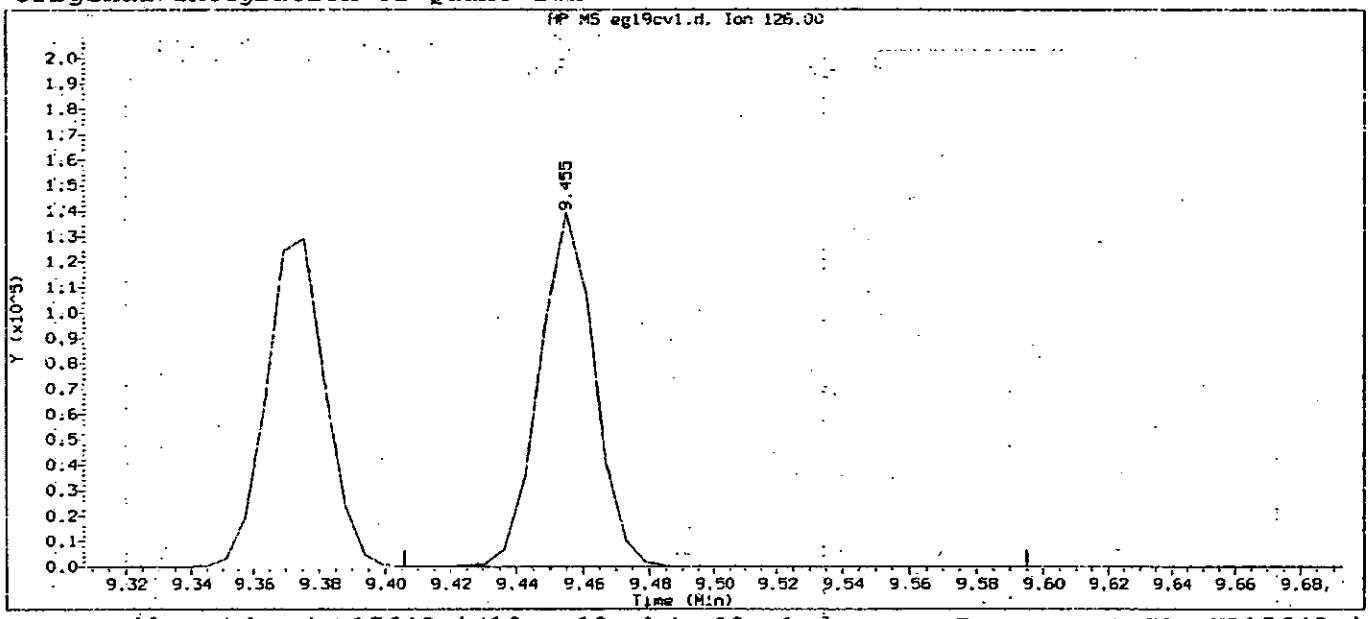
GC/MS audit/management approval: [signature] 8/20/10

PTL06 0466

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

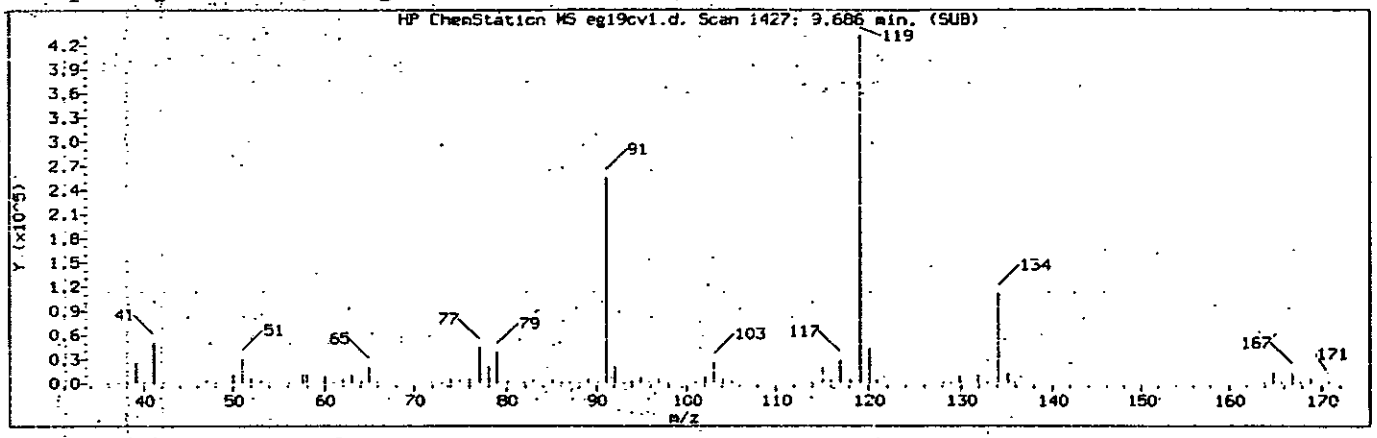
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 123
Compound Name : 2-Chlorotoluene
Scan Number : 1389
Retention Time (minutes): 9.455
Quant Ion : 126.00
Area : 161647
On-column Amount (ng) : 18.2836
Integration start scan : 1380 Integration stop scan: 1411
Y at integration start : 0 Y at integration end: 0

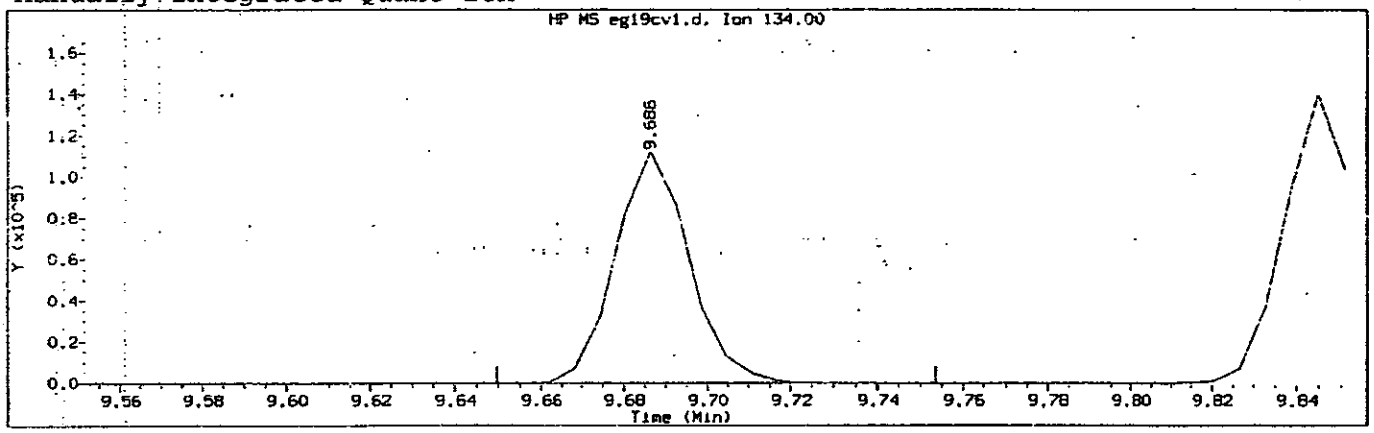
PTL06 0467

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

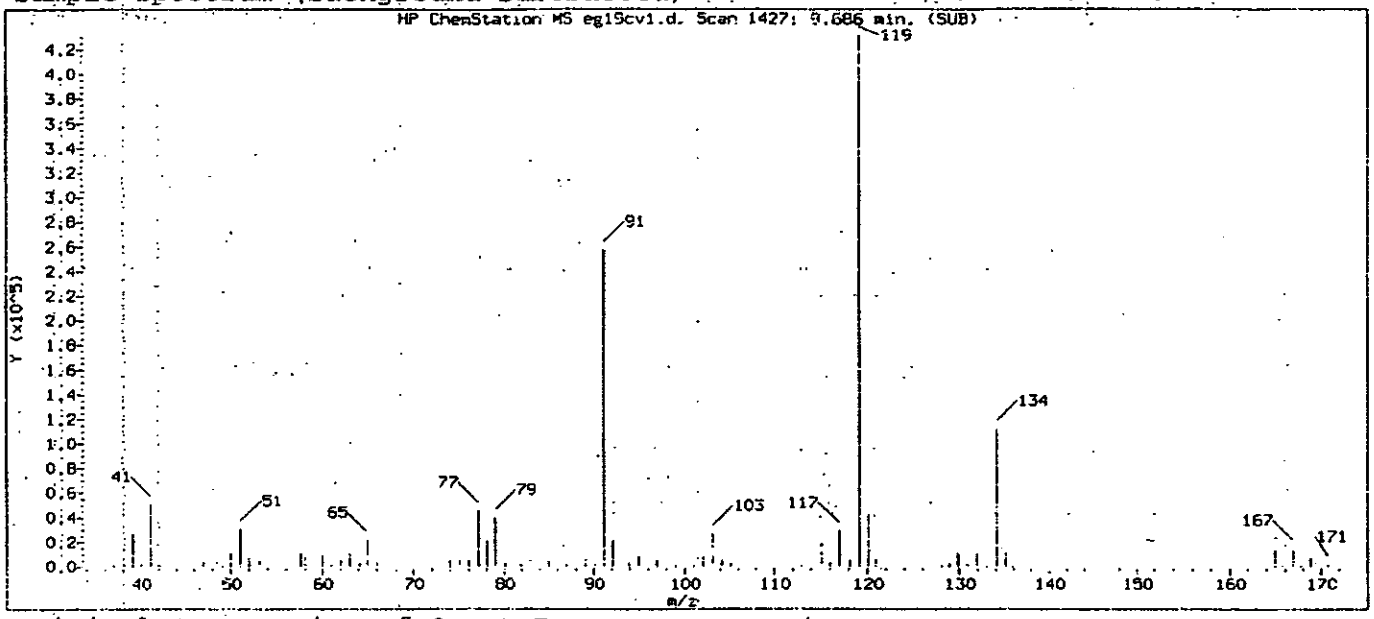
Compound Number	: 127		
Compound Name	: tert-Butylbenzene		
Scan Number	: 1427		
Retention Time (minutes)	: 9.686		
Quant Ion	: 134.00		
Area (flag)	: 137063M		
On-Column Amount (ng)	: 18.1538		
Integration start scan	: 1420	Integration stop scan:	1437
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

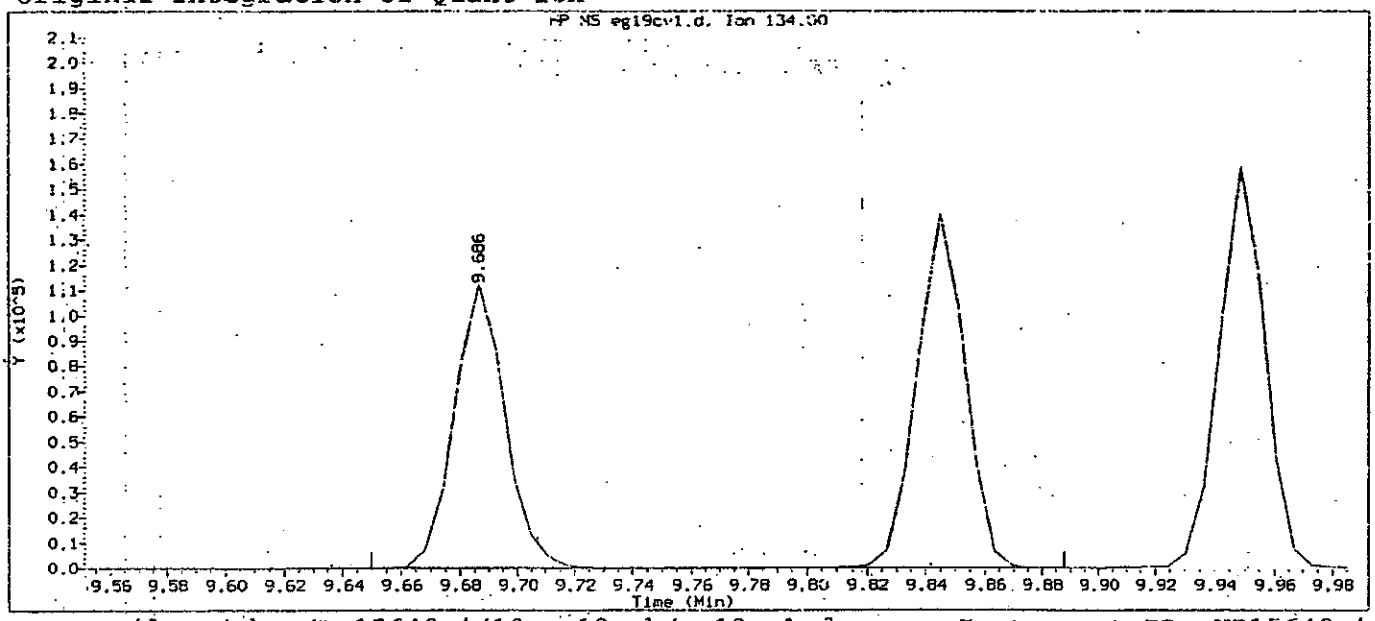
Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: [signature] 8/20/10 ~~ETL06 8468~~

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

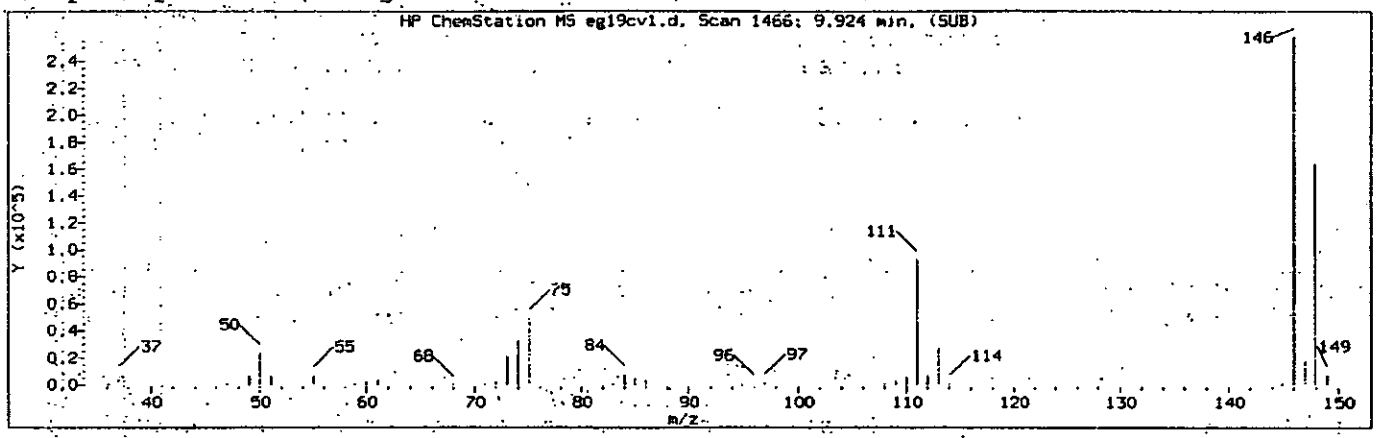
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 127
Compound Name : tert-Butylbenzene
Scan Number : 1427
Retention Time (minutes): 9.686
Quant Ion : 134.00
Area : 295662
On-column Amount (ng) : 39.1600
Integration start scan : 1420 Integration stop scan: 1459
Y at integration start : 0 Y at integration end: 0

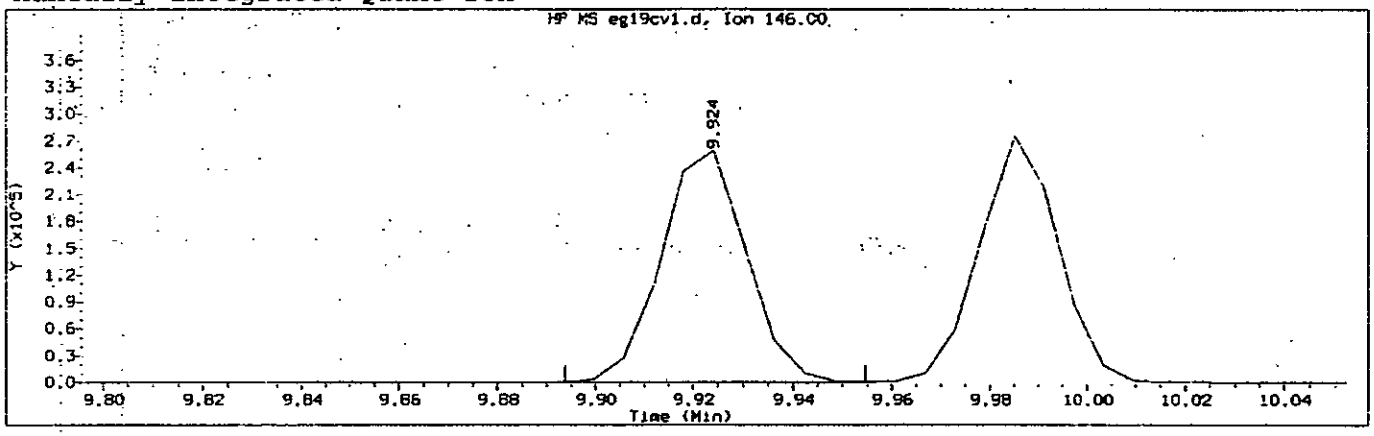
PTL96 8469

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 133	
Compound Name	: 1,3-Dichlorobenzene	
Scan Number	: 1466	
Retention Time (minutes)	: 9.924	
Quant Ion	: 146.00	
Area (flag)	: 309775M	
On-Column Amount (ng)	: 18.4479	
Integration start scan	: 1460	Integration stop scan: 1470
Y at integration start	: 0	Y at integration end: 0

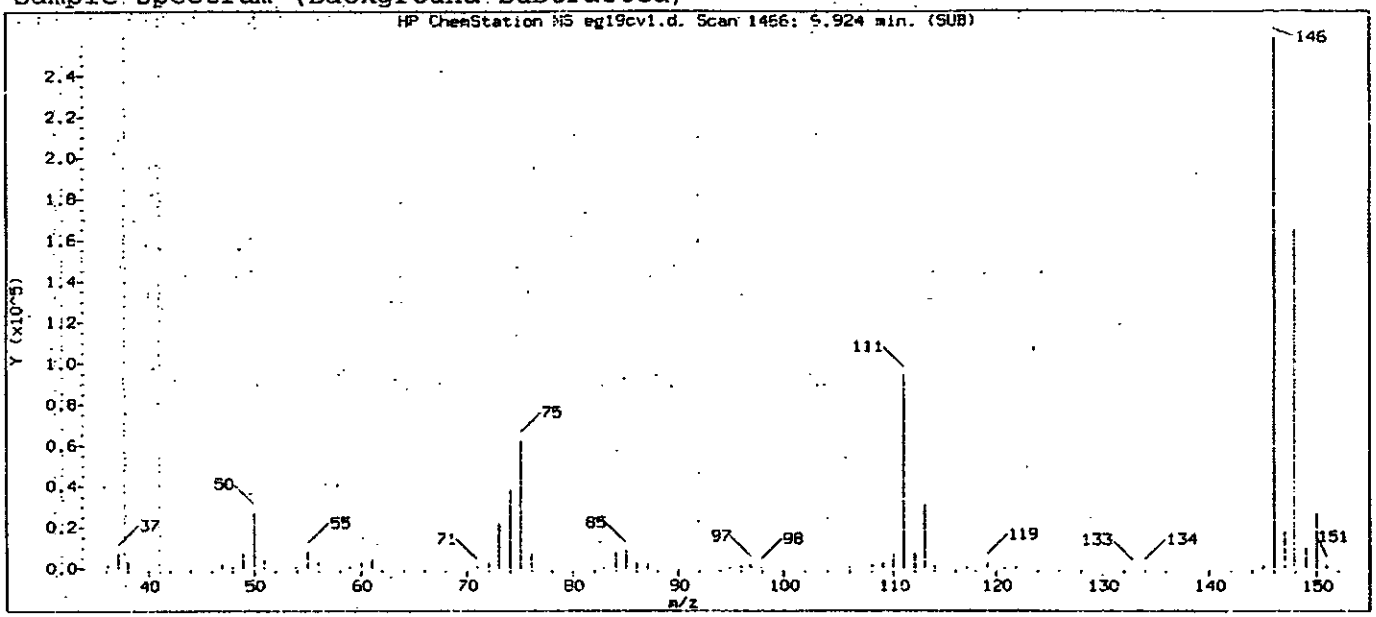
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

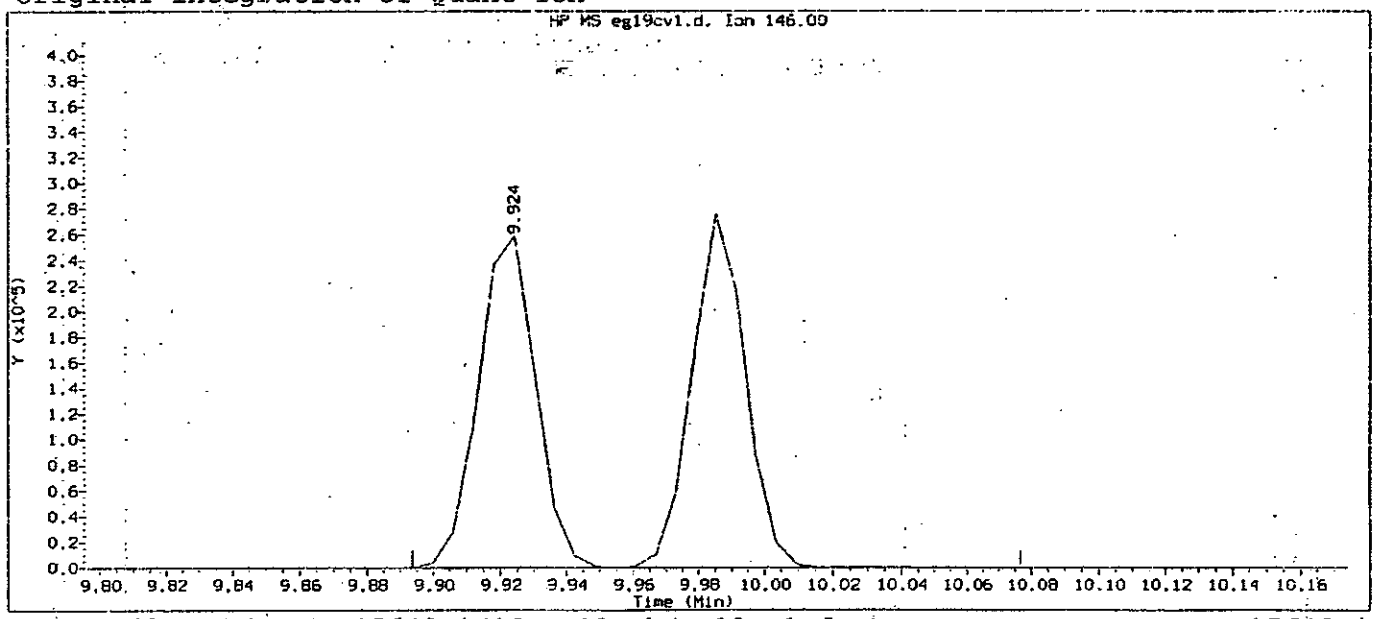
GC/MS audit/management approval [signature] 8/20/10

PTL86 8470

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

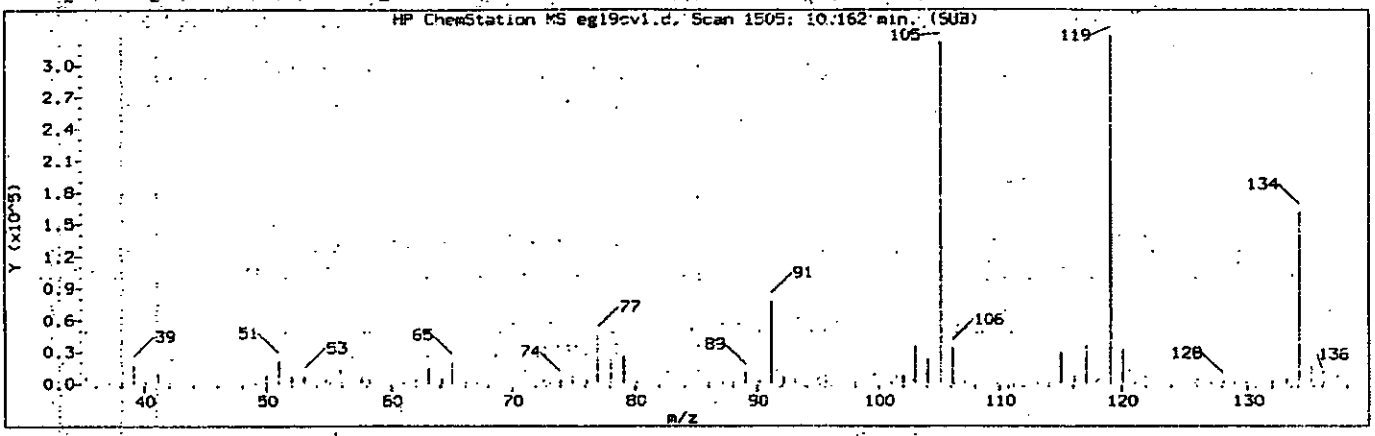
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	:	133
Compound Name	:	1,3-Dichlorobenzene
Scan Number	:	1466
Retention Time (minutes)	:	9.924
Quant Ion	:	146.00
Area	:	621170
On-column Amount (ng)	:	36.9924
Integration start scan	:	1460 Integration stop scan: 1490
Y at integration start	:	0 Y at integration end: 0

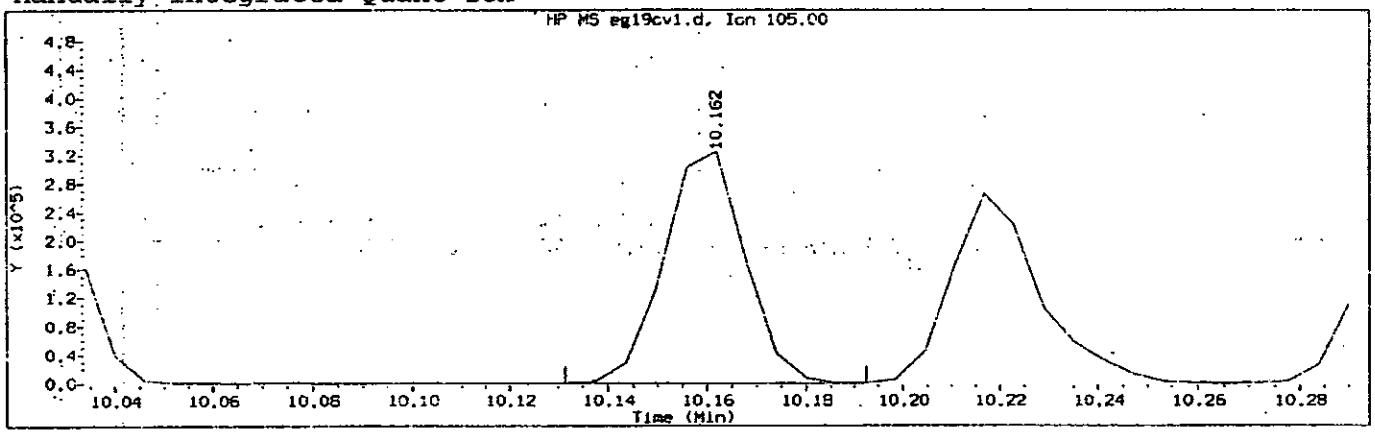
PTL86 #471

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	:	139
Compound Name	:	1,3-Diethylbenzene
Scan Number	:	1505
Retention Time (minutes)	:	10.162
Quant Ion	:	105.00
Area (flag)	:	370863M
On-Column Amount (ng)	:	18.5459
Integration start scan	:	1499 Integration stop scan: 1509
Y at integration start	:	0 Y at integration end: 0

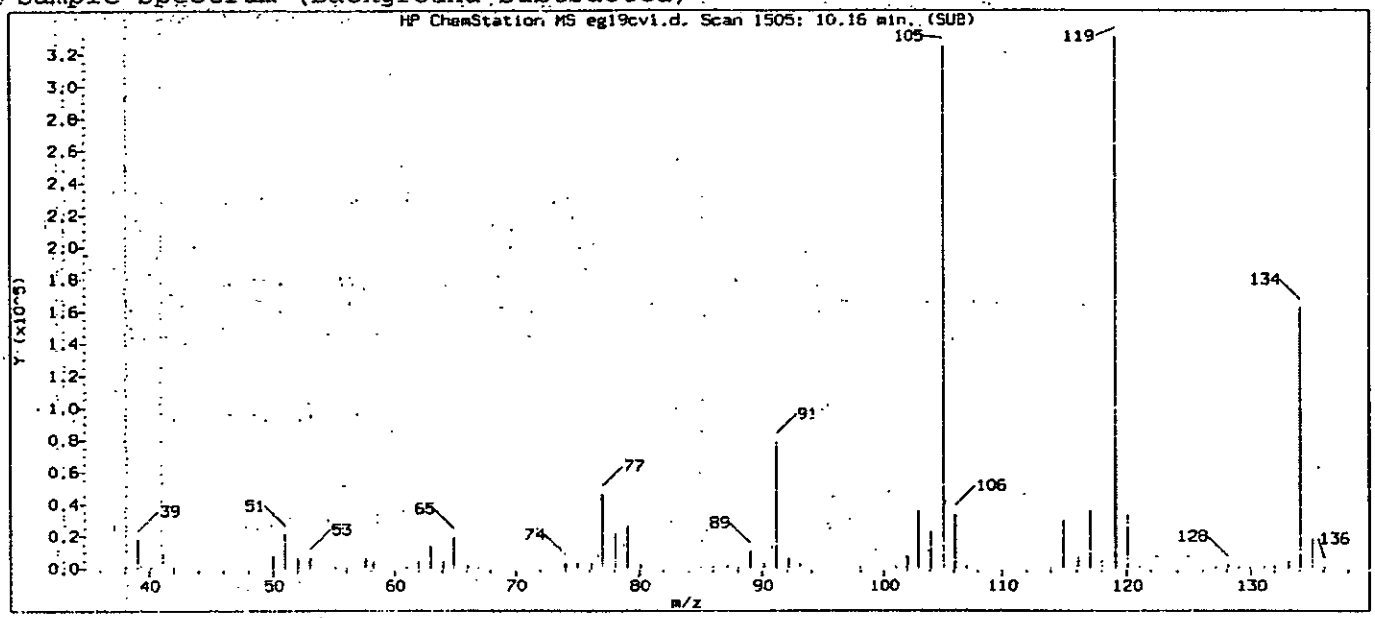
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

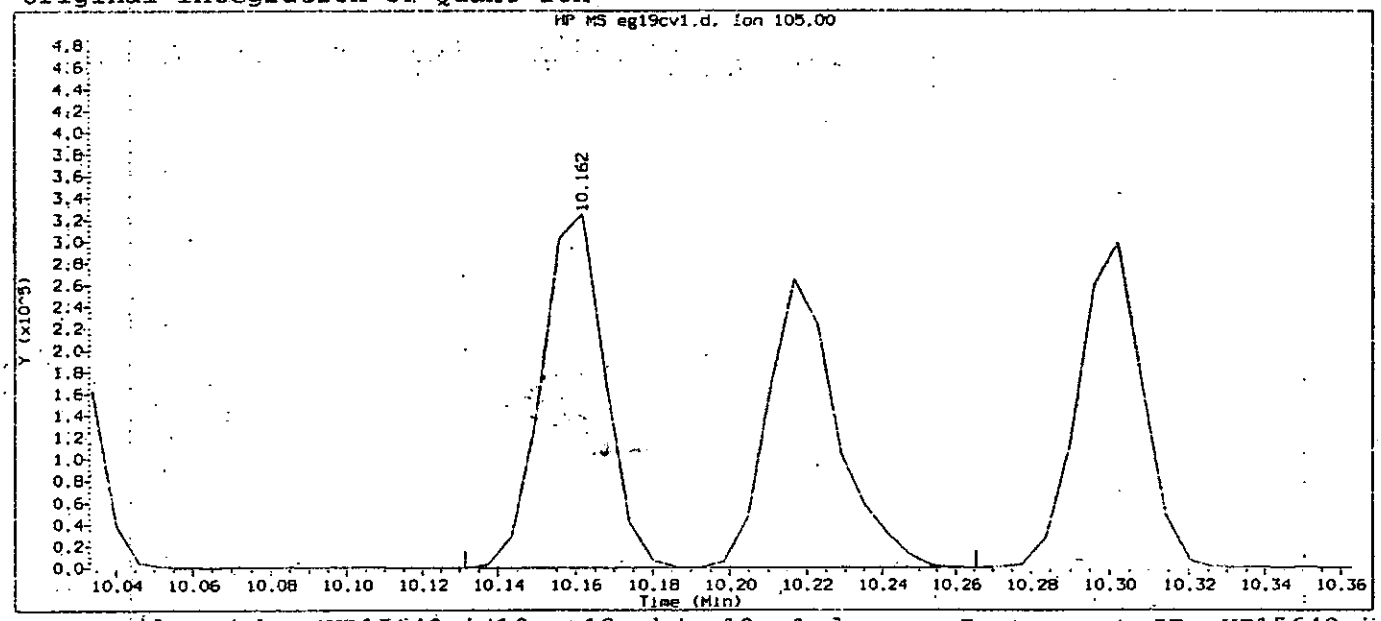
GC/MS audit/management approval: [signature] 8/20/10

PTE86 0472

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

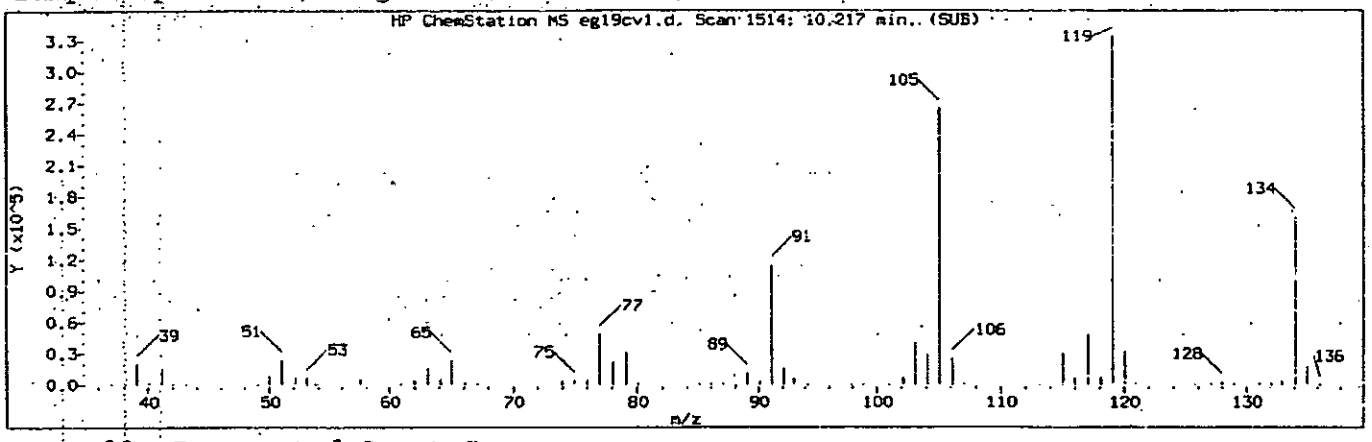
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 139
Compound Name : 1,3-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 707093
On-column Amount (ng) : 35.3599
Integration start scan : 1499 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

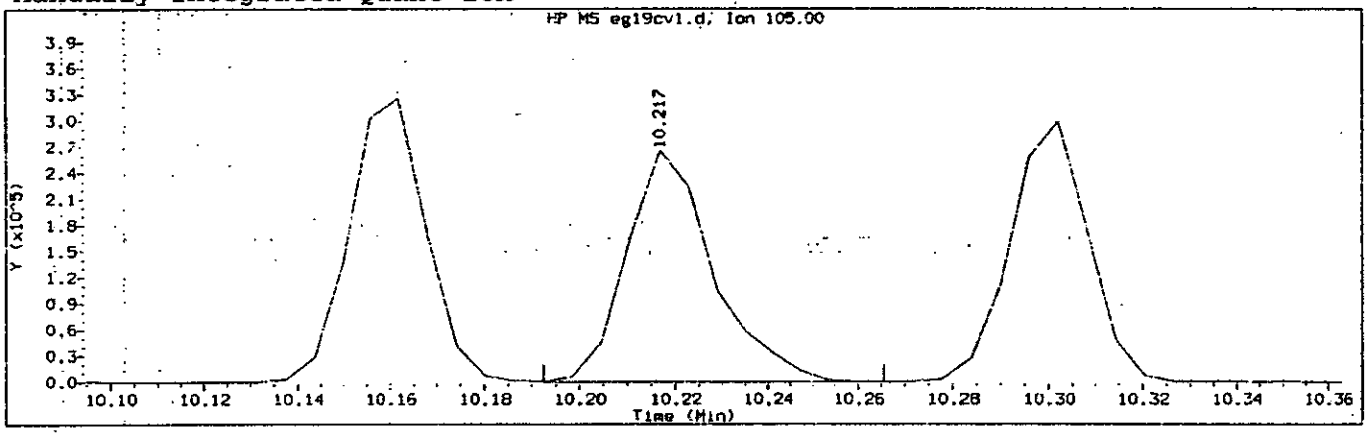
PTL06 0473

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 140		
Compound Name	: 1,4-Diethylbenzene		
Scan Number	: 1514		
Retention Time (minutes)	: 10.217		
Quant Ion	: 105.00		
Area (flag)	: 336479M		
On-Column Amount (ng)	: 18.0947		
Integration start scan	: 1509	Integration stop scan:	1521
Y at integration start	: 0	Y at integration end:	0

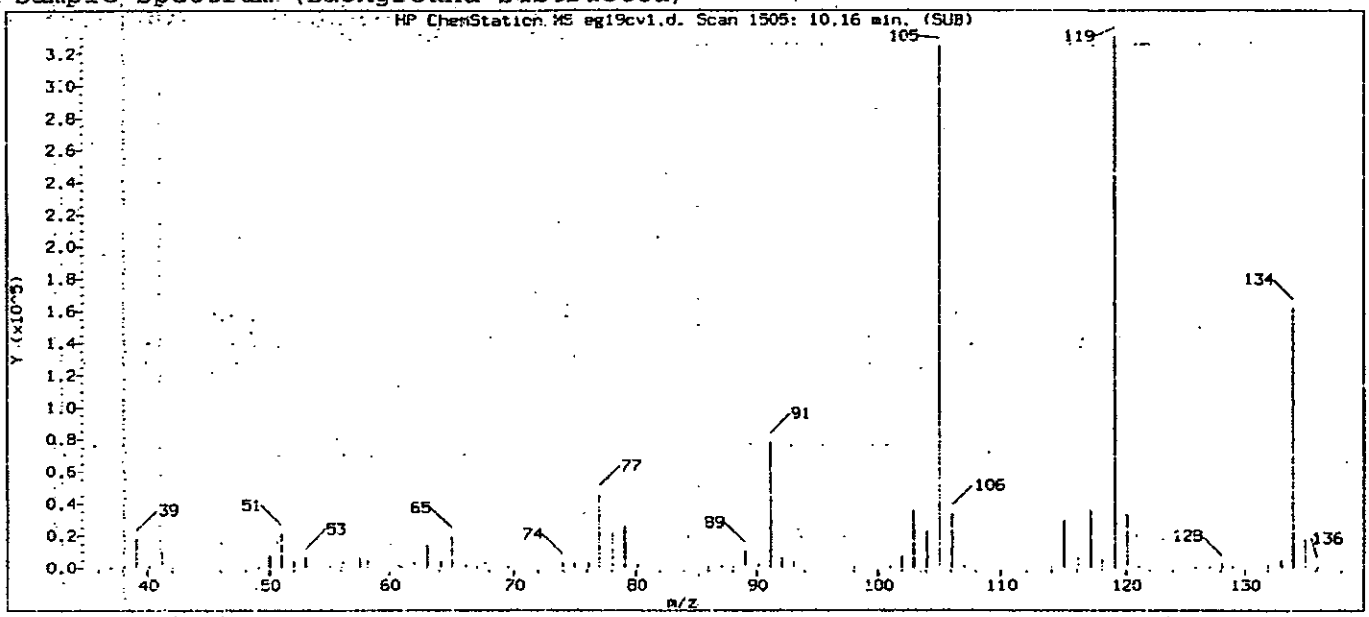
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

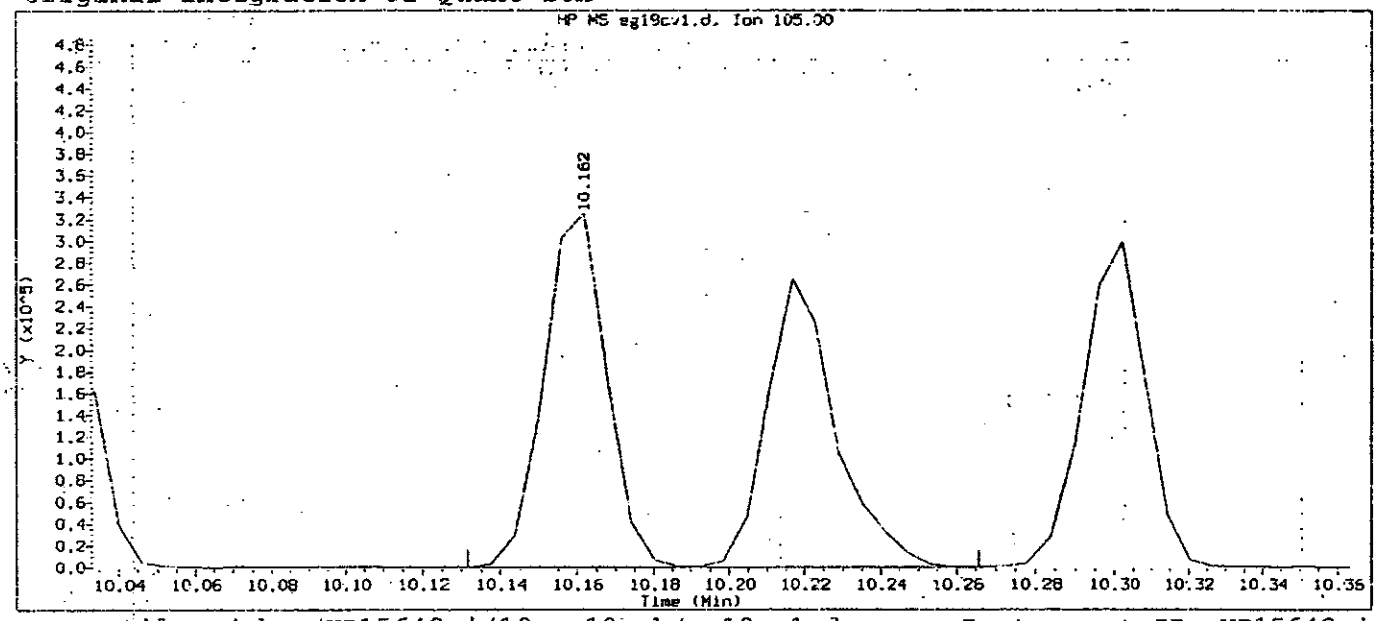
GC/MS audit/management approval: [illegible] 8/20/10

PTL86 8474

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

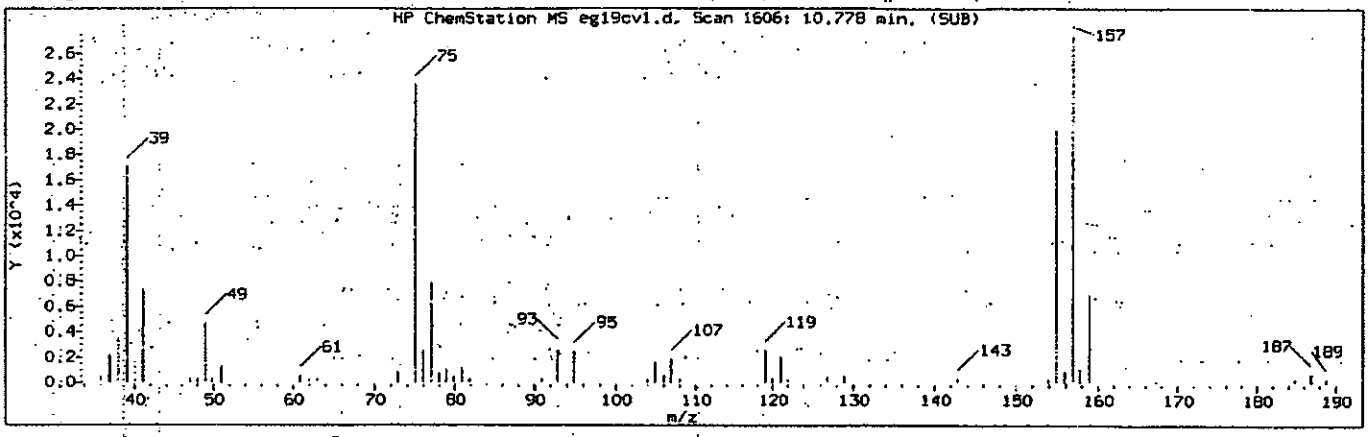
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 707093
On-column Amount (ng) : 37.4769
Integration start scan : 1499 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

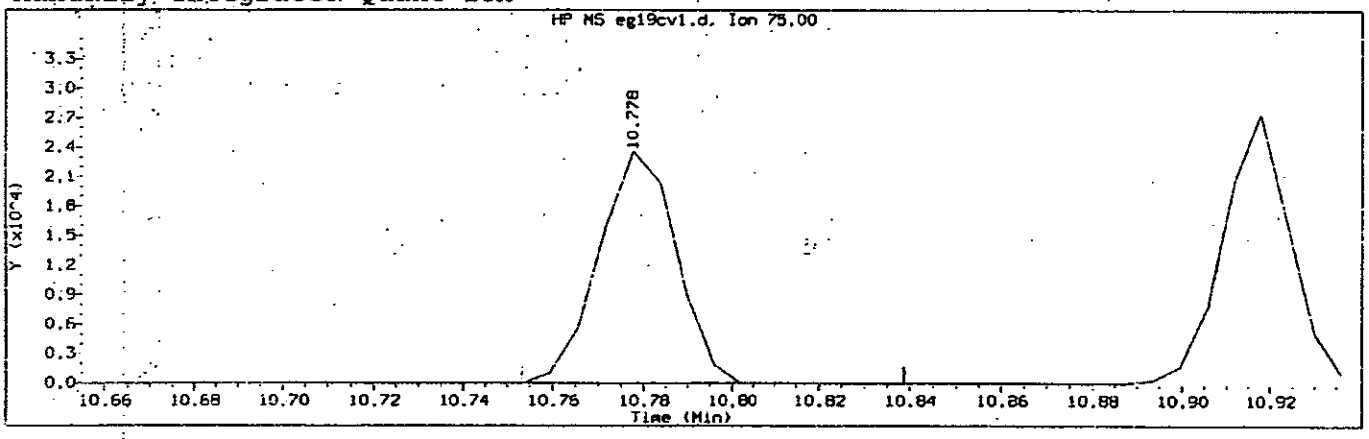
PTL06 0475

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 145		
Compound Name	: 1,2-Dibromo-3-Chloropropane		
Scan Number	: 1606		
Retention Time (minutes)	: 10.778		
Quant Ion	: 75.00		
Area (flag)	: 28167M		
On-Column Amount (ng)	: 16.6715		
Integration start scan	: 1601	Integration stop scan:	1615
Y at integration start	: 0	Y at integration end:	0

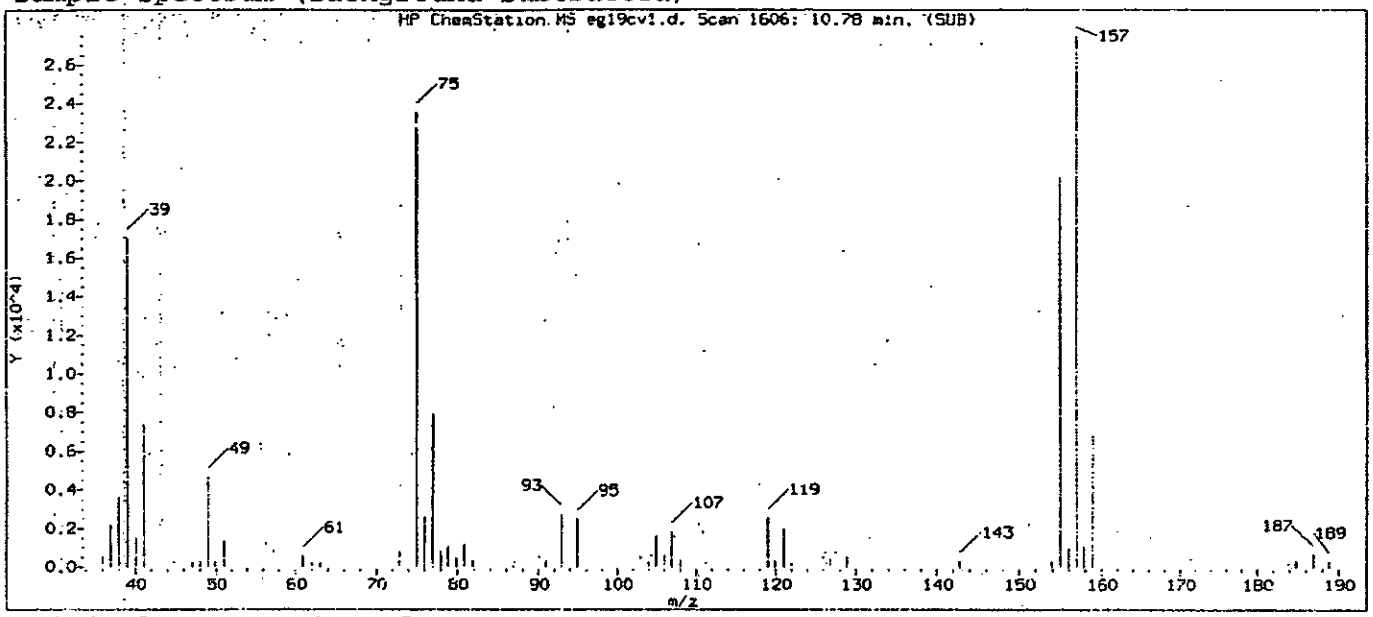
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

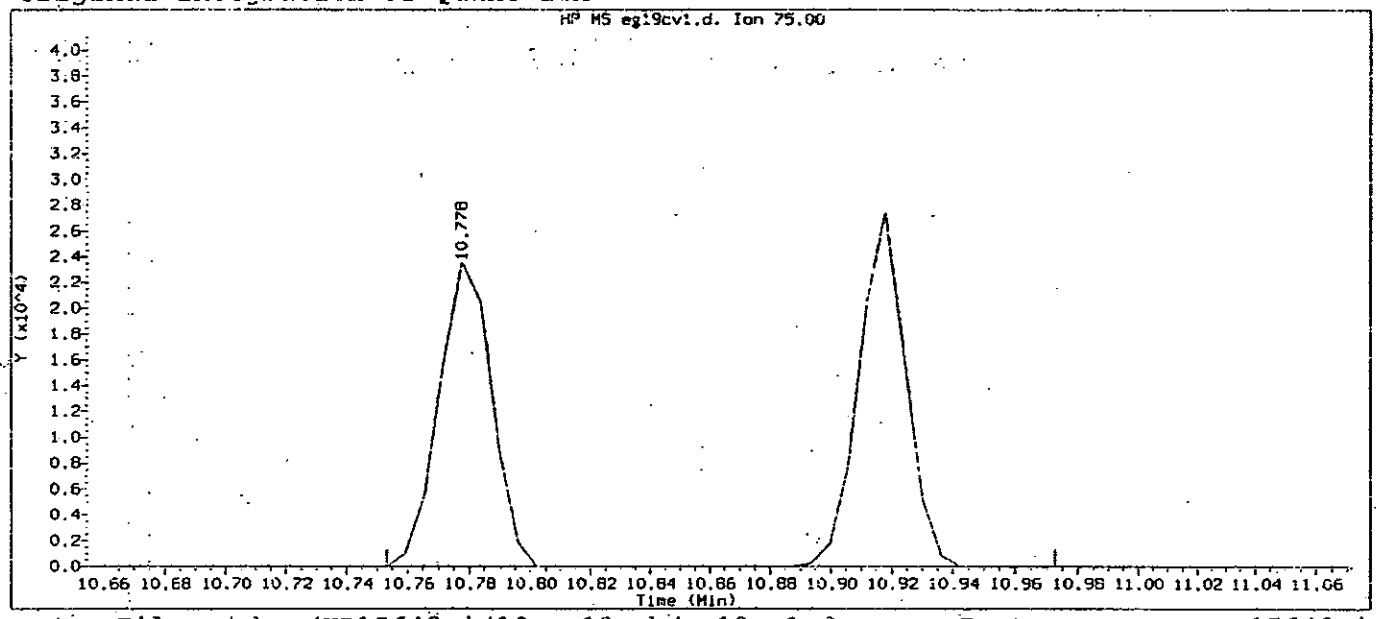
GC/MS audit/management approval: JMLong 8/20/10

PTL86 0476

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

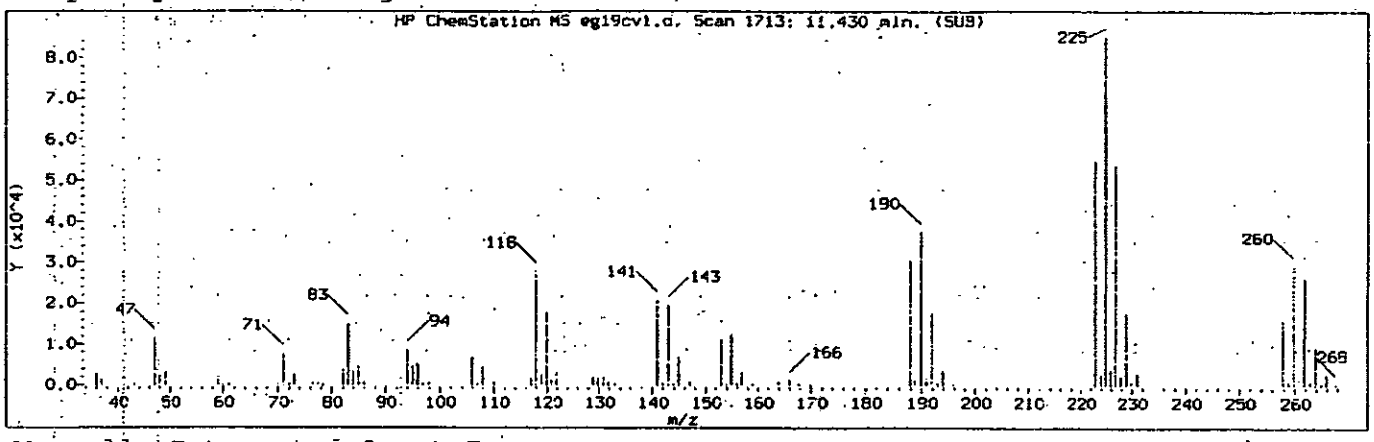
Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	:	145
Compound Name	:	1,2-Dibromo-3-Chloropropane
Scan Number	:	1606
Retention Time (minutes)	:	10.778
Quant Ion	:	75.00
Area	:	57399
On-column Amount (ng)	:	32.1398
Integration start scan	:	1601 Integration stop scan: 1637
Y at integration start	:	0 Y at integration end: 0

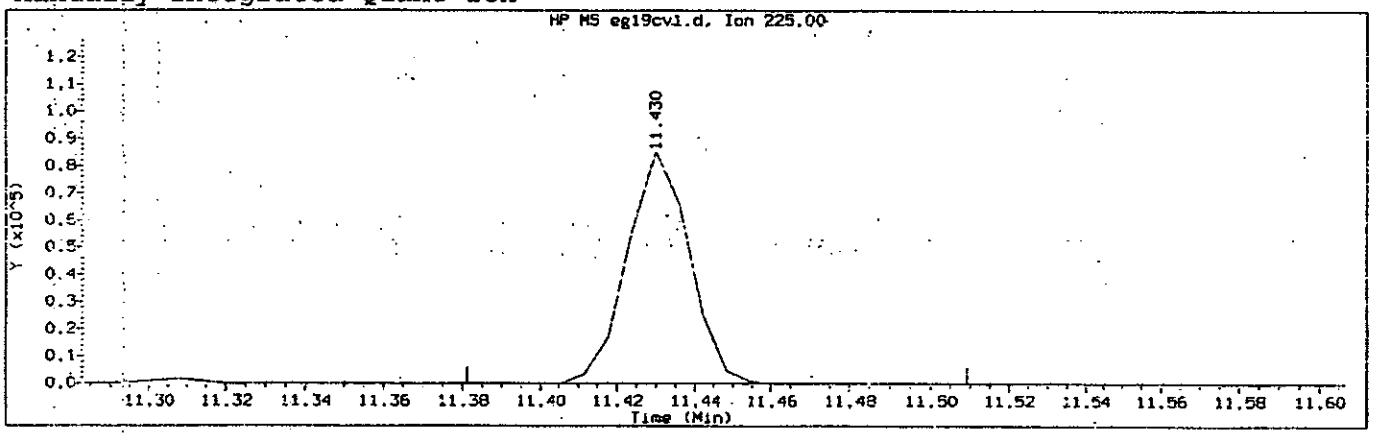
PTL86 8477

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 20-AUG-2010 09:45
Date, time and analyst ID of latest file update: 20-Aug-2010 09:46 jml01693

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number : 147
Compound Name : Hexachlorobutadiene
Scan Number : 1713
Retention Time (minutes): 11.430
Quant Ion : 225.00
Area (flag) : 94246M
On-Column Amount (ng) : 17.3182
Integration start scan : 1704 Integration stop scan: 1725
Y at integration start : 0 Y at integration end: 0

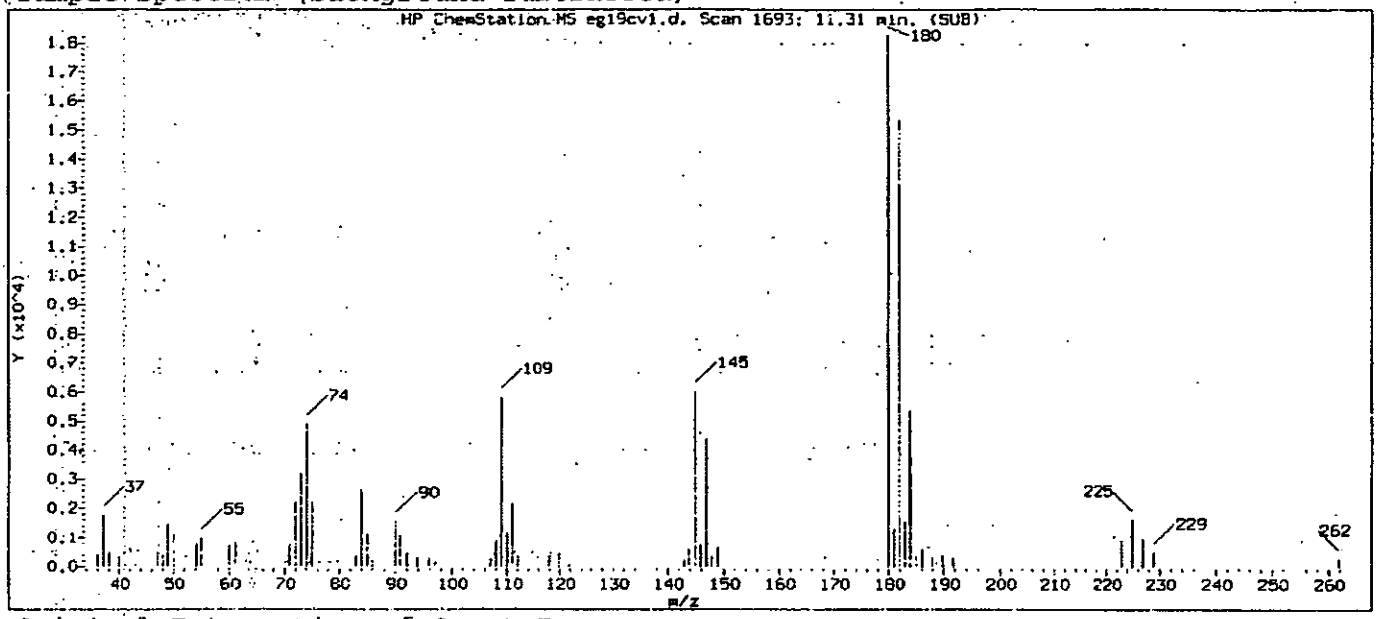
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 08/20/2010 at 10:07. Target 3.5 esignature user ID: jml01693

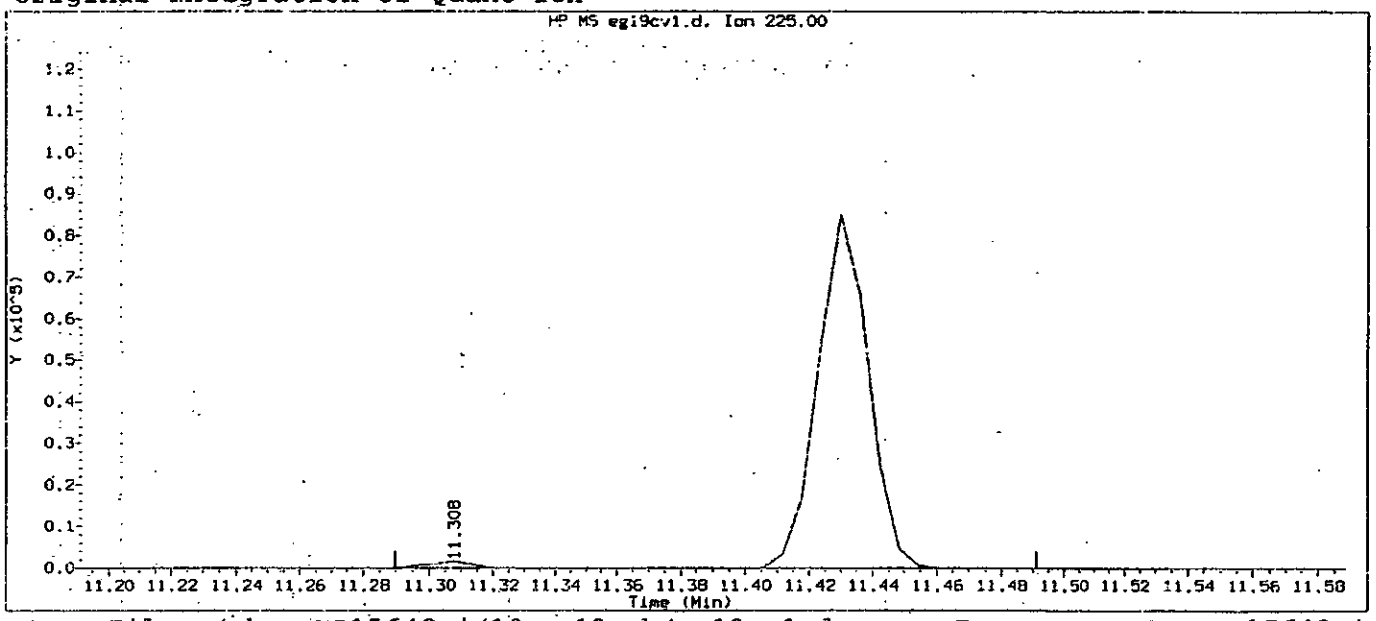
GC/MS audit/management approval: [signature] 8/20/10

PTL86 8478

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug19a.b/eg19cv1.d Instrument ID: HP15648.i
Injection date and time: 19-AUG-2010 17:07 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug19a.b/E8260W.m Sublist used: all
Calibration date and time: 19-AUG-2010 17:24
Date, time and analyst ID of latest file update: 19-Aug-2010 17:24 Automation

Sample Name: ICVE00 Lab Sample ID: ICVE00

Compound Number	: 147		
Compound Name	: Hexachlorobutadiene		
Scan Number	: 1693		
Retention Time (minutes)	: 11.308		
Quant Ion	: 225.00		
Area	: 95787		
On-column Amount (ng)	: 17.6014		
Integration start scan	: 1689	Integration stop scan:	1722
Y at integration start	: 0	Y at integration end:	0

PTL06 0479

Digitally signed by Jason M. Long on 08/20/2010 at 10:07.
Target 3.5 esignature user ID: jml01693

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP15648 Calibration Date: 08/24/10 Time: 16:10

Lab File ID: eg24c51.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4396	0.4265	48.51	50	-3	
#	Chloromethane	0.4484	0.4475	49.90	50	0	#
*	Vinyl Chloride	0.4335	0.4319	49.81	50	0	*
	Bromomethane	0.2745	0.2661	48.47	50	-3	
	Chloroethane	0.2562	0.2549	49.76	50	0	
	Trichlorofluoromethane	0.4747	0.4604	48.50	50	-3	
	Ethyl Ether	0.2438	0.2300	47.17	50	-6	
	Acrolein	2.8089	2.8929	514.95	500	3	
*	1,1-Dichloroethene	0.2833	0.2815	49.69	50	-1	*
	Freon 113	0.2851	0.2976	52.20	50	4	
	Acetone	0.0900	0.1230	136.62	100	37	
	Methyl Iodide	0.4669	0.4654	49.84	50	0	
	Carbon Disulfide	0.7821	0.8069	51.58	50	3	
	Allyl Chloride	0.4560	0.4455	48.85	50	-2	
	Methyl Acetate	0.2402	0.2703	56.26	50	13	
	Methylene Chloride	0.2962	0.2765	46.66	50	-7	
	t-Butyl Alcohol	1.1985	1.2828	267.59	250	7	
	Acrylonitrile	0.1349	0.1651	61.19	50	22	
	trans-1,2-Dichloroethene	0.2948	0.2953	50.08	50	0	
	Methyl Tertiary Butyl Ether	0.8140	0.8309	51.04	50	2	
	n-Hexane	0.4579	0.4707	51.39	50	3	
	1,2-Dichloroethene (total)	0.3031	0.3007	99.23	100	-1	
#	1,1-Dichloroethane	0.5277	0.5301	50.23	50	0	#
	di-Isopropyl Ether	0.8890	0.8947	50.32	50	1	
	2-Chloro-1,3-Butadiene	0.4105	0.4310	52.49	50	5	
	Ethyl t-Butyl Ether	0.8299	0.8330	50.19	50	0	
	cis-1,2-Dichloroethene	0.3113	0.3061	49.15	50	-2	
	2-Butanone	0.1511	0.2089	138.25	100	38	
	2,2-Dichloropropane	0.3935	0.4054	51.51	50	3	
	Propionitrile	1.9747	1.9657	248.86	250	0	
	Methacrylonitrile	0.1429	0.1626	149.41	125	20	
	Bromochloromethane	0.1479	0.1353	45.76	50	-8	
	Tetrahydrofuran	1.8328	1.8862	102.91	100	3	
*	Chloroform	0.4673	0.4632	49.56	50	-1	*
	1,1,1-Trichloroethane	0.4501	0.4354	48.37	50	-3	
	Cyclohexane	0.5526	0.5841	52.85	50	6	

PTL06 0480

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: HP15648 Calibration Date: 08/24/10 Time: 16:10

Lab File ID: eg24c51.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	1,1-Dichloropropene	0.4254	0.4345	51.07	50	2	
	Carbon Tetrachloride	0.3267	0.3331	50.98	50	2	
	Isobutyl Alcohol	0.4054	0.4092	630.88	625	1	
	Benzene	1.2165	1.2076	49.63	50	-1	
	1,2-Dichloroethane	0.3482	0.3499	50.24	50	0	
	t-Amyl Methyl Ether	0.8054	0.8128	50.46	50	1	
	n-Heptane	0.4556	0.4559	50.03	50	0	
	n-Butanol	0.3584	0.3351	1168.51	1250	-7	
	Trichloroethene	0.3128	0.3103	49.61	50	-1	
*	1,2-Dichloropropane	0.3077	0.3004	48.82	50	-2	*
	Methylcyclohexane	0.5793	0.5839	50.40	50	1	
	Methyl Methacrylate	0.2580	0.2782	53.89	50	8	
	Dibromomethane	0.1752	0.1713	48.87	50	-2	
	1,4-Dioxane	0.1160	0.0997	537.13	625	-14	
	Bromodichloromethane	0.3295	0.3195	48.49	50	-3	
	2-Nitropropane	0.0633	0.0711	119.93	100	20	
	2-Chloroethyl Vinyl Ether	0.2103	0.2170	51.61	50	3	
	cis-1,3-Dichloropropene	0.4370	0.4085	46.75	50	-7	
	4-Methyl-2-Pentanone	0.3355	0.4407	131.35	100	31	
*	Toluene	1.0963	1.0988	50.11	50	0	*
	trans-1,3-Dichloropropene	0.5606	0.5390	48.07	50	-4	
	Ethyl Methacrylate	0.4637	0.4956	53.44	50	7	
	1,1,2-Trichloroethane	0.3540	0.3524	49.78	50	0	
	Tetrachloroethene	0.5097	0.4968	48.73	50	-3	
	1,3-Dichloropropane	0.6252	0.6164	49.30	50	-1	
	2-Hexanone	0.3308	0.4599	146.79	100	47	
	Dibromochloromethane	0.3452	0.3341	48.39	50	-3	
	1,2-Dibromoethane	0.3600	0.3592	49.89	50	0	
#	Chlorobenzene	1.1868	1.1760	49.54	50	-1	#
	1,1,1,2-Tetrachloroethane	0.3535	0.3518	49.77	50	0	
*	Ethylbenzene	2.1007	2.1344	50.80	50	2	*
	m+p-Xylene	0.8254	0.8340	101.05	100	1	
	Xylene (Total)	0.8165	0.8241	151.38	150	1	
	o-Xylene	0.7988	0.8041	50.33	50	1	
	Styrene	1.2613	1.2683	50.28	50	1	
#	Bromoform	0.2531	0.2503	49.44	50	-1	#

PTL86 0481

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: HP15648 Calibration Date: 08/24/10 Time: 16:10

Lab File ID: eg24c51.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Isopropylbenzene	2.1027	2.1780	51.79	50	4
Cyclohexanone	0.3937	0.3924	622.89	625	0
# 1,1,2,2-Tetrachloroethane	0.9636	1.0475	54.35	50	9 #
trans-1,4-Dichloro-2-Butene	0.2888	0.3156	136.59	125	9
Bromobenzene	0.8850	0.8615	48.67	50	-3
1,2,3-Trichloropropane	0.2842	0.3154	55.48	50	11
n-Propylbenzene	4.5351	4.6947	51.76	50	4
2-Chlorotoluene	0.9043	0.9074	50.17	50	0
1,3,5-Trimethylbenzene	3.0973	3.1739	51.24	50	2
4-Chlorotoluene	0.9164	0.8915	48.64	50	-3
tert-Butylbenzene	0.7705	0.7790	50.55	50	1
Pentachloroethane	0.4611	0.4495	48.74	50	-3
1,2,4-Trimethylbenzene	3.2111	3.2838	51.13	50	2
sec-Butylbenzene	4.0696	4.2524	52.25	50	4
p-Isopropyltoluene	3.5382	3.6449	51.51	50	3
1,3-Dichlorobenzene	1.7137	1.6897	49.30	50	-1
1,4-Dichlorobenzene	1.7336	1.6824	48.52	50	-3
1,2,3-Trimethylbenzene	3.1451	3.0902	49.13	50	-2
Benzyl Chloride	1.6493	1.7038	51.84	50	4
1,3-Diethylbenzene	2.0408	2.0435	50.06	50	0
1,4-Diethylbenzene	1.8978	1.8745	49.39	50	-1
n-Butylbenzene	1.7706	1.8005	50.84	50	2
1,2-Dichlorobenzene	1.6393	1.5976	48.73	50	-3
1,2-Diethylbenzene	1.9026	1.8703	49.15	50	-2
1,2-Dibromo-3-Chloropropane	0.1823	0.2230	62.29	50	25
1,2,4-Trichlorobenzene	1.1934	1.1820	49.52	50	-1
Hexachlorobutadiene	0.5554	0.5326	47.95	50	-4
Naphthalene	3.4407	3.8280	55.63	50	11
1,2,3-Trichlorobenzene	1.1074	1.1019	49.75	50	-1
2-Methylnaphthalene	1.8178	1.9906	54.75	50	10
Dibromofluoromethane	0.2236	0.2230	49.87	50	0
Dibromofluoromethane(mz111)	0.2295	0.2277	49.62	50	-1
1,2-Dichloroethane-d4	0.0594	0.0605	50.96	50	2
1,2-Dichloroethane-d4(mz104)	0.0382	0.0375	49.08	50	-2
Toluene-d8(mz100)	0.8943	0.9139	51.10	50	2

PTL86 8482

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: HP15648 Calibration Date: 08/24/10 Time: 16:10

Lab File ID: eg24c51.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
4-Bromofluorobenzene(mz174)	0.4217	0.4160	49.32	50	-1
Toluene-d8	1.3827	1.4061	50.85	50	2
4-Bromofluorobenzene	0.4905	0.4960	50.56	50	1

Average %Drift 5

PTL06 0483

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:

/chem/HP15648.i/10aug19a.b/eg19i07.d
/chem/HP15648.i/10aug19a.b/eg19i06.d
/chem/HP15648.i/10aug19a.b/eg19i05.d
/chem/HP15648.i/10aug19a.b/eg19i04.d
/chem/HP15648.i/10aug19a.b/eg19i03.d
/chem/HP15648.i/10aug19a.b/eg19i02.d

File /chem/HP15648.i/10aug19a.b/eg19i04.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/HP15648.i/10aug24b.b/eg24c51.d

RT Summary

Internal Standard Name	File ID: eg24c51.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	2.767	2.755	Yes
Fluorobenzene	5.047	5.047	Yes
Chlorobenzene-d5	8.126	8.126	Yes
1,4-Dichlorobenzene-d4	9.967	9.973	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

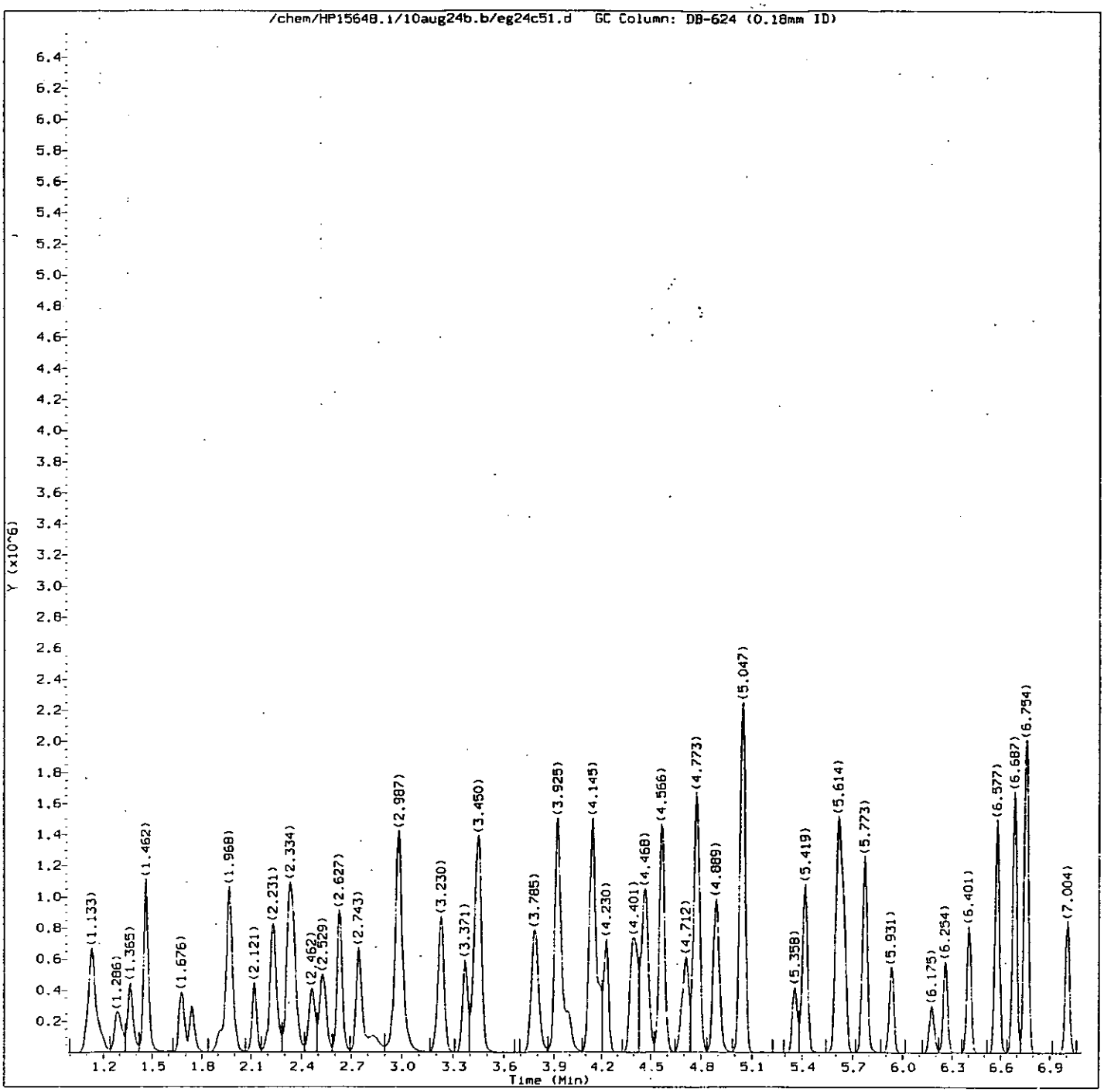
Area Summary

Internal Standard Name	File ID: eg24c51.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	196455	147036	73518	294072	Yes
Fluorobenzene	1257097	1118204	559102	2236408	Yes
Chlorobenzene-d5	881375	801714	400857	1603428	Yes
1,4-Dichlorobenzene-d4	484372	435125	217562	870250	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

PTL86 8484

Comments: _____



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d
Injection date and time: 24-AUG-2010 16:10

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:36

Sublist used: 8260WI-F

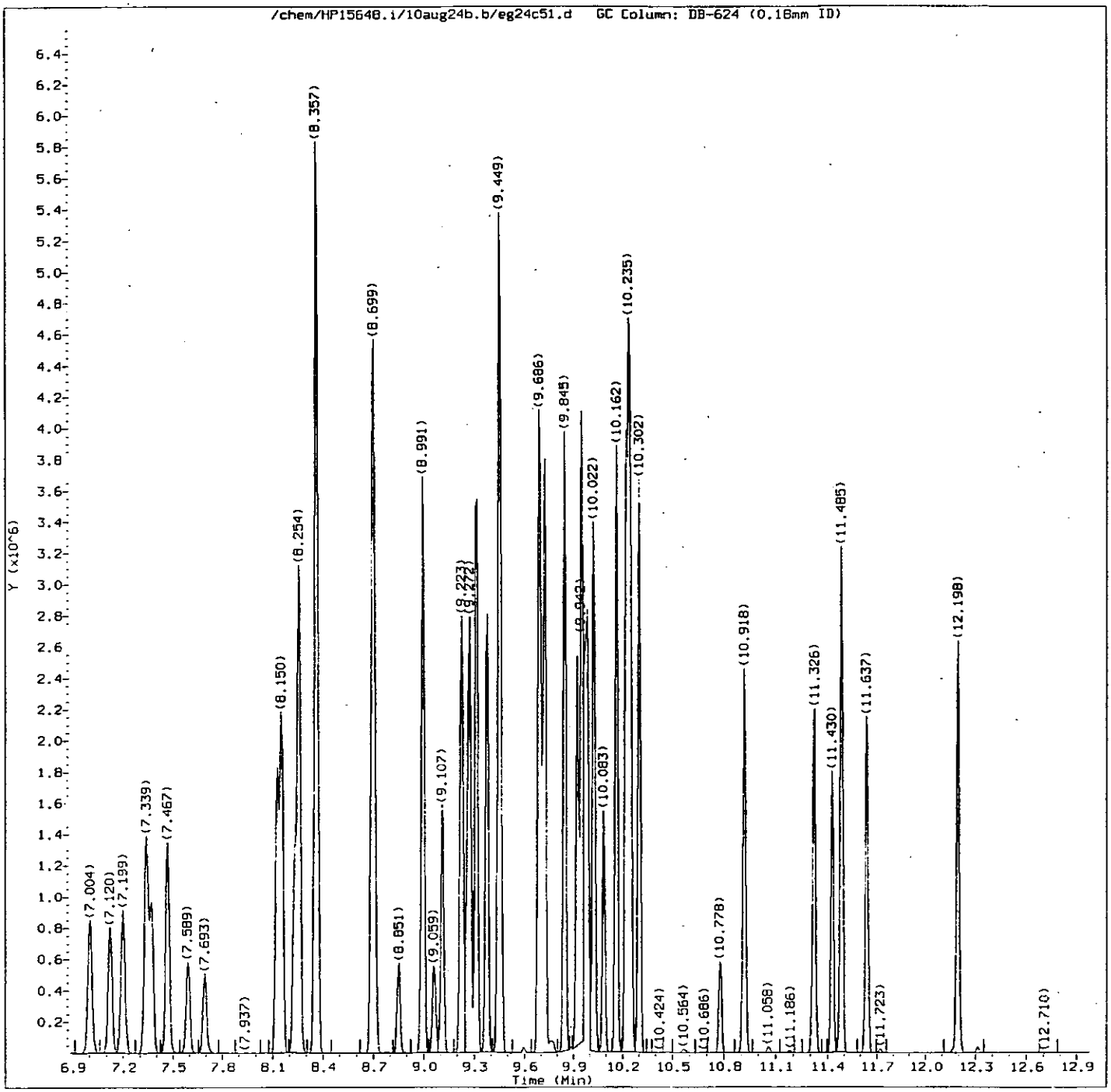
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050

Lab Sample ID: VSTD050

PTL86 0485

Digitally signed by Sara E. Johnson
on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d
Injection date and time: 24-AUG-2010 16:10

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:36

Sublist used: 8260WI-F

Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050

Lab Sample ID: VSTD050

PTL06 0486

Digitally signed by Sara E. Johnson
on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.286	85	536139	48.506
2) Chloromethane	(1)	1.365	50	562498	49.896
4) Vinyl Chloride	(1)	1.456	62	542883	49.814
5) Bromomethane	(1)	1.676	94	334497	48.466
6) Chloroethane	(1)	1.737	64	320492	49.760
8) Trichlorofluoromethane	(1)	1.962	101	578824	48.497
12) Ethyl Ether	(1)	2.121	59	289098	47.169
14) Acrolein	(4)	2.231	56	1136668	514.953
15) 1,1-Dichloroethene	(1)	2.328	96	353871	49.688
17) Freon 113	(1)	2.346	101	374156	52.200
16) Acetone	(1)	2.353	43	309326M	136.617
18) Methyl Iodide	(1)	2.462	142	585042	49.836
21) Carbon Disulfide	(1)	2.529	76	1014300	51.584
22) Allyl Chloride	(1)	2.627	41	560064	48.849
23) Methyl Acetate	(1)	2.639	43	339746	56.257
24) Methylene Chloride	(1)	2.743	84	347542	46.660
25)*t-Butyl Alcohol-d10	(4)	2.767	65	196455	250.000
26) t-Butyl Alcohol	(4)	2.834	59	252013M	267.589
27) Acrylonitrile	(1)	2.956	53	207558	61.193
28) trans-1,2-Dichloroethene	(1)	2.980	96	371243	50.080
29) Methyl Tertiary Butyl Ether	(1)	2.987	73	1044536M	51.040
31) n-Hexane	(1)	3.230	57	591709	51.393
33) 1,1-Dichloroethane	(1)	3.371	63	666325	50.225
34) di-Isopropyl Ether	(1)	3.438	45	1124732	50.320
35) 2-Chloro-1,3-Butadiene	(1)	3.456	53	541788	52.490
36) 1,2-Dichloroethene (total)	(1)		96	755984	99.234
37) Ethyl t-Butyl Ether	(1)	3.785	59	1047180M	50.188
39) cis-1,2-Dichloroethene	(1)	3.919	96	384741	49.154
40) 2-Butanone	(1)	3.931	43	525228	138.251
41) 2,2-Dichloropropane	(1)	3.931	77	509625	51.509
42) Propionitrile	(4)	3.992	54	386166	248.863
44) Methacrylonitrile	(1)	4.139	67	511132	149.408
45) Bromochloromethane	(1)	4.151	128	170140	45.758
46) Tetrahydrofuran	(4)	4.194	71	148223	102.912
47) Chloroform	(1)	4.230	83	582267	49.556
50)$Dibromofluoromethane	(1)	4.389	113	280293	49.865
51)$Dibromofluoromethane(mz111)	(1)	4.389	111	286249	49.618
52) 1,1,1-Trichloroethane	(1)	4.413	97	547371	48.366
53) Cyclohexane	(1)	4.468	56	734290	52.850

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL86 0487

Digitally signed by Sara E. Johnson
on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
55) 1,1-Dichloropropene	(1)	4.566	75	546183	51.073
56) Carbon Tetrachloride	(1)	4.572	117	418772	50.984
58) Isobutyl Alcohol	(4)	4.694	41	200961	630.880
59)$1,2-Dichloroethane-d4	(1)	4.712	102	76050	50.955
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.718	104	47172	49.085
63) Benzene	(1)	4.773	78	1518122	49.634
65) 1,2-Dichloroethane	(1)	4.791	62	439803	50.244
67) t-Amyl Methyl Ether	(1)	4.889	73	1021723	50.460
68) n-Heptane	(1)	5.041	43	573050	50.031
69)*Fluorobenzene	(1)	5.047	96	1257097	50.000
71) n-Butanol	(4)	5.358	56	329117	1168.511
72) Trichloroethene	(1)	5.419	95	390101	49.610
74) Methylcyclohexane	(1)	5.614	83	734044	50.400
76) 1,2-Dichloropropane	(1)	5.645	63	377654	48.820
78) Dibromomethane	(1)	5.766	93	215322	48.866
79) Methyl Methacrylate	(1)	5.773	69	349663	53.894
80) 1,4-Dioxane	(4)	5.785	88	48974	537.134
81) Bromodichloromethane	(1)	5.937	83	401686	48.492
82) 2-Nitropropane	(1)	6.175	41	178656	119.928
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	272808	51.606
87) cis-1,3-Dichloropropene	(1)	6.401	75	513551	46.746
88) 4-Methyl-2-Pentanone	(1)	6.577	43	1107929	131.354
90)$Toluene-d8	(2)	6.687	98	1239282	50.846
89)$Toluene-d8(mz100)	(2)	6.687	100	805503	51.098
91) Toluene	(2)	6.754	92	968478	50.113
92) trans-1,3-Dichloropropene	(2)	7.004	75	475017	48.072
93) Ethyl Methacrylate	(2)	7.120	69	436766	53.439
94) 1,1,2-Trichloroethane	(2)	7.199	97	310632	49.778
96) Tetrachloroethene	(2)	7.339	166	437854	48.729
97) 1,3-Dichloropropane	(2)	7.370	76	543320	49.298
98) 2-Hexanone	(2)	7.467	43	810720	146.789
100) Dibromochloromethane	(2)	7.589	129	294482	48.395
101) 1,2-Dibromoethane	(2)	7.693	107	316625	49.894
103)*Chlorobenzene-d5	(2)	8.126	117	881375	50.000
104) Chlorobenzene	(2)	8.150	112	1036459	49.544
105) Xylene (Total)	(2)		106	2178921	151.379
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	310093	49.768
107) Ethylbenzene	(2)	8.254	91	1881197	50.803
108) m+p-Xylene	(2)	8.357	106	1470184	101.048

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

PTL06 0488

Digitally signed by Sara E. Johnson
on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

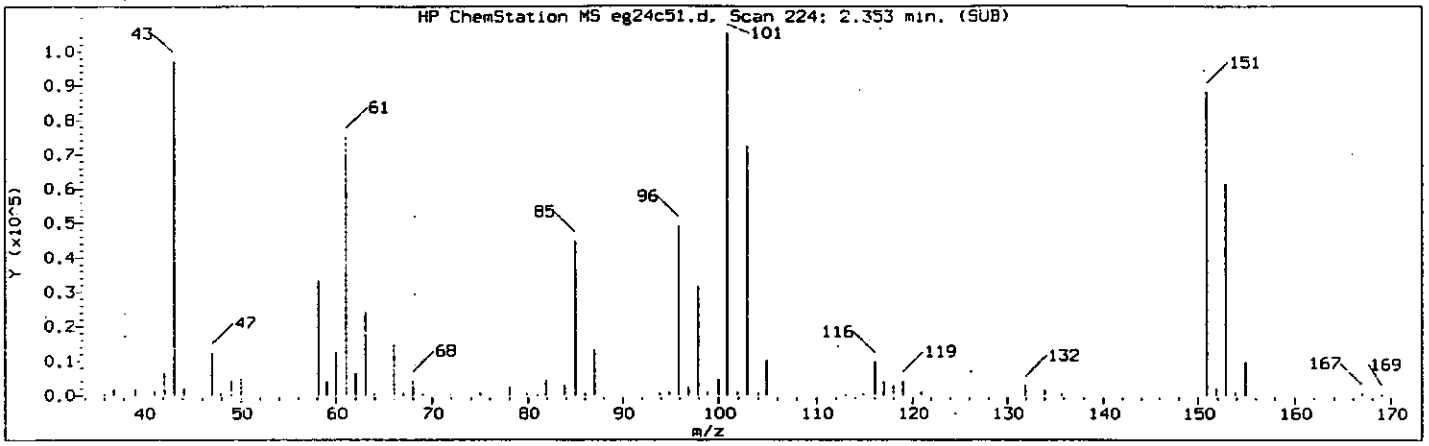
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
110) o-Xylene	(2)	8.693	106	708737	50.331
111) Styrene	(2)	8.705	104	1117840	50.276
112) Bromoform	(2)	8.851	173	220566	49.440
113) Isopropylbenzene	(2)	8.991	105	1919609	51.790
115) Cyclohexanone	(4)	9.059	55	192722	622.892
116)$4-Bromofluorobenzene	(2)	9.107	95	437168	50.558
117)$4-Bromofluorobenzene(mz174)	(2)	9.113	174	366637	49.324
118) Bromobenzene	(3)	9.223	156	417277	48.672
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	507356	54.352
120) 1,2,3-Trichloropropane	(3)	9.260	110	152781	55.484
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	382126M	136.589
122) n-Propylbenzene	(3)	9.315	91	2273970	51.759
123) 2-Chlorotoluene	(3)	9.376	126	439495	50.167
124) 1,3,5-Trimethylbenzene	(3)	9.449	105	1537332	51.235
125) 4-Chlorotoluene	(3)	9.455	126	431797	48.637
127) tert-Butylbenzene	(3)	9.686	134	377344	50.552
128) Pentachloroethane	(3)	9.699	167	217749	48.744
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	1590576	51.133
132) sec-Butylbenzene	(3)	9.845	105	2059758	52.246
133) 1,3-Dichlorobenzene	(3)	9.924	146	818420	49.298
134) p-Isopropyltoluene	(3)	9.949	119	1765511	51.508
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	484372	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	814909	48.523
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	1496798	49.127
138) Benzyl Chloride	(3)	10.083	91	825279	51.844
139) 1,3-Diethylbenzene	(3)	10.162	105	989791	50.065
140) 1,4-Diethylbenzene	(3)	10.217	105	907954	49.387
141) n-Butylbenzene	(3)	10.235	92	872115M	50.843
142) 1,2-Dichlorobenzene	(3)	10.247	146	773820	48.726
143) 1,2-Diethylbenzene	(3)	10.302	105	905908A	49.150
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	107995	62.290
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	572551	49.522
147) Hexachlorobutadiene	(3)	11.430	225	257983	47.949
148) Naphthalene	(3)	11.485	128	1854161	55.628
149) 1,2,3-Trichlorobenzene	(3)	11.643	180	533728	49.750
152) 2-Methylnaphthalene	(3)	12.198	142	964204	54.753

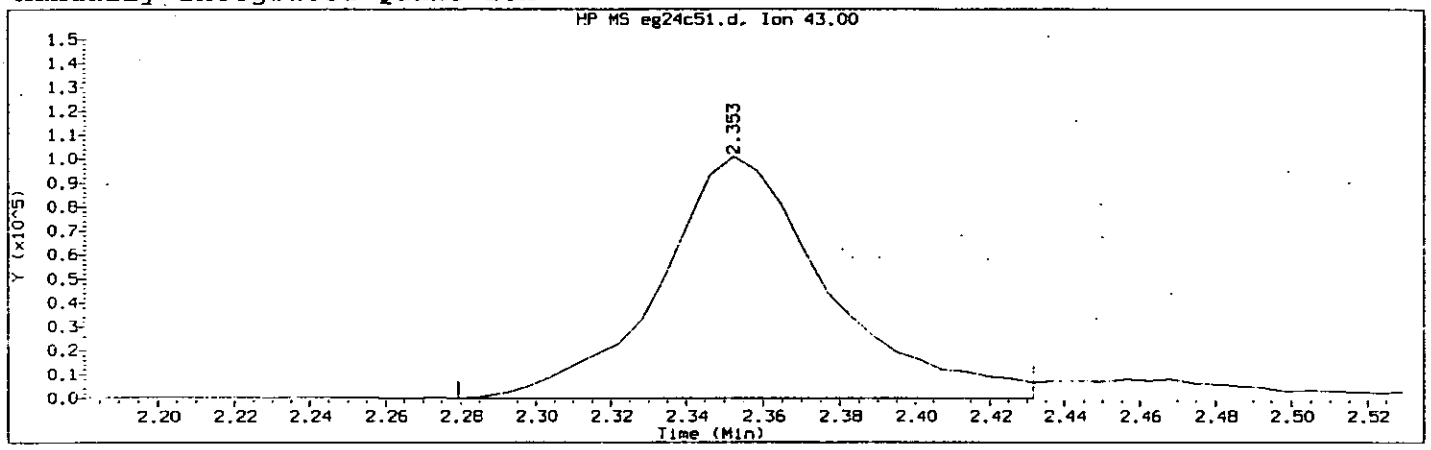
M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sara E. Johnson
on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 16
Compound Name : Acetone
Scan Number : 224
Retention Time (minutes): 2.353
Quant Ion : 43.00
Area (flag) : 309326M
On-Column Amount (ng) : 136.6171
Integration start scan : 211 Integration stop scan: 236
Y at integration start : 0 Y at integration end: 0

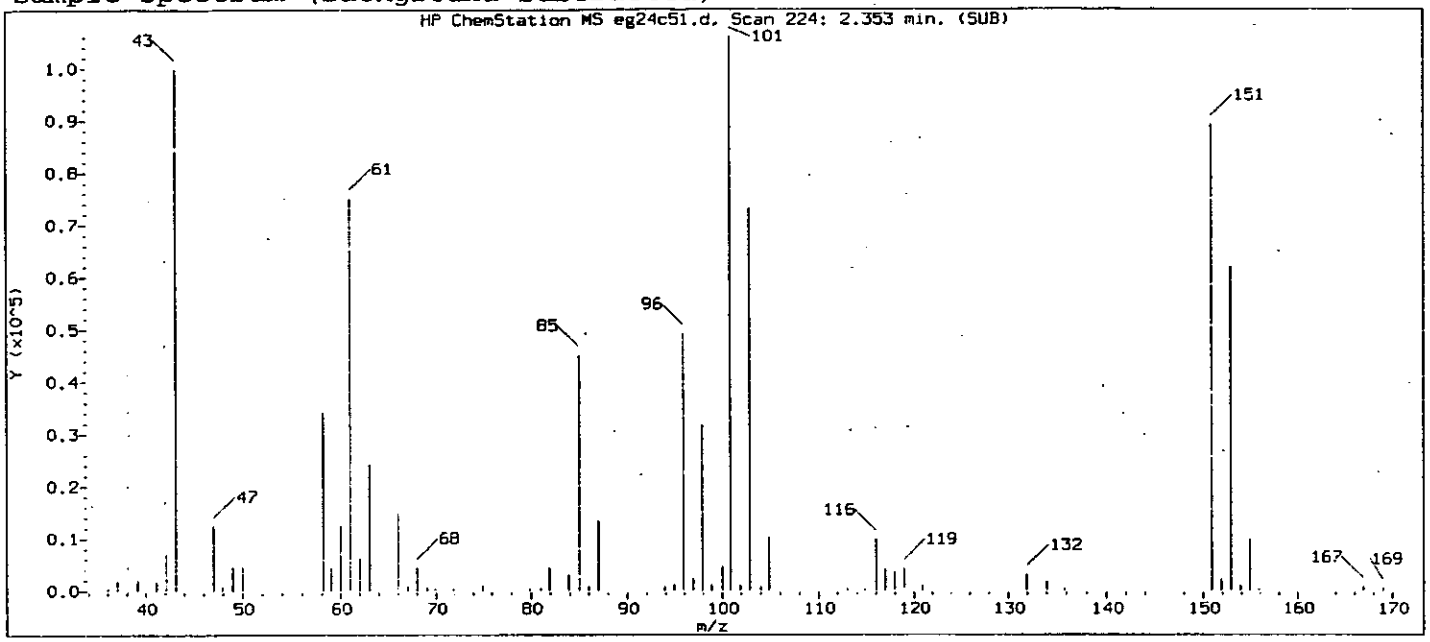
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36. Target 3.5 esignature user ID: sej02002

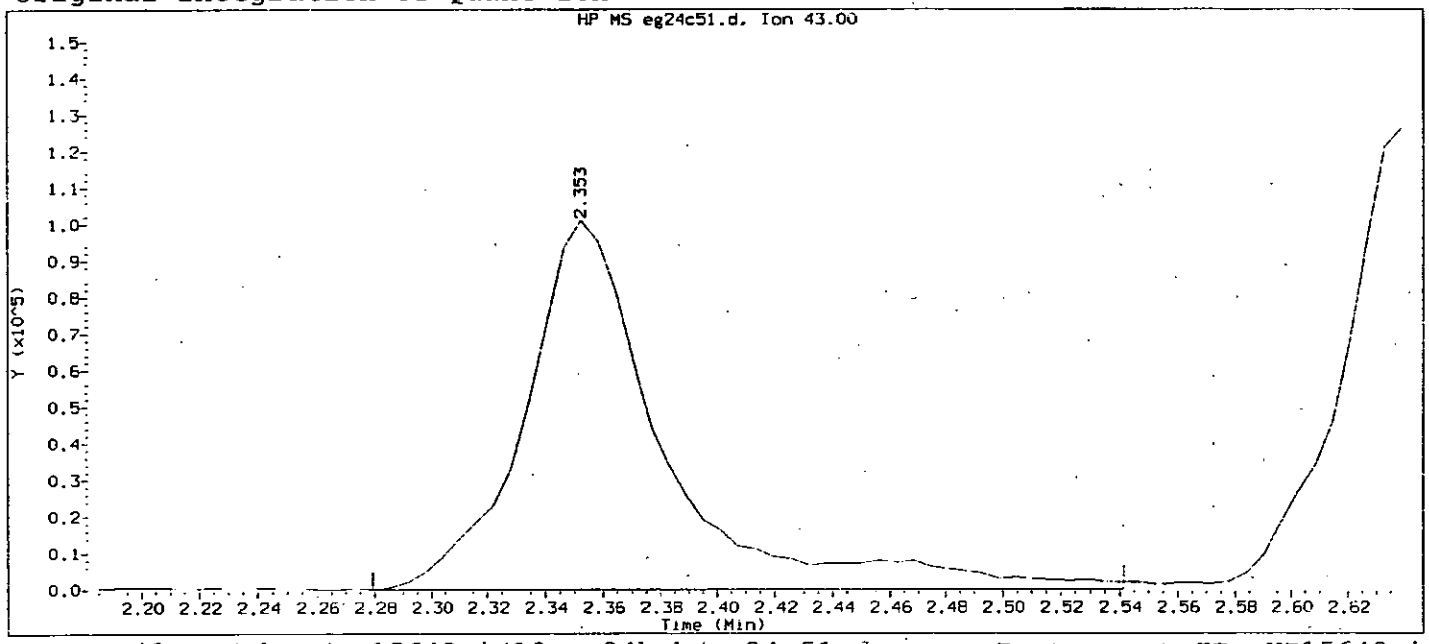
PTL06 0498

GC/MS audit/management approval: [signature] 8/28/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:27
Date, time and analyst ID of latest file update: 24-Aug-2010 16:27 Automation

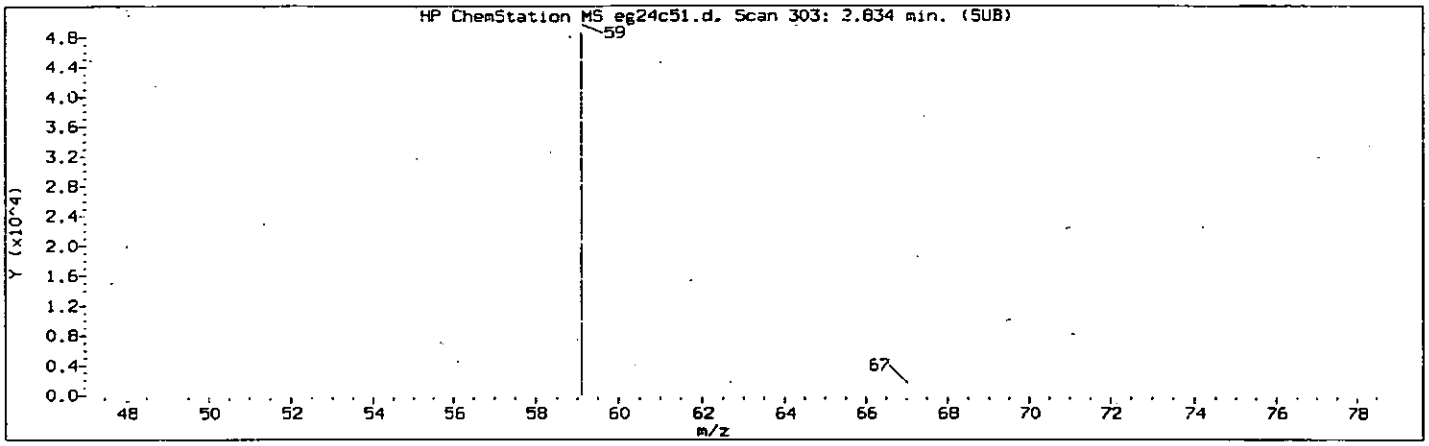
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 16
Compound Name : Acetone
Scan Number : 224
Retention Time (minutes): 2.353
Quant Ion : 43.00
Area : 340781
On-column Amount (ng) : 150.5098
Integration start scan : 211 Integration stop scan: 254
Y at integration start : 0 Y at integration end: 0

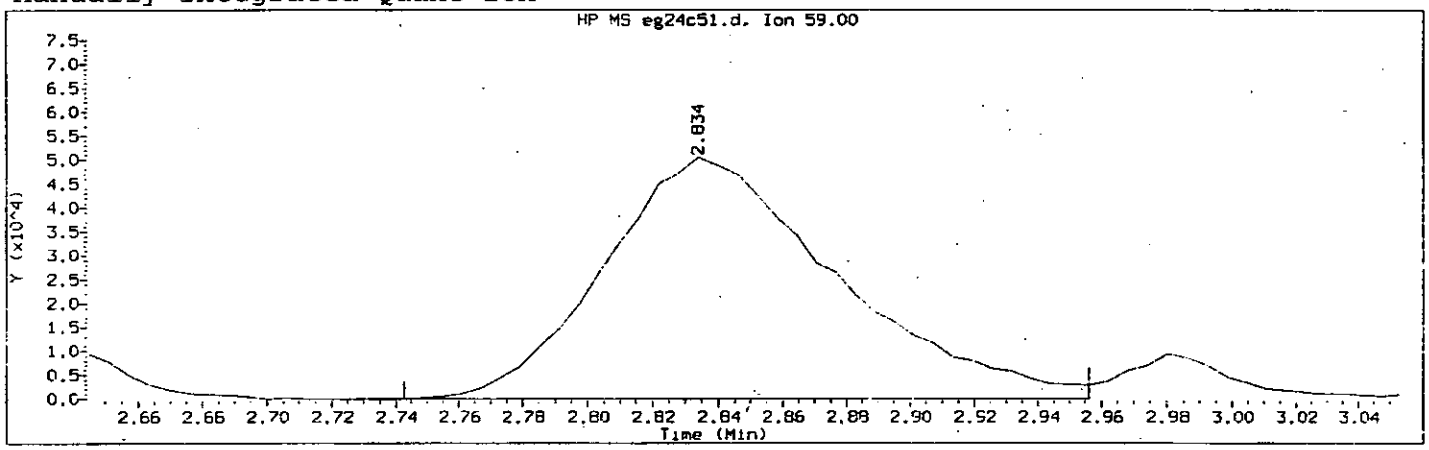
PTL86 8491

Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 26		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 303		
Retention Time (minutes)	: 2.834		
Quant Ion	: 59.00		
Area (flag)	: 252013M		
On-Column Amount (ng)	: 267.5890		
Integration start scan	: 287	Integration stop scan:	322
Y at integration start	: 0	Y at integration end:	0

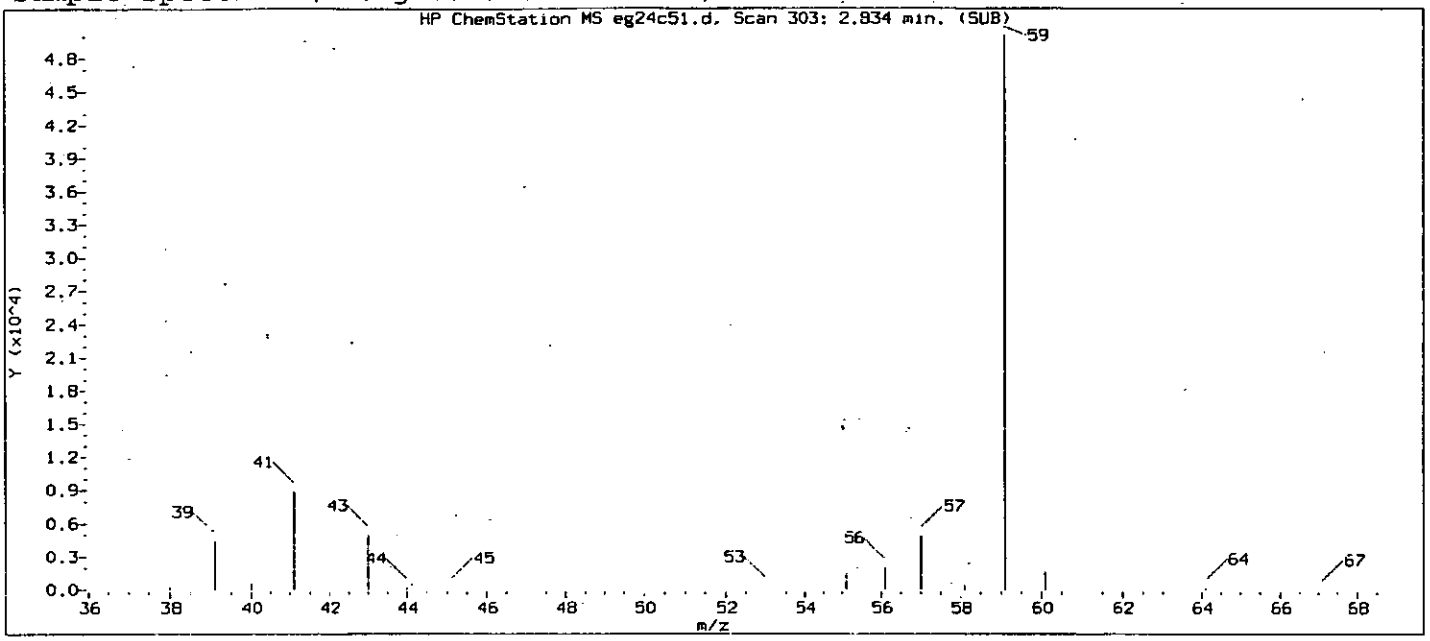
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36. Target 3.5 esignature user ID: sej02002

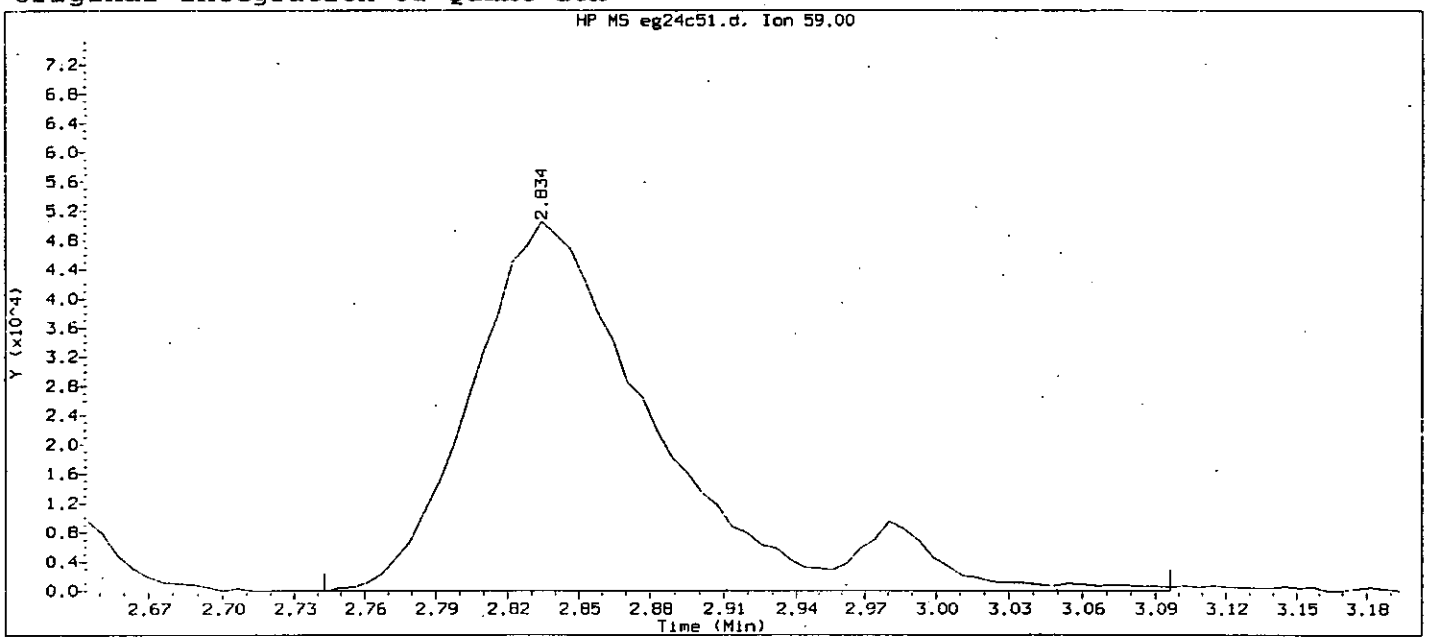
PTL86 8492

GC/MS audit/management approval: [signature] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:27
Date, time and analyst ID of latest file update: 24-Aug-2010 16:27 Automation

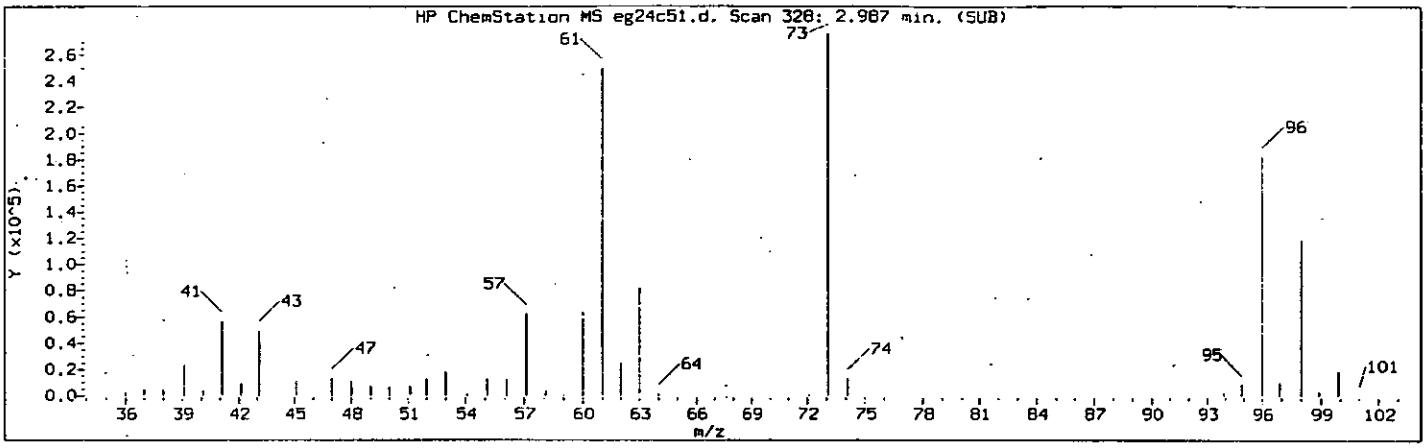
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 303
Retention Time (minutes): 2.834
Quant Ion : 59.00
Area : 275395
On-column Amount (ng) : 292.4165
Integration start scan : 287 Integration stop scan: 345
Y at integration start : 0 Y at integration end: 0

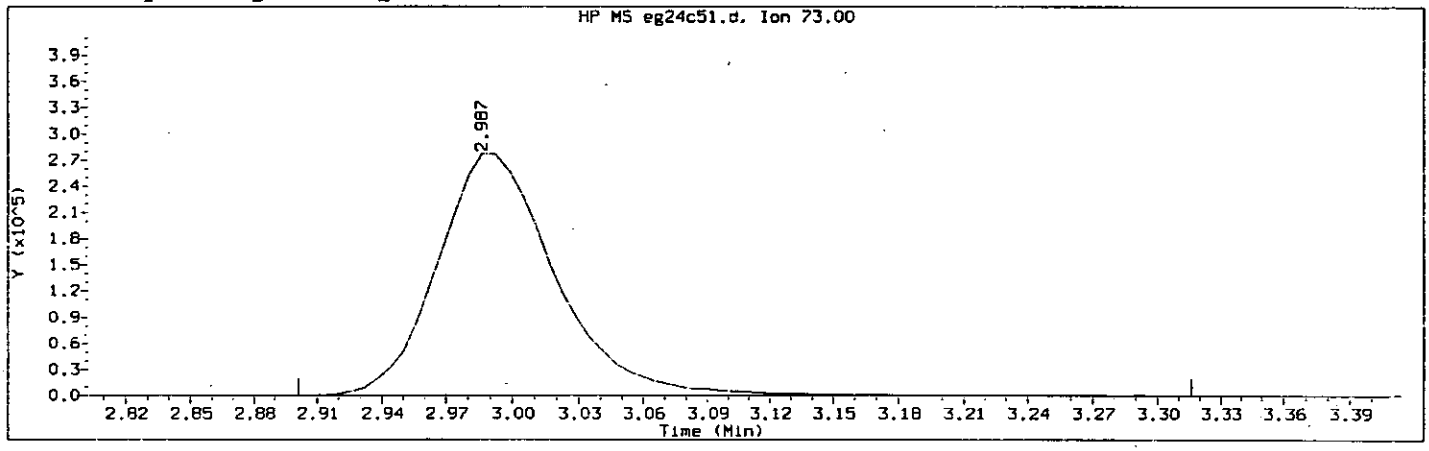
PTL86 8493

Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 29
Compound Name : Methyl Tertiary Butyl Ether
Scan Number : 328
Retention Time (minutes): 2.987
Quant Ion : 73.00
Area (flag) : 1044536M
On-Column Amount (ng) : 51.0402
Integration start scan : 313 Integration stop scan: 381
Y at integration start : 0 Y at integration end: 0

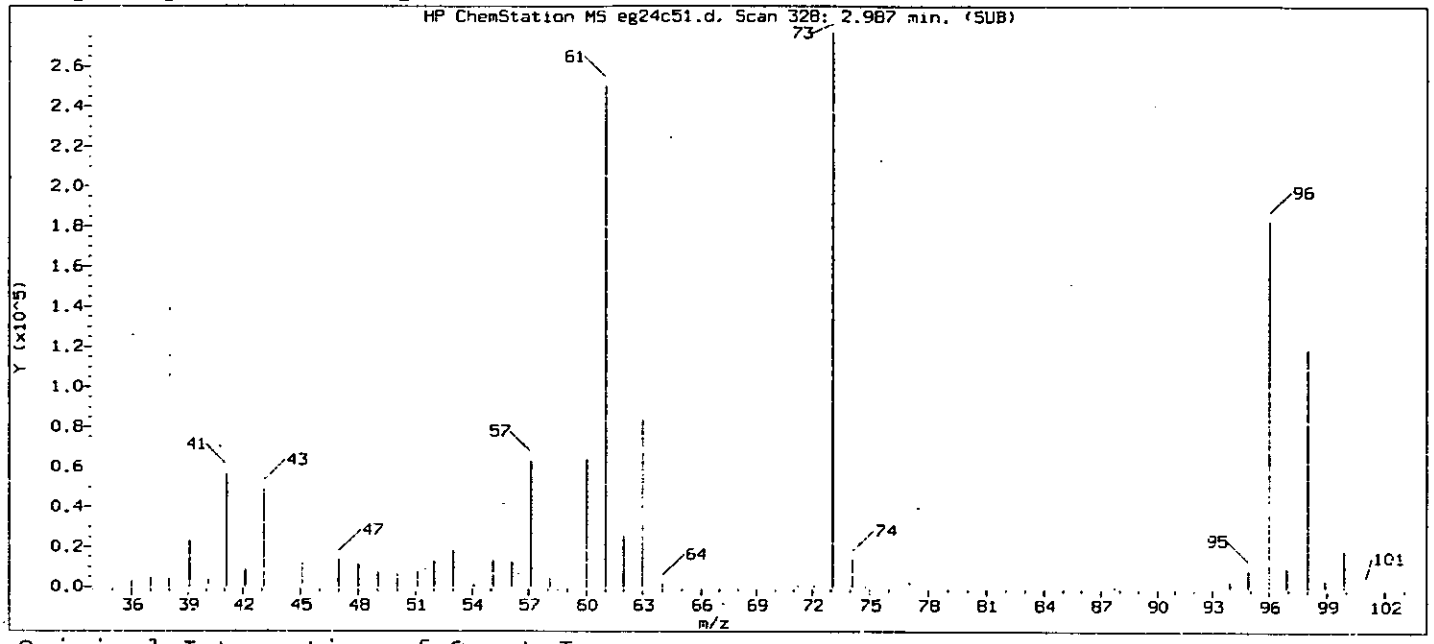
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36. Target 3.5 esignature user ID: sej02002

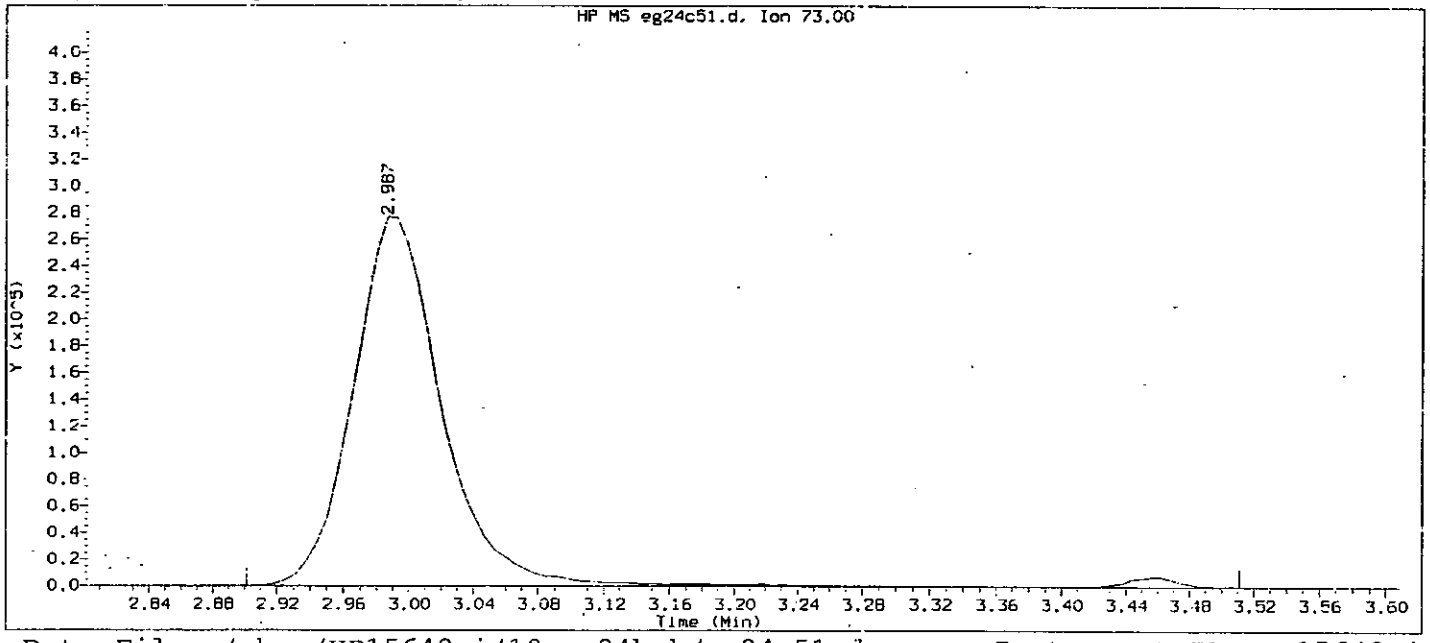
PTL86 8494

GC/MS audit/management approval: [illegible] 12/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:27
Date, time and analyst ID of latest file update: 24-Aug-2010 16:27 Automation

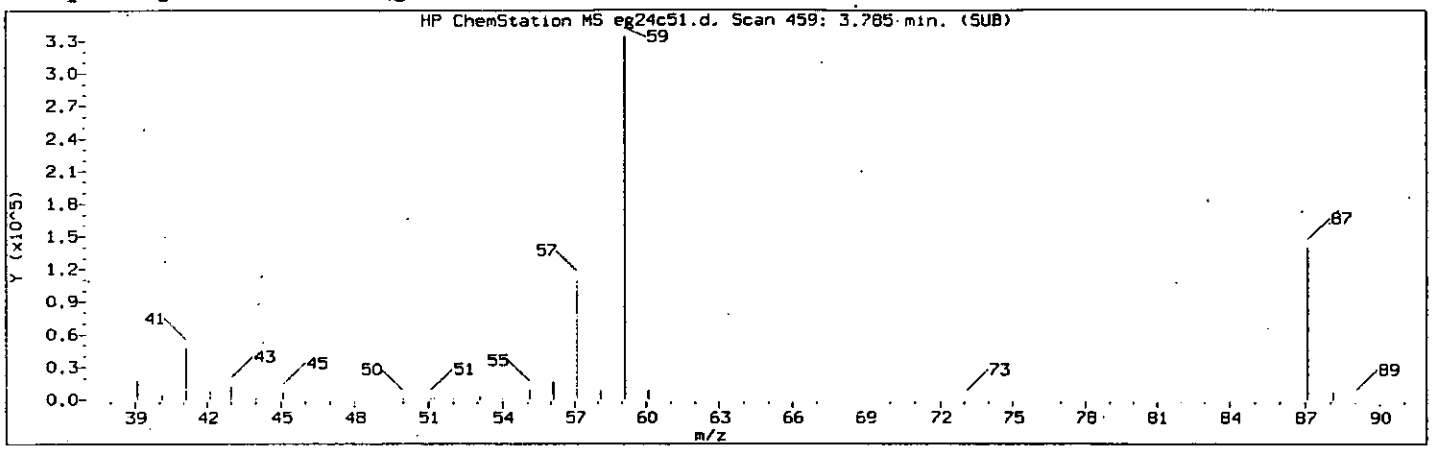
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 29
Compound Name : Methyl Tertiary Butyl Ether
Scan Number : 328
Retention Time (minutes): 2.987
Quant Ion : 73.00
Area : 1061273
On-column Amount (ng) : 51.8580
Integration start scan : 313 Integration stop scan: 413
Y at integration start : 0 Y at integration end: 0

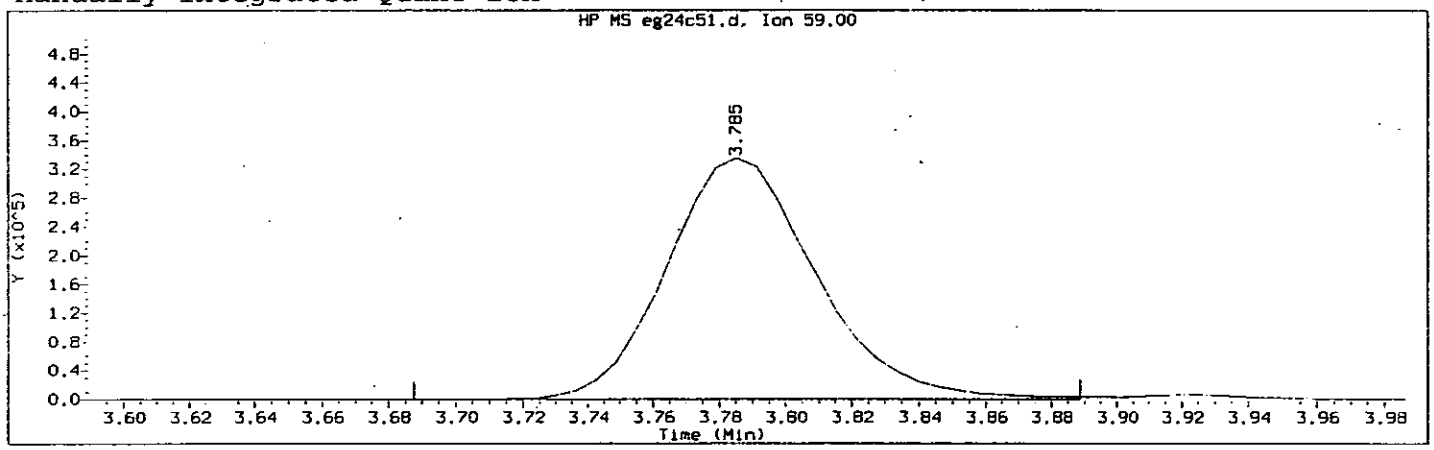
PTL06 0495

Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 37		
Compound Name	: Ethyl t-Butyl Ether		
Scan Number	: 459		
Retention Time (minutes)	: 3.785		
Quant Ion	: 59.00		
Area (flag)	: 1047180M		
On-Column Amount (ng)	: 50.1881		
Integration start scan	: 442	Integration stop scan:	475
Y at integration start	: 0	Y at integration end:	0

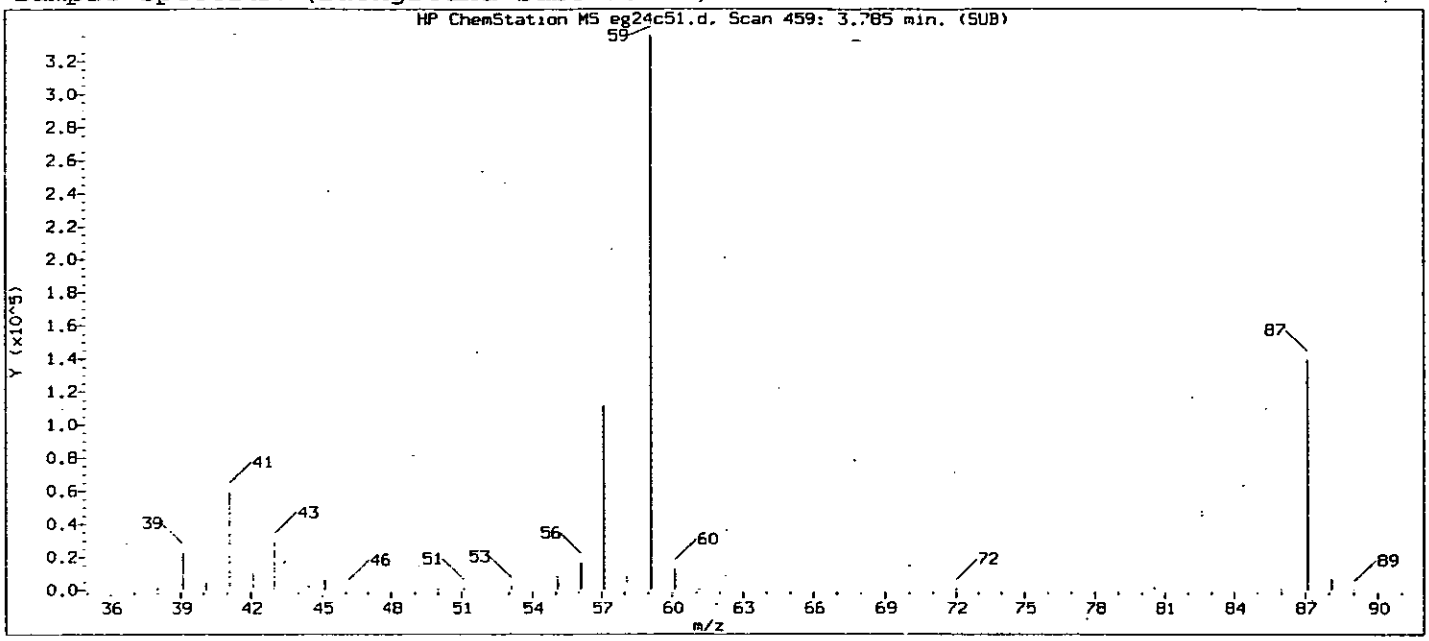
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36. Target 3.5 esignature user ID: sej02002

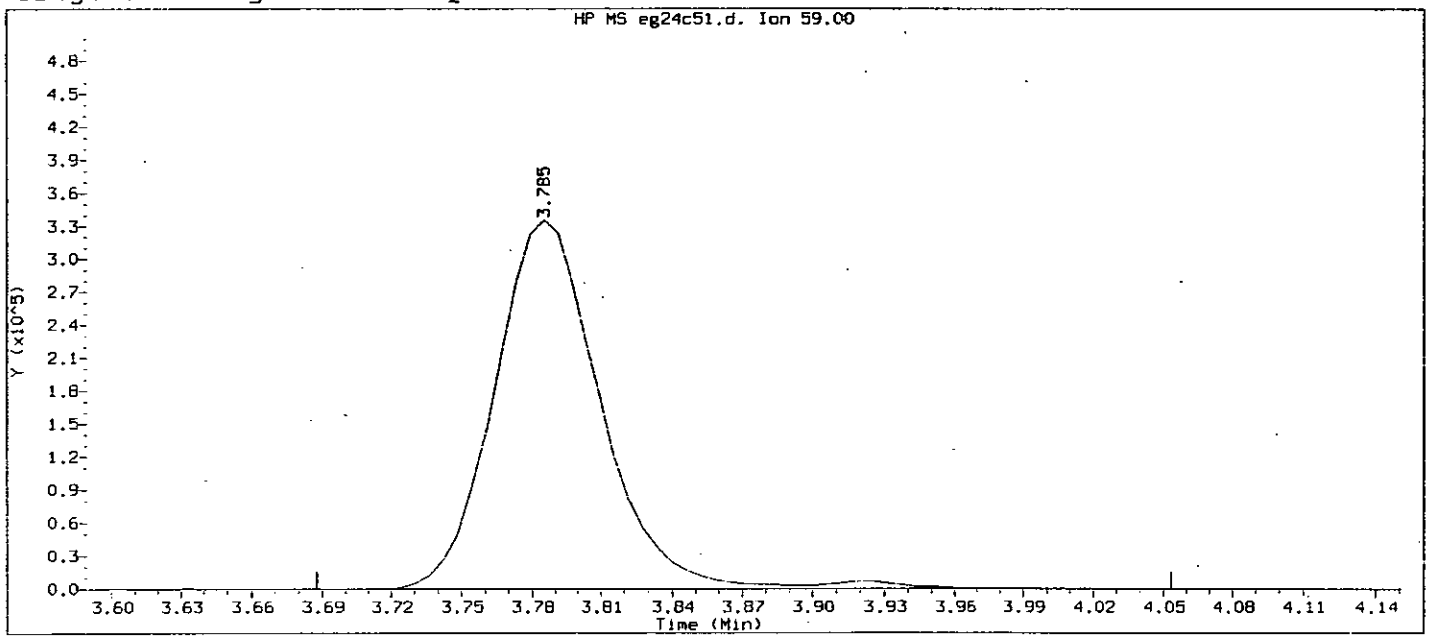
PTL86 0496

GC/MS audit/management approval: [signature] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:27
Date, time and analyst ID of latest file update: 24-Aug-2010 16:27 Automation

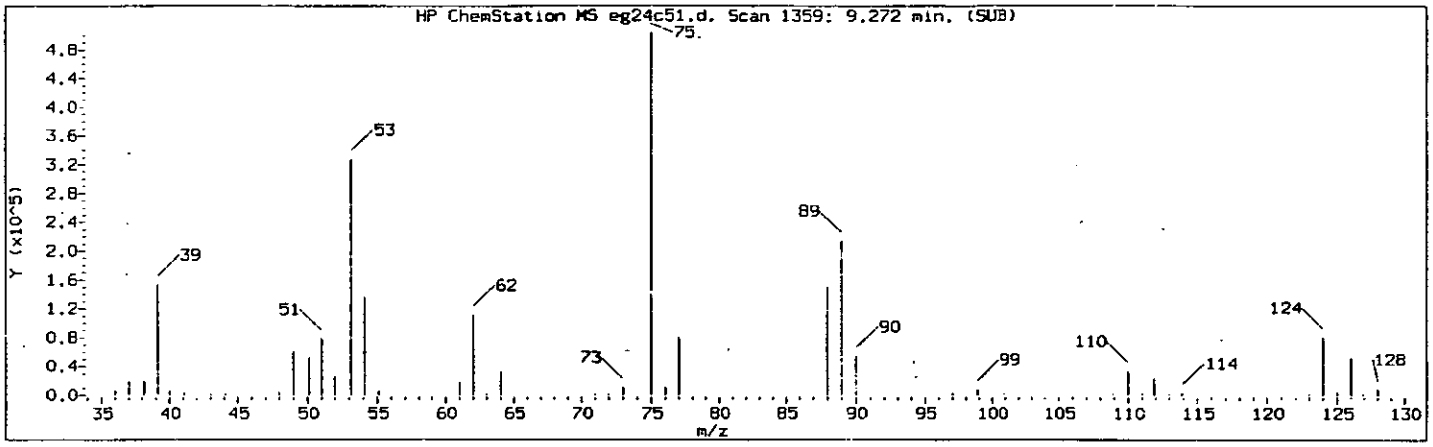
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 459
Retention Time (minutes): 3.785
Quant Ion : 59.00
Area : 1065564
On-column Amount (ng) : 51.0692
Integration start scan : 442 Integration stop scan: 502
Y at integration start : 0 Y at integration end: 0

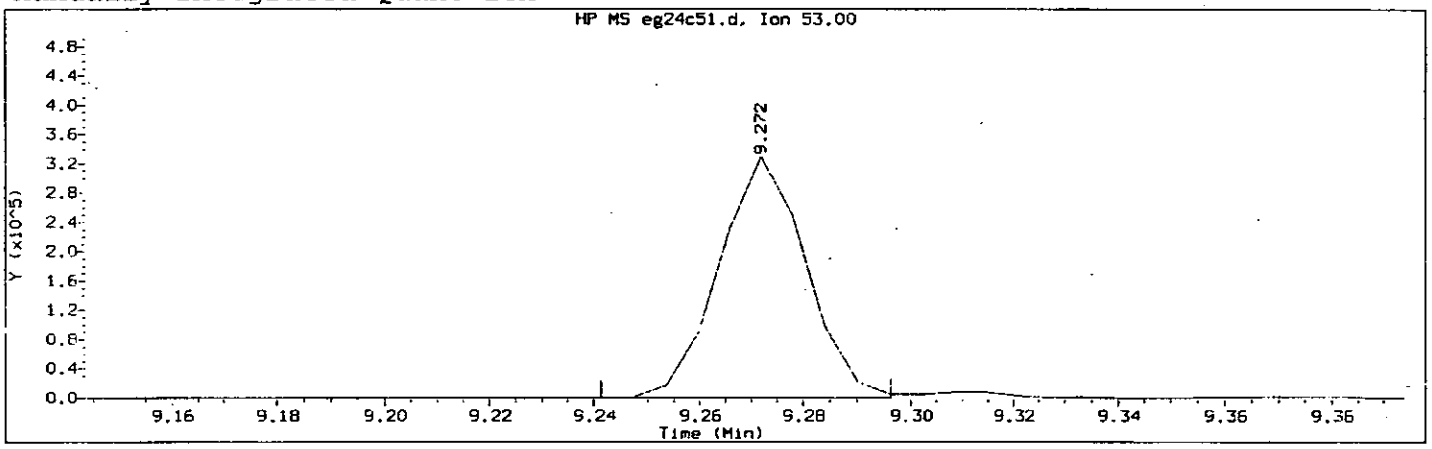
PTL06 0497

Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	:	121
Compound Name	:	trans-1,4-Dichloro-2-Butene
Scan Number	:	1359
Retention Time (minutes)	:	9.272
Quant Ion	:	53.00
Area (flag)	:	382126M
On-Column Amount (ng)	:	136.5891
Integration start scan	:	1353 Integration stop scan: 1362
Y at integration start	:	0 Y at integration end: 0

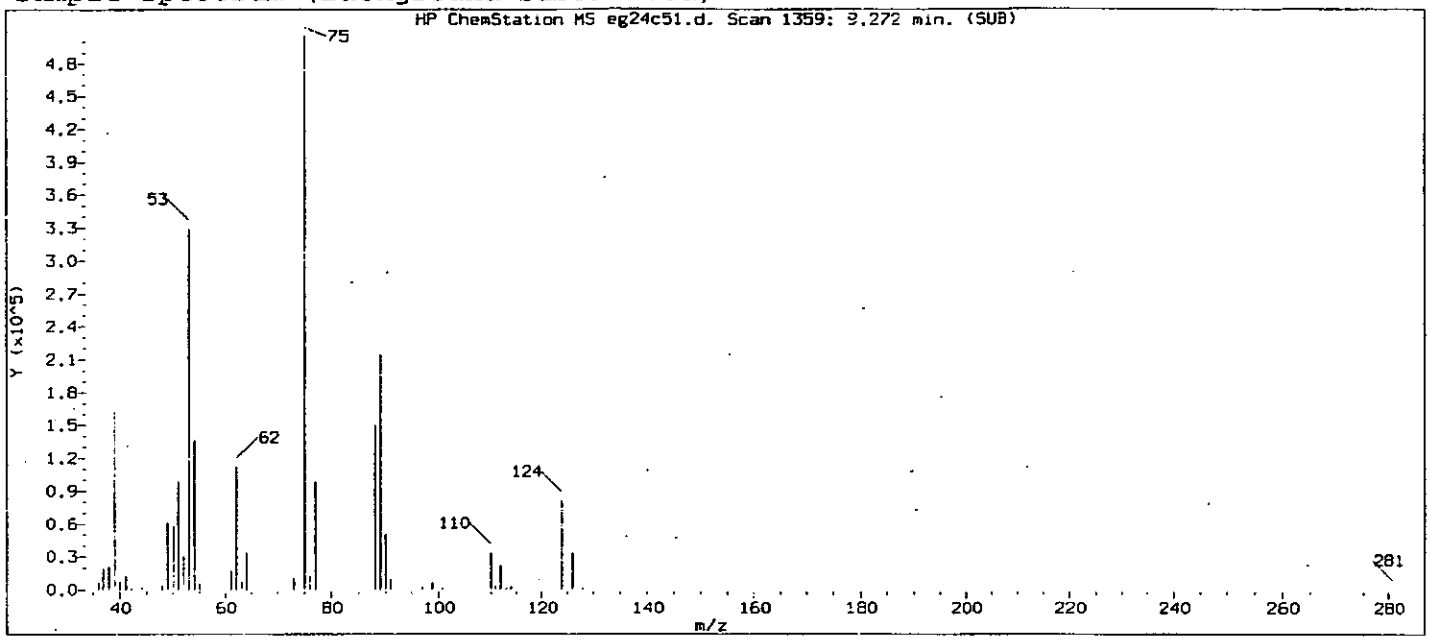
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36. Target 3.5 esignature user ID: sej02002

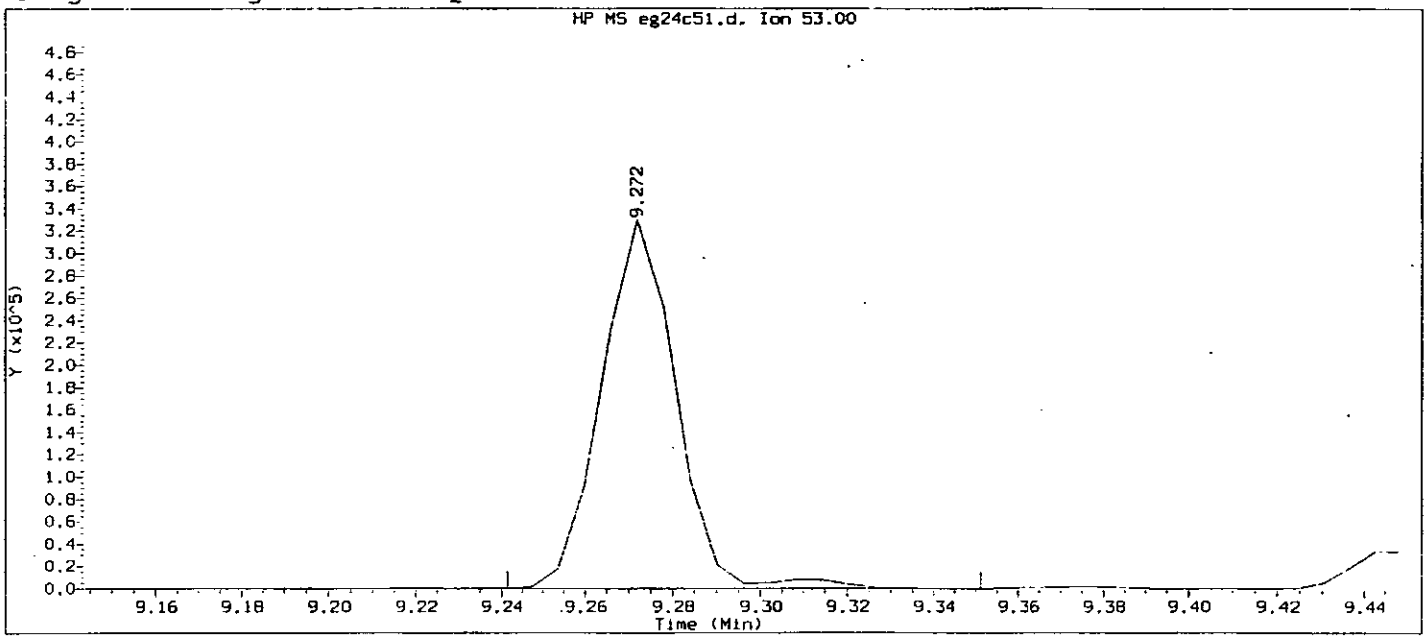
PTL06 #498

GC/MS audit/management approval: [illegible] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:27
Date, time and analyst ID of latest file update: 24-Aug-2010 16:27 Automation

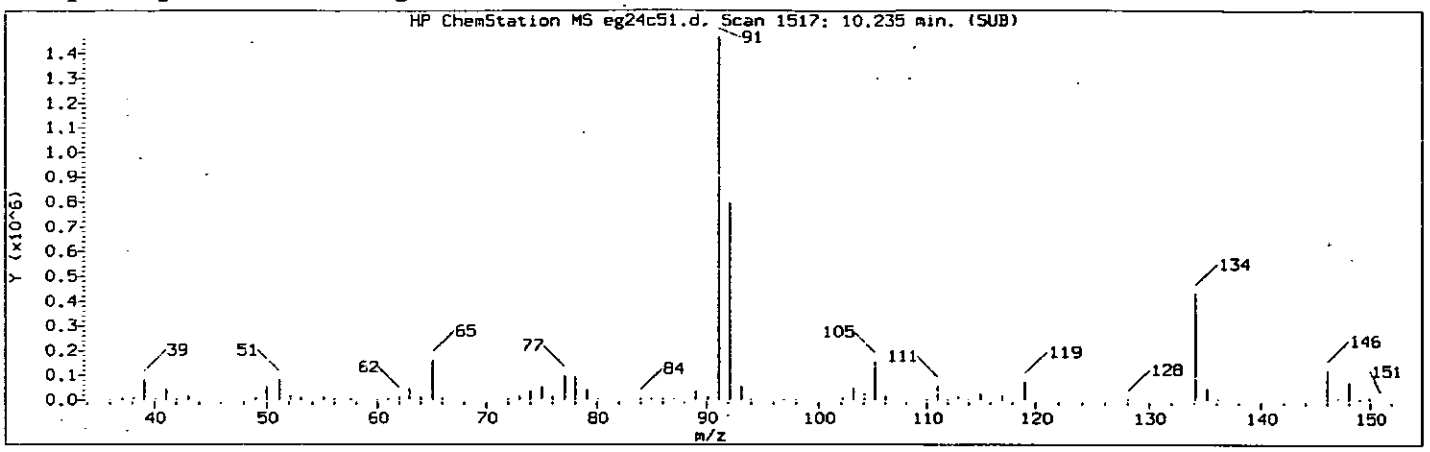
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 391710
On-column Amount (ng) : 140.0148
Integration start scan : 1353 Integration stop scan: 1371
Y at integration start : 0 Y at integration end: 0

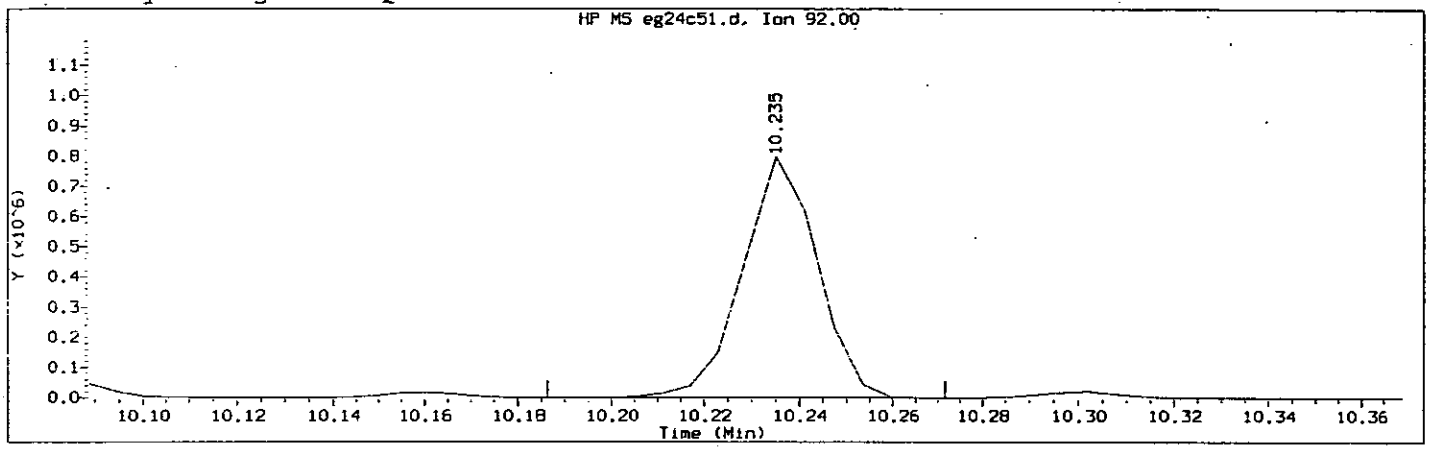
PTL06 0499

Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 141
Compound Name : n-Butylbenzene
Scan Number : 1517
Retention Time (minutes): 10.235
Quant Ion : 92.00
Area (flag) : 872115M
On-Column Amount (ng) : 50.8433
Integration start scan : 1508 Integration stop scan: 1522
Y at integration start : 0 Y at integration end: 0

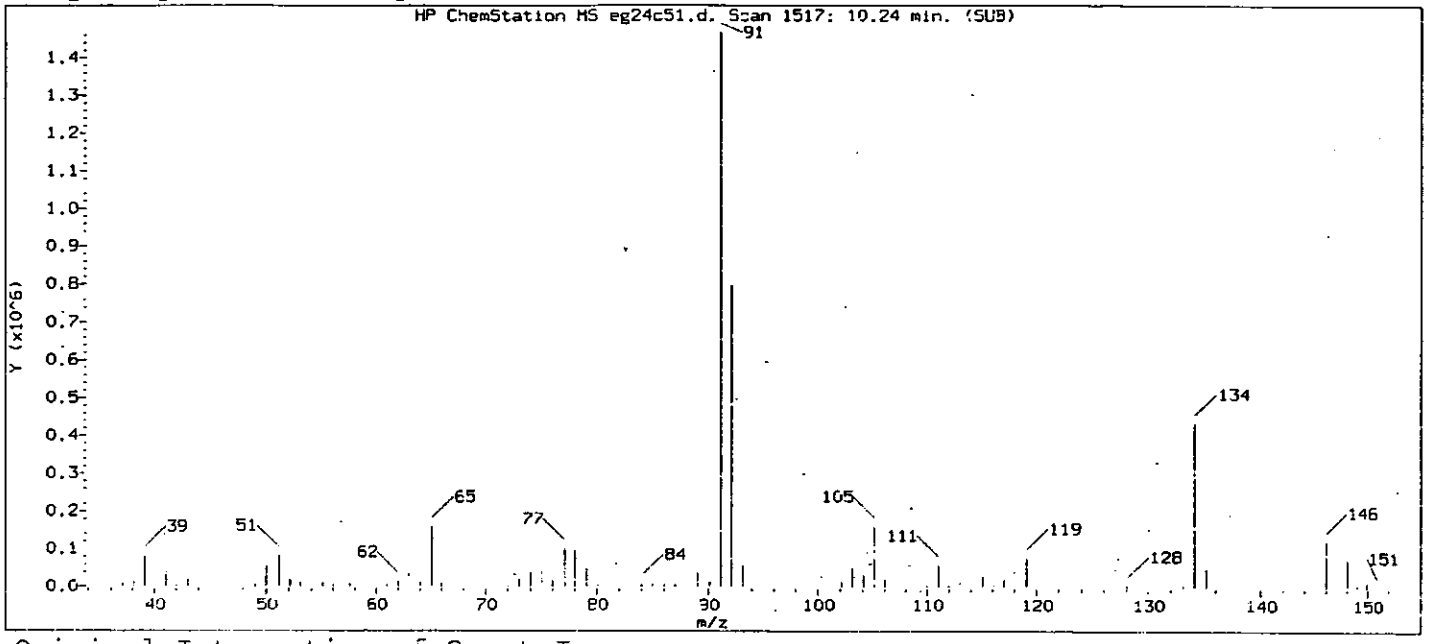
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36. Target 3.5 esignature user ID: sej02002

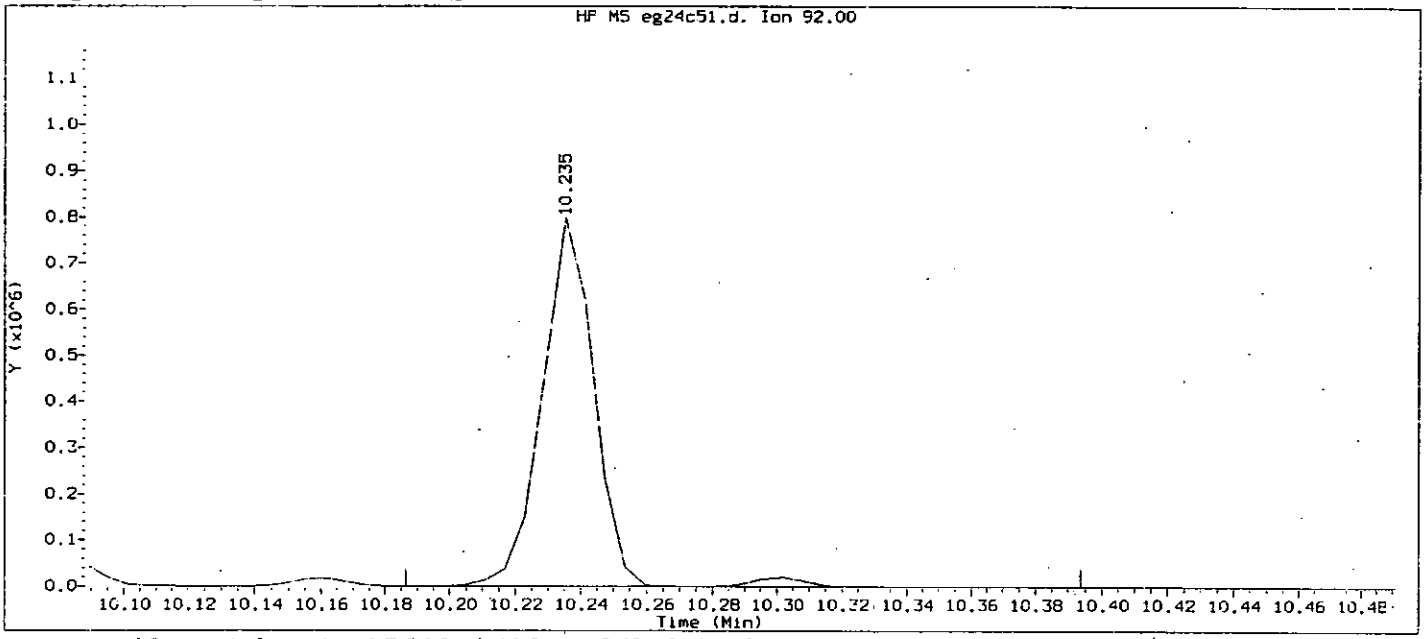
PTL06 0588

GC/MS audit/management approval: [signature] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:27
Date, time and analyst ID of latest file update: 24-Aug-2010 16:27 Automation

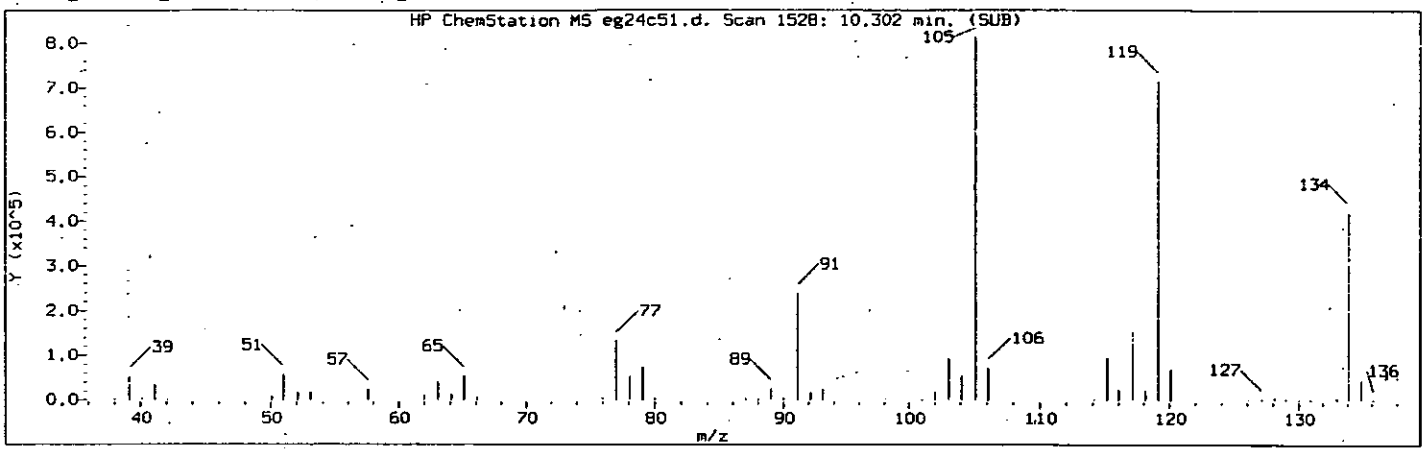
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 141
Compound Name : n-Butylbenzene
Scan Number : 1517
Retention Time (minutes): 10.235
Quant Ion : 92.00
Area : 895228
On-column Amount (ng) : 52.1907
Integration start scan : 1508 Integration stop scan: 1542
Y at integration start : 0 Y at integration end: 0

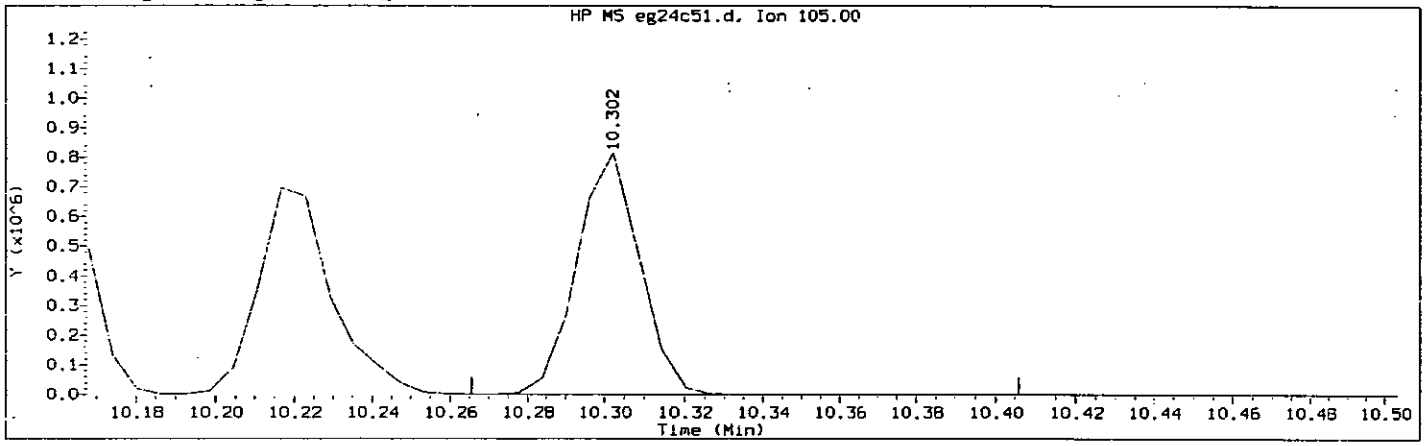
PTL06 8581

Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:36 sej02002

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 143
Compound Name : 1,2-Diethylbenzene
Scan Number : 1528
Retention Time (minutes): 10.302
Quant Ion : 105.00
Area (flag) : 905908A
On-Column Amount (ng) : 49.1499
Integration start scan : 1521 Integration stop scan: 1544
Y at integration start : 0 Y at integration end: 0

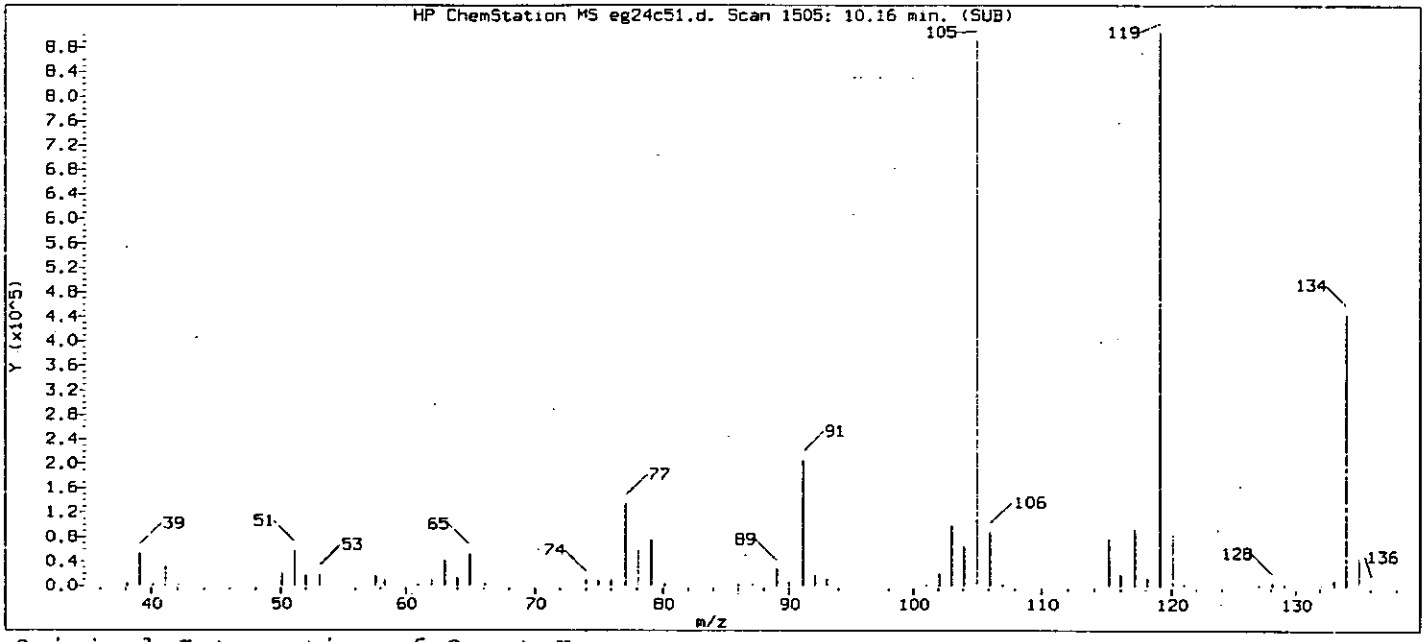
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36. Target 3.5 esignature user ID: sej02002

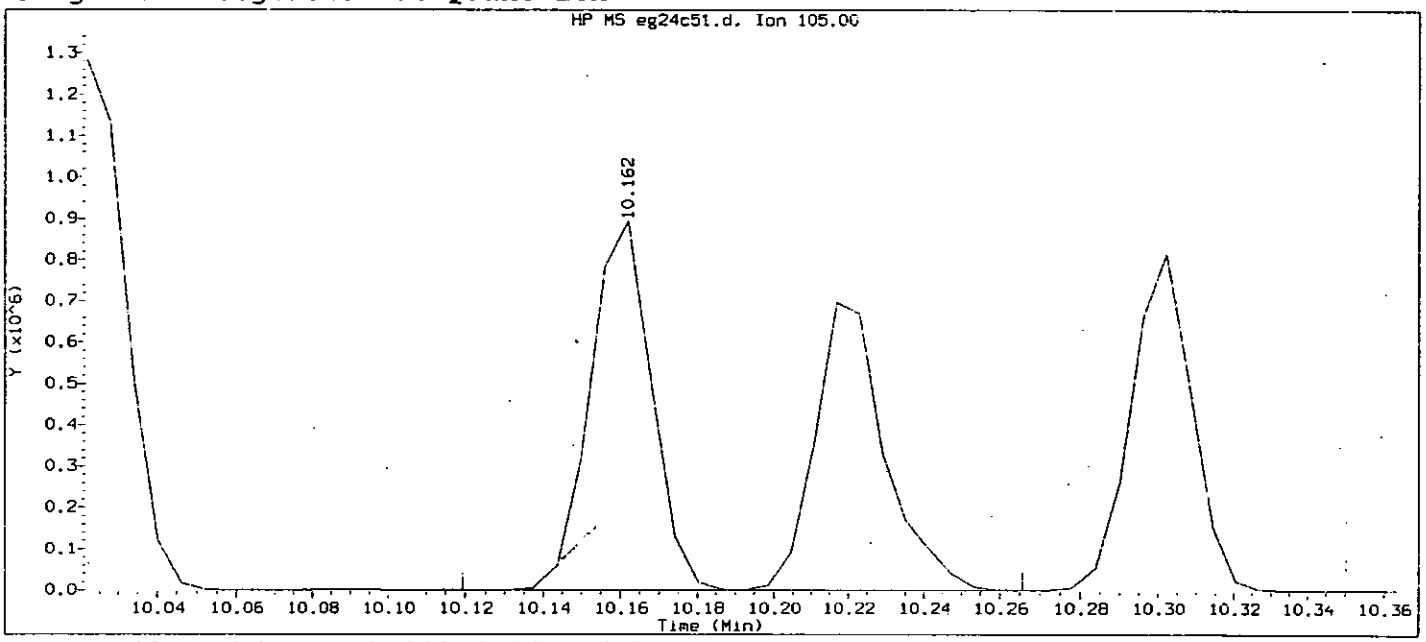
PTL86 0502

GC/MS audit/management approval: [signature] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24c51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:10 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260WI-F
Calibration date and time: 24-AUG-2010 16:27
Date, time and analyst ID of latest file update: 24-Aug-2010 16:27 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 143
Compound Name : 1,2-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 1897745
On-column Amount (ng) : 102.9618
Integration start scan : 1497 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

PTL86 8583

Digitally signed by Sara E. Johnson on 08/24/2010 at 16:36.
Target 3.5 esignature user ID: sej02002

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP15648 Calibration Date: 08/25/10 Time: 08:58

Lab File ID: eg25c01.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4396	0.4181	47.55	50	-5	
#	Chloromethane	0.4484	0.4595	51.24	50	2	#
	1,3-Butadiene	0.2824	0.2595	45.95	50	-8	
*	Vinyl Chloride	0.4335	0.4358	50.27	50	1	*
	Bromomethane	0.2745	0.2711	49.37	50	-1	
	Chloroethane	0.2562	0.2627	51.27	50	3	
	Dichlorofluoromethane	0.5595	0.5407	48.32	50	-3	
	Trichlorofluoromethane	0.4747	0.4420	46.56	50	-7	
	n-Pentane	0.5220	0.0462	4.42	50	-91	
	Ethyl Ether	0.2438	0.2260	46.36	50	-7	
	Freon 123a	0.3520	0.3403	48.33	50	-3	
	Acrolein	2.8089	2.3861	424.73	500	-15	
*	1,1-Dichloroethene	0.2833	0.2700	47.65	50	-5	*
	Freon 113	0.2851	0.2641	46.33	50	-7	
	Acetone	0.0900	0.1093	121.42	100	21	
	Methyl Iodide	0.4669	0.4467	47.83	50	-4	
	Carbon Disulfide	0.7821	0.7560	48.33	50	-3	
	Allyl Chloride	0.4560	0.4233	46.41	50	-7	
	Methyl Acetate	0.2402	0.2413	50.22	50	0	
	Methylene Chloride	0.2962	0.2778	46.88	50	-6	
	t-Butyl Alcohol	1.1985	1.1740	244.90	250	-2	
	Acrylonitrile	0.1349	0.1492	55.31	50	11	
	trans-1,2-Dichloroethene	0.2948	0.2851	48.35	50	-3	
	Methyl Tertiary Butyl Ether	0.8140	0.8044	49.41	50	-1	
	n-Hexane	0.4579	0.4062	44.35	50	-11	
	1,2-Dichloroethene (total)	0.3031	0.2903	95.81	100	-4	
#	1,1-Dichloroethane	0.5277	0.5171	49.00	50	-2	#
	di-Isopropyl Ether	0.8890	0.8806	49.52	50	-1	
	2-Chloro-1,3-Butadiene	0.4105	0.4120	50.18	50	0	
	Ethyl t-Butyl Ether	0.8299	0.8297	49.99	50	0	
	cis-1,2-Dichloroethene	0.3113	0.2955	47.46	50	-5	
	2-Butanone	0.1511	0.1854	122.71	100	23	
	2,2-Dichloropropane	0.3935	0.3915	49.75	50	-1	
	Propionitrile	1.9747	1.8382	232.72	250	-7	
	Methacrylonitrile	0.1429	0.1523	140.27	125	12	
	Bromochloromethane	0.1479	0.1320	44.63	50	-11	

PTL86 0504

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: HP15648 Calibration Date: 08/25/10 Time: 08:58

Lab File ID: eg25c01.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Tetrahydrofuran	1.8328	1.6482	89.92	100	-10	
*	Chloroform	0.4673	0.4494	48.08	50	-4	*
	1,1,1-Trichloroethane	0.4501	0.4147	46.06	50	-8	
	Cyclohexane	0.5526	0.5182	46.89	50	-6	
	1,1-Dichloropropene	0.4254	0.4168	49.00	50	-2	
	Carbon Tetrachloride	0.3267	0.3204	49.03	50	-2	
	Isobutyl Alcohol	0.4054	0.3931	606.06	625	-3	
	Benzene	1.2165	1.1672	47.97	50	-4	
	1,2-Dichloroethane	0.3482	0.3401	48.84	50	-2	
	t-Amyl Methyl Ether	0.8054	0.7890	48.98	50	-2	
	n-Heptane	0.4556	0.4029	44.22	50	-12	
	n-Butanol	0.3584	0.3393	1183.33	1250	-5	
	Trichloroethene	0.3128	0.2985	47.72	50	-5	
*	1,2-Dichloropropane	0.3077	0.2934	47.68	50	-5	*
	Methylcyclohexane	0.5793	0.5057	43.64	50	-13	
	Methyl Methacrylate	0.2580	0.2704	52.40	50	5	
	Dibromomethane	0.1752	0.1676	47.82	50	-4	
	1,4-Dioxane	0.1160	0.1298	699.27	625	12	
	Bromodichloromethane	0.3295	0.3113	47.24	50	-6	
	2-Nitropropane	0.0633	0.0666	112.75	100	13	
	2-Chloroethyl Vinyl Ether	0.2103	0.2119	50.39	50	1	
	cis-1,3-Dichloropropene	0.4370	0.4119	47.13	50	-6	
	4-Methyl-2-Pentanone	0.3355	0.3818	113.80	100	14	
*	Toluene	1.0963	1.0540	48.07	50	-4	*
	trans-1,3-Dichloropropene	0.5606	0.5322	47.47	50	-5	
	Ethyl Methacrylate	0.4637	0.4629	49.92	50	0	
	1,1,2-Trichloroethane	0.3540	0.3449	48.72	50	-3	
	Tetrachloroethene	0.5097	0.4681	45.92	50	-8	
	1,3-Dichloropropane	0.6252	0.6117	48.92	50	-2	
	2-Hexanone	0.3308	0.3871	124.50	100	24	
	Dibromochloromethane	0.3452	0.3311	47.96	50	-4	
	1,2-Dibromoethane	0.3600	0.3452	47.94	50	-4	
#	Chlorobenzene	1.1868	1.1418	48.10	50	-4	#
	1,1,1,2-Tetrachloroethane	0.3535	0.3328	47.08	50	-6	
*	Ethylbenzene	2.1007	2.0593	49.02	50	-2	*
	m+p-Xylene	0.8254	0.8128	98.47	100	-2	

PTL06 0585

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: HP15648 Calibration Date: 08/25/10 Time: 08:58

Lab File ID: eg25c01.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Xylene (Total)	0.8165	0.8013	147.19	150	-2	
	o-Xylene	0.7988	0.7784	48.72	50	-3	
	Styrene	1.2613	1.2492	49.52	50	-1	
#	Bromoform	0.2531	0.2401	47.43	50	-5	#
	Isopropylbenzene	2.1027	2.0777	49.41	50	-1	
	Cyclohexanone	0.3937	0.4377	694.83	625	11	
#	1,1,2,2-Tetrachloroethane	0.9636	0.9719	50.43	50	1	#
	trans-1,4-Dichloro-2-Butene	0.2888	0.3072	132.98	125	6	
	Bromobenzene	0.8850	0.8261	46.67	50	-7	
	1,2,3-Trichloropropane	0.2842	0.2921	51.39	50	3	
	n-Propylbenzene	4.5351	4.4999	49.61	50	-1	
	2-Chlorotoluene	0.9043	0.8615	47.63	50	-5	
	1,3,5-Trimethylbenzene	3.0973	3.0272	48.87	50	-2	
	4-Chlorotoluene	0.9164	0.8665	47.27	50	-5	
	tert-Butylbenzene	0.7705	0.7368	47.81	50	-4	
	Pentachloroethane	0.4611	0.4330	46.95	50	-6	
	1,2,4-Trimethylbenzene	3.2111	3.1453	48.98	50	-2	
	sec-Butylbenzene	4.0696	3.9961	49.10	50	-2	
	p-Isopropyltoluene	3.5382	3.4369	48.57	50	-3	
	1,3-Dichlorobenzene	1.7137	1.6294	47.54	50	-5	
	1,4-Dichlorobenzene	1.7336	1.6487	47.55	50	-5	
	1,2,3-Trimethylbenzene	3.1451	2.9389	46.72	50	-7	
	Benzyl Chloride	1.6493	1.6154	49.27	50	-1	
	1,3-Diethylbenzene	2.0408	1.9069	46.72	50	-7	
	1,4-Diethylbenzene	1.8978	1.7760	46.79	50	-6	
	n-Butylbenzene	1.7706	1.7060	48.17	50	-4	
	1,2-Dichlorobenzene	1.6393	1.5639	47.70	50	-5	
	1,2-Diethylbenzene	1.9026	1.7687	46.48	50	-7	
	1,2-Dibromo-3-Chloropropane	0.1823	0.1997	56.09	50	12	
	1,2,4-Trichlorobenzene	1.1934	1.1177	46.83	50	-6	
	Hexachlorobutadiene	0.5554	0.4956	44.61	50	-11	
	Naphthalene	3.4407	3.6198	52.60	50	5	
	1,2,3-Trichlorobenzene	1.1074	1.0584	47.79	50	-4	
	2-Methylnaphthalene	1.8178	1.7905	49.25	50	-2	
	Dibromofluoromethane	0.2236	0.2218	49.61	50	-1	

PTL86 0586

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: HP15648 Calibration Date: 08/25/10 Time: 08:58

Lab File ID: eg25c01.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dibromofluoromethane(mz111)	0.2295	0.2258	49.19	50	-2
1,2-Dichloroethane-d4	0.0594	0.0589	49.63	50	-1
1,2-Dichloroethane-d4(mz104)	0.0382	0.0373	48.78	50	-2
Toluene-d8(mz100)	0.8943	0.9063	50.67	50	1
4-Bromofluorobenzene(mz174)	0.4217	0.4158	49.30	50	-1
Toluene-d8	1.3827	1.4061	50.85	50	2
4-Bromofluorobenzene	0.4905	0.4997	50.94	50	2

Average %Drift 6

PTL86 8507

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:

/chem/HP15648.i/10aug19a.b/eg19i07.d
/chem/HP15648.i/10aug19a.b/eg19i06.d
/chem/HP15648.i/10aug19a.b/eg19i05.d
/chem/HP15648.i/10aug19a.b/eg19i04.d
/chem/HP15648.i/10aug19a.b/eg19i03.d
/chem/HP15648.i/10aug19a.b/eg19i02.d

File /chem/HP15648.i/10aug19a.b/eg19i04.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/HP15648.i/10aug25a.b/eg25c01.d

RT Summary

Internal Standard Name	File ID: eg25c01.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	2.761	2.755	Yes
Fluorobenzene	5.047	5.047	Yes
Chlorobenzene-d5	8.126	8.126	Yes
1,4-Dichlorobenzene-d4	9.973	9.973	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

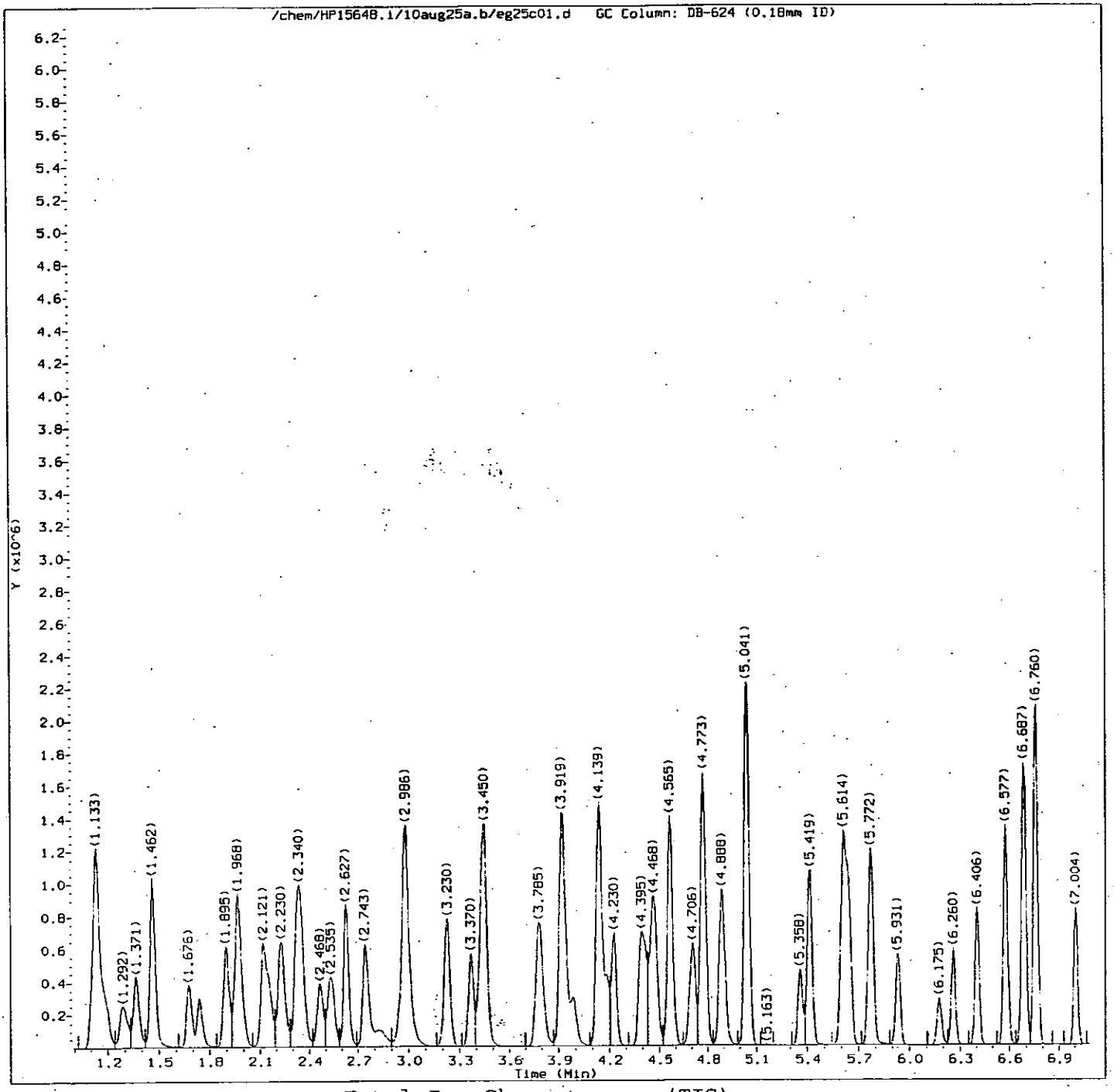
Area Summary

Internal Standard Name	File ID: eg25c01.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	194517	147036	73518	294072	Yes
Fluorobenzene	1244258	1118204	559102	2236408	Yes
Chlorobenzene-d5	886869	801714	400857	1603428	Yes
1,4-Dichlorobenzene-d4	491056	435125	217562	870250	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

report generated on 08/25/2010 at 09:30



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d
Injection date and time: 25-AUG-2010 08:58

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 09:30

Sublist used: 8260WI

Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050

Lab Sample ID: VSTD050

PTL06 0510

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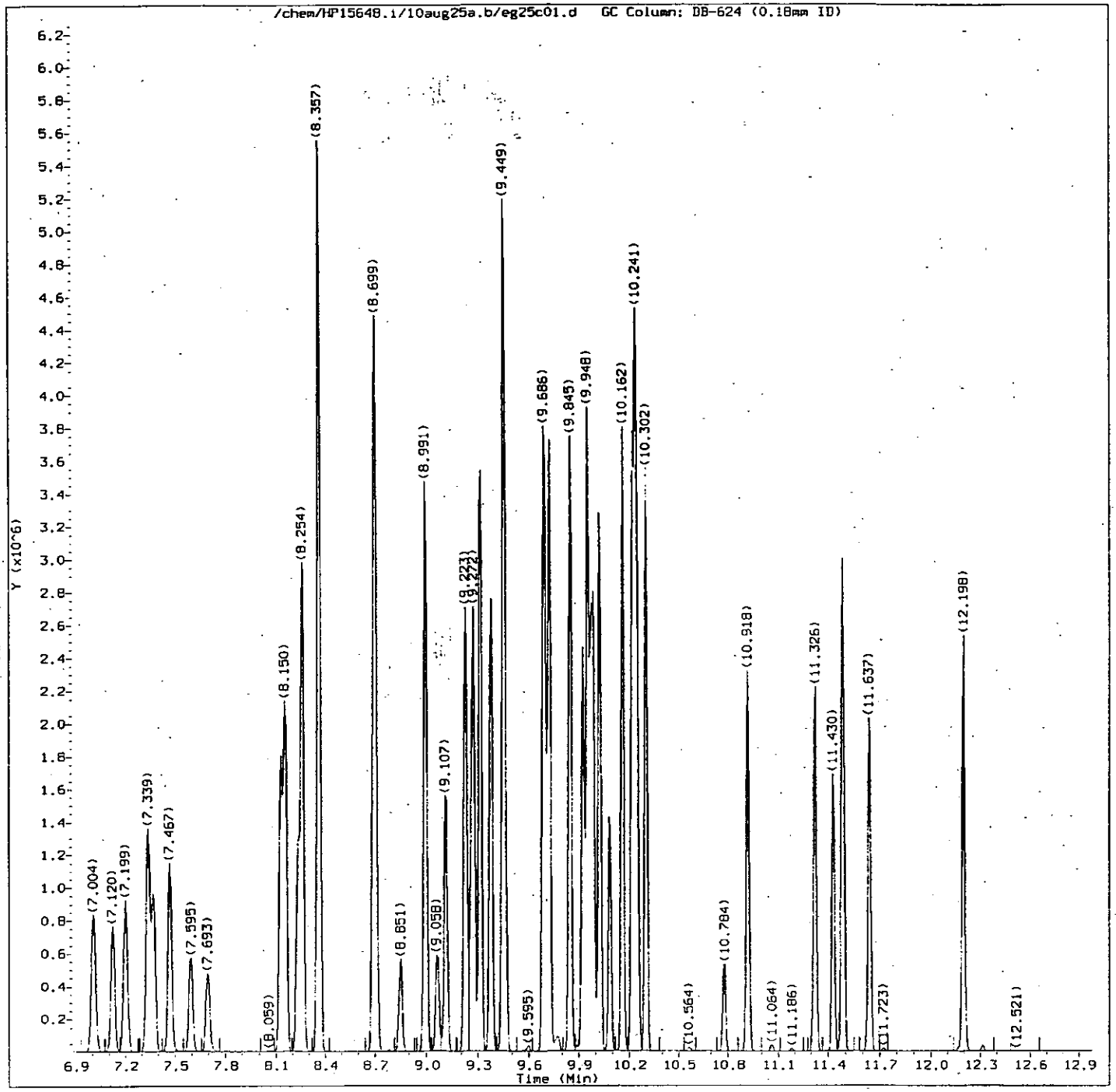
on 08/26/2010 at 06:21.
Target 3.5 esignature user ID: sas00403



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050 PTL06 0511

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on 08/26/2010 at 06:21.
Target 3.5 esignature user ID: sas00403

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.292	85	520190	47.548
2) Chloromethane	(1)	1.365	50	571706	51.236
3) 1,3-Butadiene	(1)	1.462	39	322864	45.950
4) Vinyl Chloride	(1)	1.462	62	542281	50.272
5) Bromomethane	(1)	1.682	94	337290	49.375
6) Chloroethane	(1)	1.743	64	326872	51.275
7) Dichlorofluoromethane	(1)	1.895	67	672720	48.318
8) Trichlorofluoromethane	(1)	1.968	101	549971	46.555
9) n-Pentane	(1)	2.121	43	57456	4.423
12) Ethyl Ether	(1)	2.121	59	281209	46.355
13) Freon 123a	(1)	2.151	67	423392MA	48.330
14) Acrolein	(4)	2.230	56	928257	424.725
15) 1,1-Dichloroethene	(1)	2.328	96	335896	47.651
17) Freon 113	(1)	2.346	101	328671	46.327
16) Acetone	(1)	2.352	43	272101M	121.416
18) Methyl Iodide	(1)	2.468	142	555792	47.833
21) Carbon Disulfide	(1)	2.535	76	940647	48.332
22) Allyl Chloride	(1)	2.627	41	526649	46.408
23) Methyl Acetate	(1)	2.633	43	300183	50.219
24) Methylene Chloride	(1)	2.743	84	345634	46.882
25)*t-Butyl Alcohol-d10	(4)	2.761	65	194517	250.000
26) t-Butyl Alcohol	(4)	2.834	59	228368M	244.898
27) Acrylonitrile	(1)	2.956	53	185702	55.314
28) trans-1,2-Dichloroethene	(1)	2.980	96	354782	48.353
29) Methyl Tertiary Butyl Ether	(1)	2.986	73	1000932	49.414
31) n-Hexane	(1)	3.230	57	505389	44.349
33) 1,1-Dichloroethane	(1)	3.370	63	643404	48.998
34) di-Isopropyl Ether	(1)	3.438	45	1095655	49.524
35) 2-Chloro-1,3-Butadiene	(1)	3.456	53	512685	50.183
36) 1,2-Dichloroethene (total)	(1)		96	722459	95.812
37) Ethyl t-Butyl Ether	(1)	3.785	59	1032344	49.988
39) cis-1,2-Dichloroethene	(1)	3.919	96	367677	47.459
40) 2-Butanone	(1)	3.925	43	461440	122.714
41) 2,2-Dichloropropane	(1)	3.937	77	487153	49.746
42) Propionitrile	(4)	3.986	54	357560	232.724
44) Methacrylonitrile	(1)	4.133	67	473754	140.271
45) Bromochloromethane	(1)	4.151	128	164257	44.631
46) Tetrahydrofuran	(4)	4.187	71	128238	89.923
47) Chloroform	(1)	4.230	83	559161	48.081

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.

PTL86 0512

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on 08/26/2010 at 06:21.
Target 3.5 esignature user ID: sas00403

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
51)$Dibromofluoromethane(mz111)	(1)	4.382	111	280900	49.193
50)$Dibromofluoromethane	(1)	4.382	113	276024	49.613
52) 1,1,1-Trichloroethane	(1)	4.413	97	516007	46.065
53) Cyclohexane	(1)	4.468	56	644779	46.886
55) 1,1-Dichloropropene	(1)	4.565	75	518632	48.997
56) Carbon Tetrachloride	(1)	4.571	117	398624	49.031
58) Isobutyl Alcohol	(4)	4.693	41	191150	606.059
60)$1,2-Dichloroethane-d4(mz104)	(1)	4.712	104	46396	48.775
59)$1,2-Dichloroethane-d4	(1)	4.712	102	73313	49.628
63) Benzene	(1)	4.767	78	1452287	47.971
65) 1,2-Dichloroethane	(1)	4.785	62	423178	48.844
67) t-Amyl Methyl Ether	(1)	4.888	73	981703	48.984
68) n-Heptane	(1)	5.041	43	501332	44.221
69)*Fluorobenzene	(1)	5.047	96	1244258	50.000
71) n-Butanol	(4)	5.358	56	330004	1183.334
72) Trichloroethene	(1)	5.413	95	371434	47.724
74) Methylcyclohexane	(1)	5.614	83	629162	43.645
76) 1,2-Dichloropropane	(1)	5.644	63	365087	47.682
78) Dibromomethane	(1)	5.766	93	208566	47.821
79) Methyl Methacrylate	(1)	5.779	69	336486	52.398
80) 1,4-Dioxane	(4)	5.791	88	63128	699.269
81) Bromodichloromethane	(1)	5.931	83	387346	47.244
82) 2-Nitropropane	(1)	6.175	41	165739	112.750
83) 2-Chloroethyl Vinyl Ether	(1)	6.260	63	263658	50.389
87) cis-1,3-Dichloropropene	(1)	6.406	75	512487	47.130
88) 4-Methyl-2-Pentanone	(1)	6.577	43	950104	113.805
90)$Toluene-d8	(2)	6.687	98	1247051	50.848
89)$Toluene-d8(mz100)	(2)	6.687	100	803773	50.672
91) Toluene	(2)	6.760	92	934727	48.067
92) trans-1,3-Dichloropropene	(2)	7.004	75	471988	47.470
93) Ethyl Methacrylate	(2)	7.120	69	410525	49.917
94) 1,1,2-Trichloroethane	(2)	7.199	97	305902	48.716
96) Tetrachloroethene	(2)	7.339	166	415162	45.917
97) 1,3-Dichloropropane	(2)	7.370	76	542475	48.917
98) 2-Hexanone	(2)	7.467	43	686550	124.495
100) Dibromochloromethane	(2)	7.595	129	293658	47.960
101) 1,2-Dibromoethane	(2)	7.693	107	306128	47.941
103)*Chlorobenzene-d5	(2)	8.126	117	886869	50.000
104) Chlorobenzene	(2)	8.150	112	1012603	48.103

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

PTL06 0513

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Target 3.5 esignature user ID: sas00403

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
105) Xylene (Total)	(2)		106	2131984	147.193
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	295152	47.077
107) Ethylbenzene	(2)	8.254	91	1826321	49.015
108) m+p-Xylene	(2)	8.363	106	1441611	98.471
110) o-Xylene	(2)	8.693	106	690373	48.723
111) Styrene	(2)	8.705	104	1107848	49.518
112) Bromoform	(2)	8.851	173	212913	47.429
113) Isopropylbenzene	(2)	8.991	105	1842691	49.407
115) Cyclohexanone	(4)	9.058	55	212859	694.831
116)$4-Bromofluorobenzene	(2)	9.107	95	443212	50.940
117)$4-Bromofluorobenzene(mz174)	(2)	9.113	174	368743	49.300
118) Bromobenzene	(3)	9.223	156	405657	46.673
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	477257	50.432
120) 1,2,3-Trichloropropane	(3)	9.260	110	143456	51.388
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	377174M	132.984
122) n-Propylbenzene	(3)	9.314	91	2209721	49.612
123) 2-Chlorotoluene	(3)	9.375	126	423064	47.634
124) 1,3,5-Trimethylbenzene	(3)	9.449	105	1486505	48.867
125) 4-Chlorotoluene	(3)	9.455	126	425476	47.273
127) tert-Butylbenzene	(3)	9.686	134	361827	47.813
128) Pentachloroethane	(3)	9.698	167	212605	46.945
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	1544505	48.976
132) sec-Butylbenzene	(3)	9.845	105	1962323	49.097
133) 1,3-Dichlorobenzene	(3)	9.924	146	800107	47.539
134) p-Isopropyltoluene	(3)	9.948	119	1687720	48.568
135)*1,4-Dichlorobenzene-d4	(3)	9.973	152	491056	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	809628	47.552
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	1443165	46.722
138) Benzyl Chloride	(3)	10.083	91	793265	49.267
139) 1,3-Diethylbenzene	(3)	10.162	105	936387	46.719
140) 1,4-Diethylbenzene	(3)	10.217	105	872108	46.791
141) n-Butylbenzene	(3)	10.235	92	837731	48.174
142) 1,2-Dichlorobenzene	(3)	10.247	146	767956	47.699
143) 1,2-Diethylbenzene	(3)	10.302	105	868521A	46.480
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	98071	56.086
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	548837	46.825
147) Hexachlorobutadiene	(3)	11.430	225	243352	44.614
148) Naphthalene	(3)	11.485	128	1777549	52.604
149) 1,2,3-Trichlorobenzene	(3)	11.643	180	519743	47.787

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0514

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
152) 2-Methylnaphthalene	(3)	12.198	142	879253M	49.250

M = Compound was manually integrated.

PTL06 0515

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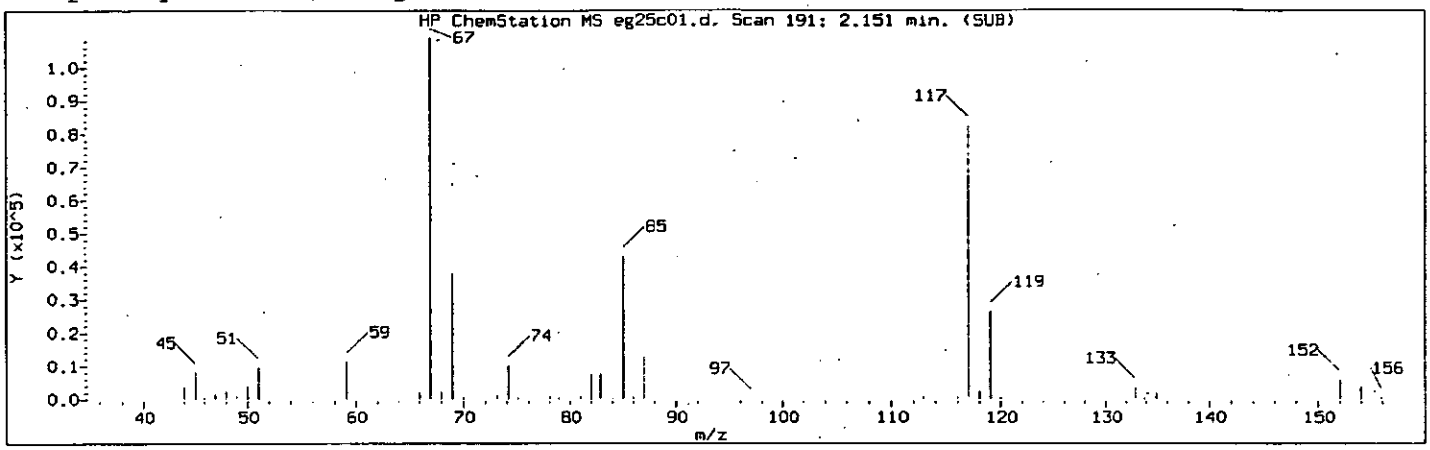
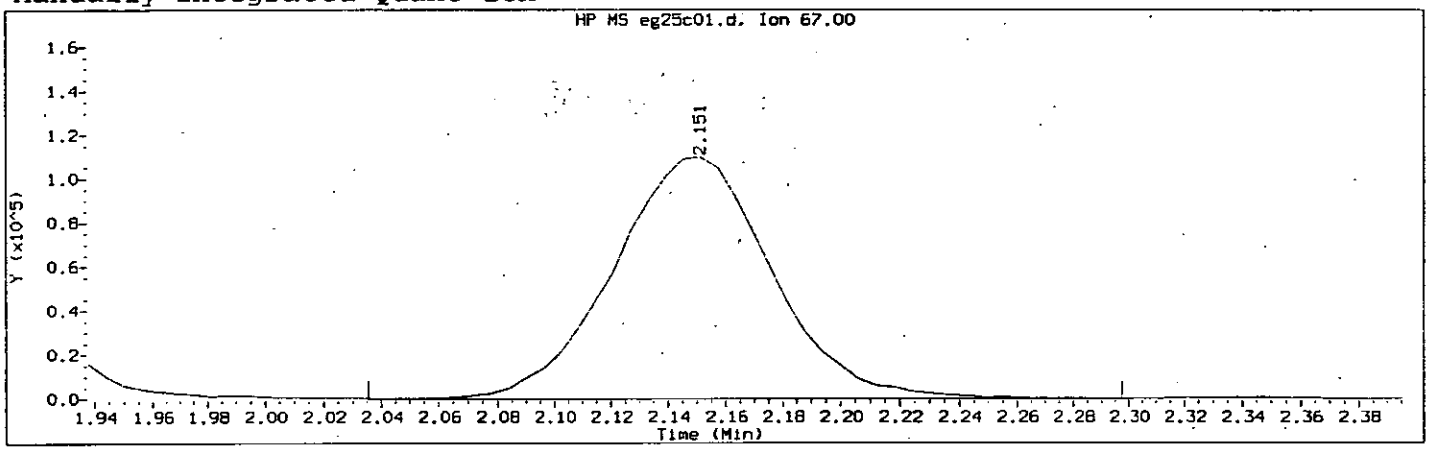
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 13		
Compound Name	: Freon 123a		
Scan Number	: 191		
Retention Time (minutes)	: 2.151		
Quant Ion	: 67.00		
Area (flag)	: 423392MA		
On-Column Amount (ng)	: 48.3301		
Integration start scan	: 171	Integration stop scan:	214
Y at integration start	: 0	Y at integration end:	0

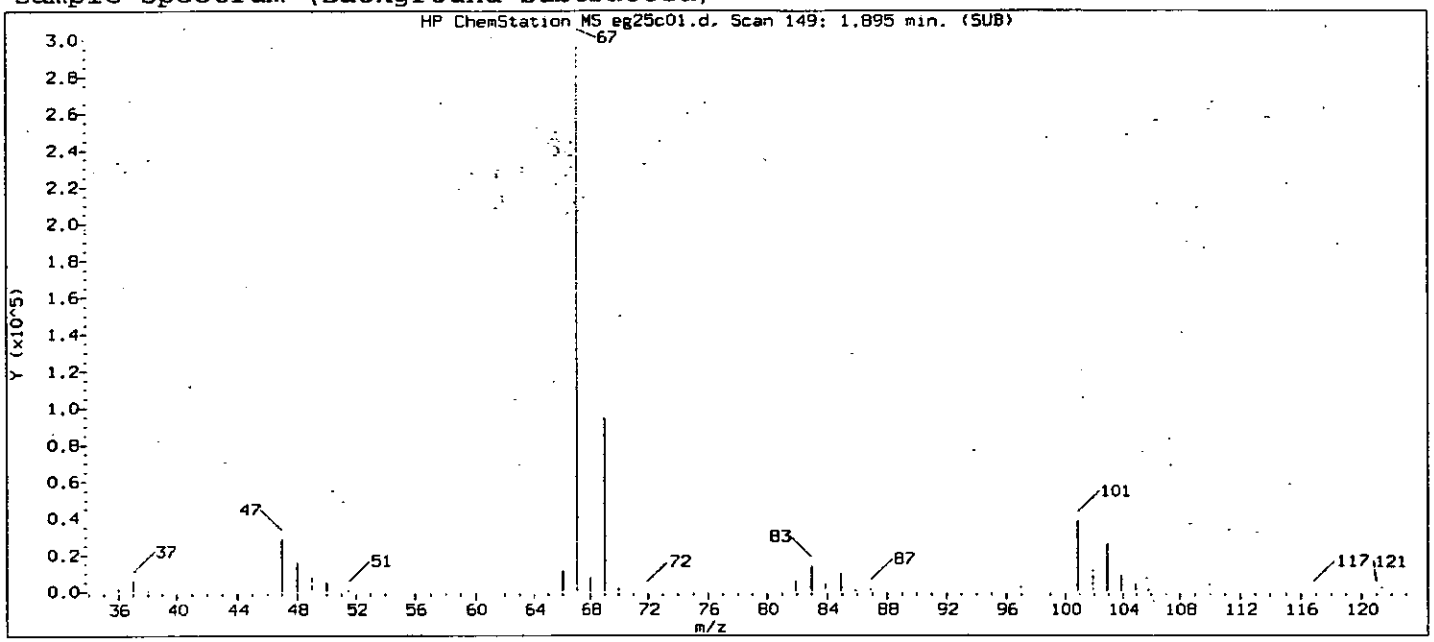
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21. Target 3.5 esignature user ID: sas00403

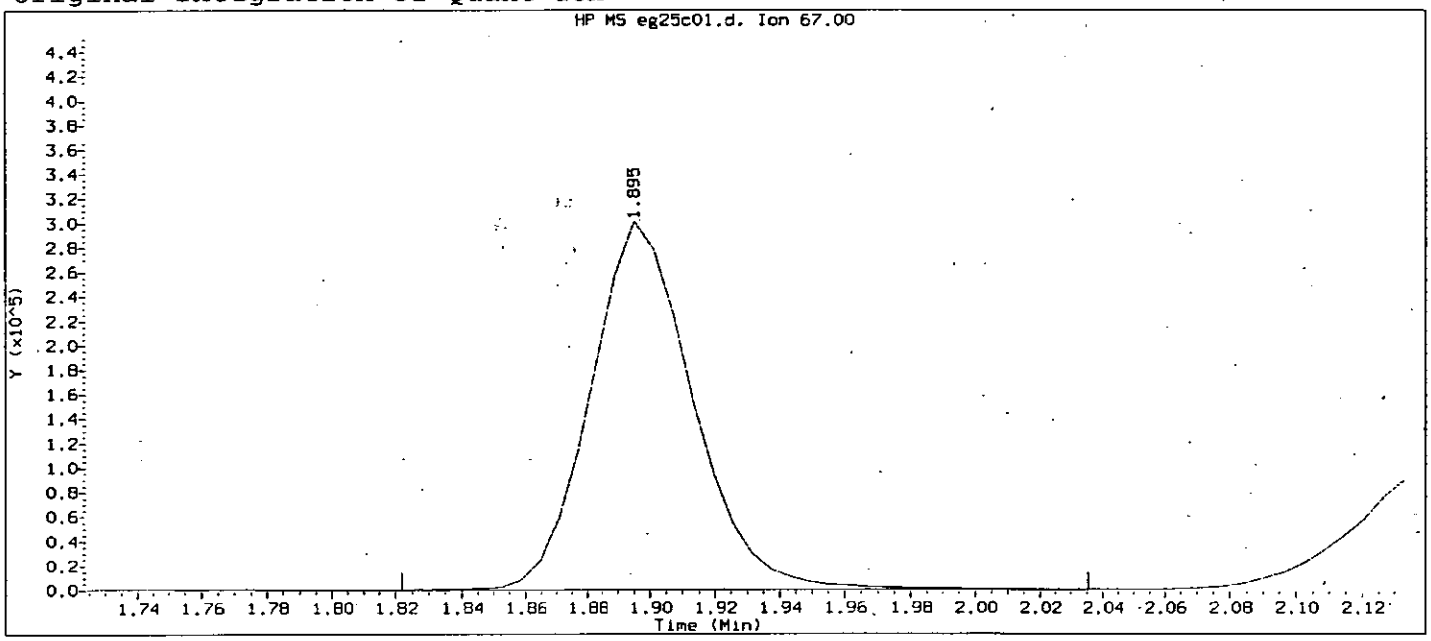
PTL06 0516

GC/MS audit/management approval: HB996 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:29
Date, time and analyst ID of latest file update: 25-Aug-2010 09:29 jml01693

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 13
Compound Name : Freon 123a
Scan Number : 149
Retention Time (minutes): 1.895
Quant Ion : 67.00
Area : 671996
On-column Amount (ng) : 76.7082
Integration start scan : 136 Integration stop scan: 171
Y at integration start : 0 Y at integration end: 113

PTL86 8517

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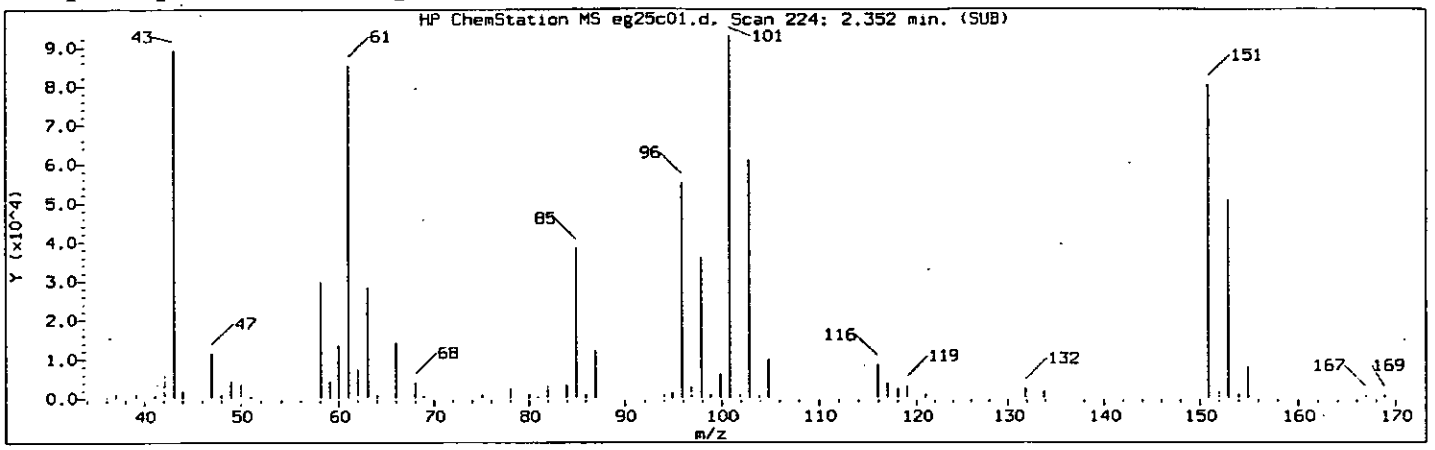
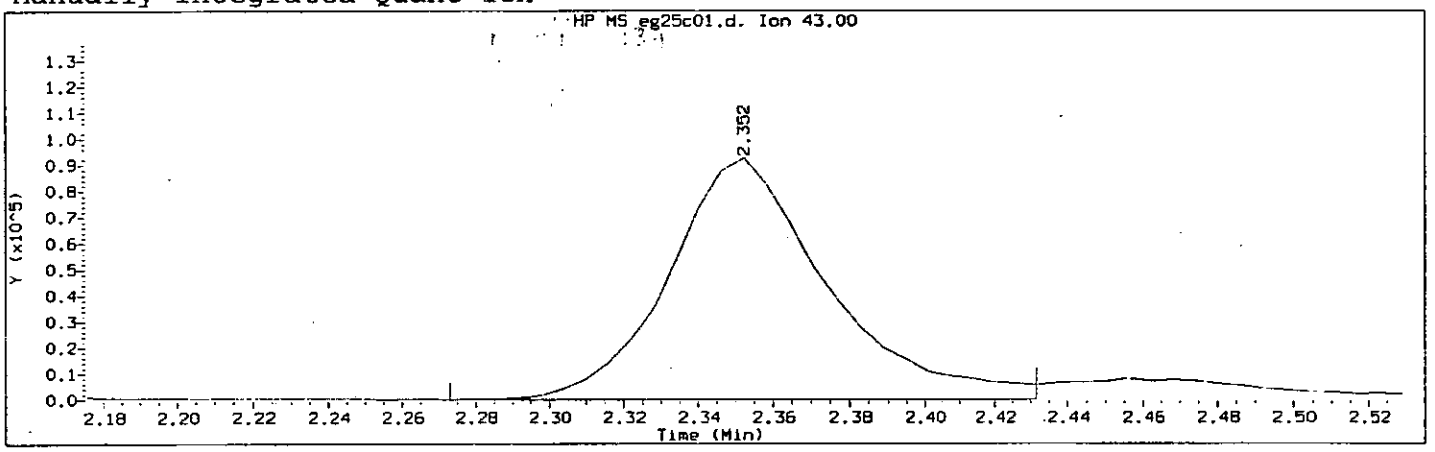
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 16		
Compound Name	: Acetone		
Scan Number	: 224		
Retention Time (minutes)	: 2.352		
Quant Ion	: 43.00		
Area (flag)	: 272101M		
On-Column Amount (ng)	: 121.4163		
Integration start scan	: 210	Integration stop scan:	236
Y at integration start	: 0	Y at integration end:	0

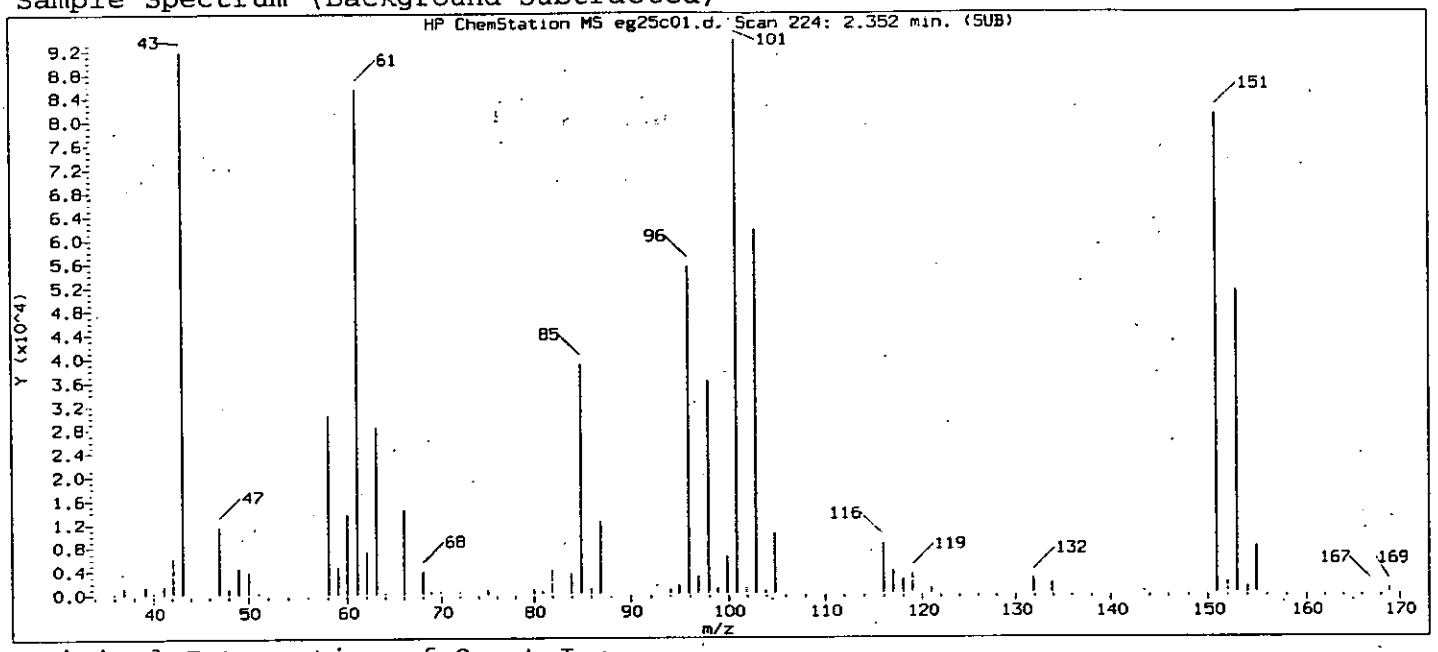
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21. Target 3.5 esignature user ID: sas00403

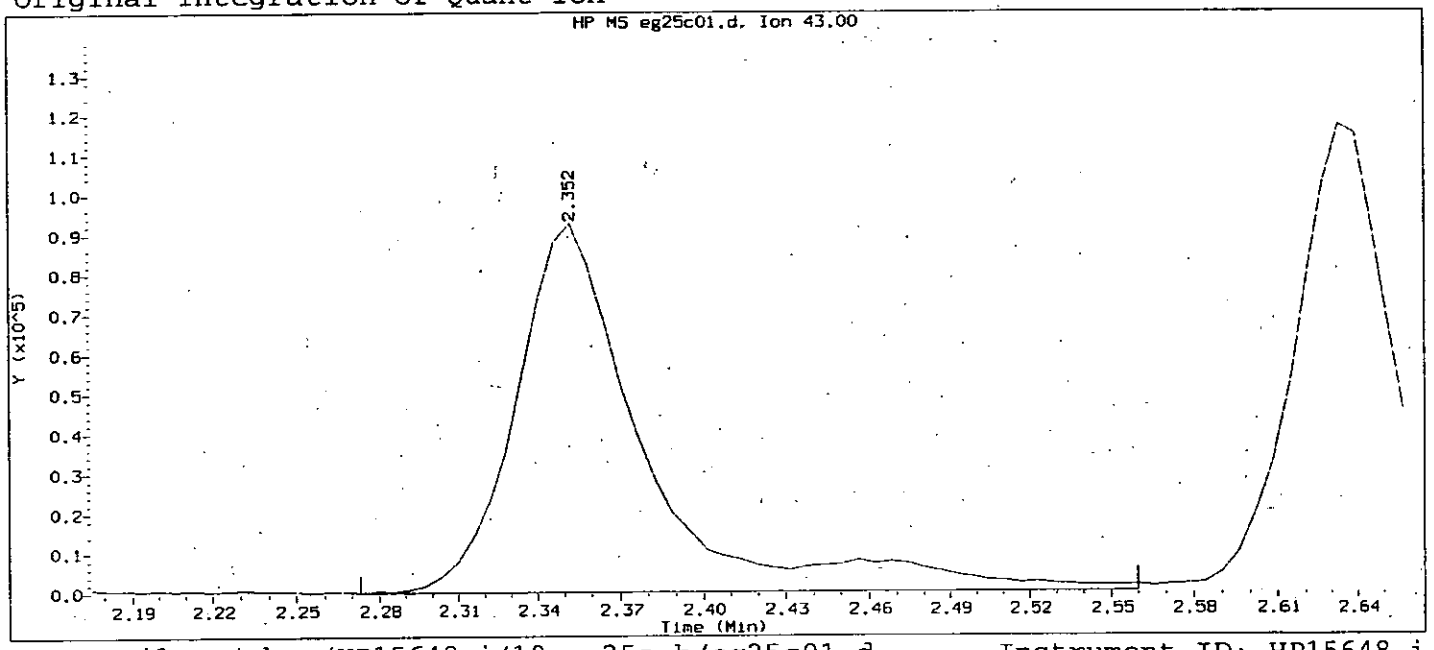
PTL86 8518

GC/MS audit/management approval: HB 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:29
Date, time and analyst ID of latest file update: 25-Aug-2010 09:29 jml01693

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 16
Compound Name : Acetone
Scan Number : 224
Retention Time (minutes): 2.352
Quant Ion : 43.00
Area : 304576
On-column Amount (ng) : 135.9074
Integration start scan : 210 Integration stop scan: 257
Y at integration start : 0 Y at integration end: 0

PTL06 0519

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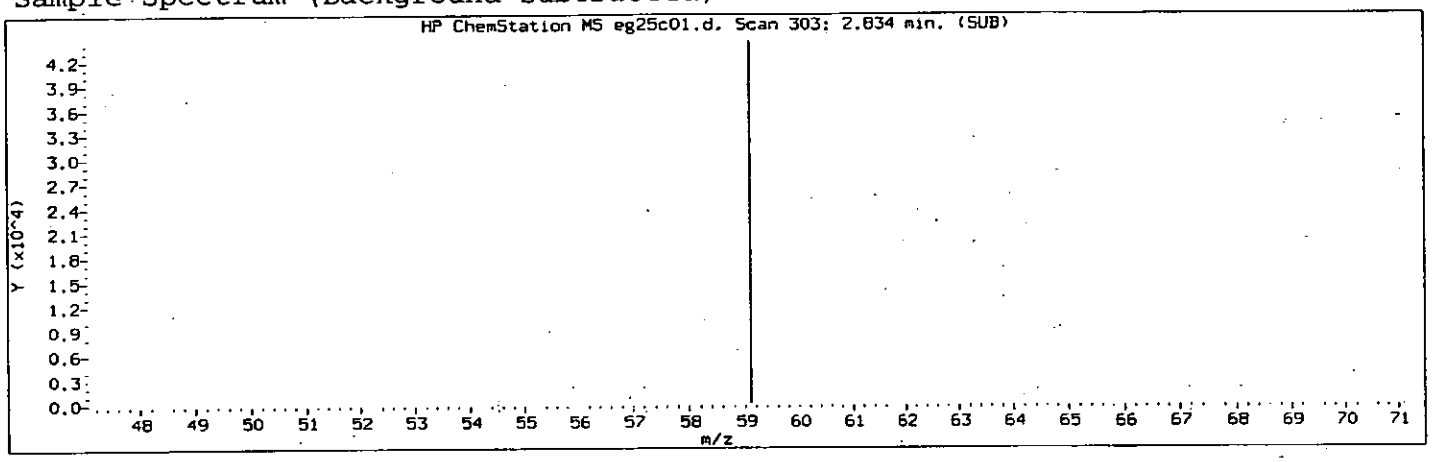
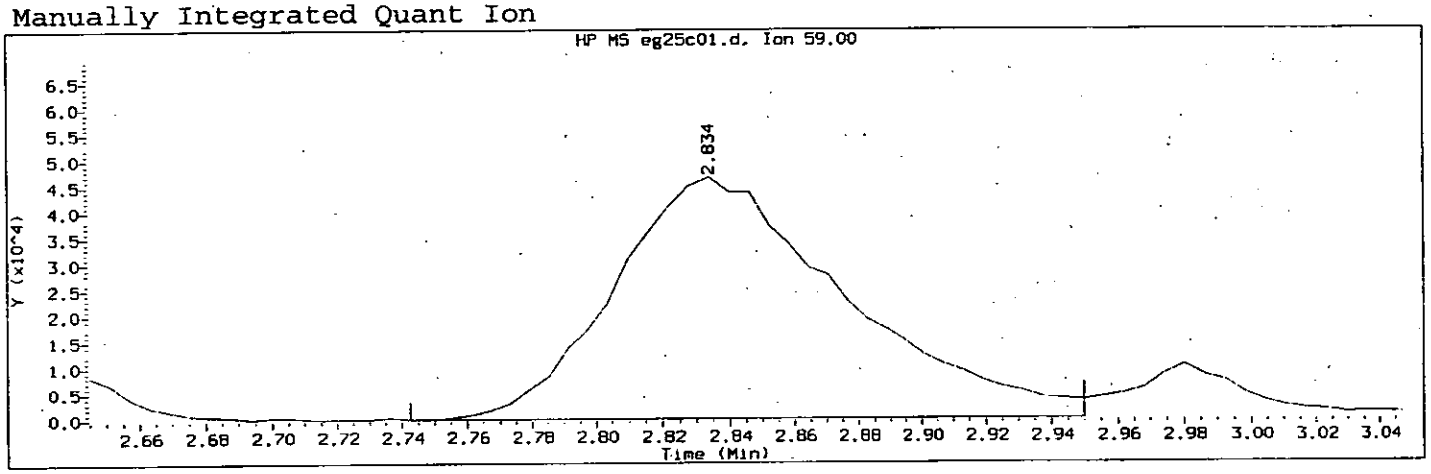
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 26		
Compound Name	: t-Butyl Alcohol		
Scan Number	: 303		
Retention Time (minutes)	: 2.834		
Quant Ion	: 59.00		
Area (flag)	: 228368M		
On-Column Amount (ng)	: 244.8985		
Integration start scan	: 287	Integration stop scan:	321
Y at integration start	: 0	Y at integration end:	0

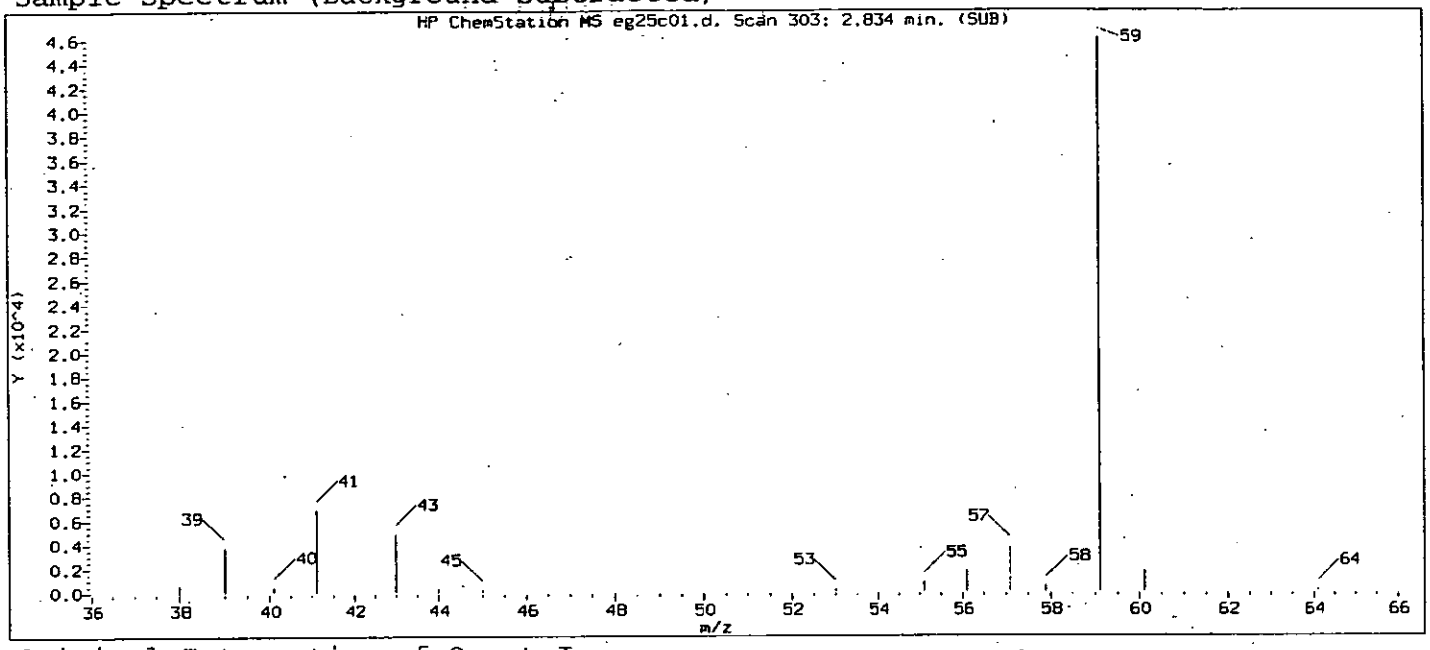
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21. Target 3.5 esignature user ID: sas00403

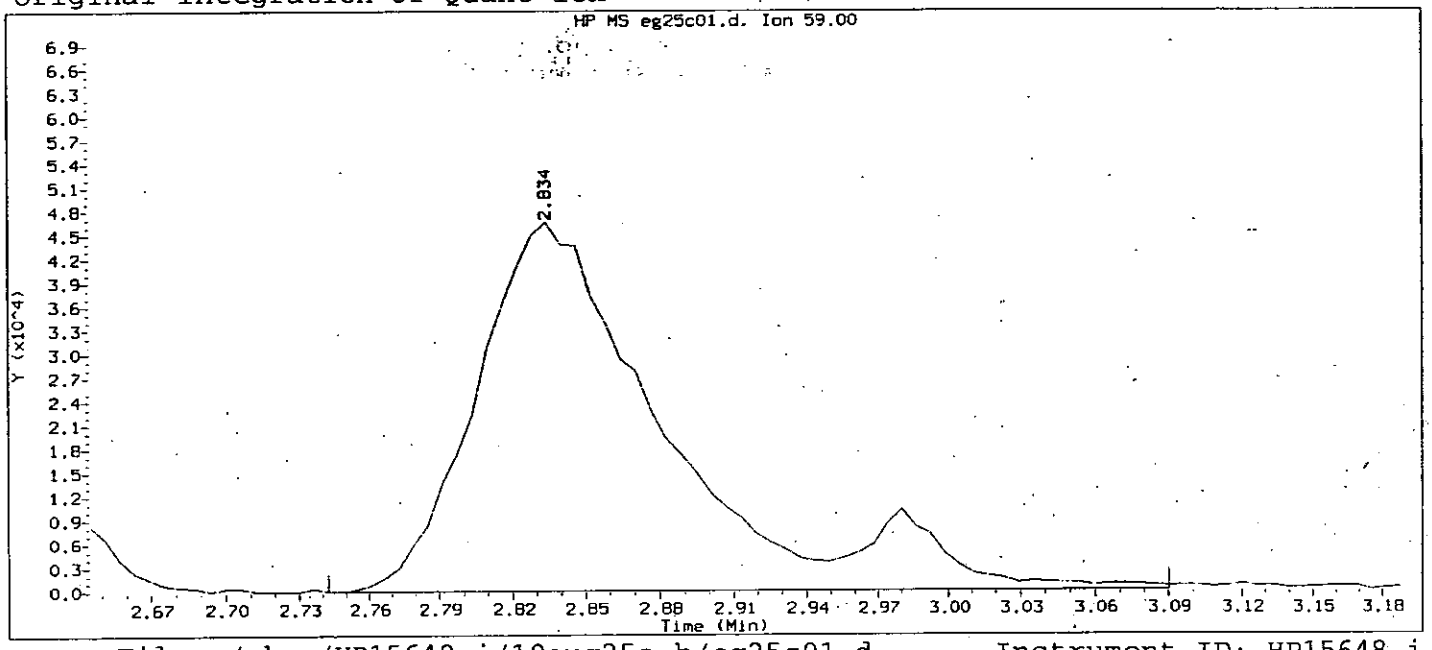
PTL06 0528

GC/MS audit/management approval: MB 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:29
Date, time and analyst ID of latest file update: 25-Aug-2010 09:29 jml01693

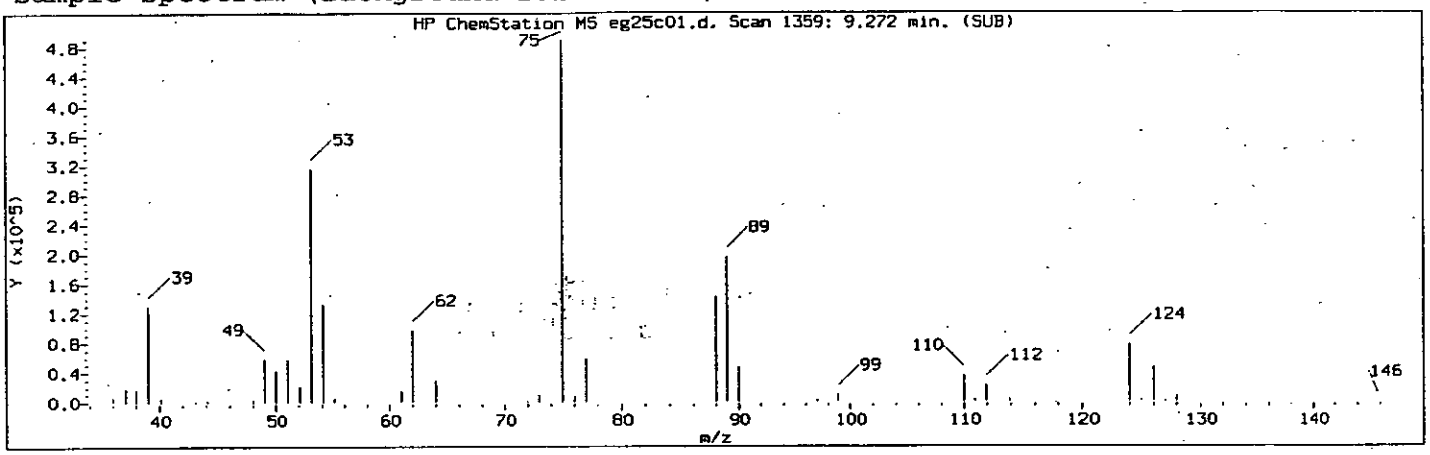
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 303
Retention Time (minutes) : 2.834
Quant Ion : 59.00
Area : 254495
On-column Amount (ng) : 272.9172
Integration start scan : 287 Integration stop scan: 344
Y at integration start : 0 Y at integration end: 0

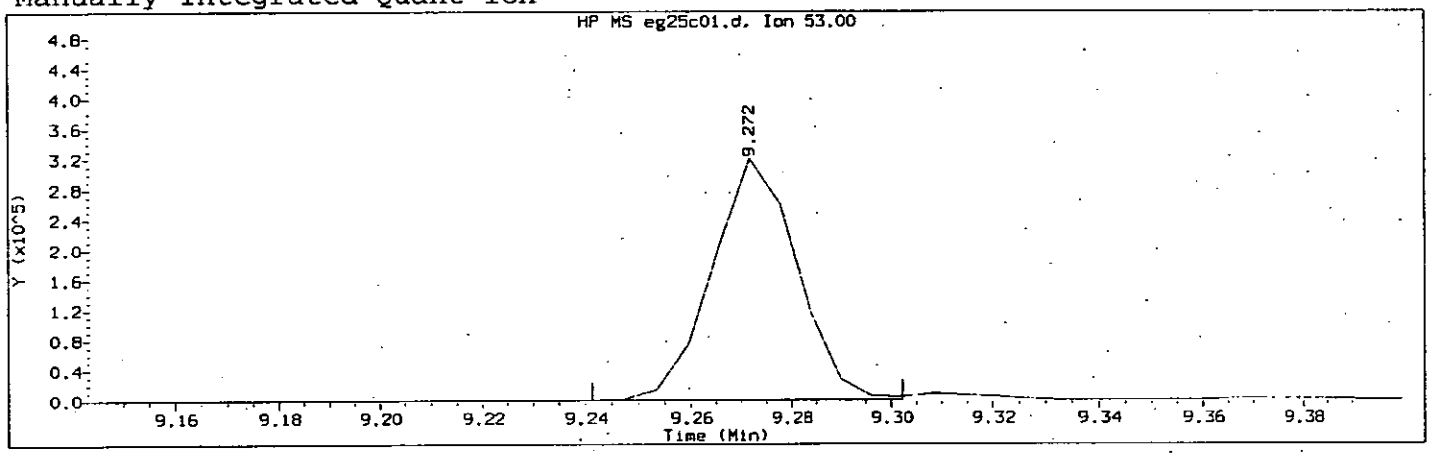
PTL86 8521

Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area (flag) : 377174M
On-Column Amount (ng) : 132.9840
Integration start scan : 1353 Integration stop scan: 1363
Y at integration start : 0 Y at integration end: 0

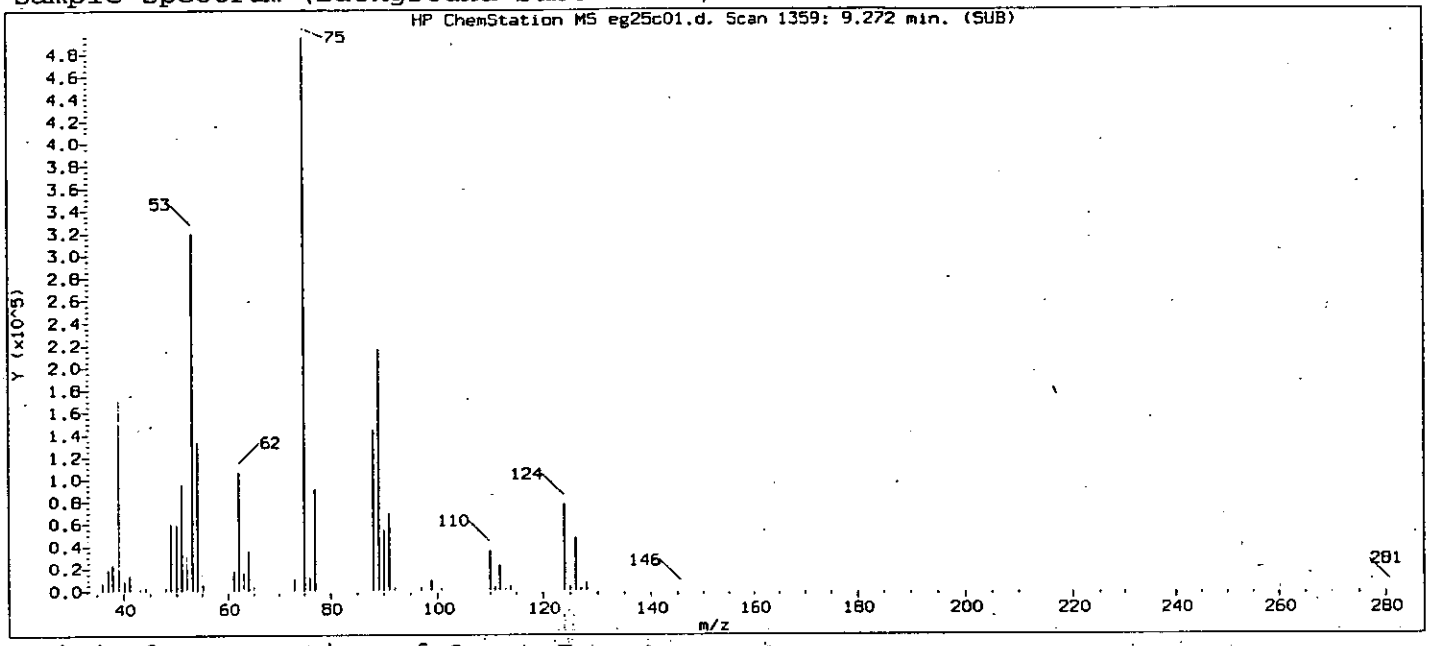
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21. Target 3.5 esignature user ID: sas00403

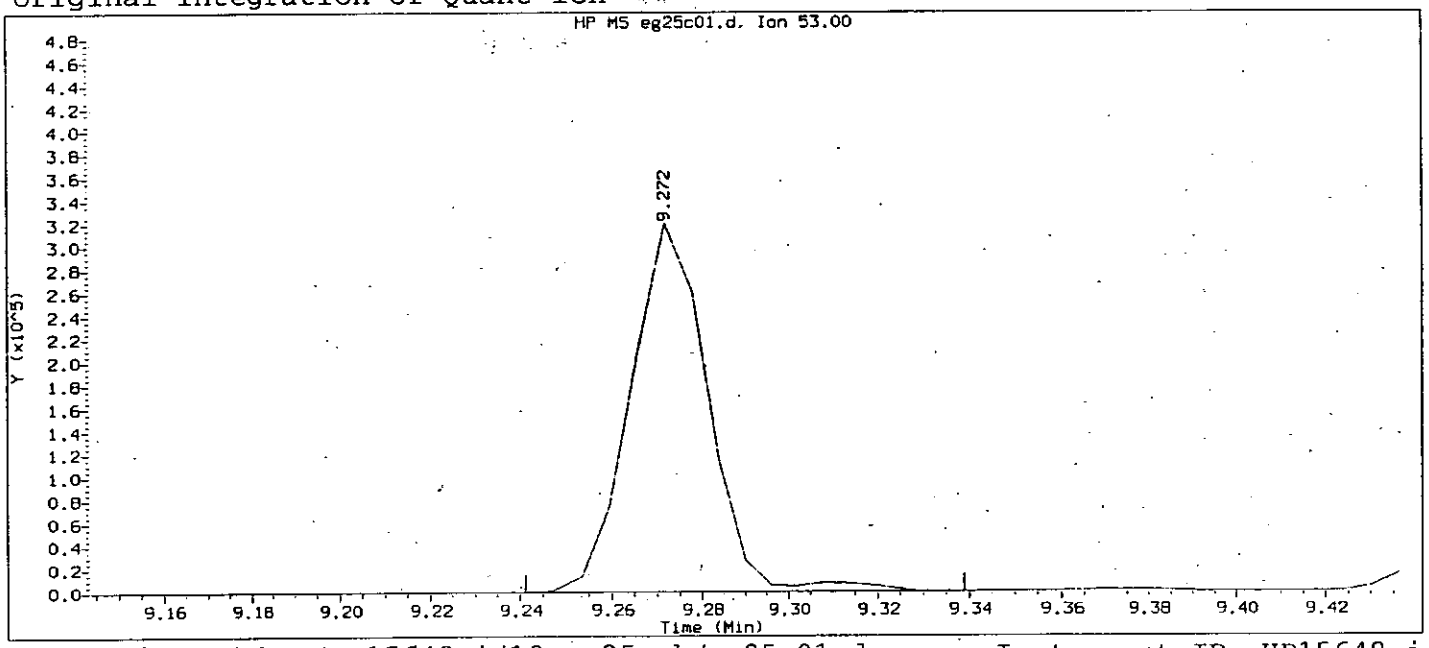
PTL86 8522

GC/MS audit/management approval: HB1996 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:29
Date, time and analyst ID of latest file update: 25-Aug-2010 09:29 jml01693

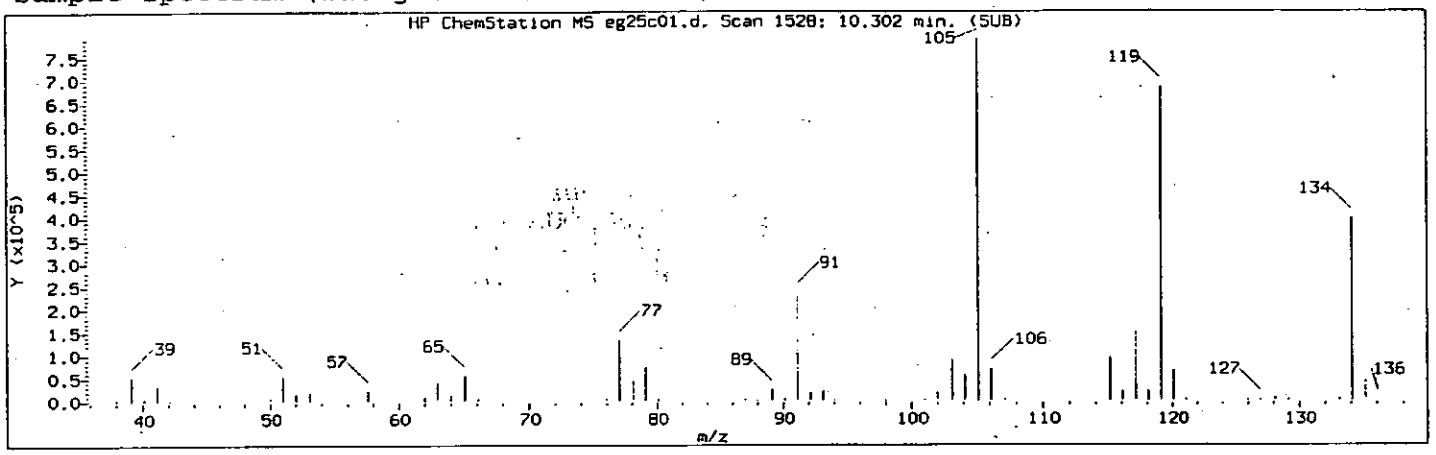
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 385278
On-column Amount (ng) : 135.8413
Integration start scan : 1353 Integration stop scan: 1369
Y at integration start : 0 Y at integration end: 0

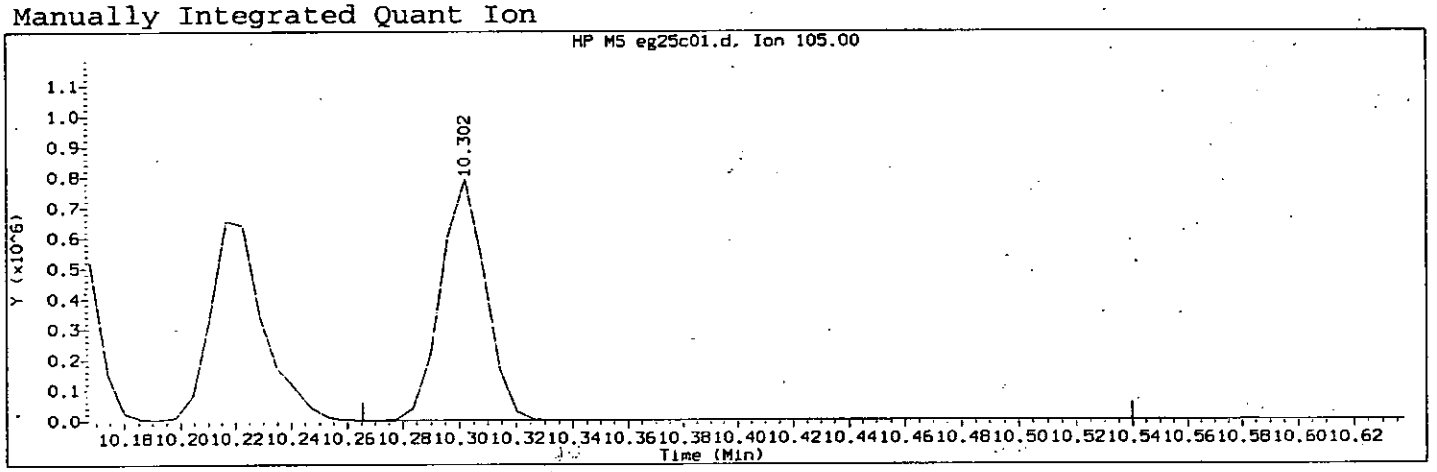
PTL06 0523

Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 143
Compound Name	: 1,2-Diethylbenzene
Scan Number	: 1528
Retention Time (minutes)	: 10.302
Quant Ion	: 105.00
Area (flag)	: 868521A
On-Column Amount (ng)	: 46.4801
Integration start scan	: 1521 Integration stop scan: 1566
Y at integration start	: 0 Y at integration end: 0

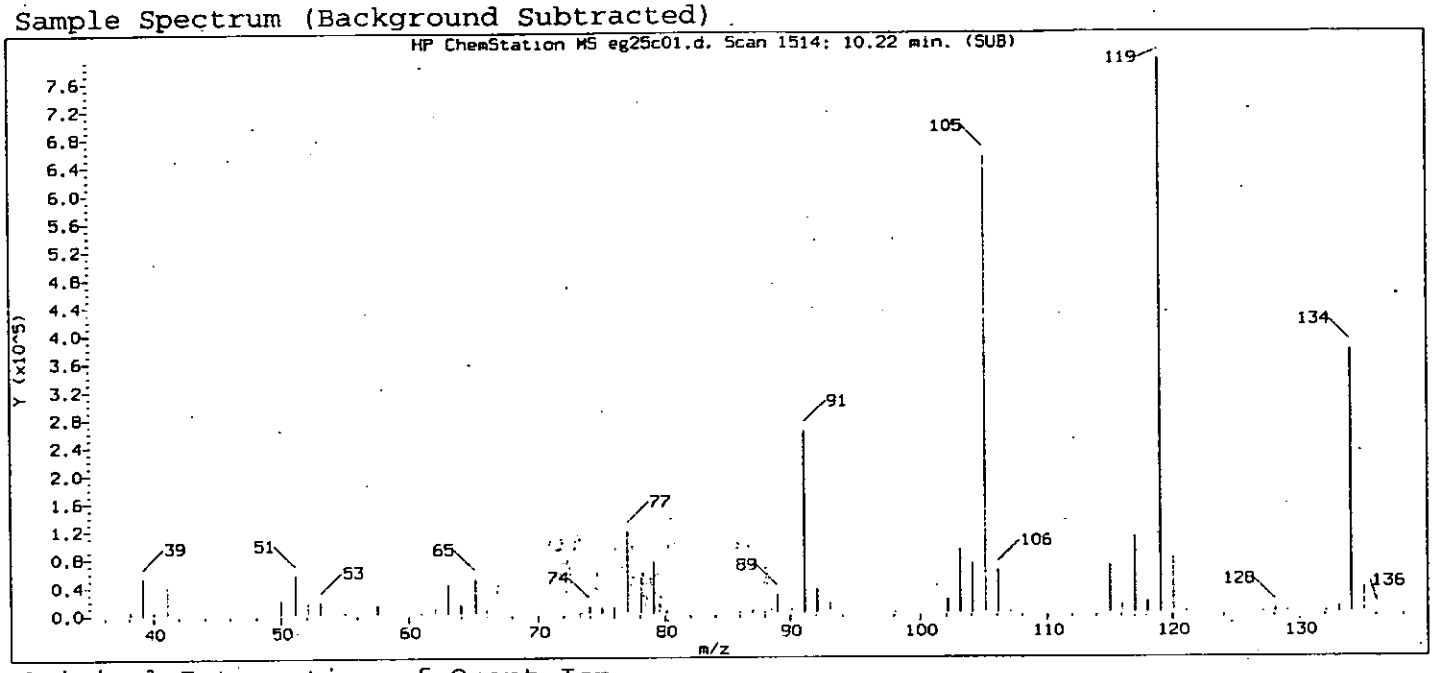
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21. Target 3.5 esignature user ID: sas00403

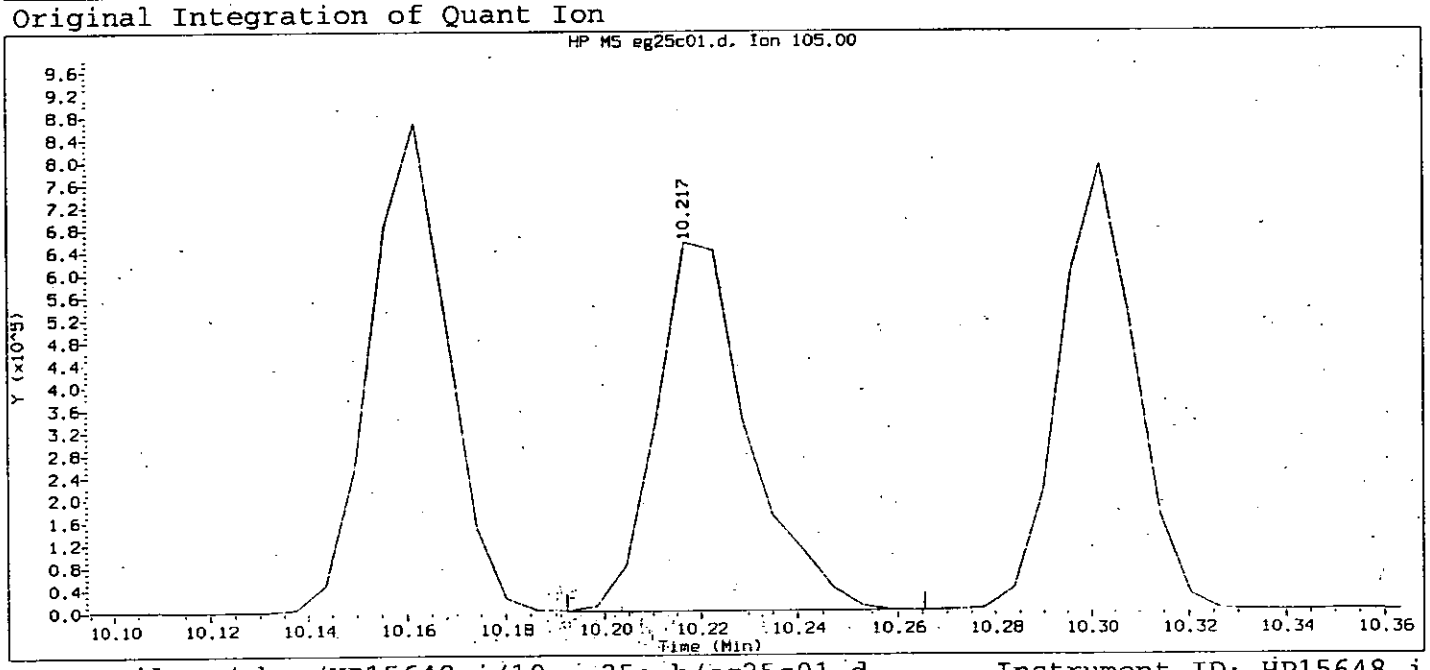
PTL86 8524

GC/MS audit/management approval: HB1886 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:29
Date, time and analyst ID of latest file update: 25-Aug-2010 09:29 jml01693

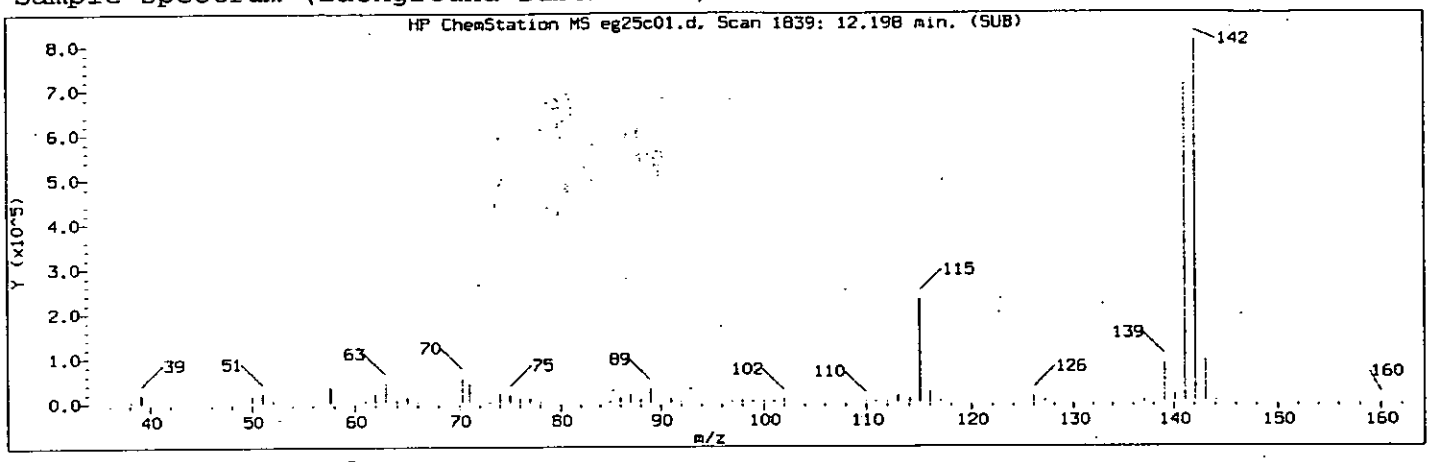
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 143
Compound Name : 1,2-Diethylbenzene
Scan Number : 1514
Retention Time (minutes): 10.217
Quant Ion : 105.00
Area : 872108
On-column Amount (ng) : 46.6721
Integration start scan : 1509 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

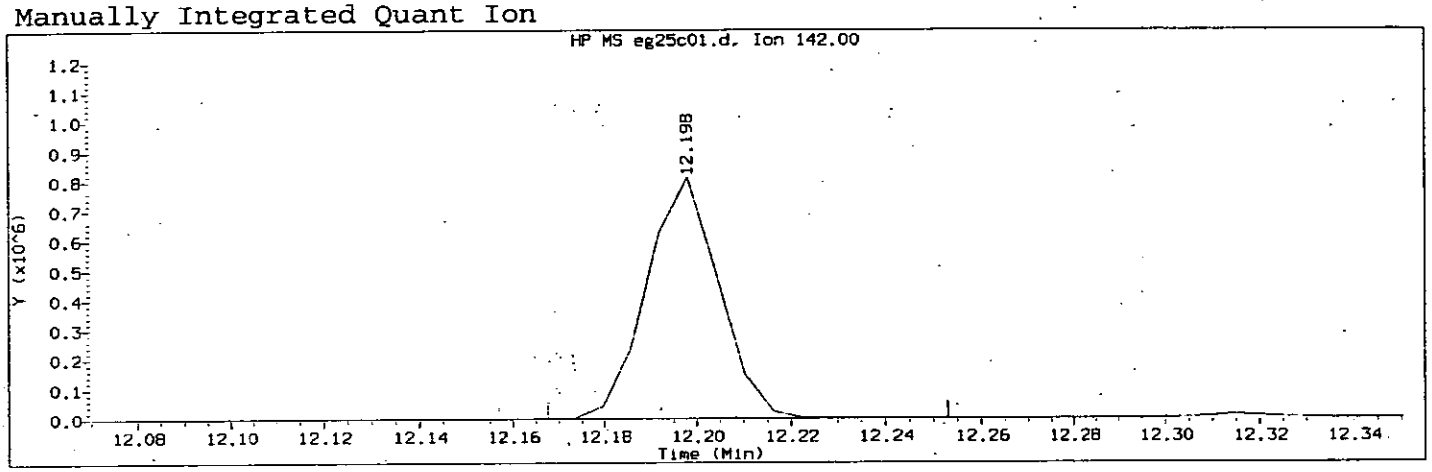
PTL06 0525

Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 26-Aug-2010 06:21 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 152
Compound Name : 2-Methylnaphthalene
Scan Number : 1839
Retention Time (minutes): 12.198
Quant Ion : 142.00
Area (flag) : 879253M
On-Column Amount (ng) : 49.2498
Integration start scan : 1833 Integration stop scan: 1847
Y at integration start : 0 Y at integration end: 0

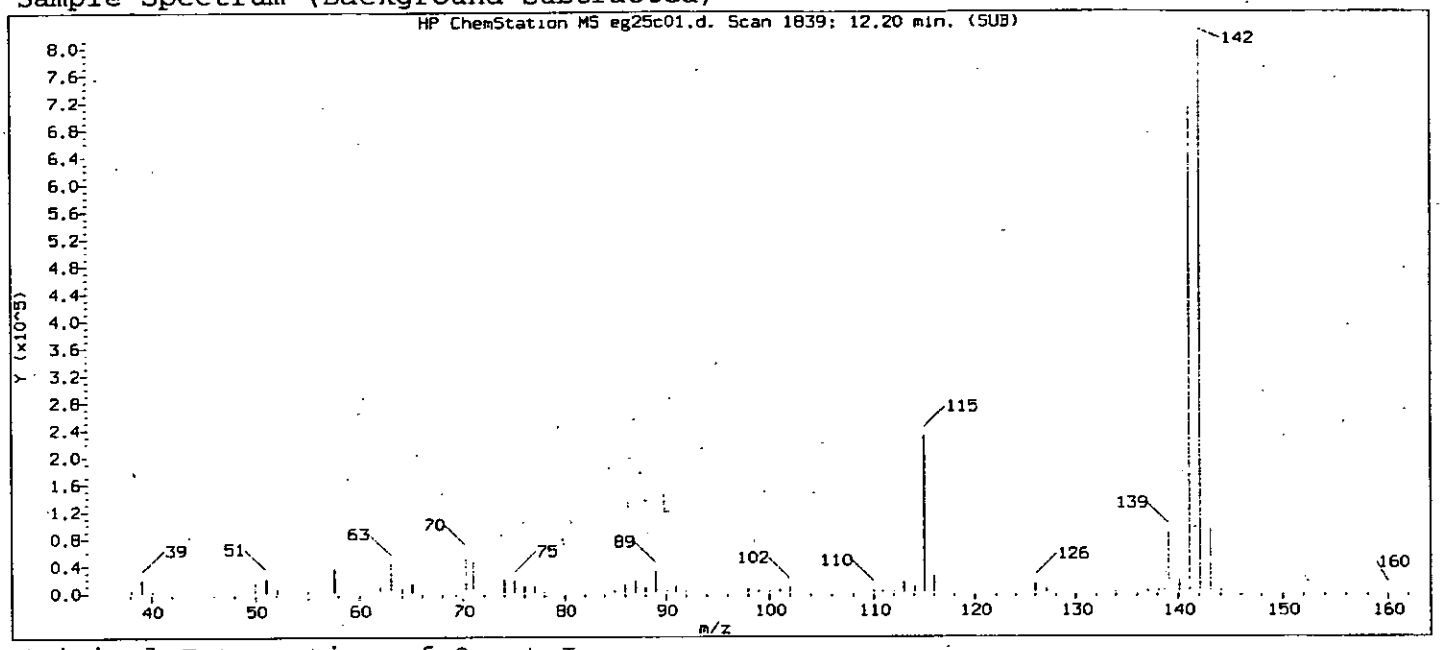
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21. Target 3.5 esignature user ID: sas00403

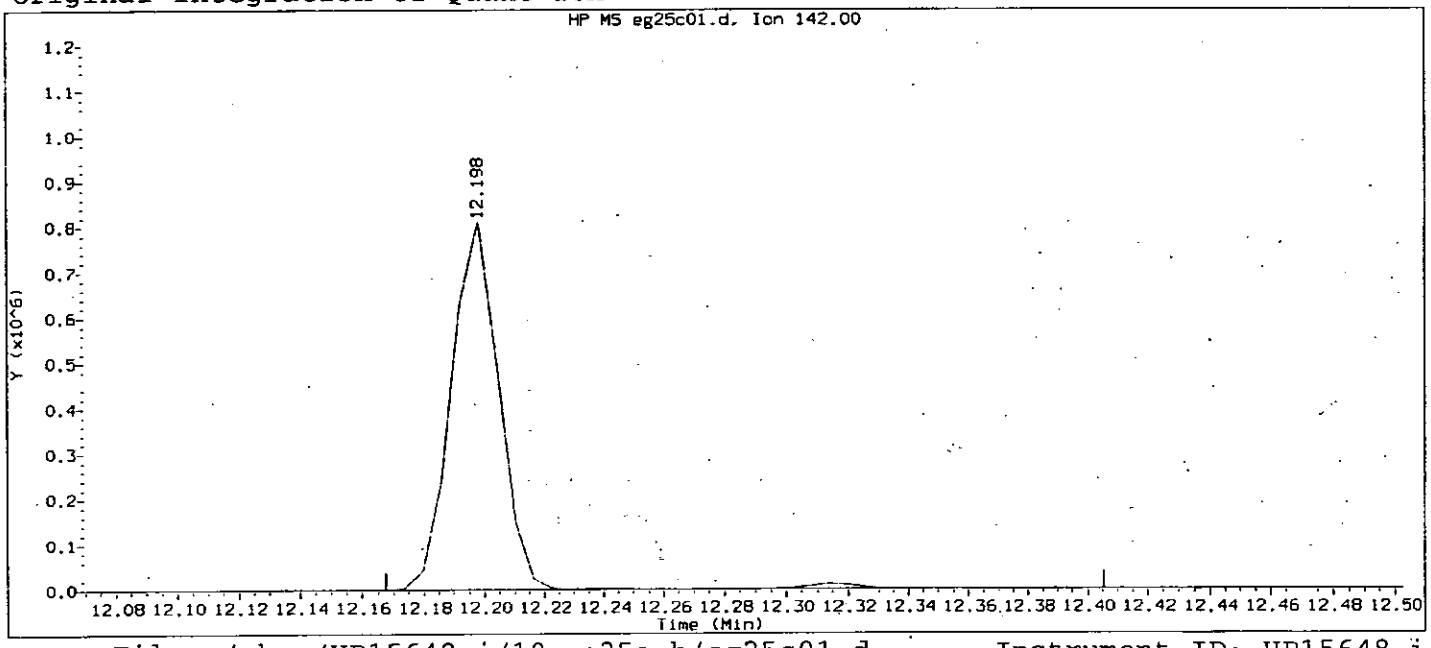
PTL86 8526

GC/MS audit/management approval: MB 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25c01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 08:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260WI
Calibration date and time: 25-AUG-2010 09:29
Date, time and analyst ID of latest file update: 25-Aug-2010 09:29 jml01693

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 152
Compound Name : 2-Methylnaphthalene
Scan Number : 1839
Retention Time (minutes): 12.198
Quant Ion : 142.00
Area : 893137
On-column Amount (ng) : 50.0275
Integration start scan : 1833 Integration stop scan: 1872
Y at integration start : 0 Y at integration end: 0

PTL06 8527

Digitally signed by Stephanie A. Selis on 08/26/2010 at 06:21.
Target 3.5 esignature user ID: sas00403

Raw QC Data

Data File: /chem/HP15648.i/10aug19a.b/eg19t01.d

Date : 19-AUG-2010 14:18

Client ID: 50ng BFB

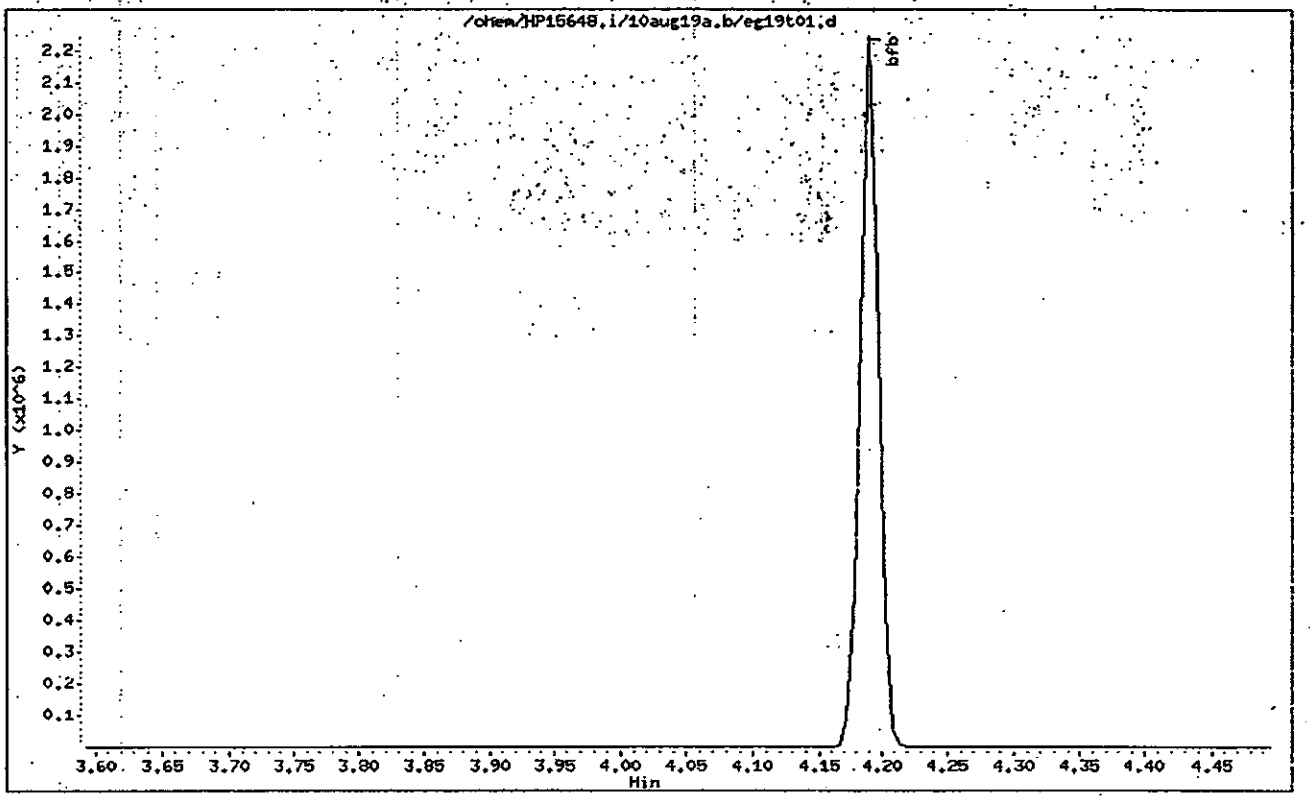
Instrument: HP15648.i

Sample Info: 50ng BFB;BFB MAY12-10;1;3;;;;

Operator: JML01693

Column phase: DB-624

Column diameter: 0.18



PTL86 8529

Digitally signed by Jason M. Long on 08/19/2010 at 14:21.
Target 3.5 esignature user ID: jml01693

Data File: /chem/HP15648.i/10aug19a.b/eg19t01.d

Date : 19-AUG-2010 14:18

Client ID: 50ng BFB

Instrument: HP15648.i

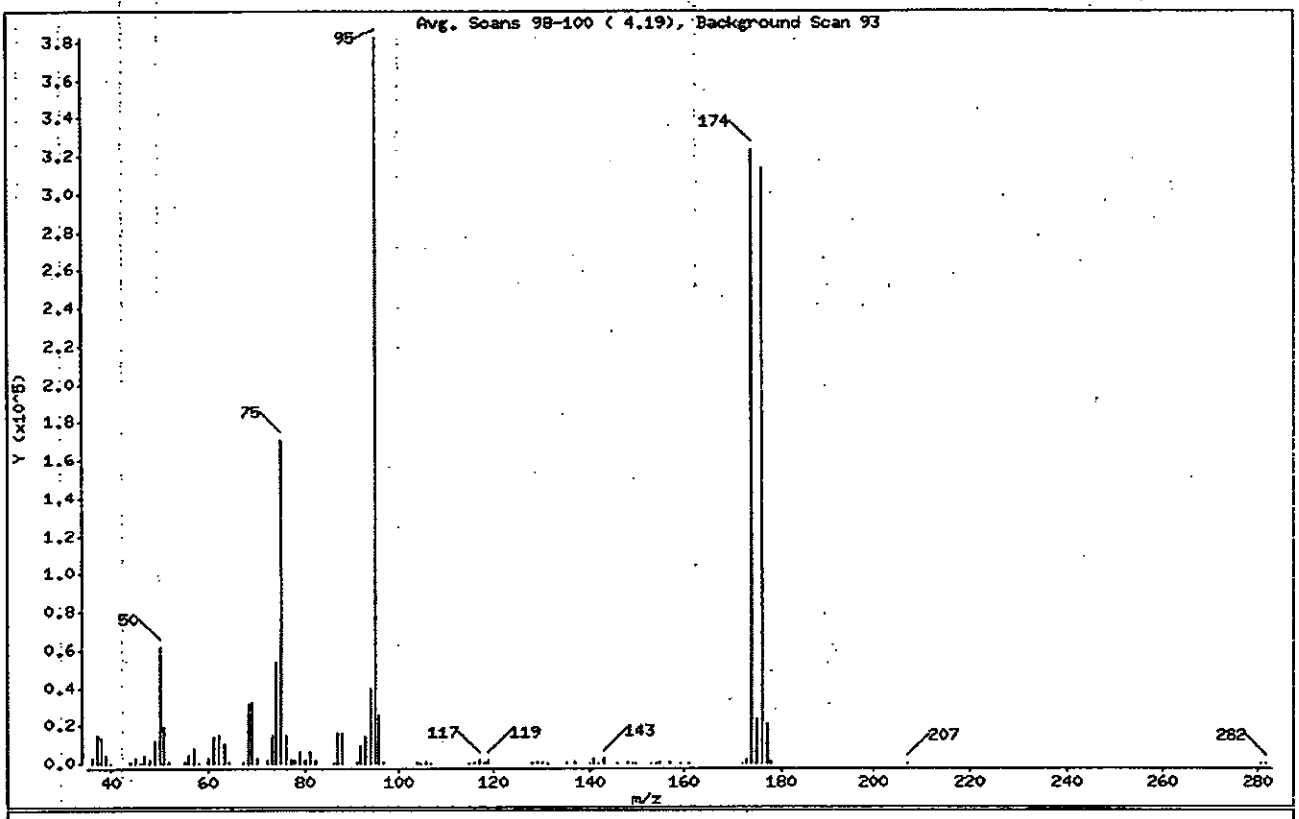
Sample Info: 50ng BFB;BFB HAY12-10;1;3;;;;

Operator: JML01693

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	15.98
75	30.00 - 60.00% of mass 95	44.53
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.55 (0.65)
174	50.00 - 100.00% of mass 95	84.66
175	5.00 - 9.00% of mass 174	6.22 (7.34)
176	95.00 - 101.00% of mass 174	82.14 (97.03)
177	5.00 - 9.00% of mass 176	5.51 (6.71)

Digitally signed by Jason M. Long on 08/19/2010 at 14:21.
Target 3.5 esignature user ID: jml01693

Data File: /chem/HP15648.i/10aug19a.b/eg19t01.d

Date : 19-AUG-2010 14:18

Client ID: 50ng BFB

Instrument: HP15648.i

Sample Info: 50ng BFB;BFB MAY12-10;1;3;;;;

Operator: JML01693

Column phase: DB-624

Column diameter: 0.18

Data File: eg19t01.d

Spectrum: Avg. Scans 98-100 (4.19); Background Scan 93

Location of Maximum: 95.00

Number of points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2702	64.00	865	94.00	39296	143.00	2823
37.00	14983	67.00	947	95.00	382528	146.00	432
38.00	13028	68.00	32080	96.00	25544	148.00	845
39.00	4755	69.00	32936	97.00	713	149.00	89
40.00	263	70.00	2517	104.00	1123	150.00	310
44.00	1265	72.00	1668	105.00	395	153.00	193
45.00	2591	73.00	14618	106.00	1127	154.00	188
46.00	109	74.00	53424	107.00	85	155.00	650
47.00	4552	75.00	170304	115.00	277	157.00	666
48.00	2121	76.00	14681	116.00	942	159.00	346
49.00	12409	77.00	1980	117.00	1696	161.00	225
50.00	61120	78.00	1471	118.00	822	172.00	334
51.00	19032	79.00	6250	119.00	1389	173.00	2119
52.00	795	80.00	1800	128.00	1074	174.00	323840
55.00	659	81.00	6493	129.00	466	175.00	23776
56.00	4543	82.00	1393	130.00	1136	176.00	314176
57.00	7933	86.00	411	131.00	404	177.00	21072
58.00	285	87.00	16156	135.00	447	178.00	551
60.00	2815	88.00	15559	137.00	457	207.00	201
61.00	14017	91.00	1020	140.00	210	281.00	82
62.00	14552	92.00	9251	141.00	2376	282.00	91
63.00	10985	93.00	13847	142.00	380		

Digitally signed by Jason M. Long on 08/19/2010 at 14:21.
Target 3.5 esignature user ID: jml01693

Data File: /chem/HP15648.i/10aug24b.b/eg24t02.d

Date : 24-AUG-2010 15:39

Client ID: 50ng BFB

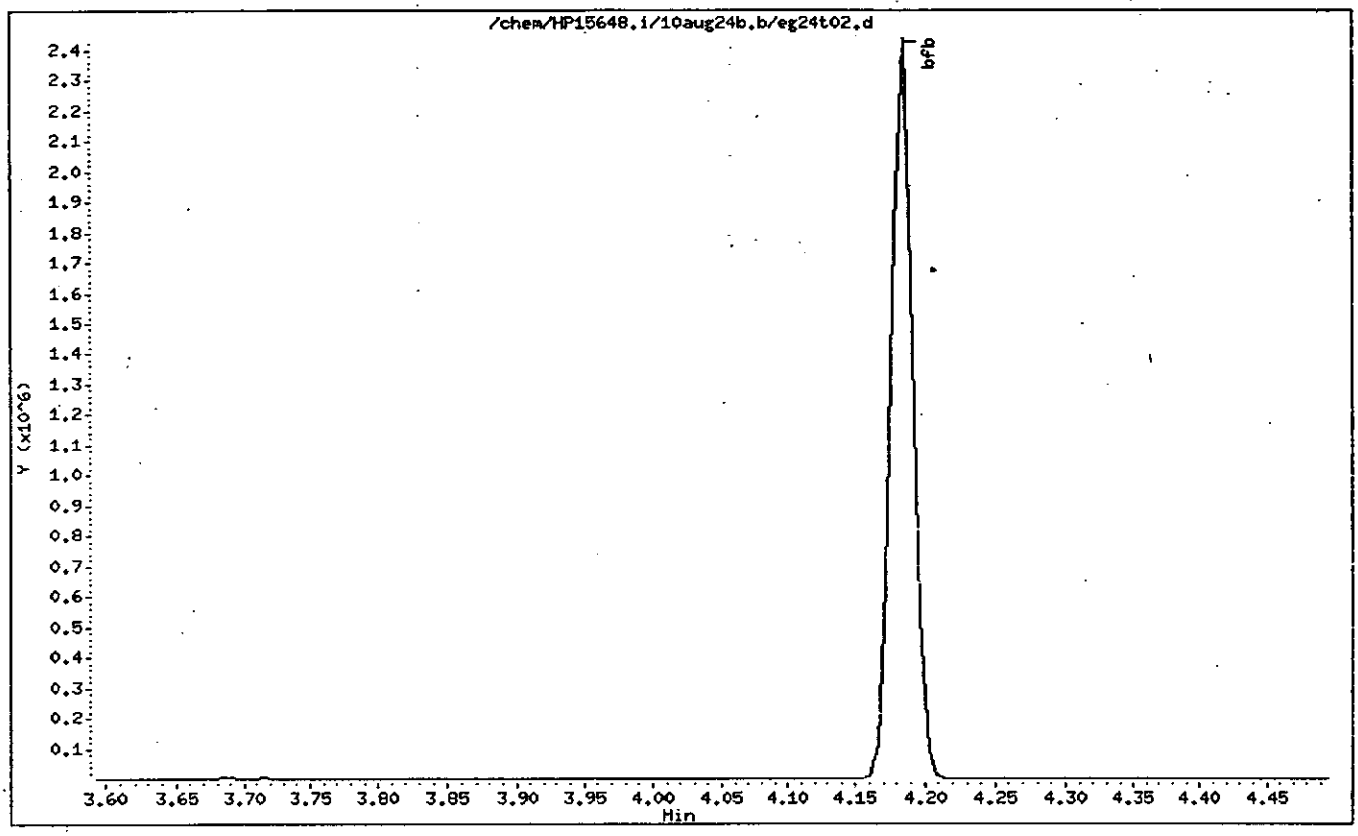
Instrument: HP15648.i

Sample Info: 50ng BFB;BFB MAY12-10;1;3;;;;

Operator: SEJ02002

Column phase: DB-624

Column diameter: 0.18



PTL86 0532

Digitally signed by Sara E. Johnson on 08/24/2010 at 15:53.
Target 3.5 esignature user ID: sej02002

Data File: /chem/HP15648.i/10aug24b.b/eg24t02.d

Date : 24-AUG-2010 15:39

Client ID: 50ng BFB

Instrument: HP15648.i

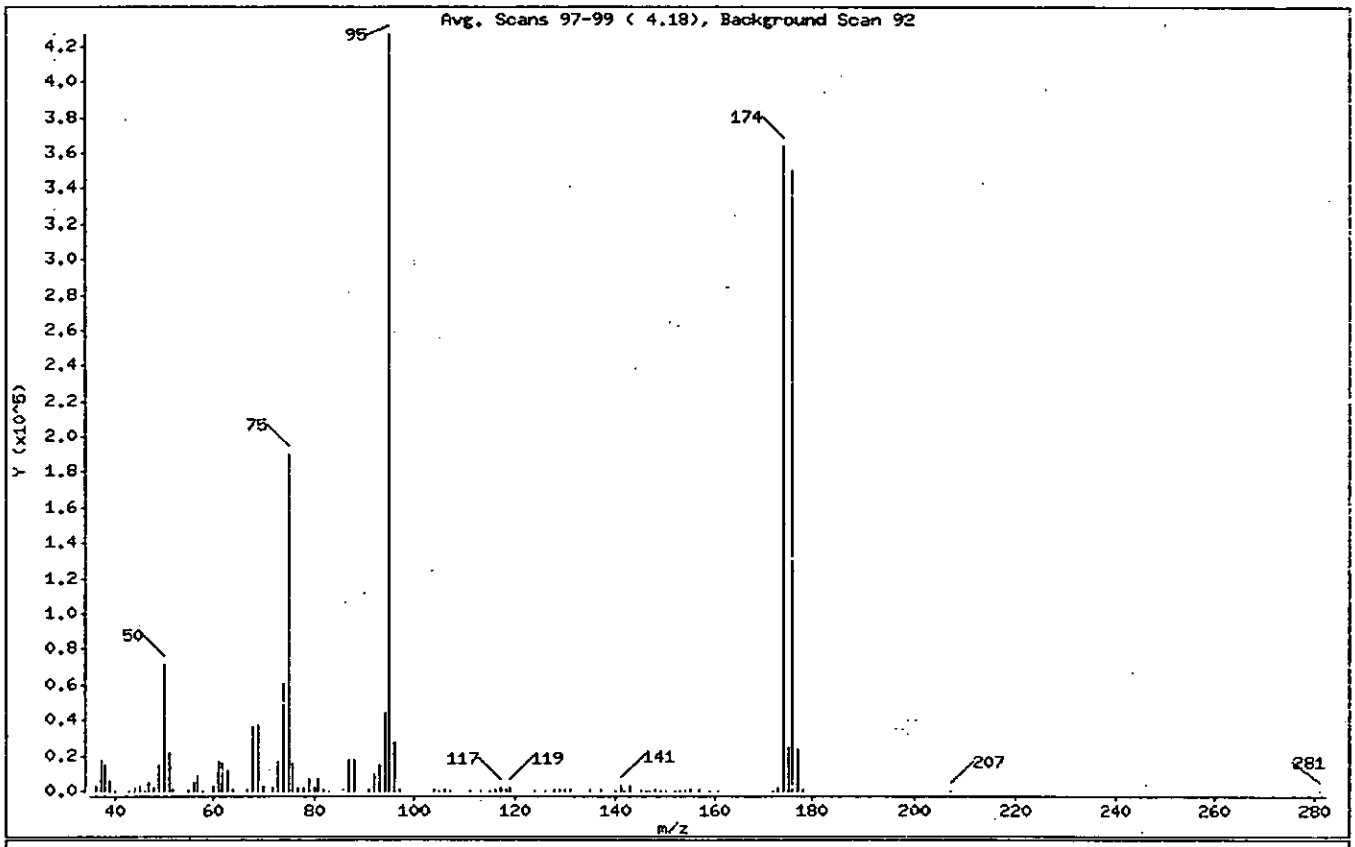
Sample Info: 50ng BFB;BFB MAY12-10;1;3;;;;

Operator: SEJ02002

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	16.75
75	30.00 - 60.00% of mass 95	44.66
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.56 (0.66)
174	50.00 - 100.00% of mass 95	85.35
175	5.00 - 9.00% of mass 174	5.83 (6.83)
176	95.00 - 101.00% of mass 174	82.09 (96.18)
177	5.00 - 9.00% of mass 176	5.52 (6.73)

PTL86 0533

Digitally signed by Sara E. Johnson on 08/24/2010 at 15:53.
Target 3.5 esignature user ID: sej02002

Data File: /chem/HP15648.i/10aug24b.b/eg24t02.d

Date : 24-AUG-2010 15:39

Client ID: 50ng BFB

Instrument: HP15648.i

Sample Info: 50ng BFB;BFB MAY12-10;1;3;;;;

Operator: SEJ02002

Column phase: DB-624

Column diameter: 0.18

Data File: eg24t02.d
Spectrum: Avg. Scans 97-99 (4.18), Background Scan 92
Location of Maximum: 95.00
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3163	67.00	1049	96.00	27592	143.00	2678
37.00	17536	68.00	36624	97.00	878	145.00	289
38.00	14521	69.00	37464	104.00	1250	146.00	480
39.00	5758	70.00	2956	105.00	474	147.00	188
40.00	198	72.00	1825	106.00	1217	148.00	696
43.00	104	73.00	16368	107.00	379	149.00	120
44.00	1878	74.00	60560	111.00	87	150.00	418
45.00	2945	75.00	190528	113.00	91	152.00	143
46.00	124	76.00	16063	115.00	250	153.00	235
47.00	5177	77.00	2264	116.00	1140	154.00	91
48.00	2304	78.00	1520	117.00	1974	155.00	872
49.00	14335	79.00	6672	118.00	1090	157.00	652
50.00	71472	80.00	1985	119.00	1490	159.00	290
51.00	21800	81.00	6631	124.00	185	161.00	274
52.00	982	82.00	1381	126.00	91	172.00	212
55.00	947	83.00	192	128.00	1377	173.00	2400
56.00	4783	86.00	505	129.00	520	174.00	364160
57.00	9247	87.00	17392	130.00	1291	175.00	24872
58.00	323	88.00	17648	131.00	560	176.00	350208
60.00	3291	91.00	985	135.00	491	177.00	23560
61.00	16254	92.00	9688	137.00	586	178.00	616
62.00	15878	93.00	14562	140.00	281	207.00	184
63.00	11907	94.00	44168	141.00	2885	281.00	450
64.00	1035	95.00	426624	142.00	227		

Digitally signed by Sara E. Johnson on 08/24/2010 at 15:53.
Target 3.5 esignature user ID: sej02002

Data File: /chem/HP15648.i/10aug25a.b/eg25t01.d

Date : 25-AUG-2010 08:27

Client ID: 50ng BFB

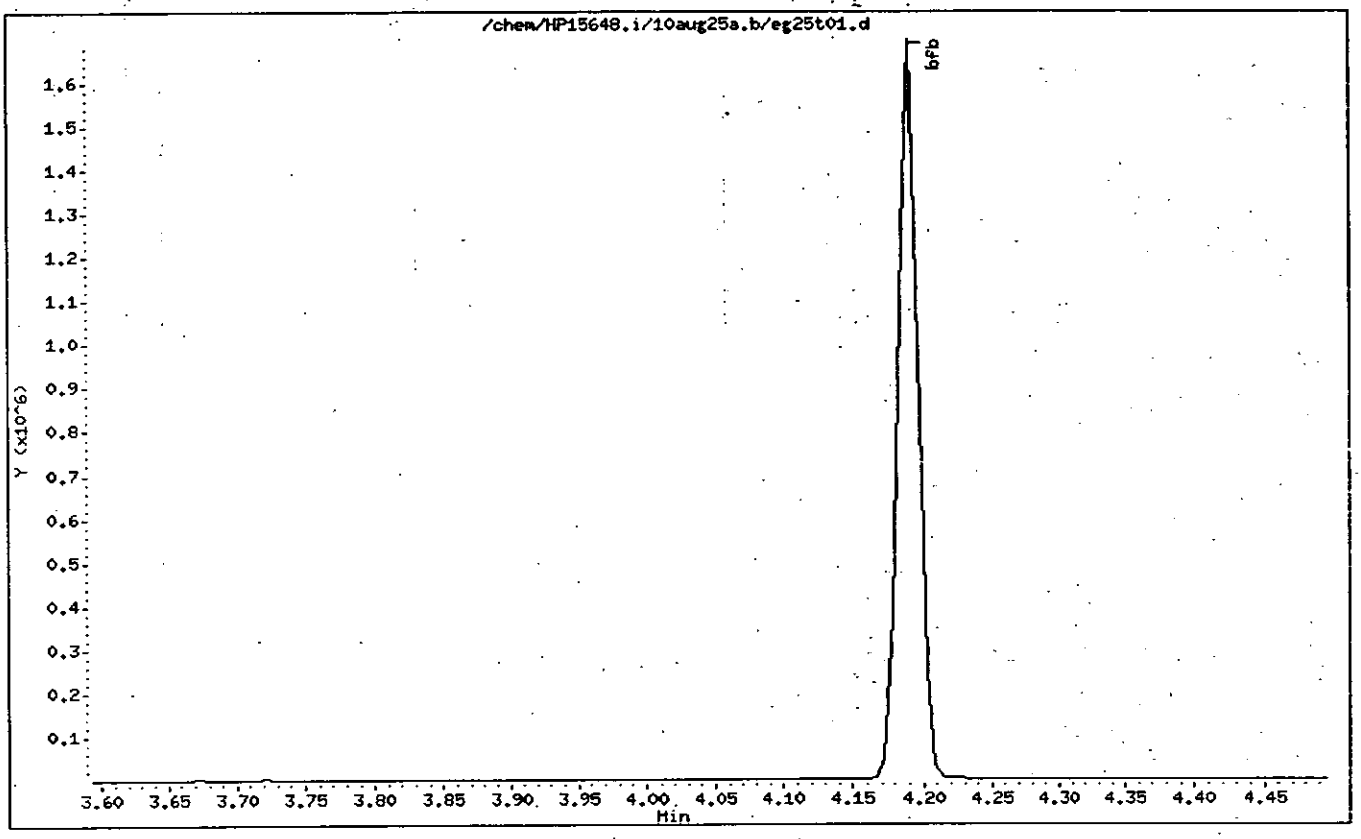
Instrument: HP15648.i

Sample Info: 50ng BFB;BFB MAY12-10;1;3;;;;

Operator: JML01693

Column phase: DB-624

Column diameter: 0.18



PTL06 2535

Digitally signed by Jason M. Long on 08/25/2010 at 08:36.
Target 3.5 esignature user ID: jml01693

Data File: /chem/HP15648.i/10aug25a.b/eg25t01.d

Date : 25-AUG-2010 08:27

Client ID: 50ng BFB

Instrument: HP15648.i

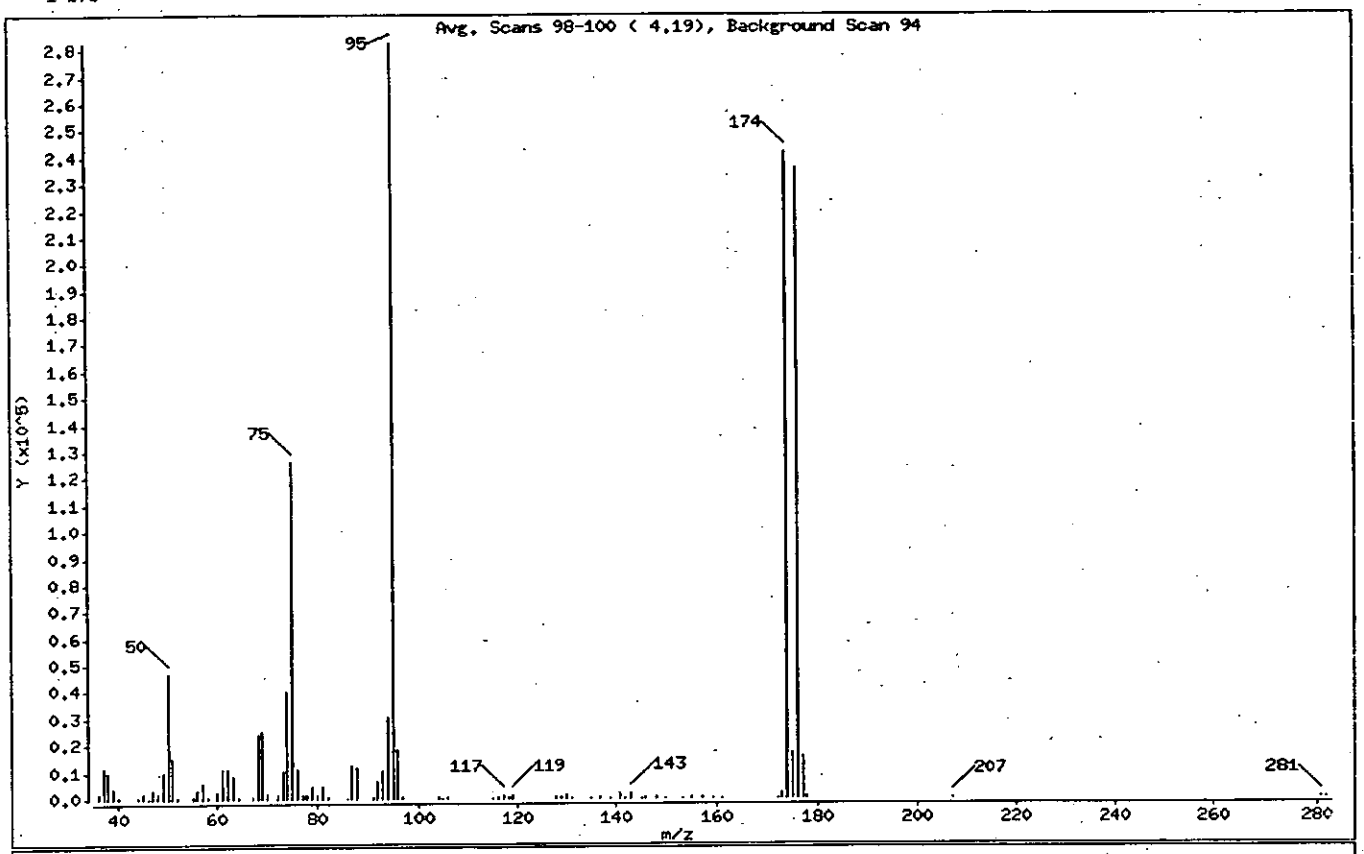
Sample Info: 50ng BFB;BFB HAY12-10;1;3;;;;

Operator: JML01693

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	16.51
75	30.00 - 60.00% of mass 95	44.65
96	5.00 - 9.00% of mass 95	6.41
173	Less than 2.00% of mass 174	0.64 (0.75)
174	50.00 - 100.00% of mass 95	85.59
175	5.00 - 9.00% of mass 174	6.04 (7.05)
176	95.00 - 101.00% of mass 174	83.43 (97.48)
177	5.00 - 9.00% of mass 176	5.47 (6.55)

PTL06 0536

Digitally signed by Jason M. Long on 08/25/2010 at 08:36.
Target 3.5 esignature user ID: jml01693

Data File: /chem/HP15648.i/10aug25a.b/eg25t01.d

Date : 25-AUG-2010 08:27

Client ID: 50ng BFB

Instrument: HP15648.i

Sample Info: 50ng BFB;BFB MAY12-10;1;3;;;;

Operator: JHL01693

Column phase: DB-624

Column diameter: 0.18

Data File: eg25t01.d

Spectrum: Avg. Scans 98-100 (4.19), Background Scan 94

Location of Maximum: 95.00

Number of points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2185	64.00	671	94.00	30232	145.00	90
37.00	11458	67.00	536	95.00	282752	146.00	393
38.00	9976	68.00	24216	96.00	18112	148.00	600
39.00	3935	69.00	25080	97.00	582	150.00	118
40.00	522	70.00	1893	104.00	827	153.00	216
44.00	786	72.00	1187	105.00	243	155.00	684
45.00	2098	73.00	10625	106.00	924	157.00	440
46.00	180	74.00	40376	115.00	97	159.00	131
47.00	3504	75.00	126272	116.00	651	161.00	129
48.00	1628	76.00	10755	117.00	1225	172.00	102
49.00	9881	77.00	1534	118.00	838	173.00	1806
50.00	46680	78.00	1001	119.00	1151	174.00	242048
51.00	14688	79.00	4526	128.00	845	175.00	17072
52.00	599	80.00	1359	129.00	328	176.00	235904
55.00	670	81.00	4606	130.00	1046	177.00	15460
56.00	3146	82.00	856	131.00	275	178.00	477
57.00	6099	86.00	93	135.00	314	207.00	88
58.00	382	87.00	12163	137.00	406	291.00	303
60.00	2312	88.00	11415	139.00	89	292.00	85
61.00	10766	91.00	675	141.00	1713		
62.00	10835	92.00	6677	142.00	238		
63.00	8195	93.00	10152	143.00	1791		

Digitally signed by Jason M. Long on 08/25/2010 at 08:36.
Target 3.5 esignature user ID: jml01693

VBLKE06 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VBLKE06

Data file: /chem/HP15648.i/10aug24b.b/eg24b51.d
Data file Sample Info. Line: VBLKE06;VBLKE06;1;3;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 16:57 sej02002

Injection date and time: **24-AUG-2010 16:29**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **8250W-F**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:36
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.006)	291	65	159665 (-19)	250.00	
69) Fluorobenzene	5.047(0.000)	666	96	1266412 (1)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	894151 (1)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	484859 (0)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.389(0.000)	113	285453	50.410	101%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(0.000)	102	76241	50.707	101%		77 - 113
90) Toluene-d8	(2)	6.687(0.000)	98	1250795	50.581	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	442379	50.430	101%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
3) 1,3-Butadiene	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
8) Trichlorofluoromethane	(1)			Not Detected					2
9) n-Pentane	(1)			Not Detected					3
12) Ethyl Ether	(1)			Not Detected					2
14) Acrolein	(4)			Not Detected					40
15) 1,1-Dichloroethene	(1)			Not Detected					0.8
17) Freon 113	(1)			Not Detected					2
16) Acetone	(1)			Not Detected					6
18) Methyl Iodide	(1)			Not Detected					1
21) Carbon Disulfide	(1)			Not Detected					1
22) Allyl Chloride	(1)			Not Detected					1
23) Methyl Acetate	(1)			Not Detected					1
24) Methylene Chloride	(1)			Not Detected					2
26) t-Butyl Alcohol	(4)			Not Detected					10
27) Acrylonitrile	(1)			Not Detected					4
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
31) n-Hexane	(1)			Not Detected					2
36) 1,2-Dichloroethene (total)	(1)			Not Detected					0.8
33) 1,1-Dichloroethane	(1)			Not Detected					1
34) di-Isopropyl Ether	(1)			Not Detected					0.8
35) 2-Chloro-1,3-Butadiene	(1)			Not Detected					1
37) Ethyl t-Butyl Ether	(1)			Not Detected					0.8
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
42) Propionitrile	(4)			Not Detected					30
44) Methacrylonitrile	(1)			Not Detected					10
45) Bromochloromethane	(1)			Not Detected					1

PTL86 8538

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VBLKE06 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VBLKE06

Data file: /chem/HP15648.i/10aug24b.b/eg24b51.d Injection date and time: **24-AUG-2010 16:29**
Data file Sample Info. Line: VBLKE06;VBLKE06;1;3;;;; Instrument ID: **HP15648.i** Batch: **E102362AA**
Date, time and analyst ID of latest file update: 24-Aug-2010 16:57 sej02002

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:36
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
46) Tetrahydrofuran	(4)				Not Detected					4
47) Chloroform	(1)				Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)				Not Detected					0.8
53) Cyclohexane	(1)				Not Detected					2
55) 1,1-Dichloropropene	(1)				Not Detected					1
56) Carbon Tetrachloride	(1)				Not Detected					1
58) Isobutyl Alcohol	(4)				Not Detected					100
63) Benzene	(1)				Not Detected					0.5
65) 1,2-Dichloroethane	(1)				Not Detected					1
67) t-Amyl Methyl Ether	(1)				Not Detected					0.8
68) n-Heptane	(1)				Not Detected					2
71) n-Butanol	(4)				Not Detected					100
72) Trichloroethene	(1)				Not Detected					1
76) 1,2-Dichloropropane	(1)				Not Detected					1
74) Methylcyclohexane	(1)				Not Detected					1
79) Methyl Methacrylate	(1)				Not Detected					1
78) Dibromomethane	(1)				Not Detected					1
80) 1,4-Dioxane	(4)				Not Detected					70
81) Bromodichloromethane	(1)				Not Detected					1
82) 2-Nitropropane	(1)				Not Detected					2
83) 2-Chloroethyl Vinyl Ether	(1)				Not Detected					2
87) cis-1,3-Dichloropropene	(1)				Not Detected					1
88) 4-Methyl-2-Pentanone	(1)				Not Detected					3
91) Toluene	(2)				Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)				Not Detected					1
93) Ethyl Methacrylate	(2)				Not Detected					1
94) 1,1,2-Trichloroethane	(2)				Not Detected					0.8
96) Tetrachloroethene	(2)				Not Detected					0.8
97) 1,3-Dichloropropane	(2)				Not Detected					1
98) 2-Hexanone	(2)				Not Detected					3
100) Dibromochloromethane	(2)				Not Detected					1
101) 1,2-Dibromoethane	(2)				Not Detected					1
104) Chlorobenzene	(2)				Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)				Not Detected					1
107) Ethylbenzene	(2)				Not Detected					0.8
108) m+p-Xylene	(2)				Not Detected					0.8
105) Xylene (Total)	(2)				Not Detected					0.8
110) o-Xylene	(2)				Not Detected					0.8
111) Styrene	(2)				Not Detected					1
112) Bromoform	(2)				Not Detected					1
113) Isopropylbenzene	(2)				Not Detected					1
115) Cyclohexanone	(4)				Not Detected					55
119) 1,1,2,2-Tetrachloroethane	(3)				Not Detected					1
121) trans-1,4-Dichloro-2-Butene	(3)				Not Detected					15
118) Bromobenzene	(3)				Not Detected					1
120) 1,2,3-Trichloropropane	(3)				Not Detected					1
122) n-Propylbenzene	(3)				Not Detected					1
123) 2-Chlorotoluene	(3)				Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)				Not Detected					1
125) 4-Chlorotoluene	(3)				Not Detected					1
127) tert-Butylbenzene	(3)				Not Detected					1
128) Pentachloroethane	(3)				Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)				Not Detected					1
132) sec-Butylbenzene	(3)				Not Detected					1
134) p-Isopropyltoluene	(3)				Not Detected					1

PTL06:0539

Digitally signed by Sara E. Johnson on 08/24/2010 at 16:58. Target 3.5 esignature user ID: sej02002

VBLKE06 Lancaster Laboratories Analysis Summary for GC/MS Volatiles VBLKE06

Data file: /chem/HP15648.i/10aug24b.b/eg24b51.d Injection date and time: **24-AUG-2010 16:29**
Data file Sample Info. Line: VBLKE06;VBLKE06;1;3;;;; Instrument ID: **HP15648.i** Batch: **E102362AA**
Date, time and analyst ID of latest file update: 24-Aug-2010 16:57 sej02002

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:36
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RAT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
133) 1,3-Dichlorobenzene	(3)				Not Detected					1
136) 1,4-Dichlorobenzene	(3)				Not Detected					1
137) 1,2,3-Trimethylbenzene	(3)				Not Detected					1
138) Benzyl Chloride	(3)				Not Detected					1
139) 1,3-Diethylbenzene	(3)				Not Detected					1
140) 1,4-Diethylbenzene	(3)				Not Detected					1
141) n-Butylbenzene	(3)				Not Detected					1
142) 1,2-Dichlorobenzene	(3)				Not Detected					1
143) 1,2-Diethylbenzene	(3)				Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)				Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)				Not Detected					1
147) Hexachlorobutadiene	(3)				Not Detected					2
148) Naphthalene	(3)				Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)				Not Detected					1
152) 2-Methylnaphthalene	(3)				Not Detected					2

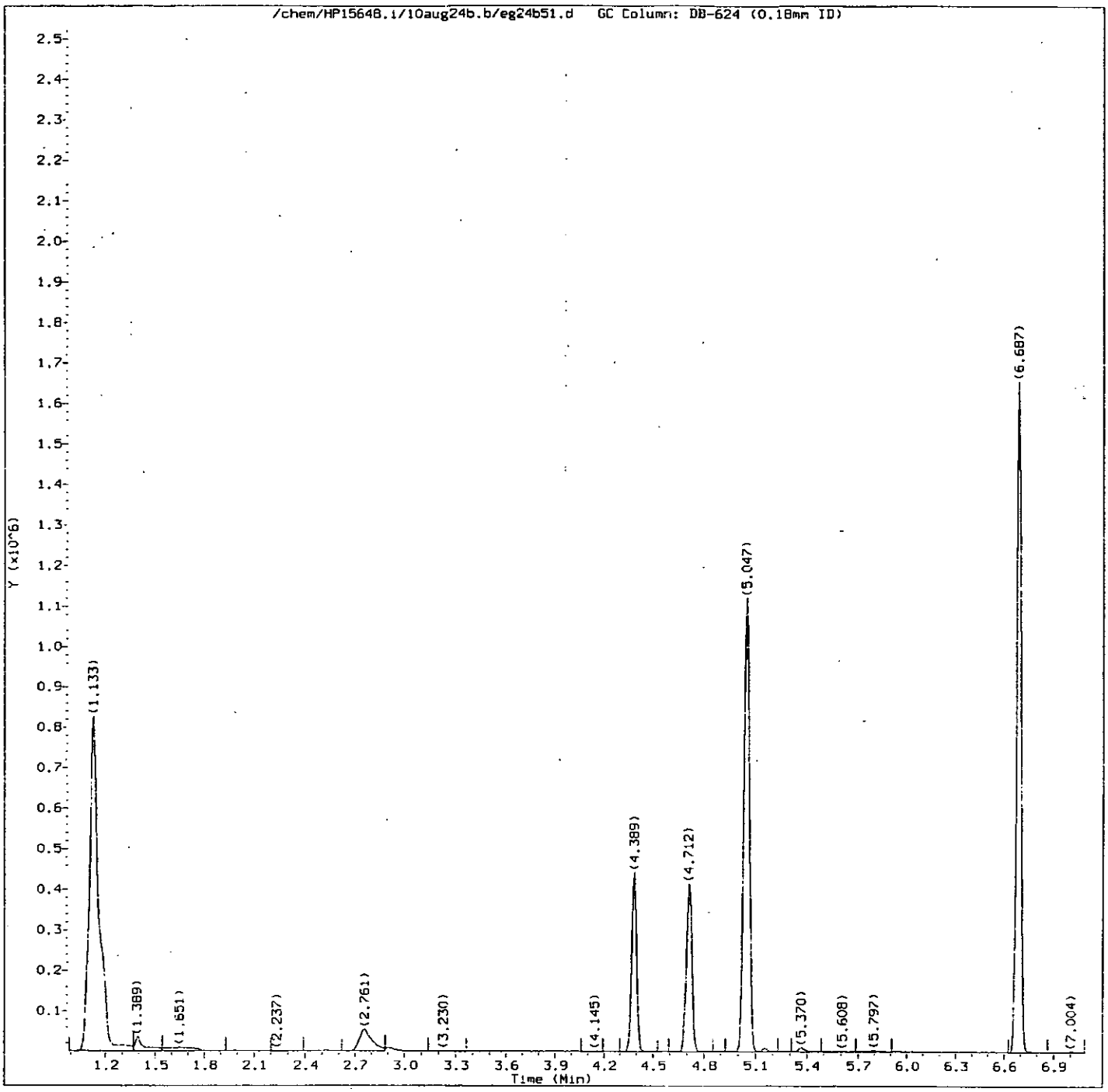
Total number of targets = 104

Comments:

PTL86 8548

Digitally signed by Sara E Johnson on 08/24/2010 at 16:58. Target 3.5 esignature user ID: sej02002

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24b51.d
Injection date and time: 24-AUG-2010 16:29

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:36

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 24-Aug-2010 16:57 sej02002

Sample Name: VBLKE06

Lab Sample ID: VBLKE06

PTL06 0541

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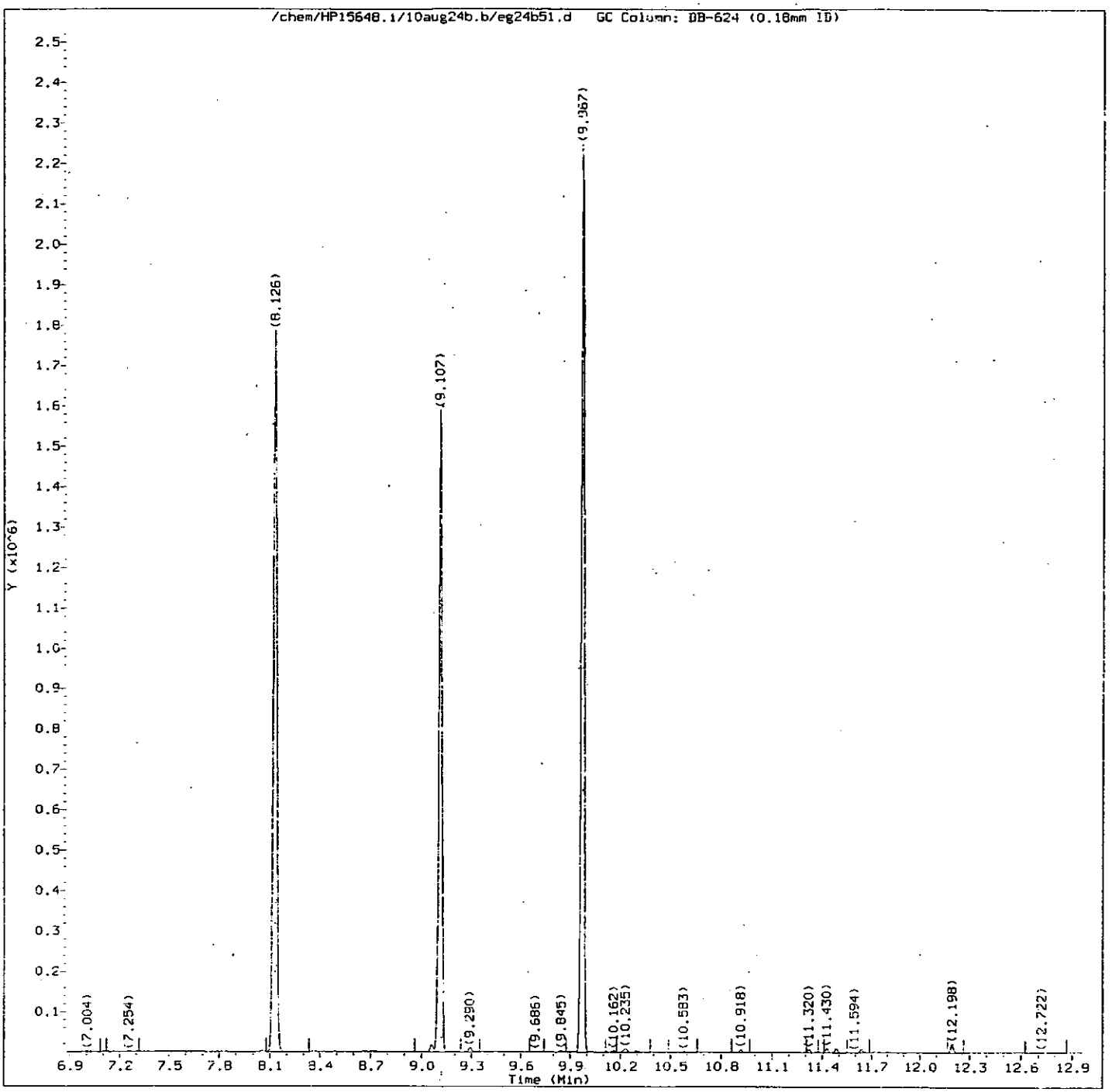
on 08/24/2010 at 16:58.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24b51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:29 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:57 sej02002

Sample Name: VBLKE06 Lab Sample ID: VBLKE06 PTL86 0542

Digitally signed by Sara E. Johnson
on 08/24/2010 at 16:58.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24b51.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:29 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:36
Date, time and analyst ID of latest file update: 24-Aug-2010 16:57 sej02002

Sample Name: VBLKE06 Lab Sample ID: VBLKE06

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
25)*t-Butyl Alcohol-d10	(4)	2.761	65	159665	250.000
50)$Dibromofluoromethane	(1)	4.389	113	285453	50.410
59)$1,2-Dichloroethane-d4	(1)	4.712	102	76241	50.707
69)*Fluorobenzene	(1)	5.047	96	1266412	50.000
90)$Toluene-d8	(2)	6.687	98	1250705	50.581
103)*Chlorobenzene-d5	(2)	8.126	117	894151	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	442379	50.430
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	484858	50.000

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

PTL86 0543

Digitally signed by Sara E. Johnson
on 08/24/2010 at 16:58.
Target 3.5 esignature user ID: sej02002

VBLKE07

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

VBLKE07

Data file: /chem/HP15648.i/10aug25a.b/eg25b01.d
Data file Sample Info. Line: VBLKE07;VBLKE07;1;3;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 09:55 jml01693

Injection date and time: **25-AUG-2010 09:18**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 09:30
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: . Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.006)	290	65	155554 (-20)	250.00	
69) Fluorobenzene	5.047(0.000)	666	96	1266552 (2)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	905857 (2)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.006)	1473	152	490186 (0)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.382(0.000)	113	283249	50.015	100%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(0.000)	102	76265	50.718	101%		77 - 113
90) Toluene-d8	(2)	6.687(0.000)	98	1257155	50.185	100%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	442582	49.801	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)			Not Detected					2
2) Chloromethane	(1)			Not Detected					1
3) 1,3-Buradiene	(1)			Not Detected					1
4) Vinyl Chloride	(1)			Not Detected					1
5) Bromomethane	(1)			Not Detected					1
6) Chloroethane	(1)			Not Detected					1
7) Dichlorofluoromethane	(1)			Not Detected					2
8) Trichlorofluoromethane	(1)			Not Detected					2
9) n-Pentane	(1)			Not Detected					2
12) Ethyl Ether	(1)			Not Detected					2
13) Freon 123a	(1)			Not Detected					2
14) Acrolein	(4)			Not Detected					40
15) 1,1-Dichloroethene	(1)			Not Detected					0.8
17) Freon 113	(1)			Not Detected					2
16) Acetone	(1)			Not Detected					6
18) Methyl Iodide	(1)			Not Detected					1
21) Carbon Disulfide	(1)			Not Detected					1
22) Allyl Chloride	(1)			Not Detected					1
23) Methyl Acetate	(1)			Not Detected					1
24) Methylene Chloride	(1)			Not Detected					2
26) t-Butyl Alcohol	(4)			Not Detected					10
27) Acrylonitrile	(1)			Not Detected					4
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.8
29) Methyl Tertiary Butyl Ether	(1)			Not Detected					0.5
31) n-Hexane	(1)			Not Detected					2
36) 1,2-Dichloroethene (total)	(1)			Not Detected					0.8
33) 1,1-Dichloroethane	(1)			Not Detected					1
34) di-Isopropyl Ether	(1)			Not Detected					0.8
35) 2-Chloro-1,3-Butadiene	(1)			Not Detected					1
37) Ethyl t-Butyl Ether	(1)			Not Detected					0.8
39) cis-1,2-Dichloroethene	(1)			Not Detected					0.8
40) 2-Butanone	(1)			Not Detected					3
41) 2,2-Dichloropropane	(1)			Not Detected					1
42) Propionitrile	(4)			Not Detected					30

PTL86 8544

Digitally signed by Jason M. Long on 08/25/2010 at 09:56. Target 3.5 esignature user ID: jml01693

VBLKE07

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

VBLKE07

Data file: /chem/HP15648.i/10aug25a.b/eg25b01.d
Data file Sample Info. Line: VBLKE07;VBLKE07;1;3;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 09:55 jml01693

Injection date and time: **25-AUG-2010 09:18**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 09:30
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
44) Methacrylonitrile	(1)			Not Detected					10
45) Bromochloromethane	(1)			Not Detected					1
46) Tetrahydrofuran	(4)			Not Detected					4
47) Chloroform	(1)			Not Detected					0.8
52) 1,1,1-Trichloroethane	(1)			Not Detected					0.8
53) Cyclohexane	(1)			Not Detected					2
55) 1,1-Dichloropropene	(1)			Not Detected					1
56) Carbon Tetrachloride	(1)			Not Detected					1
58) Isobutyl Alcohol	(4)			Not Detected					100
63) Benzene	(1)			Not Detected					0.5
65) 1,2-Dichloroethane	(1)			Not Detected					1
67) t-Amyl Methyl Ether	(1)			Not Detected					0.8
68) n-Heptane	(1)			Not Detected					2
71) n-Butanol	(4)			Not Detected					100
72) Trichloroethene	(1)			Not Detected					1
76) 1,2-Dichloropropane	(1)			Not Detected					1
74) Methylcyclohexane	(1)			Not Detected					1
79) Methyl Methacrylate	(1)			Not Detected					1
78) Dibromomethane	(1)			Not Detected					1
80) 1,4-Dioxane	(4)			Not Detected					70
81) Bromodichloromethane	(1)			Not Detected					1
82) 2-Nitropropane	(1)			Not Detected					2
83) 2-Chloroethyl Vinyl Ether	(1)			Not Detected					2
87) cis-1,3-Dichloropropene	(1)			Not Detected					1
88) 4-Methyl-2-Pentanone	(1)			Not Detected					3
91) Toluene	(2)			Not Detected					0.7
92) trans-1,3-Dichloropropene	(2)			Not Detected					1
93) Ethyl Methacrylate	(2)			Not Detected					1
94) 1,1,2-Trichloroethane	(2)			Not Detected					0.8
96) Tetrachloroethene	(2)			Not Detected					0.8
97) 1,3-Dichloropropane	(2)			Not Detected					1
98) 2-Hexanone	(2)			Not Detected					3
100) Dibromochloromethane	(2)			Not Detected					1
101) 1,2-Dibromoethane	(2)			Not Detected					1
104) Chlorobenzene	(2)			Not Detected					0.8
106) 1,1,1,2-Tetrachloroethane	(2)			Not Detected					1
107) Ethylbenzene	(2)			Not Detected					0.8
108) m+p-Xylene	(2)			Not Detected					0.8
105) Xylene (Total)	(2)			Not Detected					0.8
110) o-Xylene	(2)			Not Detected					0.8
111) Styrene	(2)			Not Detected					1
112) Bromoform	(2)			Not Detected					1
113) Isopropylbenzene	(2)			Not Detected					1
115) Cyclohexanone	(4)			Not Detected					55
119) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					1
121) trans-1,4-Dichloro-2-Butene	(3)			Not Detected					15
118) Bromobenzene	(3)			Not Detected					1
120) 1,2,3-Trichloropropane	(3)			Not Detected					1
122) n-Propylbenzene	(3)			Not Detected					1
123) 2-Chlorotoluene	(3)			Not Detected					1
124) 1,3,5-Trimethylbenzene	(3)			Not Detected					1
125) 4-Chlorotoluene	(3)			Not Detected					1
127) tert-Butylbenzene	(3)			Not Detected					1
128) Pentachloroethane	(3)			Not Detected					1
130) 1,2,4-Trimethylbenzene	(3)			Not Detected					1

PTL86 18545

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VBLKE07 Lancaster Laboratories VBLKE07
Analysis Summary for GC/MS Volatiles

Data file: /chem/HP15648.i/10aug25a.b/eg25b01.d
Data file Sample Info. Line: VBLKE07;VBLKE07;1;3;;;;
Date, time and analyst ID of latest file update: 25-Aug-2010 09:55 jm101693

Injection date and time: **25-AUG-2010 09:18**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 09:30
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
132) sec-Butylbenzene	(3)				Not Detected					1
134) p-Isopropyltoluene	(3)				Not Detected					1
133) 1,3-Dichlorobenzene	(3)				Not Detected					1
136) 1,4-Dichlorobenzene	(3)				Not Detected					1
137) 1,2,3-Trimethylbenzene	(3)				Not Detected					1
138) Benzyl Chloride	(3)				Not Detected					1
139) 1,3-Diethylbenzene	(3)				Not Detected					1
140) 1,4-Diethylbenzene	(3)				Not Detected					1
141) n-Butylbenzene	(3)				Not Detected					1
142) 1,2-Dichlorobenzene	(3)				Not Detected					1
143) 1,2-Diethylbenzene	(3)				Not Detected					1
145) 1,2-Dibromo-3-Chloropropane	(3)				Not Detected					2
146) 1,2,4-Trichlorobenzene	(3)				Not Detected					1
147) Hexachlorobutadiene	(3)				Not Detected					2
148) Naphthalene	(3)				Not Detected					1
149) 1,2,3-Trichlorobenzene	(3)				Not Detected					1
152) 2-Methylnaphthalene	(3)				Not Detected					2

Total number of targets = 106

Comments:

PTL06 #546

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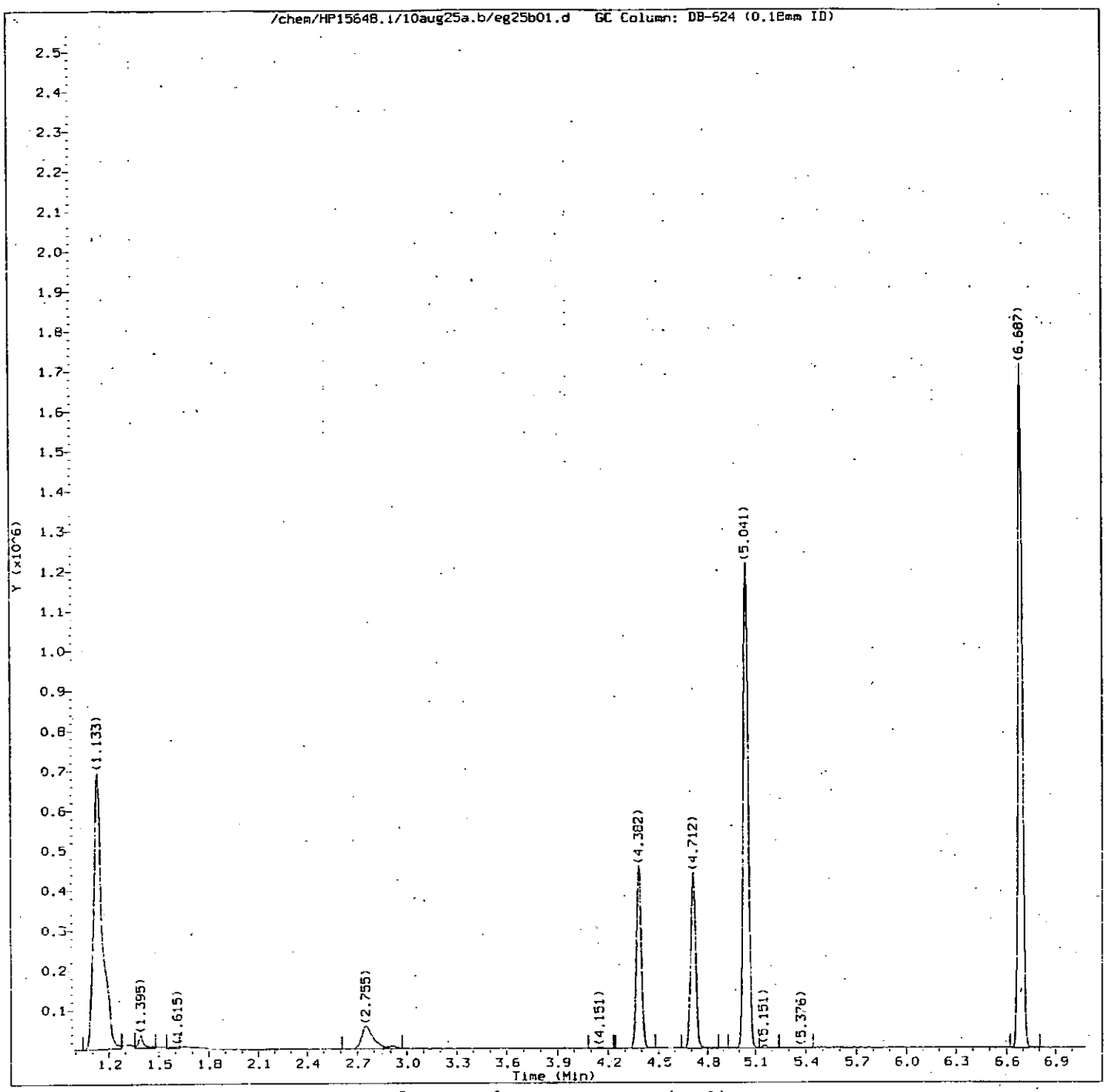
Auditor: HB1996 Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25b01.d
Injection date and time: 25-AUG-2010 09:18

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 09:30

Sublist used: 8260W

Date, time and analyst ID of latest file update: 25-Aug-2010 09:55 jml01693

Sample Name: VBLKE07

Lab Sample ID: VBLKE07

PTL86 0547

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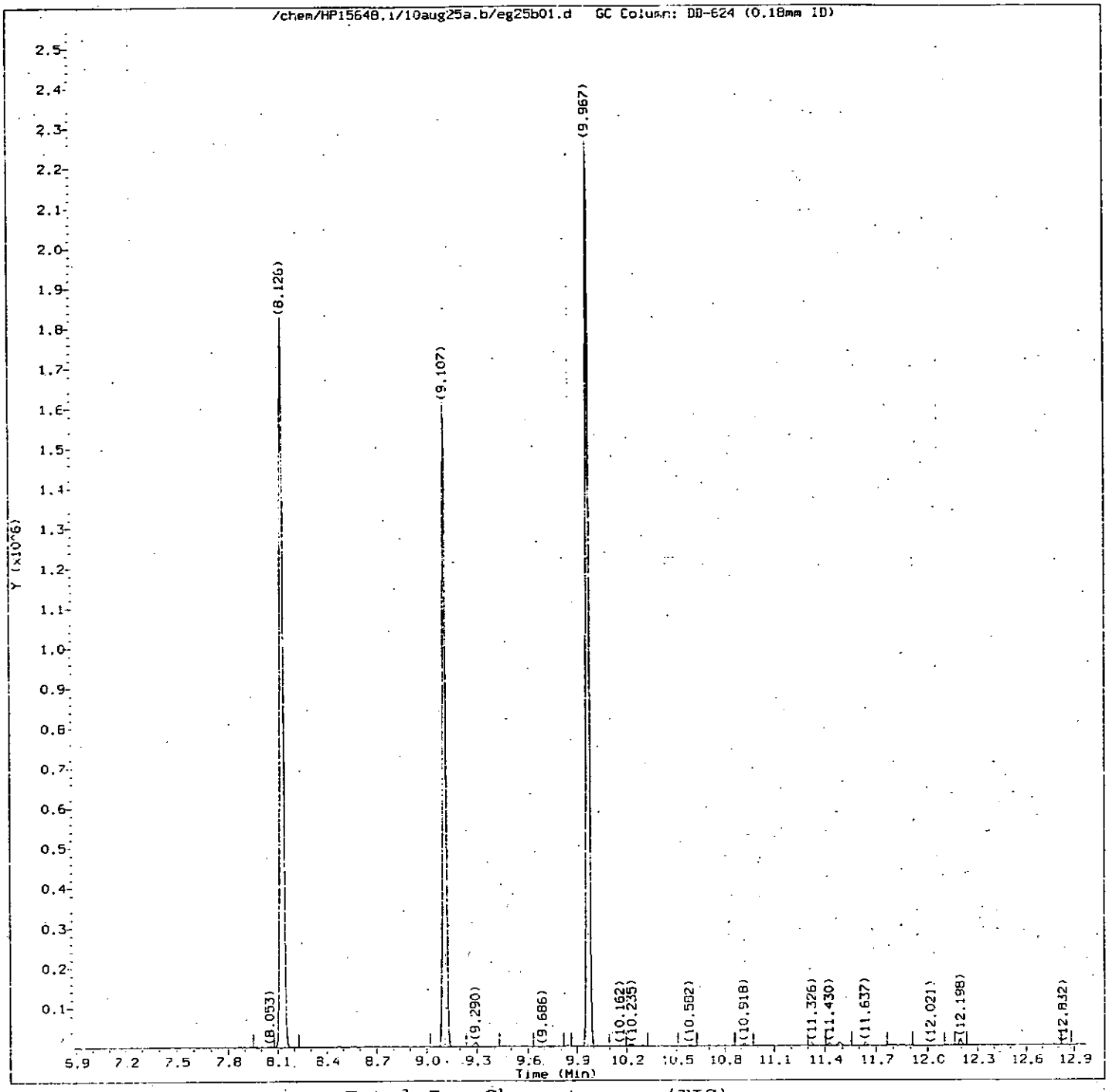
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25b01.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:18 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 09:55 jml01693

Sample Name: VBLKE07 Lab Sample ID: VBLKE07 PTL06 0548

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Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25b01.d
Injection date and time: 25-AUG-2010 09:18

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 09:30

Sublist used: 8260W

Date, time and analyst ID of latest file update: 25-Aug-2010 09:55 jml01693

Sample Name: VBLKE07

Lab Sample ID: VBLKE07

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
25)*t-Butyl Alcohol-d10	(4)	2.755	65	155554	250.000
50)$Dibromofluoromethane	(1)	4.382	113	283249	50.015
59)$1,2-Dichloroethane-d4	(1)	4.712	102	76265	50.718
69)*Fluorobenzene	(1)	5.047	96	1266552	50.000
90)$Toluene-d8	(2)	6.687	98	1257155	50.185
103)*Chlorobenzene-d5	(2)	8.126	117	905857	50.000
116)$4-Bromofluorobenzene	(2)	9.107	95	442582	49.801
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	490186	50.000

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

PTL06 0549

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Target 3.5 esignature user ID: jml01693

XXXXXMS

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061441MS

Data file: /chem/HP15648.i/10aug24b.b/eg24s56.d
Data file Sample Info. Line: XXXXXMS;6061441MS;1;3;MS;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Injection date and time: **24-AUG-2010 19:28**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.767(0.000)	292	65	150779 (-23)	250.00	
69) Fluorobenzene	5.047(0.000)	666	96	1326618 (6)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	939198 (7)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	517747 (7)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.383(0.001)	113	297006	50.070	100%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(0.000)	102	81145	51.520	103%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1318460	50.764	102%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	464406	50.402	101%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)	1.292(-0.001)	85	158655	13.602	13.60			2
2) Chloromethane	(1)	1.359(0.001)	50	173907	14.618	14.62			1
4) Vinyl Chloride	(1)	1.450(0.001)	62	175545	15.264	15.26			1
5) Bromomethane	(1)	1.670(0.001)	94	105045	14.423	14.42			1
6) Chloroethane	(1)	1.737(-0.000)	64	104121	15.319	15.32			1
8) Trichlorofluoromethane	(1)	1.962(-0.000)	101	188510	14.967	14.97			2
15) 1,1-Dichloroethene	(1)	2.322(0.001)	96	500911	66.649	66.65			0.8
16) Acetone	(1)	2.352(-0.000)	43	305096	127.687	127.69			6
24) Methylene Chloride	(1)	2.743(-0.000)	84	140085	17.822	17.82			2
28) trans-1,2-Dichloroethene	(1)	2.980(-0.000)	96	149277	19.082	19.08			0.8
29) Methyl Tertiary Butyl Ether	(1)	2.993(-0.001)	73	391077	18.108	18.11			0.5
33) 1,1-Dichloroethane	(1)	3.371(-0.000)	63	289396	20.670	20.67			1
39) cis-1,2-Dichloroethene	(1)	3.919(0.000)	96	152594	18.474	18.47			0.8
40) 2-Butanone	(1)	3.925(0.001)	43	490019	122.224	122.22			3
41) 2,2-Dichloropropane	(1)	3.925(0.001)	77	202097	19.356	19.36			1
45) Bromochloromethane	(1)	4.151(-0.000)	128	60124	15.322	15.32			1
47) Chloroform	(1)	4.230(-0.000)	83	232988	18.790	18.79			0.8
52) 1,1,1-Trichloroethane	(1)	4.413(-0.000)	97	242817	20.331	20.33			0.8
55) 1,1-Dichloropropene	(1)	4.566(0.000)	75	218428	19.355	19.35			1
56) Carbon Tetrachloride	(1)	4.566(0.001)	117	168062	19.389	19.39			1
63) Benzene	(1)	4.767(0.001)	78	592848	18.367	18.37			0.5
65) 1,2-Dichloroethane	(1)	4.785(0.001)	62	169444	18.343	18.34			1
72) Trichloroethene	(1)	5.413(0.001)	95	152300	18.354	18.35			1
76) 1,2-Dichloropropane	(1)	5.638(0.001)	63	147441	18.061	18.06			1
78) Dibromomethane	(1)	5.760(0.001)	93	78431	16.867	16.87			1
81) Bromodichloromethane	(1)	5.931(0.001)	83	152113	17.401	17.40			1
87) cis-1,3-Dichloropropene	(1)	6.400(0.000)	75	193124	16.658	16.66			1
88) 4-Methyl-2-Pentanone	(1)	6.577(0.000)	43	708492	79.595	79.60			3
91) Toluene	(2)	6.754(-0.000)	92	378405	18.375	18.37			0.7
92) trans-1,3-Dichloropropene	(2)	6.998(0.000)	75	173488	16.476	16.48			1
94) 1,1,2-Trichloroethane	(2)	7.193(0.000)	97	116780	17.562	17.56			0.8
96) Tetrachloroethene	(2)	7.333(0.000)	166	173130	18.081	18.08			0.8
97) 1,3-Dichloropropane	(2)	7.370(-0.000)	76	201445	17.153	17.15			1
100) Dibromochloromethane	(2)	7.589(0.000)	129	105635	16.445	16.45			1

PTL06-10558

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XXXXXMS

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061441MS

Data file: /chem/HP15648.i/10aug24b.b/eg24s56.d
Data file Sample Info. Line: XXXXXMS;6061441MS;1;3;MS;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Injection date and time: **24-AUG-2010 19:28**
Instrument ID: **EP15648.i** Batch: **E102352AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
101) 1,2-Dibromoethane	(2)	7.693(-0.000)	107	111396	16.473	16.47			1
104) Chlorobenzene	(2)	8.150(0.000)	112	401329	18.003	18.00			0.8
106) 1,1,1,2-Tetrachloroethane	(2)	8.229(0.000)	131	111654	16.817	16.82			1
107) Ethylbenzene	(2)	8.254(0.000)	91	719661	18.238	18.24			0.8
108) m+p-Xylene	(2)	8.357(0.000)	106	558078	35.996	36.00			0.8
110) o-Xylene	(2)	8.693(0.000)	106	268497	17.893	17.89			0.8
111) Styrene	(2)	8.699(0.000)	104	416985	17.600	17.60			1
112) Bromoform	(2)	8.845(0.000)	173	71575	15.056	15.06			1
113) Isopropylbenzene	(2)	8.992(0.000)	105	725663	18.373	18.37			1
119) 1,1,2,2-Tetrachloroethane	(3)	9.229(-0.000)	83	165183	16.555	16.56			1
118) Bromobenzene	(3)	9.223(-0.000)	156	157489	17.186	17.19			1
120) 1,2,3-Trichloropropane	(3)	9.260(-0.000)	110	48014	16.313	16.31			1
122) n-Propylbenzene	(3)	9.308(0.000)	91	864349	18.406	18.41			1
123) 2-Chlorotoluene	(3)	9.369(0.000)	126	155212	17.645	17.64			1
124) 1,3,5-Trimethylbenzene	(3)	9.443(0.000)	105	576135	17.963	17.96			1
125) 4-Chlorotoluene	(3)	9.455(-0.000)	126	165901	17.482	17.48			1
127) tert-Butylbenzene	(3)	9.686(-0.000)	134	140137	17.564	17.56			1
130) 1,2,4-Trimethylbenzene	(3)	9.717(0.000)	105	591034	17.775	17.78			1
132) sec-Butylbenzene	(3)	9.845(-0.000)	105	780329	18.517	18.52			1
134) p-Isopropyltoluene	(3)	9.949(-0.000)	119	656624	17.922	17.92			1
133) 1,3-Dichlorobenzene	(3)	9.924(-0.000)	146	309315	17.431	17.43			1
136) 1,4-Dichlorobenzene	(3)	9.985(0.000)	146	311604	17.358	17.36			1
141) n-Butylbenzene	(3)	10.235(0.000)	92	325842	17.772	17.77			1
142) 1,2-Dichlorobenzene	(3)	10.247(0.000)	146	291736	17.186	17.19			1
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778(0.000)	75	28475	15.958	15.96			2
146) 1,2,4-Trichlorobenzene	(3)	11.326(0.000)	180	200840	16.252	16.25			1
147) Hexachlorobutadiene	(3)	11.430(0.000)	225	94011	16.347	16.35			2
148) Naphthalene	(3)	11.485(0.000)	128	574410	16.122	16.12			1
149) 1,2,3-Trichlorobenzene	(3)	11.637(0.000)	180	187858	16.382	16.38			1

Total number of targets = 63

Comments: Client

PTL86 0551

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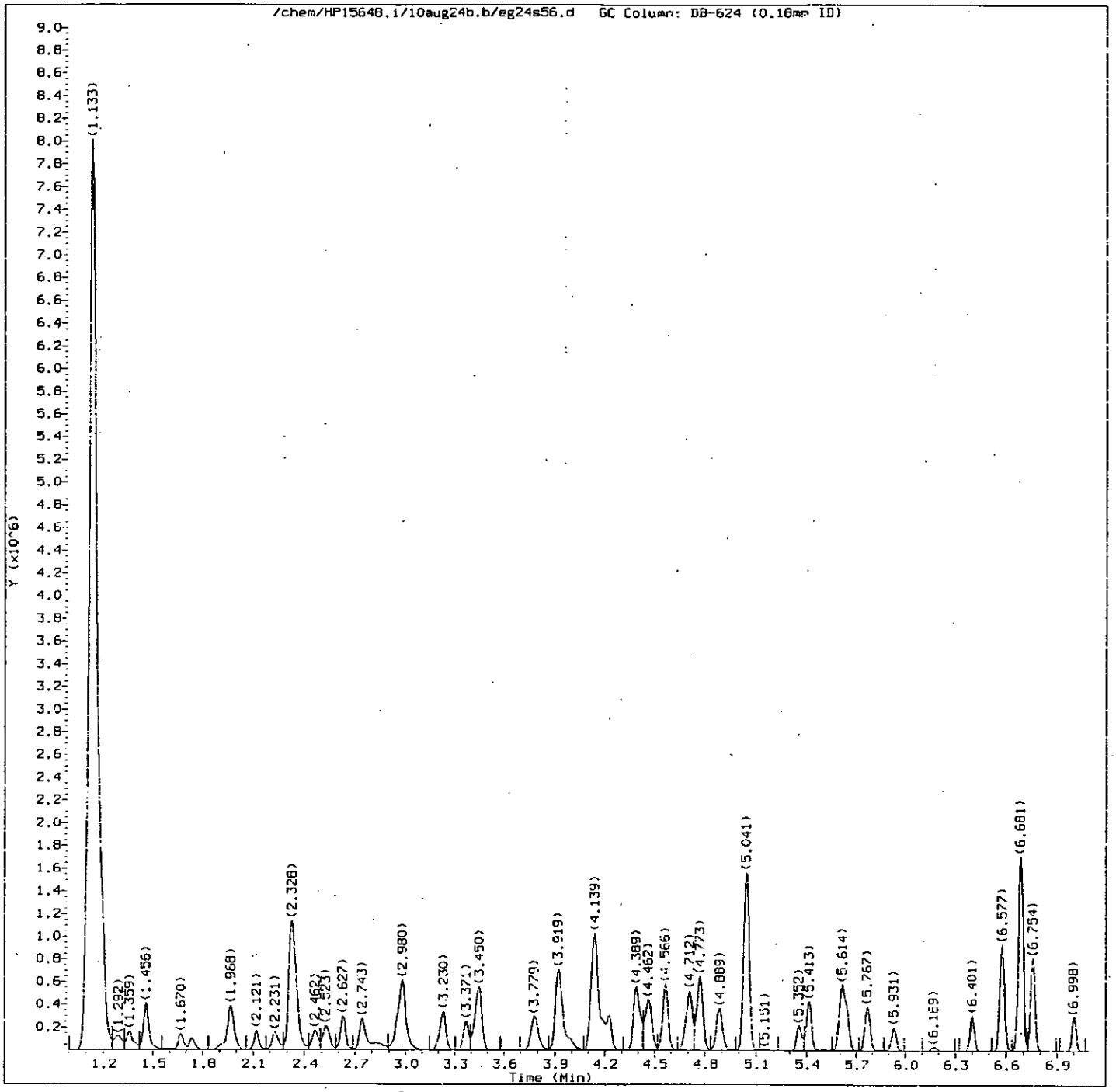
Auditor: [illegible] Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s56.d
Injection date and time: 24-AUG-2010 19:28

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMS

Lab Sample ID: 6061441MS

PTL86 0552

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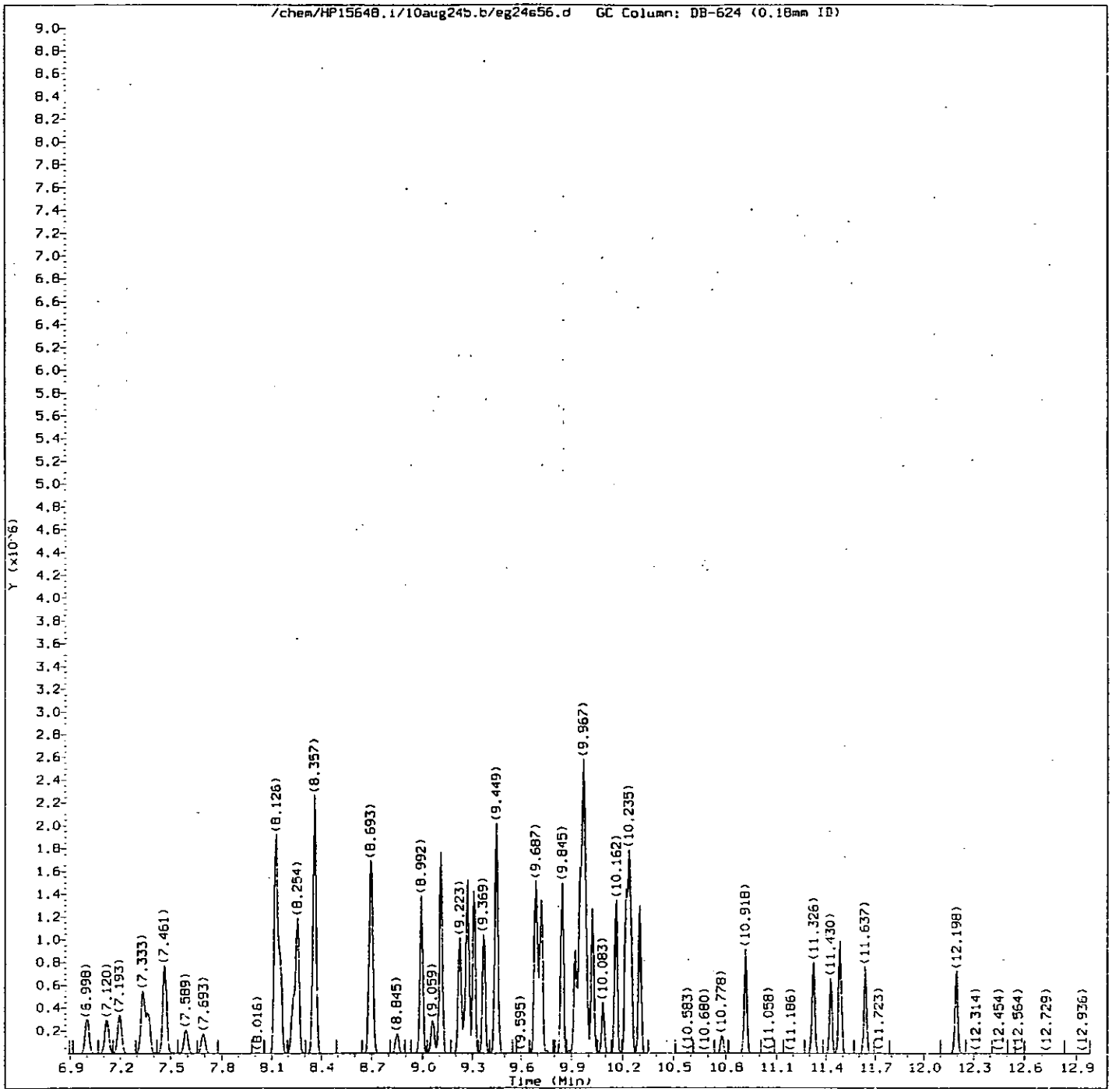
on 08/24/2010 at 20:21.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s56.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMS Lab Sample ID: 6061441MS PTL06 0553

Digitally signed by Sara E. Johnson
on 08/24/2010 at 20:22.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s56.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMS Lab Sample ID: 6061441MS

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.292	85	158655	13.602
2) Chloromethane	(1)	1.359	50	173907	14.618
4) Vinyl Chloride	(1)	1.450	62	175545	15.264
5) Bromomethane	(1)	1.670	94	105045	14.423
6) Chloroethane	(1)	1.737	64	104121	15.319
8) Trichlorofluoromethane	(1)	1.962	101	188510	14.967
15) 1,1-Dichloroethene	(1)	2.322	96	500911	66.649
16) Acetone	(1)	2.353	43	305096	127.687
24) Methylene Chloride	(1)	2.743	84	140085	17.822
25)*t-Butyl Alcohol-d10	(4)	2.767	65	150779	250.000
28) trans-1,2-Dichloroethene	(1)	2.980	96	149277	19.082
29) Methyl Tertiary Butyl Ether	(1)	2.993	73	391077	18.108
33) 1,1-Dichloroethane	(1)	3.371	63	289396	20.670
39) cis-1,2-Dichloroethene	(1)	3.919	96	152594	18.474
40) 2-Butanone	(1)	3.925	43	490019	122.224
41) 2,2-Dichloropropane	(1)	3.925	77	202097	19.356
45) Bromochloromethane	(1)	4.151	128	60124	15.322
47) Chloroform	(1)	4.230	83	232988	18.790
50)$Dibromofluoromethane	(1)	4.383	113	297006	50.070
52) 1,1,1-Trichloroethane	(1)	4.413	97	242817	20.331
55) 1,1-Dichloropropene	(1)	4.566	75	218428	19.355
56) Carbon Tetrachloride	(1)	4.566	117	168062	19.389
59)$1,2-Dichloroethane-d4	(1)	4.712	102	81145	51.520
63) Benzene	(1)	4.767	78	592848	18.367
65) 1,2-Dichloroethane	(1)	4.785	62	169444	18.343
69)*Fluorobenzene	(1)	5.047	96	1326618	50.000
72) Trichloroethene	(1)	5.413	95	152300	18.354
76) 1,2-Dichloropropane	(1)	5.638	63	147441	18.061
78) Dibromomethane	(1)	5.760	93	78431	16.867
81) Bromodichloromethane	(1)	5.931	83	152113	17.401
87) cis-1,3-Dichloropropene	(1)	6.401	75	193124	16.658
88) 4-Methyl-2-Pentanone	(1)	6.577	43	708492	79.595
90)$Toluene-d8	(2)	6.681	98	1318460	50.764
91) Toluene	(2)	6.754	92	378405	18.375
92) trans-1,3-Dichloropropene	(2)	6.998	75	173488	16.476
94) 1,1,2-Trichloroethane	(2)	7.193	97	116780	17.562
96) Tetrachloroethene	(2)	7.333	166	173130	18.081
97) 1,3-Dichloropropane	(2)	7.370	76	201445	17.153
100) Dibromochloromethane	(2)	7.589	129	106635	16.445

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

PTL06 0554

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on 08/24/2010 at 20:22.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s56.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:28 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMS Lab Sample ID: 6061441MS

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
101) 1,2-Dibromoethane	(2)	7.693	107	111396	16.473
103) *Chlorobenzene-d5	(2)	8.126	117	939198	50.000
104) Chlorobenzene	(2)	8.150	112	401329	18.003
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	111654	16.817
107) Ethylbenzene	(2)	8.254	91	719661	18.238
108) m+p-Xylene	(2)	8.357	106	558078	35.996
110) o-Xylene	(2)	8.693	106	268497	17.893
111) Styrene	(2)	8.699	104	416985	17.600
112) Bromoform	(2)	8.845	173	71575	15.056
113) Isopropylbenzene	(2)	8.992	105	725663	18.373
116) $4-Bromofluorobenzene	(2)	9.107	95	464406	50.402
118) Bromobenzene	(3)	9.223	156	157489	17.186
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	165183	16.555
120) 1,2,3-Trichloropropane	(3)	9.260	110	48014	16.313
122) n-Propylbenzene	(3)	9.309	91	864349	18.406
123) 2-Chlorotoluene	(3)	9.369	126	165212	17.643
124) 1,3,5-Trimethylbenzene	(3)	9.443	105	576135	17.963
125) 4-Chlorotoluene	(3)	9.455	126	165901	17.482
127) tert-Butylbenzene	(3)	9.687	134	140137	17.564
130) 1,2,4-Trimethylbenzene	(3)	9.717	105	591034	17.775
132) sec-Butylbenzene	(3)	9.845	105	780329	18.517
133) 1,3-Dichlorobenzene	(3)	9.924	146	309315	17.431
134) p-Isopropyltoluene	(3)	9.949	119	656624	17.922
135) *1,4-Dichlorobenzene-d4	(3)	9.967	152	517747	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	311604	17.358
141) n-Butylbenzene	(3)	10.235	92	325842	17.772
142) 1,2-Dichlorobenzene	(3)	10.247	146	291736	17.186
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	28475	15.958
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	200840	16.252
147) Hexachlorobutadiene	(3)	11.430	225	94011	16.347
148) Naphthalene	(3)	11.485	128	574410	16.122
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	187858	16.382

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

PTL06 0555

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on 08/24/2010 at 20:22.
Target 3.5 esignature user ID: sej02002

XXXXXMSD

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061442MSD

Data file: /chem/HP15648.i/10aug24b.b/eg24s57.d
Data file Sample Info. Line: XXXXXMSD;6061442MSD;1;3;MSD;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Injection date and time: **24-AUG-2010 19:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.012)	290	65	148691 (-24)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1310931 (4)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	927931 (5)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.000)	1473	152	503267 (4)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.393(0.000)	113	289373	49.367	99%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(-0.001)	102	77562M	49.834	100%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1289685	50.220	100%		83 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	459602	50.508	101%		78 - 113

M = Surrogate Standard was manually integrated

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)	1.286(-0.000)	85	179830	15.601	15.60			2
2) Chloromethane	(1)	1.353(0.002)	50	203112	17.277	17.28			1
4) Vinyl Chloride	(1)	1.444(0.002)	62	205753	18.104	18.10			1
5) Bromomethane	(1)	1.664(0.002)	94	124129	17.247	17.25			1
6) Chloroethane	(1)	1.731(0.000)	64	125405	18.671	18.67			1
8) Trichlorofluoromethane	(1)	1.956(0.000)	101	223222	17.935	17.93			2
15) 1,1-Dichloroethene	(1)	2.316(0.001)	96	526149	70.844	70.84			0.8
16) Acetone	(1)	2.346(0.000)	43	316774	134.161	134.16			6
24) Methylene Chloride	(1)	2.736(0.000)	84	148495	19.118	19.12			2
28) trans-1,2-Dichloroethene	(1)	2.974(0.000)	96	162474	21.017	21.02			0.8
29) Methyl Tertiary Butyl Ether	(1)	2.980(0.000)	73	419546	19.659	19.66			0.5
33) 1,1-Dichloroethane	(1)	3.364(0.000)	63	315510	22.805	22.81			1
39) cis-1,2-Dichloroethene	(1)	3.913(0.000)	96	161992	19.846	19.85			0.8
40) 2-Butanone	(1)	3.919(0.001)	43	518209	130.802	130.80			3
41) 2,2-Dichloropropane	(1)	3.925(0.000)	77	216227	20.957	20.96			1
45) Bromochloromethane	(1)	4.145(0.000)	128	67924	17.517	17.52			1
47) Chloroform	(1)	4.224(0.000)	83	247864	20.229	20.23			0.8
52) 1,1,1-Trichloroethane	(1)	4.407(0.000)	97	261106	22.124	22.12			0.8
55) 1,1-Dichloropropene	(1)	4.559(0.000)	75	234499	21.027	21.03			1
56) Carbon Tetrachloride	(1)	4.565(0.000)	117	180820	21.110	21.11			1
63) Benzene	(1)	4.767(0.000)	78	638004	20.002	20.00			0.5
65) 1,2-Dichloroethane	(1)	4.785(0.000)	62	184169	20.176	20.18			1
72) Trichloroethene	(1)	5.413(-0.000)	95	165003	20.122	20.12			1
76) 1,2-Dichloropropane	(1)	5.638(-0.000)	63	158249	19.617	19.62			1
78) Dibromomethane	(1)	5.754(0.001)	93	85855	18.684	18.68			1
81) Bromodichloromethane	(1)	5.931(-0.000)	83	164567	19.051	19.05			1
87) cis-1,3-Dichloropropene	(1)	6.400(-0.001)	75	206271	18.005	18.00			1
88) 4-Methyl-2-Pentanone	(1)	6.571(-0.000)	43	749258	85.183	85.18			3
91) Toluene	(2)	6.754(0.000)	92	407335	20.020	20.02			0.7
92) trans-1,3-Dichloropropene	(2)	6.998(0.000)	75	188902	18.158	18.16			1
94) 1,1,2-Trichloroethane	(2)	7.193(0.000)	97	125633	19.122	19.12			0.8
96) Tetrachloroethene	(2)	7.333(0.000)	166	185877	19.648	19.65			0.8
97) 1,3-Dichloropropane	(2)	7.364(0.000)	76	217206	18.719	18.72			1

PTL06 0856

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XXXXXMSD

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6061442MSD

Data file: /chem/HP15648.i/10aug24b.b/eg24s57.d
Data file Sample Info. Line: XXXXXMSD;6061442MSD;1;3;MSD;;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Injection date and time: **24-AUG-2010 19:48**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **2972**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
100) Dibromochloromethane	(2)	7.589(0.000)	129	114585	17.886	17.89			1
101) 1,2-Dibromoethane	(2)	7.693(0.000)	107	118619	17.754	17.75			1
104) Chlorobenzene	(2)	8.150(-0.000)	112	427476	19.408	19.41			0.8
106) 1,1,1,2-Tetrachloroethane	(2)	8.229(-0.000)	131	122315	18.646	18.65			1
107) Ethylbenzene	(2)	8.254(-0.000)	91	765415	19.633	19.63			0.8
108) m+p-Xylene	(2)	8.357(-0.000)	106	599533	39.139	39.14			0.8
110) o-Xylene	(2)	8.693(-0.000)	106	289540	19.530	19.53			0.8
111) Styrene	(2)	8.705(-0.000)	104	449370	19.197	19.20			1
112) Bromoform	(2)	8.845(0.000)	173	76679	16.325	16.33			1
113) Isopropylbenzene	(2)	8.991(-0.000)	105	784606	20.106	20.11			1
119) 1,1,2,2-Tetrachloroethane	(3)	9.229(0.000)	83	171462	17.678	17.68			1
118) Bromobenzene	(3)	9.223(0.000)	156	169003	18.972	18.97			1
120) 1,2,3-Trichloropropane	(3)	9.260(0.000)	110	50337	17.593	17.59			1
122) n-Propylbenzene	(3)	9.308(0.000)	91	921174	20.179	20.18			1
123) 2-Chlorotoluene	(3)	9.376(0.000)	126	175246	19.252	19.25			1
124) 1,3,5-Trimethylbenzene	(3)	9.442(0.000)	105	613998	19.694	19.69			1
125) 4-Chlorotoluene	(3)	9.455(0.000)	126	176259	19.108	19.11			1
127) tert-Butylbenzene	(3)	9.686(0.000)	134	151426	19.524	19.52			1
130) 1,2,4-Trimethylbenzene	(3)	9.723(0.000)	105	631888	19.550	19.55			1
132) sec-Butylbenzene	(3)	9.845(0.000)	105	821163	20.046	20.05			1
134) p-Isopropyltoluene	(3)	9.948(0.000)	119	703280	19.747	19.75			1
133) 1,3-Dichlorobenzene	(3)	9.924(0.000)	146	334334	19.382	19.38			1
136) 1,4-Dichlorobenzene	(3)	9.985(-0.000)	146	336563	19.287	19.29			1
141) n-Butylbenzene	(3)	10.235(-0.000)	92	347168	19.479	19.48			1
142) 1,2-Dichlorobenzene	(3)	10.247(-0.000)	146	317452	19.238	19.24			1
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778(-0.000)	75	29831	17.180	17.18			2
146) 1,2,4-Trichlorobenzene	(3)	11.326(-0.000)	180	219763	18.294	18.29			1
147) Hexachlorobutadiene	(3)	11.430(-0.000)	225	103243	18.468	18.47			2
148) Naphthalene	(3)	11.485(-0.000)	128	608124	17.559	17.56			1
149) 1,2,3-Trichlorobenzene	(3)	11.637(0.000)	180	201661	18.091	18.09			1

Total number of targets = 53

Comments:

PTL86 0557

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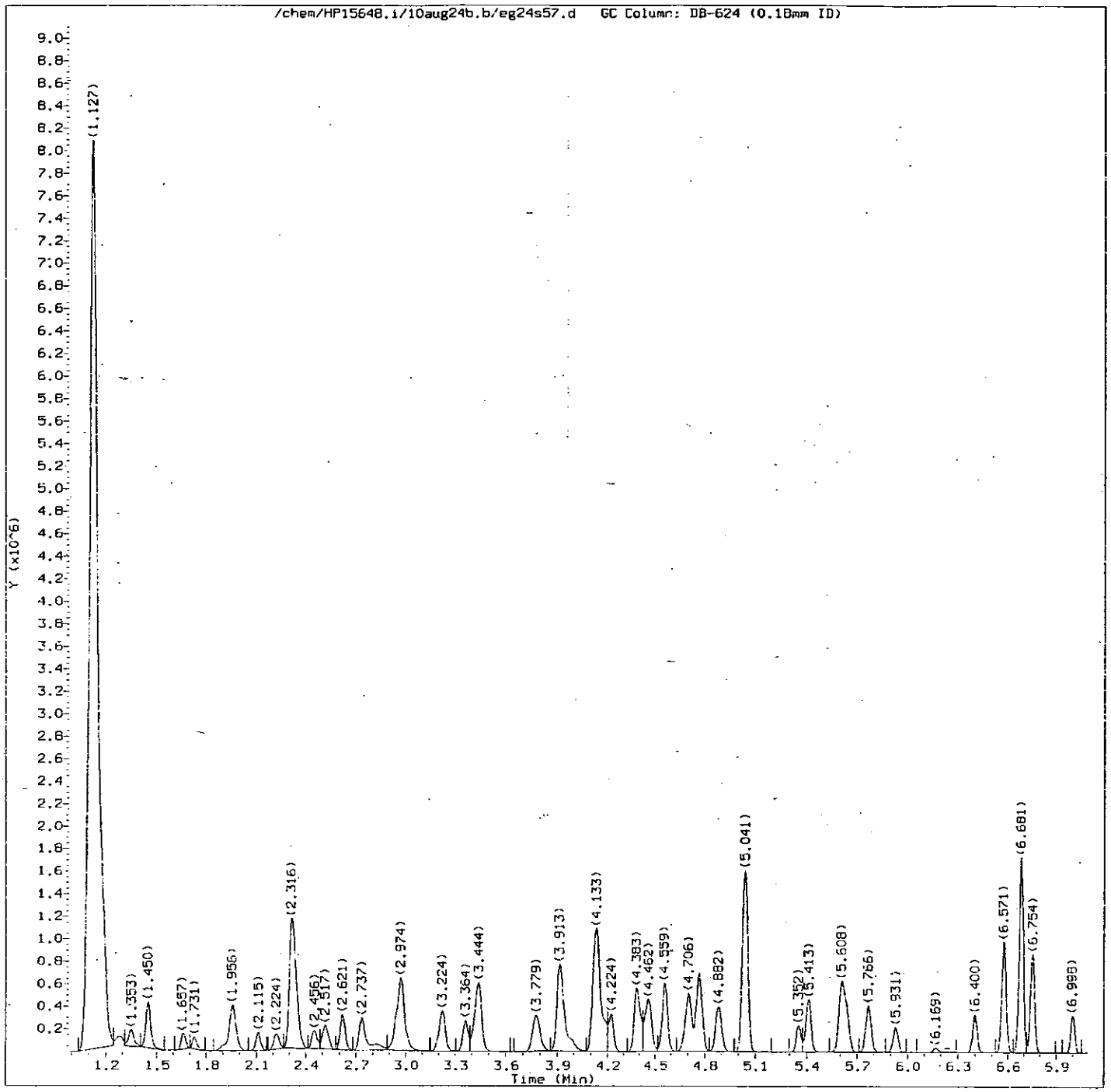
Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s57.d
Injection date and time: 24-AUG-2010 19:48

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 2972

Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMSD

Lab Sample ID: 6061442MSD

PTL06 8558

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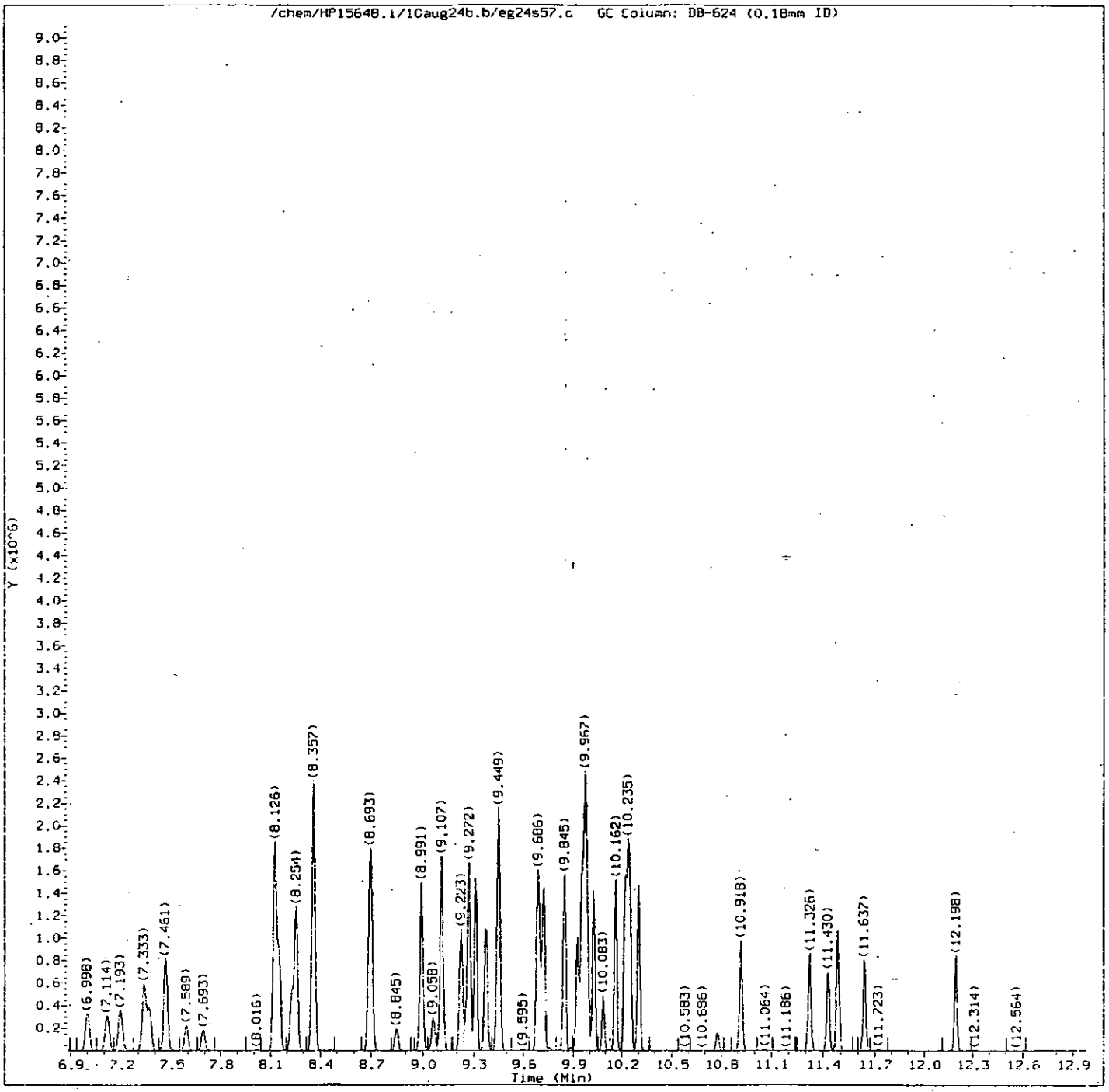
on 08/24/2010 at 20:22.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s57.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMSD Lab Sample ID: 6061442MSD PTL86 0559

Digitally signed by Sara E. Johnson
on 08/24/2010 at 20:22.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s57.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMSD Lab Sample ID: 6061442MSD

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.286	85	179830	15.601
2) Chloromethane	(1)	1.353	50	203112	17.277
4) Vinyl Chloride	(1)	1.444	62	205753	18.104
5) Bromomethane	(1)	1.664	94	124129	17.247
6) Chloroethane	(1)	1.731	64	125406	18.671
8) Trichlorofluoromethane	(1)	1.956	101	223222	17.935
15) 1,1-Dichloroethene	(1)	2.316	96	526149	70.844
16) Acetone	(1)	2.346	43	316774	134.161
24) Methylene Chloride	(1)	2.737	84	148495	19.118
25)*t-Butyl Alcohol-d10	(4)	2.755	65	148691	250.000
28) trans-1,2-Dichloroethene	(1)	2.974	96	162474	21.017
29) Methyl Tertiary Butyl Ether	(1)	2.980	73	419546	19.659
33) 1,1-Dichloroethane	(1)	3.364	63	315510	22.805
39) cis-1,2-Dichloroethene	(1)	3.913	96	161992	19.846
40) 2-Butanone	(1)	3.919	43	518209	130.802
41) 2,2-Dichloropropane	(1)	3.925	77	216227	20.957
45) Bromochloromethane	(1)	4.145	128	67924	17.517
47) Chloroform	(1)	4.224	83	247864	20.229
50)$Dibromofluoromethane	(1)	4.383	113	289373	49.367
52) 1,1,1-Trichloroethane	(1)	4.407	97	261106	22.124
55) 1,1-Dichloropropene	(1)	4.559	75	234499	21.027
56) Carbon Tetrachloride	(1)	4.565	117	180820	21.110
59)$1,2-Dichloroethane-d4	(1)	4.712	102	77562M	49.834
63) Benzene	(1)	4.767	78	638004	20.002
65) 1,2-Dichloroethane	(1)	4.785	62	184169	20.176
69)*Fluorobenzene	(1)	5.041	96	1310931	50.000
72) Trichloroethene	(1)	5.413	95	165003	20.122
76) 1,2-Dichloropropane	(1)	5.638	63	158249	19.617
78) Dibromomethane	(1)	5.754	93	85855	18.684
81) Bromodichloromethane	(1)	5.931	83	164567	19.051
87) cis-1,3-Dichloropropene	(1)	6.400	75	206271	18.005
88) 4-Methyl-2-Pentanone	(1)	6.571	43	749258	85.183
90)$Toluene-d8	(2)	6.681	98	1288685	50.220
91) Toluene	(2)	6.754	92	407335	20.020
92) trans-1,3-Dichloropropene	(2)	6.998	75	188902	18.158
94) 1,1,2-Trichloroethane	(2)	7.193	97	125633	19.122
96) Tetrachloroethene	(2)	7.333	166	185877	19.648
97) 1,3-Dichloropropane	(2)	7.364	76	217206	18.719
100) Dibromochloromethane	(2)	7.589	129	114585	17.886

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL86 0560

Digitally signed by Sara E. Johnson
on 08/24/2010 at 20:22.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24s57.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMSD Lab Sample ID: 6061442MSD

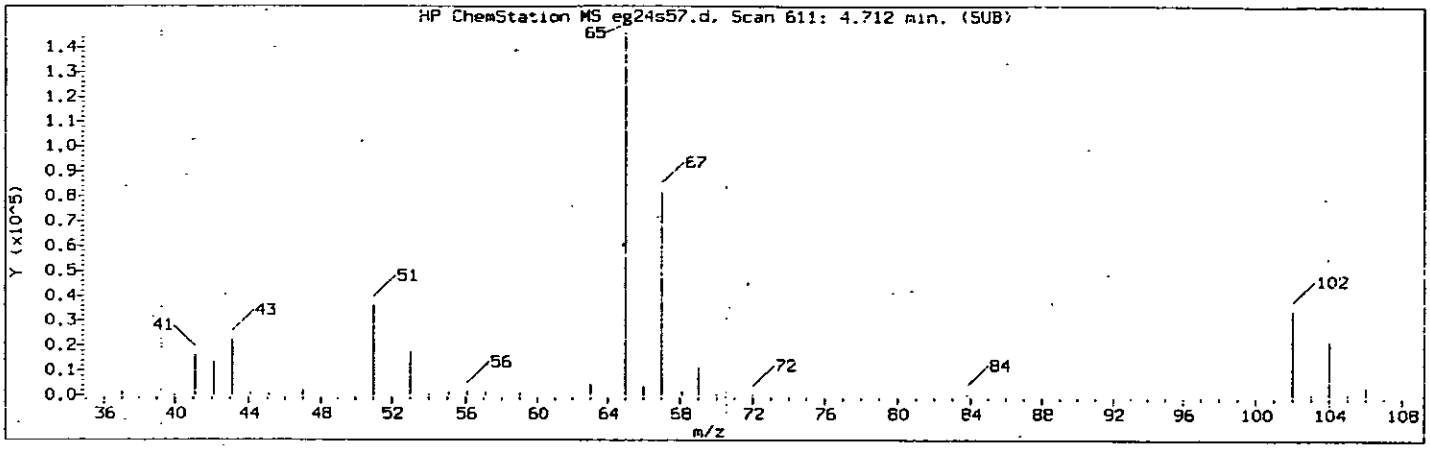
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
101) 1,2-Dibromoethane	(2)	7.693	107	118619	17.754
103) *Chlorobenzene-d5	(2)	8.126	117	927934	50.000
104) Chlorobenzene	(2)	8.150	112	427476	19.408
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	122315	18.646
107) Ethylbenzene	(2)	8.254	91	765415	19.633
108) m+p-Xylene	(2)	8.357	106	599533	39.139
110) o-Xylene	(2)	8.693	106	289540	19.530
111) Styrene	(2)	8.705	104	449370	19.197
112) Bromoform	(2)	8.845	173	76679	16.325
113) Isopropylbenzene	(2)	8.991	105	784606	20.106
116) $4-Bromofluorobenzene	(2)	9.107	95	459802	50.508
118) Bromobenzene	(3)	9.223	156	169003	18.972
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	171462	17.678
120) 1,2,3-Trichloropropane	(3)	9.260	110	50337	17.593
122) n-Propylbenzene	(3)	9.308	91	921174	20.179
123) 2-Chlorotoluene	(3)	9.376	126	175246	19.252
124) 1,3,5-Trimethylbenzene	(3)	9.443	105	613998	19.694
125) 4-Chlorotoluene	(3)	9.455	126	176259	19.108
127) tert-Butylbenzene	(3)	9.686	134	151426	19.524
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	631888	19.550
132) sec-Butylbenzene	(3)	9.845	105	821163	20.046
133) 1,3-Dichlorobenzene	(3)	9.924	146	334334	19.382
134) p-Isopropyltoluene	(3)	9.949	119	703280	19.747
135) *1,4-Dichlorobenzene-d4	(3)	9.967	152	503287	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	336563	19.287
141) n-Butylbenzene	(3)	10.235	92	347168	19.479
142) 1,2-Dichlorobenzene	(3)	10.247	146	317452	19.238
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	29831	17.180
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	219763	18.294
147) Hexachlorobutadiene	(3)	11.430	225	103243	18.468
148) Naphthalene	(3)	11.485	128	608124	17.559
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	201661	18.091

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

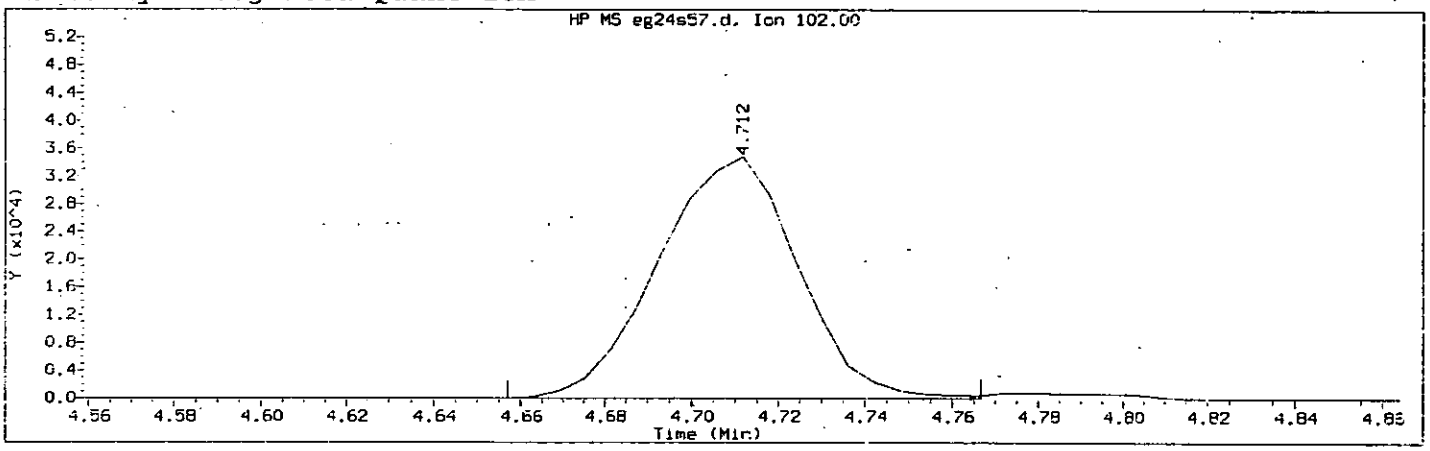
PTL06 8561

Digitally signed by Sara E. Johnson
on 08/24/2010 at 20:22.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24s57.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 2972
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:21 sej02002

Sample Name: XXXXXMSD Lab Sample ID: 6061442MSD

Compound Number	: 59		
Compound Name	: 1,2-Dichloroethane-d4		
Scan Number	: 611		
Retention Time (minutes)	: 4.712		
Quant Ion	: 102.00		
Area (flag)	: 77562M		
On-Column Amount (ng)	: 49.8342		
Integration start scan	: 601	Integration stop scan:	619
Y at integration start	: 0	Y at integration end:	0

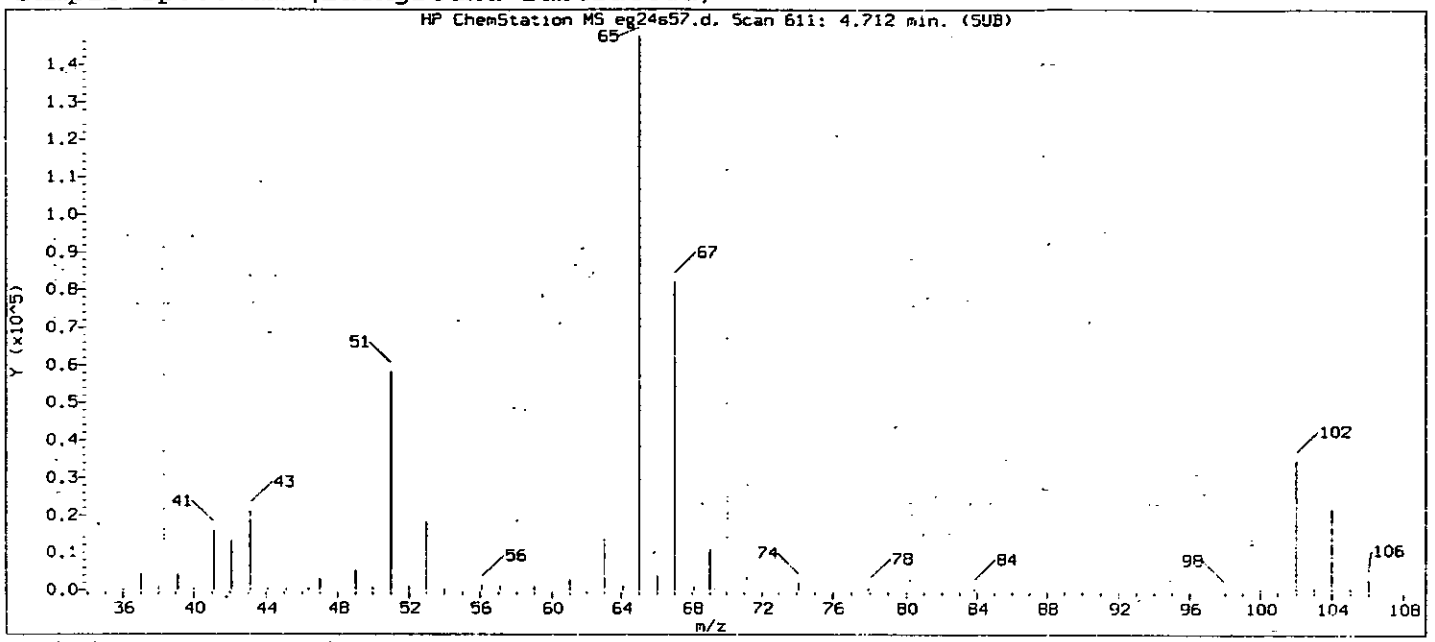
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 20:22. Target 3.5 esignature user ID: sej02002

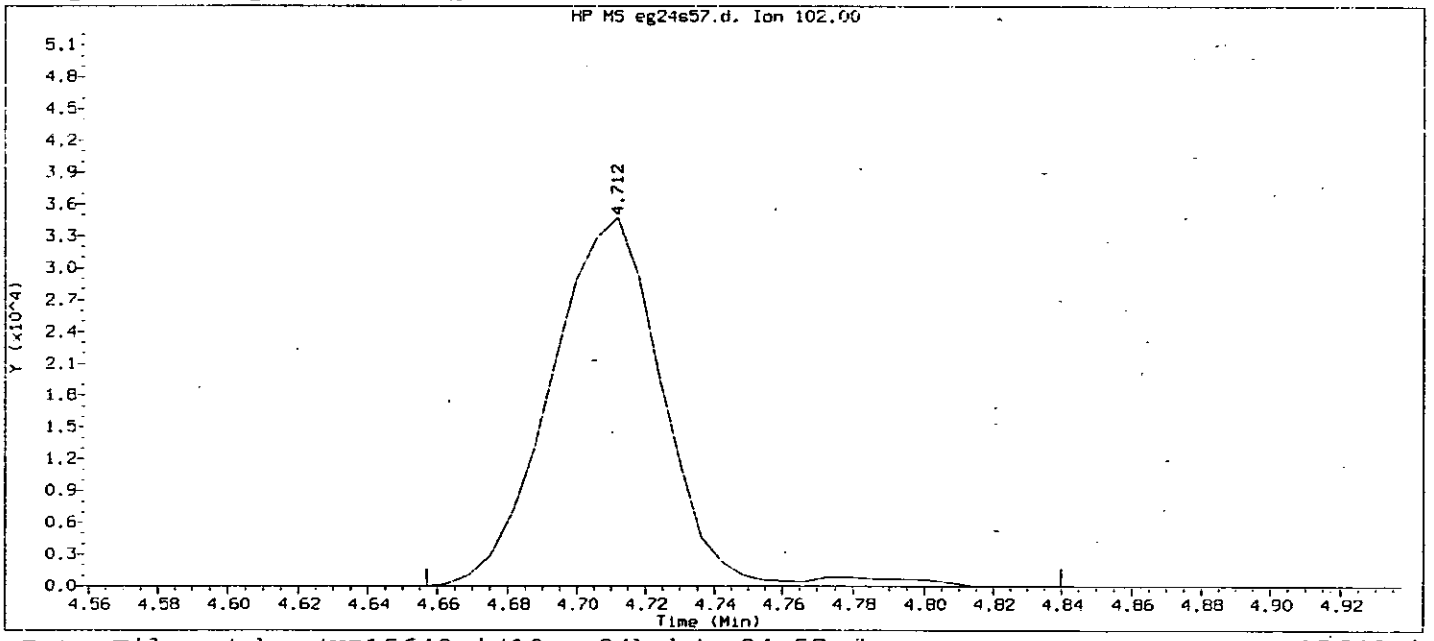
PTL06 0562

GC/MS audit/management approval: [illegible] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24s57.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 19:48 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 20:05 Automation

Sample Name: XXXXXMSD Lab Sample ID: 6061442MSD

Compound Number : 59
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 611
Retention Time (minutes): 4.712
Quant Ion : 102.00
Area : 79276
On-column Amount (ng) : 50.9358
Integration start scan : 601 Integration stop scan: 631
Y at integration start : 0 Y at integration end: 0

PTL06 0563

Digitally signed by Sara E. Johnson on 08/24/2010 at 20:22.
Target 3.5 esignature user ID: sej02002

LCSE06 Lancaster Laboratories Analysis Summary for GC/MS Volatiles LCSE06

Data file: /chem/HP15648.i/10aug24b.b/eg24151.d
Data file Sample Info. Line: LCSE06;LCSE06;1;3;LCS;;;
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Injection date and time: **24-AUG-2010 16:49**
Instrument ID: **HP15648.i** Batch: **E102362AA**

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **8260W-F**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.006)	291	65	198037 (1)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1231045 (-2)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	873971 (-1)	50.00	
135) 1,4-Dichlorobenzene-d4	9.973(-0.006)	1474	152	475348 (-2)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RPT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.382(0.000)	113	273607	49.706	99%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(-0.001)	102	72744	49.772	100%		77 - 113
90) Toluene-d8	(2)	6.687(0.000)	98	1222587	50.586	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	428278	49.950	100%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)	1.279(0.000)	85	164768	15.222	15.22			2
2) Chloromethane	(1)	1.352(0.002)	50	186122	16.859	16.86			1
3) 1,3-Butadiene	(1)	1.456(-0.000)	39	135059	19.428	19.43			1
4) Vinyl Chloride	(1)	1.444(0.002)	62	188498	17.662	17.66			1
5) Bromomethane	(1)	1.663(0.002)	94	115871	17.144	17.14			1
6) Chloroethane	(1)	1.730(0.000)	64	114392	18.137	18.14			1
8) Trichlorofluoromethane	(1)	1.956(0.000)	101	198197	16.958	16.96			2
9) n-Pentane	(1)	1.962(0.028)	43	240781A	18.734	18.73			2
12) Ethyl Ether	(1)	2.115(0.000)	59	108855	18.137	18.14			2
14) Acrolein	(4)	2.224(0.000)	56	295862	132.966	132.97			40
15) 1,1-Dichloroethene	(1)	2.322(0.000)	96	144997	20.790	20.79			0.8
17) Freon 113	(1)	2.334(0.001)	101	147444	21.006	21.01			2
16) Acetone	(1)	2.346(0.000)	43	597785	269.605	269.61			6
18) Methyl Iodide	(1)	2.456(0.000)	142	238254	20.725	20.73			1
21) Carbon Disulfide	(1)	2.523(0.000)	76	409940	21 289	21.29			1
22) Allyl Chloride	(1)	2.621(0.000)	41	211604	18 847	18.85			1
23) Methyl Acetate	(1)	2.633(0.000)	43	144176	24.379	24.38			1
24) Methylene Chloride	(1)	2.742(-0.000)	84	145370	19.936	19.93			2
26) t-Butyl Alcohol	(4)	2.834(-0.002)	59	196566M	207.049	207.05			10
27) Acrylonitrile	(1)	2.950(0.000)	53	392317	118.112	118.11			4
28) trans-1,2-Dichloroethene	(1)	2.980(-0.000)	96	148629	20.474	20.47			0.8
29) Methyl Tertiary Butyl Ether	(1)	2.986(-0.000)	73	408739	20.395	20.40			0.5
31) n-Hexane	(1)	3.224(0.000)	57	227424	20.171	20.17			2
36) 1,2-Dichloroethene (total)	(1)		96	302236	40.514	40.51			0.8
33) 1,1-Dichloroethane	(1)	3.364(0.000)	63	268997	20.705	20.71			1
34) di-Isopropyl Ether	(1)	3.431(0.000)	45	439817	20.093	20.09			0.8
35) 2-Chloro-1,3-Butadiene	(1)	3.450(0.000)	53	237679	23.514	23 51			1
37) Ethyl t-Butyl Ether	(1)	3.779(0.000)	59	410081M	20.070	20.07			0.8
39) cis-1,2-Dichloroethene	(1)	3.919(-0.000)	96	153607	20.040	20.04			0.8
40) 2-Butanone	(1)	3.919(0.001)	43	797568	214.380	214.38			3
41) 2,2-Dichloropropane	(1)	3.925(0.000)	77	199926	20.635	20.63			1
42) Propionitrile	(4)	3.992(-0.003)	54	239536	153.135	153.13			30
44) Methacrylonitrile	(1)	4.132(0.000)	67	622260	183.839	183.84			10
45) Bromochloromethane	(1)	4.145(0.000)	128	68966	18.940	18.94			1

A = User selected an alternate peak. M = Compound was manually integrated.

PTL0608564

Digitally signed by Sara E. Johnson on 08/24/2010 at 17:10. Target 3.5 esignature user ID: sej02002

LCSE06 Lancaster Laboratories Analysis Summary for GC/MS Volatiles LCSE06

Data file: /chem/HP15648.i/10aug24b.b/eg24151.d Injection date and time: **24-AUG-2010 16:49**
Data file Sample Info. Line: LCSE06;LCSE06;1;3;LCS;;; Instrument ID: **HP15648.i** Batch: **E102362AA**
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **8260W-P**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
46) Tetrahydrofuran	(4)	4.187(-0.001)	71	141591	97.791	97.79			4
47) Chloroform	(1)	4.230(-0.001)	83	229249	19.924	19.92			0.8
52) 1,1,1-Trichloroethane	(1)	4.407(0.000)	97	233395	21.059	21.06			0.8
53) Cyclohexane	(1)	4.462(0.000)	56	292887	21.526	21.53			2
55) 1,1-Dichloropropene	(1)	4.559(0.050)	75	213514	20.398	20.40			1
56) Carbon Tetrachloride	(1)	4.571(-0.001)	117	163475	20.324	20.32			1
58) Isobutyl Alcohol	(4)	4.587(-0.001)	41	159211	495.821	495.82			100
63) Benzene	(1)	4.766(0.000)	78	595365	19.870	19.87			0.5
65) 1,2-Dichloroethane	(1)	4.785(0.000)	62	175995	20.532	20.53			1
67) t-Amyl Methyl Ether	(1)	4.888(-0.001)	73	395889	19.966	19.97			0.8
68) n-Heptane	(1)	5.035(0.000)	43	220192	19.631	19.63			2
71) n-Butanol	(4)	5.358(-0.004)	56	250036	880.647	880.65			100
72) Trichloroethene	(1)	5.413(-0.000)	95	152958	19.864	19.86			1
76) 1,2-Dichloropropane	(1)	5.644(-0.001)	63	148795	19.642	19.64			1
74) Methylcyclohexane	(1)	5.608(-0.000)	83	261097	19.709	19.71			1
79) Methyl Methacrylate	(1)	5.772(-0.001)	69	125216	19.708	19.71			1
78) Dibromomethane	(1)	5.760(-0.000)	93	85918	19.911	19.91			1
80) 1,4-Dioxane	(4)	5.785(-0.004)	88	38227	415.914	415.91			70
81) Bromodichloromethane	(1)	5.931(-0.000)	83	154539	19.051	19.05			1
82) 2-Nitropropane	(1)	6.175(-0.001)	41	32703M	23.072	23.07			2
83) 2-Chloroethyl Vinyl Ether	(1)	6.254(-0.000)	63	105683	20.415	20.41			2
87) cis-1,3-Dichloropropene	(1)	6.400(-0.001)	75	200347	18.622	18.62			1
88) 4-Methyl-2-Pentanone	(1)	6.577(-0.001)	43	979651	118.603	118.60			3
91) Toluene	(2)	6.754(0.000)	92	378223	19.737	19.74			0.7
92) trans-1,3-Dichloropropene	(2)	7.004(0.000)	75	186489	19.033	19.03			1
93) Ethyl Methacrylate	(2)	7.120(0.000)	69	190495	23.505	23.50			1
94) 1,1,2-Trichloroethane	(2)	7.139(0.000)	97	124857	20.177	20.18			0.8
96) Tetrachloroethene	(2)	7.333(0.000)	166	176911	19.859	19.86			0.8
97) 1,3-Dichloropropane	(2)	7.370(0.000)	76	216903	19.848	19.85			1
98) 2-Hexanone	(2)	7.467(0.000)	43	739956	135.651	135.65			3
100) Dibromochloromethane	(2)	7.589(0.000)	129	113440	18.801	18.80			1
101) 1,2-Dibromoethane	(2)	7.693(0.000)	107	124219	19.740	19.74			1
104) Chlorobenzene	(2)	8.150(-0.000)	112	408977	19.715	19.72			0.8
106) 1,1,1,2-Tetrachloroethane	(2)	8.229(0.000)	131	115332	18.667	18.67			1
107) Ethylbenzene	(2)	8.254(-0.000)	91	735764	20.038	20.04			0.8
108) m+p-Xylene	(2)	8.357(-0.000)	106	571802	39.634	39.63			0.8
105) Xylene (Total)	(2)		106	846501	59.307	59.31			0.8
110) o-Xylene	(2)	8.692(-0.000)	106	274699	19.673	19.67			0.8
111) Styrene	(2)	8.705(-0.000)	104	433741	19.673	19.67			1
112) Bromoform	(2)	8.851(-0.000)	173	82557	18.662	18.66			1
113) Isopropylbenzene	(2)	8.991(-0.000)	105	732841	19.939	19.94			1
115) Cyclohexanone	(4)	9.058(-0.007)	55	153331	491.619	491.62			55
119) 1,1,2,2-Tetrachloroethane	(3)	9.229(0.000)	83	193673	21.142	21.14			1
121) trans-1,4-Dichloro-2-Butene	(3)	9.272(0.000)	53	301219	109.713	109.71			15
118) Bromobenzene	(3)	9.223(0.000)	156	162323	19.293	19.29			1
120) 1,2,3-Trichloropropane	(3)	9.269(0.000)	110	60278	22.306	22.31			1
122) n-Propylbenzene	(3)	9.308(0.001)	91	876762	20.335	20.34			1
123) 2-Chlorotoluene	(3)	9.375(0.000)	126	169409	19.705	19.70			1
124) 1,3,5-Trimethylbenzene	(3)	9.448(0.000)	105	584113	19.837	19.84			1
125) 4-Chlorotoluene	(3)	9.455(0.000)	126	169486	19.453	19.45			1
127) tert-Butylbenzene	(3)	9.686(0.000)	134	145185	19.819	19.82			1
128) Pentachloroethane	(3)	9.698(0.000)	167	81034	18.484	18.48			1
130) 1,2,4-Trimethylbenzene	(3)	9.723(0.000)	105	604361	19.797	19.80			1
132) sec-Butylbenzene	(3)	9.845(0.000)	105	780197	20.165	20.17			1
134) p-Isopropyltoluene	(3)	9.948(0.000)	119	656506	19.517	19.52			1

M = Compound was manually integrated.

PTL06:0565

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LCSE06 Lancaster Laboratories LCSE06

Analysis Summary for GC/MS Volatiles

Data file: /chem/HP15648.i/10aug24b.b/eg24151.d Injection date and time: **24-AUG-2010 16:49**
Data file Sample Info. Line: LCSE06;LCSE06;1;3;LCS;;; Instrument ID: **HP15648.i** Batch: **E102362AA**
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Blank Data file reference: **/chem/HP15648.i/10aug24b.b/eg24b51.d**

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: **8260W-P**
Calibration date and time (Last Method Edit): 24-AUG-2010 16:58
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug24b.b/eg24c51.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
133) 1,3-Dichlorobenzene	(3)	9.924(0.000)	146	320738	19.687	19.69			1
136) 1,4-Dichlorobenzene	(3)	9.985(0.000)	146	317618	19.271	19.27			1
137) 1,2,3-Trimethylbenzene	(3)	10.022(0.000)	105	594283	19.876	19.88			1
138) Benzyl Chloride	(3)	10.082(0.000)	91	293960	19.551	19.55			1
139) 1,3-Diethylbenzene	(3)	10.162(0.000)	105	386359	19.913	19.91			1
140) 1,4-Diethylbenzene	(3)	10.217(0.000)	105	358684	19.880	19.88			1
141) n-Butylbenzene	(3)	10.235(0.000)	92	324601	19.283	19.28			1
142) 1,2-Dichlorobenzene	(3)	10.247(0.000)	146	302809	19.429	19.43			1
143) 1,2-Diethylbenzene	(3)	10.302(0.000)	105	358966	19.845	19.85			1
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778(0.000)	75	41081	24.892	24.89			2
146) 1,2,4-Trichlorobenzene	(3)	11.326(0.000)	180	208955	18.416	18.42			1
147) Hexachlorobutadiene	(3)	11.430(0.000)	225	95600	18.106	18.11			2
148) Naphthalene	(3)	11.485(0.000)	128	683839	20.906	20.91			1
149) 1,2,3-Trichlorobenzene	(3)	11.643(0.000)	180	200875	19.079	19.08			1
152) 2-Methylnaphthalene	(3)	12.198(0.000)	142	349052	20.198	20.20			2

Total number of targets = 104

Comments:

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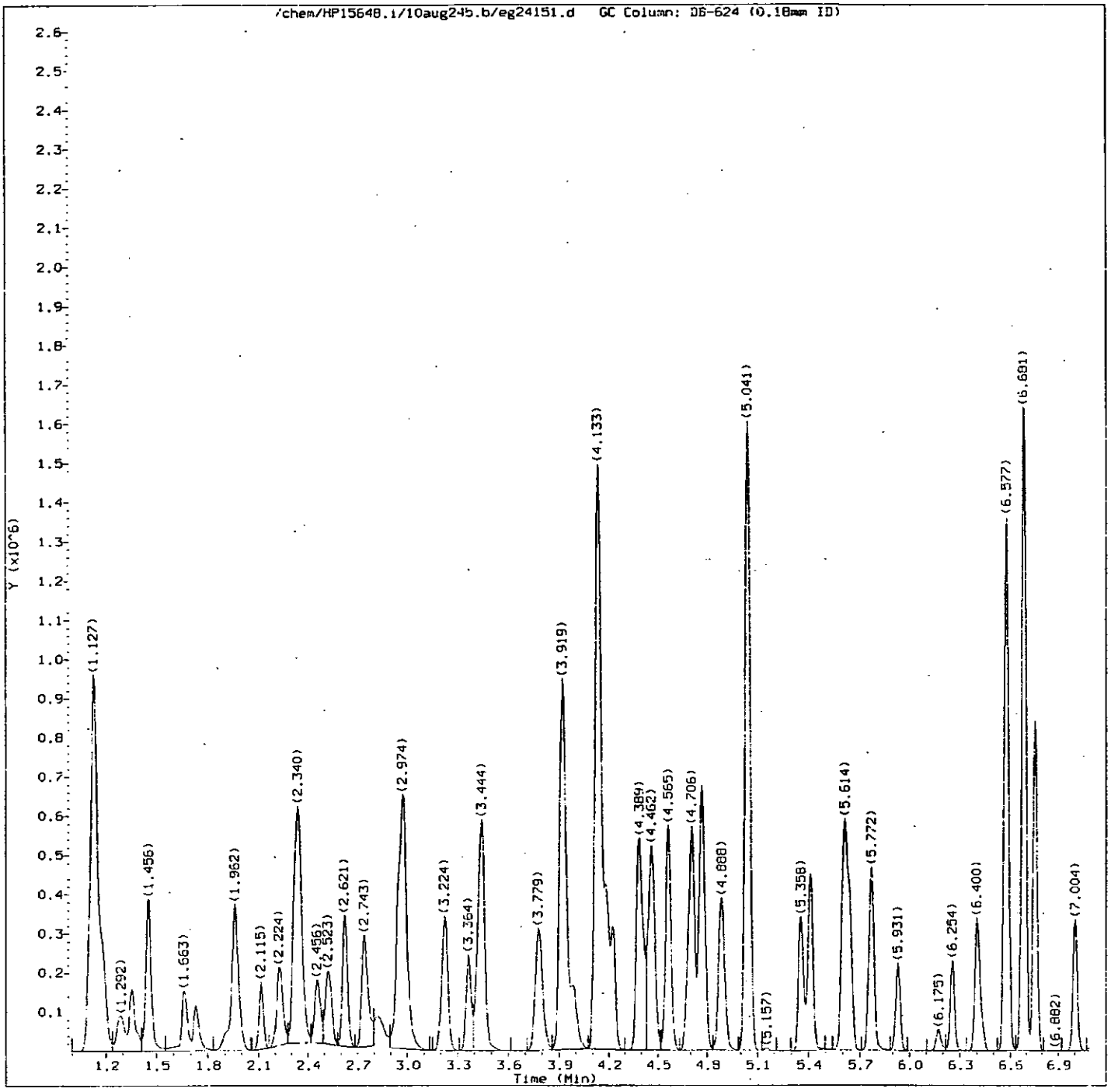
PTL06 0566

Auditor: Date: 8/25/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sample Name: LCSE06 Lab Sample ID: LCSE06 PTL86 8267

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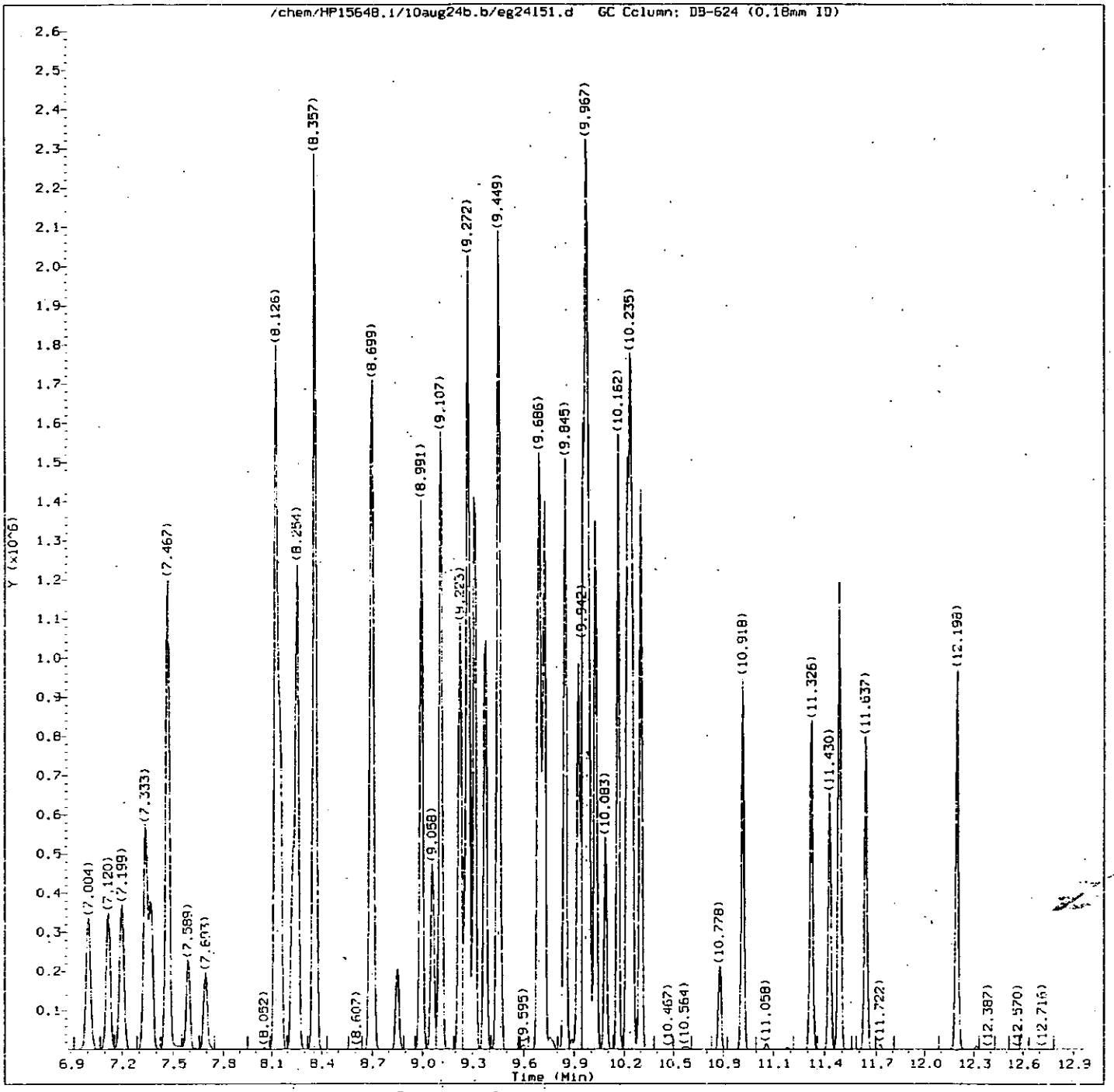
on 08/24/2010 at 17:10.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sample Name: LCSE06 Lab Sample ID: LCSE06 PTL06 0568

Digitally signed by Sara E. Johnson
on 08/24/2010 at 17:10.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24151.d
Injection date and time: 24-AUG-2010 16:49

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58

Sublist used: 8260W-F

Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sample Name: LCSE06

Lab Sample ID: LCSE06

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.279	85	164768	15.222
2) Chloromethane	(1)	1.353	50	186122	16.859
4) Vinyl Chloride	(1)	1.444	62	188498	17.662
3) 1,3-Butadiene	(1)	1.456	39	135059	19.428
5) Bromomethane	(1)	1.663	94	115871	17.144
6) Chloroethane	(1)	1.731	64	114392	18.137
8) Trichlorofluoromethane	(1)	1.956	101	198197	16.958
9) n-Pentane	(1)	1.962	43	240781A	18.734
12) Ethyl Ether	(1)	2.115	59	108855	18.137
14) Acrolein	(4)	2.224	56	295862	132.966
15) 1,1-Dichloroethene	(1)	2.322	96	144997	20.790
17) Freon 113	(1)	2.334	101	147444	21.006
16) Acetone	(1)	2.346	43	597785	269.605
18) Methyl Iodide	(1)	2.456	142	238254	20.725
21) Carbon Disulfide	(1)	2.523	76	409940	21.289
22) Allyl Chloride	(1)	2.621	41	211604	18.847
23) Methyl Acetate	(1)	2.633	43	144176	24.379
24) Methylene Chloride	(1)	2.743	84	145370	19.930
25)*t-Butyl Alcohol-d10	(4)	2.761	65	198037	250.000
26) t-Butyl Alcohol	(4)	2.834	59	196566M	207.049
27) Acrylonitrile	(1)	2.950	53	392317	118.112
28) trans-1,2-Dichloroethene	(1)	2.980	96	148629	20.474
29) Methyl Tertiary Butyl Ether	(1)	2.986	73	408739	20.395
31) n-Hexane	(1)	3.224	57	227424	20.171
33) 1,1-Dichloroethane	(1)	3.364	63	268997	20.705
34) di-Isopropyl Ether	(1)	3.431	45	439817	20.093
35) 2-Chloro-1,3-Butadiene	(1)	3.450	53	237679	23.514
36) 1,2-Dichloroethene (total)	(1)		96	302236	40.514
37) Ethyl t-Butyl Ether	(1)	3.779	59	410081M	20.070
39) cis-1,2-Dichloroethene	(1)	3.919	96	153607	20.040
40) 2-Butanone	(1)	3.919	43	797568	214.380
41) 2,2-Dichloropropane	(1)	3.925	77	199926	20.635
42) Propionitrile	(4)	3.992	54	239536	153.135
44) Methacrylonitrile	(1)	4.133	67	622260	183.839
45) Bromochloromethane	(1)	4.145	128	68966	18.940
46) Tetrahydrofuran	(4)	4.187	71	141981	97.791
47) Chloroform	(1)	4.230	83	229249	19.924
50)$Dibromofluoromethane	(1)	4.382	113	273607	49.706
52) 1,1,1-Trichloroethane	(1)	4.407	97	233395	21.059

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0569

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on 08/24/2010 at 17:10.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24151.d
Injection date and time: 24-AUG-2010 16:49

Instrument ID: HP15648.i
Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sublist used: 8260W-F

Sample Name: LCSE06

Lab Sample ID: LCSE06

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
53) Cyclohexane	(1)	4.462	56	292887	21.526
55) 1,1-Dichloropropene	(1)	4.559	75	213614	20.398
56) Carbon Tetrachloride	(1)	4.571	117	163475	20.324
58) Isobutyl Alcohol	(4)	4.687	41	159211	495.821
59)$1,2-Dichloroethane-d4	(1)	4.712	102	72744	49.772
63) Benzene	(1)	4.767	78	595165	19.870
65) 1,2-Dichloroethane	(1)	4.785	62	175995	20.532
67) t-Amyl Methyl Ether	(1)	4.888	73	395889	19.966
68) n-Heptane	(1)	5.035	43	220192	19.631
69)*Fluorobenzene	(1)	5.041	96	1231045	50.000
71) n-Butanol	(4)	5.358	56	250036	880.647
72) Trichloroethene	(1)	5.413	95	152958	19.864
74) Methylcyclohexane	(1)	5.608	83	281097	19.709
76) 1,2-Dichloropropane	(1)	5.644	63	148795	19.642
78) Dibromomethane	(1)	5.760	93	85918	19.911
79) Methyl Methacrylate	(1)	5.772	69	125216	19.708
80) 1,4-Dioxane	(4)	5.785	88	38227	415.914
81) Bromodichloromethane	(1)	5.931	83	154539	19.051
82) 2-Nitropropane	(1)	6.175	41	32703M	23.072
83) 2-Chloroethyl Vinyl Ether	(1)	6.254	63	105683	20.415
87) cis-1,3-Dichloropropene	(1)	6.400	75	200347	18.622
88) 4-Methyl-2-Pentanone	(1)	6.577	43	979651	118.603
90)$Toluene-d8	(2)	6.687	98	1222587	50.586
91) Toluene	(2)	6.754	92	378223	19.737
92) trans-1,3-Dichloropropene	(2)	7.004	75	186489	19.033
93) Ethyl Methacrylate	(2)	7.120	69	190495	23.505
94) 1,1,2-Trichloroethane	(2)	7.199	97	124857	20.177
96) Tetrachloroethene	(2)	7.333	166	176911	19.855
97) 1,3-Dichloropropane	(2)	7.370	76	216903	19.848
98) 2-Hexanone	(2)	7.467	43	739956	135.651
100) Dibromochloromethane	(2)	7.589	129	113440	18.801
101) 1,2-Dibromoethane	(2)	7.693	107	124219	19.740
103)*Chlorobenzene-d5	(2)	8.125	117	873971	50.000
104) Chlorobenzene	(2)	8.150	112	408977	19.715
105) Xylene (Total)	(2)		106	846501	59.307
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	115332	18.667
107) Ethylbenzene	(2)	8.254	91	735764	20.038
108) m+p-Xylene	(2)	8.357	106	571802	39.634
110) o-Xylene	(2)	8.693	106	274699	19.673

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0571

Digitally signed by Sara E. Johnson
on 08/24/2010 at 17:10.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sample Name: LCSE06 Lab Sample ID: LCSE06

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
111) Styrene	(2)	8.705	104	433741	19.673
112) Bromoform	(2)	8.851	173	82557	18.662
113) Isopropylbenzene	(2)	8.991	105	732841	19.939
115) Cyclohexanone	(4)	9.058	55	153331	491.619
116)$4-Bromofluorobenzene	(2)	9.107	95	428278	49.950
118) Bromobenzene	(3)	9.223	156	162323	19.293
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	193673	21.142
120) 1,2,3-Trichloropropane	(3)	9.260	110	60278	22.306
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	301219	109.713
122) n-Propylbenzene	(3)	9.308	91	876762	20.335
123) 2-Chlorotoluene	(3)	9.375	126	169409	19.705
124) 1,3,5-Trimethylbenzene	(3)	9.449	105	584113	19.837
125) 4-Chlorotoluene	(3)	9.455	126	169486	19.453
127) tert-Butylbenzene	(3)	9.686	134	145185	19.819
128) Pentachloroethane	(3)	9.698	167	81034	18.484
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	604361	19.797
132) sec-Butylbenzene	(3)	9.845	105	780197	20.165
133) 1,3-Dichlorobenzene	(3)	9.924	146	320738	19.687
134) p-Isopropyltoluene	(3)	9.948	119	656506	19.517
135)*1,4-Dichlorobenzene-d4	(3)	9.973	152	475348	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	317618	19.271
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	594283	19.876
138) Benzyl Chloride	(3)	10.083	91	293960	19.551
139) 1,3-Diethylbenzene	(3)	10.162	105	386359	19.913
140) 1,4-Diethylbenzene	(3)	10.217	105	358684	19.880
141) n-Butylbenzene	(3)	10.235	92	324601	19.283
142) 1,2-Dichlorobenzene	(3)	10.247	146	302809	19.429
143) 1,2-Diethylbenzene	(3)	10.302	105	358966	19.845
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	41081	24.892
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	208955	18.416
147) Hexachlorobutadiene	(3)	11.430	225	95600	18.106
148) Naphthalene	(3)	11.485	128	683839	20.906
149) 1,2,3-Trichlorobenzene	(3)	11.643	180	200875	19.079
152) 2-Methylnaphthalene	(3)	12.198	142	349052	20.198

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

PTL06 0572

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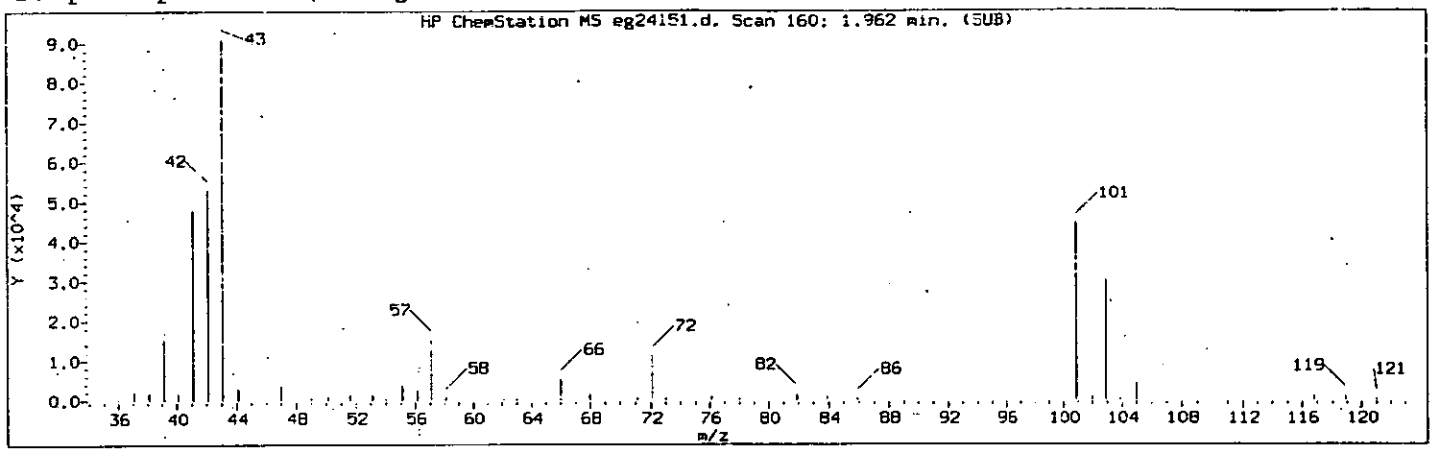
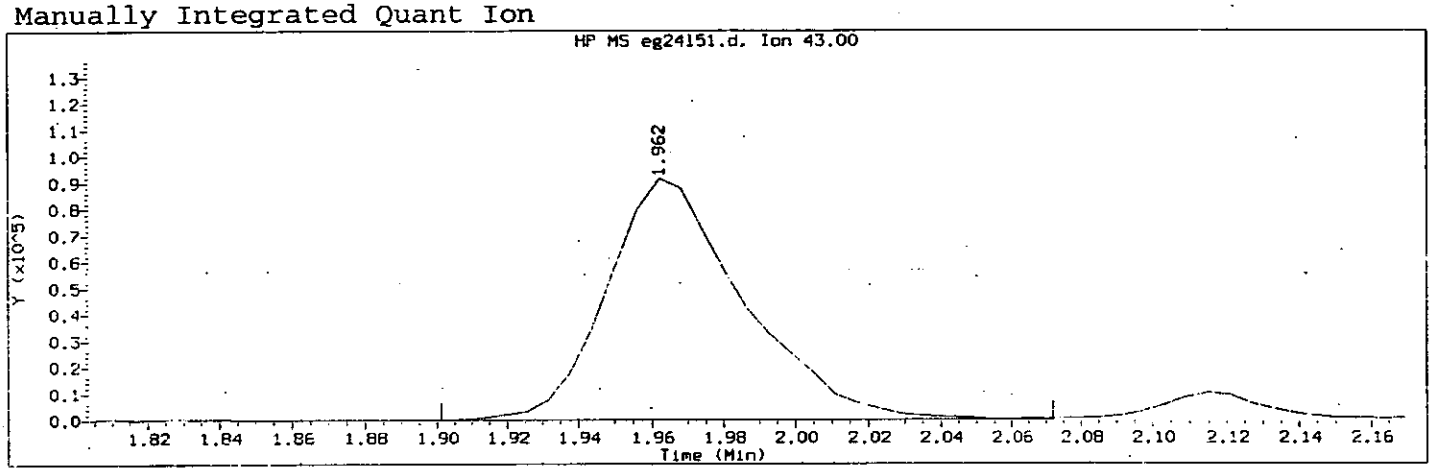
on 08/24/2010 at 17:10.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sample Name: LCSE06 Lab Sample ID: LCSE06

Compound Number	: 9		
Compound Name	: n-Pentane		
Scan Number	: 160		
Retention Time (minutes)	: 1.962		
Quant Ion	: 43.00		
Area (flag)	: 240781A		
On-Column Amount (ng)	: 18.7340		
Integration start scan	: 149	Integration stop scan:	177
Y at integration start	: 0	Y at integration end:	0

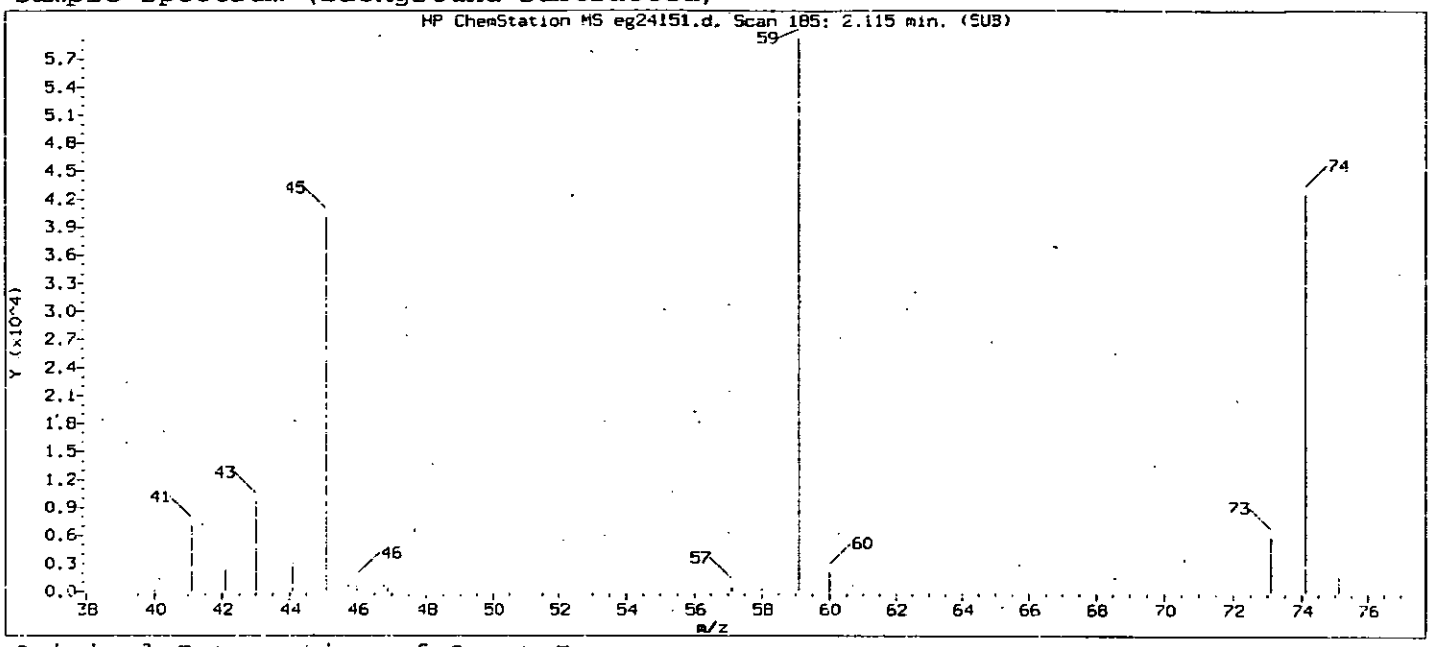
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 17:10. Target 3.5 esignature user ID: sej02002

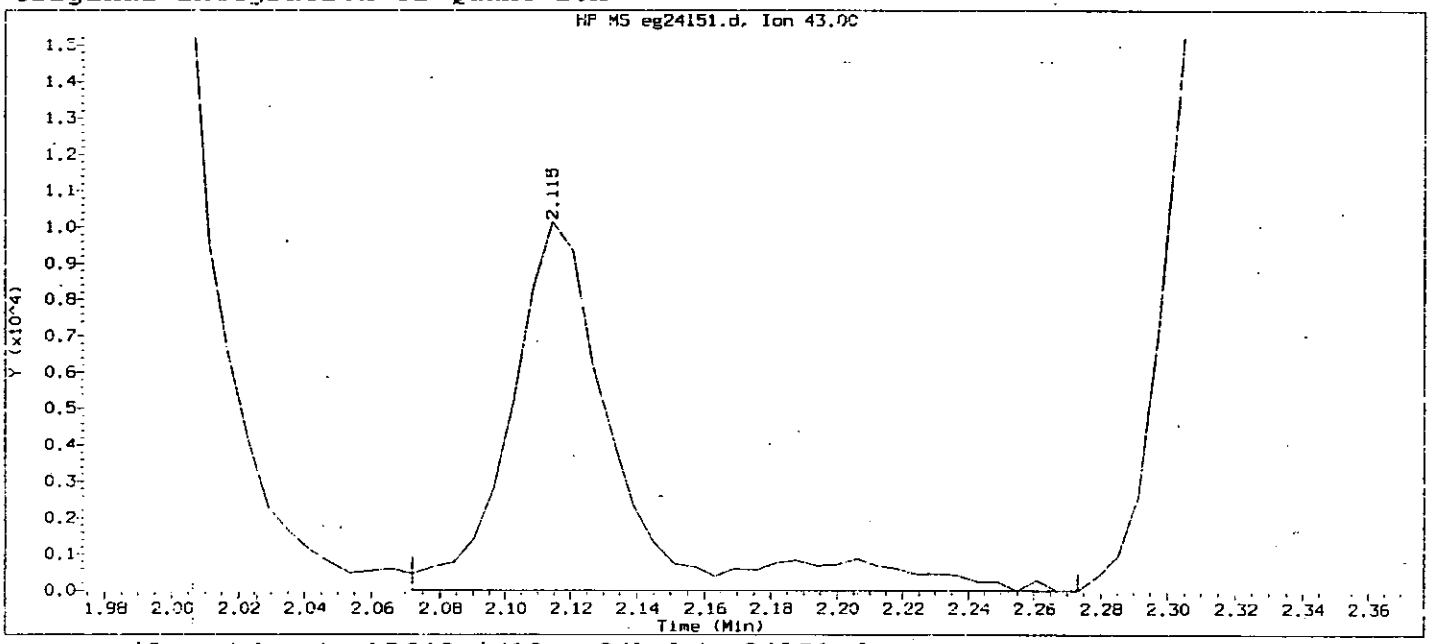
PTL06 0573

GC/MS audit/management approval: [illegible] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:07 Automation

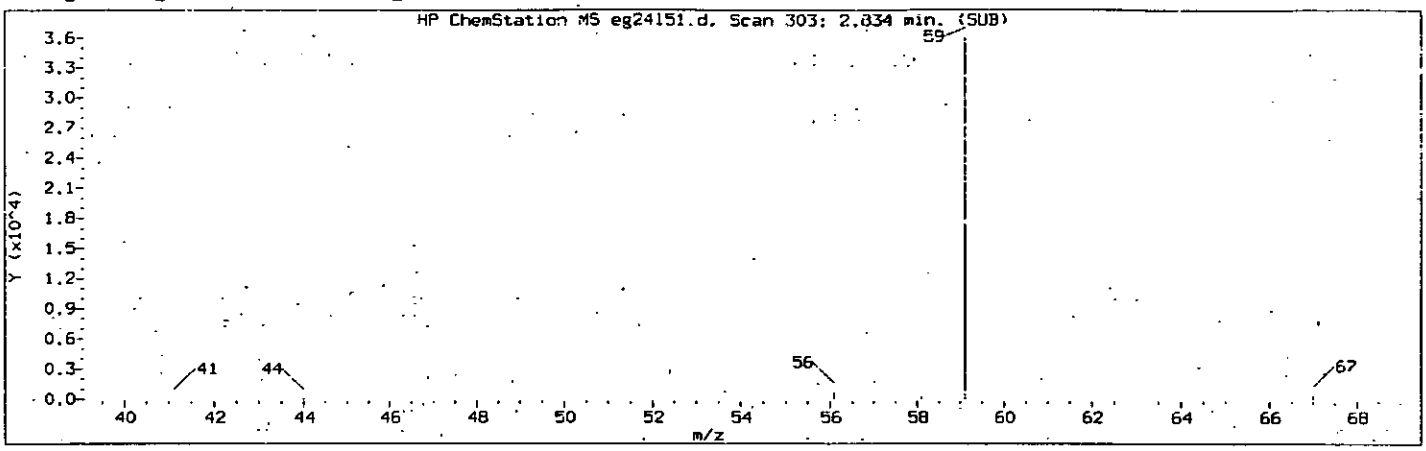
Sample Name: LCSE06 Lab Sample ID: LCSE06

Compound Number : 9
Compound Name : n-Pentane
Scan Number : 185
Retention Time (minutes): 2.115
Quant Ion : 43.00
Area : 23121
On-column Amount (ng) : 1.7990
Integration start scan : 177 Integration stop scan: 210
Y at integration start : 0 Y at integration end: 0

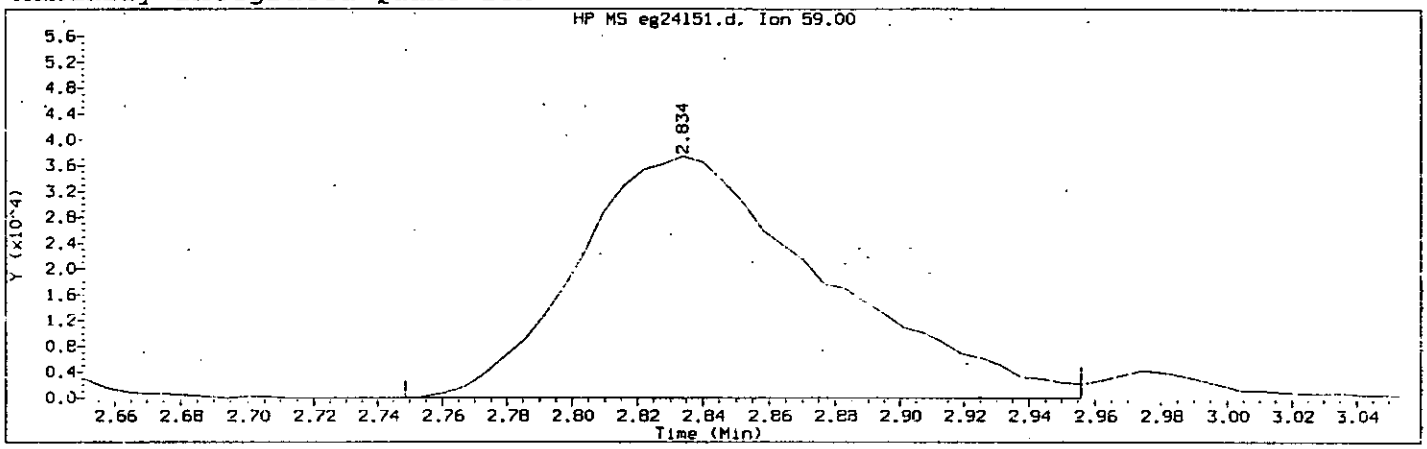
PTL86 0574

Digitally signed by Sara E. Johnson on 08/24/2010 at 17:10.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sample Name: LCSE06 Lab Sample ID: LCSE06

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 303
Retention Time (minutes): 2.834
Quant Ion : 59.00
Area (flag) : 196566M
On-Column Amount (ng) : 207.0487
Integration start scan : 288 Integration stop scan: 322
Y at integration start : 0 Y at integration end: 0

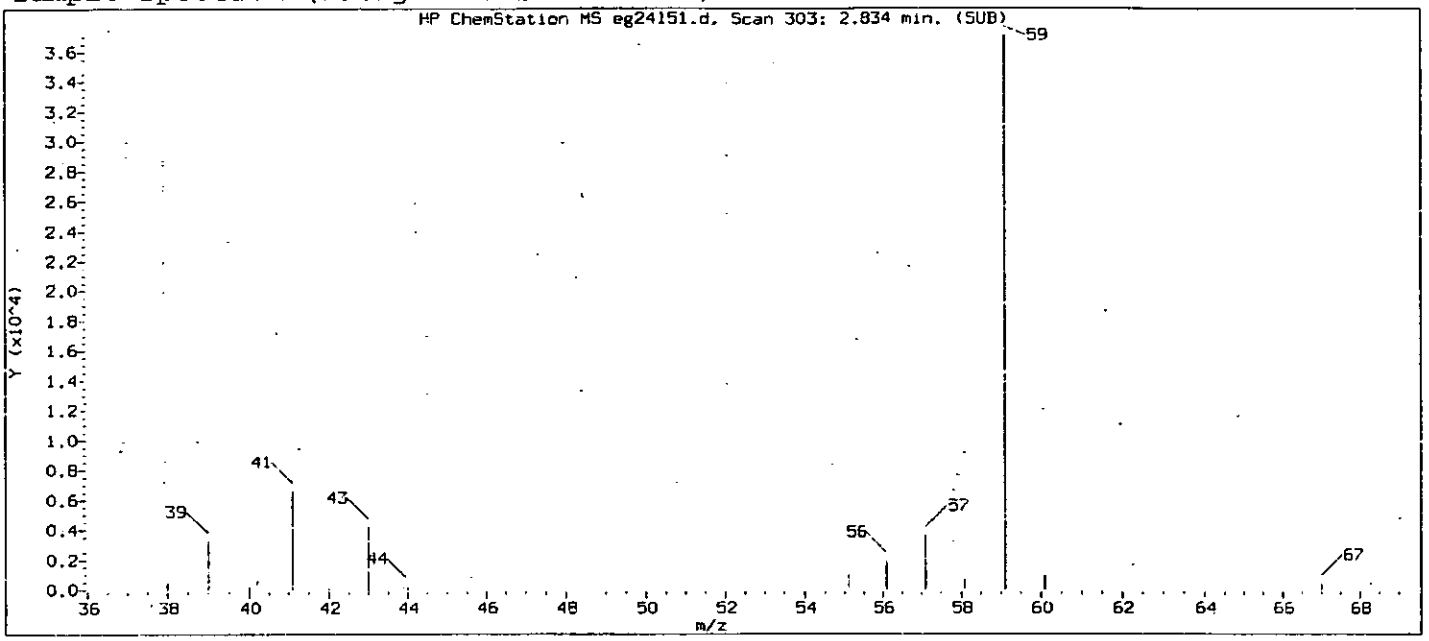
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 17:10. Target 3.5 esignature user ID: sej02002

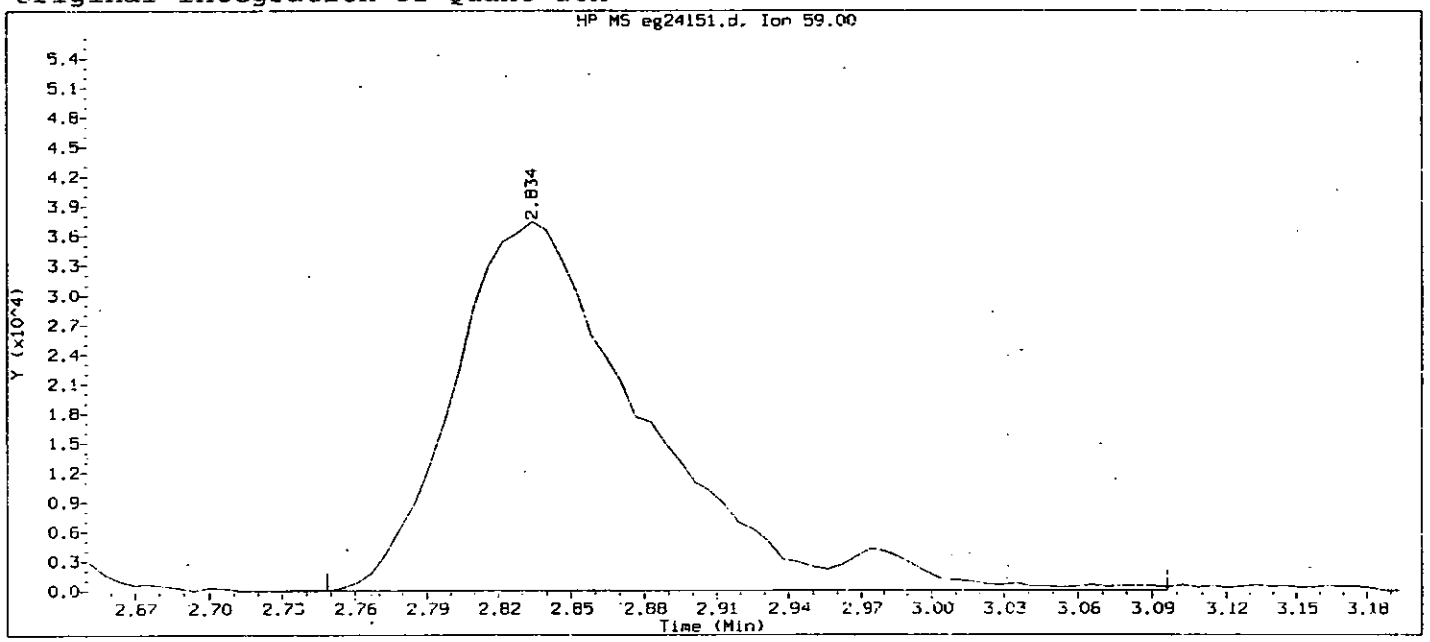
PTL06 0575

GC/MS audit/management approval: [illegible] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:07 Automation

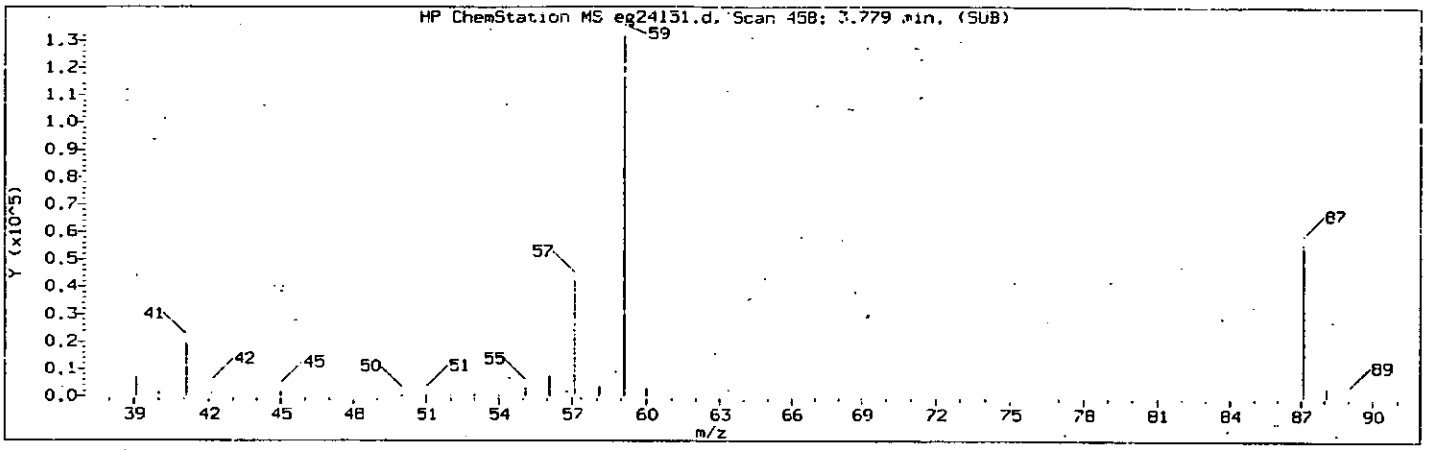
Sample Name: LCSE06 Lab Sample ID: LCSE06

Compound Number : 26
Compound Name : t-Butyl Alcohol
Scan Number : 303
Retention Time (minutes): 2.834
Quant Ion : 59.00
Area : 208107
On-column Amount (ng) : 219.2044
Integration start scan : 288 Integration stop scan: 345
Y at integration start : 0 Y at integration end: 0

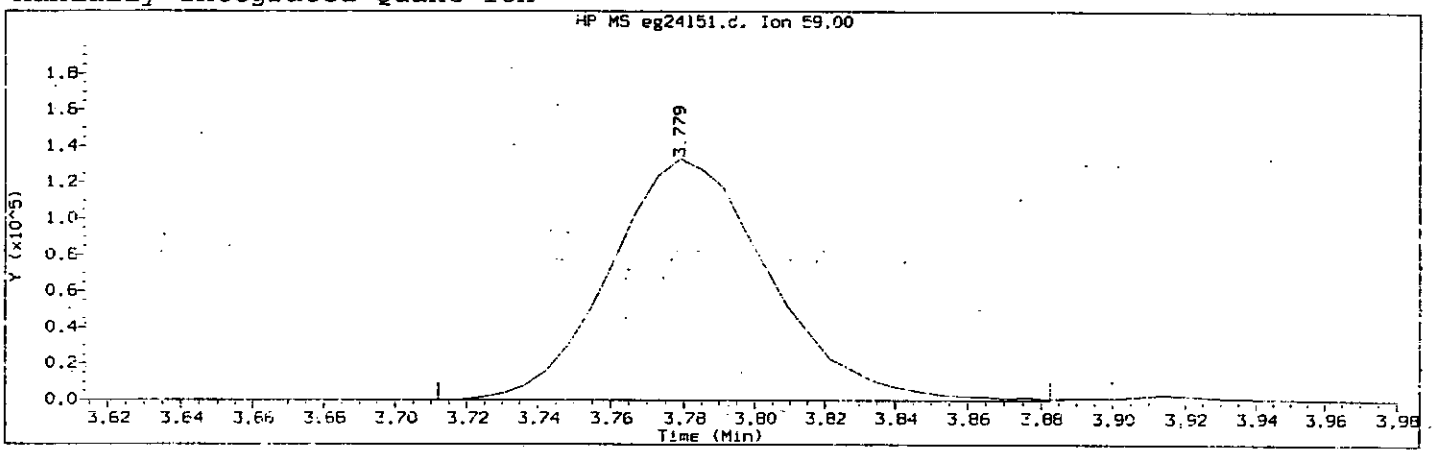
PTL86 0576

Digitally signed by Sara E. Johnson on 08/24/2010 at 17:10.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sample Name: LCSE06 Lab Sample ID: LCSE06

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 458
Retention Time (minutes): 3.779
Quant Ion : 59.00
Area (flag) : 410081M
On-Column Amount (ng) : 20.0699
Integration start scan : 446 Integration stop scan: 474
Y at integration start : 0 Y at integration end: 0

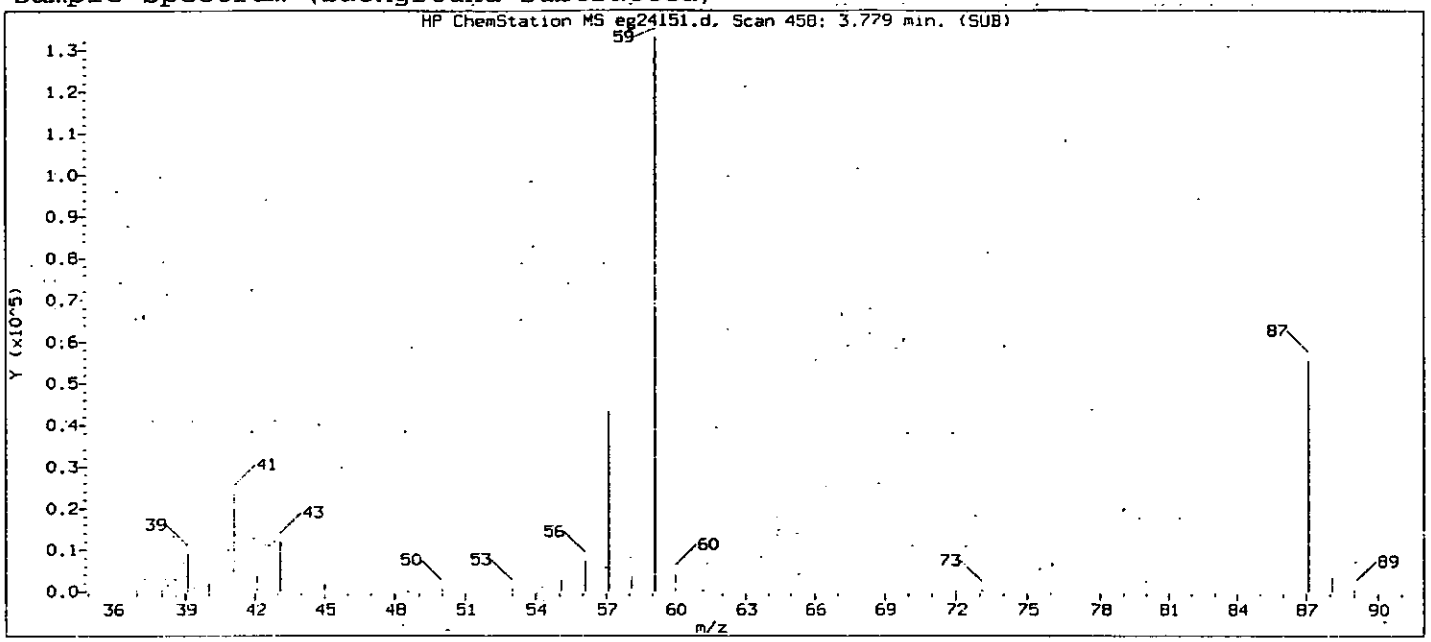
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 17:10. Target 3.5 esignature user ID: sej02002

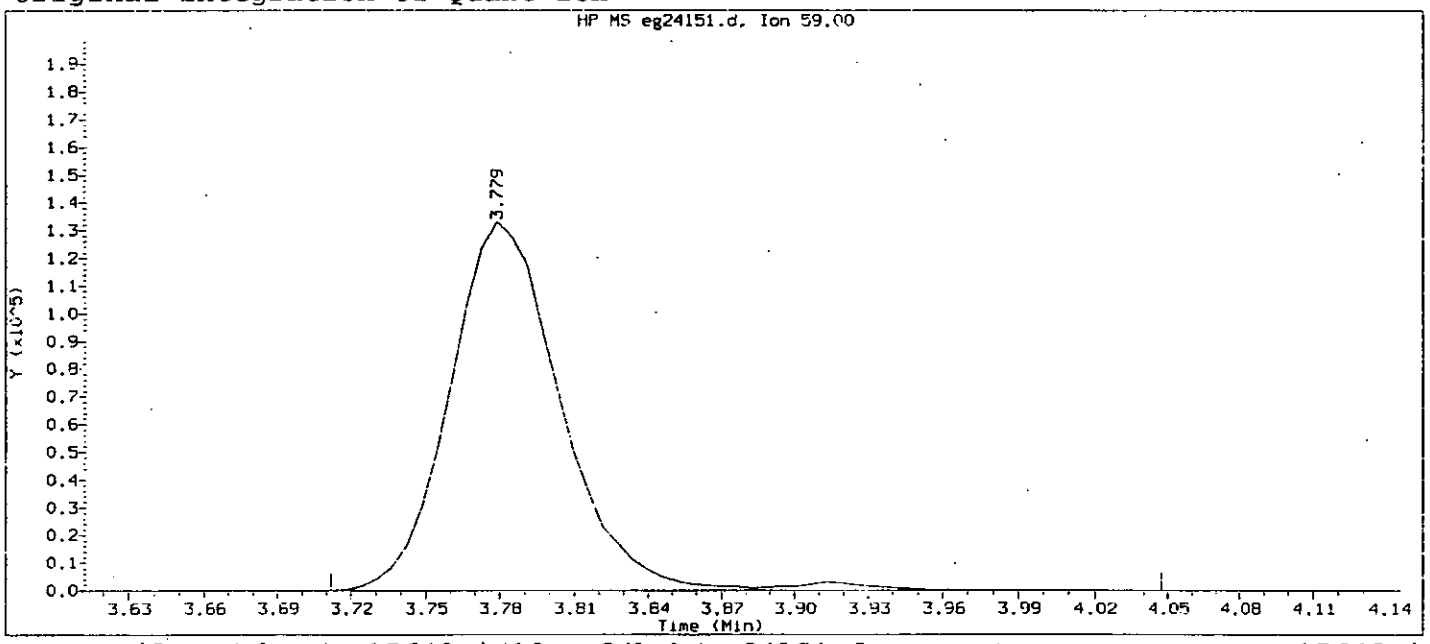
PTL86 8577

GC/MS audit/management approval: [illegible] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:07 Automation

Sample Name: LCSE06 Lab Sample ID: LCSE06

Compound Number : 37
Compound Name : Ethyl t-Butyl Ether
Scan Number : 458
Retention Time (minutes): 3.779
Quant Ion : 59.00
Area : 417432
On-column Amount (ng) : 20.4296
Integration start scan : 446 Integration stop scan: 501
Y at integration start : 0 Y at integration end: 0

PTL06 0278

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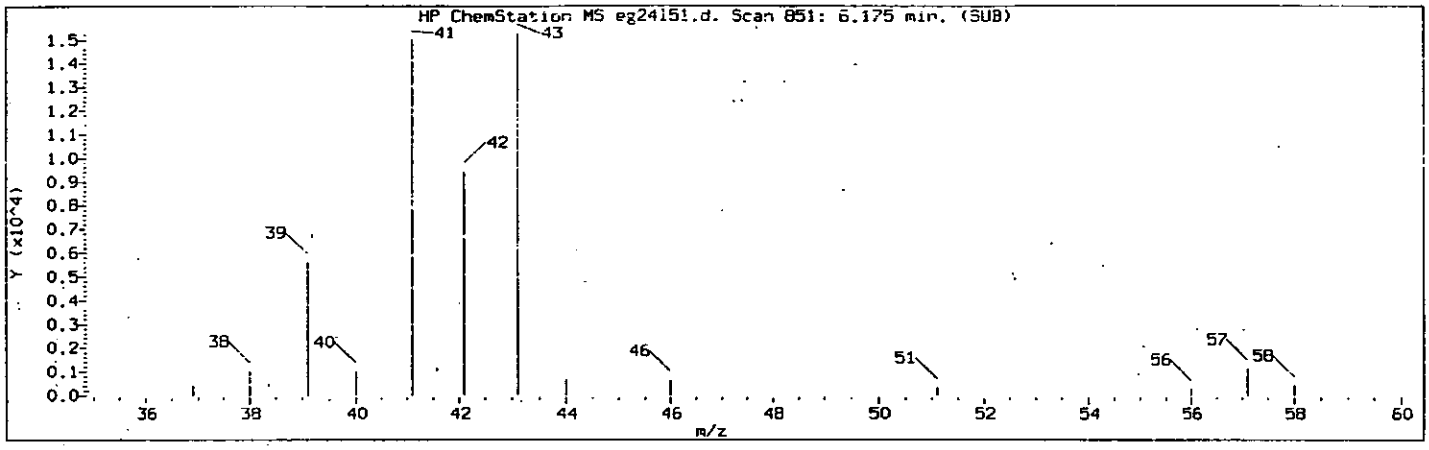
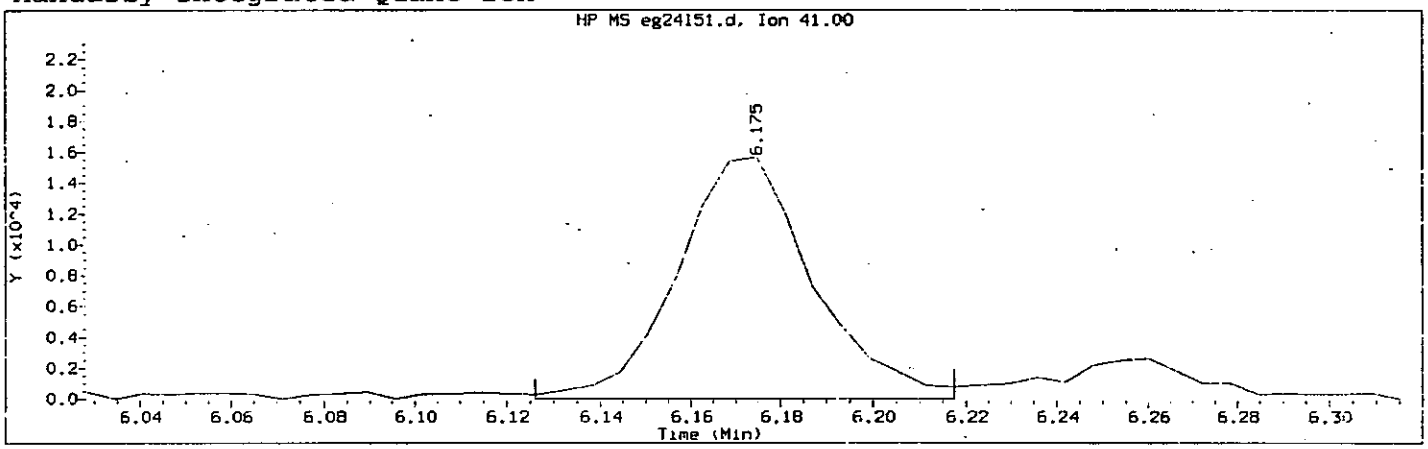
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date, time and analyst ID of latest file update: 24-Aug-2010 17:09 sej02002

Sample Name: LCSE06 Lab Sample ID: LCSE06

Compound Number : 82
Compound Name : 2-Nitropropane
Scan Number : 851
Retention Time (minutes): 6.175
Quant Ion : 41.00
Area (flag) : 32703M
On-Column Amount (ng) : 23.0722
Integration start scan : 842 Integration stop scan: 857
Y at integration start : 0 Y at integration end: 0

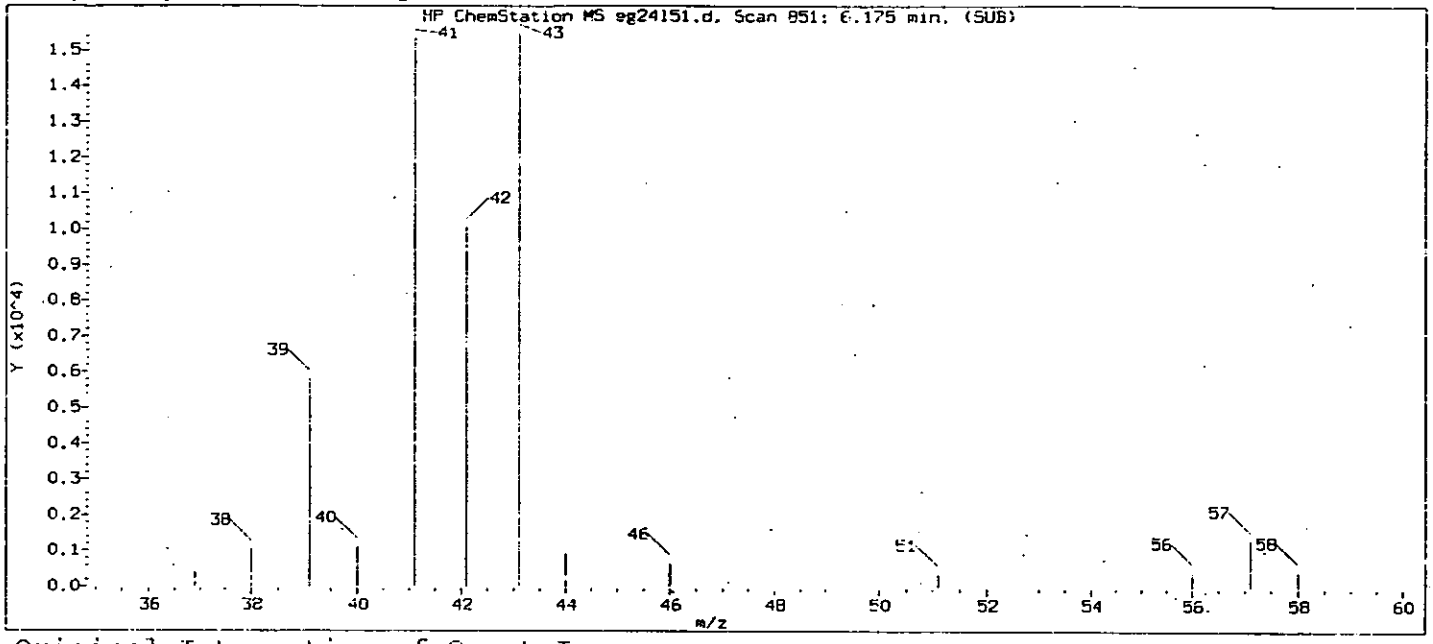
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Sara E. Johnson on 08/24/2010 at 17:10. Target 3.5 esignature user ID: sej02002

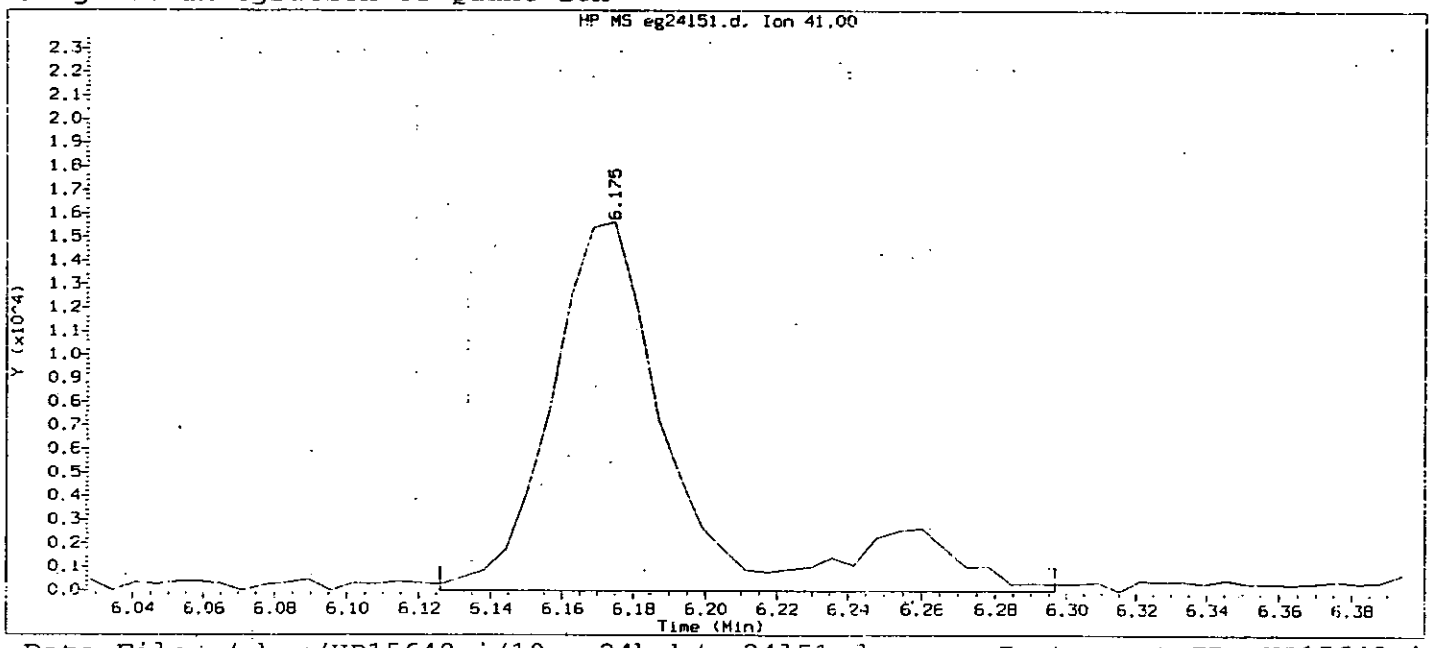
PTL06 0579

GC/MS audit/management approval: [signature] 8/25/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug24b.b/eg24151.d Instrument ID: HP15648.i
Injection date and time: 24-AUG-2010 16:49 Analyst ID: SEJ02002

Method used: /chem/HP15648.i/10aug24b.b/E8260W.m Sublist used: 8260W-F
Calibration date and time: 24-AUG-2010 16:58
Date. time and analyst ID of latest file update: 24-Aug-2010 17:07 Automation

Sample Name: LCSE06 Lab Sample ID: LCSE06

Compound Number : 82
Compound Name : 2-Nitropropane
Scan Number : 851
Retention Time (minutes): 6.175
Quant Ion : 41.00
Area : 38665
On-column Amount (ng) : 27.2986
Integration start scan : 842 Integration stop scan: 870
Y at integration start : 0 Y at integration end: 0

PTL06 0500

Digitally signed by Sara E. Johnson on 08/24/2010 at 17:10.
Target 3.5 esignature user ID: sej02002

LCSE07

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

LCSE07

Data file: /chem/HP15648.i/10aug25a.b/eg25101.d
Data file Sample Info. Line: LCSE07;LCSE07;1;3;LCS;;;
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Injection date and time: **25-AUG-2010 09:38**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 11:32
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.761(0.000)	291	65	151274 (-22)	250.00	
69) Fluorobenzene	5.047(0.000)	666	96	1271669 (2)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	908705 (2)	50.00	
135) 1,4-Dichlorobenzene-d4	9.973(0.000)	1474	152	494967 (1)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.383(0.000)	113	282054	49.604	99%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.712(0.000)	102	75660M	50.113	100%		77 - 113
90) Toluene-d8	(2)	6.687(0.000)	98	1270259	50.549	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	450257	50.506	101%		78 - 113

M = Surrogate Standard was manually integrated

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)	1.292(-0.000)	85	152802	13.666	13.67			2
2) Chloromethane	(1)	1.359(0.001)	50	172632	15.138	15.14			1
3) 1,3-Butadiene	(1)	1.462(-0.000)	39	114972	16.010	16.01			1
4) Vinyl Chloride	(1)	1.450(0.002)	62	171253	15.534	15.53			1
5) Bromomethane	(1)	1.670(0.002)	94	109221	15.644	15.64			1
6) Chloroethane	(1)	1.737(0.001)	64	107019M	16.426	16.43			1
7) Dichlorofluoromethane	(1)	1.889(0.001)	67	269882	18.966	18.97			2
8) Trichlorofluoromethane	(1)	1.962(0.001)	101	185937M	15.400	15.40			2
9) n-Pentane	(1)			Not Detected					2
12) Ethyl Ether	(1)	2.115(0.001)	59	102389	16.514	16.51			2
13) Freon 123a	(1)	2.151(-0.000)	67	173095A	19.333	19.33			2
14) Acrolein	(4)	2.230(-0.000)	56	210552	123.878	123.88			40
15) 1,1-Dichloroethene	(1)	2.328(-0.000)	96	137375	19.068	19.07			0.8
17) Freon 113	(1)	2.346(-0.000)	101	139319	19.214	19.21			2
16) Acetone	(1)	2.352(-0.000)	43	356402	155.605	155.60			6
18) Methyl Iodide	(1)	2.462(0.001)	142	227990	19.199	19.20			1
21) Carbon Disulfide	(1)	2.535(-0.000)	76	389619	19.588	19.59			1
22) Allyl Chloride	(1)	2.627(-0.000)	41	198486	17.114	17.11			1
23) Methyl Acetate	(1)	2.639(-0.001)	43	101490	16.613	16.61			1
24) Methylene Chloride	(1)	2.743(-0.000)	84	141713	18.808	18.81			2
26) t-Butyl Alcohol	(4)	2.828(0.002)	59	137539	189.657	189.66			10
27) Acrylonitrile	(1)	2.956(-0.000)	53	279247	81.385	81.39			4
28) trans-1,2-Dichloroethene	(1)	2.980(-0.000)	96	142316	18.978	18.98			0.8
29) Methyl Tertiary Butyl Ether	(1)	2.986(-0.000)	73	390217	18.849	18.85			0.5
31) n-Hexane	(1)	3.230(-0.000)	57	218415	18.753	18.75			2
36) 1,2-Dichloroethene (total)	(1)		96	286786	37.224	37.22			0.8
33) 1,1-Dichloroethane	(1)	3.370(-0.000)	63	255646	19.049	19.05			1
34) di-Isopropyl Ether	(1)	3.431(0.001)	45	432028	19.107	19.11			0.8
35) 2-Chloro-1,3-Butadiene	(1)	3.450(0.001)	53	224325	21.484	21.48			1
37) Ethyl t-Butyl Ether	(1)	3.785(-0.000)	59	404318	19.156	19.16			0.8
39) cis-1,2-Dichloroethene	(1)	3.919(-0.000)	96	144470	18.246	18.25			0.8
40) 2-Butanone	(1)	3.925(-0.000)	43	520712	135.492	135.49			3
41) 2,2-Dichloropropane	(1)	3.931(0.001)	77	190841	19.068	19.07			1

M = Compound was manually integrated. A = User selected an alternate peak.

PTL06 0581

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

LCSE07

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

LCSE07

Data file: /chem/HP15648.i/10aug25a.b/eg25101.d
Data file Sample Info. Line: LCSE07;LCSE07;1;3;LCS;;;
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Injection date and time: **25-AUG-2010 09:38**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 11:32
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
42) Propionitrile	(4)	3.992(-0.002)	54	162151	135.708	135.71			30
44) Methacrylonitrile	(1)	4.132(0.000)	67	472403	136.981	136.98			10
45) Bromochloromethane	(1)	4.151(-0.000)	128	65176	17.328	17.33			1
46) Tetrahydrofuran	(4)	4.187(0.000)	71	95998	86.559	86.56			4
47) Chloroform	(1)	4.230(-0.000)	83	223366	18.793	18.79			0.8
52) 1,1,1-Trichloroethane	(1)	4.407(0.001)	97	222022	19.393	19.39			0.8
53) Cyclohexane	(1)	4.462(0.001)	56	274002	19.495	19.50			2
55) 1,1-Dichloropropene	(1)	4.565(-0.000)	75	203997	18.857	18.86			1
56) Carbon Tetrachloride	(1)	4.572(-0.000)	117	158069	19.024	19.02			1
58) Isobutyl Alcohol	(4)	4.693(0.000)	41	110928	452.246	452.25			100
63) Benzene	(1)	4.767(-0.000)	78	576587	18.635	18.64			0.5
65) 1,2-Dichloroethane	(1)	4.785(-0.000)	62	169955	19.194	19.19			1
67) t-Amyl Methyl Ether	(1)	4.888(0.000)	73	380889	18.595	18.60			0.8
68) n-Heptane	(1)	5.035(0.001)	43	213779	18.450	18.45			2
71) n-Butanol	(4)	5.358(0.000)	56	186587	860.326	860.33			100
72) Trichloroethene	(1)	5.413(0.000)	95	146197	18.379	18.38			1
76) 1,2-Dichloropropane	(1)	5.638(0.001)	63	144605	18.479	18.48			1
74) Methylcyclohexane	(1)	5.614(0.000)	83	263461	17.882	17.88			1
79) Methyl Methacrylate	(1)	5.772(0.001)	69	101614	15.482	15.48			1
78) Dibromomethane	(1)	5.760(0.001)	93	81711	18.331	18.33			1
80) 1,4-Dioxane	(4)	5.785(0.002)	88	32867	468.140	468.14			70
81) Bromodichloromethane	(1)	5.931(0.000)	83	153814	18.356	18.36			1
82) 2-Nitropropane	(1)	6.169(0.001)	41	22410	15.232	15.23			2
83) 2-Chloroethyl Vinyl Ether	(1)	6.254(0.001)	63	92896	17.371	17.37			2
87) cis-1,3-Dichloropropene	(1)	6.400(0.001)	75	196600	17.690	17.69			1
88) 4-Methyl-2-Pentanone	(1)	6.577(0.000)	43	724551	84.917	84.92			3
91) Toluene	(2)	6.754(0.000)	92	363489	18.243	18.24			0.7
92) trans-1,3-Dichloropropene	(2)	7.004(-0.000)	75	183111	17.974	17.97			1
93) Ethyl Methacrylate	(2)	7.120(-0.000)	69	169341	20.096	20.10			1
94) 1,1,2-Trichloroethane	(2)	7.199(-0.000)	97	119433	18.563	18.56			0.8
96) Tetrachloroethene	(2)	7.339(-0.000)	166	165149	17.827	17.83			0.8
97) 1,3-Dichloropropane	(2)	7.370(-0.000)	76	208657	18.363	18.36			1
98) 2-Hexanone	(2)	7.467(-0.000)	43	510531	91.185	91.18			3
100) Dibromochloromethane	(2)	7.589(0.000)	129	111793	17.819	17.82			1
101) 1,2-Dibromoethane	(2)	7.693(-0.000)	107	114569	17.511	17.51			1
104) Chlorobenzene	(2)	8.150(0.000)	112	393657	18.251	18.25			0.8
106) 1,1,1,2-Tetrachloroethane	(2)	8.229(0.000)	131	111769	17.399	17.40			1
107) Ethylbenzene	(2)	8.254(0.000)	91	697653	18.274	18.27			0.8
108) m+p-Xylene	(2)	8.357(0.000)	106	547345	36.489	36.49			0.8
105) Xylene (Total)	(2)		106	809299	54.532	54.53			0.8
110) o-Xylene	(2)	8.693(0.000)	106	261954	18.043	18.04			0.8
111) Styrene	(2)	8.705(0.000)	104	413924	18.057	18.06			1
112) Bromoform	(2)	8.845(0.000)	173	75158	16.340	16.34			1
113) Isopropylbenzene	(2)	8.991(0.000)	105	700711	18.336	18.34			1
115) Cyclohexanone	(4)	9.058(0.000)	55	111113	466.386	466.39			55
119) 1,1,2,2-Tetrachloroethane	(3)	9.229(0.000)	83	166322	17.436	17.44			1
121) trans-1,4-Dichloro-2-Butene	(3)	9.272(-0.000)	53	243508M	85.178	85.18			15
118) Bromobenzene	(3)	9.223(0.000)	156	155999	17.807	17.81			1
120) 1,2,3-Trichloropropane	(3)	9.260(-0.000)	110	50064	17.792	17.79			1
122) n-Propylbenzene	(3)	9.308(0.000)	91	840006	18.711	18.71			1
123) 2-Chlorotoluene	(3)	9.375(-0.000)	126	160176MA	17.892	17.89			1
124) 1,3,5-Trimethylbenzene	(3)	9.442(0.000)	105	559562	18.250	18.25			1
125) 4-Chlorotoluene	(3)	9.455(-0.000)	126	162540	17.917	17.92			1
127) tert-Butylbenzene	(3)	9.686(-0.000)	134	137878	18.076	18.08			1
128) Pentachloroethane	(3)	9.698(0.000)	167	83526	18.298	18.30			1

PTL06 8582

M = Compound was manually integrated. A = User selected an alternate peak.

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

LCSE07 Lancaster Laboratories LCSE07

Analysis Summary for GC/MS Volatiles

Data file: /chem/HP15648.i/10aug25a.b/eg25101.d
Data file Sample Info. Line: LCSE07;LCSE07;1;3;LCS;;;
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Injection date and time: **25-AUG-2010 09:38**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 11:32
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
130) 1,2,4-Trimethylbenzene	(3)	9.723(-0.000)	105	580273	18.255	18.25			1
132) sec-Butylbenzene	(3)	9.845(0.000)	105	743254	18.449	18.45			1
134) p-Isopropyltoluene	(3)	9.948(-0.000)	119	632879	18.069	18.07			1
133) 1,3-Dichlorobenzene	(3)	9.924(0.000)	146	307527	18.128	18.13			1
136) 1,4-Dichlorobenzene	(3)	9.985(0.000)	146	311979	18.179	18.18			1
137) 1,2,3-Trimethylbenzene	(3)	10.022(0.000)	105	575719	18.491	18.49			1
138) Benzyl Chloride	(3)	10.083(0.000)	91	251467	16.190	16.19			1
139) 1,3-Diethylbenzene	(3)	10.162(0.000)	105	367560	18.194	18.19			1
140) 1,4-Diethylbenzene	(3)	10.217(0.000)	105	343251	18.271	18.27			1
141) n-Butylbenzene	(3)	10.235(0.000)	92	311345	17.763	17.76			1
142) 1,2-Dichlorobenzene	(3)	10.247(0.000)	146	296619	18.278	18.28			1
143) 1,2-Diethylbenzene	(3)	10.302(0.000)	105	346234A	18.383	18.38			1
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778(0.000)	75	29342	17.183	17.18			2
146) 1,2,4-Trichlorobenzene	(3)	11.326(0.000)	180	205435	17.389	17.39			1
147) Hexachlorobutadiene	(3)	11.430(0.000)	225	91296	16.605	16.61			2
148) Naphthalene	(3)	11.485(0.000)	128	582845	17.112	17.11			1
149) 1,2,3-Trichlorobenzene	(3)	11.637(0.000)	180	194595	17.750	17.75			1
152) 2-Methylnaphthalene	(3)	12.198(0.000)	142	309080	17.176	17.18			2

A = User selected an alternate peak.

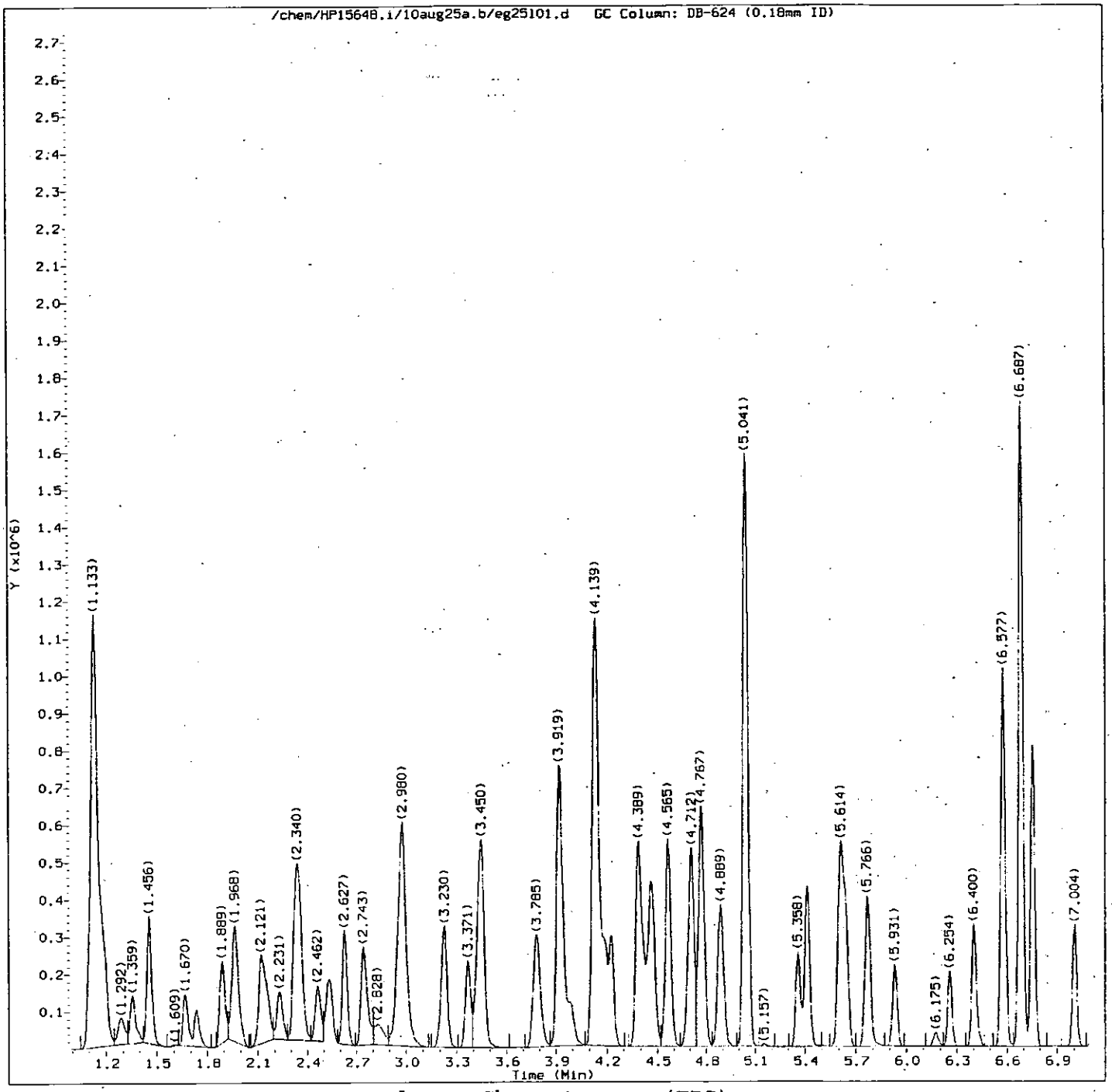
Total number of targets = 106

Comments:

PTL86 0583

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

Auditor: HBI 8/26 Date: 8/26/10



Total Ion Chromatogram (TIC)

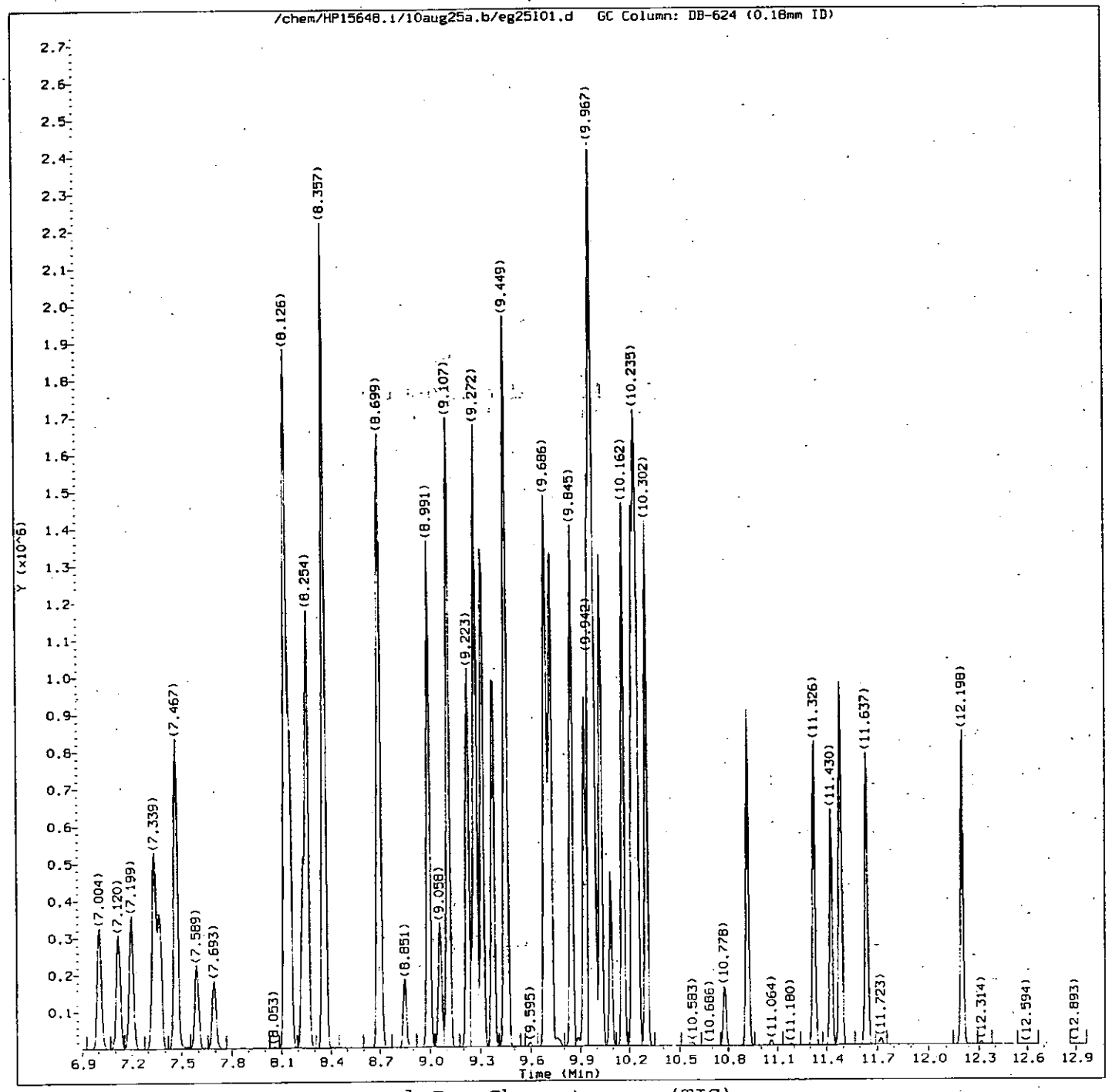
Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07 Lab Sample ID: LCSE07 PTL06 0584

Digitally signed by Stephanie A. Selis
on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25101.d
Injection date and time: 25-AUG-2010 09:38

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 8260W

Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07

Lab Sample ID: LCSE07

PTL06 0585

Digitally signed by Stephanie A. Selis
on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25101.d
Injection date and time: 25-AUG-2010 09:38

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 8260W

Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07

Lab Sample ID: LCSE07

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.292	85	152802	13.666
2) Chloromethane	(1)	1.359	50	172632	15.138
4) Vinyl Chloride	(1)	1.450	62	171253	15.534
3) 1,3-Butadiene	(1)	1.462	39	114972	16.010
5) Bromomethane	(1)	1.670	94	109221	15.644
6) Chloroethane	(1)	1.737	64	107019M	16.426
7) Dichlorofluoromethane	(1)	1.889	67	269882	18.966
8) Trichlorofluoromethane	(1)	1.962	101	185937M	15.400
12) Ethyl Ether	(1)	2.115	59	102389	16.514
13) Freon 123a	(1)	2.151	67	173095A	19.333
14) Acrolein	(4)	2.231	56	210552	123.878
15) 1,1-Dichloroethene	(1)	2.328	96	137375	19.068
17) Freon 113	(1)	2.346	101	139319	19.214
16) Acetone	(1)	2.352	43	356402	155.605
18) Methyl Iodide	(1)	2.462	142	227990	19.199
21) Carbon Disulfide	(1)	2.535	76	389619	19.588
22) Allyl Chloride	(1)	2.627	41	198486	17.114
23) Methyl Acetate	(1)	2.639	43	101490	16.613
24) Methylene Chloride	(1)	2.743	84	141713	18.808
25)*t-Butyl Alcohol-d10	(4)	2.761	65	151274	250.000
26) t-Butyl Alcohol	(4)	2.828	59	137539	189.657
27) Acrylonitrile	(1)	2.956	53	279247	81.385
28) trans-1,2-Dichloroethene	(1)	2.980	96	142316	18.978
29) Methyl Tertiary Butyl Ether	(1)	2.986	73	390217	18.849
31) n-Hexane	(1)	3.230	57	218415	18.753
33) 1,1-Dichloroethane	(1)	3.371	63	255646	19.049
34) di-Isopropyl Ether	(1)	3.431	45	432028	19.107
35) 2-Chloro-1,3-Butadiene	(1)	3.450	53	224325	21.484
36) 1,2-Dichloroethene (total)	(1)		96	286786	37.224
37) Ethyl t-Butyl Ether	(1)	3.785	59	404318	19.156
39) cis-1,2-Dichloroethene	(1)	3.919	96	144470	18.246
40) 2-Butanone	(1)	3.925	43	520712	135.492
41) 2,2-Dichloropropane	(1)	3.931	77	190841	19.068
42) Propionitrile	(4)	3.992	54	162151	135.708
44) Methacrylonitrile	(1)	4.133	67	472403	136.981
45) Bromochloromethane	(1)	4.151	128	65176	17.328
46) Tetrahydrofuran	(4)	4.187	71	95998	86.559
47) Chloroform	(1)	4.230	83	223366	18.793
50)$Dibromofluoromethane	(1)	4.383	113	282054	49.604

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0586

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25101.d
Injection date and time: 25-AUG-2010 09:38

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 8260W

Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07

Lab Sample ID: LCSE07

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) 1,1,1-Trichloroethane	(1)	4.407	97	222022	19.393
53) Cyclohexane	(1)	4.462	56	274002	19.495
55) 1,1-Dichloropropene	(1)	4.565	75	203997	18.857
56) Carbon Tetrachloride	(1)	4.572	117	158069	19.024
58) Isobutyl Alcohol	(4)	4.693	41	110928	452.246
59)$1,2-Dichloroethane-d4	(1)	4.712	102	75660M	50.113
63) Benzene	(1)	4.767	78	576587	18.635
65) 1,2-Dichloroethane	(1)	4.785	62	169955	19.194
67) t-Amyl Methyl Ether	(1)	4.889	73	380889	18.595
68) n-Heptane	(1)	5.035	43	213779	18.450
69)*Fluorobenzene	(1)	5.047	96	1271669	50.000
71) n-Butanol	(4)	5.358	56	186587	860.326
72) Trichloroethene	(1)	5.413	95	146197	18.379
74) Methylcyclohexane	(1)	5.614	83	263461	17.882
76) 1,2-Dichloropropane	(1)	5.638	63	144605	18.479
78) Dibromomethane	(1)	5.760	93	81711	18.331
79) Methyl Methacrylate	(1)	5.772	69	101614	15.482
80) 1,4-Dioxane	(4)	5.785	88	32867	468.140
81) Bromodichloromethane	(1)	5.931	83	153814	18.356
82) 2-Nitropropane	(1)	6.169	41	22410	15.232
83) 2-Chloroethyl Vinyl Ether	(1)	6.254	63	92896	17.371
87) cis-1,3-Dichloropropene	(1)	6.400	75	196600	17.690
88) 4-Methyl-2-Pentanone	(1)	6.577	43	724551	84.917
90)$Toluene-d8	(2)	6.687	98	1270259	50.549
91) Toluene	(2)	6.754	92	363489	18.243
92) trans-1,3-Dichloropropene	(2)	7.004	75	183111	17.974
93) Ethyl Methacrylate	(2)	7.120	69	169341	20.096
94) 1,1,2-Trichloroethane	(2)	7.199	97	119433	18.563
96) Tetrachloroethene	(2)	7.339	166	165149	17.827
97) 1,3-Dichloropropane	(2)	7.370	76	208657	18.363
98) 2-Hexanone	(2)	7.467	43	510531	91.185
100) Dibromochloromethane	(2)	7.589	129	111793	17.819
101) 1,2-Dibromoethane	(2)	7.693	107	114569	17.511
103)*Chlorobenzene-d5	(2)	8.126	117	908705	50.000
104) Chlorobenzene	(2)	8.150	112	393657	18.251
105) Xylene (Total)	(2)		106	809299	54.532
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	111769	17.399
107) Ethylbenzene	(2)	8.254	91	697653	18.274
108) m+p-Xylene	(2)	8.357	106	547345	36.489

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0587

Digitally signed by Stephanie A. Selis
on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25101.d
Injection date and time: 25-AUG-2010 09:38

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 8260W

Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07

Lab Sample ID: LCSE07

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
110) o-Xylene	(2)	8.693	106	261954	18.043
111) Styrene	(2)	8.705	104	413924	18.057
112) Bromoform	(2)	8.845	173	75158	16.340
113) Isopropylbenzene	(2)	8.991	105	700711	18.336
115) Cyclohexanone	(4)	9.058	55	111113	466.386
116)$4-Bromofluorobenzene	(2)	9.107	95	450257	50.506
118) Bromobenzene	(3)	9.223	156	155999	17.807
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	166322	17.436
120) 1,2,3-Trichloropropane	(3)	9.260	110	50064	17.792
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	243508M	85.178
122) n-Propylbenzene	(3)	9.308	91	840006	18.711
123) 2-Chlorotoluene	(3)	9.375	126	160176MA	17.892
124) 1,3,5-Trimethylbenzene	(3)	9.443	105	559562	18.250
125) 4-Chlorotoluene	(3)	9.455	126	162540	17.917
127) tert-Butylbenzene	(3)	9.686	134	137878	18.076
128) Pentachloroethane	(3)	9.699	167	83526	18.298
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	580273	18.255
132) sec-Butylbenzene	(3)	9.845	105	743254	18.449
133) 1,3-Dichlorobenzene	(3)	9.924	146	307527	18.128
134) p-Isopropyltoluene	(3)	9.949	119	632879	18.069
135)*1,4-Dichlorobenzene-d4	(3)	9.973	152	494967	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	311979	18.179
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	575719	18.491
138) Benzyl Chloride	(3)	10.083	91	251467	16.190
139) 1,3-Diethylbenzene	(3)	10.162	105	367560	18.194
140) 1,4-Diethylbenzene	(3)	10.217	105	343251	18.271
141) n-Butylbenzene	(3)	10.235	92	311345	17.763
142) 1,2-Dichlorobenzene	(3)	10.247	146	296619	18.278
143) 1,2-Diethylbenzene	(3)	10.302	105	346234A	18.383
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	29342	17.183
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	205435	17.389
147) Hexachlorobutadiene	(3)	11.430	225	91296	16.605
148) Naphthalene	(3)	11.485	128	582845	17.112
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	194595	17.750
152) 2-Methylnaphthalene	(3)	12.198	142	309080	17.176

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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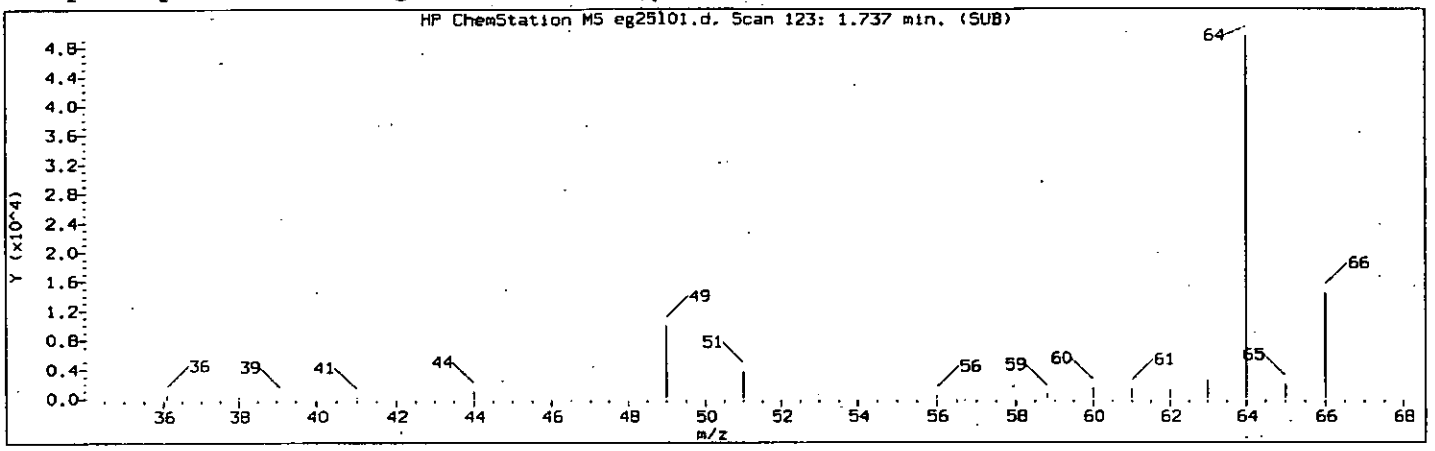
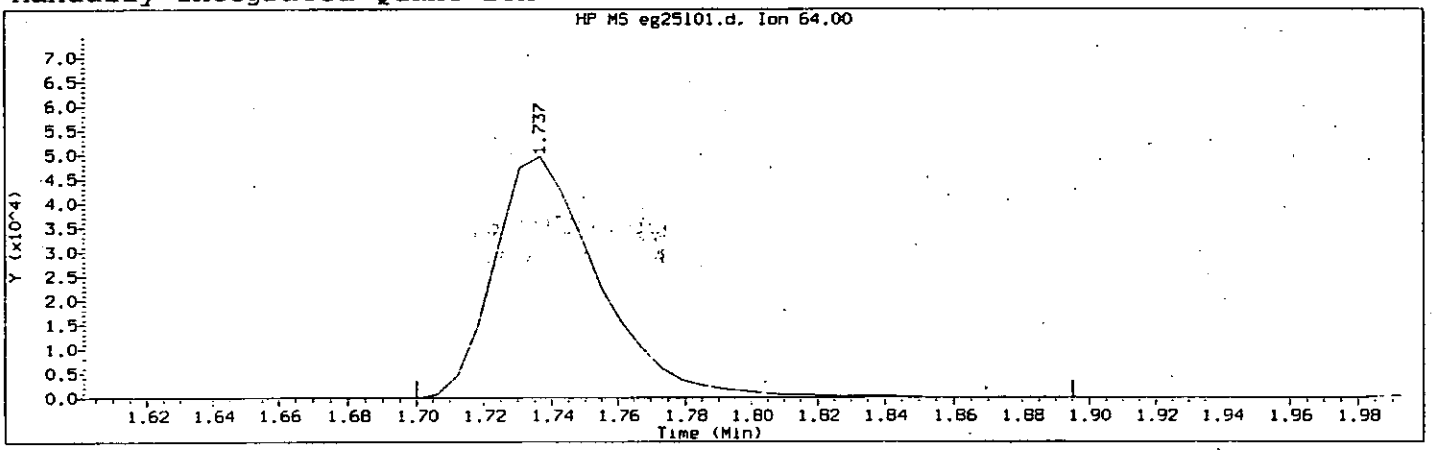
on 08/26/2010 at 05:57
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number	:	6
Compound Name	:	Chloroethane
Scan Number	:	123
Retention Time (minutes)	:	1.737
Quant Ion	:	64.00
Area (flag)	:	107019M
On-Column Amount (ng)	:	16.4256
Integration start scan	:	116 Integration stop scan: 148
Y at integration start	:	0 Y at integration end: 0

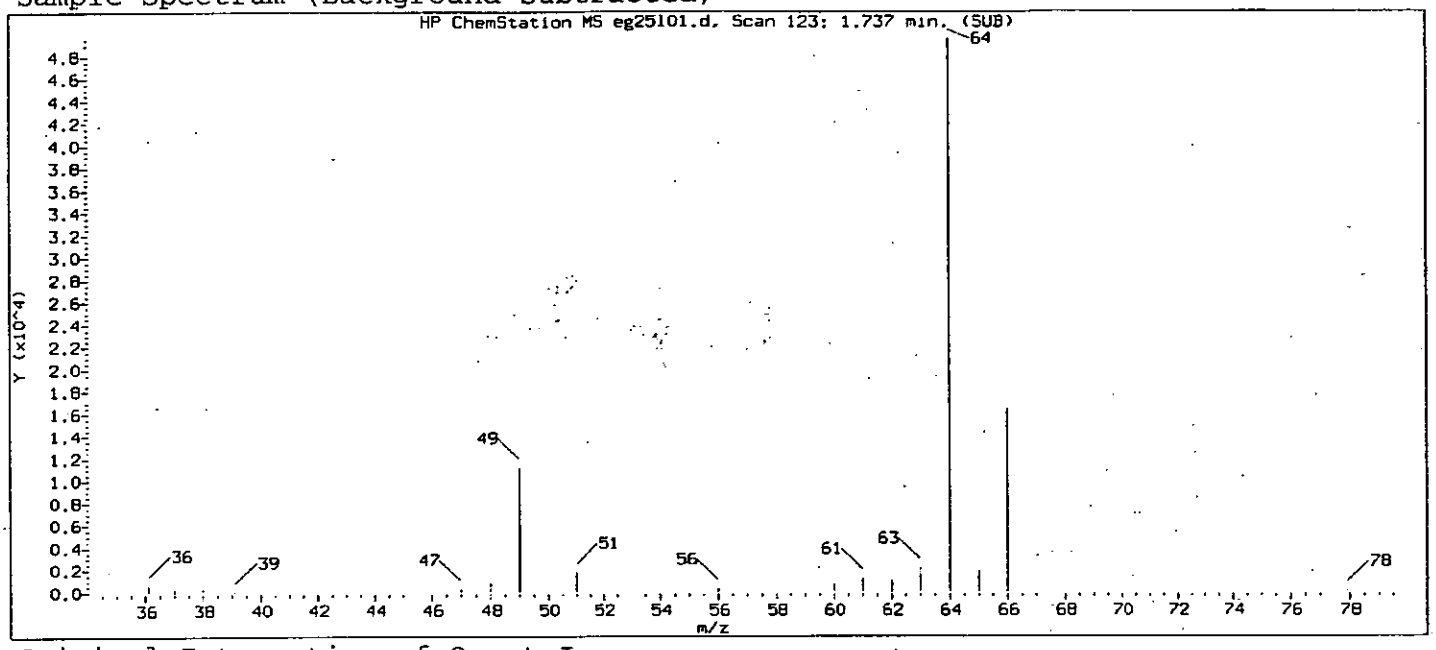
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

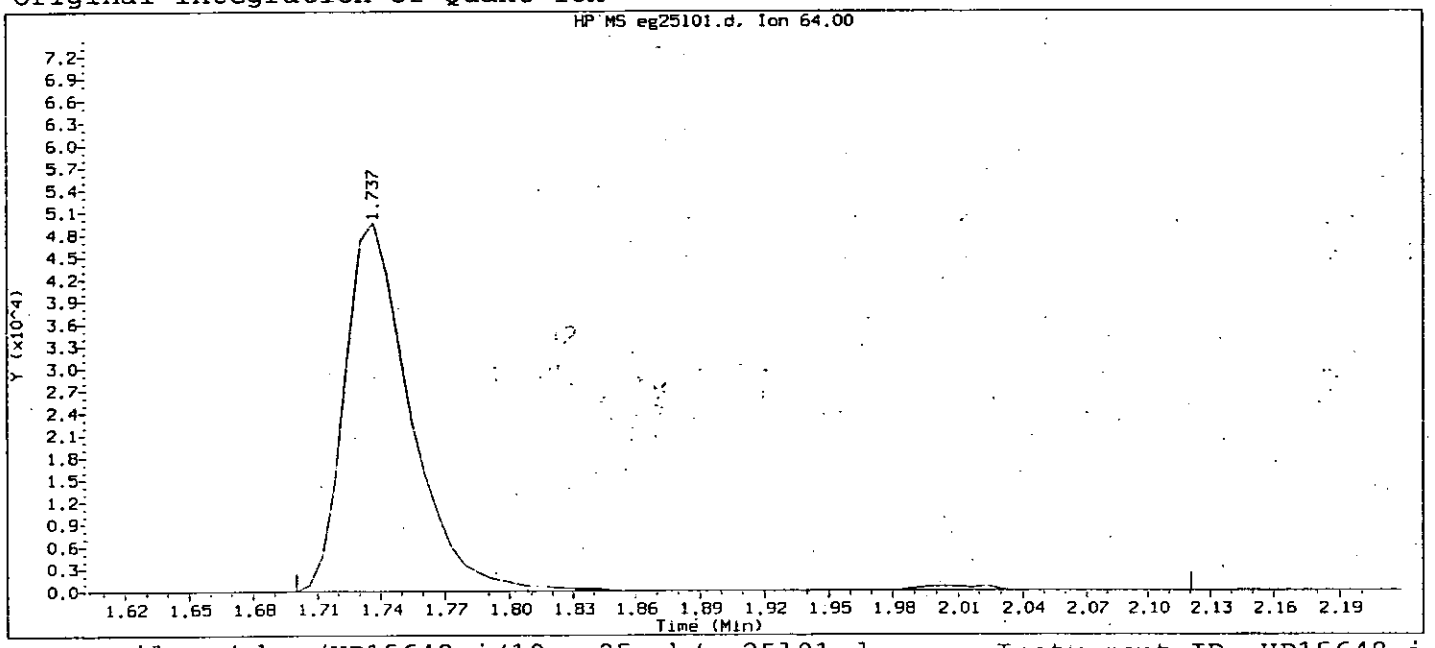
PTL86 8589

GC/MS audit/management approval: YBMS6 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 09:56 Automation

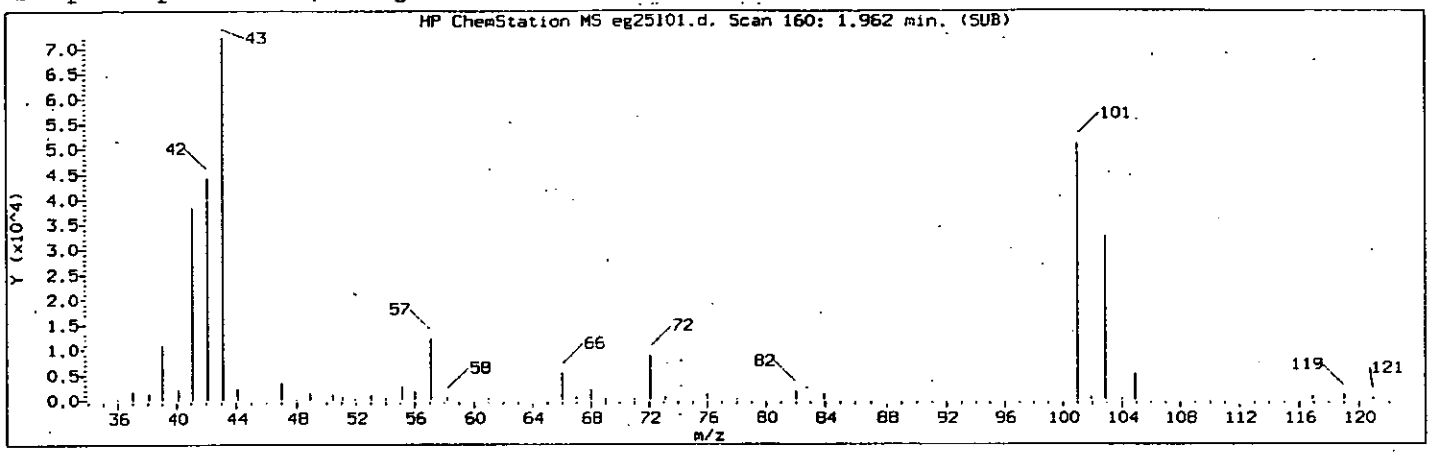
Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number : 6
Compound Name : Chloroethane
Scan Number : 123
Retention Time (minutes): 1.737
Quant Ion : 64.00
Area : 108299
On-column Amount (ng) : 16.6221
Integration start scan : 116 Integration stop scan: 185
Y at integration start : 0 Y at integration end: 0

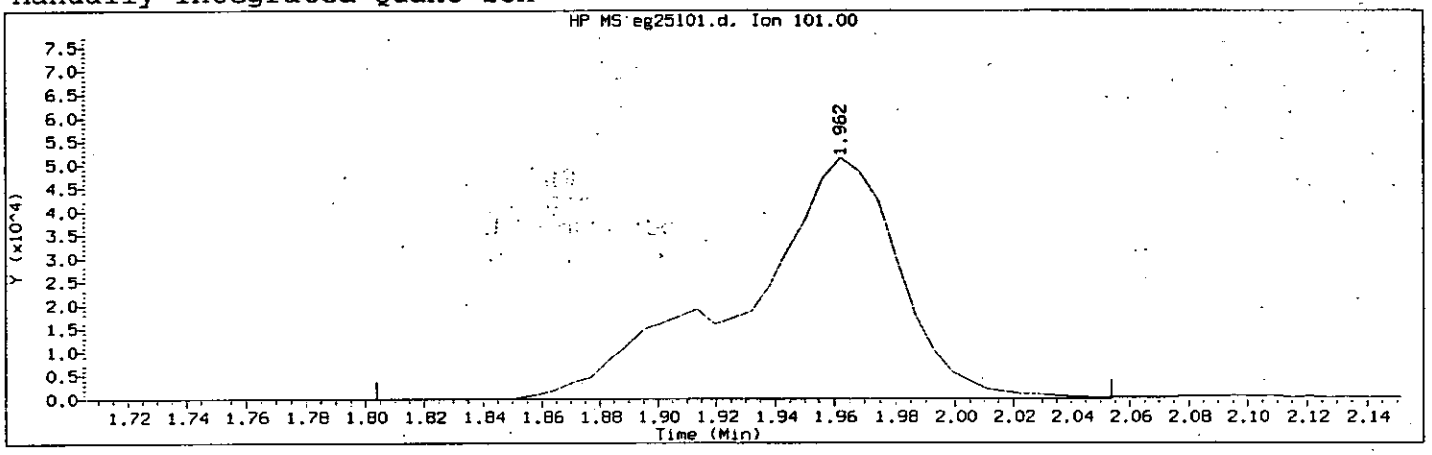
PTL06 8598

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number : 8
Compound Name : Trichlorofluoromethane
Scan Number : 160
Retention Time (minutes): 1.962
Quant Ion : 101.00
Area (flag) : 185937M
On-Column Amount (ng) : 15.4004
Integration start scan : 133 Integration stop scan: 174
Y at integration start : 0 Y at integration end: 0

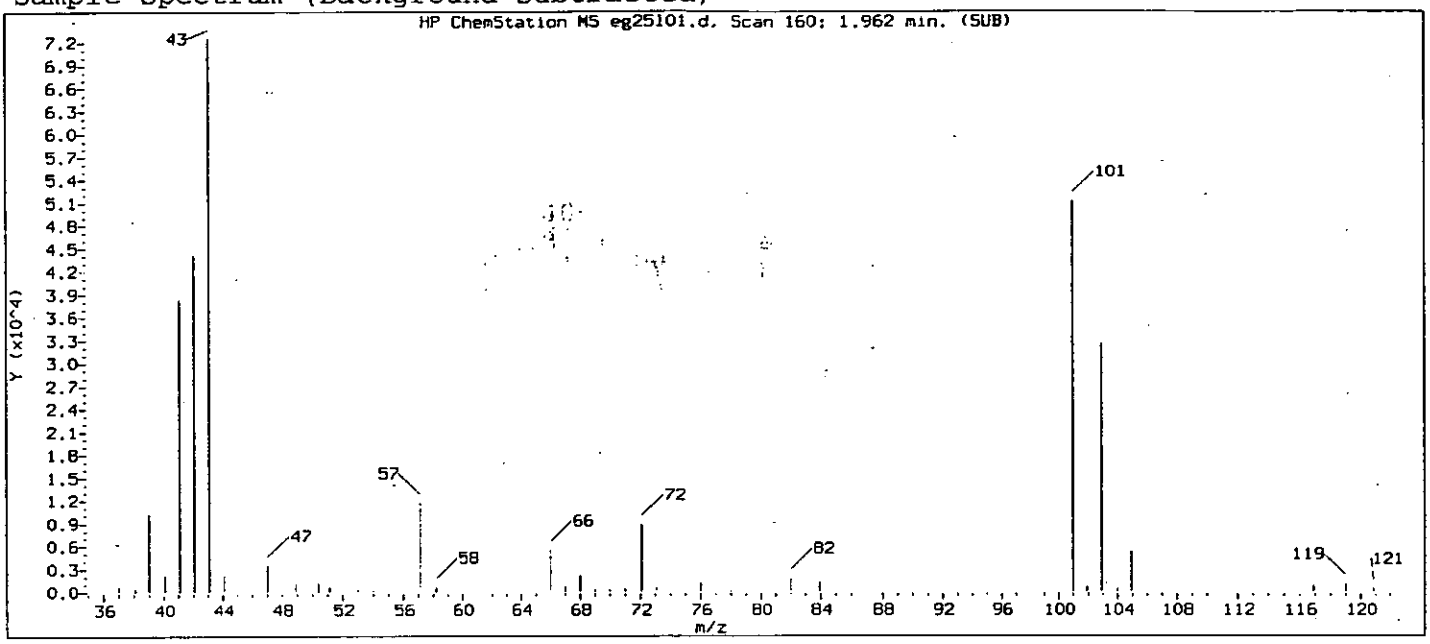
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

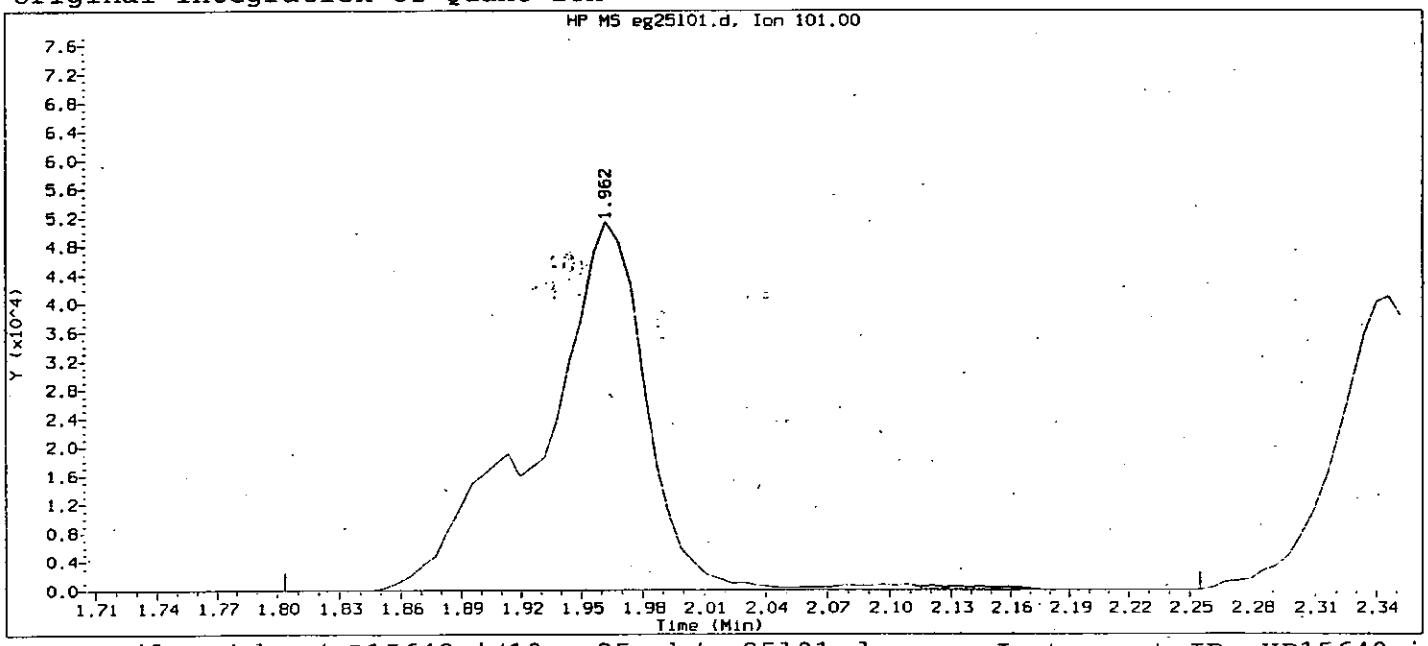
PTL06 8591

GC/MS audit/management approval: HB1986 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 09:56 Automation

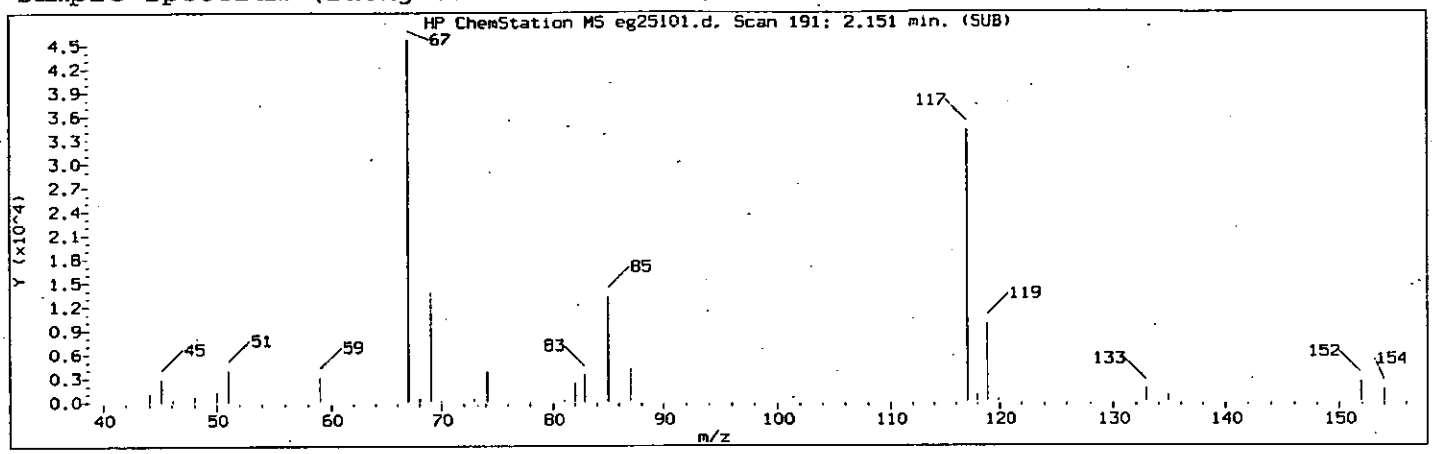
Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number : 8
Compound Name : Trichlorofluoromethane
Scan Number : 160
Retention Time (minutes): 1.962
Quant Ion : 101.00
Area : 189286
On-column Amount (ng) : 15.6778
Integration start scan : 133 Integration stop scan: 207
Y at integration start : 0 Y at integration end: 0

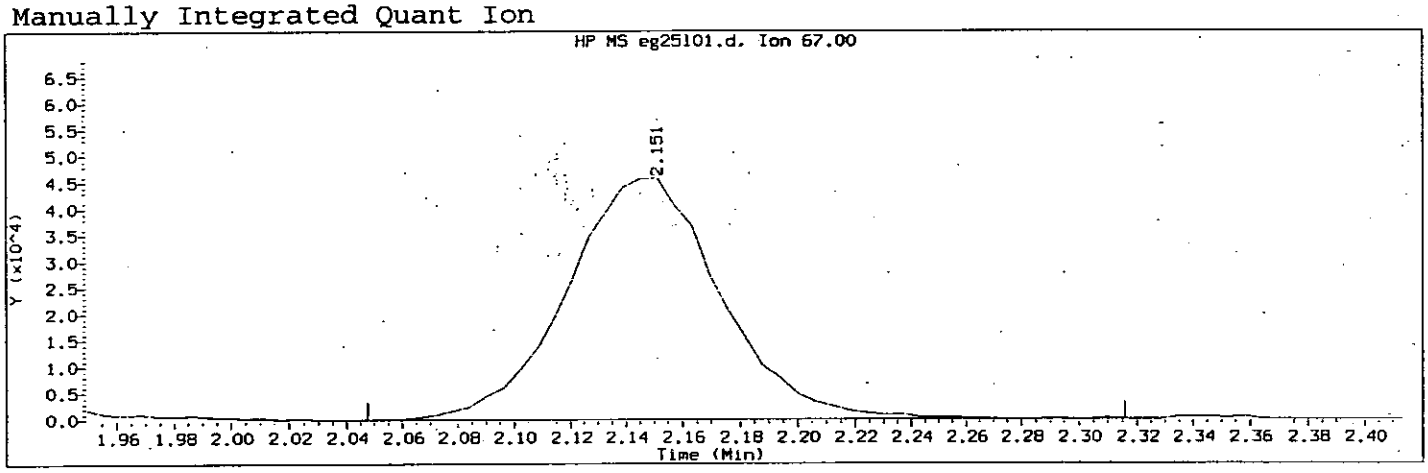
PTL06 0592

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number	: 13		
Compound Name	: Freon 123a		
Scan Number	: 191		
Retention Time (minutes)	: 2.151		
Quant Ion	: 67.00		
Area (flag)	: 173095A		
On-Column Amount (ng)	: 19.3328		
Integration start scan	: 173	Integration stop scan:	217
Y at integration start	: 0	Y at integration end:	0

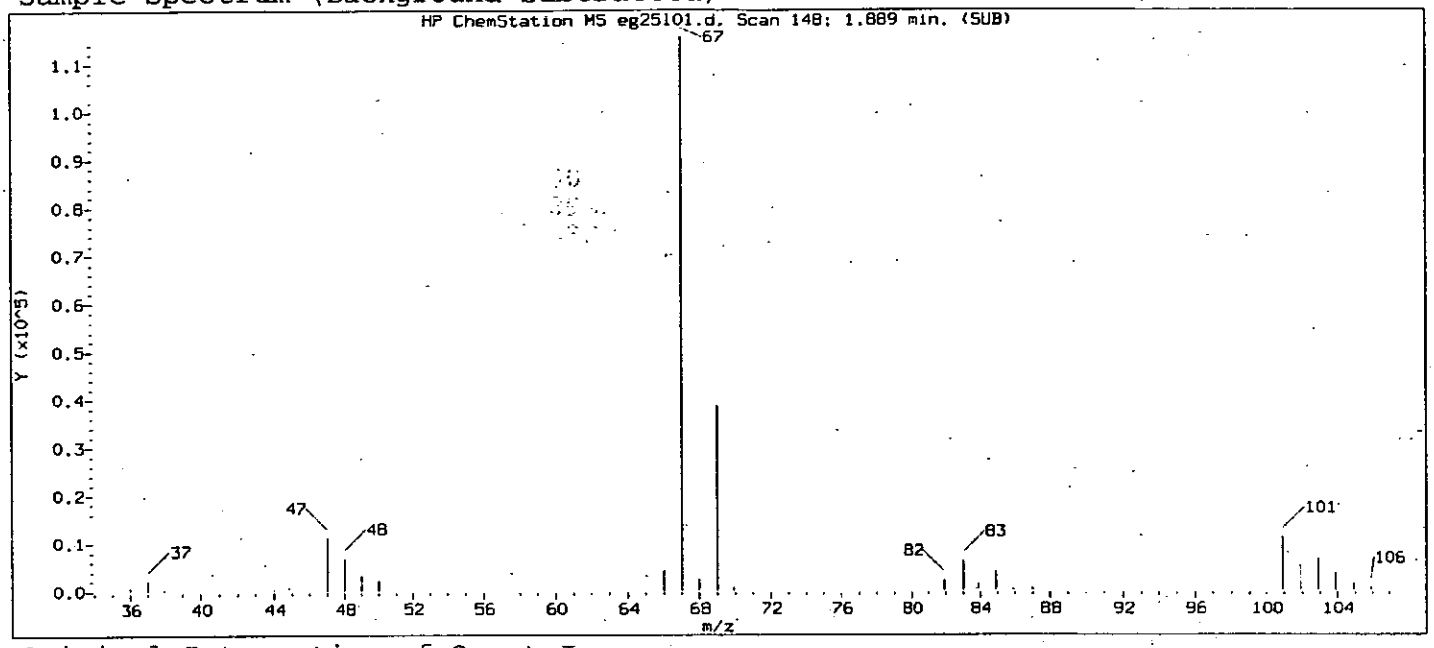
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

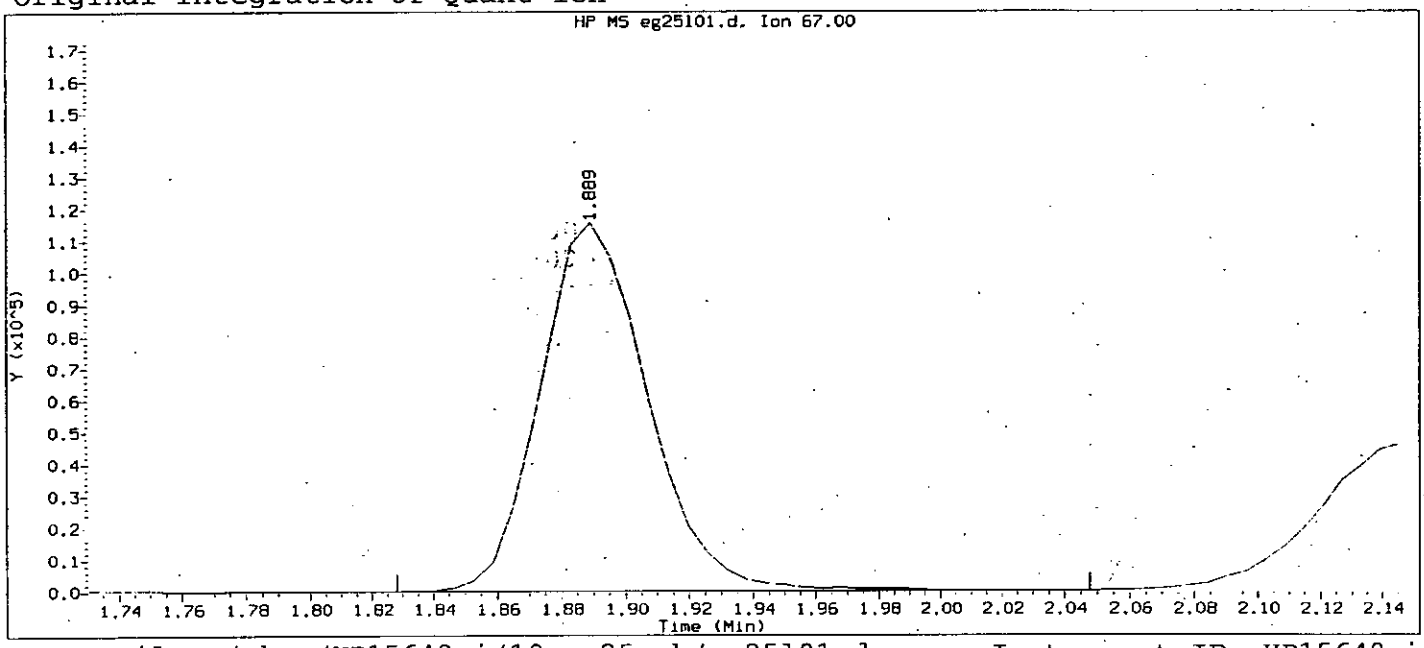
PTL86 0593

GC/MS audit/management approval: HB 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 09:56 Automation

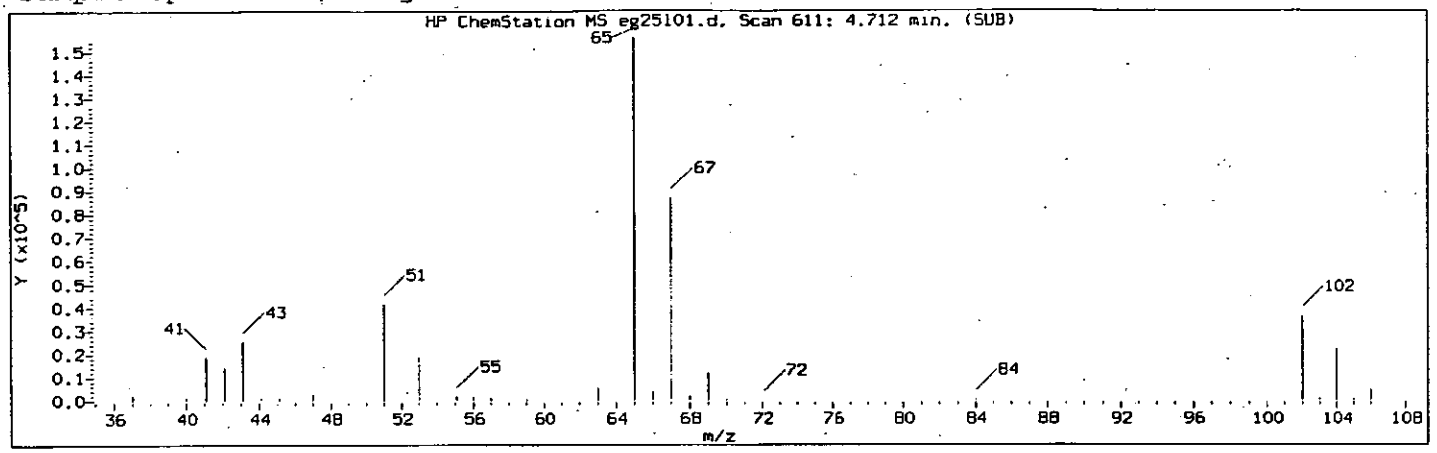
Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number : 13
Compound Name : Freon 123a
Scan Number : 148
Retention Time (minutes): 1.889
Quant Ion : 67.00
Area : 269882
On-column Amount (ng) : 30.1429
Integration start scan : 137 Integration stop scan: 173
Y at integration start : 0 Y at integration end: 0

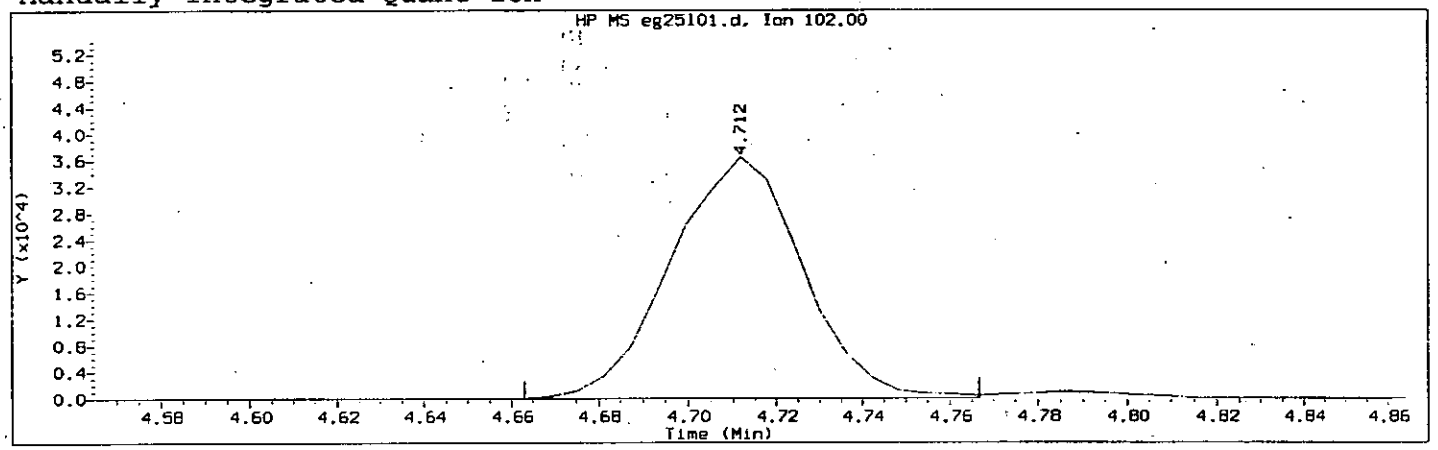
PTL86 0594

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number	: 59		
Compound Name	: 1,2-Dichloroethane-d4		
Scan Number	: 611		
Retention Time (minutes)	: 4.712		
Quant Ion	: 102.00		
Area (flag)	: 75660M		
On-Column Amount (ng)	: 50.1130		
Integration start scan	: 602	Integration stop scan:	619
Y at integration start	: 0	Y at integration end:	0

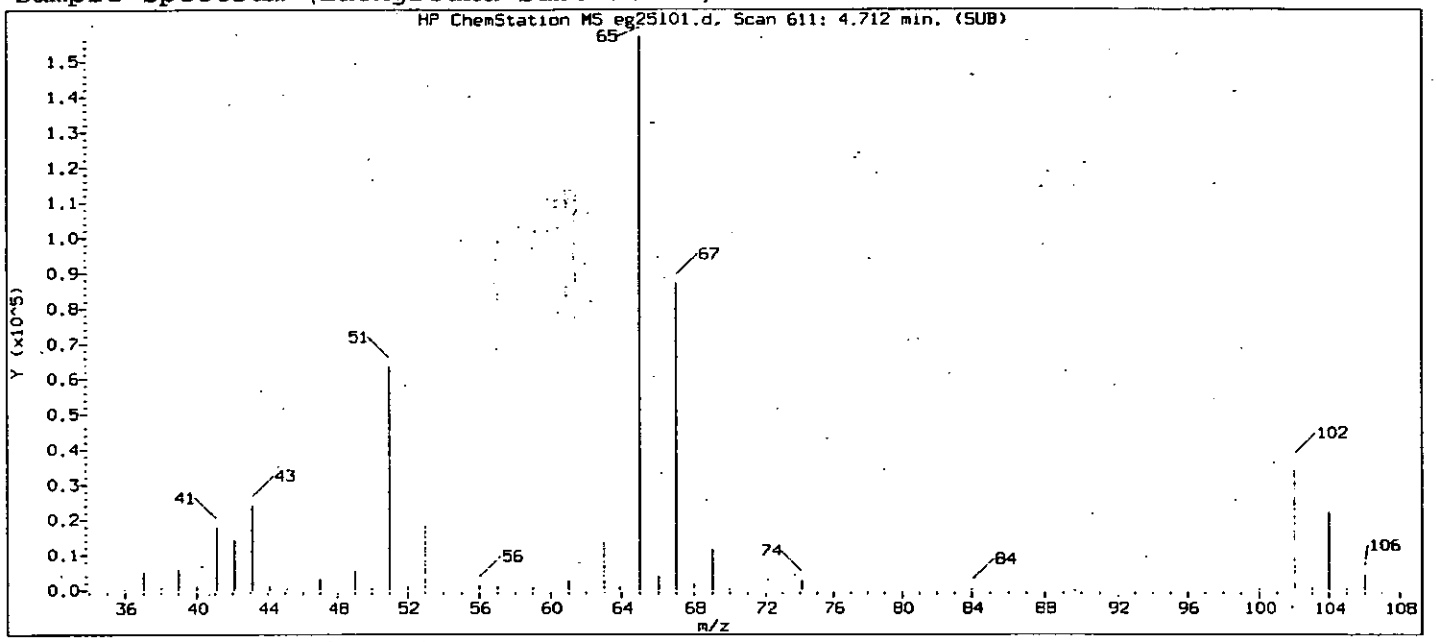
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

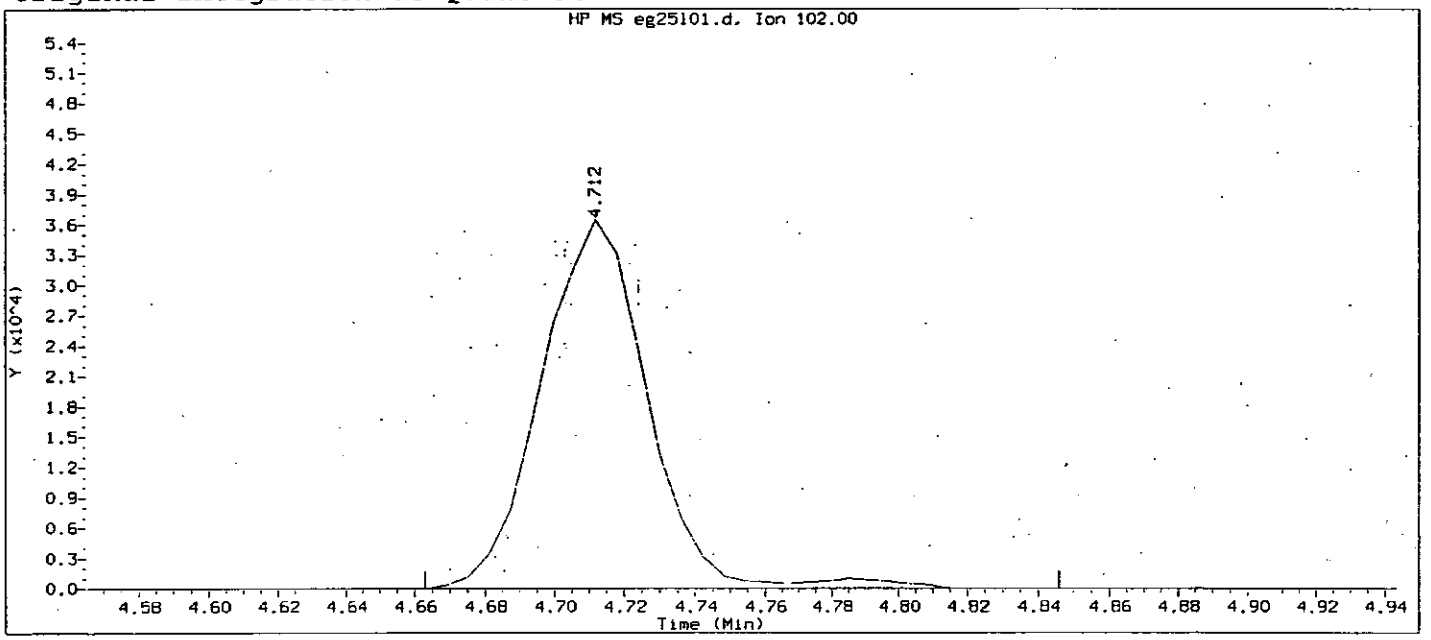
PTL86 8595

GC/MS audit/management approval: HB1996 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 09:56 Automation

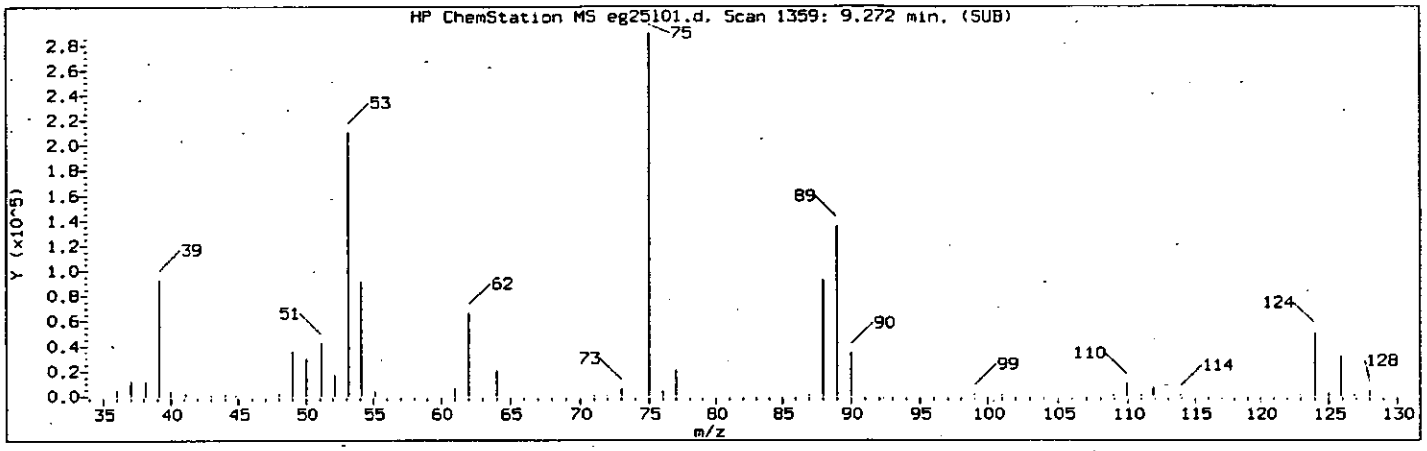
Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number : 59
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 611
Retention Time (minutes): 4.712
Quant Ion : 102.00
Area : 77371
On-column Amount (ng) : 51.2469
Integration start scan : 602 Integration stop scan: 632
Y at integration start : 0 Y at integration end: 0

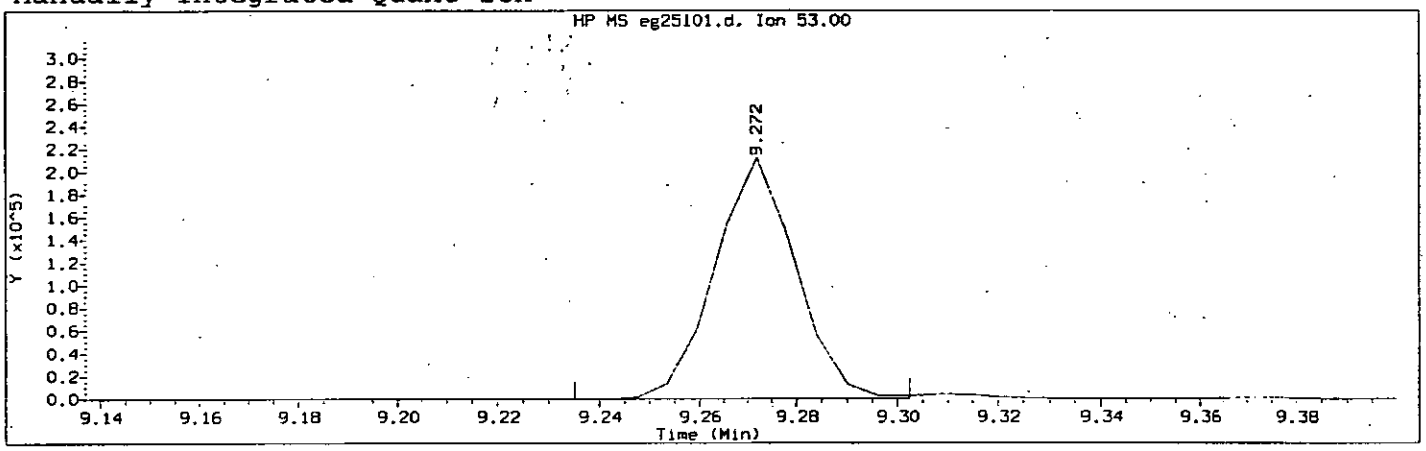
PTL86 0596

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number	: 121		
Compound Name	: trans-1,4-Dichloro-2-Butene		
Scan Number	: 1359		
Retention Time (minutes)	: 9.272		
Quant Ion	: 53.00		
Area (flag)	: 243508M		
On-Column Amount (ng)	: 85.1776		
Integration start scan	: 1352	Integration stop scan:	1363
Y at integration start	: 0	Y at integration end:	0

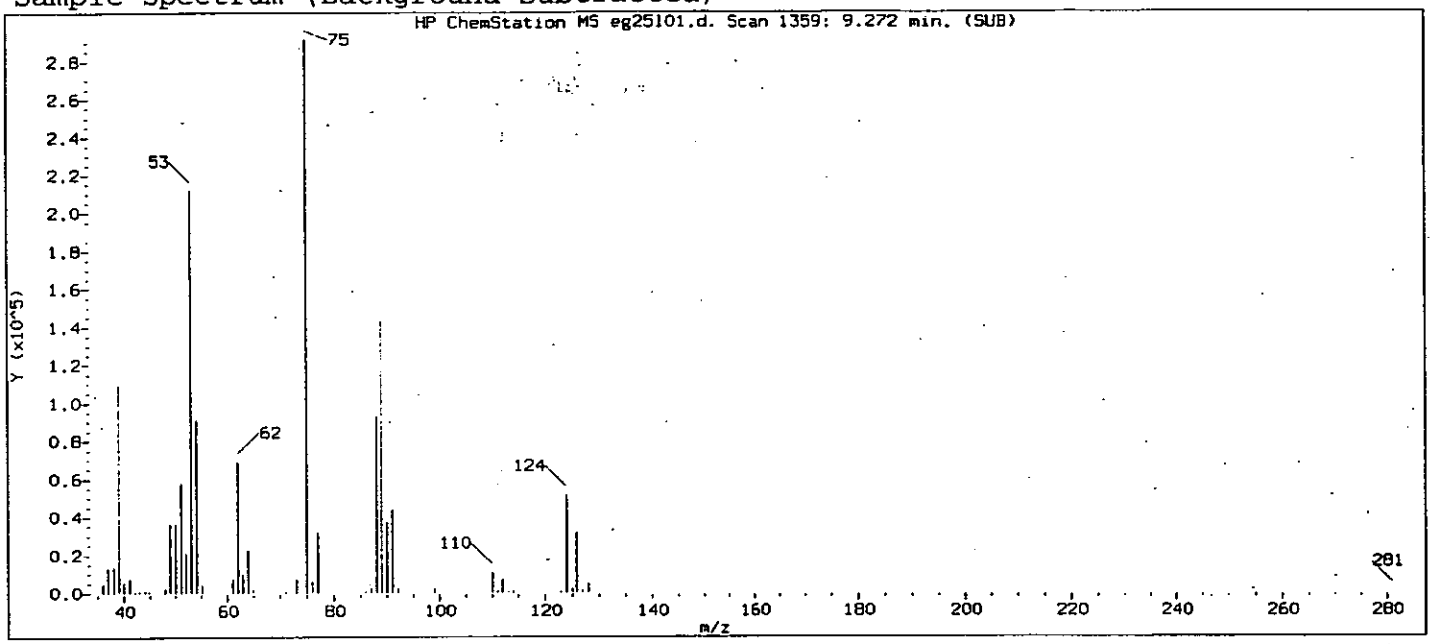
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

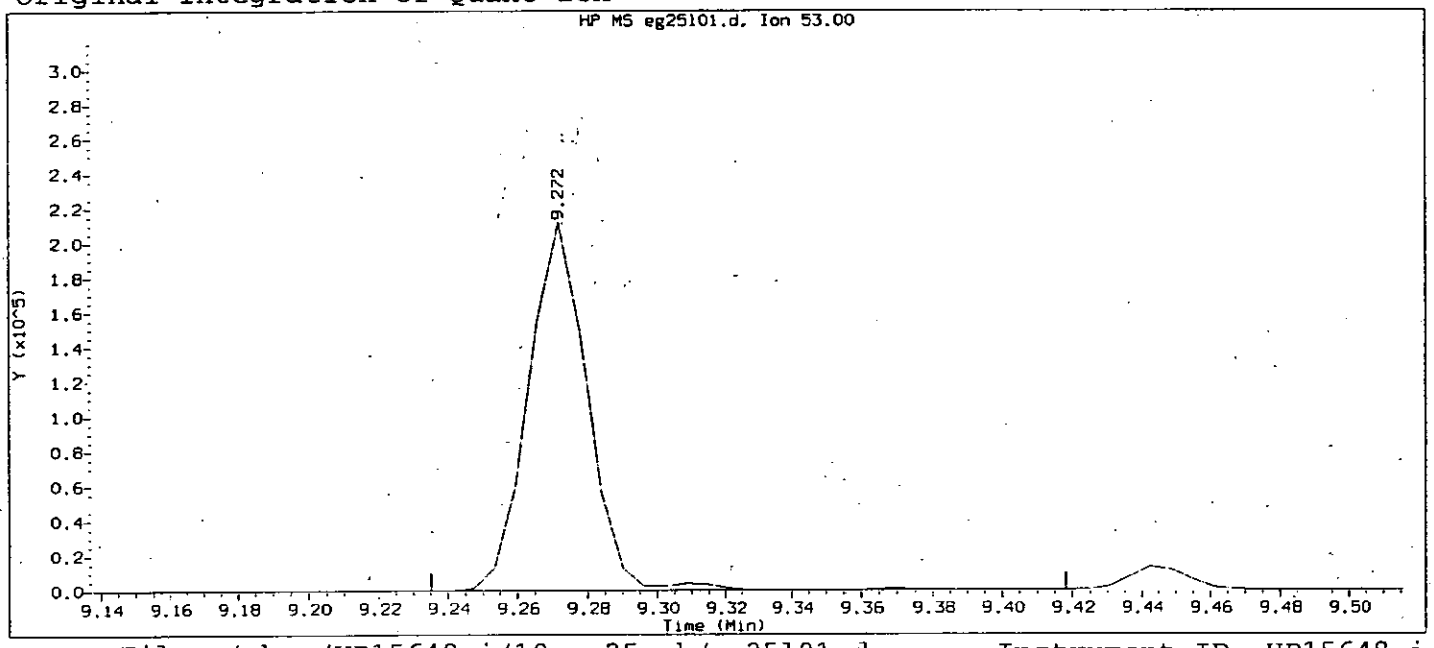
PTL86 8597

GC/MS audit/management approval: MB 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 09:56 Automation

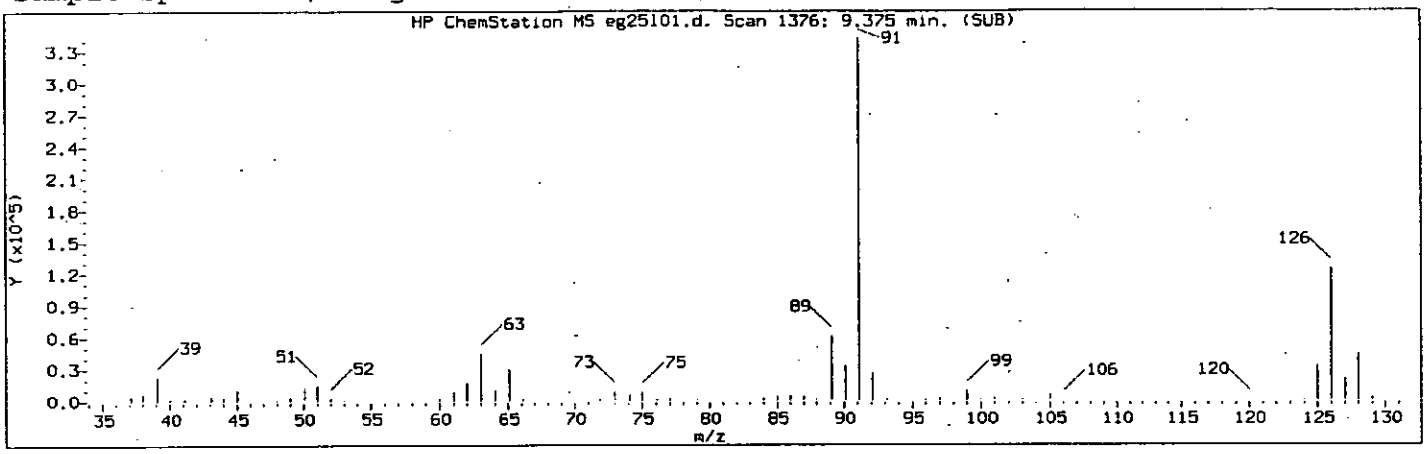
Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number : 121
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1359
Retention Time (minutes): 9.272
Quant Ion : 53.00
Area : 248046
On-column Amount (ng) : 86.7652
Integration start scan : 1352 Integration stop scan: 1382
Y at integration start : 0 Y at integration end: 0

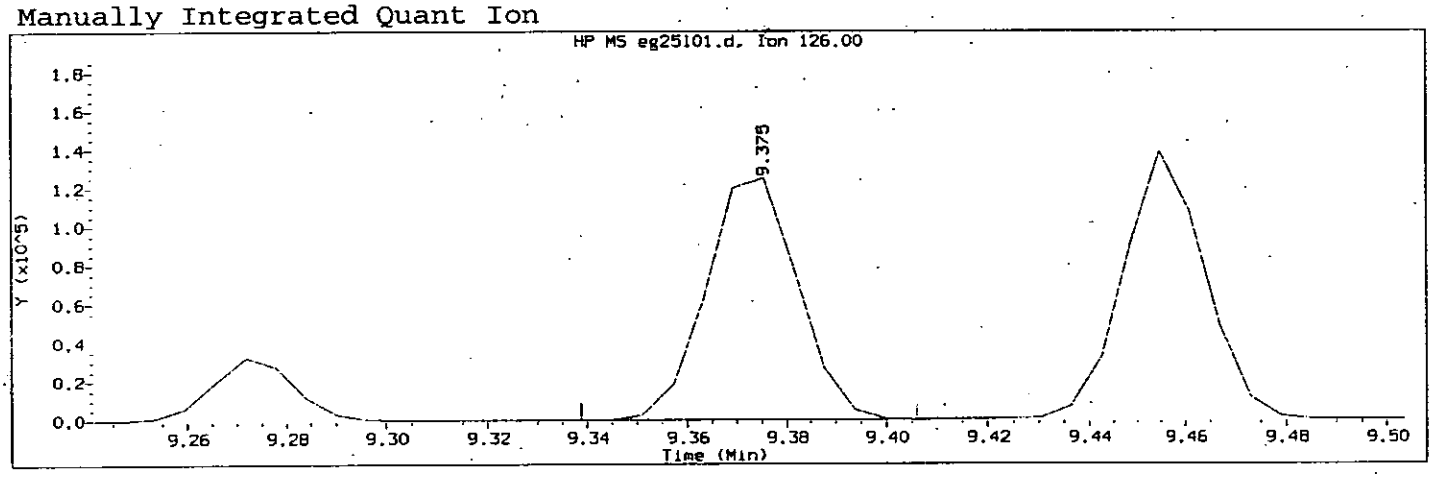
PTL06 8598

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number	: 123		
Compound Name	: 2-Chlorotoluene		
Scan Number	: 1376		
Retention Time (minutes)	: 9.375		
Quant Ion	: 126.00		
Area (flag)	: 160176MA		
On-Column Amount (ng)	: 17.8921		
Integration start scan	: 1369	Integration stop scan:	1380
Y at integration start	: 0	Y at integration end:	0

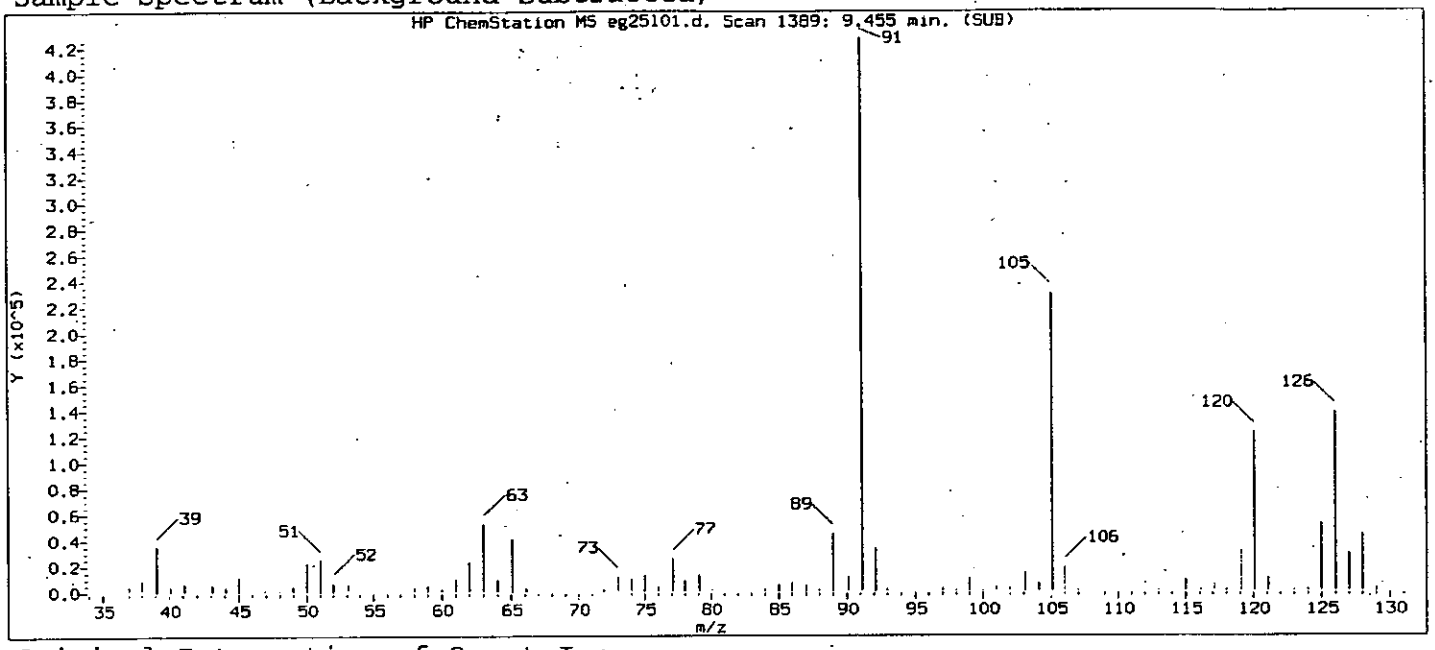
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

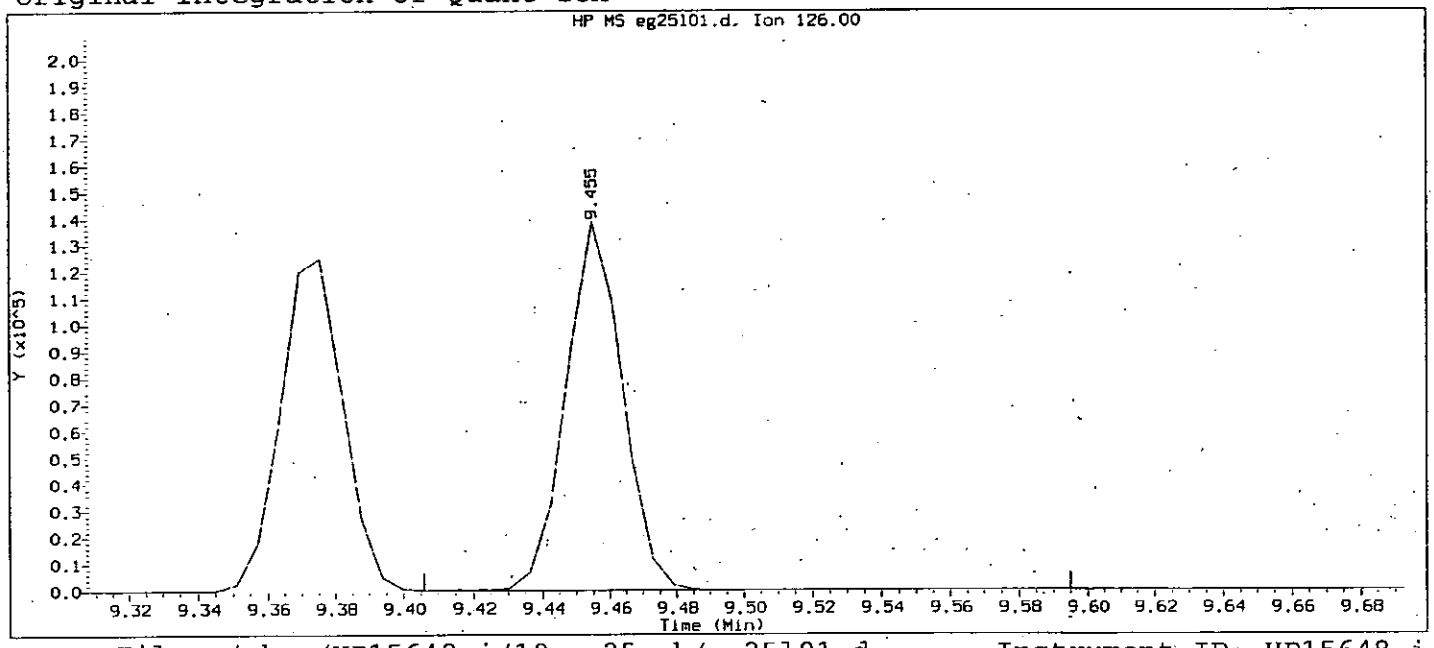
PTL06 08599

GC/MS audit/management approval: HB 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 09:56 Automation

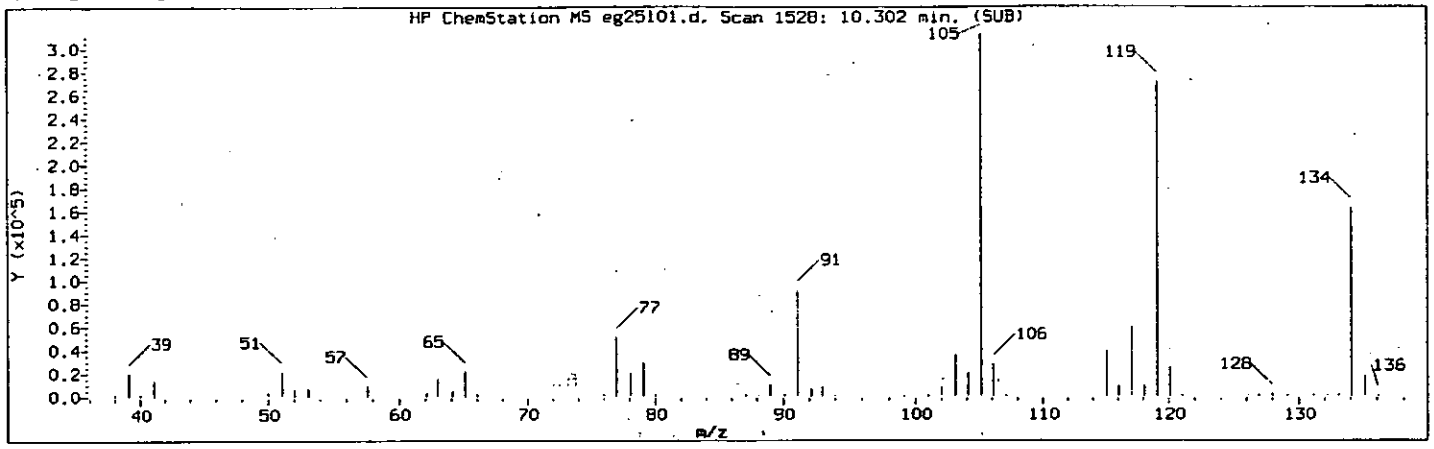
Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number : 123
Compound Name : 2-Chlorotoluene
Scan Number : 1389
Retention Time (minutes): 9.455
Quant Ion : 126.00
Area : 162540
On-column Amount (ng) : 18.1562
Integration start scan : 1380 Integration stop scan: 1411
Y at integration start : 0 Y at integration end: 0

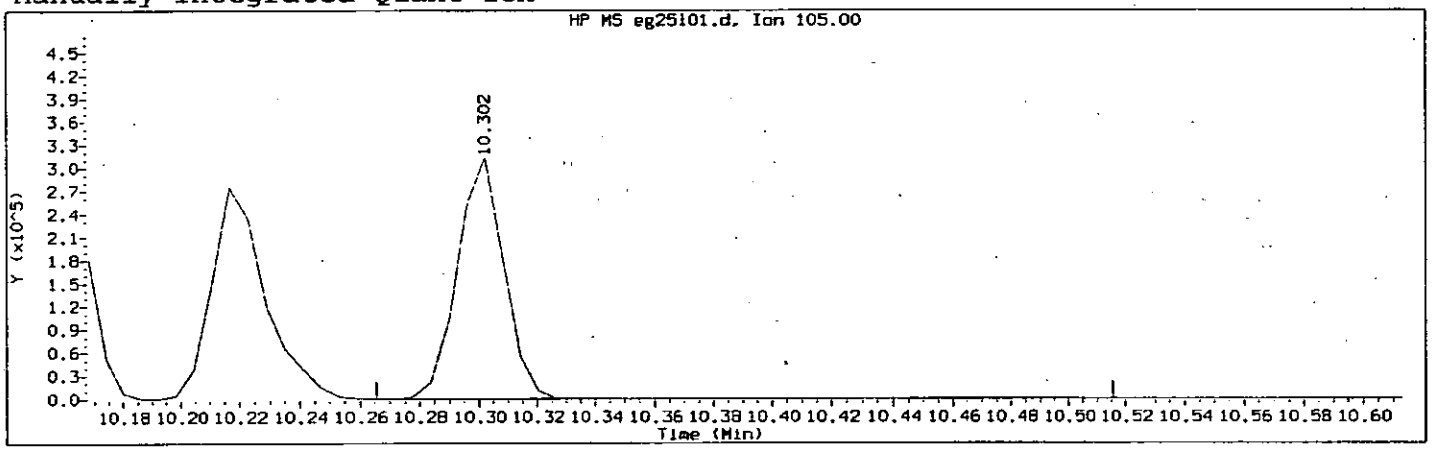
PTL06 0600

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number	: 143		
Compound Name	: 1,2-Diethylbenzene		
Scan Number	: 1528		
Retention Time (minutes)	: 10.302		
Quant Ion	: 105.00		
Area (flag)	: 346234A		
On-Column Amount (ng)	: 18.3828		
Integration start scan	: 1521	Integration stop scan:	1562
Y at integration start	: 0	Y at integration end:	0

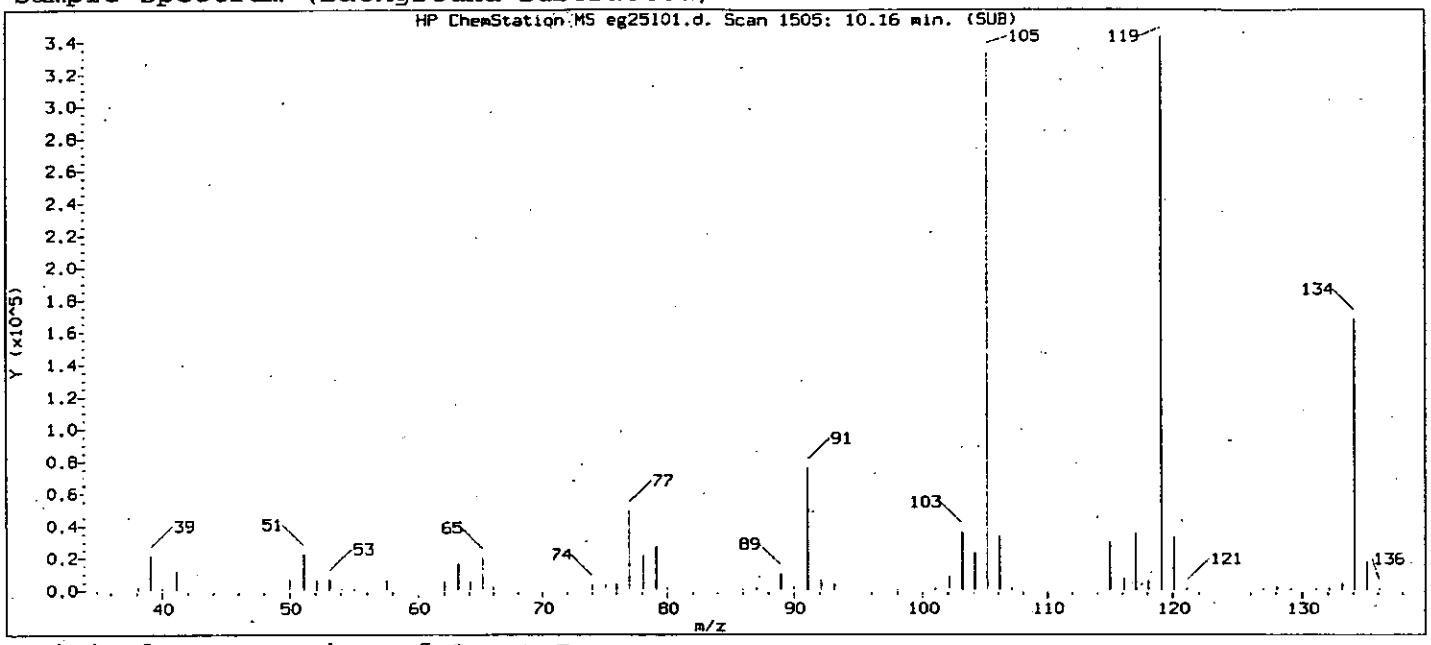
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57. Target 3.5 esignature user ID: sas00403

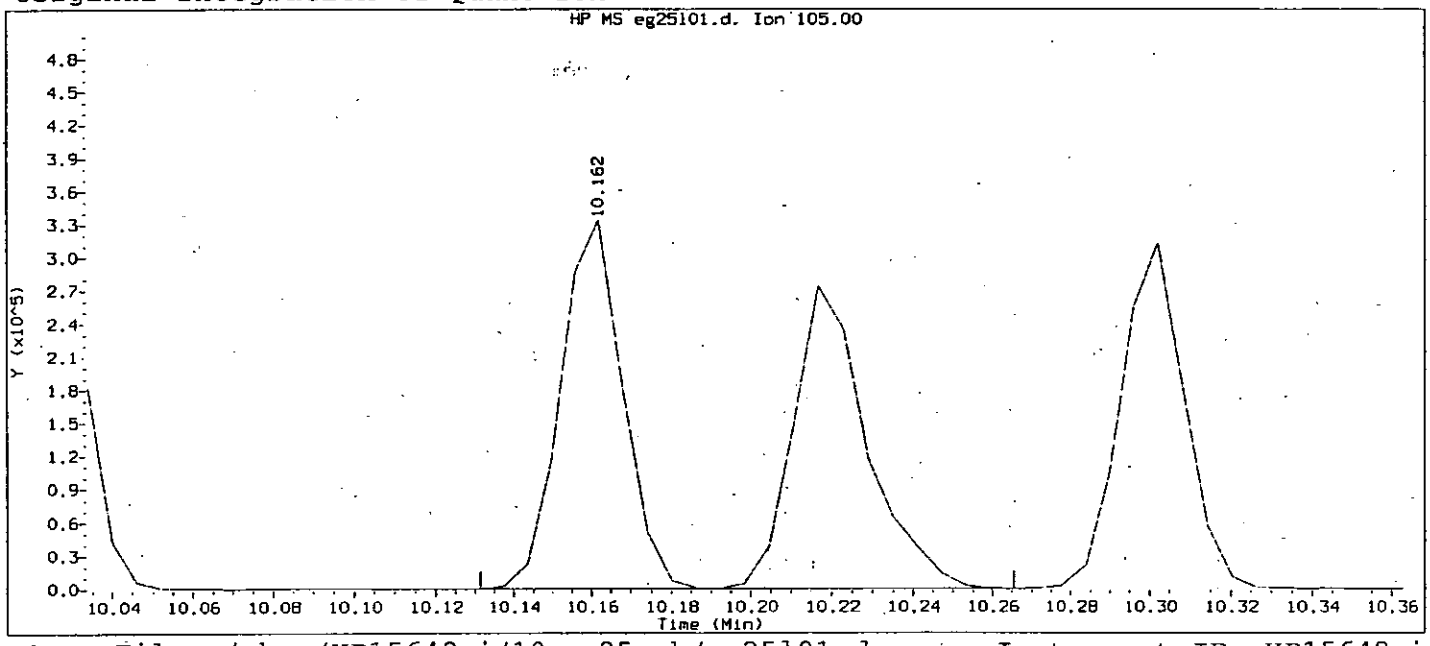
PTL86 0681

GC/MS audit/management approval: MB 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25101.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:38 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 09:56 Automation

Sample Name: LCSE07 Lab Sample ID: LCSE07

Compound Number : 143
Compound Name : 1,2-Diethylbenzene
Scan Number : 1505
Retention Time (minutes): 10.162
Quant Ion : 105.00
Area : 710812
On-column Amount (ng) : 37.7395
Integration start scan : 1499 Integration stop scan: 1521
Y at integration start : 0 Y at integration end: 0

PTL86 0682

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:57.
Target 3.5 esignature user ID: sas00403

LCDE07 Lancaster Laboratories LCDE07

Analysis Summary for GC/MS Volatiles

Data file: /chem/HP15648.i/10aug25a.b/eg25102.d
Data file Sample Info. Line: LCDE07;LCDE07;1;3;LCSD;;;
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Injection date and time: **25-AUG-2010 09:58**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W,m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 11:32
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
25) t-Butyl Alcohol-d10	2.755(0.006)	290	65	153108 (-21)	250.00	
69) Fluorobenzene	5.041(0.006)	665	96	1330077 (7)	50.00	
103) Chlorobenzene-d5	8.126(0.000)	1171	117	954591 (8)	50.00	
135) 1,4-Dichlorobenzene-d4	9.967(0.006)	1473	152	520674 (6)	50.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
50) Dibromofluoromethane	(1)	4.376(0.000)	113	301198	50.644	101%		80 - 116
59) 1,2-Dichloroethane-d4	(1)	4.706(0.000)	102	78345	49.613	99%		77 - 113
90) Toluene-d8	(2)	6.681(0.001)	98	1333573	50.518	101%		80 - 113
116) 4-Bromofluorobenzene	(2)	9.107(0.000)	95	471773	50.376	101%		78 - 113

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc.. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
1) Dichlorodifluoromethane	(1)	1.286(0.000)	85	152103	13.006	13.01			2
2) Chloromethane	(1)	1.353(0.002)	50	172746	14.483	14.48			1
3) 1,3-Butadiene	(1)	1.450(0.002)	39	114034	15.182	15.18			1
4) Vinyl Chloride	(1)	1.444(0.003)	62	167557	14.531	14.53			1
5) Bromomethane	(1)	1.657(0.004)	94	108408	14.846	14.85			1
6) Chloroethane	(1)	1.724(0.003)	64	106015M	15.557	15.56			1
7) Dichlorofluoromethane	(1)	1.883(0.001)	67	266047	17.876	17.88			2
8) Trichlorofluoromethane	(1)	1.956(0.001)	101	185740M	14.709	14.71			2
9) n-Pentane	(1)			Not Detected					2
12) Ethyl Ether	(1)	2.108(0.001)	59	101895	15.713	15.71			2
13) Freon 123a	(1)	2.139(0.001)	67	168176A	17.959	17.96			2
14) Acrolein	(4)	2.224(0.000)	56	207915	120.861	120.86			40
15) 1,1-Dichloroethene	(1)	2.316(0.001)	96	135382	17.966	17.97			0.8
17) Freon 113	(1)	2.340(0.000)	101	138495	18.262	18.26			2
16) Acetone	(1)	2.340(0.001)	43	346988	144.842	144.84			6
18) Methyl Iodide	(1)	2.456(0.001)	142	226344	18.223	18.22			1
21) Carbon Disulfide	(1)	2.523(0.001)	76	384392	18.476	18.48			1
22) Allyl Chloride	(1)	2.614(0.001)	41	193127	15.920	15.92			1
23) Methyl Acetate	(1)	2.627(0.000)	43	100571	15.739	15.74			1
24) Methylene Chloride	(1)	2.730(0.001)	84	141237	17.922	17.92			2
26) t-Butyl Alcohol	(4)	2.828(-0.000)	59	137350	187.128	187.13			10
27) Acrylonitrile	(1)	2.944(0.001)	53	278475	77.596	77.60			4
28) trans-1,2-Dichloroethene	(1)	2.974(0.000)	96	139897	17.836	17.84			0.8
29) Methyl Tertiary Butyl Ether	(1)	2.980(0.000)	73	392688	18.135	18.14			0.5
31) n-Hexane	(1)	3.218(0.001)	57	219312	18.003	18.00			2
36) 1,2-Dichloroethene (total)	(1)		96	284757	35.328	35.33			0.8
33) 1,1-Dichloroethane	(1)	3.358(0.001)	63	256024	18.239	18.24			1
34) di-Isopropyl Ether	(1)	3.425(0.001)	45	431885	18.262	18.26			0.8
35) 2-Chloro-1,3-Butadiene	(1)	3.444(0.001)	53	223556	20.470	20.47			1
37) Ethyl t-Butyl Ether	(1)	3.773(0.001)	59	404919	18.342	18.34			0.8
39) cis-1,2-Dichloroethene	(1)	3.913(0.000)	96	144860	17.492	17.49			0.8
40) 2-Butanone	(1)	3.919(0.000)	43	522499	129.987	129.99			3
41) 2,2-Dichloropropane	(1)	3.919(0.002)	77	187977	17.957	17.96			1
42) Propionitrile	(4)	3.986(-0.003)	54	163589	135.271	135.27			30

PTL86 ,0683

M = Compound was manually integrated. A = User selected an alternate peak.

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58. Target 3.5 esignature user ID: sas00403

LCDE07 Lancaster Laboratories LCDE07

Analysis Summary for GC/MS Volatiles

Data file: /chem/HP15648.i/10aug25a.b/eg25102.d
Data file Sample Info. Line: LCDE07;LCDE07;1;3;LCSD;;;
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Injection date and time: **25-AUG-2010 09:58**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 11:32
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
44) Methacrylonitrile	(1)	4.126(0.000)	67	475991	132.135	132.13			10
45) Bromochloromethane	(1)	4.145(0.000)	128	65505	16.650	16.65			1
46) Tetrahydrofuran	(4)	4.181(-0.001)	71	96216	85.716	85.72			4
47) Chloroform	(1)	4.224(0.000)	83	223194	17.954	17.95			0.8
52) 1,1,1-Trichloroethane	(1)	4.401(0.001)	97	223494	18.664	18.66			0.8
53) Cyclohexane	(1)	4.456(0.001)	56	276504	18.809	18.81			2
55) 1,1-Dichloropropene	(1)	4.559(0.000)	75	203054	17.946	17.95			1
56) Carbon Tetrachloride	(1)	4.565(0.000)	117	154994	17.834	17.83			1
58) Isobutyl Alcohol	(4)	4.687(-0.001)	41	111649	449.733	449.73			100
63) Benzene	(1)	4.760(0.000)	78	571387	17.656	17.66			0.5
65) 1,2-Dichloroethane	(1)	4.779(0.000)	62	171411	18.508	18.51			1
67) t-Amyl Methyl Ether	(1)	4.882(0.000)	73	381925	17.827	17.83			0.8
68) n-Heptane	(1)	5.035(0.000)	43	214220	17.677	17.68			2
71) n-Butanol	(4)	5.352(-0.002)	56	192393	876.470	876.47			100
72) Trichloroethene	(1)	5.413(-0.001)	95	145764	17.520	17.52			1
76) 1,2-Dichloropropane	(1)	5.638(-0.000)	63	146528	17.903	17.90			1
74) Methylcyclohexane	(1)	5.608(-0.000)	83	260271	16.890	16.89			1
79) Methyl Methacrylate	(1)	5.772(-0.000)	69	103567	15.087	15.09			1
78) Dibromomethane	(1)	5.760(-0.000)	93	81346	17.448	17.45			1
80) 1,4-Dioxane	(4)	5.785(-0.002)	88	34184	481.066	481.07			70
81) Bromodichloromethane	(1)	5.931(-0.001)	83	153316	17.493	17.49			1
82) 2-Nitropropane	(1)	6.169(-0.000)	41	22492	14.605	14.61			2
83) 2-Chloroethyl Vinyl Ether	(1)	6.254(-0.000)	63	94432	16.883	16.88			2
87) cis-1,3-Dichloropropene	(1)	6.400(-0.000)	75	198991	17.119	17.12			1
88) 4-Methyl-2-Pentanone	(1)	6.571(-0.000)	43	733395	82.179	82.18			3
91) Toluene	(2)	6.754(0.000)	92	368833	17.621	17.62			0.7
92) trans-1,3-Dichloropropene	(2)	7.004(-0.000)	75	182057	17.011	17.01			1
93) Ethyl Methacrylate	(2)	7.120(-0.000)	69	170347	19.244	19.24			1
94) 1,1,2-Trichloroethane	(2)	7.193(0.000)	97	117090	17.324	17.32			0.8
96) Tetrachloroethene	(2)	7.333(0.000)	166	164030	16.855	16.85			0.8
97) 1,3-Dichloropropane	(2)	7.370(-0.000)	76	206022	17.260	17.26			1
98) 2-Hexanone	(2)	7.461(0.000)	43	515659	87.735	87.74			3
100) Dibromochloromethane	(2)	7.589(0.000)	129	109335	16.590	16.59			1
101) 1,2-Dibromoethane	(2)	7.693(-0.000)	107	115252	16.768	16.77			1
104) Chlorobenzene	(2)	8.150(0.000)	112	396962	17.520	17.52			0.8
106) 1,1,1,2-Tetrachloroethane	(2)	8.229(0.000)	131	112466	16.666	16.67			1
107) Ethylbenzene	(2)	8.254(0.000)	91	694312	17.312	17.31			0.8
108) m+p-Xylene	(2)	8.357(0.000)	106	547471	34.743	34.74			0.8
105) Xylene (Total)	(2)		106	808694	51.870	51.87			0.8
110) o-Xylene	(2)	8.693(0.000)	106	261223	17.128	17.13			0.8
111) Styrene	(2)	8.705(0.000)	104	417117	17.321	17.32			1
112) Bromoform	(2)	8.851(0.000)	173	74790	15.478	15.48			1
113) Isopropylbenzene	(2)	8.991(0.000)	105	701506	17.475	17.47			1
115) Cyclohexanone	(4)	9.058(-0.007)	55	114495	474.825	474.82			55
119) 1,1,2,2-Tetrachloroethane	(3)	9.229(-0.000)	83	169134	16.856	16.86			1
121) trans-1,4-Dichloro-2-Butene	(3)	9.272(-0.000)	53	248435	82.611	82.61			15
118) Bromobenzene	(3)	9.223(-0.000)	156	157544	17.095	17.10			1
120) 1,2,3-Trichloropropane	(3)	9.260(-0.000)	110	48351	16.335	16.33			1
122) n-Propylbenzene	(3)	9.308(0.000)	91	840576	17.799	17.80			1
123) 2-Chlorotoluene	(3)	9.375(-0.000)	126	162184	17.222	17.22			1
124) 1,3,5-Trimethylbenzene	(3)	9.442(0.000)	105	562878	17.451	17.45			1
125) 4-Chlorotoluene	(3)	9.455(-0.000)	126	164883	17.277	17.28			1
127) tert-Butylbenzene	(3)	9.686(-0.000)	134	136882	17.059	17.06			1
128) Pentachloroethane	(3)	9.698(-0.000)	167	83448	17.378	17.38			1
130) 1,2,4-Trimethylbenzene	(3)	9.723(-0.000)	105	576191	17.231	17.23			1

PTL06 1 6684

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LCDE07 Lancaster Laboratories LCDE07

Analysis Summary for GC/MS Volatiles

Data file: /chem/HP15648.i/10aug25a.b/eg25102.d
Data file Sample Info. Line: LCDE07;LCDE07;1;3;LCSD;;;
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Injection date and time: **25-AUG-2010 09:58**
Instrument ID: **HP15648.i** Batch: **E102371AA**

Blank Data file reference: **/chem/HP15648.i/10aug25a.b/eg25b01.d**

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: **8260W**
Calibration date and time (Last Method Edit): 25-AUG-2010 11:32
Mid Level Daily Calibration Standard Reference: **/chem/HP15648.i/10aug25a.b/eg25c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (on-column)
132) sec-Butylbenzene	(3)	9.845(-0.000)	105	740701	17.478	17.48			1
134) p-Isopropyltoluene	(3)	9.948(-0.000)	119	632415	17.164	17.16			1
133) 1,3-Dichlorobenzene	(3)	9.924(-0.000)	146	309143	17.323	17.32			1
136) 1,4-Dichlorobenzene	(3)	9.985(-0.000)	146	313010	17.338	17.34			1
137) 1,2,3-Trimethylbenzene	(3)	10.022(-0.000)	105	577683	17.638	17.64			1
138) Benzyl Chloride	(3)	10.083(-0.000)	91	254639	15.610	15.61			1
139) 1,3-Diethylbenzene	(3)	10.162(-0.000)	105	372118	17.510	17.51			1
140) 1,4-Diethylbenzene	(3)	10.217(-0.000)	105	340789MA	17.244	17.24			1
141) n-Butylbenzene	(3)	10.235(-0.000)	92	313336	16.994	16.99			1
142) 1,2-Dichlorobenzene	(3)	10.247(-0.000)	146	295681	17.320	17.32			1
143) 1,2-Diethylbenzene	(3)	10.302(-0.000)	105	345388MA	17.432	17.43			1
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778(-0.000)	75	29912	16.659	16.66			2
146) 1,2,4-Trichlorobenzene	(3)	11.326(-0.000)	180	205667	16.549	16.55			1
147) Hexachlorobutadiene	(3)	11.430(-0.000)	225	92087	15.922	15.92			2
148) Naphthalene	(3)	11.485(-0.000)	128	581267	16.223	16.22			1
149) 1,2,3-Trichlorobenzene	(3)	11.637(-0.000)	180	194800	16.892	16.89			1
152) 2-Methylnaphthalene	(3)	12.198(-0.000)	142	313375	16.555	16.55			2

M = Compound was manually integrated. A = User selected an alternate peak.

Total number of targets = 106

Comments:

PTL86 0685

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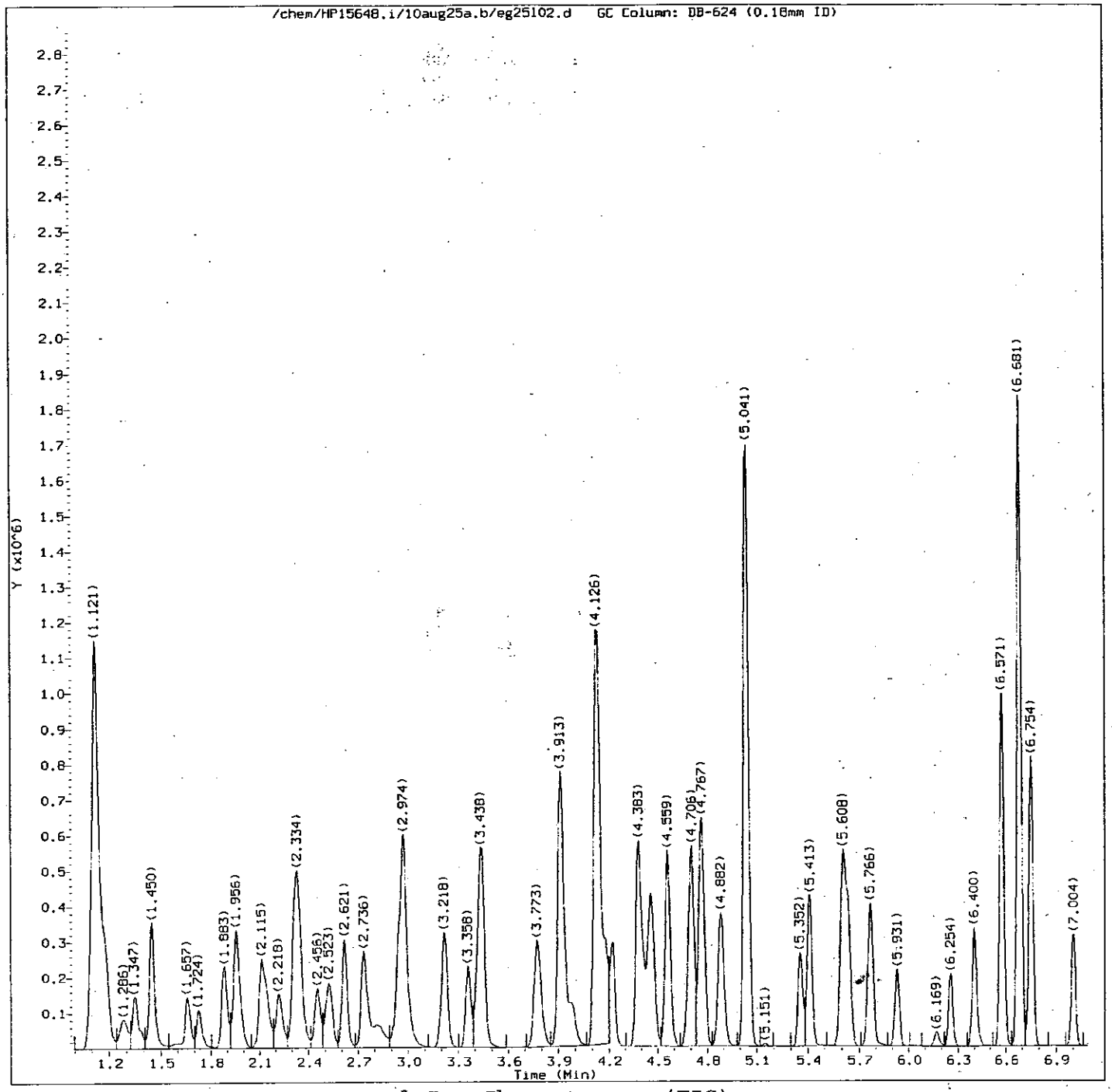
Auditor: MB1986 Date: 8/26/10



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25102.d
Injection date and time: 25-AUG-2010 09:58

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 8260W

Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07

Lab Sample ID: LCDE07

PTL86 8686

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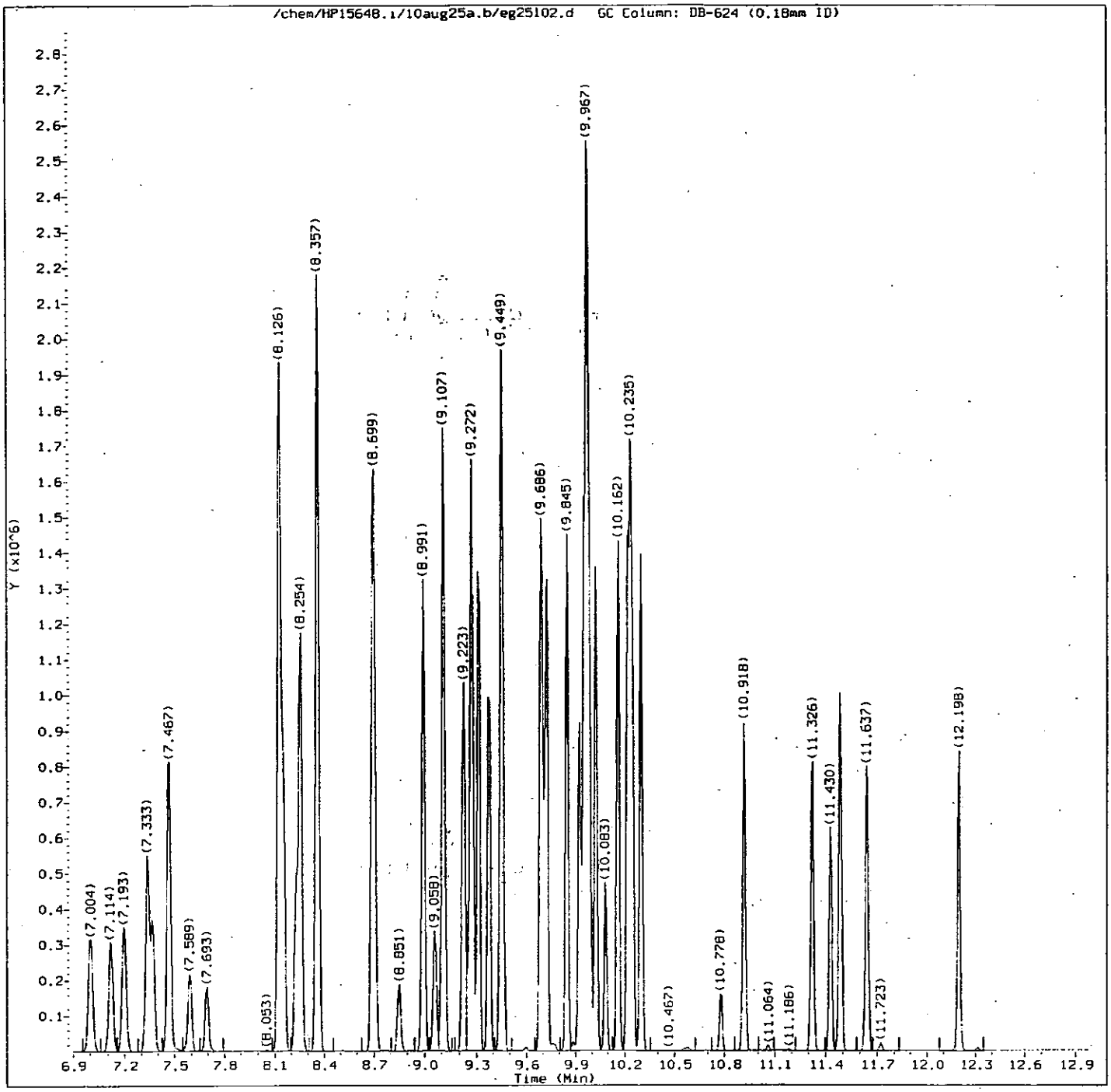
Target 3.5 esignature user ID: sas00403



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25102.d
Injection date and time: 25-AUG-2010 09:58

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 8260W

Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07

Lab Sample ID: LCDE07

PTL06 0687

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on 08/26/2010 at 05:58.
Target 3.5 esignature user ID: sas00403

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25102.d
Injection date and time: 25-AUG-2010 09:58

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 8260W

Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07

Lab Sample ID: LCDE07

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	1.286	85	152103	13.006
2) Chloromethane	(1)	1.353	50	172746	14.483
4) Vinyl Chloride	(1)	1.444	62	167557	14.531
3) 1,3-Butadiene	(1)	1.450	39	114034	15.182
5) Bromomethane	(1)	1.657	94	108408	14.846
6) Chloroethane	(1)	1.724	64	106015M	15.557
7) Dichlorofluoromethane	(1)	1.883	67	266047	17.876
8) Trichlorofluoromethane	(1)	1.956	101	185740M	14.709
12) Ethyl Ether	(1)	2.109	59	101895	15.713
13) Freon 123a	(1)	2.139	67	168176A	17.959
14) Acrolein	(4)	2.224	56	207915	120.861
15) 1,1-Dichloroethene	(1)	2.316	96	135382	17.966
17) Freon 113	(1)	2.340	101	138495	18.262
16) Acetone	(1)	2.340	43	346988	144.842
18) Methyl Iodide	(1)	2.456	142	226344	18.223
21) Carbon Disulfide	(1)	2.523	76	384392	18.476
22) Allyl Chloride	(1)	2.615	41	193127	15.920
23) Methyl Acetate	(1)	2.627	43	100571	15.739
24) Methylene Chloride	(1)	2.730	84	141237	17.922
25)*t-Butyl Alcohol-d10	(4)	2.755	65	153108	250.000
26) t-Butyl Alcohol	(4)	2.828	59	137350	187.128
27) Acrylonitrile	(1)	2.944	53	278475	77.596
28) trans-1,2-Dichloroethene	(1)	2.974	96	139897	17.836
29) Methyl Tertiary Butyl Ether	(1)	2.980	73	392688	18.135
31) n-Hexane	(1)	3.218	57	219312	18.003
33) 1,1-Dichloroethane	(1)	3.358	63	256024	18.239
34) di-Isopropyl Ether	(1)	3.425	45	431885	18.262
35) 2-Chloro-1,3-Butadiene	(1)	3.444	53	223556	20.470
36) 1,2-Dichloroethene (total)	(1)		96	284757	35.328
37) Ethyl t-Butyl Ether	(1)	3.773	59	404919	18.342
39) cis-1,2-Dichloroethene	(1)	3.913	96	144860	17.492
40) 2-Butanone	(1)	3.919	43	522499	129.987
41) 2,2-Dichloropropane	(1)	3.919	77	187977	17.957
42) Propionitrile	(4)	3.986	54	163589	135.271
44) Methacrylonitrile	(1)	4.126	67	475991	132.135
45) Bromochloromethane	(1)	4.145	128	65505	16.650
46) Tetrahydrofuran	(4)	4.181	71	96216	85.716
47) Chloroform	(1)	4.224	83	223194	17.954
50)$Dibromofluoromethane	(1)	4.376	113	301198	50.644

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL06 0608

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25102.d
Injection date and time: 25-AUG-2010 09:58

Instrument ID: HP15648.i
Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m
Calibration date and time: 25-AUG-2010 11:32

Sublist used: 8260W

Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07

Lab Sample ID: LCDE07

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52) 1,1,1-Trichloroethane	(1)	4.401	97	223494	18.664
53) Cyclohexane	(1)	4.456	56	276504	18.809
55) 1,1-Dichloropropene	(1)	4.559	75	203054	17.946
56) Carbon Tetrachloride	(1)	4.565	117	154994	17.834
58) Isobutyl Alcohol	(4)	4.687	41	111649	449.733
59)$1,2-Dichloroethane-d4	(1)	4.706	102	78345	49.613
63) Benzene	(1)	4.760	78	571387	17.656
65) 1,2-Dichloroethane	(1)	4.779	62	171411	18.508
67) t-Amyl Methyl Ether	(1)	4.882	73	381925	17.827
68) n-Heptane	(1)	5.035	43	214220	17.677
69)*Fluorobenzene	(1)	5.041	96	1330077	50.000
71) n-Butanol	(4)	5.352	56	192393	876.470
72) Trichloroethene	(1)	5.413	95	145764	17.520
74) Methylcyclohexane	(1)	5.608	83	260271	16.890
76) 1,2-Dichloropropane	(1)	5.638	63	146528	17.903
78) Dibromomethane	(1)	5.760	93	81346	17.448
79) Methyl Methacrylate	(1)	5.772	69	103567	15.087
80) 1,4-Dioxane	(4)	5.785	88	34184	481.066
81) Bromodichloromethane	(1)	5.931	83	153316	17.493
82) 2-Nitropropane	(1)	6.169	41	22492	14.605
83) 2-Chloroethyl Vinyl Ether	(1)	6.254	63	94432	16.883
87) cis-1,3-Dichloropropene	(1)	6.400	75	198991	17.119
88) 4-Methyl-2-Pentanone	(1)	6.571	43	733395	82.179
90)$Toluene-d8	(2)	6.681	98	1333573	50.518
91) Toluene	(2)	6.754	92	368833	17.621
92) trans-1,3-Dichloropropene	(2)	7.004	75	182057	17.011
93) Ethyl Methacrylate	(2)	7.120	69	170347	19.244
94) 1,1,2-Trichloroethane	(2)	7.193	97	117090	17.324
96) Tetrachloroethene	(2)	7.333	166	164030	16.855
97) 1,3-Dichloropropane	(2)	7.370	76	206022	17.260
98) 2-Hexanone	(2)	7.461	43	515659	87.735
100) Dibromochloromethane	(2)	7.589	129	109335	16.590
101) 1,2-Dibromoethane	(2)	7.693	107	115252	16.768
103)*Chlorobenzene-d5	(2)	8.126	117	954591	50.000
104) Chlorobenzene	(2)	8.150	112	396962	17.520
105) Xylene (Total)	(2)		106	808694	51.870
106) 1,1,1,2-Tetrachloroethane	(2)	8.229	131	112466	16.666
107) Ethylbenzene	(2)	8.254	91	694312	17.312
108) m+p-Xylene	(2)	8.357	106	547471	34.743

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

PTL06 8609

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on 08/26/2010 at 05:58.
Target 3.5 esignature user ID: sas00403

Quant Report

Target Revision 3.5

Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07 Lab Sample ID: LCDE07

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
110) o-Xylene	(2)	8.693	106	261223	17.128
111) Styrene	(2)	8.705	104	417117	17.321
112) Bromoform	(2)	8.851	173	74790	15.478
113) Isopropylbenzene	(2)	8.991	105	701506	17.475
115) Cyclohexanone	(4)	9.058	55	114495	474.825
116)$4-Bromofluorobenzene	(2)	9.107	95	471773	50.376
118) Bromobenzene	(3)	9.223	156	157544	17.095
119) 1,1,2,2-Tetrachloroethane	(3)	9.229	83	169134	16.856
120) 1,2,3-Trichloropropane	(3)	9.260	110	48351	16.335
121) trans-1,4-Dichloro-2-Butene	(3)	9.272	53	248435	82.611
122) n-Propylbenzene	(3)	9.308	91	840576	17.799
123) 2-Chlorotoluene	(3)	9.375	126	162184	17.222
124) 1,3,5-Trimethylbenzene	(3)	9.442	105	562878	17.451
125) 4-Chlorotoluene	(3)	9.455	126	164883	17.277
127) tert-Butylbenzene	(3)	9.686	134	136882	17.059
128) Pentachloroethane	(3)	9.699	167	83448	17.378
130) 1,2,4-Trimethylbenzene	(3)	9.723	105	576191	17.231
132) sec-Butylbenzene	(3)	9.845	105	740701	17.478
133) 1,3-Dichlorobenzene	(3)	9.924	146	309143	17.323
134) p-Isopropyltoluene	(3)	9.948	119	632415	17.164
135)*1,4-Dichlorobenzene-d4	(3)	9.967	152	520674	50.000
136) 1,4-Dichlorobenzene	(3)	9.985	146	313010	17.338
137) 1,2,3-Trimethylbenzene	(3)	10.022	105	577683	17.638
138) Benzyl Chloride	(3)	10.083	91	254639	15.610
139) 1,3-Diethylbenzene	(3)	10.162	105	372118	17.510
140) 1,4-Diethylbenzene	(3)	10.217	105	340789MA	17.244
141) n-Butylbenzene	(3)	10.235	92	313336	16.994
142) 1,2-Dichlorobenzene	(3)	10.247	146	295681	17.320
143) 1,2-Diethylbenzene	(3)	10.302	105	345388MA	17.432
145) 1,2-Dibromo-3-Chloropropane	(3)	10.778	75	29912	16.659
146) 1,2,4-Trichlorobenzene	(3)	11.326	180	205667	16.549
147) Hexachlorobutadiene	(3)	11.430	225	92087	15.922
148) Naphthalene	(3)	11.485	128	581267	16.223
149) 1,2,3-Trichlorobenzene	(3)	11.637	180	194800	16.892
152) 2-Methylnaphthalene	(3)	12.198	142	313375	16.555

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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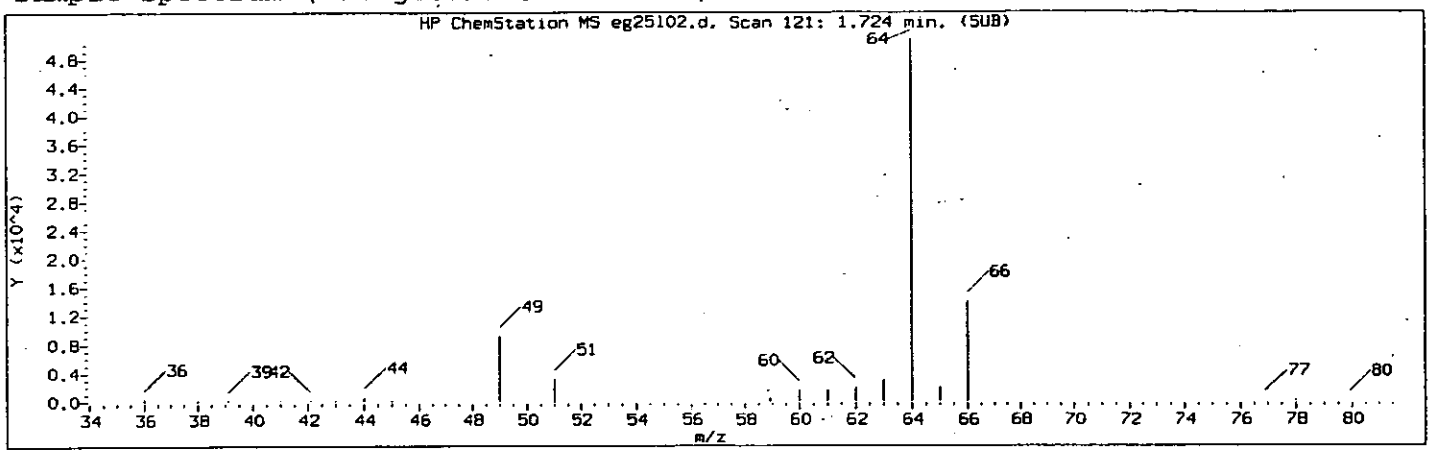
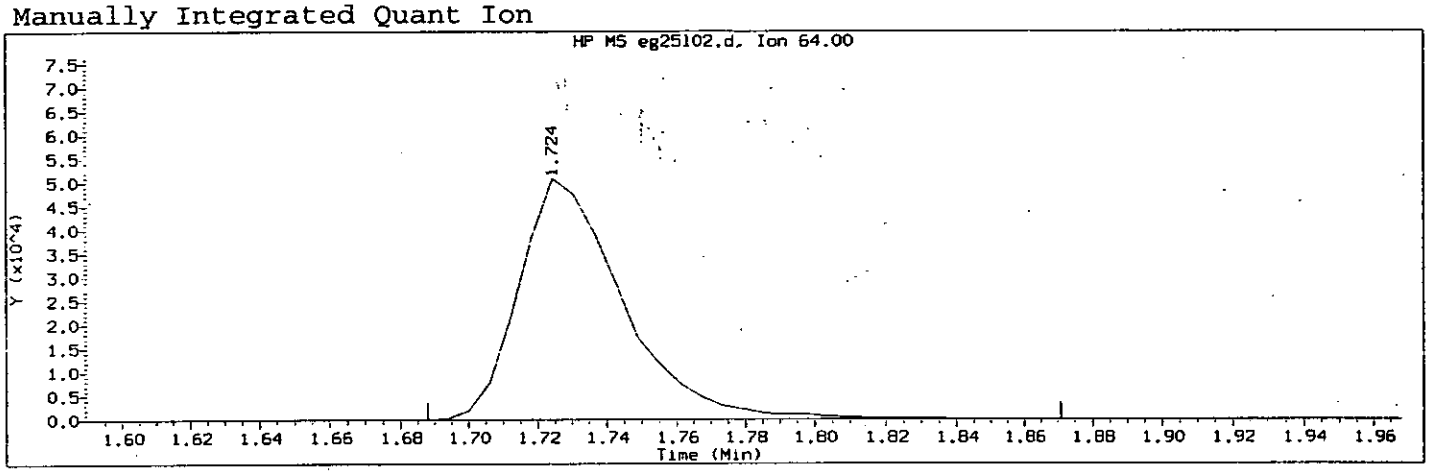
on 08/26/2010 at 05:58.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648:i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number	: 6		
Compound Name	: Chloroethane		
Scan Number	: 121		
Retention Time (minutes)	: 1.724		
Quant Ion	: 64.00		
Area (flag)	: 106015M		
On-Column Amount (ng)	: 15.5570		
Integration start scan	: 114	Integration stop scan:	144
Y at integration start	: 0	Y at integration end:	0

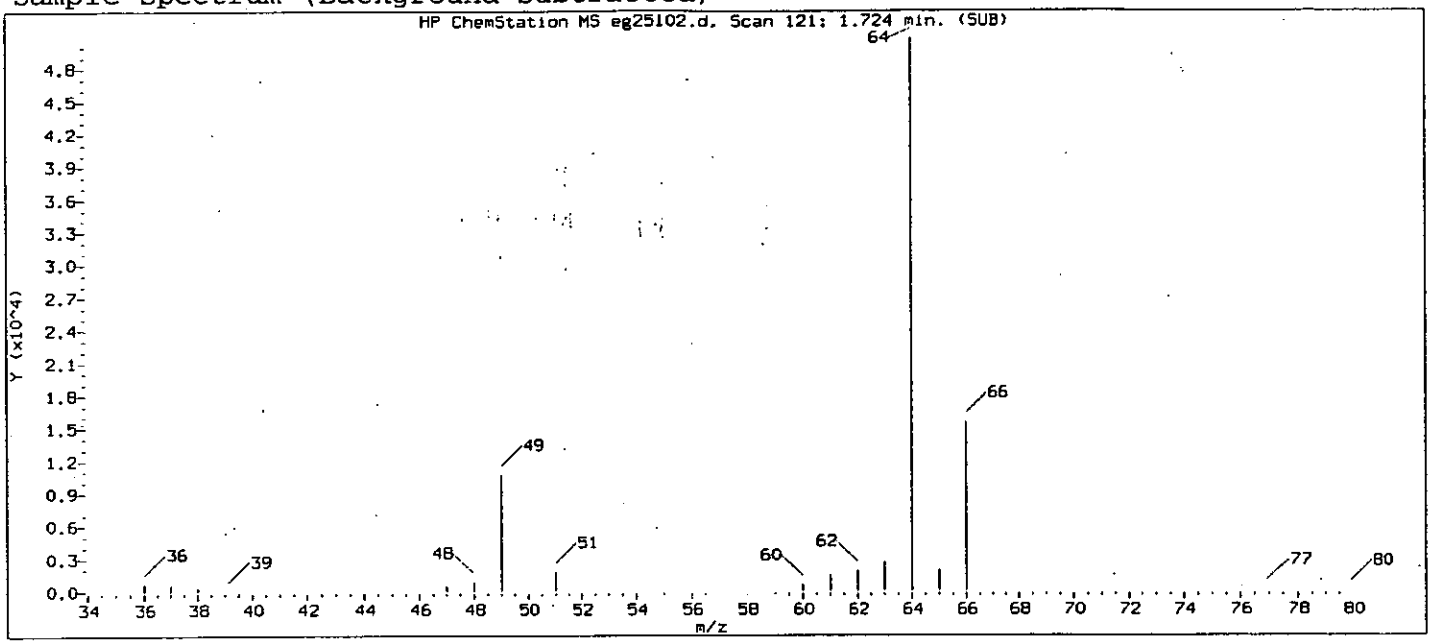
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58. Target 3.5 esignature user ID: sas00403

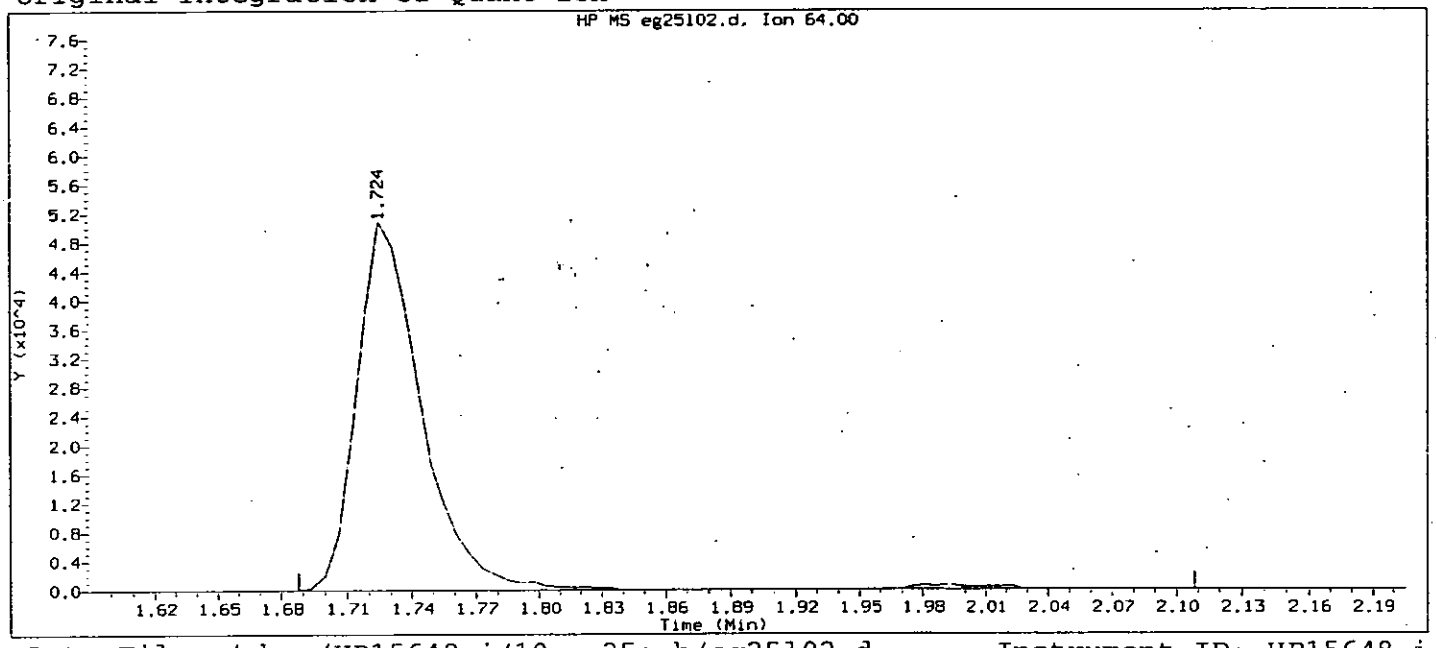
PTL86 8611

GC/MS audit/management approval: HB1886 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 10:15 Automation

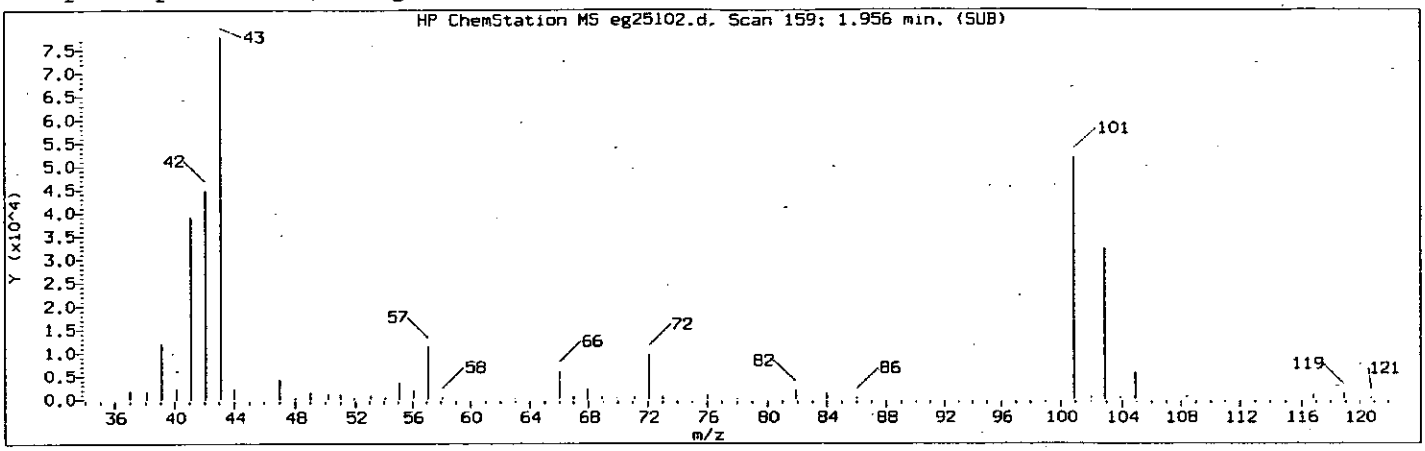
Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number : 6
Compound Name : Chloroethane
Scan Number : 121
Retention Time (minutes): 1.724
Quant Ion : 64.00
Area : 107521
On-column Amount (ng) : 15.7781
Integration start scan : 114 Integration stop scan: 183
Y at integration start : 0 Y at integration end: 0

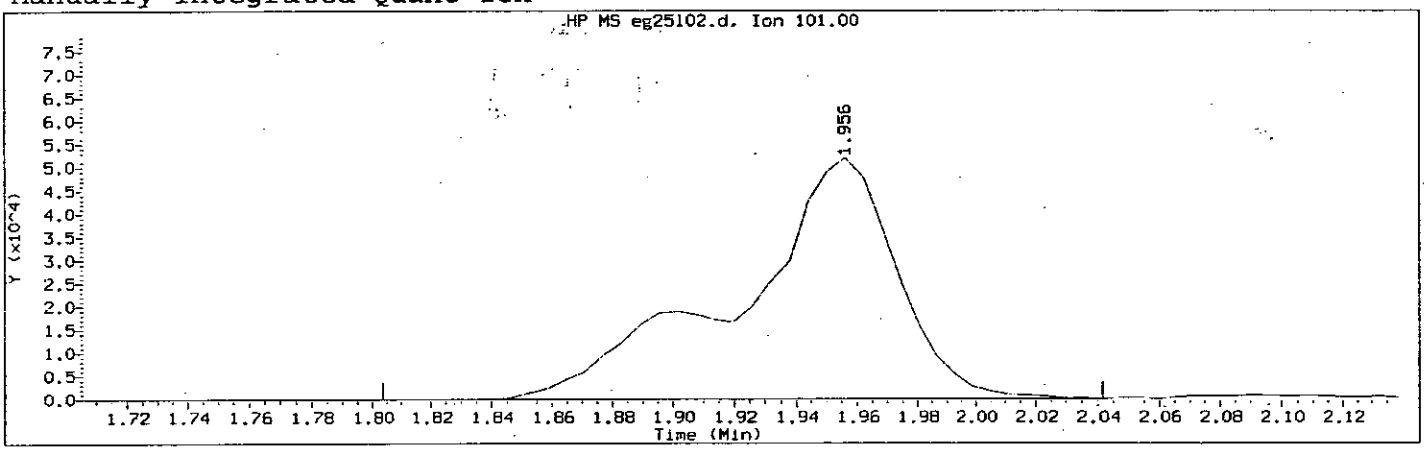
PTL86 8612

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number	: 8		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 159		
Retention Time (minutes)	: 1.956		
Quant Ion	: 101.00		
Area (flag)	: 185740M		
On-Column Amount (ng)	: 14.7085		
Integration start scan	: 133	Integration stop scan:	172
Y at integration start	: 0	Y at integration end:	0

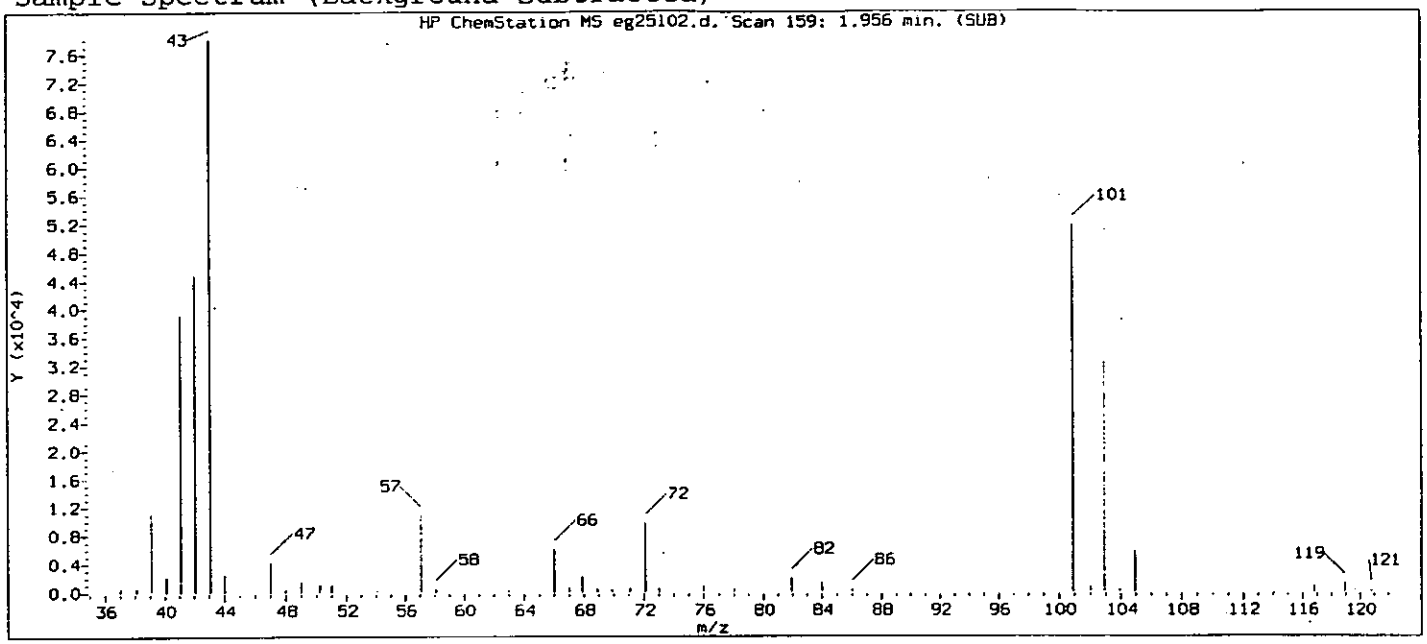
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58. Target 3.5 esignature user ID: sas00403

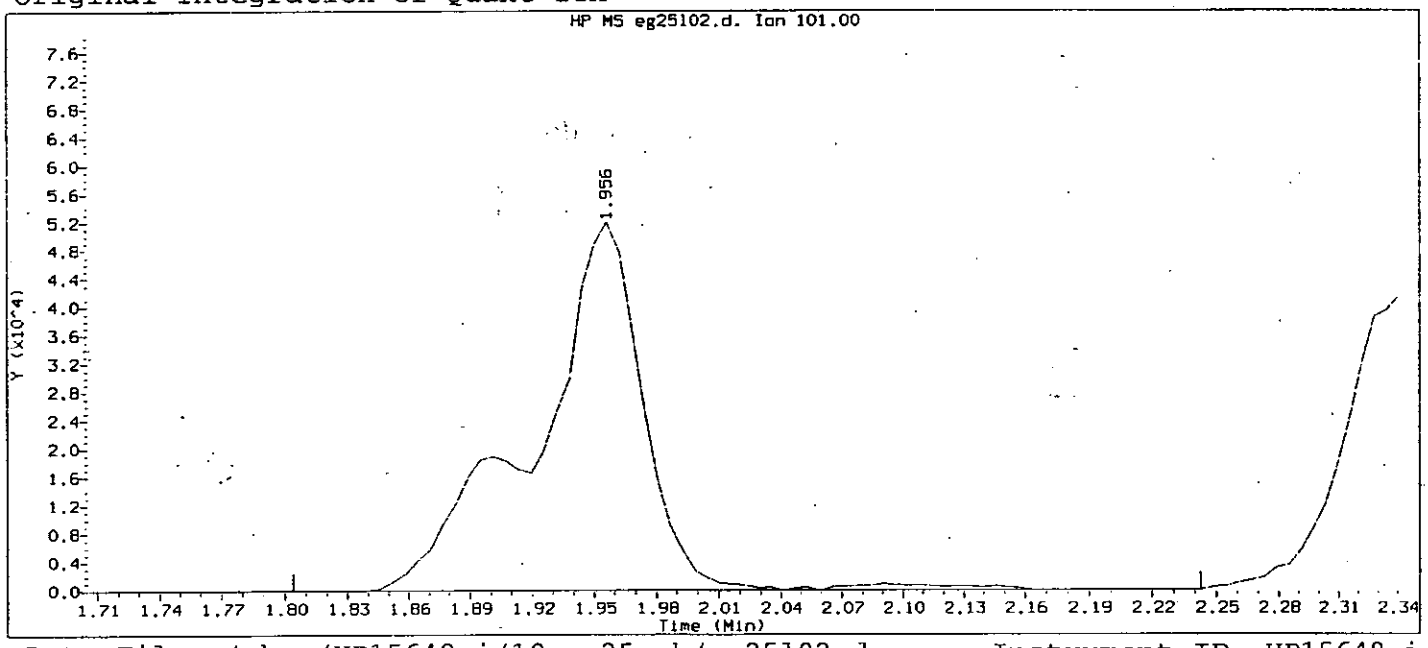
PTL86 8613

GC/MS audit/management approval: MB1986 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 10:15 Automation

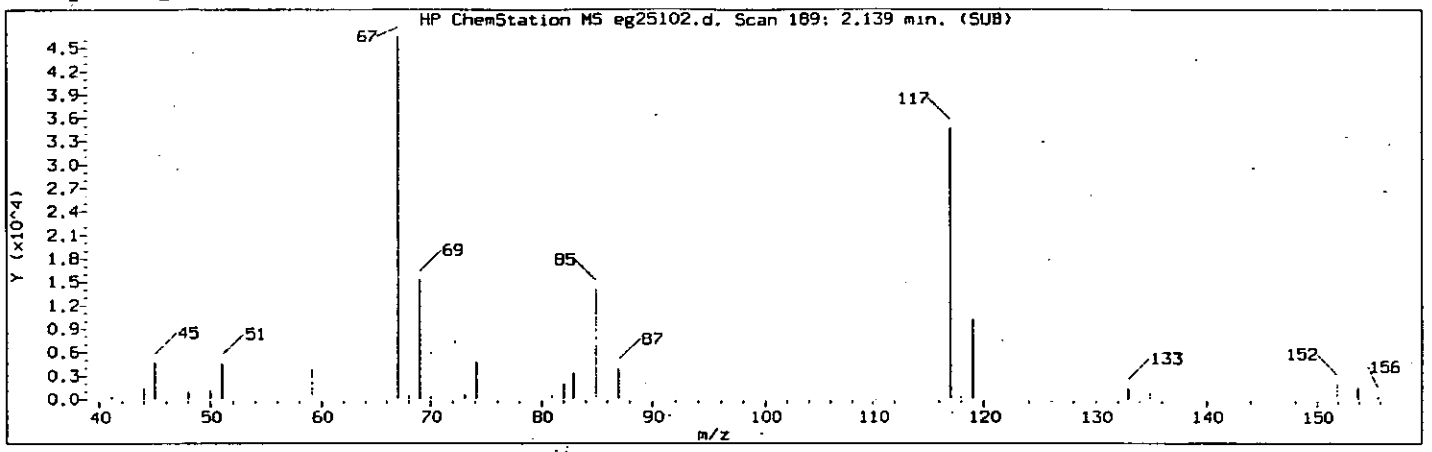
Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number : 8
Compound Name : Trichlorofluoromethane
Scan Number : 159
Retention Time (minutes): 1.956
Quant Ion : 101.00
Area : 189446
On-column Amount (ng) : 15.0020
Integration start scan : 133 Integration stop scan: 205
Y at integration start : 0 Y at integration end: 0

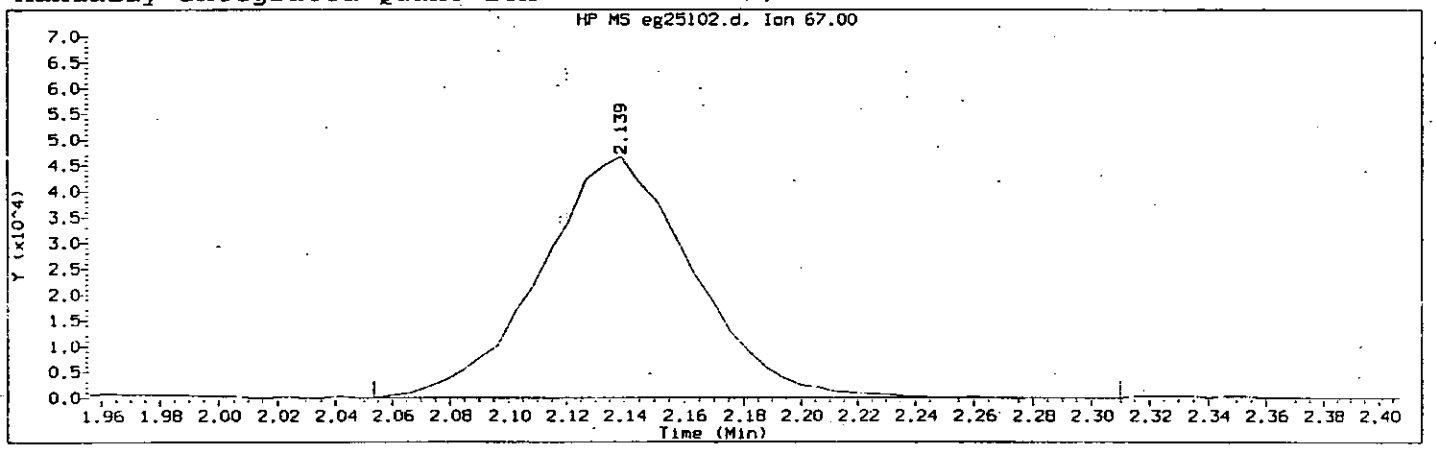
PTL06 0614

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number : 13
Compound Name : Freon 123a
Scan Number : 189
Retention Time (minutes): 2.139
Quant Ion : 67.00
Area (flag) : 168176A
On-Column Amount (ng) : 17.9586
Integration start scan : 174 Integration stop scan: 216
Y at integration start : 0 Y at integration end: 0

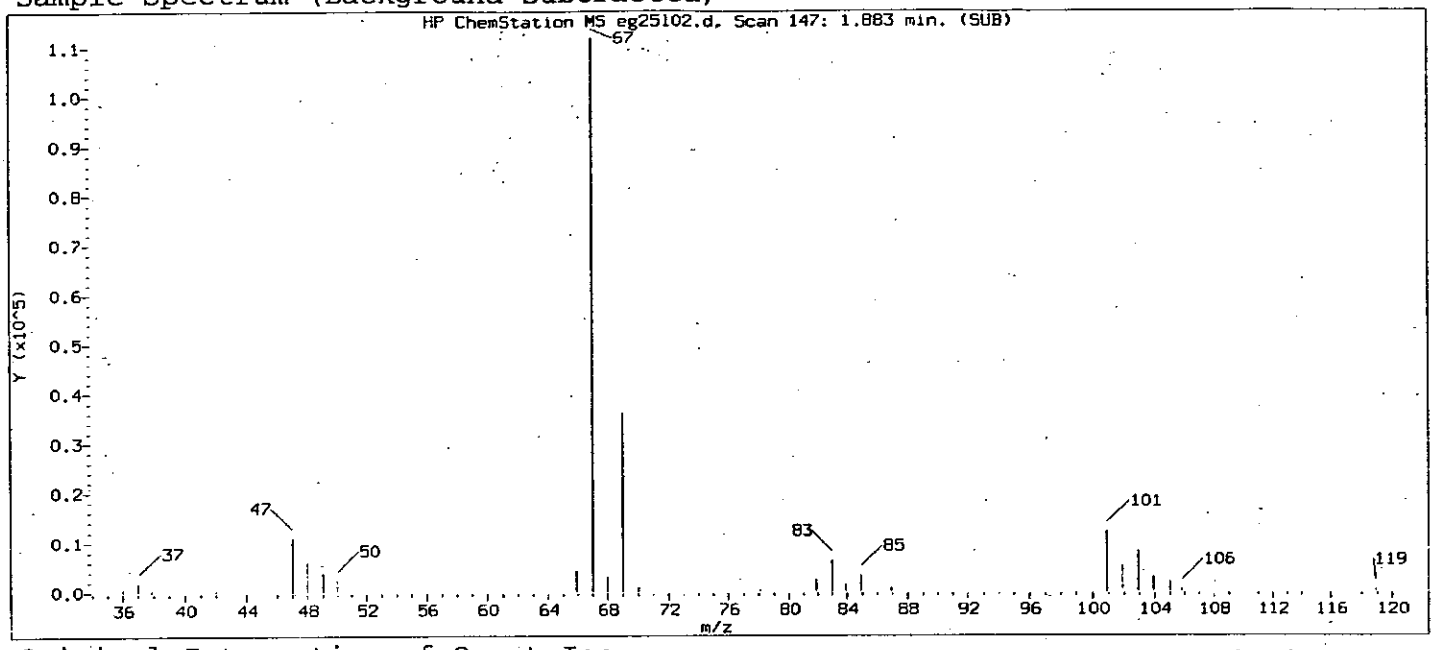
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58. Target 3.5 esignature user ID: sas00403

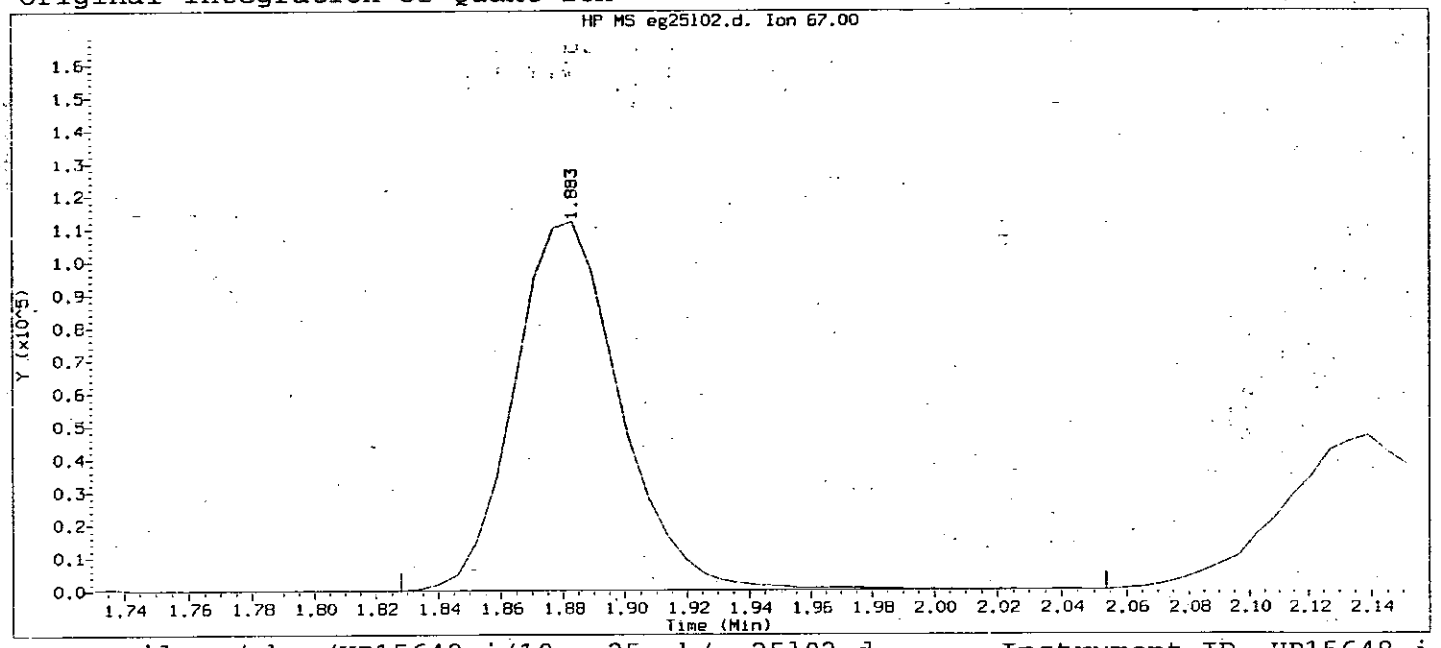
PTL86 8615

GC/MS audit/management approval: MB1996 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 10:15 Automation

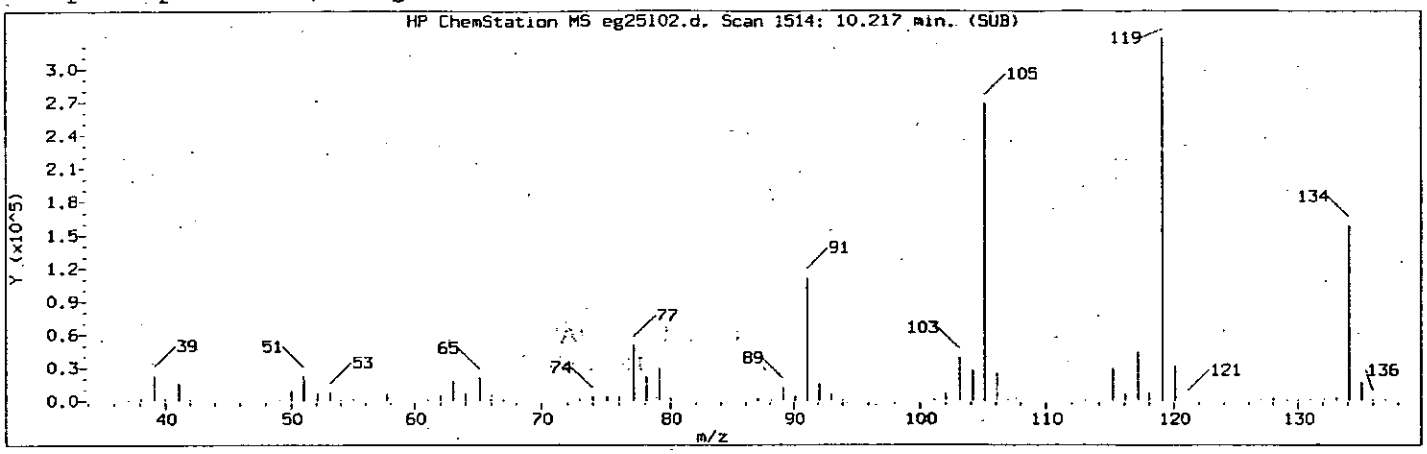
Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number : 13
Compound Name : Freon 123a
Scan Number : 147
Retention Time (minutes): 1.883
Quant Ion : 67.00
Area : 266047
On-column Amount (ng) : 28.4098
Integration start scan : 137 Integration stop scan: 174
Y at integration start : 0 Y at integration end: 0

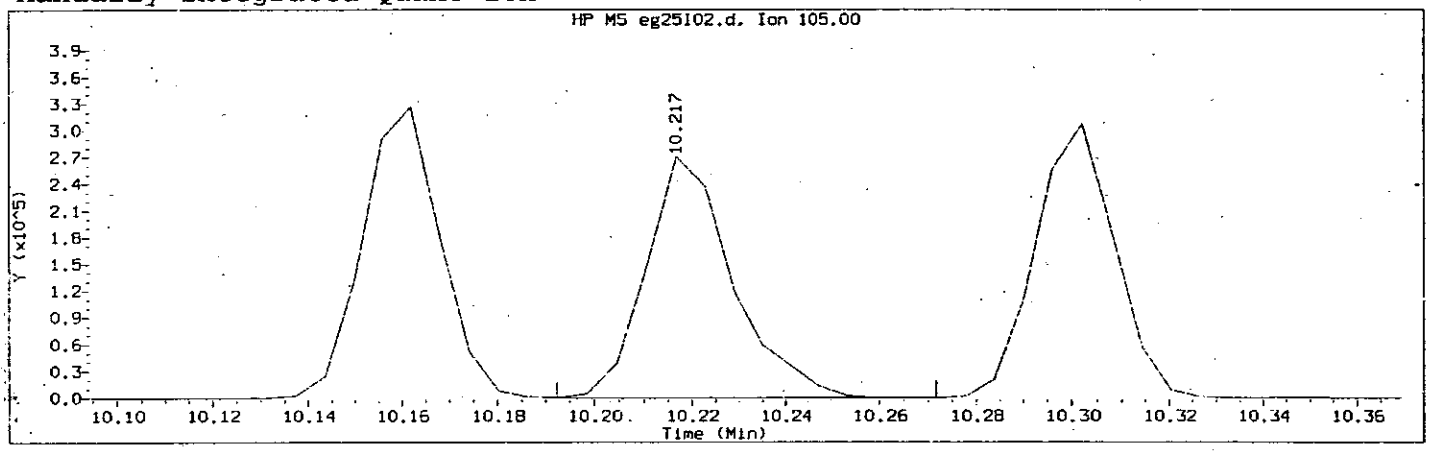
PTL86 8616

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1514
Retention Time (minutes): 10.217
Quant Ion : 105.00
Area (flag) : 340789MA
On-Column Amount (ng) : 17.2443
Integration start scan : 1509 Integration stop scan: 1522
Y at integration start : 0 Y at integration end: 0

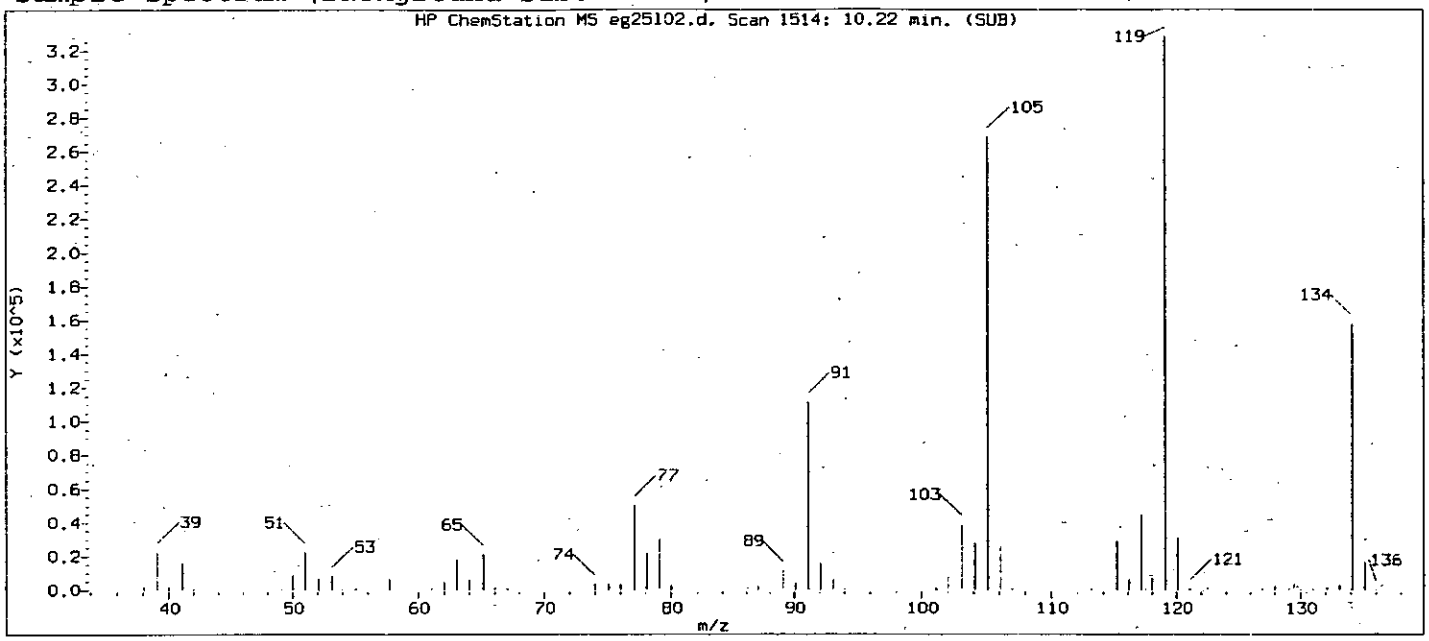
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58. Target 3.5 esignature user ID: sas00403

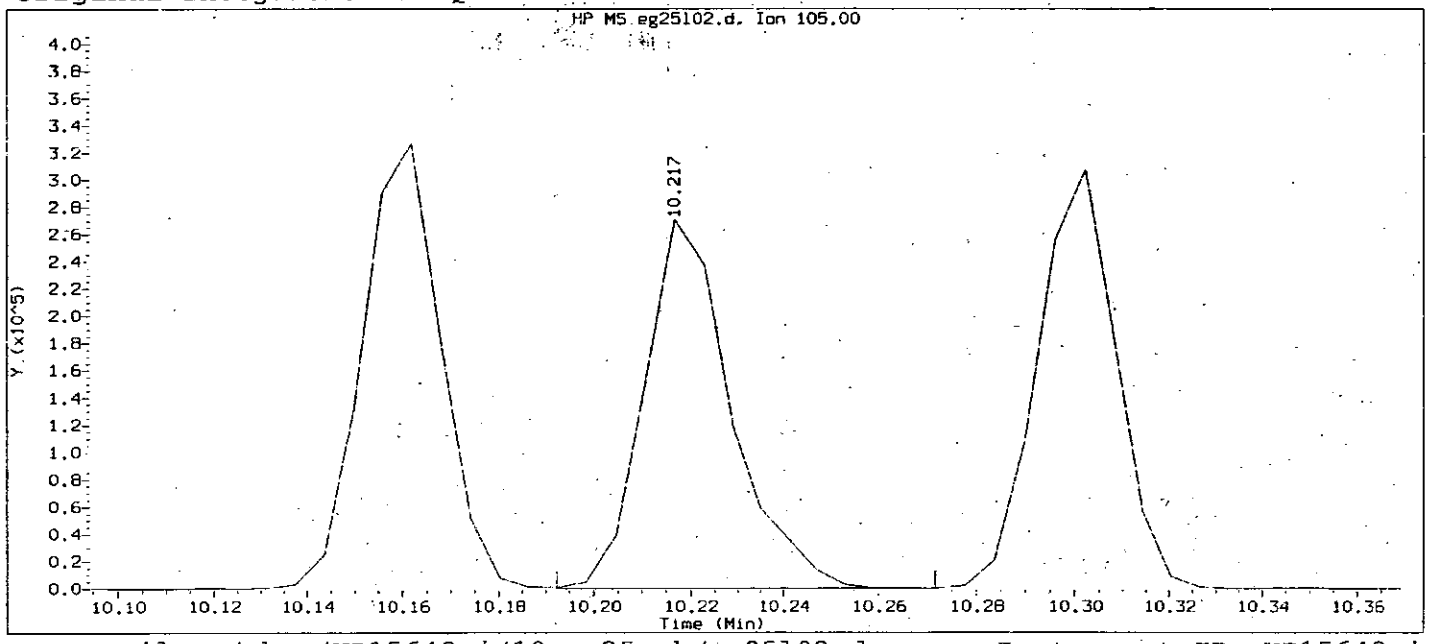
PTL86 8617

GC/MS audit/management approval: MB1986 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 10:15 Automation

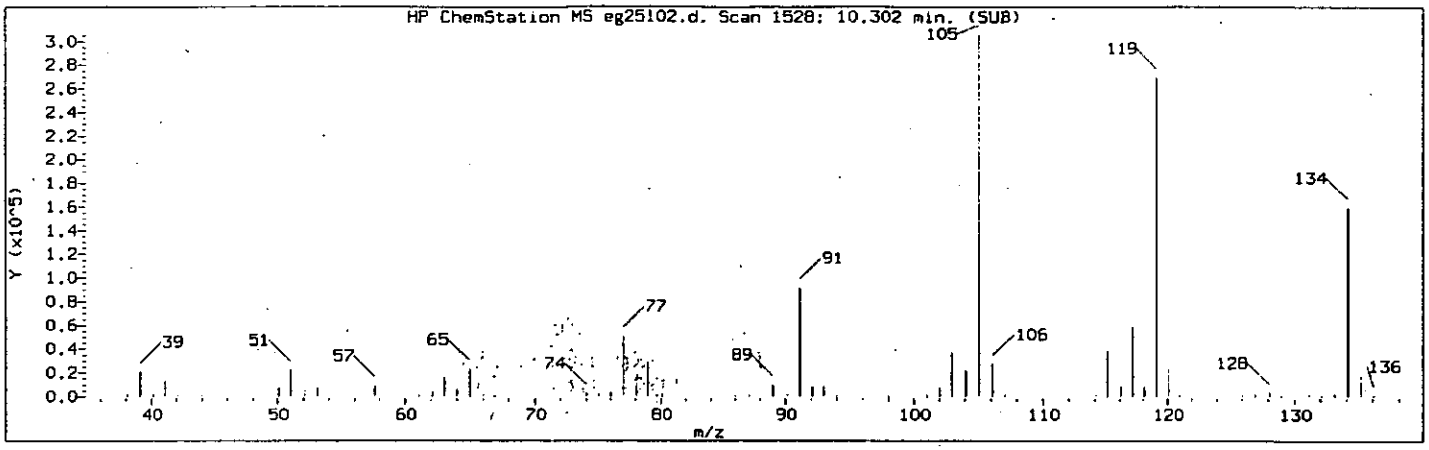
Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number : 140
Compound Name : 1,4-Diethylbenzene
Scan Number : 1514
Retention Time (minutes): 10.217
Quant Ion : 105.00
Area : 340627
On-column Amount (ng) : 17.2361
Integration start scan : 1509 Integration stop scan: 1522
Y at integration start : 0 Y at integration end: 0

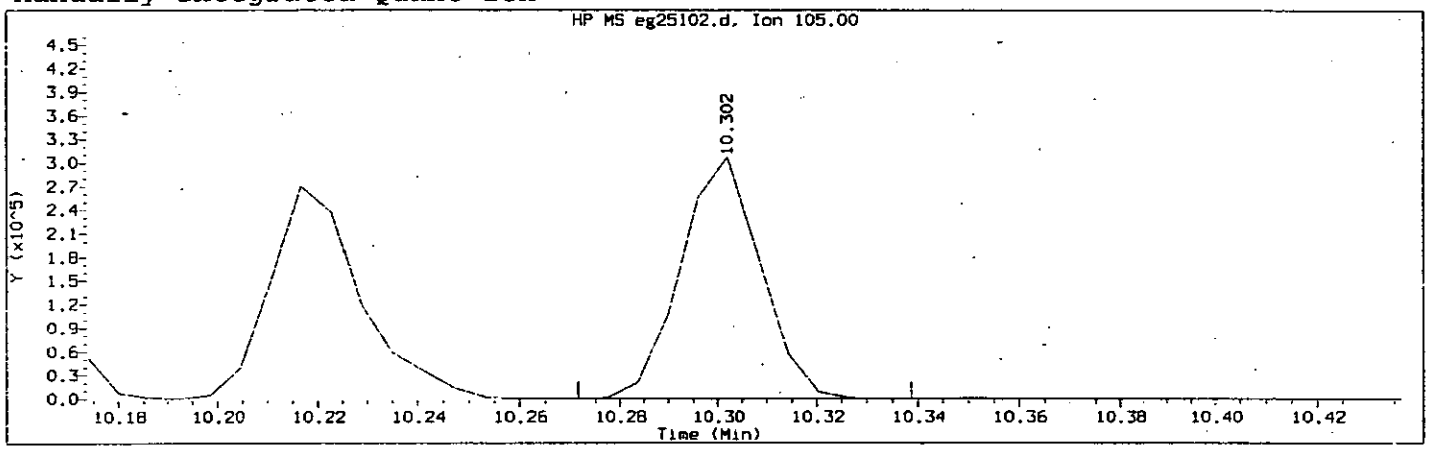
PTL06 8618

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58.
Target 3.5 esignature user ID: sas00403

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 11:32
Date, time and analyst ID of latest file update: 26-Aug-2010 05:55 sas00403

Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number	:	143
Compound Name	:	1,2-Diethylbenzene
Scan Number	:	1528
Retention Time (minutes)	:	10.302
Quant Ion	:	105.00
Area (flag)	:	345388MA
On-Column Amount (ng)	:	17.4325
Integration start scan	:	1522 Integration stop scan: 1533
Y at integration start	:	0 Y at integration end: 0

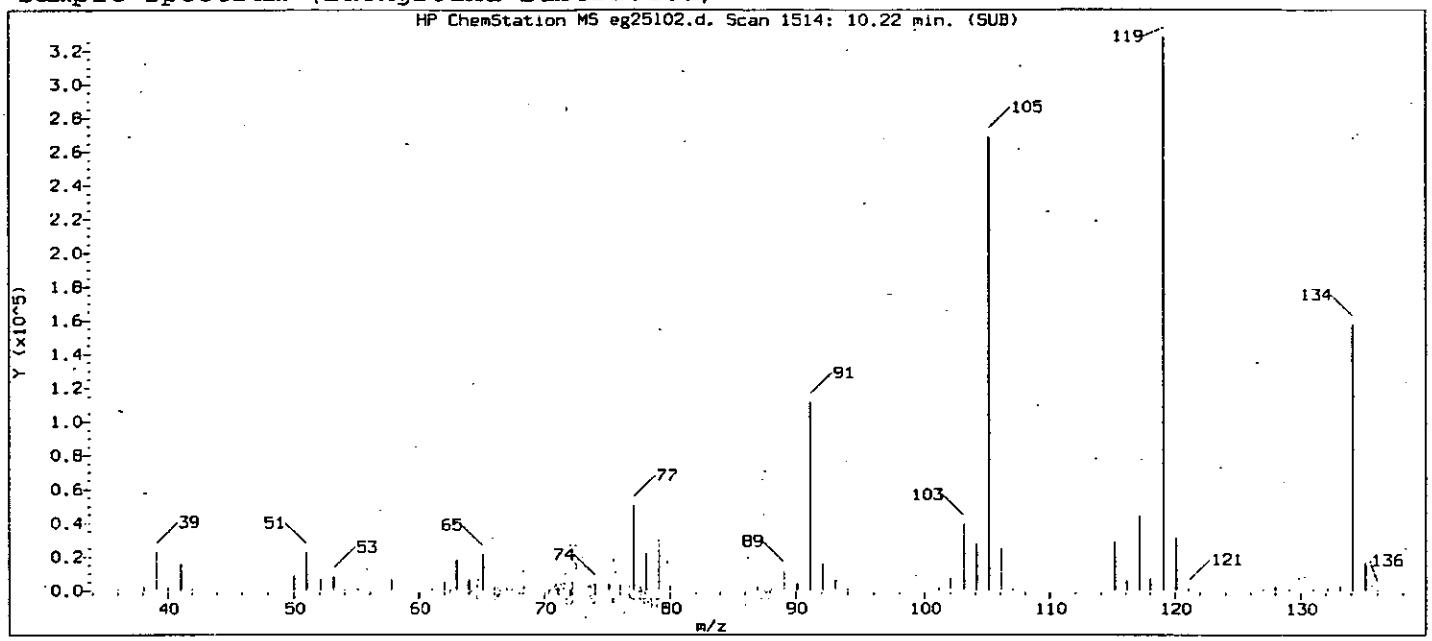
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58. Target 3.5 esignature user ID: sas00403

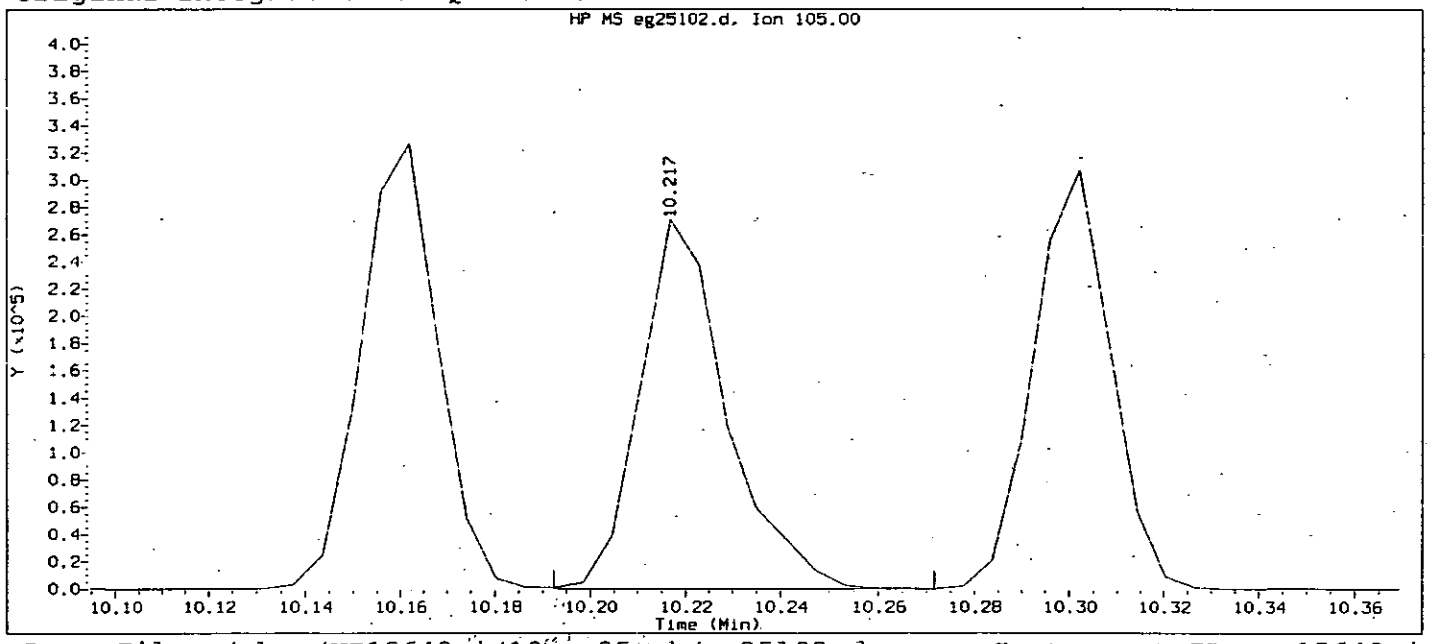
PTL06 0619

GC/MS audit/management approval: MB 8/26/10

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP15648.i/10aug25a.b/eg25102.d Instrument ID: HP15648.i
Injection date and time: 25-AUG-2010 09:58 Analyst ID: JML01693

Method used: /chem/HP15648.i/10aug25a.b/E8260W.m Sublist used: 8260W
Calibration date and time: 25-AUG-2010 09:30
Date, time and analyst ID of latest file update: 25-Aug-2010 10:15 Automation

Sample Name: LCDE07 Lab Sample ID: LCDE07

Compound Number : 143
Compound Name : 1,2-Diethylbenzene
Scan Number : 1514
Retention Time (minutes): 10.217
Quant Ion : 105.00
Area : 340627
On-column Amount (ng) : 17.1922
Integration start scan : 1509 Integration stop scan: 1522
Y at integration start : 0 Y at integration end: 0

PTL86 0658

Digitally signed by Stephanie A. Selis on 08/26/2010 at 05:58.
Target 3.5 esignature user ID: sas00403

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

GC/MS Volatiles pH Log

Batch # : E102362AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
6061430	<2	8/25/2010	JML 1693	38A
6061440	<2	8/25/2010	JML 1693	38A
6061441	<2	8/25/2010	JML 1693	38A
6061442	<2	8/25/2010	JML 1693	38A
6061443	<2	8/25/2010	JML 1693	38A
6061444	<2	8/25/2010	JML 1693	38A
6061445	<2	8/25/2010	JML 1693	38A
6061432	<2	8/25/2010	JML 1693	38A
6061433	<2	8/25/2010	JML 1693	38A
6061434	<2	8/25/2010	JML 1693	38A
6061435	<2	8/25/2010	JML 1693	38A
6061436	<2	8/25/2010	JML 1693	38A
6061437	<2	8/25/2010	JML 1693	38A
6061438	<2	8/25/2010	JML 1693	38A
6061439	<2	8/25/2010	JML 1693	38A
6061431	<2	8/25/2010	JML 1693	38A
6061433	<2	8/25/2010	JML 1693	38B

PTL06 0621

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GC/MS Volatiles pH Log

Batch # : E102371AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
6061439	<2	8/25/2010	JML 1693	38B
6059086	<2	8/25/2010	JML 1693	38B
6059087	<2	8/25/2010	JML 1693	38B
6059088	<2	8/25/2010	JML 1693	38B

PTE86 8622

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP15648 **HP #27**

** Shift #1 Analyst: JML ** Shift #2 Analyst: SEJ ** Shift #3 Analyst: _____ *

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:

* 8260 WATERS *

Data Directory Path is - d:\data\10AUG19A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
EG19T01.D	50ng BFB	BFB MAY12-10	19 Aug 2010	14:18			MR
EG19X01.D	BLK	BLK	19 Aug 2010	14:25			NU
EG19I02.D	VSTD300	VSTD300	19 Aug 2010	14:47			MR
EG19I03.D	VSTD100	VSTD100	19 Aug 2010	15:07			MR
EG19I04.D	VSTD050	VSTD050	19 Aug 2010	15:27			MR
EG19I05.D	VSTD020	VSTD020	19 Aug 2010	15:47			MR
EG19I06.D	VSTD010	VSTD010	19 Aug 2010	16:07			MR
EG19I07.D	VSTD004	VSTD004	19 Aug 2010	16:27			MR
EG19M01.D	MDL001	MDL001	19 Aug 2010	16:47			MR
EG19CV1.D	ICVE00	ICVE00	19 Aug 2010	17:07			MR

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP15648 **HP #27**

** Shift #1 Analyst:___JML_____** Shift #2 Analyst:__SEJ_____** Shift #3 Analyst:_____*

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:

_____8260 WATERS_____

_____

_____

_____

Data Directory Path is - d:\data\10AUG24B\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
EG24T02.D	50ng BFB	BFB MAY12-10	24 Aug 2010	15:39			MR
EG24X51.D	BLK	BLK	24 Aug 2010	15:51			NU
EG24C51.D	VSTD050	VSTD050	24 Aug 2010	16:10			MR
EG24B51.D	VBLKE06	VBLKE06	24 Aug 2010	16:29	E102362AA		MR
EG24L51.D	LCSE06	LCSE06	24 Aug 2010	16:49	E102362AA		MR
EG24X52.D	BLK	BLK	24 Aug 2010	17:28			NU
EG24S51.D	XXXXX	6061430	24 Aug 2010	17:48	E102362AA		MR
EG24S52.D	XXXXX	6058076	24 Aug 2010	18:08	E102362AA		MR
EG24S53.D	XXXXX	6058077	24 Aug 2010	18:28	E102362AA		MR
EG24S54.D	XXXXX	6058078	24 Aug 2010	18:48	E102362AA		MR
EG24S55.D	XXXXX	6061440	24 Aug 2010	19:08	E102362AA		MR
EG24S56.D	XXXXXMS	6061441MS	24 Aug 2010	19:28	E102362AA		MR
EG24S57.D	XXXXXMSD	6061442MSD	24 Aug 2010	19:48	E102362AA		MR
EG24S58.D	XXXXX	6061443	24 Aug 2010	20:08	E102362AA		F
EG24S59.D	XXXXX	6061444	24 Aug 2010	20:28	E102362AA		MR
EG24S60.D	XXXXX	6061445	24 Aug 2010	20:48	E102362AA		MR
EG24S61.D	XXXXX	6061432	24 Aug 2010	21:08	E102362AA		MR
EG24S62.D	XXXXX	6061433	24 Aug 2010	21:28	E102362AA		MR
EG24S63.D	XXXXX	6061434	24 Aug 2010	21:48	E102362AA		MR
EG24S64.D	XXXXX	6061435	24 Aug 2010	22:08	E102362AA		MR
EG24S65.D	XXXXX	6061436	24 Aug 2010	22:28	E102362AA		MR
EG24S66.D	XXXXX	6061437	24 Aug 2010	22:48	E102362AA		MR
EG24S67.D	XXXXX	6061438	24 Aug 2010	23:08	E102362AA		MR
EG24S68.D	XXXXX	6061439	24 Aug 2010	23:28	E102362AA		F
EG24S69.D	XXXXX	6059880	24 Aug 2010	23:48	E102362AA		MR
EG24S70.D	XXXXX	6059881	25 Aug 2010	00:08	E102362AA		MR
EG24S71.D	XXXXX	6061431	25 Aug 2010	00:28	E102362AA		MR
EG24S72.D	XXXXX	6059882	25 Aug 2010	00:48	E102362AA	50	F
EG24S73.D	XXXXXDL	6059882DL	25 Aug 2010	01:08	E102362AA	500	MR
EG24S74.D	XXXXXDL	6061443DL	25 Aug 2010	01:28	E102362AA	10	MR

PTL 8623

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP15648 **HP #27**

** Shift #1 Analyst: JML ** Shift #2 Analyst: SEJ ** Shift #3 Analyst: _____ *

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:

8260_5ML_WATERS

Data Directory Path is - d:\data\10AUG25A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
EG25T01.D	50ng BFB	BFB MAY12-10	25 Aug 2010	08:27			MR
EG25X01.D	BLK	BLK	25 Aug 2010	08:38			NU
EG25C01.D	VSTD050	VSTD050	25 Aug 2010	08:58			MR
EG25B01.D	VBLKE07	VBLKE07	25 Aug 2010	09:18	E102371AA		MR
EG25L01.D	LCSE07	LCSE07	25 Aug 2010	09:38	E102371AA		MR
EG25L02.D	LCDE07	LCDE07	25 Aug 2010	09:58	E102371AA		MR
EG25X02.D	BLK	BLK	25 Aug 2010	10:23			NU
EG25S01.D	XXXXX	6059883	25 Aug 2010	10:55	E102371AA		MR
EG25S02.D	XXXXXDL	6061439DL	25 Aug 2010	11:15	E102371AA	10	MR
EG25S03.D	XXXXX	6061608	25 Aug 2010	11:35	E102371AA		MR
EG25S04.D	XXXXX	6061609	25 Aug 2010	11:55	E102371AA		MR
EG25S05.D	XXXXX	6061820	25 Aug 2010	12:16	E102371AA		MR
EG25S06.D	XXXXXMS	6061820MS	25 Aug 2010	12:35	E102371AA		MR
EG25S07.D	XXXXX	6061821	25 Aug 2010	12:55	E102371AA		MR
EG25S08.D	XXXXX	6061822	25 Aug 2010	13:15	E102371AA		MR
EG25S09.D	XXXXX	6061823	25 Aug 2010	13:35	E102371AA		MR
EG25S10.D	XXXXX	6061824	25 Aug 2010	13:55	E102371AA		MR
EG25S11.D	XXXXX	6061825	25 Aug 2010	14:15	E102371AA		MR
EG25S12.D	XXXXX	6061826	25 Aug 2010	14:35	E102371AA		MR
EG25S13.D	XXXXX	6061827	25 Aug 2010	14:55	E102371AA		MR
EG25S14.D	XXXXX	6061828	25 Aug 2010	15:15	E102371AA		MR
EG25S15.D	XXXXX	6061829	25 Aug 2010	15:35	E102371AA		MR
EG25S16.D	XXXXX	6061830	25 Aug 2010	15:55	E102371AA		MR
EG25S17.D	XXXXX	6061831	25 Aug 2010	16:15	E102371AA		MR
EG25S18.D	XXXXX	6061832	25 Aug 2010	16:35	E102371AA		MR
EG25S19.D	XXXXX	6059086	25 Aug 2010	16:55	E102371AA	100	MR
EG25S20.D	XXXXX	6059087	25 Aug 2010	17:15	E102371AA	100	MR
EG25S21.D	XXXXX	6059088	25 Aug 2010	17:35	E102371AA	100	MR

PTL06 0625

YES NO N/A

I. PACKAGE COMPLETENESS AND DELIVERABLES

CASE NUMBER: PTL06 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

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1.3.1

- One trip blank was broken.
- Two samples were not on the COC, but analyses were confirmed by telephone conversation.

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 Laboratory Control Sample(Form III/Equivalent)

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] ___ ___

4.5

- The LCS percent recovery (%R) for 1,2-dibromo-3-chloropropane (124%) was above the quality control limits (66-120%). Because this compound was not detected in the investigative samples, qualifiers were not necessary.

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.])

		YES	NO	N/A
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

	YES	NO	N/A
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)

	YES	NO	N/A
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	[X]	___	___
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").

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.

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.

1,1-Dichloroethene
Chloroform
1,2-Dichloropropane
Toluene
Ethylbenzene
Vinyl chloride

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.

15.4

- The following %Ds were greater than 20% for the continuing calibration performed on 8/24/10 (16:10). Only target compounds are listed.
    - Acetone – 37%
    - 2-Butanone – 38%
    - 4-Methyl-2-pentanone – 31%
    - 2-Hexanone – 47%
    - 1,2-Dibromo-3-chloropropane – 25%

- The following %Ds were greater than 20% for the continuing calibration performed on 8/24/10 (08:58). Only target compounds are listed.
    - Acetone – 21%
    - 2-Butanone – 23%
    - 2-Hexanone – 24%

- The results for these compounds should be considered estimated (J).

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP15648 Calibration Date: 08/24/10 Time: 16:10

Lab File ID: eg24c51.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4396	0.4265	48.51	50	-3	
#	Chloromethane	0.4484	0.4475	49.90	50	0	#
*	Vinyl Chloride	0.4335	0.4319	49.81	50	0	*
	Bromomethane	0.2745	0.2661	48.47	50	-3	
	Chloroethane	0.2562	0.2549	49.76	50	0	
	Trichlorofluoromethane	0.4747	0.4604	48.50	50	-3	
	Ethyl Ether	0.2438	0.2300	47.17	50	-6	
	Acrolein	2.8089	2.8929	514.95	500	3	
*	1,1-Dichloroethene	0.2833	0.2815	49.69	50	-1	*
	Freon 113	0.2851	0.2976	52.20	50	4	
	Acetone	0.0900	0.1230	136.62	100	37	
	Methyl Iodide	0.4669	0.4654	49.84	50	0	
	Carbon Disulfide	0.7821	0.8069	51.58	50	3	
	Allyl Chloride	0.4560	0.4455	48.85	50	-2	
	Methyl Acetate	0.2402	0.2703	56.26	50	13	
	Methylene Chloride	0.2962	0.2765	46.66	50	-7	
	t-Butyl Alcohol	1.1985	1.2828	267.59	250	7	
	Acrylonitrile	0.1349	0.1651	61.19	50	22	
	trans-1,2-Dichloroethene	0.2948	0.2953	50.08	50	0	
	Methyl Tertiary Butyl Ether	0.8140	0.8309	51.04	50	2	
	n-Hexane	0.4579	0.4707	51.39	50	3	
	1,2-Dichloroethene (total)	0.3031	0.3007	99.23	100	-1	
#	1,1-Dichloroethane	0.5277	0.5301	50.23	50	0	#
	di-Isopropyl Ether	0.8890	0.8947	50.32	50	1	
	2-Chloro-1,3-Butadiene	0.4105	0.4310	52.49	50	5	
	Ethyl t-Butyl Ether	0.8299	0.8330	50.19	50	0	
	cis-1,2-Dichloroethene	0.3113	0.3061	49.15	50	-2	
	2-Butanone	0.1511	0.2089	138.25	100	38	
	2,2-Dichloropropane	0.3935	0.4054	51.51	50	3	
	Propionitrile	1.9747	1.9657	248.86	250	0	
	Methacrylonitrile	0.1429	0.1626	149.41	125	20	
	Bromochloromethane	0.1479	0.1353	45.76	50	-8	
	Tetrahydrofuran	1.8328	1.8862	102.91	100	3	
*	Chloroform	0.4673	0.4632	49.56	50	-1	*
	1,1,1-Trichloroethane	0.4501	0.4354	48.37	50	-3	
	Cyclohexane	0.5526	0.5841	52.85	50	6	

PTL06 0480

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: HP15648 Calibration Date: 08/24/10 Time: 16:10

Lab File ID: eg24c51.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	1,1-Dichloropropene	0.4254	0.4345	51.07	50	2	
	Carbon Tetrachloride	0.3267	0.3331	50.98	50	2	
	Isobutyl Alcohol	0.4054	0.4092	630.88	625	1	
	Benzene	1.2165	1.2076	49.63	50	-1	
	1,2-Dichloroethane	0.3482	0.3499	50.24	50	0	
	t-Amyl Methyl Ether	0.8054	0.8128	50.46	50	1	
	n-Heptane	0.4556	0.4559	50.03	50	0	
	n-Butanol	0.3584	0.3351	1168.51	1250	-7	
	Trichloroethene	0.3128	0.3103	49.61	50	-1	
*	1,2-Dichloropropane	0.3077	0.3004	48.82	50	-2	*
	Methylcyclohexane	0.5793	0.5839	50.40	50	1	
	Methyl Methacrylate	0.2580	0.2782	53.89	50	8	
	Dibromomethane	0.1752	0.1713	48.87	50	-2	
	1,4-Dioxane	0.1160	0.0997	537.13	625	-14	
	Bromodichloromethane	0.3295	0.3195	48.49	50	-3	
	2-Nitropropane	0.0633	0.0711	119.93	100	20	
	2-Chloroethyl Vinyl Ether	0.2103	0.2170	51.61	50	3	
	cis-1,3-Dichloropropene	0.4370	0.4085	46.75	50	-7	
	4-Methyl-2-Pentanone	0.3355	0.4407	131.35	100	31	
*	Toluene	1.0963	1.0988	50.11	50	0	*
	trans-1,3-Dichloropropene	0.5606	0.5390	48.07	50	-4	
	Ethyl Methacrylate	0.4637	0.4956	53.44	50	7	
	1,1,2-Trichloroethane	0.3540	0.3524	49.78	50	0	
	Tetrachloroethene	0.5097	0.4968	48.73	50	-3	
	1,3-Dichloropropane	0.6252	0.6164	49.30	50	-1	
	2-Hexanone	0.3308	0.4599	146.79	100	47	
	Dibromochloromethane	0.3452	0.3341	48.39	50	-3	
	1,2-Dibromoethane	0.3600	0.3592	49.89	50	0	
#	Chlorobenzene	1.1868	1.1760	49.54	50	-1	#
	1,1,1,2-Tetrachloroethane	0.3535	0.3518	49.77	50	0	
*	Ethylbenzene	2.1007	2.1344	50.80	50	2	*
	m+p-Xylene	0.8254	0.8340	101.05	100	1	
	Xylene (Total)	0.8165	0.8241	151.38	150	1	
	o-Xylene	0.7988	0.8041	50.33	50	1	
	Styrene	1.2613	1.2683	50.28	50	1	
#	Bromoform	0.2531	0.2503	49.44	50	-1	#

PTL86 0481

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: HP15648 Calibration Date: 08/24/10 Time: 16:10

Lab File ID: eg24c51.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Isopropylbenzene	2.1027	2.1780	51.79	50	4
Cyclohexanone	0.3937	0.3924	622.89	625	0
# 1,1,2,2-Tetrachloroethane	0.9636	1.0475	54.35	50	9 #
trans-1,4-Dichloro-2-Butene	0.2888	0.3156	136.59	125	9
Bromobenzene	0.8850	0.8615	48.67	50	-3
1,2,3-Trichloropropane	0.2842	0.3154	55.48	50	11
n-Propylbenzene	4.5351	4.6947	51.76	50	4
2-Chlorotoluene	0.9043	0.9074	50.17	50	0
1,3,5-Trimethylbenzene	3.0973	3.1739	51.24	50	2
4-Chlorotoluene	0.9164	0.8915	48.64	50	-3
tert-Butylbenzene	0.7705	0.7790	50.55	50	1
Pentachloroethane	0.4611	0.4495	48.74	50	-3
1,2,4-Trimethylbenzene	3.2111	3.2838	51.13	50	2
sec-Butylbenzene	4.0696	4.2524	52.25	50	4
p-Isopropyltoluene	3.5382	3.6449	51.51	50	3
1,3-Dichlorobenzene	1.7137	1.6897	49.30	50	-1
1,4-Dichlorobenzene	1.7336	1.6824	48.52	50	-3
1,2,3-Trimethylbenzene	3.1451	3.0902	49.13	50	-2
Benzyl Chloride	1.6493	1.7038	51.84	50	4
1,3-Diethylbenzene	2.0408	2.0435	50.06	50	0
1,4-Diethylbenzene	1.8978	1.8745	49.39	50	-1
n-Butylbenzene	1.7706	1.8005	50.84	50	2
1,2-Dichlorobenzene	1.6393	1.5976	48.73	50	-3
1,2-Diethylbenzene	1.9026	1.8703	49.15	50	-2
1,2-Dibromo-3-Chloropropane	0.1823	0.2230	62.29	50	25
1,2,4-Trichlorobenzene	1.1934	1.1820	49.52	50	-1
Hexachlorobutadiene	0.5554	0.5326	47.95	50	-4
Naphthalene	3.4407	3.8280	55.63	50	11
1,2,3-Trichlorobenzene	1.1074	1.1019	49.75	50	-1
2-Methylnaphthalene	1.8178	1.9906	54.75	50	10
Dibromofluoromethane	0.2236	0.2230	49.87	50	0
Dibromofluoromethane(mz111)	0.2295	0.2277	49.62	50	-1
1,2-Dichloroethane-d4	0.0594	0.0605	50.96	50	2
1,2-Dichloroethane-d4(mz104)	0.0382	0.0375	49.08	50	-2
Toluene-d8(mz100)	0.8943	0.9139	51.10	50	2

PTL86 8482

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP15648 Calibration Date: 08/25/10 Time: 08:58

Lab File ID: eg25c01.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4396	0.4181	47.55	50	-5	
#	Chloromethane	0.4484	0.4595	51.24	50	2	#
	1,3-Butadiene	0.2824	0.2595	45.95	50	-8	
*	Vinyl Chloride	0.4335	0.4358	50.27	50	1	*
	Bromomethane	0.2745	0.2711	49.37	50	-1	
	Chloroethane	0.2562	0.2627	51.27	50	3	
	Dichlorofluoromethane	0.5595	0.5407	48.32	50	-3	
	Trichlorofluoromethane	0.4747	0.4420	46.56	50	-7	
	n-Pentane	0.5220	0.0462	4.42	50	-91	
	Ethyl Ether	0.2438	0.2260	46.36	50	-7	
	Freon 123a	0.3520	0.3403	48.33	50	-3	
	Acrolein	2.8089	2.3861	424.73	500	-15	
*	1,1-Dichloroethene	0.2833	0.2700	47.65	50	-5	*
	Freon 113	0.2851	0.2641	46.33	50	-7	
	Acetone	0.0900	0.1093	121.42	100	21	
	Methyl Iodide	0.4669	0.4467	47.83	50	-4	
	Carbon Disulfide	0.7821	0.7560	48.33	50	-3	
	Allyl Chloride	0.4560	0.4233	46.41	50	-7	
	Methyl Acetate	0.2402	0.2413	50.22	50	0	
	Methylene Chloride	0.2962	0.2778	46.88	50	-6	
	t-Butyl Alcohol	1.1985	1.1740	244.90	250	-2	
	Acrylonitrile	0.1349	0.1492	55.31	50	11	
	trans-1,2-Dichloroethene	0.2948	0.2851	48.35	50	-3	
	Methyl Tertiary Butyl Ether	0.8140	0.8044	49.41	50	-1	
	n-Hexane	0.4579	0.4062	44.35	50	-11	
	1,2-Dichloroethene (total)	0.3031	0.2903	95.81	100	-4	
#	1,1-Dichloroethane	0.5277	0.5171	49.00	50	-2	#
	di-Isopropyl Ether	0.8890	0.8806	49.52	50	-1	
	2-Chloro-1,3-Butadiene	0.4105	0.4120	50.18	50	0	
	Ethyl t-Butyl Ether	0.8299	0.8297	49.99	50	0	
	cis-1,2-Dichloroethene	0.3113	0.2955	47.46	50	-5	
	2-Butanone	0.1511	0.1854	122.71	100	23	
	2,2-Dichloropropane	0.3935	0.3915	49.75	50	-1	
	Propionitrile	1.9747	1.8382	232.72	250	-7	
	Methacrylonitrile	0.1429	0.1523	140.27	125	12	
	Bromochloromethane	0.1479	0.1320	44.63	50	-11	

PTL86 0504

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: HP15648 Calibration Date: 08/25/10 Time: 08:58

Lab File ID: eg25c01.d Init. Calib. Date(s): 08/19/10 08/19/10

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .18

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Tetrahydrofuran	1.8328	1.6482	89.92	100	-10	
*	Chloroform	0.4673	0.4494	48.08	50	-4	*
	1,1,1-Trichloroethane	0.4501	0.4147	46.06	50	-8	
	Cyclohexane	0.5526	0.5182	46.89	50	-6	
	1,1-Dichloropropene	0.4254	0.4168	49.00	50	-2	
	Carbon Tetrachloride	0.3267	0.3204	49.03	50	-2	
	Isobutyl Alcohol	0.4054	0.3931	606.06	625	-3	
	Benzene	1.2165	1.1672	47.97	50	-4	
	1,2-Dichloroethane	0.3482	0.3401	48.84	50	-2	
	t-Amyl Methyl Ether	0.8054	0.7890	48.98	50	-2	
	n-Heptane	0.4556	0.4029	44.22	50	-12	
	n-Butanol	0.3584	0.3393	1183.33	1250	-5	
	Trichloroethene	0.3128	0.2985	47.72	50	-5	
*	1,2-Dichloropropane	0.3077	0.2934	47.68	50	-5	*
	Methylcyclohexane	0.5793	0.5057	43.64	50	-13	
	Methyl Methacrylate	0.2580	0.2704	52.40	50	5	
	Dibromomethane	0.1752	0.1676	47.82	50	-4	
	1,4-Dioxane	0.1160	0.1298	699.27	625	12	
	Bromodichloromethane	0.3295	0.3113	47.24	50	-6	
	2-Nitropropane	0.0633	0.0666	112.75	100	13	
	2-Chloroethyl Vinyl Ether	0.2103	0.2119	50.39	50	1	
	cis-1,3-Dichloropropene	0.4370	0.4119	47.13	50	-6	
	4-Methyl-2-Pentanone	0.3355	0.3818	113.80	100	14	
*	Toluene	1.0963	1.0540	48.07	50	-4	*
	trans-1,3-Dichloropropene	0.5606	0.5322	47.47	50	-5	
	Ethyl Methacrylate	0.4637	0.4629	49.92	50	0	
	1,1,2-Trichloroethane	0.3540	0.3449	48.72	50	-3	
	Tetrachloroethene	0.5097	0.4681	45.92	50	-8	
	1,3-Dichloropropane	0.6252	0.6117	48.92	50	-2	
	2-Hexanone	0.3308	0.3871	124.50	100	24	
	Dibromochloromethane	0.3452	0.3311	47.96	50	-4	
	1,2-Dibromoethane	0.3600	0.3452	47.94	50	-4	
#	Chlorobenzene	1.1868	1.1418	48.10	50	-4	#
	1,1,1,2-Tetrachloroethane	0.3535	0.3328	47.08	50	-6	
*	Ethylbenzene	2.1007	2.0593	49.02	50	-2	*
	m+p-Xylene	0.8254	0.8128	98.47	100	-2	

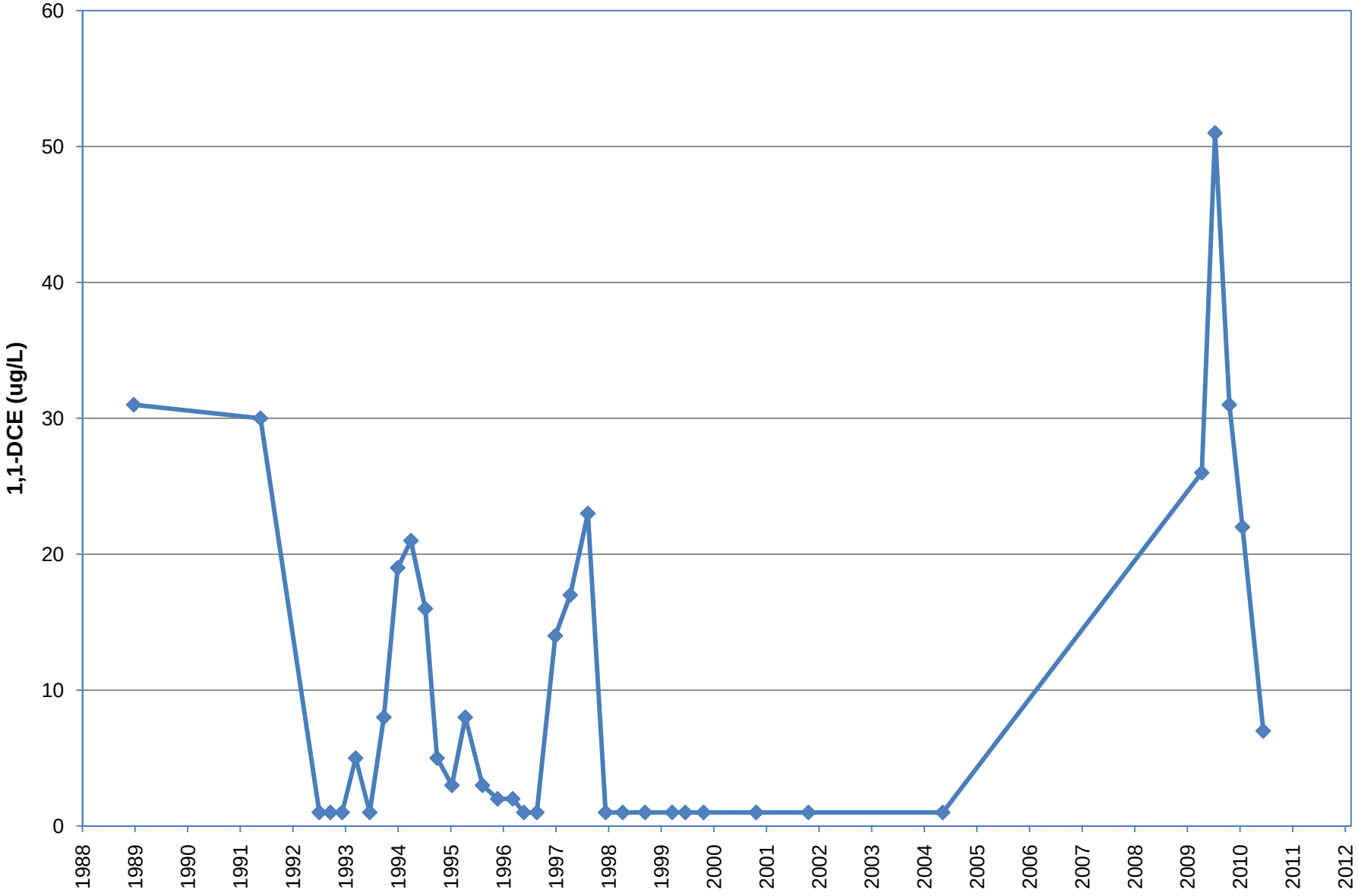
PTL06 0585

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

APPENDIX C

1,1-DCE TREND GRAPHS

P-7


1,1-DCE (ug/L)
60
50
40
30
20
10
0
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
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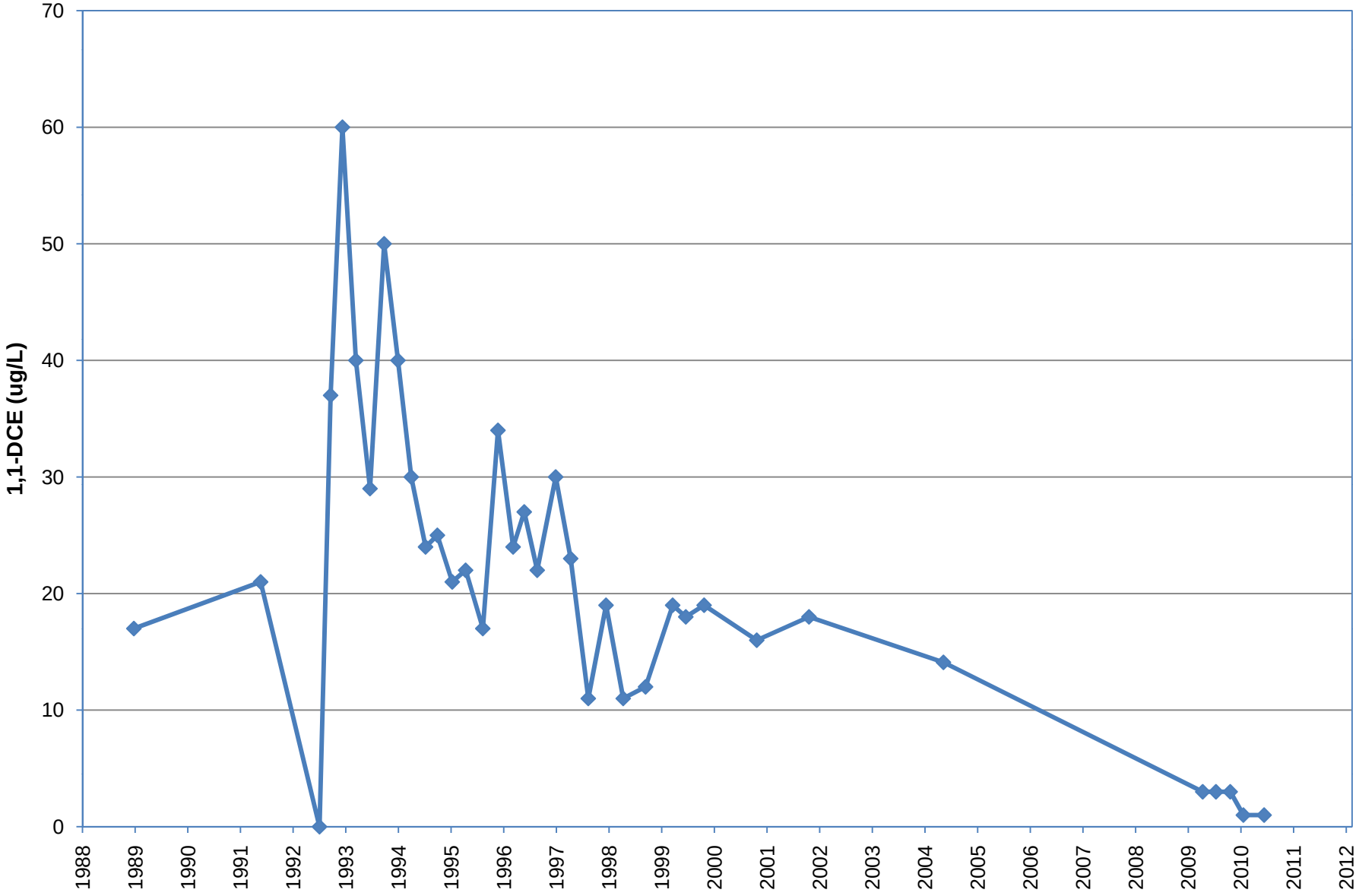
2008
2009
2010
2011
2012

P-7a


1,1-DCE (ug/L)
70
60
50
40
30
20
10
0
1988
1989
1990
1991
1992
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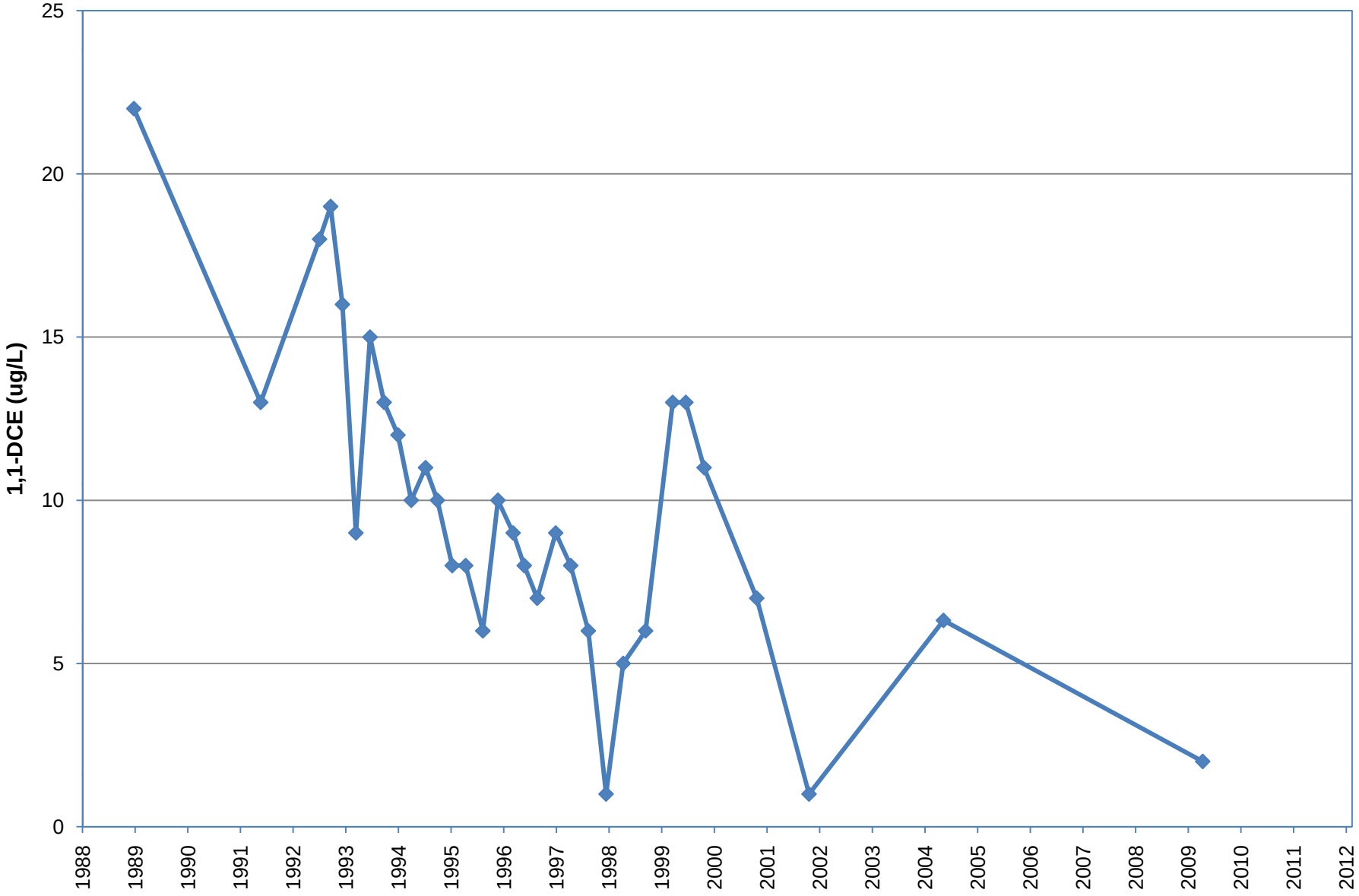
P-9


1,1-DCE (ug/L)
25
20
15
10
5
0
1988
1989
1990
1991
1992
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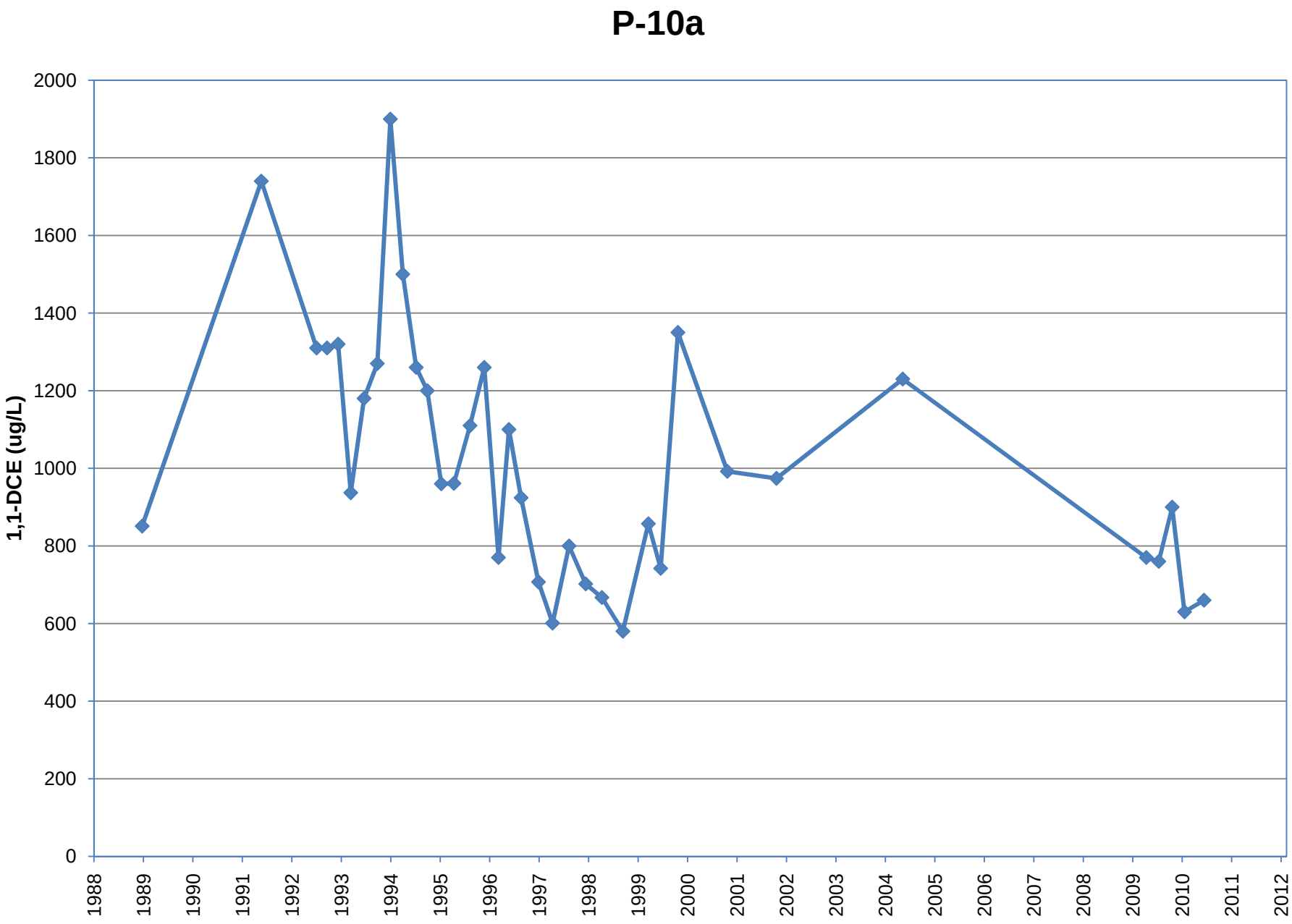
2012


P-10a
1,1-DCE (ug/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
1988
1989
1990
1991
1992
1993
1994
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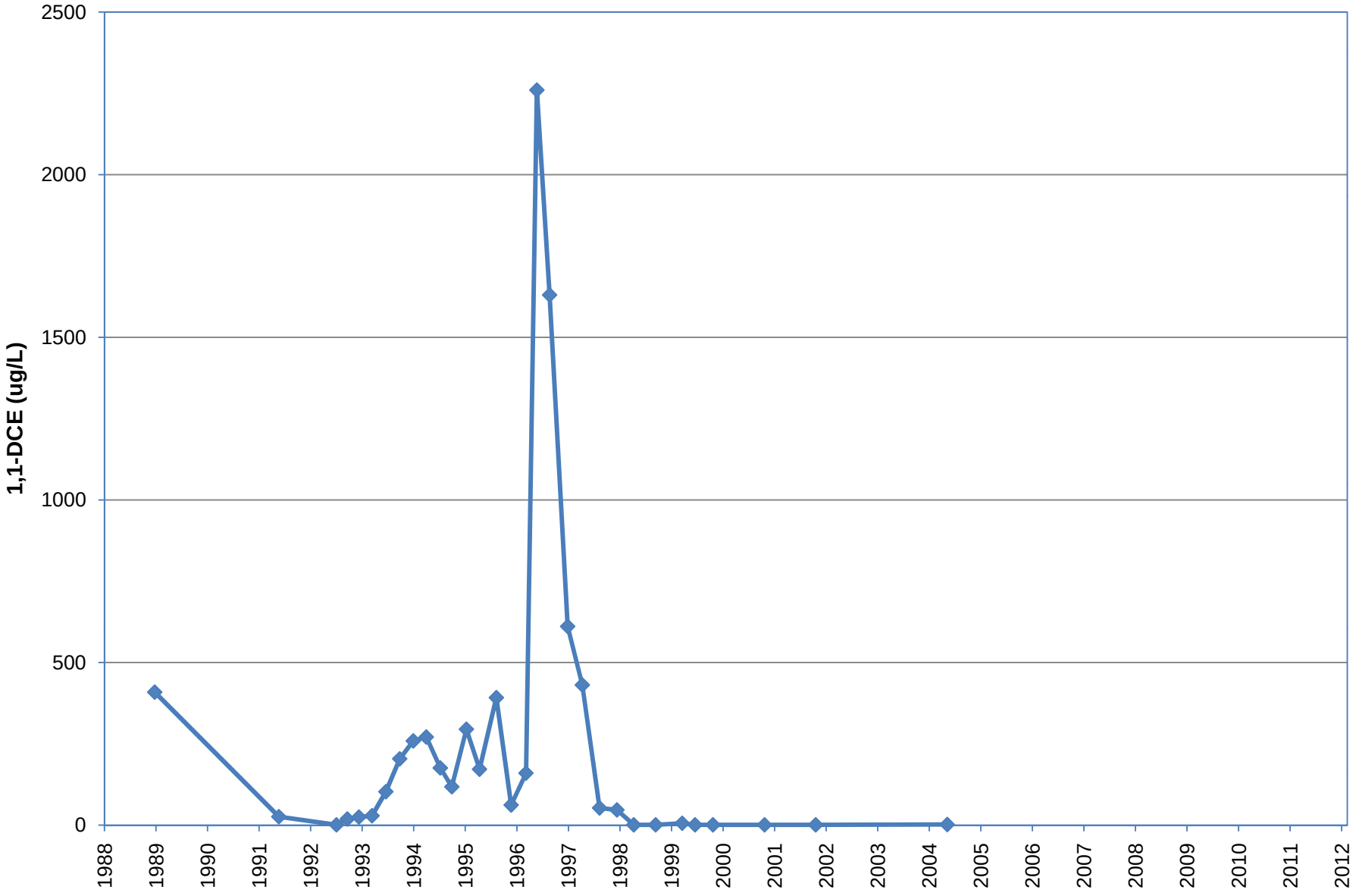
2012

P-11


1,1-DCE (ug/L)
2500
2000
1500
1000
500
0
1988
1989
1990
1991
1992
1993
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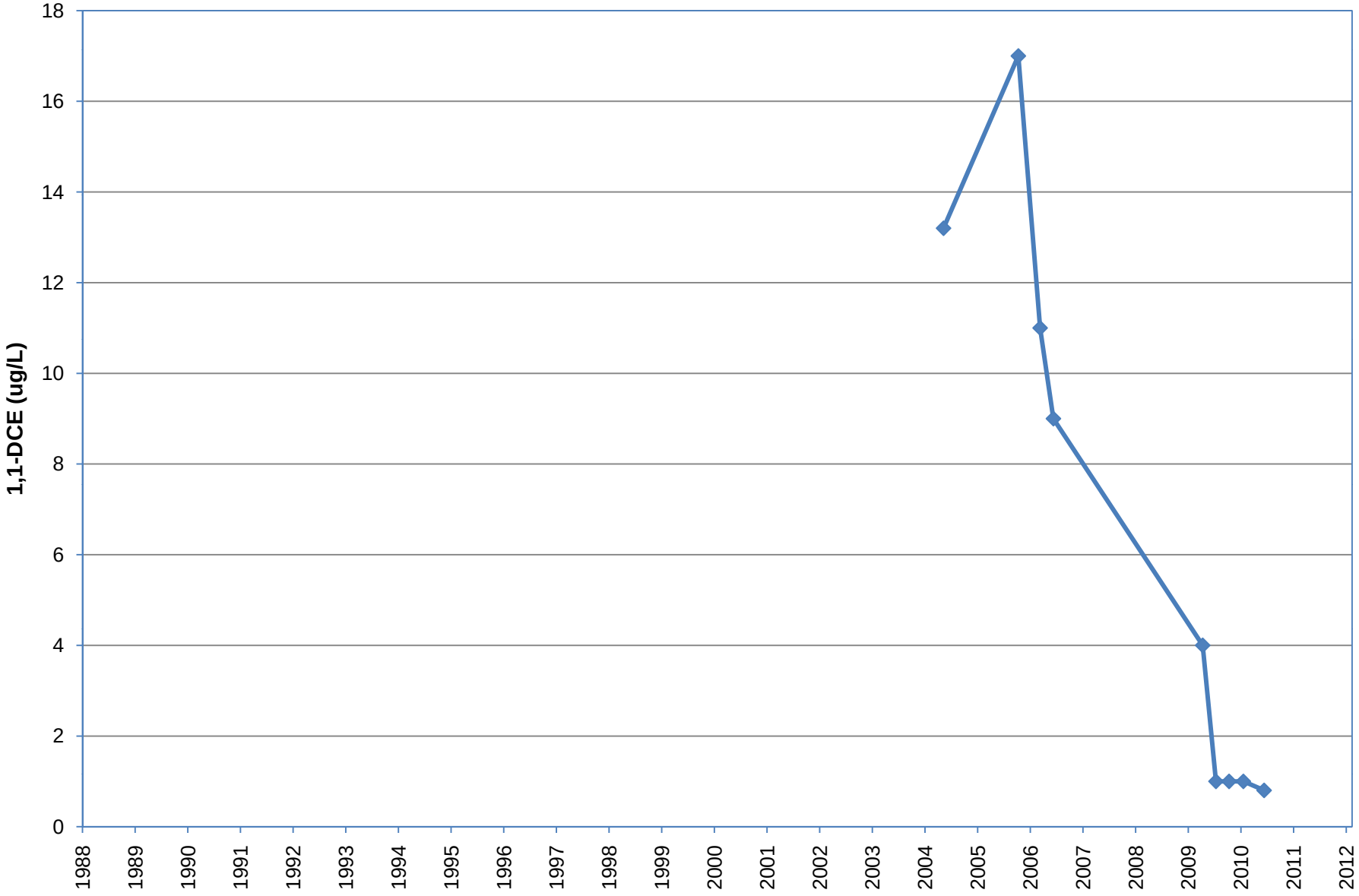
2012

P-16S


1,1-DCE (ug/L)
0
2
4
6
8
10
12
14
16
18
1988
1989
1990
1991
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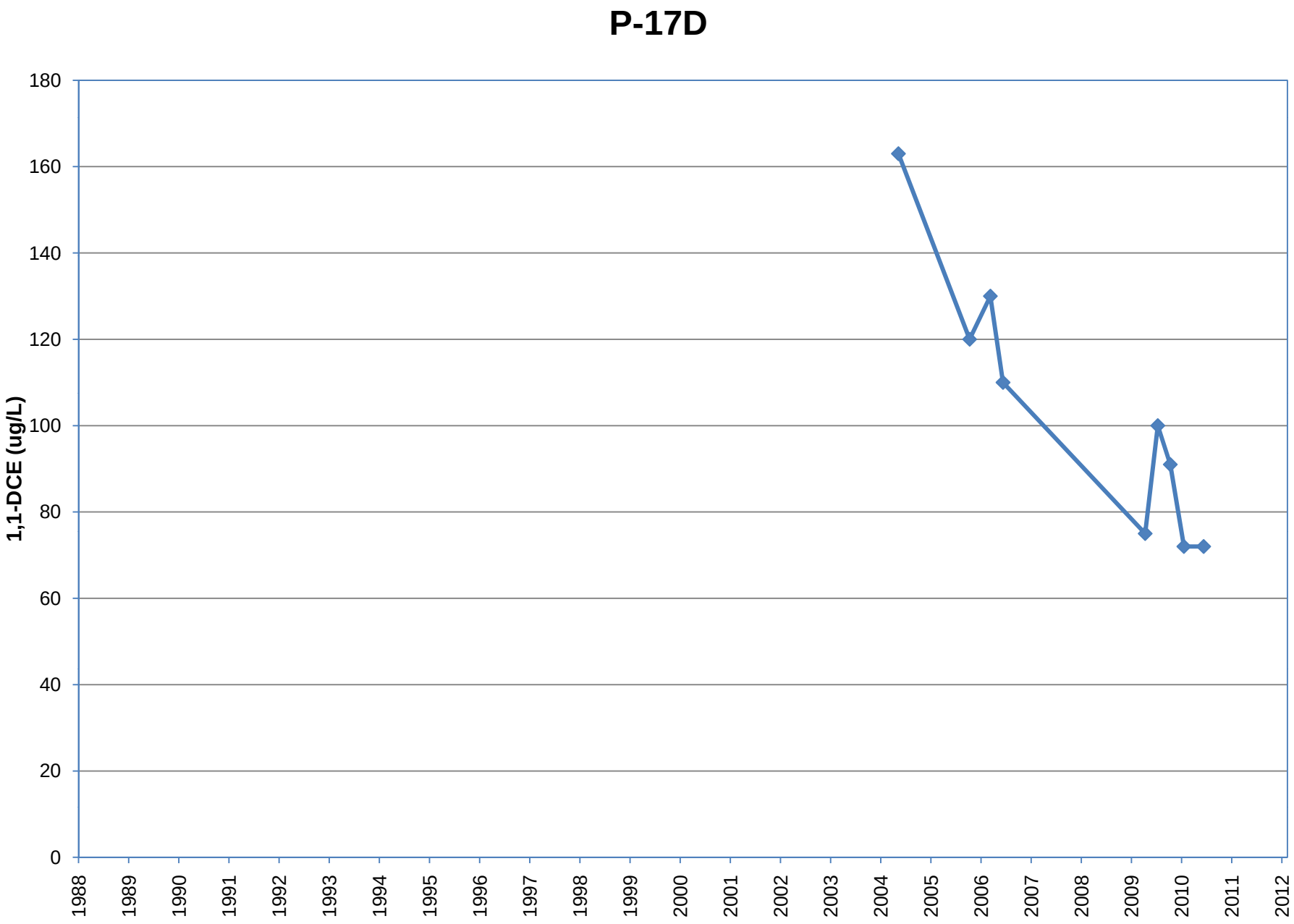
P-17D
1,1-DCE (ug/L)
180
160
140
120
100
80
60
40
20
0
1988
1989
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2011
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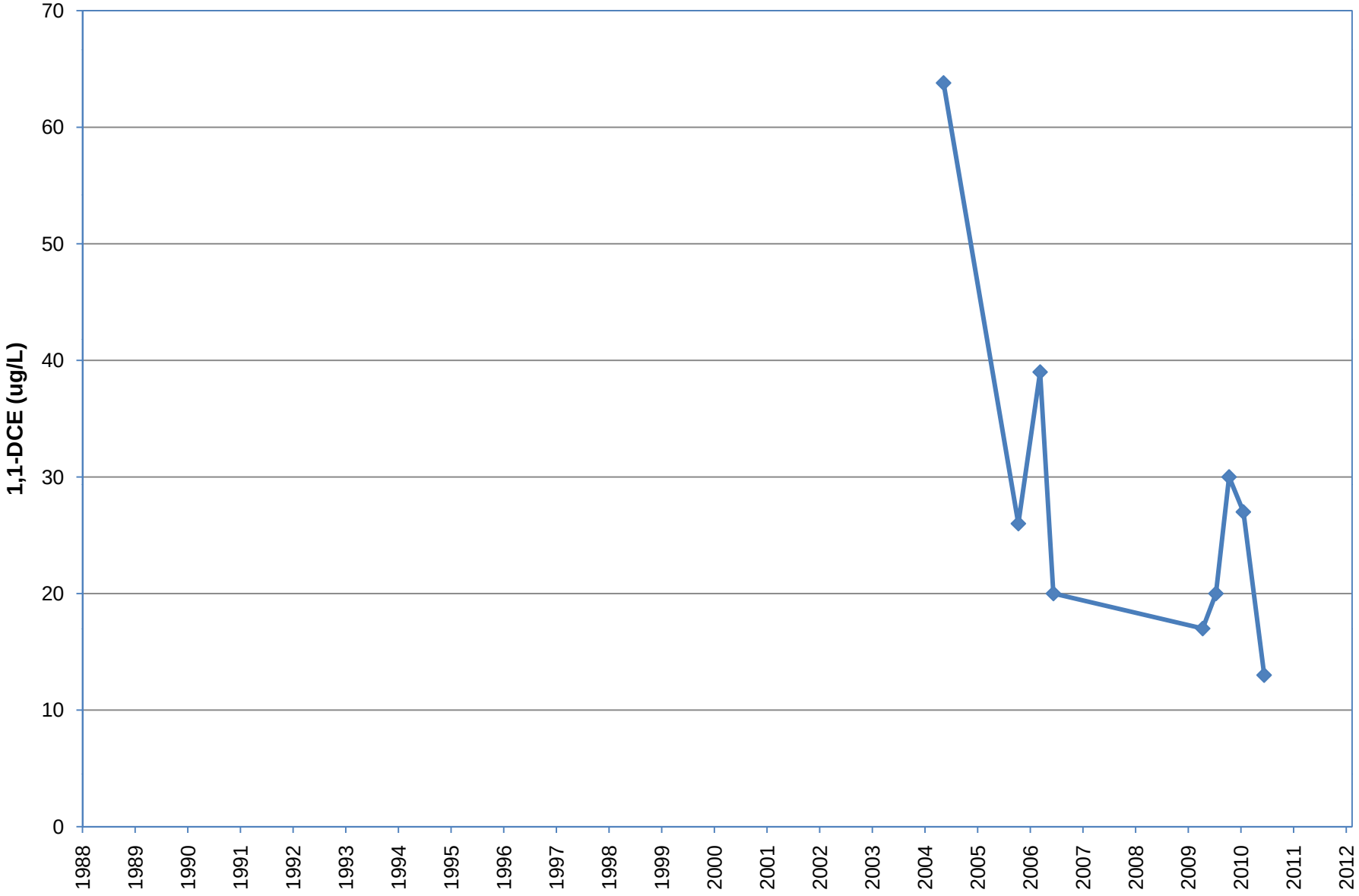
P-18S


1,1-DCE (ug/L)
70
60
50
40
30
20
10
0
1988
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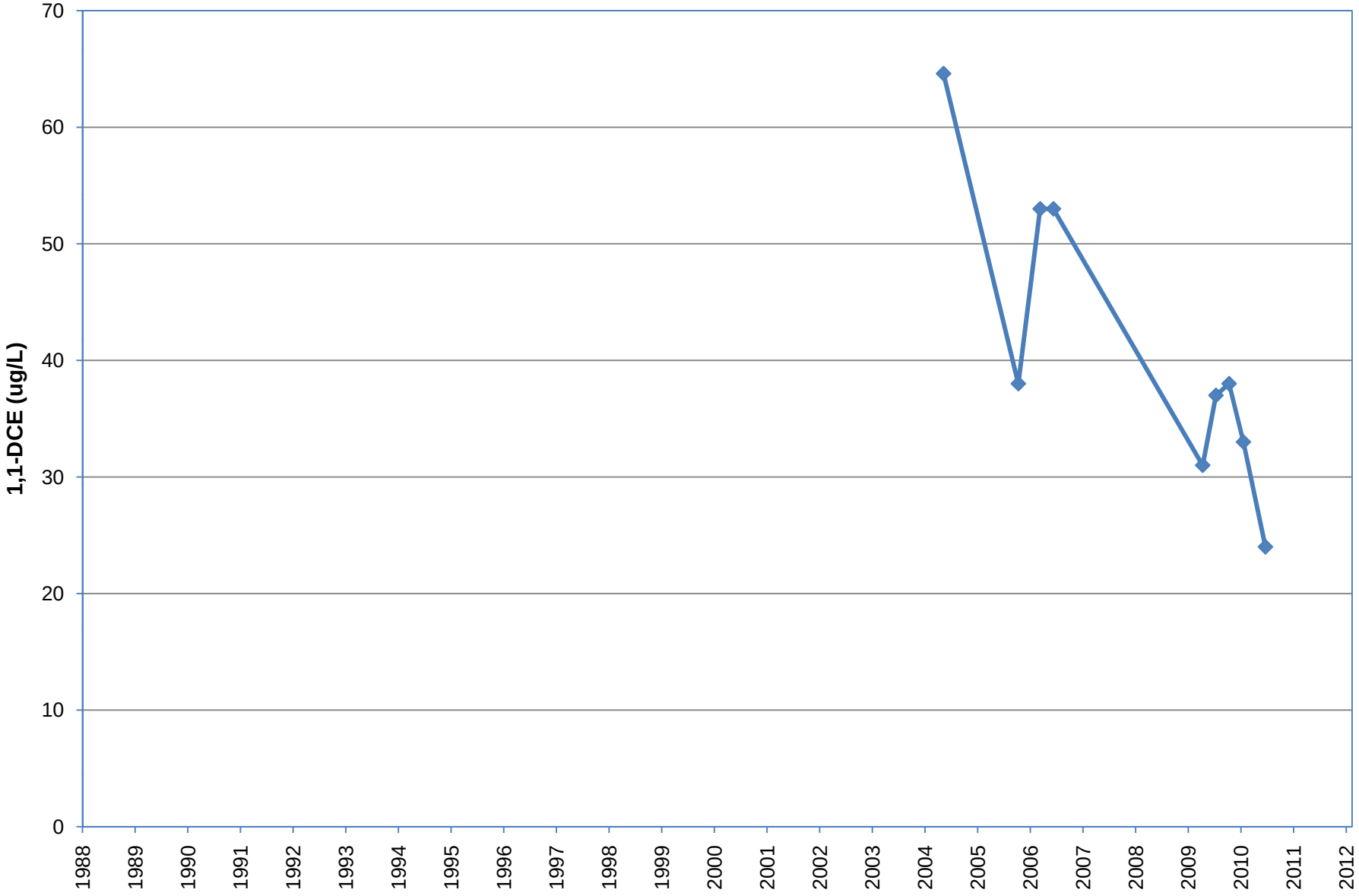
P-18D


1,1-DCE (ug/L)
70
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30
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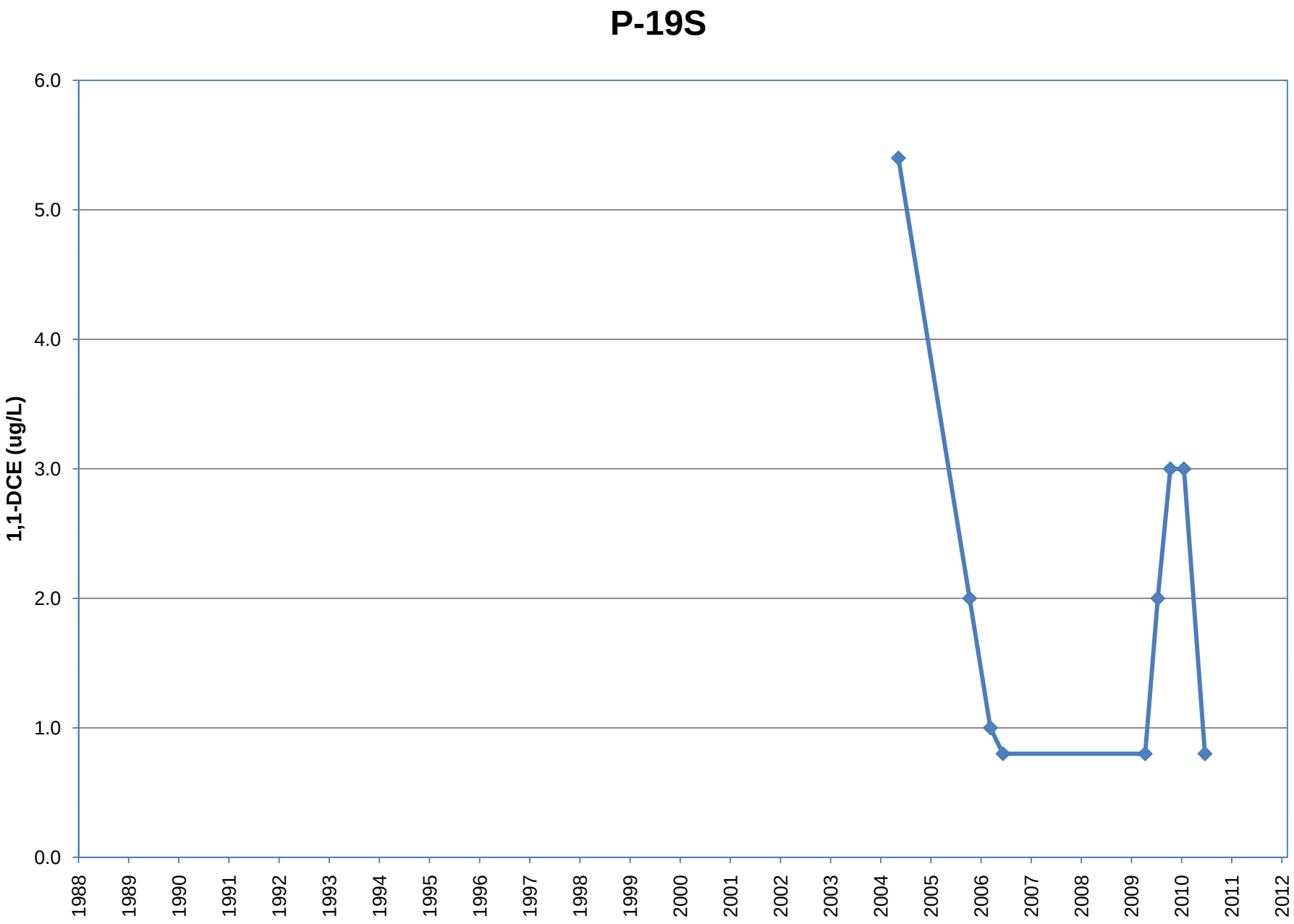
P-19S
1,1-DCE (ug/L)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
1988
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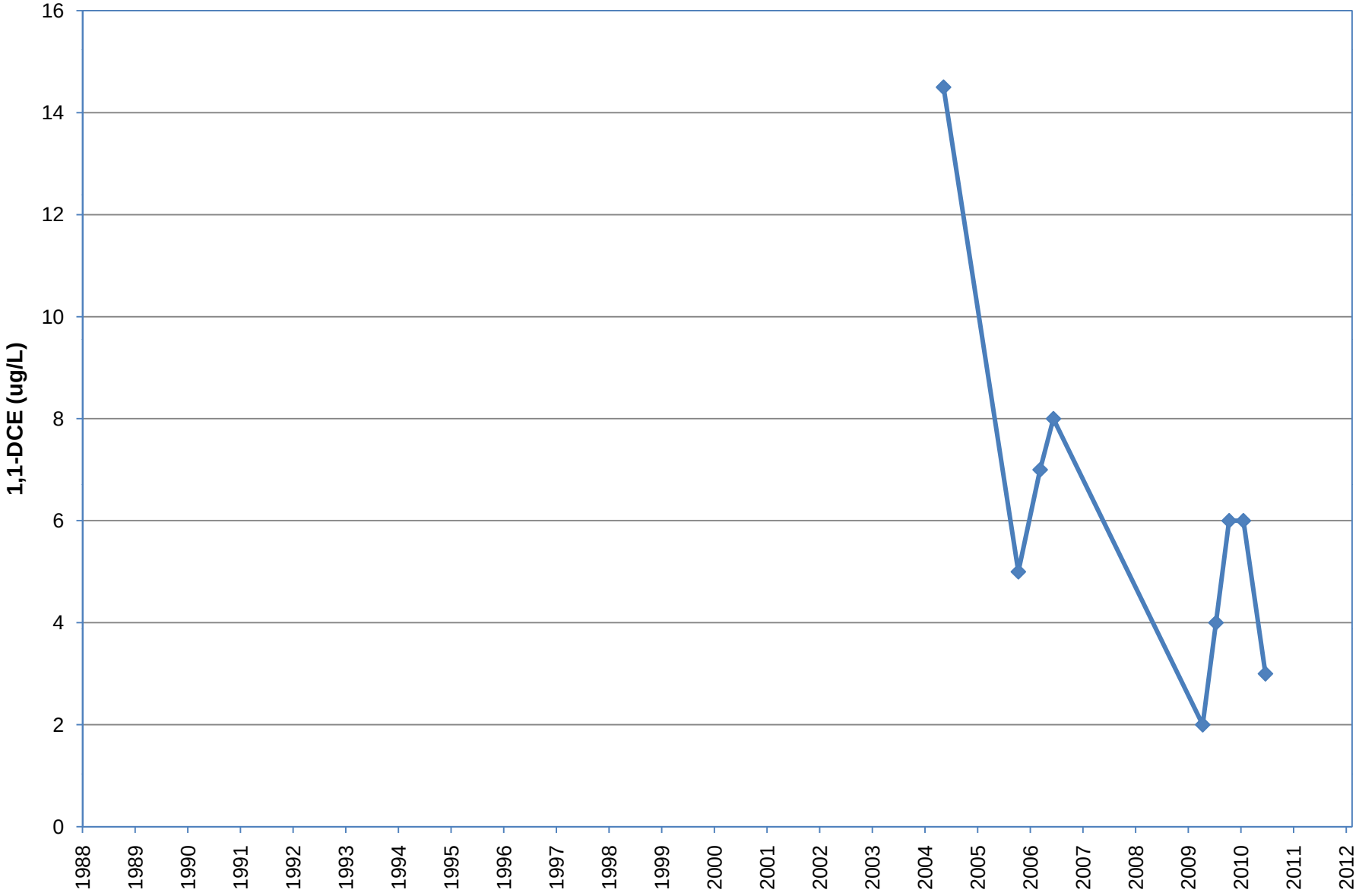
P-19D


1,1-DCE (ug/L)
0
2
4
6
8
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12
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1988
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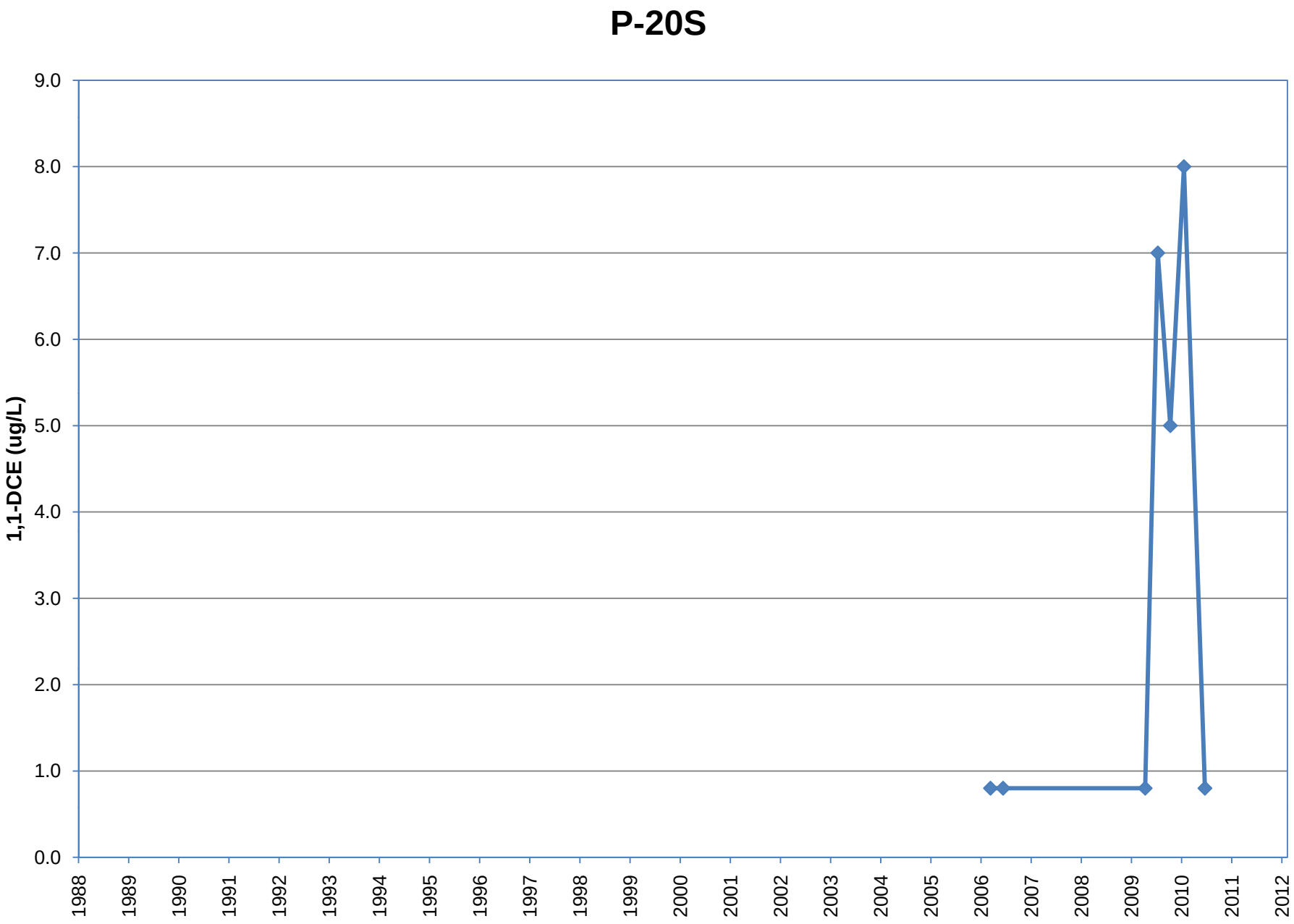
P-20S
1,1-DCE (ug/L)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
1988
1989
1990
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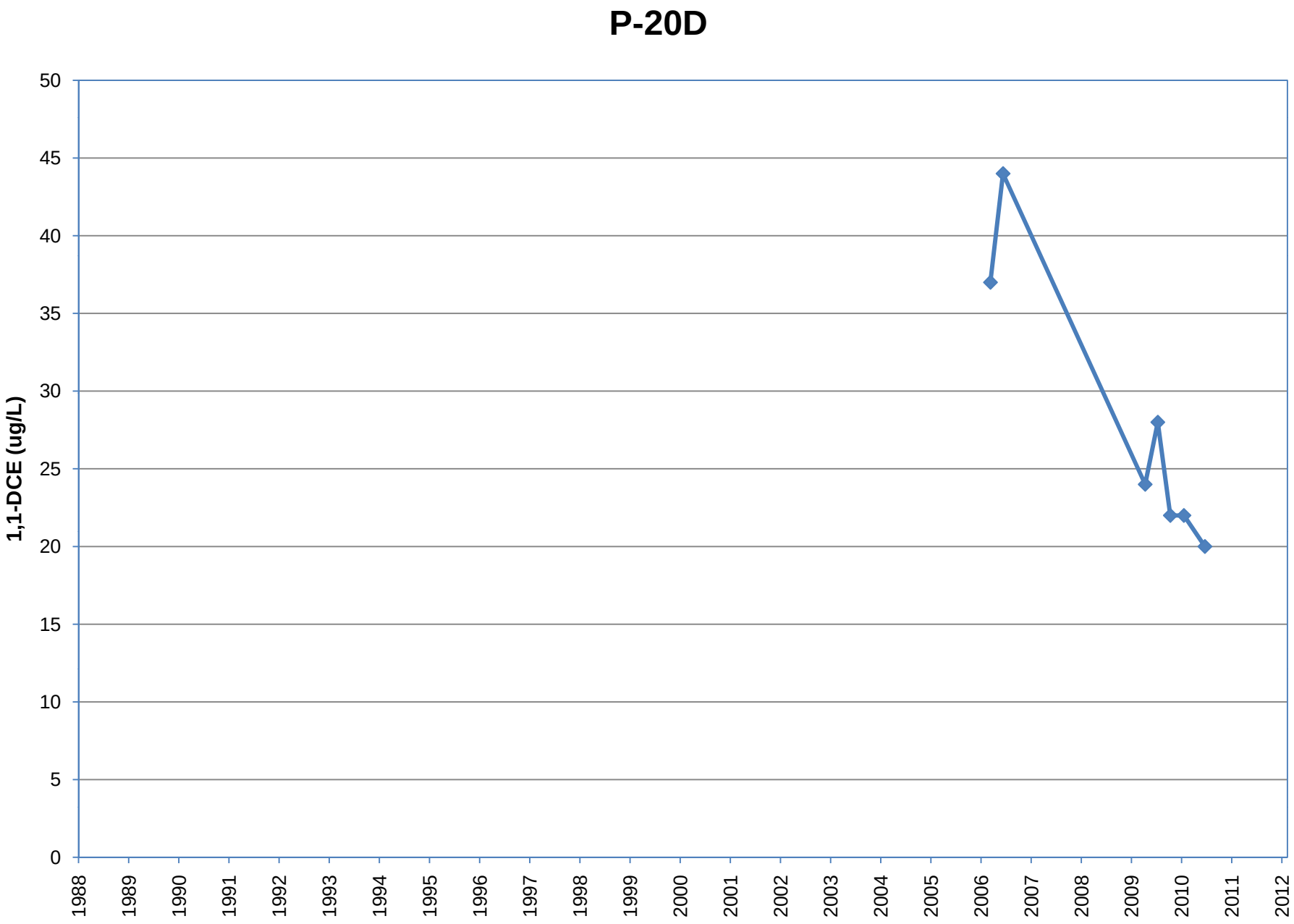
P-20D
1,1-DCE (ug/L)
50
45
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35
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25
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APPENDIX D

PROGRESS REPORT

Progress Report for this reporting period (May 2 through September 30, 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 the USEPA, 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, the USEPA 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, the USEPA 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. The USEPA did not approve the Supplemental RFI as it felt further delineation was required. The USEPA 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 the USEPA 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 the USEPA to execute the *Groundwater Modeling Work Plan* in May 2009. GE initiated this work in June 2009 and submitted the draft results to the USEPA and EQB in September 2009. GE then monitored groundwater for one year. The results of these monitoring events (June, September, December 2009, and March 2010) have been submitted to the USEPA. GE will discuss the approach for future monitoring with the USEPA (additional monitoring is not currently scheduled). After completing the groundwater delineation, GE plans to address the USEPA'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 the USEPA 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 the USEPA 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 offsite (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 previous sampling events 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) is approximately 22 to 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 August 2010 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 submitted with Groundwater Monitoring Reports (as appropriate).

The draft *Groundwater Modeling Report* was submitted to the USEPA and EQB on September 4, 2009. Informal comments regarding the results presented in this draft report have been received from the USEPA.

The *Groundwater Monitoring Reports* for September 2009, December 2009 and March 2010 were submitted to the USEPA and EQB. Informal comments regarding these results presented in this report have been received from the USEPA.

An announcement was made that the facility will no longer be operational as of the summer of 2010. Manufacturing operations have since been ceased and GE is currently performing decommissioning and site exiting activities. These activities include evaluating site wide environmental and building conditions not associated the consent order. If information gathered during these activities appears to be related to the consent order (in particular the former French Sump), this information will be shared with the USEPA via a subsequent document.

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

Development of a groundwater monitoring plan and further negotiations with USEPA regarding characterization of impacted groundwater.

GE is planning to submit a Quality Assurance Project Plan to the USEPA that will outline the use of passive diffusion bag samplers in lieu of low flow groundwater sampling.

ix. Copies of daily reports, inspections reports, laboratory/monitoring data, etc.

Field data sheets and laboratory data for the August 2010 sampling event are enclosed.