Reliance Environmental, Inc

235 N. Duke Street, Lancaster, PA 17602 (888) 735-2008
Lancaster, PA – Sarasota, FL

PERIODIC REVIEW REPORT

OCEANSIDE PLAZA
NASSAU COUNTY, NEW YORK

NYSDEC Site Number: C130158

Prepared for:
Oceanside Plaza Associates, LLC
151 Irving Place
Woodmere, New York 11598

Prepared by:
Reliance Environmental, Inc.
235 N. Duke Street
Lancaster, PA 17602
(888) 735-2008

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1.0 EXECUTIVE SUMMARY

1.1 Site Summary

1.1.1 Location and Description

The Site is an irregularly shaped 7.45 acre parcel occupying 3131-3221 Long Beach Road, Oceanside, Nassau County, New York - Section 43, Block 368, Lots 19, 20, 41 thru 45, 75 thru 92, 107 and 355 on the Official Land and Tax Map of Nassau County, New York. The Site contains four single-story buildings used for retail purposes with asphalt-paved driveways and parking areas.

1.1.2 Nature and Extent of Contamination

- An area of soil contamination (tetrachloroethene (PCE) and related compounds) was initially identified immediately east of the dry cleaner facility's rear door - exterior.
- An area of soil contamination (PCE and related compounds) was identified in the vicinity of the dry cleaning machine room - interior.
- A PCE based ground water plume originating to the east of the dry cleaner facility's rear door and migrating in a southeastern direction was identified.
- A PCE and trichloroethene (TCE) soil vapor plume existed beneath the building.

1.1.3 Summary of Remedial Actions

- Excavation of interior and exterior soils exceeding the unrestricted Soil Cleanup Objectives (SCOs), to a maximum depth of 4.25 feet below grade;
- Active sub-slab depressurization system (SSDS) installation and monitoring to prevent human exposure to vapors emanating from the contaminated soil remaining at the Site;
  - One vertical sub-slab vapor extraction point was added in January 2015, located within the dry cleaner machine room, opposite the Retail Unit 12 (current wine store).
- Execution and recording of an Environmental Easement to restrict groundwater use and prevent future exposure to any contamination remaining at the Site;

1.2 Effectiveness of the Remedial Program

As provided in the Final Engineering Report, dated December 2013, the selected remedy for the site is **No Further Action** with continued short-term operation of the sub-slab depressurization system (SSDS; $\leq$ 5 years), continued associated monitoring of indoor air quality with the following institutional controls and continued site management. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8.

1.3 Compliance

The Institutional Controls/Engineering Controls (IC/EC) were in place, operational and protective of public health and the environment during the time period of this Periodic Review Report (July 1, 2014 to March 25, 2015). Subsequent to the Periodic Review Report time period, during a routine SSDS monitoring visit conducted on April 9, 2015, the SSDS was found to be non-operational upon arrival due to an inoperable blower motor. As per NYSDEC request, the IC/EC Certification is being submitted through the date the EC was known to be operational (March 25, 2015). Further, as described in the following sections, based on current site monitoring data, Reliance Environmental, Inc. is recommending New York State Department of Environmental Concern (NYSDEC) and New York State Department of Health (NYSDOH) approve the permanent shutdown of the EC (SSDS), as well as discontinuing the associated EC inspection, maintenance tasks and vapor monitoring.

1.4 Recommendations

1. SSDS Engineering Control
   It is recommended that the requirement to operate the SSDS EC be terminated and the associated EC inspection, maintenance tasks and vapor monitoring task be discontinued. This recommendation is based on the documented effectiveness of the SSDS system at remediating residual vapors beneath the concrete slab of the facility. When evaluated using the NYSDOH Soil Vapor/Indoor Air Matrices, the data indicate there is no longer a need for vapor mitigation or monitoring at the Site. If approved, the SSDS system will be removed.

2. Groundwater Monitoring Termination
   It is recommended that the groundwater monitoring program be terminated, based on the non-detect and asymptotic patterns demonstrated. Source area well, MW-4, has not exhibited any impact since April 2012. Down gradient/perimeter well, MW-5, has been in compliance since October 2012 for PCE, leaving only PCE breakdown product cis 1, 2-dichloroethene above the corresponding NYSDEC GWQS at relatively consistent concentrations since April 2012. If approved, REI will then decommission the monitoring wells in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures."

2.0 SITE OVERVIEW

2.1 Site Description

The Site is an irregularly shaped 7.45 acre parcel occupying 3131-3221 Long Beach Road, Oceanside, Nassau County, New York -- Section 43, Block 368, Lots 19, 20, 41 thru 45, 75 thru 92, 107 and 355 on the Official Land and Tax Map of Nassau County, New York (Figure 1). The Site contains four single-story buildings used for retail purposes with asphalt-paved driveways and parking areas.

The Site retail buildings, reported to have been constructed in 1958 and 1976, contain 21 tenants - including Nathan's Famous Restaurant (3131 Long Beach Road), Greenspoint Bank (3151 Long Beach Road), TJ Maxx (3221 Long Beach Road) and multiple tenants occupying addresses 3153 – 3199 Long Beach Road (Figure 2). The surrounding area is comprised of residential and commercial/retail properties.

2.2 Nature and Extent of Contamination

2.2.1 Soils

PCE and related compounds were identified in subsurface soils at the Site, related to a dry cleaning operation located in Retail Space 13 (Figure 2) within the mall. Affected soils were identified both within the facility, near the machine room, and in a grass covered area to the exterior of the rear door of the facility. The interior soils were addressed in 2005, prior to the property owner entering into the Brownfield Cleanup Program (BCP). The delineated exterior soils were identified as the primary source of groundwater contamination in later investigations, and were the subject of Interim Remedial Measures (IRMs) designed to remove these soils/contaminants through excavation and disposal and soil vapor extraction.

Prior to the IRMs, PCE concentrations in the soils ranged from 0.51 mg/kg to 1,200 mg/kg (Table 1). The Track 1 Objective - Unrestricted Use SCO for PCE is 1.3 mg/kg.

2.2.2 Ground Water

PCE and related compounds were identified in ground water at the Site, in ground water monitoring wells MW-4 and MW-5. The ground water monitoring well data, in conjunction with the soil data, indicated the plume originates in the vicinity of well MW-4 (located directly behind the rear door of the dry cleaner). From this point, the plume migrates in a southeastern direction, following the ground water flow pattern, encompassing well MW-5.

Pre-remedial PCE concentrations in the ground water ranged from non-detect to 360 µg/l in source area well MW-4, and from 74 µg/l to 160 µg/l in down-gradient property boundary well MW-5 (Table 2). The Ground Water Standards/Criteria for PCE is 5.0 µg/l. Cis-1,2-Dichloroethene concentrations in the ground water ranged from non-detect to 54 µg/l in MW-5. The Ground Water Standards/Criteria for cis-1,2-Dichloroethene is 5.0 µg/l. Vinyl Chloride concentrations in the ground water ranged from non-detect to 17 µg/l in MW-5. The ground Water Standards/Criteria for vinyl chloride is 2.0 µg/l.

2.2.3 Vapor Intrusion

Indoor air quality samples were collected from the retail spaces immediately adjacent to the dry cleaners (i.e. 12 and 14). Pre-remediation PCE levels in indoor air samples ranged from 2.3 µg/m3 to 880 µg/m3. TCE levels in indoor air samples ranged from non-detect to 5.9 µg/m3 (Table 3).

Sub-slab soil vapor samples were collected from three soil vapor ports located within the dry cleaners, four soil vapor ports in adjacent retail spaces (i.e. 9, 12, 14 and 16) and one soil vapor port to the rear (east) of the dry cleaners. Pre-remediation PCE concentrations in the sub-slab soil vapor samples ranged from non-

detect to 81,000 µg/m3. TCE concentrations in the sub-slab soil vapor samples ranged from non-detect to 380 µg/m3.

Soil vapor data indicates that the PCE plume encompassed approximately 945 square feet and the TCE plume encompassed approximately 415 square feet. Both plumes center on the dry cleaning operation.

2.3 Remedial Program

1. The interior soils were excavated/disposed in 2005, prior to the property owner entering into the BCP.

2. The exterior soils were excavated/disposed in 2010, to a maximum depth of 4.25 feet. Based upon compliance with the **Tract 1 Objectives - Unrestricted Use Soil Cleanup Objectives**, no further soil remediation activities were warranted.

3. In July 2009, a SSDS was constructed utilizing perforated plastic piping installed within the interior soil remediation excavation. After construction of the system, performance monitoring was conducted to demonstrate that the system was reducing impacts to indoor air. The remedial process will be considered complete when monitoring data indicates that the SSDS is no longer required to protect indoor air quality from being impacted by the soil vapor.
   - The 2014 Periodic Review Report recommended the installation of an additional soil vapor extraction point to better capture vapors beneath tenant space #12. The NYSDEC concurred with this recommendation (Site Management Periodic Review Report Response Letter, November 17, 2014) and the point was installed on January 8, 9 and 12, 2015 (see point #5 below).

4. Asymptotic concentration levels/trends of all ground water contaminants were exhibited through the November 2013 groundwater sampling event. In 2013, an Environmental Easement to restrict groundwater use and prevent future exposure to any contamination remaining at the Site was executed and recorded.
   - The 2014 Periodic Review Report recommended that the groundwater monitoring program be terminated, based on the non-detect and asymptotic patterns demonstrated. The NYSDEC requested the collection of an additional round of ground water sampling (Site Management Periodic Review Report Response Letter, November 17, 2014), which was conducted on March 10, 2015.

5. One change has been made to the selected SSDS remedy.

   <u>Additional SSDS Suction Port</u>

   a. To address sub-slab vapor levels persisting beneath Retail Unit 12 (current wine store), a sub-slab suction point was installed in the dry cleaner space approximate to the location of the soil vapor point in the wine store.

   b. The suction point consisted of a 4-inch diameter well screen, extending 18-inches below the concrete slab.

   c. A 4-inch diameter Schedule 40 polyvinyl chloride (PVC) pipe connected to slotted PVC screen. In addition, a sampling port, and a shut off valve and a vacuum gauge were installed on the suction point location to facilitate sampling, and to shut down the suction point (if needed) and monitor vacuum readings at the suction point.

   d. The suction point's extraction pipe runs vertically from the suction point to the ceiling where it was manifolded to the existing header pipe that goes to the existing blower mounted on the roof.

3.0 REMEDY EVALUATION

As provided in the Final Engineering Report, dated December 2013, the selected remedy for the site is **No Further Action** with continued short-term operation of the sub-slab depressurization system (SSDS; ≤ 5 years), continued associated monitoring of indoor air quality with the following institutional controls and continued site management. The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. Institutional Controls
   A series of Institutional Controls is required by the Decision Document to prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination (groundwater). Adherence to these Institutional Controls on the Site is required by the Environmental Easement and will be implemented under the Site Management Plan (SMP).

   These Institutional Controls are:

   - Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns;
   - Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.
   - Institutional Controls identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

2. Short Term Engineering Control - Sub-Slab Depressurization System
   An active SSDS has been installed at the former Jef El dry cleaner (currently Sunshine Cleaners/Retail Space 13). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of the SMP). Generally, remedial processes are considered completed when effectiveness monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.6 of NYSDEC DER-10.

   The active SSDS will not be discontinued unless prior written approval is granted by the NYSDEC. In the event that monitoring data indicates that the SSDS is no longer required, a proposal to discontinue the system will be submitted by the property owner to the NYSDEC and New York State Department of Health (NYSDOH). It is expected that the SSDS will be discontinued within 5 years (short-term engineering control).

3. Soil Vapor Intrusion Evaluation
   Until the SSDS can be discontinued, prior to the construction of any enclosed structures located over areas that contain remaining contamination and/or the potential for soil vapor intrusion (SVI) has been identified (see Figure 10 of the SMP), an SVI evaluation will be performed to determine whether any mitigation measures are necessary to eliminate potential exposure to vapors in the proposed structure. Alternatively, an SVI mitigation system may be installed as an element of the building foundation without first conducting an investigation. This mitigation system will include a vapor barrier and passive sub-slab depressurization system that is capable of being converted to an active system.

4. Excavation Work Plan

The Site has been remediated for unrestricted use. Any future intrusive work that encounters contamination (e.g. groundwater) will be performed in compliance with the Excavation Work Plan (EWP) that is attached as Appendix B to the SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the Site. Based on future changes to State and federal health and safety requirements, and specific methods employed by future contractors, the HASP and CAMP will be updated and re-submitted with the notification provided in Section B-1 of the EWP. Any intrusive construction work will be performed in compliance with the EWP, HASP and CAMP, and will be included in the periodic inspection and certification reports submitted under the Site Management Reporting Plan.

The Site owner and associated parties preparing the remedial documents submitted to the State, and parties performing this work, are completely responsible for the safe performance of all intrusive work, the structural integrity of excavations, proper disposal of excavation de-water, control of runoff from open excavations into remaining contamination, and for structures that may be affected by excavations (such as building foundations and bridge footings). The Site owner will ensure that Site development activities will not interfere with, or otherwise impair or compromise, any short-term engineering controls described in the SMP.

4.0 IC/EC PLAN COMPLIANCE

4.1 Introduction

Since remaining contaminated groundwater/soil vapor exists beneath the site, IC/ECs are required to protect human health and the environment. This Section summarizes the IC/ECs required by the SMP at the Site, as well as provides a summary of the IC/EC performance and effectiveness. Additionally, as required by the SMP, the IC/EC Certification is provided in Appendix A.

4.2 Engineering Controls

4.2.1 Sub-Slab Depressurization System

As discussed in the SMP, an active SSDS has been installed at the former Jef El dry cleaner (currently Sunshine Cleaners) and began operation in July 2009. This SSDS was installed by converting the existing 2 inch diameter horizontal screened sub-slab piping (installed following the interior excavation activities) to an active system. The 2 inch screened pipe is approximately 10 feet long. A 4.0-Hp regenerative blower was connected to the existing sub-slab piping via 4-inch diameter Schedule 40 PVC piping as shown on Figure 3. The blower is rated for 200 cubic feet per minute and 90 inches of water vacuum. The blower was installed on the roof of the dry cleaning facility and is housed in a weather tight enclosure. The weather tight enclosure has a ventilation fan and thermostat. A knock-out tank was also installed at the inlet to the blower to prevent water from being drawn into the blower. The knock-out tank has a high level switch to shut down the blower if the knock-out tank fills with water. A dilution valve has been installed at the inlet to the blower to control the vacuum and flow rate. Vacuum gauges have been installed at the knock out tank and the inlet to the blower. A pressure gauge was installed on the discharge of the blower. The discharge from the blower was connected to a vapor phase carbon (VPGAC) drum and away from any roof air intakes.

In addition to the horizontal 2-inch diameter sub-slab piping, on January 8, 9, and 12, 2015 Roux Associates installed a new 2-inch diameter vertical extraction point in accordance with the recommendations provided in Section 7.2 of the previous PRR (submitted to NSDEC in September 2014). The purpose of this additional extraction point was to address sub-slab vapor levels persisting beneath Retail Unit 12 (current wine store). This new sub-slab extraction point was located in the dry cleaner space, immediately adjacent to the north wall separating the dry cleaner from the wine store (Figure 3).

The vertical extraction point was constructed 4-inch diameter Schedule 40 PVC well screen set 18-inches below the concrete slab. The extraction point was sealed at the concrete slab, and connected to the existing SSDS riser using 4-inch diameter PCV pipe. A shut off valve was installed on the new vertical suction point. The SSDS system was configured to allow for operation of both the previously installed horizontal extraction pipe and the new vertical extraction point concurrently, or using the shutoff valves, either point can be shutdown, or throttled down.

This new extraction point was brought online and has been in operation since January 12, 2015, and has significantly increased the vacuum influence beneath the former wine store (Retail Unit 12).

The purpose and goal of this SSDS is to protect the occupants of the former Jef El cleaners and the surrounding retail spaces from potential vapor intrusion from the subsurface into the indoor air. This system is currently operational, and as supported by the monitoring data provided in the following Sections, is effectively achieving its goal of mitigating potential vapor intrusion.

4.2.2 SSDS Corrective Measures Completed
No corrective measures were required during the reporting period of this Periodic Review Report.

4.3 Institutional Controls

4.3.1 Environmental Easement
As discussed in the SMP, Institutional Controls have been enacted to prevent exposure to remaining contamination by controlling disturbances of the subsurface contamination (soil vapor and ground water). Adherence to the Institutional Controls that apply to the Controlled Property is required by the Environmental Easement, which set forth the following Site restrictions:

- The property may be used for Restricted Residential use provided that the Institutional Controls included in the SMP are employed.
- The use of the groundwater underlying the property is prohibited without testing and/or treatment rendering it safe for intended use;
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

4.3.2 Environmental Easement Granted
Pursuant to Article 71, Title 36 of the New York State Environmental Conservation Law, an Environmental Easement was granted for the Site on November 12, 2013. The NYSDEC accepted the Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as the Environmental Easement is extinguished.

The controls and requirements listed in the NYSDEC approved SMP, including any and all NYSDEC approved amendments to the SMP, were incorporated into and made part of the Environmental Easement.

4.4 IC/EC Plan Compliance Conclusions and Recommendations

The IC/ECs were in place, operational and protective of public health and the environment (see IC/EC Certification section below) during the reporting period covered by this Periodic Review Report (July 1, 2014 through March 25, 2015). As per our discussions with NYSDEC and as described above, although the SSDS was operation during the Periodic Review Report monitoring period, during a routine SSDS monitoring visit conducted subsequent to the Periodic Review Report monitoring period on April 12, 2015, the SSDS was found to be non-operational upon arrival due to an inoperable blower. Per NYSDEC request, we are providing the IC/EC Certification to the last date we can confirm SSDS operation (March 25, 2015).

Based on the March 25, 2015 sub-slab vapor and indoor air results (described below in Section 5), when compared to the NYSDOH Soil Vapor/Indoor Air Matrices, mitigation and even monitoring are no longer required at the Site. Based on these results, we are recommending that the requirement to operate the SSDS EC be terminated at the Site.

4.5 IC/EC Certification

IC/ECs have been established for the Site in accordance with the SMP. Institutional Controls include the following:

- Compliance with the Environmental Easement and the SMP by the Grantor and the Grantor's successors and assigns; and
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP.

Engineering Controls include the following:

- Short term (i.e., < 5 years) operation of the active SSDS.

As described above, the IC/ECs were in place, operational and protective of public health and the environment during the Periodic Review Report monitoring period (July 1, 2014 through March 25, 2015). An IC/EC Certification form is included as Appendix A.

5.0 MONITORING PLAN COMPLIANCE

5.1 Introduction

The Monitoring Plan presented in the SMP is designed to provide measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site and all affected media identified below. Monitoring of other short term Engineering Controls is described in the following section (Section 6.0 O&M Plan Compliance).

Monitoring programs are summarized below in Table 5.1 and outlined in detail in Section 5.2. Results for this monitoring period are provided in Section 5.3.

Table 5.1: Monitoring Schedule

Monitoring Program	Frequency*	Matrix	Analysis
Monitoring Wells	Single Event (03/2015)	Groundwater	VOCs (EPA 8260)
SSVS	Annual	Soil Vapor	Vinyl Chloride, 1,1-Dichloroethene, Trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, and Tetrachloroethene (USEPA Method TO-15)
SSVS	Annual	Indoor Air Quality	Vinyl Chloride, 1,1-Dichloroethene, Trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, and Tetrachloroethene (USEPA Method TO-15)

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

5.2 Media Monitoring Program

5.2.1 Sub-Slab Vapor, Indoor Air, Soil Vapor and Ambient Air Quality Monitoring

Vapor and Indoor Air Quality monitoring will be performed on an annual basis to assess the performance of the remedy. Indoor air quality samples, sub-slab vapor samples, soil vapor, and outdoor (ambient) air samples are to be collected from the following locations (numbers correspond to the "Retail Unit" numbers, as shown in Figure 4):

Indoor Air Quality	**Sub-Slab Vapor**	**Ambient**
Unit 14 (IAQ-Book) Unit 12 (IAQ-Vac)	Unit 14 (VS-Book) Unit 12 (VS-Vac) Unit 13 (DCF, DCR, MRE, Fence)	Unit 10 (rear)

All sub-slab vapor, indoor air, soil vapor and ambient air samples were collected following the procedures outlined in the SMP. The annual soil vapor sampling event was conducted on March 25, 2015. Note that on January 8, 2015 Roux Associates performed a repair on the permanent sub-slab vapor monitoring point VS-Book (located in Retail Space 14). The tubing connected to this point was damaged, and required

replacement. The SSDS was shutdown prior to and during sample collection on March 25, 2015, and re-started immediately following the completion of the 8-hour sample collection period.

5.2.2 Ground Water Monitoring

One ground water monitoring well sampling event, including wells MW-4 and MW-5 (Figure 5), was conducted on March 10, 2015. Following submission of the results, the NYSDEC will determine whether to modify or discontinue future groundwater monitoring. The monitoring wells will then be decommissioned following NYSDEC approval.

The wells were purged a minimum of three well volumes, utilizing an electrical submersible pump outfitted with clean, new, vinyl tubing. The purge water was field screened to monitor the pH, dissolved oxygen, turbidity, and conductivity of the purge water. Upon completion of the purging procedures, a new polyethylene disposable bailer was used to collect water samples from wells. Due to the small diameter of well MW-4, samples were collected from the well using a section of new polyethylene tubing, outfitted with a stainless steel check valve at the base.

5.3 Monitoring Program Results

5.3.1 Sub-Slab Vapor, Indoor Air, Soil Vapor and Ambient Air Quality Monitoring Results

The results for the annual vapor sampling event conducted on March 25, 2015 are provided in Table 3, attached. For reference, in addition to providing the analytical results for the March 25, 2015 event, Table 3 provides the analytical results for all vapor sampling events conducted at the Site since 2007 (prior to the startup of the SSDS on July 30, 2009). All data packages were reviewed by a qualified data validator, and a Data Usability Summary Report (DUSR) was prepared. All data was found to be usable without modification. The following sections provide a summary of the March 25, 2015 vapor data results.

Laboratory analytical data sheets are provided in Appendix B. The DUSR is provided in Appendix C.

5.3.1.1 Sub-Slab Vapor Results

As shown in Table 3, the only compound detected in the sub-slab vapor samples was PCE. PCE was detected in all five sub-slab vapor samples collected, with detections ranging from 4.92 µg/m^3 (Unit 14) to 66.3 µg/m^3(Unit 12). Note that PCE decreased from 2,070 µg/m^3 (March 2014) to 66.3 µg/m^3 (March 2015) in the sub-slab sample collected beneath Retail Unit 12. This substantial decrease is attributed to the operation of the additional vertical extraction point which began operation on January 12, 2015 (as described above in Section 4.2.1).

Graphs depicting concentration trends for TCE and PCE in sub-slab vapor samples since 2007 are included in Appendix D.

5.3.1.2 Indoor Air Results

As shown in Table 3, PCE was the only compound detected in the indoor air sample collected from in Retail Unit 12 (wine store) on March 25, 2015 (PCE was detected at a concentration of 3.31 µg/m^3). In indoor air sample IA-Yogurt (Retail Unit 14), 1,2-dichloroethene, PCE, trans-1,2-dichloroethene, and TCE were detected at concentrations of 0.167 µg/m^3, 39.8 µg/m^3, 0.167 µg/m^3, and 0.231 µg/m^3, respectively.

Graphs depicting concentration trends for PCE in indoor air samples since 2007 are included in Appendix D.

5.3.1.3 Soil Vapor and Ambient Air Sample Results

As shown in Table 3, on March 25, 2015 PCE was the only compound detected in soil vapor sample VS-Fence (located outside and behind Unit 13). PCE was detected as 10.7 µg/m^3. Due to a summa canister equipment failure, an ambient air sample was not collected on March 25, 2015.

5.3.1.4 Sub-Slab/Indoor Air Results Evaluation

The sub-slab and indoor air results described above and presented in Table 3 were compared to the NYSDOH Soil Vapor/Indoor Air Matrices for TCE and PCE (Matrix 1 and 2, respectively). A summary of this evaluation is provided below:

Retail Unit	Action Required with Respect to PCE	Action Required with Respect to TCE
Retail Unit 12 (Wine Store)	Take reasonable and practical actions to identify sources and reduce exposure	No Further Action Required
Retail Unit 14 (Yogurt Store)	Take reasonable and practical actions to identify sources and reduce exposure	No Further Action Required

Based on this evaluation, the results indicate that mitigation and monitoring are no longer required at the Site, and as such, the continued operation of the SSDS is not required.

5.3.2 Groundwater Monitoring Results

The results for the ground water monitoring well sampling event conducted on March 10, 2015 are provided in Table 2, attached. For reference, in addition to providing the analytical results for the March 10, 2015 event, Table 2 provides the analytical results for all vapor sampling events conducted at the Site since 2005. All data packages were reviewed by a qualified data validator, and a DUSR was prepared. All data was found to be usable without modification.

As shown in Table 2, all analyzed compounds were reported as non-detect in ground water monitoring well MW-4 since April 2012. The only compound reported in well MW-5 was PCE breakdown product cis-1,2-dichloroethene, at a concentration of 18 µg/l. Laboratory analytical data sheets are provided in Appendix E. The DUSR is provided in Appendix F.

Graphs depicting concentration trends for cis-1,2-dichloroethene in ground water monitoring well MW-5 since 2009 are included in Appendix G.

5.4 Site-Wide Inspection

5.4.1 Inspection Procedures

As presented in the SMP, site-wide inspections will be performed on a regular schedule at a minimum of once a year. Site-wide inspections will also be performed after all severe weather conditions that may affect Engineering Controls or monitoring devices. During these inspections, an inspection form will be completed, for the purpose of compiling sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;

- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection;
- Compliance with permits and schedules included in the Operation and Maintenance Plan; and
- Confirm that Site records are up to date.

5.4.2 Inspection Findings

A site-wide inspection was conducted on March 10, 2015 and included a reconnaissance of the Site exterior and the interior of Unit 13, currently occupied by Sunshine Dry Cleaners. A copy of the Site-Inspection Form is provided in Appendix H and summarized below.

- The Site was found to be in compliance with all ICs, as the Site usage has not changed, ground water beneath the Site is not being used and the remaining contaminated material has not been disturbed.
- The SSDS was operational upon arrival. There were no obvious odors found within either Unit 12, Unit 13 or Unit 14; with the exception of the dry cleaning machine room located within Unit 13. The machine is not currently in-use and odors were only detected upon opening the access door.
- The Site was reported to be in good condition with no foreign debris being identified on the grounds and all structures being of sound construction.
- As noted above, the SSDS was operational at the time of the inspection. The blower was subsequently reported to be non-operational on March 25, 2015.
- A review of the Site records indicated all inspection, operation and maintenance, and monitoring activities have been completed, as outlined in the SMP.
- No additional observations relevant to the remedy were documented.

5.5 Monitoring Plan Compliance Conclusions and Recommendations

The monitoring program completed and described in this Periodic Review Report fully complies with the Monitoring Plan provided in the SMP (with the exception that due to summa canister equipment failure, the ambient air sample was not collected on March 25, 2015).

- Based on the results of the March 25, 2015 vapor samples, there are no triggers for monitoring or mitigation at the Site remaining. As such, Reliance Environmental, Inc. is recommending that the Sub-Slab Vapor, Indoor Air, Soil Vapor and Ambient Air Quality Monitoring program be discontinued. Reliance Environmental, Inc., on behalf of Oceanside Plaza Associates, LLC is seeking NYSDEC concurrence on this recommendation.
- Based upon the consistent non-detect laboratory analytical results in the source area (MW-4) and asymptotic conditions downgradient of the source (MW-5), Reliance Environmental, Inc. on behalf of Oceanside Plaza Associates, LLC, is recommending that the groundwater monitoring component be discontinued. Well abandonment would be performed in accordance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures."

6.0 OPERATION & MAINTENANCE PLAN COMPLIANCE

6.1 Introduction

Section 4.2 of the SMP describes the operation and maintenance (O&M) activities that are to be performed at the Site. These activities include:

- Sub-slab vapor monitoring (described above in Section 5.0);
- Performance monitoring of the SSDS; and
- Inspection and maintenance of the SSDS.

This section details the O&M Plan activities that are currently implemented as part of the SMP to achieve overall effectiveness of the remedy selected for the site.

6.1.1 O&M Plan Requirements

Table 6.1.1 outlines the O&M Plan components as detailed in the SMP.

Table 6.1.1
O&P Plan Components

Component	Frequency
Site Inspection & Maintenance	Monthly
Regulatory Reporting	Annual Periodic Review Report

6.2 Evaluation of O&M Plan Activities

The following sections describe the actions taken to satisfy the O&M components and provide a summary of the current status of the O&M component.

6.2.1 Site Inspection and Maintenance

The Site inspection and routine maintenance activities include visual inspections, operating data collection and general maintenance. Visual inspection is the routine part of the SSDS operator's activities.

The specific routine maintenance tasks completed as part of the SMP are outlined below:

- Inspect SSDS piping to confirm operation of appropriate valves (i.e., dilution valve);
- Inspect vacuum/pressure gauges for proper operation;
- Check and clean air filter on knockout tank; and
- Check for the presence of water in the knockout tank.

The site inspection checklist is included in Appendix H. A summary of the Site Inspection and Maintenance tasks completed during this Periodic Review Report period are provided below.

Date	Major Observations	Follow Up Completed (if applicable)
8/22/2014	System Operational. Vacuum reading comparable to previous inspection rounds.	None required
9/29/2014	System Operational. Vacuum reading comparable to previous inspection rounds.	None required
10/21/2014	System Operational. Vacuum reading comparable to previous inspection rounds.	None required
11/20/2014	System Operational. Vacuum reading comparable to previous inspection rounds.	None required
12/18/2014	System Operational. Vacuum reading comparable to previous inspection rounds.	None required
1/8, 1/9, 1/12/2015	New vertical extraction point installed. This extraction point is brought online on 1/12/2015.	None required
1/13/2015	System Operational. Vacuum reading comparable to previous inspection rounds.	None required
2/19/2015	System Operational. Vacuum reading comparable to previous inspection rounds.	None required
3/18/2015	System Operational. Vacuum reading comparable to previous inspection rounds.	None required
3/25/2015	System Operational. Vacuum reading comparable to previous inspection rounds. Full vapor sampling round completed	None required
4/9/2015*	Blower found to be non-operational	To Be Determined

* - The 4/9/2015 monitoring event was subsequent this Periodic Review Report reporting period (ending 3/25/2015). Per NYSDEC request, as part of this Periodic Review Report the IC/EC certification is being completed through the Periodic Review Report monitoring period of 3/25/2015 (all ICs and ECs were in place and functioning during this period). Currently the SSDS is non-operational due to a faulty blower motor. Based on the current monitoring results, the use of the SSDS is no longer required, and as such, Reliance Environmental, Inc. is recommending that the requirement to operate this SSVS be discontinued.

6.2.3 Regulatory Reporting

Per the SMP, O&M Results are provided in this annual Periodic Review Report.

6.3 O&M Plan Compliance Conclusions and Recommendations

The O&M activities completed as part of this Periodic Review Report comply with the O&M Plan provided in the SMP. ***Reliance Environmental, Inc. is recommending that NYSDEC and NYSDOH approve the permanent shutdown of the SSDS as well as discontinuing the associated inspection, maintenance tasks and vapor monitoring.***

7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

The following sections present conclusions from inspections and maintenance activities and summarize recommendations for modifications the SSDS and the Monitoring Plan and O&M Plan.

7.1 Conclusions

1. The active SSDS has operated during this reporting period (July 1, 2014 through March 25, 2015). Subsequent to this Periodic Review Report reporting period, on April 9, 2015 the SSDS was found to be non-operational due to a faulty blower motor.

2. The IC/ECs were in place, operational and protective of public health and the environment during this reporting period. An IC/EC Certification form for the controls that were in place is included as Appendix A.

3. The sub-slab vapor monitoring point in Retail Unit 12 (current wine store) demonstrated significant reduction in residual PCE concentrations (decreased from 2,070 µg/m^3 in March 2014 to 66.3 µg/m^3 in March 2015). Based on NYSDOH Matrices, mitigation and even monitoring are no longer required at the Site.

4. The March 2015 groundwater sample event further demonstrated non-detect (source area) and asymptotic (down-gradient) conditions for the contaminants involved.

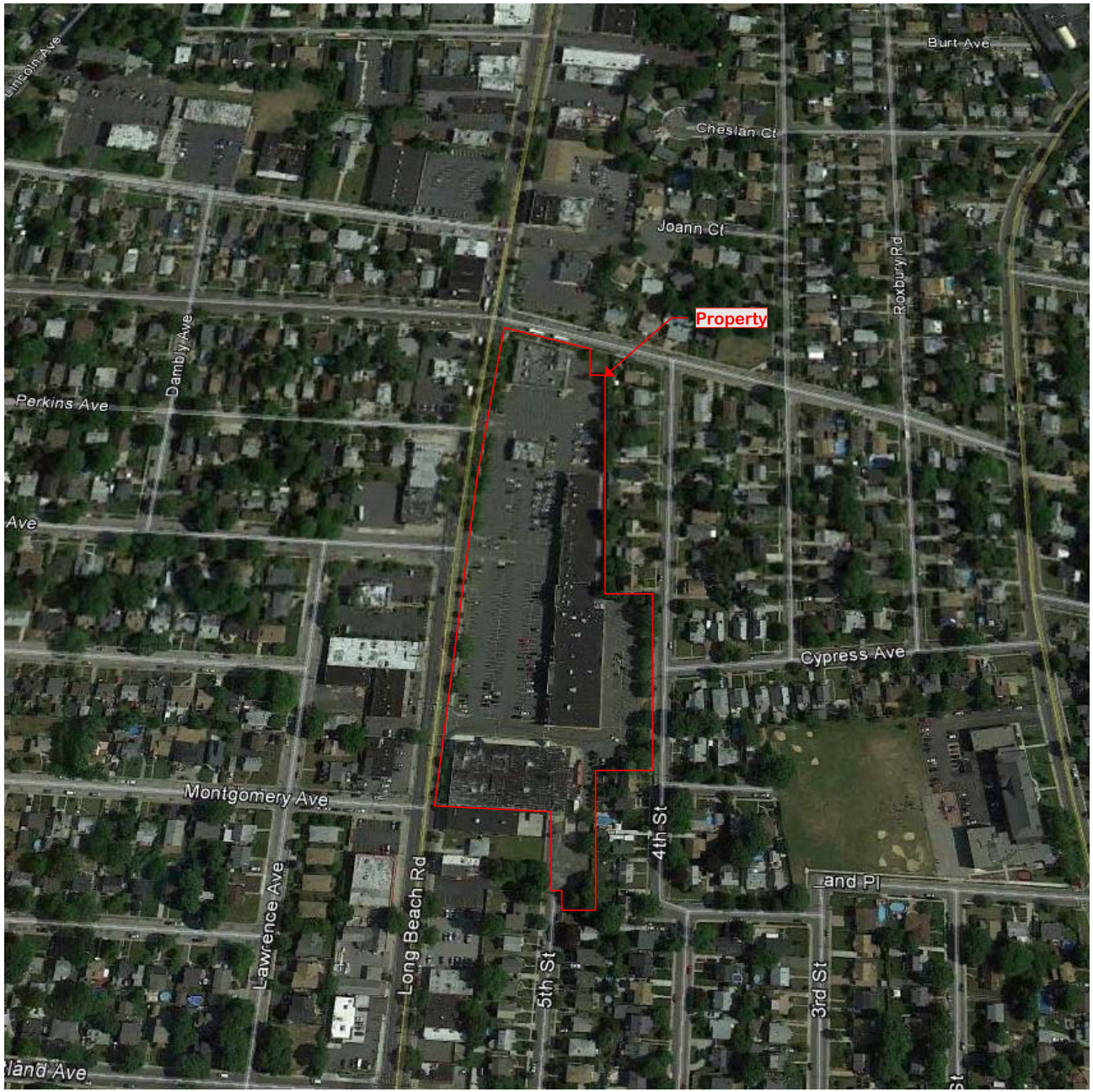
7.2 Recommendations

1. <u>SSDS EC System</u>
   It is recommended that the requirement to operate the SSDS EC be terminated and the associated EC inspection, maintenance tasks and vapor monitoring tasks be discontinued. This recommendation is based on the overall documented effectiveness of the SSDS system. When evaluated using the NYSDOH Soil Vapor/Indoor Air Matrices, the data indicate there is no longer a need for vapor mitigation or monitoring at the Site.

2. <u>Groundwater Monitoring Termination</u>
   a. It is recommended that the groundwater monitoring program be terminated, based on the non-detect and asymptotic patterns demonstrated, as presented in this report.

   b. Following NYSDEC concurrence, it is recommended that the existing groundwater monitoring wells be properly abandoned/closed in compliance with NYSDEC's "Groundwater Monitoring Well Decommissioning Procedures."

FIGURES



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235 North Duke Street, Lancaster, PA 17602
Phone: (717) 735-9508 / Fax: (717) 735-9509
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Figure 1:
Site Location Map

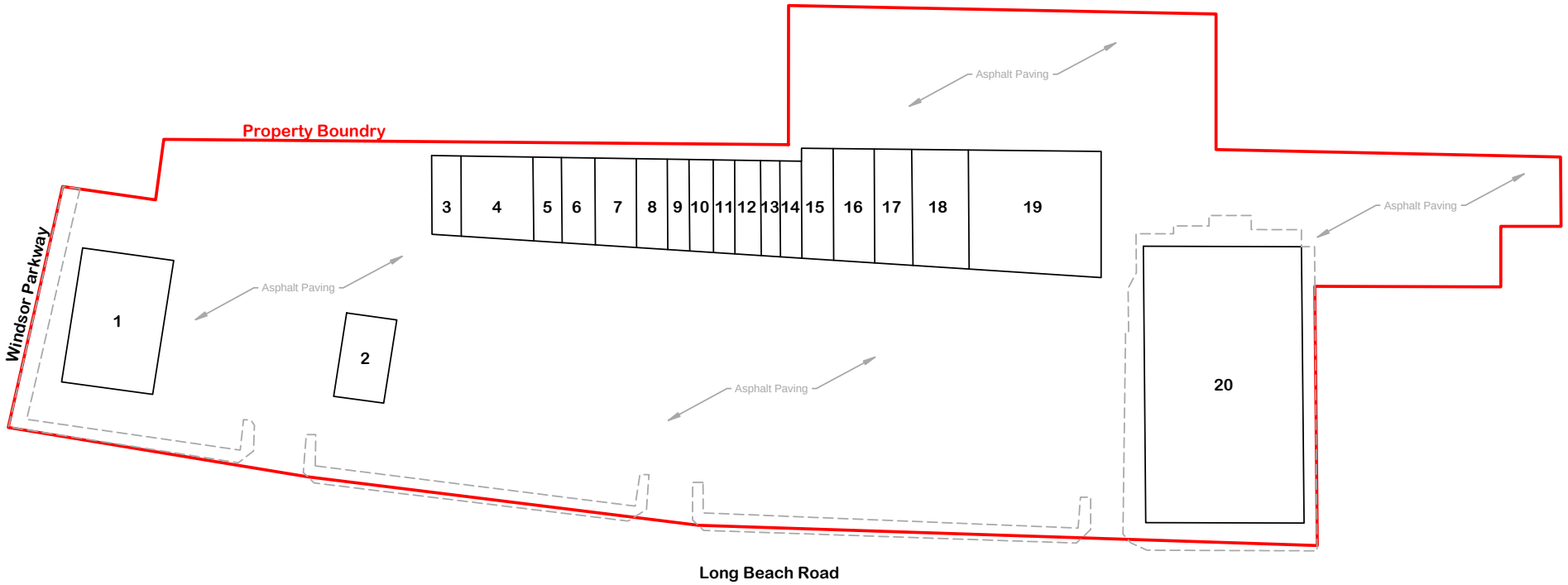
Google Earth (June 17, 2010)

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Scale: 1" = 350'



1 : Buffalo Wild Wings/Corner Bakery
2 : Capital One Bank
3 : Massage Envy
4 : Capri Nail & Spa
5 : Chipotle Mexican Grill
6 : Chipotle Mexican Grill
7 : Gamestop
8 : AT&T Wireless
9 : Protass
10 : Temptations Boutique
11 : Nassau Vision
12 : Vino 100
13 : Sunshine Dry Cleaners
14 : Swirls & Twirls Yogurt
15 : Kravit Jewlers
16 : Italian Restaurant
17 : Jos. A Bank
18 : Citibank
19 : Rite Aid
20 : TJ Maxx

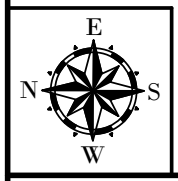


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Figure 2:
Retail Spaces and Site Boundaries

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Not to Scale

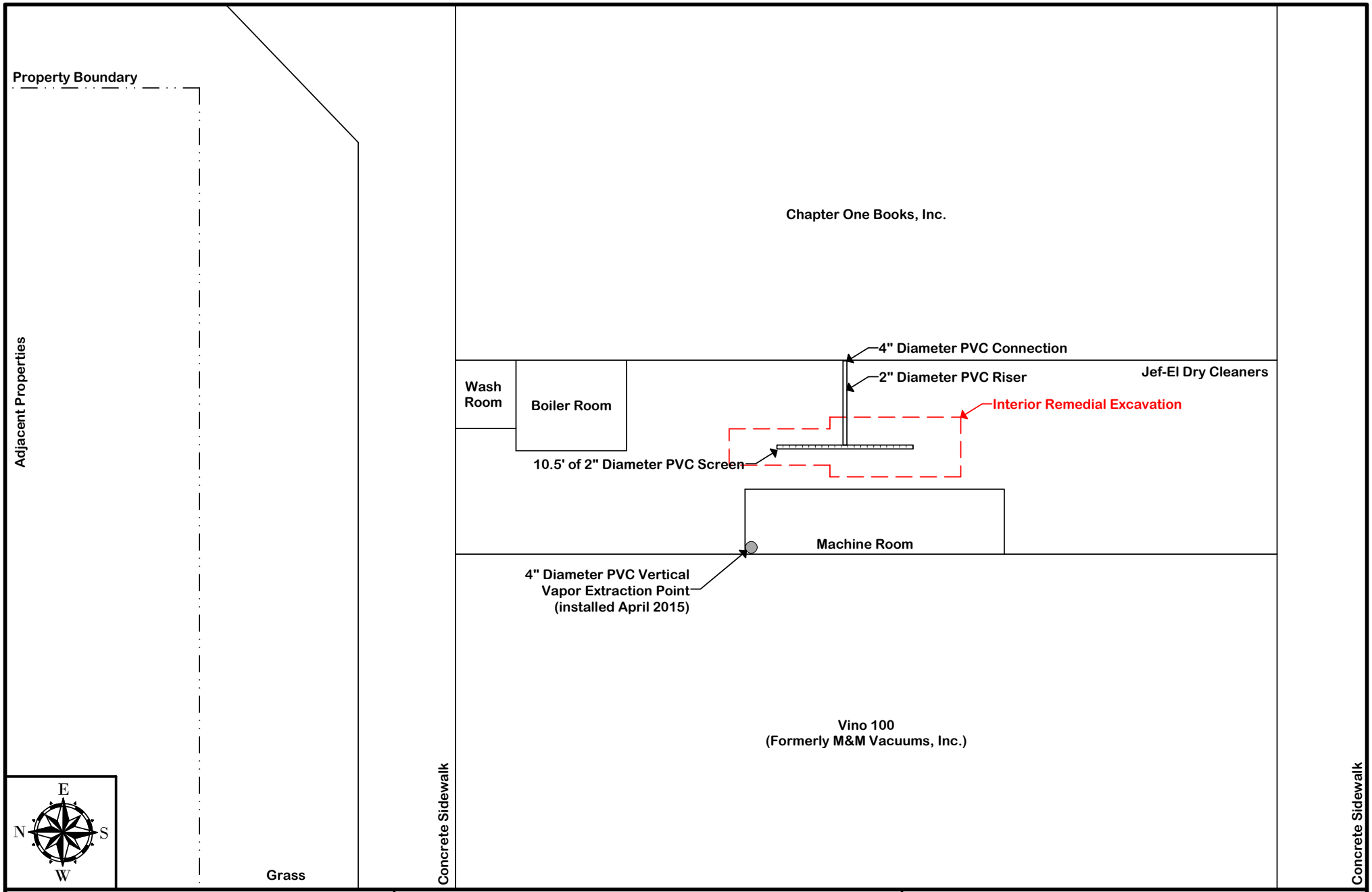

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Figure 3: Location of Remedial Treatment Systems

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Scale : 1" = 10'

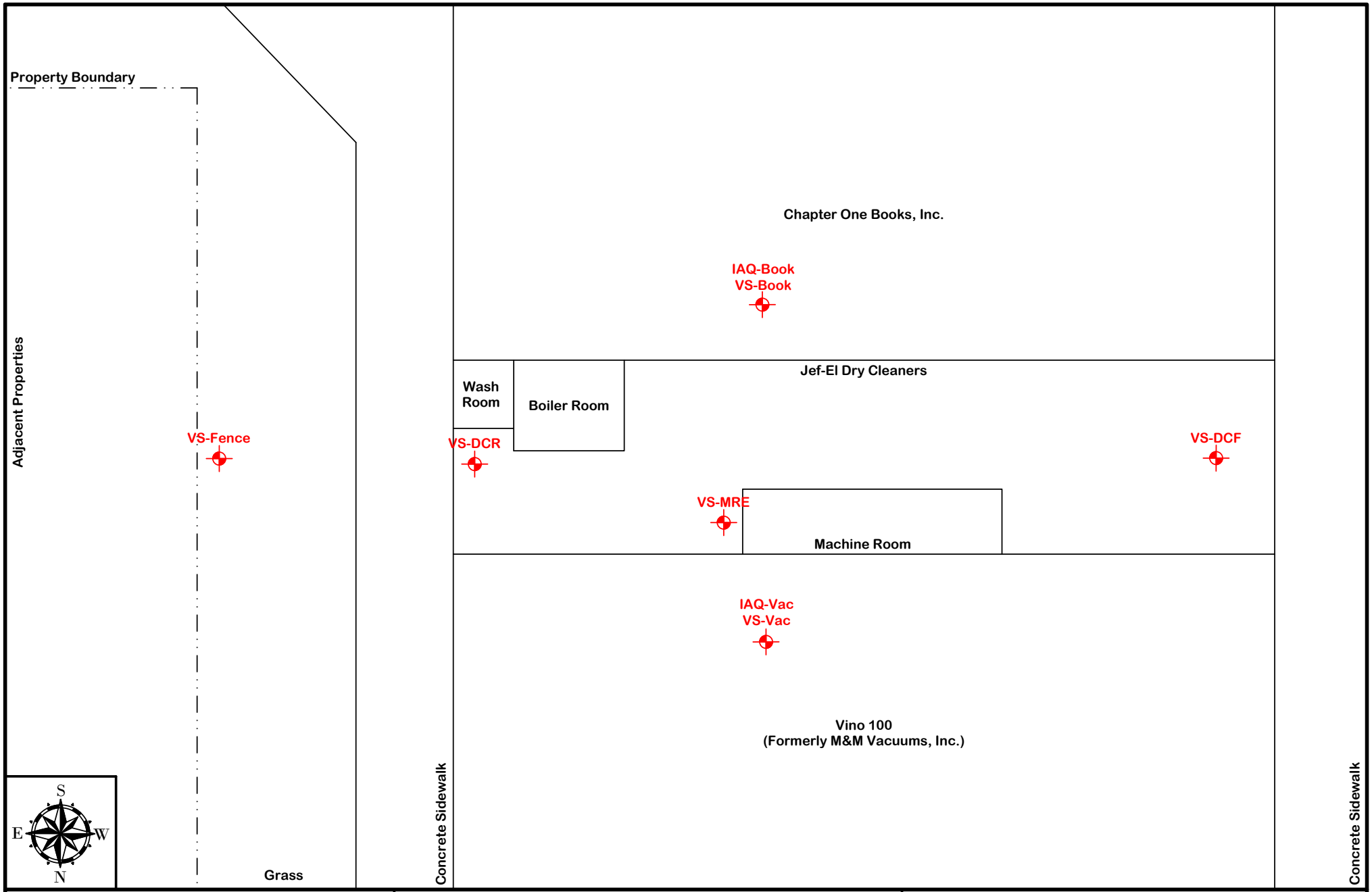

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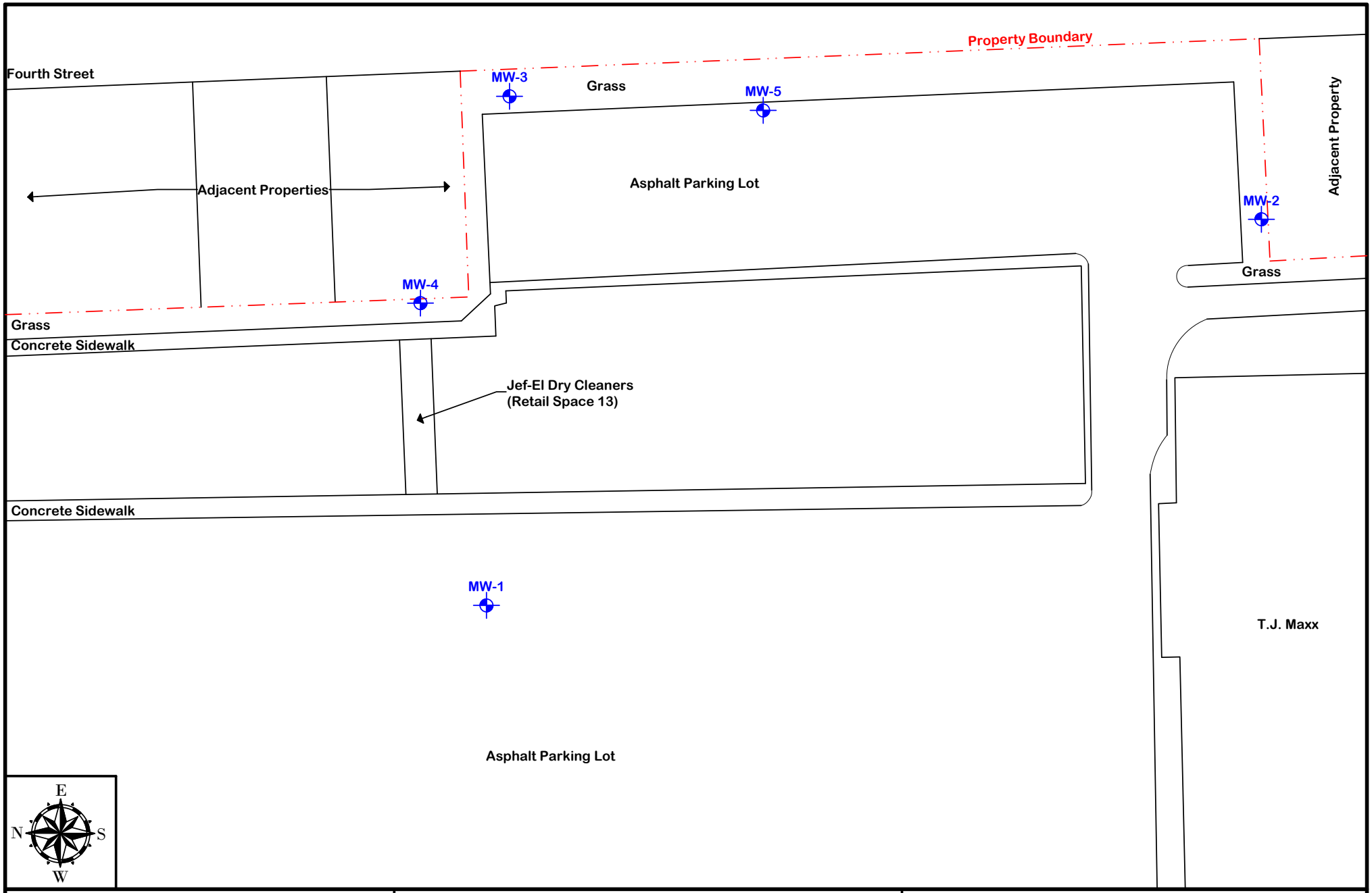
Figure 4:
Sub-Slab Vapor and Indoor Air Quality Sample Location Map

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Scale: 1" = 10'



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Phone: (717) 735-9508 / Fax: (717) 735-9509
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Figure 5:
Ground Water Monitoring Well Location Map

Oceanside Plaza

3131-3221 Long Beach Road, Oceanside, NY

Town of Hempstead, Nassau County

Scale: 1" = 60'

TABLES

TABLE 1
Remedial Investigation Soil Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Sample ID	Sample Date	Sample Depth (feet)	1,1-Dichloroethene (mg/kg)	cis-1,2-Dichloroethene (mg/kg)	Tetrachloroethene (mg/kg)	Toluene (mg/kg)	Trichloroethene (mg/kg)	Vinyl Chloride (mg/kg)
SCO*	na	na	0.33	0.25	1.3	0.70	0.47	0.02
BK-Ocean-1	7/13/2004	8	ND	ND	ND	ND	ND	ND
BK-Ocean-2	7/13/2004	6	ND	ND	0.51	ND	ND	ND
BK-Ocean-3	7/13/2004	6	ND	ND	0.67	ND	ND	ND
BK-Ocean-4	7/13/2004	2	ND	ND	**85**	ND	0.11	ND
BKO-1	2/23/2005	1	ND	ND	0.41	ND	ND	ND
		3	ND	ND	0.075	ND	ND	ND
BKO-2	2/23/2005	1	ND	ND	0.20	ND	ND	ND
		3	ND	ND	0.14	ND	ND	ND
BKO-3	2/23/2005	1	ND	ND	**1.6**	ND	0.0017	ND
		3	ND	ND	0.057	ND	ND	ND
		7	ND	ND	0.016	ND	ND	ND
BKO-SB1**	10/1/2007	3	ND	ND	ND	**4.1**	ND	ND
BKO-SB2	10/1/2007	18	ND	ND	0.52	ND	ND	ND
BKO-SB3	10/1/2007	12	ND	ND	**740**	ND	ND	ND
BKO-SB4	10/1/2007	18	ND	ND	**1,200**	ND	ND	ND
E1	12/20/10	39	ND	ND	ND	ND	ND	ND
		80***	ND	ND	ND	ND	ND	ND
E2	12/20/10	51	ND	ND	0.031	ND	ND	ND
		80***	ND	ND	ND	ND	ND	ND
E3	12/20/10	42	ND	ND	0.005	ND	ND	ND
		80***	ND	ND	ND	ND	ND	ND
E4	7/21/09	42	ND	ND	1.1	ND	ND	ND
E5	7/21/09	18	ND	ND	1.3	ND	ND	ND
E6	12/20/10	24	ND	ND	0.022	ND	ND	ND
		80***	ND	ND	0.019	ND	ND	ND

* = Track 1 - Unrestricted Use Soil Cleanup Objectives (Chapter 4, Subpart 375-6, Table 375-6.8(a))
** = Collected from strom water dry well located in the eastern parking lot.
*** - Sample collected at the soil/water interface.

na = Not Applicable.
ND = Non Detect.
BOLD = Exceeds the Track 1 Soil Cleanup Objectives.

Reliance Environmental, Inc
Professional Environmental Consulting
235 North Duke Street, Lancaster, PA 17602
Phone: (717) 735-9508 / Fax: (717) 735-9509
www.relianceenv.com

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
		CAS Registry Number	75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
		NYSDEC GWQS[a]	5.0	5.0	5.0	5.0	5.0	2.0	10
MW-1	11/16/2005	5.54	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	5.77	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	5.79	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	6.51	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-2	11/16/2005	6.06	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	**12**
	2/22/2006	6.28	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.23	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	**13**
	10/1/2007	6.99	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-3	11/16/2005	6.53	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	6.74	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.78	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	7.48	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA

NA = Not Analyzed.
All concentrations are reported in µg/l.
[a]Ground Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)
BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
		CAS Registry Number	75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
		NYSDEC GWQS[a]	5.0	5.0	5.0	5.0	5.0	2.0	10
MW-4	11/16/2005	6.60	<2.0	<2.0	**360**	<2.0	<1.0	<2.0	<2.0
	2/22/2006	6.82	<2.0	<2.0	**230**	<2.0	<1.0	<2.0	<2.0
	5/17/2006	6.84	<2.0	<2.0	**100**	<2.0	<1.0	<2.0	<2.0
	10/1/2007	7.57	<5.0	<5.0	**110**	<5.0	<5.0	<5.0	NA
	7/21/2009	6.90	<0.8	<0.8	**77**	<0.8	<1.0	<1.0	NA
	10/7/2009	7.33	<5.0	<5.0	**21**	<5.0	<5.0	<5.0	NA
	1/21/2010	7.09	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	5.95	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	7.53	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	7.05	<5.0	<5.0	**11**	<5.0	<5.0	<5.0	NA
	7/19/2011	7.49	<5.0	<5.0	**10**	<5.0	<5.0	<5.0	NA
	10/26/2011	7.00	<5.0	<5.0	**10**	<5.0	<5.0	<5.0	NA
	1/24/2012	7.13	<5.0	<5.0	**11**	<5.0	<5.0	<5.0	NA
	4/25/2012	7.23	<5.0	<5.0	**9**	<5.0	<5.0	<5.0	NA
	7/20/2012	7.21	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	7.46	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	7.94	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	7.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.
All concentrations are reported in µg/l.
[a]Ground Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)
BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
		CAS Registry Number	75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
		NYSDEC GWQS[a]	5.0	5.0	5.0	5.0	5.0	2.0	10
MW-5	7/21/2009	6.44	<0.8	<0.8	**160**	<0.8	1.00	<1.0	NA
	10/7/2009	6.88	<5.0	**54**	**74**	<5.0	<5.0	**17**	NA
	1/21/2010	6.64	<5.0	<5.0	**80**	<5.0	<5.0	<5.0	NA
	4/7/2010	5.49	<5.0	<5.0	**37**	<5.0	<5.0	<5.0	NA
	7/22/2010	7.06	<5.0	**74**	**69**	<5.0	<5.0	<5.0	NA
	1/26/2011	6.56	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	7.03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	6.55	<5.0	**57**	**8**	<5.0	<5.0	**13**	NA
	1/24/2012	6.67	<5.0	**80**	**7**	<5.0	<5.0	**10**	NA
	4/25/2012	6.76	<5.0	**11**	**10**	<5.0	<5.0	<5.0	NA
	7/20/2012	6.75	<5.0	**9**	**14**	<5.0	<5.0	<5.0	NA
	10/18/2012	6.99	<5.0	**11**	**10**	<5.0	<5.0	<5.0	NA
	11/13/2013	7.46	<5.0	**13**	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	6.90	<0.5	**18**	2	<0.5	<0.5	0.8	NA

NA = Not Analyzed.
All concentrations are reported in µg/l.
[a]Ground Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)
BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

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		CAS Registry Number	75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
		NYSDEC GWQS[a]	5.0	5.0	5.0	5.0	5.0	2.0	10
Duplicate (MW-4)	10/1/2007	na	<5.0	<5.0	**160**	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	**75**	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	**20**	<5.0	<5.0	<5.0	NA
	1/21/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	**13**	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	**10**	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	**10**	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	**12**	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	**9**	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.
All concentrations are reported in µg/l.
[a]Ground Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)
BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
Remedial Investigation Ground Water Contamination Summary
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
		CAS Registry Number	75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
		NYSDEC GWQS[a]	5.0	5.0	5.0	5.0	5.0	2.0	10
Field Blank	11/16/2005	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	<0.8	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/21/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.
All concentrations are reported in µg/l.
[a]Ground Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)
BOLD = Exceeds the Ground Water Quality Standard.

TABLE 2
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3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Monitoring Well	Sample Date	Depth-to Water (feet)	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	MTBE
		CAS Registry Number	75-35-4	156-59-2	127-18-4	156-60-5	79-01-6	75-01-4	1634-04-4
		NYSDEC GWQS[a]	5.0	5.0	5.0	5.0	5.0	2.0	10
Trip Blank	11/16/2005	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	2/22/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	5/17/2006	na	<2.0	<2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	10/1/2007	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/21/2009	na	<0.8	<0.8	<0.8	<0.8	<1.0	<1.0	NA
	10/7/2009	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/21/2020	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/7/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/22/2010	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/19/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/26/2011	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	1/24/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	4/25/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	7/20/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	10/18/2012	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/13/2013	na	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	3/10/2015	na	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA

NA = Not Analyzed.
All concentrations are reported in µg/l.
[a]Ground Water Quality Standards (Chapter X, Part 703, §703.5, Table 1)
BOLD = Exceeds the Ground Water Quality Standard.

TABLE 3
Remedial Investigation Soil Vapor Data
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Sample Location	Sample Date	1,1-Dichloroethene ($\mu g/m^3$)	1,2-Dichloroethene ($\mu g/m^3$)	cis-1,2-Dichloroethene ($\mu g/m^3$)	Tetrachloroethene ($\mu g/m^3$)	trans-1,2-Dichloroethene ($\mu g/m^3$)	Trichloroethene ($\mu g/m^3$)	Vinyl Chloride ($\mu g/m^3$)
Indoor Air Quality								
Air Guideline Value*		DNE	DNE	DNE	30	DNE	5	DNE
Chapter One Books, Inc. (Retail Space 14)	12/6/2007	0.63U	0.63U	0.63U	**88**	0.63U	**5.9**	0.41U
	9/2/2009	2U	2U	2U	**500**	2U	2.7U	1.3U
	10/28/2009	0.63U	0.63U	0.63U	11	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	2.3	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	**32**	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	8.1	0.79U	0.33	0.51U
	3/20/2014	0.079U	0.099	0.079U	2.62	0.099	0.134	0.051U
	3/25/2015	0.079U	0.167	0.079U	39.8	0.167	0.231	0.051U
Vino 100 (Retail Space 12)	12/6/2007	0.63U	0.63U	0.63U	2.6	0.63U	0.86U	0.41U
	9/2/2009	4U	4U	4U	**880**	4U	5.4U	2.6U
	10/28/2009	0.63U	0.63U	0.63U	7.5	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	5.2	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	28	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	13	0.79U	0.21U	0.51U
	3/20/2014	0.079U	0.079U	0.079U	3.4	0.079U	0.107U	0.051U
	3/25/2015	0.079U	0.079U	0.079U	3.31	0.079U	0.107U	0.051U
Sub-Slab Vapor								
Chapter One Books, Inc. (Retail Space 14)	12/6/2007	48U	48U	48U	8,100	48U	64U	31U
	10/28/2009	0.63U	0.63U	0.63U	2.5	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	467	0.79U	7	0.51U
	3/1/2012	3.2U	3.1U	3.2U	232	3.2U	1.2	2U
	12/18/2012	3.2U	3.1U	3.2U	131	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	187	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	4.92	0.793U	1.07U	0.511U

* = NYSDOH “Guidance for Evaluating Soil Vapor Intrusion in the State of New York” (Indoor Air Quality Only).
** = Ambient air quality sample.
BOLD = Exceeds the Air Guideline Value.
DNE = Does Not Exist.

TABLE 3
Remedial Investigation Soil Vapor Data
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Sample Location	Sample Date	1,1-Dichloroethene ($\mu g/m^3$)	1,2-Dichloroethene ($\mu g/m^3$)	cis-1,2-Dichloroethene ($\mu g/m^3$)	Tetrachloroethene ($\mu g/m^3$)	trans-1,2-Dichloroethene ($\mu g/m^3$)	Trichloroethene ($\mu g/m^3$)	Vinyl Chloride ($\mu g/m^3$)
Sub-Slab Vapor								
Vino 100 (Retail Space 12)	12/6/2007	120U	120U	120U	18,000	120U	160U	77U
	10/28/2009	0.63U	0.63U	0.63U	2.4	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	4,180	0.79U	78.5	0.51U
	3/1/2012	44U	43U	44U	21,100	44U	97.8	28U
	12/18/2012	13U	13U	13U	9,830	13U	36U	8.2U
	3/20/2014	3.96U	3.96U	3.96U	2,070	3.96U	11.8	2.56U
	3/25/2015	0.793 U	0.793 U	0.793 U	66.3	0.793 U	1.07 U	0.511 U
Jef-El Dry Cleaners (DCF) (Retail Space 13)	12/6/2007	1.2U	1.2U	1.2U	350	1.2U	2.5	0.77U
	10/28/2009	0.63U	0.63U	0.63U	2.2	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	150	0.79U	2.6	0.51U
	3/1/2012	3.2U	3.1U	3.2U	766	3.2U	3.7	2U
	12/18/2012	3.2U	3.1U	3.2U	11	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	4.62	0.793U	1.07U	0.511U
	3/25/2015	0.793 U	0.793U	0.793U	21.9	0.793U	1.07U	0.511U
Jef-El Dry Cleaners (DCR) (Retail Space 13)	12/6/2007	320U	320U	320U	81,000	320U	430U	200U
	10/28/2009	0.63U	0.63U	0.63U	2.9	0.63U	0.86U	0.41U
	1/13/2012	0.79U	0.79U	0.79U	3,480	0.79U	21	0.51U
	3/1/2012	3.2U	3.1U	3.2U	1,990	3.2U	2.2	2U
	12/18/2012	3.2U	3.1U	3.2U	164	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	148	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	8.88	0.793U	1.07U	0.511U

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** = Ambient air quality sample.
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DNE = Does Not Exist.

TABLE 3
Remedial Investigation Soil Vapor Data
Oceanside Plaza (NYSDEC Site Number: C130158)
3131-3221 Long Beach Road, Town of Hempstead, Nassau County, New York

Sample Location	Sample Date	1,1-Dichloroethene ($\mu g/m^3$)	1,2-Dichloroethene ($\mu g/m^3$)	cis-1,2-Dichloroethene ($\mu g/m^3$)	Tetrachloroethene ($\mu g/m^3$)	trans-1,2-Dichloroethene ($\mu g/m^3$)	Trichloroethene ($\mu g/m^3$)	Vinyl Chloride ($\mu g/m^3$)
Sub-Slab Vapor								
Jef-El Dry Cleaners (MRE) (Retail Space 13)	12/6/2007	280U	280U	280U	50,000	280U	380	180U
	9/4/2009	3.2U	3.2U	3.2U	37	3.2U	51	2U
	10/28/2009	0.63U	0.63U	0.63U	2.5	0.63U	15	0.41U
	1/13/2012	0.79U	0.79U	0.79U	1,080	0.79U	56.4	0.51U
	3/1/2012	3.2U	3.1U	3.2U	902	3.2U	3.5	2U
	12/18/2012	3.2U	3.1U	3.2U	205	3.2U	0.86U	2U
	3/20/2014	1.98U	1.98U	1.98U	963	1.98U	9.14	1.28U
	3/25/2015	0.793 U	0.793 U	0.793 U	23.2	0.793 U	1.07 U	0.511 U
Jef-El Dry Cleaners (Fence) (Retail Space 13)	12/6/2007	1.2U	1.2U	1.2U	240	1.2U	1.6U	0.77U
	1/13/2012	0.79U	0.79U	0.79U	46	0.79U	0.39	0.51U
	3/1/2012	3.2U	3.1U	3.2U	224	3.2U	0.86U	2U
	12/18/2012	3.2U	3.1U	3.2U	1.1U	3.2U	0.86U	2U
	3/20/2014	0.793U	0.793U	0.793U	1.36U	0.793U	1.07U	0.511U
	3/25/2015	0.793U	0.793U	0.793U	10.7	0.793U	1.07U	0.511U
Pizzaiola (Retail Space 13)	6/14/2010	0.63U	0.63U	0.63U	5	0.63U	0.86U	0.41U
Protass (Retail Space 9)	6/14/2010	0.63U	0.63U	0.63U	17	0.63U	0.86U	0.41U
Ambient								
AMB**	12/6/2007	0.63U	0.63U	0.63U	1.1U	0.63U	0.86U	0.41U
	9/2/2009	0.63U	0.63U	0.63U	1.1U	0.63U	0.86U	0.41U
	6/14/2010	0.63U	0.63U	0.63U	13	0.63U	1.40	0.41U
	1/13/2012	0.79U	0.79U	0.79U	0.6	0.79U	0.21U	0.51U
	3/1/2012	0.79U	0.79U	0.79U	0.57	0.79U	0.21U	0.51U
	12/18/2012	0.79U	0.79U	0.79U	1.2	0.79U	0.21U	0.51U

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APPENDIX A
INSTITUTIONAL CONTROL/ENGINEERING CONTROL CERTIFICATION

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C130158

Site Name Oceanside Plaza

Site Address: 3131-3221 Long Beach Road Zip Code: 11572
City/Town: Oceanside
County: Nassau
Site Acreage: 7.5

Reporting Period: ~~April 01, 2014 to April 01, 2015~~
July 2014 to March 25, 2015

	YES	NO
1. Is the information above correct?	☐	☒
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Unrestricted, Residential, Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

See Note Below

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

NOTE: As described in detail in the PRR, the ICs/EC were in place and functioning during reporting period. On April 9, 2015 the EC (SSDS) was found to be non-operational due to an inoperable blower motor. As per NYSDEC direction, this IC/EC Certification is being submitted through the date the EC was known to be operational (March 25, 2015). As described in PRR, based on current site monitoring data, permanent shutdown of the EC (SSDS) is recommended for NYSDEC and NYSDOH consideration.

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C130158 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
43-368-18, 19, 20, 41 thru 45	Oceanside Plaza Associates, LLC	Ground Water Use Restriction Landuse Restriction O&M Plan IC/EC Plan Monitoring Plan Site Management Plan

An environmental easement has been recorded on the property which restricts the use of the property to Restricted Residential use. The use of on-site groundwater is restricted as a source of drinking water or for industrial use without necessary water quality treatment as determined by either the state or local health department. Monitoring of environmental media and operation, maintenance and monitoring of the engineering control must comply with the DEC approved Site Management Plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
43-368-18, 19, 20, 41 thru 45.	Vapor Mitigation

A sub-slab depressurization system was installed to create negative pressure beneath the building's slab and to mitigate soil vapor intrusion in the overlying shopping mall building.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C130158

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michael P. Ratton at 235 N Duke St Lancaster PA 17602
print name print business address

am certifying as Oceanside Plaza Associates, LLC (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

Date 6/3/15

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Charles McGuckin (print name) at Remedial Engineering, P.C., 209 Shafter Street, Islandia, New York 11749 (print business address),

am certifying as a Professional Engineer for the Oceanside Plaza Associates, LLC (Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

6/4/15
Date

APPENDIX B
VAPOR INTRUSION SAMPLING LABORATORY ANALYTICAL DATA SHEETS

www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L1506022

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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0.2 Injected on: 03/28/15 16:36 549
0.5 Injected on: 03/28/15 17:08 560
1.0 Injected on: 03/28/15 17:42 571
5.0 Injected on: 03/28/15 18:14 582
10.0 Injected on: 03/28/15 18:48 589
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Project Name: OCEANSIDE PLAZA
Project Number: 1802.0001Y000

Lab Number: L1506022
Report Date: 04/02/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1506022-01	VS-DCF	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 17:40	03/26/15
L1506022-02	VS-MRE	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 15:53	03/26/15
L1506022-03	VS-DCR	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 16:17	03/26/15
L1506022-04	VS-FENCE	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 18:11	03/26/15
L1506022-05	VS-YOGURT	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 18:21	03/26/15
L1506022-06	VS-YOGURT IA	AIR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 17:22	03/26/15
L1506022-07	VS-WINE STORE	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 18:24	03/26/15
L1506022-08	VS-WINE STORE IA	AIR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 18:26	03/26/15
L1506022-09	CAN 781	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE		03/26/15

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 25, 2015. The canister certification results are provided as an addendum.

Sample Receipt

The canister and flow controller ID numbers for the sample designated VS-WINE STORE IA (L1506022-08) are transposed on the chain of custody form.

The sample designated VS-MRE (L1506022-02) had a RPD for the pre- and post-flow controller calibration check (45% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 9.9 mL/minute; the final flow rate was 15.6 mL/minute. The final pressure recorded by the laboratory of the associated canister was -2.6 inches of mercury.

The sample designated VS-DCR (L1506022-03) had a RPD for the pre- and post-flow controller calibration check (28% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 10.0 mL/minute; the final flow rate was 13.3 mL/minute. The final pressure recorded by the laboratory of the associated canister was -2.5 inches of mercury.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J Anderson Report Date: 04/02/15

Title: Technical Director/Representative

List of Organic Method Qualifiers

Table 1

Qualifier (Q)	Description
B	Entered if the analyte is found in the associated blank as well as the sample.
C	Applied to pesticide results when the identification has been confirmed by GC/MS.
D	Included when the all identified compounds in the analysis are at the secondary dilution factor.
E	Identified compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value, may indicate one of the following, depending on the situation: (1) The reported value is estimated and below the MDL. (2) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero. (3) QC associated with this analyte is within warning limits.
N	Included for TIC that indicate presumptive evidence of a compound.
U	Entered if the analyte was analyzed for, but not detected.
P	Used for a pesticide/Aroclor target analyte when the concentration difference between 2 GC columns is greater than 25%; the lower value is flagged with a “P”.
EMPC	“Estimated Maximum Possible Concentration” – The amount of analyte cannot be accurately quantified, so a maximum concentration has been estimated for the compound.
“XYZ”	“Wildcard” or Laboratory defined qualifier.

Note: Form I allows only one character in each qualifier column. If multiple qualifiers are applicable, please assess qualifier priority in the following order: U, E, J, B, D, C, P, N. Reporting done in the EDD may include multiple qualifiers when applicable, separated by a single space.

(Information obtained from NYSDEC ASP Exhibit B, 7/2005, page 64)

List of Inorganic Method Qualifiers

Table 2

Qualifier	Column (1)	Description
Concentration qualifiers		
B	C	Entered if the reported value was less than the CRDL, but greater than the IDL.
U	C	Entered if the analyte was analyzed for, but not detected.
J	C	Entered if the reported value is estimated and below the MDL.
*	C	Duplicate precision exceeds RPD limit.
M	C	Replicate precision exceeds RPD limit.
"XYZ"	C	"Wildcard" or Laboratory defined qualifier.
Qualifier specific entries		
E	Q	Entered if the reported value is estimated because of the presence of interferences.
Method qualifiers		
A	M	Flame atomic absorption
AS	M	Semi-automated spectrophotometric
AV	M	Automated cold vapor atomic absorption
C	M	Manual spectrophotometric
F	M	Furnace atomic absorption
MS	M	Mass spectrometry (ICP-MS)
NR	M	Analyte is not required to be analyzed
P	M	Inductively coupled plasma (ICP)
" "	M	No data have been entered

(1) The term "Column" is used to indicate under which column heading in the reporting forms that the qualifier will be found under.
Note: Form I allows only one character in each qualifier column. If multiple qualifiers are applicable to column C, please assess qualifier priority in the following order: U, J, B. Reporting done in the EDD may include multiple qualifiers when applicable, separated by a single space.

(Information obtained from NYSDEC ASP Exhibit B, 7/2005, page 65)

Volatile Organics Instruments

Volatile Organics: Jack

Instrument: Agilent 5975MSD	Column Type: RTX-VMS
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 20 Meters
Concentrator: EST Encon	df: 1.00um
Autosampler: EST Centurion	ID: 0.18mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: Quimby

Instrument: Agilent 5973MSD	Column Type: RTX-VMS
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 20 Meters
Concentrator: EST Encon	df: 1.00um
Autosampler: EST Centurion	ID: 0.18mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: Curly

Instrument: Agilent 5972 MSD	Column Type: Restek RTX-502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 40 Meters
Concentrator: Tekmar 3000	df: 1.00 um
Autosampler: Archon	ID: 0.18 mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: Elaine

Instrument: Agilent 5973 MSD	Column Type: Restek RTX-502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 40 Meters
Concentrator: Teledyne Velocity	df: 1.00 um
Autosampler: Teledyne Solatek	ID: 0.18 mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: Gonzo

Instrument: Agilent 5973 MSD	Column Type: Restek RTX-502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 40 Meters
Concentrator: Teledyne Velocity	df: 1.00 um
Autosampler: Teledyne Solatek	ID: 0.18 mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: VOA101

Instrument: Agilent 5975C inert XL MSD	Column Type: Restek RTX-VMS
Trap: EST K Trap (VOACARB 3000)	Column Length: 30 Meters
Concentrator: Encon Evolution	df: 1.40 um
Autosampler: EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Charlie/Voa100/Voa104

Instrument: Agilent 5975C MSD	Column Type: Agilent DB-624
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 25 Meters
Concentrator: Encon Evolution	df: 1.12 um
Autosampler: EST Centurion	ID: 0.20 mm
Purge time: 11 min	Desorb: 2 min

Volatile Organics: M

Instrument: Agilent 6890	Column Type: Restek RTX 502.2
	Column Length: 105 Meters
Concentrator: Tekmar 2016	df: 3.00 um
Autosampler: Tekmar 3100	ID: 0.53 mm

Volatile Organics: L/N

Instrument: Agilent 6890	Column Type: Restek RTX 502.2
	Column Length: 105 Meters
Concentrator: Encon Evolution	df: 3.00 um
Autosampler: EST Centurion	ID: 0.53 mm

Volatile Organics: O/P

Instrument: Agilent 7890A	Column Type: Restek RTX 502.2
	Column Length: 105 Meters
Concentrator: Encon Evolution	df: 3.00 um
Autosampler: EST Centurion	ID: 0.53 mm

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instrument: Agilent 6890 GC / 5975 MSD	Column Type: Restek RTX-1
	Column Length: 60 Meters
Concentrator: Entech 7100A	df: 1.00 um
Autosampler: Entech 7016CA	ID: 0.52 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments

Semivolatile Organics (Acid/Base/Neutral Extractables): Buffy

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (Acid/Base/Neutral Extractables): Juliet/GCMS5/GCMS7

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SIL MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Dakota/Mork

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM: Mindy

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SIL MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

Pesticides/PCB : Pest 11/Pest2/Pest7/Pest12

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek RTX-CLP (Channel A)	df: 0.32 um
Column: Restek RTX-CLPPesticide II (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Pesticides/PCB: Pest 10/ Pest9

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek STX-CLP (Channel A)	df: 0.32 um
Column: Restek STX-CLPPesticide II (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column Type: Restek RTX-1701 (Channel A)	df: 0.25 um
Column Type: Restek RTX-5 (Channel B)	df: 0.25 um
Column Length: 30 Meters (Both)	ID: 0.32 mm (Both)

Petro9

Instrument: Agilent 6890 w/FID	Injection Volume: 1uL
Column: Restek RTX-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.32 mm

EPH Petro10/ Petro11

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX-5-MS	df: 0.25um
Column Length: 30 Meters	ID: 0.32 mm

Explosives

Instrument: Dionex ICS-3000, AS50 Autosampler and PDA-100 detectors.
Injection Volume: 100uL
Column: Phenomenex Synergi 4u Hydro-RP and Luna 5u Phenyl-Hexyl.

GC/MS Forensic Semivolatile Organic Instruments

Semivolatile Organics (ALK-PAH extractables): PAH1/PAH2/PAH3/PAH4

Instrument: Agilent 5973C MSD	Injection volume: 1 ul
Column Type: Phenomenex ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (ALK-PAH extractables): PAH8/PAH9/PAH10/PAH11/PAH12/PAH13/PAH14

Instrument: Agilent 5975C MSD	Injection volume: 1 ul
Column Type: Phenomenex ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (ALK-PAH extractables): PAH17/PAH18/PAH19

Instrument: Agilent 5975C MSD	Injection volume: 1 ul
Column Type: Phenomenex ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

GC/FID Forensic Semivolatile Organic Instruments

Semivolatile Organics (SHC extractables):PAH1/PAH2/PAH3/PAH4/PAH8

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (SHC extractables): FID6 (dual column)/ FID9 (dual column)/ FID17 (dual column)

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (SHC extractables):FID7 (dual column)

Instrument: Agilent 7890N w/FID	Injection Volume: 1uL
Column: Restek RTX-5	df: 0.25um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Form

Laboratory Job number: L1506022

Project Number: 1802.0001Y000

Project Name: OCEANSIDE PLAZA **Received:** 03/26/2015 16:10

Client Account: Roux Associates, Inc. **Received by:** TWM/KB

Samples Delivered by: COURIER **Call Tracker #**

Bill Of Laden N/A **Trackingnum**

Coc Present Present

Container Status Intact **Sample IDs**

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt **Are samples Properly Preserved?** Yes

Initial pH **preserved in house with** **Final pH**

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOHCovering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
N/A	Present/Intact	No	No	-	No	No

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Apr 02 2015, 09:06 pm

Login Number: L1506022
Account: ROUX-NY Roux Associates, Inc.Project: 1802.0001Y000
Received: 26MAR15 Due Date: 02APR15

Sample #	Client ID	Mat	PR	Collected	Container
L1506022-01	VS-DCF	11	S0	25MAR15 17:40	1-Can-6

Analyze for: 1,1-dichloroethene, cis-1,2dichlorethene, trans-1,2-dichloroethene, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, vinyl chloride ASP-B Package Due Date: 04/03/15

ASP-B,CAN-RENT,FLOW-RENT,TO15-LL

Sample #	Client ID	Mat	PR	Collected	Container
L1506022-02	VS-MRE	11	S0	25MAR15 15:53	1-Can-6

Analyze for: 1,1-dichloroethene, cis-1,2dichlorethene, trans-1,2-dichloroethene, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, vinyl chloride Package Due Date: 04/03/15

CAN-RENT,FLOW-RENT,TO15-LL

Sample #	Client ID	Mat	PR	Collected	Container
L1506022-03	VS-DCR	11	S0	25MAR15 16:17	1-Can-6

Analyze for: 1,1-dichloroethene, cis-1,2dichlorethene, trans-1,2-dichloroethene, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, vinyl chloride Package Due Date: 04/03/15

CAN-RENT,FLOW-RENT,TO15-LL

Sample #	Client ID	Mat	PR	Collected	Container
L1506022-04	VS-FENCE	11	S0	25MAR15 18:11	1-Can-6

Analyze for: 1,1-dichloroethene, cis-1,2dichlorethene, trans-1,2-dichloroethene, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, vinyl chloride Package Due Date: 04/03/15

CAN-RENT,FLOW-RENT,TO15-LL

Sample #	Client ID	Mat	PR	Collected	Container
L1506022-05	VS-YOGURT	11	S0	25MAR15 18:21	1-Can-6

Analyze for: 1,1-dichloroethene, cis-1,2dichlorethene, trans-1,2-dichloroethene, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, vinyl chloride Package Due Date: 04/03/15

CAN-RENT,FLOW-RENT,TO15-LL

Sample #	Client ID	Mat	PR	Collected	Container
L1506022-06	VS-YOGURT IA	10	S0	25MAR15 17:22	1-Can-6

Analyze for: 1,1-dichloroethene, cis-1,2dichlorethene, trans-1,2-dichloroethene, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, vinyl chloride Package Due Date: 04/03/15

CAN-RENT,FLOW-RENT,TO15-SIM

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Apr 02 2015, 09:06 pm

Login Number: L1506022

Account: ROUX-NY Roux Associates, Inc.Project: 1802.0001Y000

Received: 26MAR15 Due Date: 02APR15

Sample #	Client ID	Mat	PR	Collected	Container
L1506022-07	VS-WINE STORE	11	S0	25MAR15 18:24	1-Can-6

Analyze for: 1,1-dichloroethene, cis-1,2dichlorethene, trans-1,2-dichloroethene, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, vinyl chloride Package Due Date: 04/03/15

CAN-RENT,FLOW-RENT,TO15-LL

L1506022-08	VS-WINE STORE IA	10	S0	25MAR15 18:26	1-Can-6

Analyze for: 1,1-dichloroethene, cis-1,2dichlorethene, trans-1,2-dichloroethene, 1,2-dichloroethene (total), tetrachloroethene, trichloroethene, vinyl chloride Package Due Date: 04/03/15

CAN-RENT,FLOW-RENT,TO15-SIM

L1506022-09	CAN 781	11	S0		1-Can-6

| Package Due Date: 04/03/15

CAN-RENT,CLEAN-FEE,FLOW-RENT

Logged By: Chris Anderson

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 3/27/15

ALPHA Job #: L1506022

Client Information

Client: Roux Associates
Address: 209 Shafter Street
Islandia NY 11749
Phone: 631 232 2600
Fax:
Email: rkovacs@rouxinc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Oceanside Plaza
Project Location: 3131-3221 Long Beach Rd Oceanside
Project #: 1802.0001.4000
Project Manager: Robert Kovacs
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 4/2/15 Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables: NYSDEC Category B
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:
Detection limit: 1 ug/m³ or less

Analyze for:
1,1-dichloroethene
cis-1,2-dichloroethene
Trans-1,2-dichloroethene
1,2-Dichloroethene (total)
Tetrachloroethene
Trichloroethene
Vinyl Chloride

Can: 0079
FC: 781
WERE NOT USED!

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	ANALYSIS TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
06022-01	VS-DCF	3/25/15	0854	1740	-30	-4		SV	6L	1995	0562		X						
-02	VS-MRE		0905	1553	-30	-4		SV	6L	1878	0581		X						
-03	VS-DCR		0935	1617	-32	-4		SV	6L	1642	0298		X						
-04	VS-Fence		0955	1811	-30	-4		SV	6L	1584	0622		X						
-05	VS-Yogurt		1018	1821	-31	-9		SV	6L	2068	4446		X						
-06	VS-Yogurt IA		1027	1722	-28	-3		IA	6L	1877	0074			X					
-07	VS-Wine Store		1042	1824	-30	-9		SV	6L	2002	0221		X						
-08	VS-Wine Store IA		1046	1826	-30	-7		IA	6L	0208	1700			X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions.
See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
	3/26/15 1950		3/26/15 1610
	3/27/15 0110		3-26-15 1950
			3/27/15 0110

Form No: 101-02 (19-Jun-09)

Organics

Volatile Organics in Air
TO-15 Low Level

Volatiles QC Summary

3

LAB DUPLICATE

AIR VOLATILE ORGANICS

Lab Name: Alpha Analytical Labs

SDG No.: L1506022 Matrix: Air

Lab Sample ID : WG772680-5 Injected: 04/01/15 20:45 Lab File ID: R730863

Client Sample ID : IA01-032615

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Dichlorodifluoromethane	0.458	0.332	32*	25
Chloromethane	0.445	0.439	1	25
Freon-114	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	5.43	5.47	1	25
Vinyl bromide	ND	ND	NC	25
Acetone	4.68	4.64	1	25
Trichlorofluoromethane	0.678	0.675	0	25
Isopropanol	ND	ND	NC	25
Tertiary butyl Alcohol	ND	ND	NC	25
Methylene chloride	ND	ND	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
Freon-113	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	0.603	0.604	0	25
Ethyl Acetate	ND	ND	NC	25
Chloroform	ND	ND	NC	25
Tetrahydrofuran	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	0.236	0.270	13	25
Benzene	0.233	0.248	6	25
Cyclohexane	0.707	0.802	13	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropen	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	0.832	0.821	1	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

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FORM III TO15-LL

3

LAB DUPLICATE

AIR VOLATILE ORGANICS

Lab Name: Alpha Analytical Labs

SDG No.: L1506022 Matrix: Air

Lab Sample ID : WG772680-5 Injected: 04/01/15 20:45 Lab File ID: R730863

Client Sample ID : IA01-032615

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	ND	ND	NC	25
p/m-Xylene	ND	ND	NC	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethan	ND	ND	NC	25
o-Xylene	ND	ND	NC	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25
Benzyl chloride	ND	ND	NC	25
1,3-Dichlorobenzene	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25
1,2,4-Trichlorobenzene	ND	ND	NC	25
Naphthalene	0.291	0.283	3	25
Hexachlorobutadiene	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

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FORM III TO15-LL

LAB CONTROL SAMPLE RECOVERY
AIR VOLATILE ORGANICS

Lab Name: Alpha Analytical Labs
SDG No.: L1506022 Matrix: Air
Lab Control Sample: WG772680-3LCS Injected: 04/01/15 13:25 Lab File ID: R730852

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Chlorodifluoromethane	10	NA	7.69	77	-	-	-		70-130
Propylene	10	NA	8.83	88	-	-	-		70-130
Dichlorodifluoromethane	10	NA	8.39	84	-	-	-		70-130
Chloromethane	10	NA	8.39	84	-	-	-		70-130
Freon-114	10	NA	9.16	92	-	-	-		70-130
Methanol	50	NA	37.9	76	-	-	-		70-130
Vinyl chloride	10	NA	8.74	87	-	-	-		70-130
1,3-Butadiene	10	NA	9.35	94	-	-	-		70-130
Butane	10	NA	8.08	81	-	-	-		70-130
Bromomethane	10	NA	8.62	86	-	-	-		70-130
Chloroethane	10	NA	8.77	88	-	-	-		70-130
Ethanol	50	NA	41.6	83	-	-	-		70-130
Dichlorofluoromethane	10	NA	8.02	80	-	-	-		70-130
Vinyl bromide	10	NA	8.98	90	-	-	-		70-130
Acrolein	10	NA	8.20	82	-	-	-		70-130
Acetone	50	NA	46.0	92	-	-	-		70-130
Acetonitrile	10	NA	8.27	83	-	-	-		70-130
Trichlorofluoromethane	10	NA	8.58	86	-	-	-		70-130
Isopropanol	10	NA	9.36	94	-	-	-		70-130
Acrylonitrile	10	NA	8.65	86	-	-	-		70-130
Pentane	10	NA	8.45	84	-	-	-		70-130
Ethyl ether	10	NA	8.18	82	-	-	-		70-130
1,1-Dichloroethene	10	NA	8.51	85	-	-	-		70-130
Tertiary butyl Alcohol	10	NA	8.70	87	-	-	-		70-130
Methylene chloride	10	NA	8.42	84	-	-	-		70-130
3-Chloropropene	10	NA	9.38	94	-	-	-		70-130
Carbon disulfide	10	NA	8.60	86	-	-	-		70-130
Freon-113	10	NA	8.92	89	-	-	-		70-130
trans-1,2-Dichloroethene	10	NA	7.93	79	-	-	-		70-130
1,1-Dichloroethane	10	NA	8.61	86	-	-	-		70-130
Methyl tert butyl ether	10	NA	8.69	87	-	-	-		70-130
Vinyl acetate	10	NA	10.2	102	-	-	-		70-130
2-Butanone	10	NA	8.48	85	-	-	-		70-130
cis-1,2-Dichloroethene	10	NA	9.50	95	-	-	-		70-130
Ethyl Acetate	10	NA	8.86	89	-	-	-		70-130
Chloroform	10	NA	8.65	86	-	-	-		70-130
Tetrahydrofuran	10	NA	8.54	85	-	-	-		70-130
2,2-Dichloropropane	10	NA	8.20	82	-	-	-		70-130
1,2-Dichloroethane	10	NA	8.75	88	-	-	-		70-130
n-Hexane	10	NA	8.61	86	-	-	-		70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III TO15-LL

LAB CONTROL SAMPLE RECOVERY
AIR VOLATILE ORGANICS

Lab Name: Alpha Analytical Labs
SDG No.: L1506022 Matrix: Air
Lab Control Sample: WG772680-3LCS Injected: 04/01/15 13:25 Lab File ID: R730852

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Diisopropyl Ether	10	NA	8.26	83	-	-	-		70-130
tert-Butyl ethyl ether	10	NA	8.10	81	-	-	-		70-130
1,1,1-Trichloroethane	10	NA	9.09	91	-	-	-		70-130
1,1-Dichloropropene	10	NA	8.67	87	-	-	-		70-130
Benzene	10	NA	8.44	84	-	-	-		70-130
Carbon tetrachloride	10	NA	9.51	95	-	-	-		70-130
Cyclohexane	10	NA	8.68	87	-	-	-		70-130
tert-amyl methyl ether	10	NA	8.19	82	-	-	-		70-130
Dibromomethane	10	NA	8.01	80	-	-	-		70-130
1,2-Dichloropropane	10	NA	8.68	87	-	-	-		70-130
Bromodichloromethane	10	NA	8.87	89	-	-	-		70-130
1,4-Dioxane	10	NA	8.68	87	-	-	-		70-130
Trichloroethene	10	NA	8.91	89	-	-	-		70-130
2,2,4-Trimethylpentane	10	NA	8.82	88	-	-	-		70-130
Methyl Methacrylate	10	NA	8.95	90	-	-	-		70-130
Heptane	10	NA	8.72	87	-	-	-		70-130
cis-1,3-Dichloropropene	10	NA	9.58	96	-	-	-		70-130
4-Methyl-2-pentanone	10	NA	8.86	89	-	-	-		70-130
trans-1,3-Dichloropropen	10	NA	8.32	83	-	-	-		70-130
1,1,2-Trichloroethane	10	NA	9.17	92	-	-	-		70-130
Toluene	10	NA	8.61	86	-	-	-		70-130
1,3-Dichloropropane	10	NA	8.19	82	-	-	-		70-130
2-Hexanone	10	NA	9.06	91	-	-	-		70-130
Dibromochloromethane	10	NA	8.98	90	-	-	-		70-130
1,2-Dibromoethane	10	NA	8.74	87	-	-	-		70-130
Butyl Acetate	10	NA	8.83	88	-	-	-		70-130
Octane	10	NA	8.41	84	-	-	-		70-130
Tetrachloroethene	10	NA	8.77	88	-	-	-		70-130
1,1,1,2-Tetrachloroethan	10	NA	8.44	84	-	-	-		70-130
Chlorobenzene	10	NA	8.70	87	-	-	-		70-130
Ethylbenzene	10	NA	8.89	89	-	-	-		70-130
p/m-Xylene	20	NA	17.9	90	-	-	-		70-130
Bromoform	10	NA	9.06	91	-	-	-		70-130
Styrene	10	NA	9.17	92	-	-	-		70-130
1,1,2,2-Tetrachloroethan	10	NA	9.00	90	-	-	-		70-130
o-Xylene	10	NA	9.30	93	-	-	-		70-130
1,2,3-Trichloropropane	10	NA	8.29	83	-	-	-		70-130
Nonane	10	NA	8.39	84	-	-	-		70-130
Isopropylbenzene	10	NA	8.90	89	-	-	-		70-130
Bromobenzene	10	NA	8.25	82	-	-	-		70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III TO15-LL

LAB CONTROL SAMPLE RECOVERY
AIR VOLATILE ORGANICS

Lab Name: Alpha Analytical Labs
SDG No.: L1506022 Matrix: Air
Lab Control Sample: WG772680-3LCS Injected: 04/01/15 13:25 Lab File ID: R730852

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
2-Chlorotoluene	10	NA	8.75	88	-	-	-		70-130
n-Propylbenzene	10	NA	8.90	89	-	-	-		70-130
4-Chlorotoluene	10	NA	8.41	84	-	-	-		70-130
4-Ethyltoluene	10	NA	8.71	87	-	-	-		70-130
1,3,5-Trimethylbenzene	10	NA	9.16	92	-	-	-		70-130
tert-Butylbenzene	10	NA	8.93	89	-	-	-		70-130
1,2,4-Trimethylbenzene	10	NA	9.71	97	-	-	-		70-130
Decane	10	NA	8.65	86	-	-	-		70-130
Benzyl chloride	10	NA	9.39	94	-	-	-		70-130
1,3-Dichlorobenzene	10	NA	8.90	89	-	-	-		70-130
1,4-Dichlorobenzene	10	NA	8.99	90	-	-	-		70-130
sec-Butylbenzene	10	NA	8.83	88	-	-	-		70-130
p-Isopropyltoluene	10	NA	8.59	86	-	-	-		70-130
1,2-Dichlorobenzene	10	NA	9.02	90	-	-	-		70-130
n-Butylbenzene	10	NA	9.20	92	-	-	-		70-130
1,2-Dibromo-3-chloroprop	10	NA	8.68	87	-	-	-		70-130
Undecane	10	NA	9.02	90	-	-	-		70-130
Dodecane	10	NA	9.38	94	-	-	-		70-130
1,2,4-Trichlorobenzene	10	NA	9.73	97	-	-	-		70-130
Naphthalene	10	NA	9.20	92	-	-	-		70-130
1,2,3-Trichlorobenzene	10	NA	8.95	90	-	-	-		70-130
Hexachlorobutadiene	10	NA	9.27	93	-	-	-		70-130

* Values outside of QC limits.

COMMENTS: _____

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FORM III TO15-LL

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

SAMPLE NO.

WG772680-4BLANK

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Lab File ID: R730855 Lab Sample ID: WG772680-4

Date Analyzed: 04/01/15 Time Analyzed: 15:25

Instrument ID: AIRLAB7

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WG772680-3LCS	WG772680-3	R730852	04/01/15 13:25
02	IA01-032615DUP	WG772680-5	R730863	04/01/15 20:45
03	VS-DCF	L1506022-01	R730866	04/01/15 22:23
04	VS-MRE	L1506022-02	R730867	04/01/15 22:57
05	VS-DCR	L1506022-03	R730868	04/01/15 23:30
06	VS-FENCE	L1506022-04	R730869	04/02/15 00:03
07	VS-YOGURT	L1506022-05	R730870	04/02/15 00:36
08	VS-WINE STORE	L1506022-07	R730871	04/02/15 01:09

COMMENTS: _____

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FORM IV TO15-LL LOW

5A
VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Lab File ID: R730764_tune BFB Injection Date: 03/28/15

Instrument ID: AIRLAB7 BFB Injection Time: 14:28

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	26.4
75	30.0 - 66.0% of mass 95	47.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	80.4
175	4.0 - 9.0% of mass 174	5.9 (7.4)1
176	93.0 - 101% of mass 174	77.5 (96.4)1
177	5.0 - 9.0% of mass 176	5.3 (6.8)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.2	0.2	R730768	03/28/15	16:36
02	0.5	0.5	R730769	03/28/15	17:08
03	1.0	1.0	R730770	03/28/15	17:42
04	5.0	5.0	R730771	03/28/15	18:14
05	10	10	R730772	03/28/15	18:48
06	20	20	R730773	03/28/15	19:20
07	50.0	50.0	R730774	03/28/15	19:52
08	100.0	100.0	R730775	03/28/15	20:26
09	ICV Quant	ICV Quant	R730778	03/29/15	10:17

FORM V TO15-LL

5A
VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Lab File ID: R730850_tune BFB Injection Date: 04/01/15

Instrument ID: AIRLAB7 BFB Injection Time: 11:51

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	25
75	30.0 - 66.0% of mass 95	47.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	81.5
175	4.0 - 9.0% of mass 174	6.2 (7.7)1
176	93.0 - 101% of mass 174	81.3 (99.7)1
177	5.0 - 9.0% of mass 176	5.6 (6.8)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL	WG772680-2	R730851	04/01/15	12:25
02	WG772680-3LCS	WG772680-3	R730852	04/01/15	13:25
03	WG772680-4BLANK	WG772680-4	R730855	04/01/15	15:25
04	IA01-032615DUP	WG772680-5	R730863	04/01/15	20:45
05	VS-DCF	L1506022-01	R730866	04/01/15	22:23
06	VS-MRE	L1506022-02	R730867	04/01/15	22:57
07	VS-DCR	L1506022-03	R730868	04/01/15	23:30
08	VS-FENCE	L1506022-04	R730869	04/02/15	00:03
09	VS-YOGURT	L1506022-05	R730870	04/02/15	00:36
10	VS-WINE STORE	L1506022-07	R730871	04/02/15	01:09

FORM V TO15-LL

8A

VOLATILE ORGANICS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Lab File ID (Standard): R730851 Date Analyzed: 04/01/15

Instrument ID : AIRLAB7 Time Analyzed: 12:25

		IS1		IS2		IS3	
		AREA	RT	AREA	RT	AREA	RT
	24 HOUR STD	138435	10.47	232924	12.55	83341	16.83
	UPPER LIMIT	193809	10.80	326094	12.88	116677	17.16
	LOWER LIMIT	83061	10.14	139754	12.22	50005	16.50
	EPA SAMPLE NO.						
01	WG772680-3LCS	139232	10.47	231460	12.56	82134	16.83
02	WG772680-4BLANK	132474	10.47	299696	12.56	71126	16.84
03	WG772680-5DUP	123693	10.47	202556	12.56	60705	16.83
04	VS-DCF	125172	10.47	256209	12.56	66845	16.83
05	VS-MRE	124990	10.47	275975	12.56	64325	16.83
06	VS-DCR	125143	10.47	261280	12.55	64413	16.83
07	VS-FENCE	127602	10.47	284720	12.56	64464	16.83
08	VS-YOGURT	122679	10.47	272105	12.56	60757	16.83
09	VS-WINE STORE	125076	10.47	278285	12.55	66485	16.83

IS1 = BROMOCHLOROMETHANE
IS2 = 1,4-DIFLUOROBENZENE
IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40 % of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

* Values outside of QC limits.

Determination of Method Detection Limits

Alpha Analytical Inc.
Mansfield, MA

Page 1 of 4	
Analyst:	MM, AR
Date:	3/23, 3/24, 4/8/13
Instrument ID:	Airlab7
Column ID:	RTX-1
Prep Method:	N/A
Prep Chemist:	N/A

Method: EPA TO-15 **2013**

GC/MS **Volatile Organic Compounds** **Air**

Initial Weight/Volume: N/A
Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013						
No.	Analytes	Target conc. (ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	Mean (ppbV)	Mean Accuracy	Standard Deviation	Calc. MDL (ppbV)	Current RL (ppbV)	Comment
1	chlorodifluoromethane	0.10	0.055	0.095	0.107	0.111	0.098	0.107	0.107	0.092	0.097	97%	0.018	0.054	0.20	
2	propylene	0.10	0.103	0.085	0.112	0.094	0.083	0.100	0.106	0.058	0.093	93%	0.017	0.052	0.50	
3	propane	0.10	0.141	0.131	0.163	0.115	0.128	0.124	0.140	0.126	0.134	134%	0.015	0.044	0.20	
4	dichlorodifluoromethane	0.10	0.108	0.111	0.113	0.111	0.112	0.113	0.102	0.109	0.110	110%	0.004	0.011	0.20	
5	chloromethane	0.20	0.168	0.222	0.183	0.202	0.189	0.196	0.184	0.179	0.190	95%	0.016	0.049	0.20	
6	Freon-114	0.10	0.110	0.116	0.108	0.105	0.125	0.117	0.109	0.110	0.113	113%	0.006	0.019	0.20	
7	vinyl chloride	0.10	0.065	0.100	0.087	0.091	0.072	0.083	0.076	0.062	0.080	80%	0.013	0.039	0.20	
8	1,3-butadiene	0.10	0.054	0.043	0.058	0.057	0.046	0.079	0.033	0.079	0.056	56%	0.016	0.049	0.20	
9	butane	0.10	0.121	0.111	0.109	0.110	0.108	0.128	0.111	0.083	0.110	110%	0.013	0.039	0.20	
10	acetaldehyde	0.10	0.811	0.979	0.825	0.865	0.913	0.860	0.799	0.839	0.861	861%	0.059	0.178	2.5	
11	bromomethane	0.10	0.085	0.059	0.104	0.051	0.073	0.107	0.078	0.087	0.081	81%	0.020	0.059	0.20	
12	chloroethane	0.10	0.031	0.019	0.035	0.072	0.021	0.021	0.034	0.044	0.035	35%	0.017	0.052	0.20	
13	dichlorofluoromethane	0.10	0.106	0.095	0.105	0.102	0.099	0.096	0.101	0.092	0.100	100%	0.005	0.015	0.20	
14	vinyl bromide	0.10	0.070	0.077	0.045	0.094	0.062	0.079	0.075	0.085	0.073	73%	0.015	0.045	0.20	
15	acrolein	0.10	0.000	0.022	0.027	0.000	0.023	0.000	0.027	0.000	0.012	12%	0.013	0.040	0.50	
16	trichlorofluoromethane	0.10	0.102	0.110	0.105	0.104	0.114	0.105	0.116	0.101	0.107	107%	0.006	0.017	0.20	
17	acrylonitrile	0.10	0.025	0.023	0.011	0.057	0.030	0.015	0.014	0.038	0.027	27%	0.015	0.046	0.20	
18	pentane	0.10	0.111	0.102	0.124	0.121	0.091	0.101	0.105	0.096	0.106	106%	0.012	0.035	0.20	
19	ethyl ether	0.10	0.086	0.091	0.085	0.092	0.111	0.089	0.110	0.097	0.095	95%	0.010	0.031	0.20	
20	1,1-dichloroethene	0.10	0.100	0.084	0.096	0.098	0.090	0.094	0.089	0.091	0.093	93%	0.005	0.016	0.20	
21	tertiary butyl alcohol	0.10	0.096	0.087	0.062	0.105	0.089	0.089	0.101	0.083	0.089	89%	0.013	0.040	0.20	
22	methylene chloride	0.10	0.208	0.193	0.207	0.201	0.187	0.176	0.198	0.176	0.193	193%	0.013	0.038	1.0	
23	3-chloropropene	0.10	0.117	0.099	0.134	0.126	0.105	0.125	0.118	0.106	0.116	116%	0.012	0.036	0.20	
24	carbon disulfide	0.10	0.082	0.085	0.088	0.092	0.093	0.090	0.084	0.087	0.088	88%	0.004	0.012	0.20	
25	Freon 113	0.10	0.112	0.104	0.095	0.097	0.098	0.109	0.114	0.110	0.105	105%	0.007	0.022	0.20	
26	trans-1,2-dichloroethene	0.10	0.082	0.078	0.073	0.113	0.059	0.109	0.085	0.093	0.087	87%	0.018	0.054	0.20	
27	1,1-dichloroethane	0.10	0.110	0.115	0.113	0.136	0.104	0.105	0.085	0.107	0.109	109%	0.014	0.042	0.20	
28	MTBE	0.10	0.119	0.113	0.114	0.122	0.122	0.116	0.076	0.117	0.112	112%	0.015	0.045	0.20	
29	vinyl acetate	0.10	0.105	0.098	0.101	0.107	0.107	0.121	0.094	0.103	0.105	105%	0.008	0.024	0.20	
30	cis-1,2-dichloroethene	0.10	0.096	0.094	0.092	0.083	0.103	0.101	0.096	0.098	0.095	95%	0.006	0.018	0.20	
31	Ethyl Acetate	0.10	0.000	0.000	0.000	0.055	0.024	0.026	0.060	0.042	0.026	26%	0.025	0.074	0.50	
32	chloroform	0.10	0.108	0.100	0.109	0.111	0.106	0.102	0.109	0.089	0.104	104%	0.007	0.022	0.20	
33	Tetrahydrofuran	0.10	0.101	0.100	0.093	0.093	0.095	0.096	0.041	0.089	0.089	89%	0.020	0.059	0.20	
34	2,2-dichloropropane	0.10	0.100	0.099	0.102	0.090	0.089	0.099	0.105	0.096	0.098	98%	0.006	0.017	0.20	
35	1,2-dichloroethane	0.10	0.096	0.084	0.100	0.101	0.094	0.104	0.118	0.094	0.099	99%	0.010	0.029	0.20	
36	hexane	0.10	0.112	0.116	0.121	0.117	0.117	0.119	0.092	0.099	0.112	112%	0.010	0.031	0.20	
37	diisopropyl ether	0.10	0.088	0.110	0.064	0.082	0.095	0.080	0.084	0.080	0.085	85%	0.013	0.040	0.20	
38	tert-butyl ethyl ether	0.10	0.103	0.108	0.106	0.114	0.101	0.104	0.103	0.109	0.106	106%	0.004	0.013	0.20	
39	1,1-dichloropropene	0.10	0.110	0.097	0.092	0.092	0.090	0.086	0.106	0.103	0.097	97%	0.009	0.025	0.20	
40	benzene	0.10	0.104	0.114	0.121	0.099	0.118	0.104	0.121	0.107	0.111	111%	0.009	0.026	0.20	

Comments:

Technical Director: [signature] Date Effective: 4-9-13

Determination of Method Detection Limits

Alpha Analytical Inc.
Mansfield, MA

Page 2 of 4	
Analyst:	MM, AR
Date:	3/23, 3/24, 4/8/13
Instrument ID:	Airlab7
Column ID:	RTX-1
Prep Method:	N/A
Prep Chemist:	N/A

Method: EPA TO-15 **2013**

GC/MS **Volatile Organic Compounds** **Air**

Initial Weight/Volume: N/A

Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating					
		Date Analyzed	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	MDL: 2.998					
No.	Analytes	Target conc. (ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	Mean (ppbV)	Mean Accuracy	Standard Deviation	Calc. MDL (ppbV)	Current RL (ppbV)	Comment
41	thiophene	0.10	0.084	0.088	0.096	0.102	0.097	0.089	0.090	0.090	0.092	92%	0.01	0.02	0.20	
42	carbon tetrachloride	0.10	0.069	0.077	0.103	0.096	0.086	0.079	0.090	0.096	0.087	87%	0.01	0.03	0.20	
43	cyclohexane	0.10	0.107	0.116	0.115	0.114	0.106	0.090	0.100	0.103	0.106	106%	0.01	0.03	0.20	
44	tert-amyl methyl ether	0.10	0.106	0.102	0.107	0.114	0.102	0.100	0.092	0.099	0.103	103%	0.01	0.02	0.20	
45	dibromomethane	0.10	0.097	0.113	0.102	0.106	0.094	0.100	0.085	0.095	0.099	99%	0.01	0.03	0.20	
46	1,2-dichloropropane	0.10	0.124	0.125	0.108	0.123	0.110	0.104	0.108	0.113	0.114	114%	0.01	0.03	0.20	
47	bromodichloromethane	0.10	0.085	0.094	0.087	0.094	0.103	0.087	0.096	0.083	0.091	91%	0.01	0.02	0.20	
48	1,4-dioxane	0.10	0.094	0.086	0.101	0.090	0.068	0.107	0.079	0.046	0.084	84%	0.02	0.06	0.20	
49	trichloroethene	0.10	0.091	0.104	0.108	0.101	0.119	0.103	0.104	0.089	0.102	102%	0.01	0.03	0.20	
50	2,2,4-trimethylpentane	0.10	0.119	0.124	0.118	0.114	0.113	0.112	0.121	0.119	0.118	118%	0.00	0.01	0.20	
51	methyl methacrylate	0.10	0.096	0.107	0.086	0.109	0.110	0.107	0.089	0.100	0.101	101%	0.01	0.03	0.20	
52	heptane	0.10	0.121	0.104	0.125	0.103	0.110	0.113	0.096	0.104	0.110	110%	0.01	0.03	0.20	
53	cis-1,3-dichloropropene	0.10	0.074	0.089	0.081	0.094	0.079	0.083	0.077	0.081	0.082	82%	0.01	0.02	0.20	
54	4-methyl-2-pentanone	0.10	0.104	0.105	0.097	0.104	0.107	0.097	0.097	0.093	0.101	101%	0.01	0.02	0.20	
55	trans-1,3-dichloropropene	0.10	0.065	0.077	0.071	0.079	0.061	0.067	0.064	0.076	0.070	70%	0.01	0.02	0.20	
56	1,1,2-trichloroethane	0.10	0.100	0.095	0.110	0.103	0.093	0.095	0.109	0.090	0.099	99%	0.01	0.02	0.20	
57	toluene	0.10	0.149	0.117	0.124	0.119	0.115	0.110	0.108	0.101	0.118	118%	0.01	0.04	0.20	
58	2-methylthiophene	0.10	0.130	0.099	0.103	0.107	0.095	0.102	0.102	0.074	0.102	102%	0.02	0.05	0.20	
59	1,3-dichloropropane	0.10	0.118	0.110	0.122	0.114	0.102	0.107	0.092	0.088	0.107	107%	0.01	0.04	0.20	
60	2-hexanone	0.10	0.132	0.104	0.105	0.099	0.088	0.094	0.085	0.079	0.098	98%	0.02	0.05	0.20	
61	3-methylthiophene	0.10	0.122	0.117	0.115	0.116	0.103	0.107	0.110	0.078	0.109	109%	0.01	0.04	0.20	
62	dibromochloromethane	0.10	0.093	0.070	0.076	0.083	0.075	0.064	0.068	0.052	0.073	73%	0.01	0.04	0.20	
63	1,2-dibromoethane	0.10	0.113	0.101	0.101	0.099	0.093	0.088	0.090	0.084	0.096	96%	0.01	0.03	0.50	
64	butyl acetate	0.10	0.059	0.073	0.041	0.077	0.032	0.051	0.048	0.028	0.051	51%	0.02	0.05	0.20	
65	octane	0.10	0.131	0.113	0.113	0.121	0.113	0.114	0.100	0.104	0.114	114%	0.01	0.03	0.20	
66	tetrachloroethene	0.10	0.118	0.122	0.116	0.117	0.093	0.098	0.105	0.085	0.107	107%	0.01	0.04	0.20	
67	1,1,1,2-tetrachloroethane	0.10	0.112	0.113	0.091	0.098	0.093	0.084	0.080	0.064	0.092	92%	0.02	0.05	0.20	
68	chlorobenzene	0.10	0.120	0.110	0.115	0.118	0.111	0.106	0.106	0.085	0.109	109%	0.01	0.03	0.20	
69	ethylbenzene	0.10	0.129	0.113	0.119	0.121	0.105	0.101	0.096	0.086	0.109	109%	0.01	0.04	0.20	
70	2-ethylthiophene	0.2	0.119	0.097	0.105	0.112	0.098	0.094	0.097	0.081	0.100	50%	0.01	0.03	0.20	
71	m+p-xylene	0.20	0.285	0.235	0.244	0.239	0.221	0.220	0.212	0.183	0.230	115%	0.03	0.09	0.40	
72	bromoform	0.10	0.081	0.069	0.070	0.055	0.056	0.065	0.059	0.045	0.063	63%	0.01	0.03	0.20	
73	styrene	0.10	0.126	0.112	0.108	0.112	0.103	0.100	0.106	0.091	0.107	107%	0.01	0.03	0.20	
74	1,1,2,2-tetrachloroethane	0.10	0.131	0.126	0.116	0.120	0.112	0.097	0.098	0.095	0.112	112%	0.01	0.04	0.20	
75	o-xylene	0.10	0.153	0.131	0.126	0.134	0.121	0.112	0.111	0.090	0.122	122%	0.02	0.06	0.20	
76	1,2,3-trichloropropane	0.10	0.127	0.118	0.116	0.134	0.115	0.099	0.098	0.092	0.112	112%	0.01	0.04	0.20	
77	nonane	0.10	0.177	0.139	0.150	0.147	0.136	0.136	0.127	0.101	0.139	139%	0.02	0.06	0.20	
78	isopropylbenzene	0.10	0.135	0.119	0.113	0.119	0.100	0.107	0.107	0.087	0.111	111%	0.01	0.04	0.20	
79	bromobenzene	0.10	0.131	0.125	0.124	0.120	0.098	0.102	0.107	0.095	0.113	113%	0.01	0.04	0.20	
80	2-chlorotoluene	0.10	0.129	0.110	0.109	0.116	0.100	0.100	0.098	0.083	0.106	106%	0.01	0.04	0.20	

Comments: _____

Technical Director: _____ Date Effective: 4-9-13

Determination of Method Detection Limits

Alpha Analytical Inc.
Mansfield, MA

Page 3 of 4	
Analyst:	MM, AR
Date:	3/23, 3/24, 4/8/13
Instrument ID:	Airlab7
Column ID:	RTX-1
Prep Method:	N/A
Prep Chemist:	N/A

Method: EPA TO-15 **2013**

GC/MS **Volatile Organic Compounds** **Air**

Initial Weight/Volume: N/A
Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013						
No.	Analytes	Target conc. (ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	Mean (ppbV)	Mean Accuracy	Standard Deviation	Calc. MDL (ppbV)	Current RL (ppbV)	Comment
81	n-propylbenzene	0.10	0.127	0.132	0.113	0.117	0.091	0.093	0.097	0.080	0.106	106%	0.02	0.06	0.20	
82	4-chlorotoluene	0.10	0.141	0.128	0.109	0.114	0.104	0.102	0.102	0.086	0.111	111%	0.02	0.05	0.20	
83	4-ethyl toluene	0.10	0.124	0.112	0.108	0.109	0.099	0.094	0.097	0.082	0.103	103%	0.01	0.04	0.20	
84	1,3,5-trimethylbenzene	0.10	0.127	0.121	0.112	0.110	0.102	0.096	0.095	0.090	0.107	107%	0.01	0.04	0.20	
85	tert-butylbenzene	0.10	0.134	0.126	0.124	0.130	0.114	0.112	0.109	0.093	0.118	118%	0.01	0.04	0.20	
86	1,2,4-trimethylbenzene	0.10	0.134	0.122	0.117	0.123	0.108	0.102	0.099	0.086	0.111	111%	0.02	0.05	0.20	
87	decane	0.10	0.144	0.125	0.128	0.128	0.111	0.111	0.104	0.094	0.118	118%	0.02	0.05	0.20	
88	Benzyl Chloride	0.10	0.079	0.060	0.062	0.059	0.050	0.046	0.045	0.039	0.055	55%	0.01	0.04	0.20	
89	1,3-dichlorobenzene	0.10	0.117	0.107	0.100	0.108	0.089	0.091	0.089	0.074	0.097	97%	0.01	0.04	0.20	
90	1,4-dichlorobenzene	0.10	0.119	0.116	0.113	0.104	0.095	0.095	0.089	0.080	0.101	101%	0.01	0.04	0.20	
91	sec-butylbenzene	0.10	0.134	0.114	0.114	0.121	0.103	0.100	0.097	0.086	0.109	109%	0.02	0.05	0.20	
92	1,2,3-trimethylbenzene	0.10	0.124	0.108	0.110	0.114	0.098	0.094	0.098	0.084	0.104	104%	0.01	0.04	0.20	
93	p-isopropyltoluene	0.10	0.128	0.113	0.114	0.109	0.101	0.096	0.099	0.082	0.105	105%	0.01	0.04	0.20	
94	1,2-dichlorobenzene	0.10	0.110	0.103	0.105	0.102	0.092	0.091	0.090	0.077	0.096	96%	0.01	0.03	0.20	
95	n-butylbenzene	0.10	0.109	0.103	0.105	0.103	0.092	0.093	0.091	0.078	0.097	97%	0.01	0.03	0.20	
96	indan	0.10	0.117	0.108	0.113	0.114	0.107	0.105	0.101	0.078	0.105	105%	0.01	0.04	0.20	
97	indene	0.10	0.110	0.104	0.093	0.095	0.091	0.090	0.083	0.067	0.092	92%	0.01	0.04	0.20	
98	1,2-dibromo-3-chloropropane	0.10	0.128	0.111	0.113	0.109	0.098	0.109	0.085	0.073	0.103	103%	0.02	0.05	0.20	
99	undecane	0.10	0.116	0.108	0.102	0.112	0.085	0.087	0.098	0.073	0.098	98%	0.01	0.04	0.20	
100	1,2,4,5-tetramethylbenzene	0.10	0.126	0.107	0.101	0.108	0.097	0.094	0.091	0.081	0.101	101%	0.01	0.04	0.20	
101	dodecane	0.10	0.050	0.086	0.070	0.023	0.055	0.050	0.069	0.049	0.057	57%	0.02	0.06	0.20	
102	1,2,4-trichlorobenzene	0.10	0.087	0.082	0.070	0.084	0.067	0.068	0.070	0.057	0.073	73%	0.01	0.03	0.20	
103	naphthalene	0.10	0.087	0.085	0.082	0.078	0.080	0.069	0.087	0.057	0.076	76%	0.01	0.03	0.20	
104	1,2,3-trichlorobenzene	0.10	0.092	0.088	0.069	0.062	0.067	0.065	0.055	0.052	0.069	69%	0.01	0.04	0.50	
105	benzothiophene	0.10	0.067	0.072	0.069	0.059	0.058	0.058	0.064	0.047	0.062	62%	0.01	0.02	0.20	
106	hexachlorobutadiene	0.10	0.088	0.100	0.090	0.051	0.068	0.080	0.070	0.062	0.076	76%	0.02	0.05	0.20	

Comments:

Determination of Method Detection Limits

Alpha Analytical Inc.
Mansfield, MA

Page 4 of 4	
Analyst:	MM, AR
Date:	3/23, 3/24, 4/8/13
Instrument ID:	Airlab7
Column ID:	RTX-1
Prep Method:	N/A
Prep Chemist:	N/A

Method: EPA TO-15 **2013**

GC/MS **Volatile Organic Compounds** **Air**

Initial Weight/Volume: N/A
Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	3/24/2013	3/24/2013	3/24/2013	3/24/2013	3/24/2013	3/24/2013	3/24/2013	3/24/2013						
No.	Analytes	Target conc. (ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	Mean (ppbV)	Mean Accuracy	Standard Deviation	Calc. MDL (ppbV)	Current RL (ppbV)	Comment
107	methanol	0.5	1.096	0.965	0.884	0.885	0.985	1.056	0.877	0.901	0.956	191%	0.08	0.25	5.0	
108	ethanol	0.5	0.535	0.507	0.502	0.519	0.502	0.493	0.460	0.467	0.498	100%	0.02	0.07	1.0	
109	acetone	0.5	0.626	0.642	0.611	0.609	0.673	0.654	0.623	0.633	0.634	127%	0.02	0.07	1.0	
110	2-methylnaphthalene	0.50	0.051	0.100	0.204	0.064	0.211	0.231	0.035	0.048	0.118	24%	0.08	0.25	1.0	
111	1-methylnaphthalene	0.50	0.312	0.178	0.399	0.185	0.393	0.364	0.275	0.182	0.286	57%	0.10	0.29	1.0	

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	4/8/2013	4/8/2013	4/8/2013	4/8/2013	4/8/2013	4/8/2013	4/8/2013	4/8/2013						
No.	Analytes	Target conc. (ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	Mean (ppbV)	Mean Accuracy	Standard Deviation	Calc. MDL (ppbV)	Current RL (ppbV)	Comment
112	acetonitrile	0.20	0.230	0.231	0.215	0.191	0.193	0.235	0.198	0.243	0.217	109%	0.02	0.06	0.20	
113	isopropyl alcohol	0.20	0.452	0.473	0.416	0.413	0.408	0.406	0.442	0.431	0.430	215%	0.02	0.07	0.50	
114	2-butanone	0.20	0.236	0.255	0.212	0.225	0.198	0.219	0.224	0.210	0.222	111%	0.02	0.05	0.20	
115	1,1,1-trichloroethane	0.20	0.199	0.193	0.189	0.196	0.195	0.187	0.194	0.170	0.190	95%	0.01	0.03	0.20	

Comments:

Volatiles Sample Data

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-01	Date Collected	: 03/25/15 17:40
Client ID	: VS-DCF	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 22:23
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730866	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	3.23	0.200	--	21.9	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-02	Date Collected	: 03/25/15 15:53
Client ID	: VS-MRE	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 22:57
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730867	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	3.42	0.200	--	23.2	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-03	Date Collected	: 03/25/15 16:17
Client ID	: VS-DCR	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 23:30
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730868	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	1.31	0.200	--	8.88	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-04	Date Collected	: 03/25/15 18:11
Client ID	: VS-FENCE	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/02/15 00:03
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730869	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	1.58	0.200	--	10.7	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-05	Date Collected	: 03/25/15 18:21
Client ID	: VS-YOGURT	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/02/15 00:36
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730870	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	0.726	0.200	--	4.92	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-07	Date Collected	: 03/25/15 18:24
Client ID	: VS-WINE STORE	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/02/15 01:09
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730871	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	9.77	0.200	--	66.3	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: WG772680-4	Date Collected	: NA
Client ID	: WG772680-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/01/15 15:25
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730855	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
115-07-1	Propylene	ND	0.500	--	ND	0.861	--	U
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	2.50	--	ND	4.71	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
108-05-4	Vinyl acetate	ND	0.200	--	ND	0.704	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: WG772680-4	Date Collected	: NA
Client ID	: WG772680-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/01/15 15:25
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730855	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: WG772680-4	Date Collected	: NA
Client ID	: WG772680-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/01/15 15:25
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730855	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Tentatively Identified Compounds
Volatile Organics

Client	: Roux Associates, Inc.	**Lab Number**	: L1506022
Project Name	: OCEANSIDE PLAZA	**Project Number**	: 1802.0001Y000
Lab ID	: WG772680-4	**Date Collected**	: NA
Client ID	: WG772680-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 04/01/15 15:25
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: RY
Lab File ID	: R730855	**Instrument ID**	: AIRLAB7
Sample Amount	: 250 ml	**GC Column**	: RTX-1

Number TICS found: 0 **Concentration Units:**

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	NO TENTATIVELY IDENTIFIED COMPOUNDS			J

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: WG772680-5	Date Collected	: 03/26/15 16:46
Client ID	: IA01-032615DUP	Date Received	: 03/27/15
Sample Location	:	Date Analyzed	: 04/01/15 20:45
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730863	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.332	0.200	--	1.64	0.989	--	
74-87-3	Chloromethane	0.439	0.200	--	0.907	0.413	--	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethyl Alcohol	5.47	2.50	--	10.3	4.71	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.64	1.00	--	11.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.675	0.200	--	3.79	1.12	--	
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
75-65-0	tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.604	0.500	--	1.78	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.270	0.200	--	0.952	0.705	--	
71-43-2	Benzene	0.248	0.200	--	0.792	0.639	--	
110-82-7	Cyclohexane	0.802	0.200	--	2.76	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: WG772680-5	Date Collected	: 03/26/15 16:46
Client ID	: IA01-032615DUP	Date Received	: 03/27/15
Sample Location	:	Date Analyzed	: 04/01/15 20:45
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730863	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.821	0.200	--	3.09	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	0.283	0.200	--	1.48	1.05	--	

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: WG772680-5	Date Collected	: 03/26/15 16:46
Client ID	: IA01-032615DUP	Date Received	: 03/27/15
Sample Location	:	Date Analyzed	: 04/01/15 20:45
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730863	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730866.D
Acq On : 1 Apr 2015 10:23 pm
Operator : AIRLAB7:RY
Sample : L1506022-01,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 06:45:34 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : 5Cl+1,1-DCE - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	125172	10.000	ppbV	0.00
Standard Area = 138435			Recovery = 90.42%			
43) 1,4-difluorobenzene	12.56	114	256209	10.000	ppbV	0.01
Standard Area = 232924			Recovery = 110.00%			
67) chlorobenzene-D5	16.83	54	66845	10.000	ppbV	0.00
Standard Area = 83341			Recovery = 80.21%			
System Monitoring Compounds						
Target Compounds						Qvalue
9) vinyl chloride	0.00		0	N.D.		
26) 1,1-dichloroethene	0.00		0	N.D.		
32) trans-1,2-dichloroethene	0.00		0	N.D.		
37) cis-1,2-dichloroethene	0.00		0	N.D.		
59) trichloroethene	13.32		0	N.D.		
78) tetrachloroethene	16.31	166	48915	3.230	ppbV	96

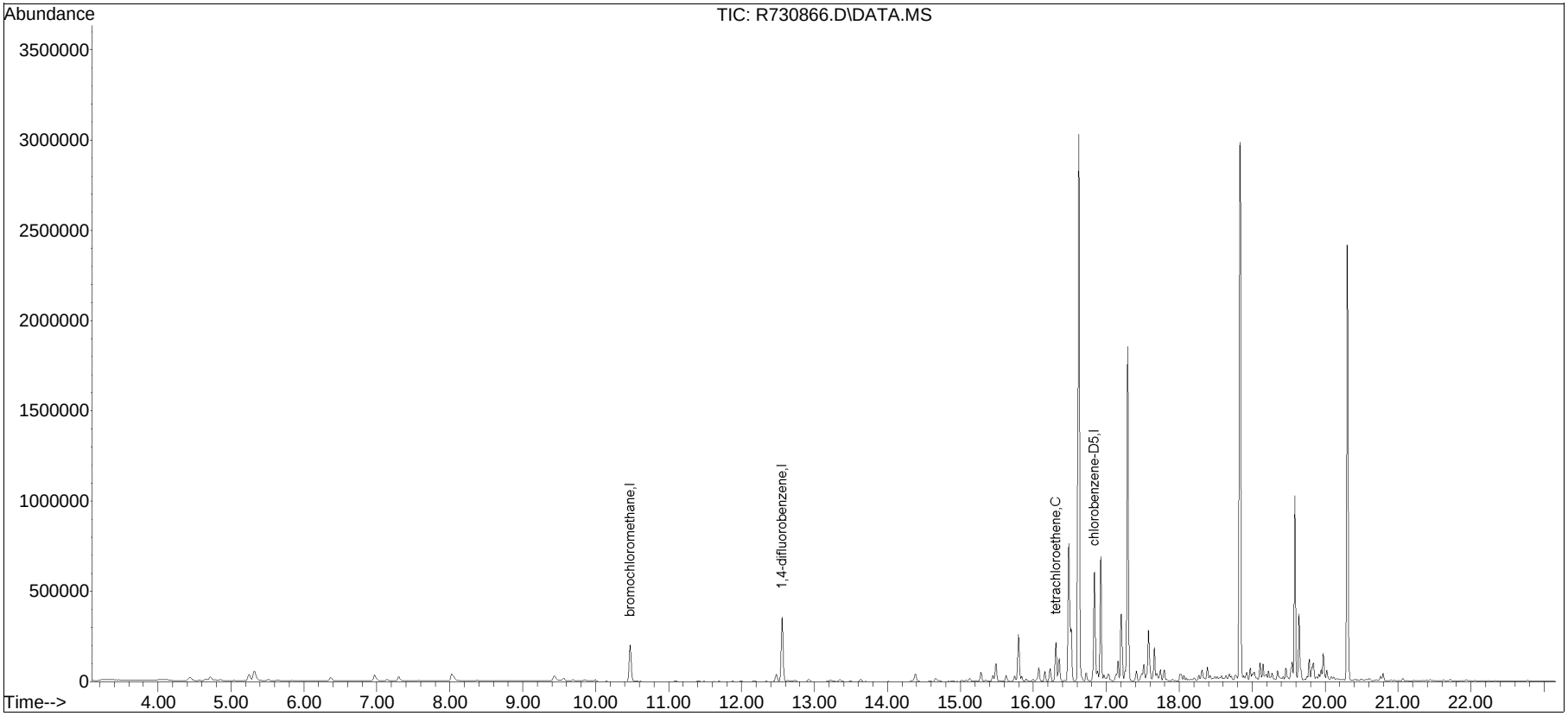
(#) = qualifier out of range (m) = manual integration (+) = signals summed

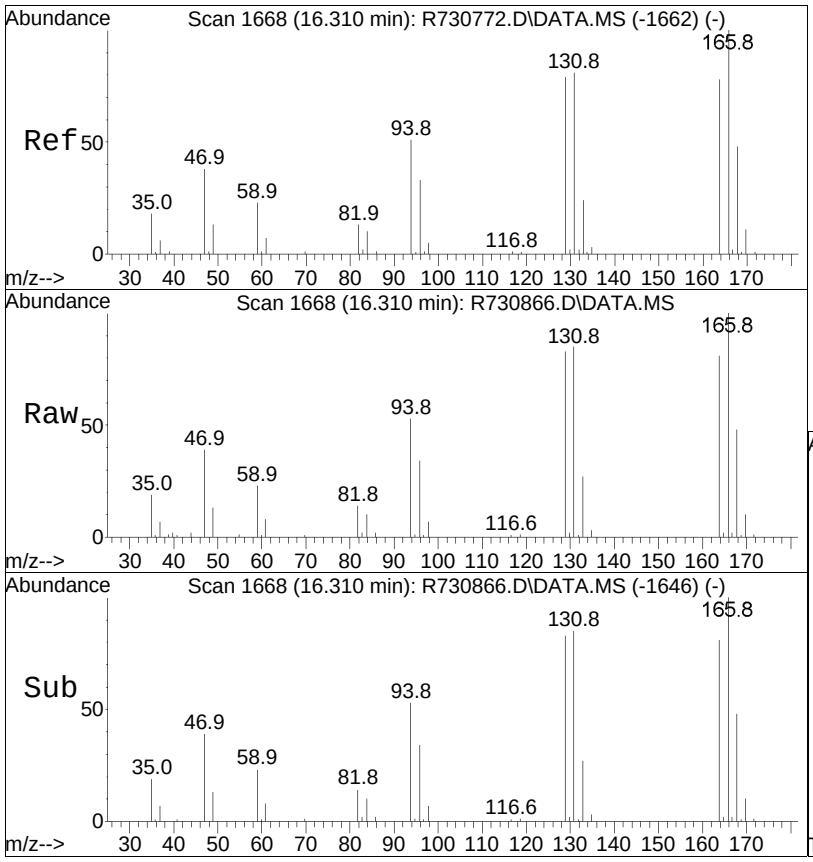
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730866.D
Acq On : 1 Apr 2015 10:23 pm
Operator : AIRLAB7:RY
Sample : L1506022-01,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 06:45:34 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : 5Cl+1,1-DCE - .ta\Airlab7\2015\150401T\R730851.D

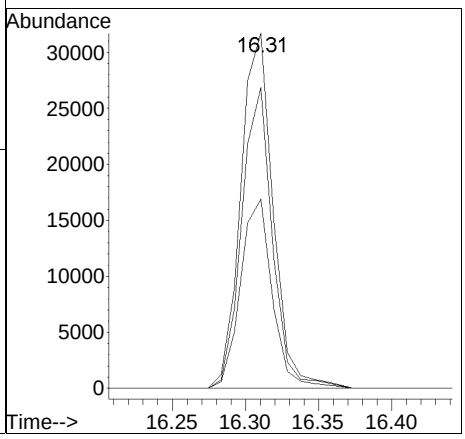




#78
tetrachloroethene
Concen: 3.23 ppbV
RT: 16.31 min Scan# 1668
Delta R.T. 0.000 min
Lab File: R730866.D
Acq: 1 Apr 2015 10:23 pm

Tgt Ion:166 Resp: 48915

Ion	Ratio	Lower	Upper
166	100		
131	84.7	64.5	96.7
94	53.3	40.6	61.0



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TALL150328.M
Data File	: R730866.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 10:23 pm	Instrument	: Airlab 7
Sample	: L1506022-01,3,250,250	Quant Date	: 4/2/2015 6:45 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730867.D
Acq On : 1 Apr 2015 10:57 pm
Operator : AIRLAB7:RY
Sample : L1506022-02,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 06:45:48 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : 5Cl+1,1-DCE - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	124990	10.000	ppbV	0.00
Standard Area = 138435			Recovery = 90.29%			
43) 1,4-difluorobenzene	12.56	114	275975	10.000	ppbV	0.01
Standard Area = 232924			Recovery = 118.48%			
67) chlorobenzene-D5	16.83	54	64325	10.000	ppbV	0.00
Standard Area = 83341			Recovery = 77.18%			
System Monitoring Compounds						
Target Compounds						Qvalue
9) vinyl chloride	0.00		0	N.D.		
26) 1,1-dichloroethene	0.00		0	N.D.		
32) trans-1,2-dichloroethene	9.14		0	N.D.		
37) cis-1,2-dichloroethene	0.00		0	N.D.		
59) trichloroethene	13.32		0	N.D.		
78) tetrachloroethene	16.31	166	49818	3.419	ppbV	95

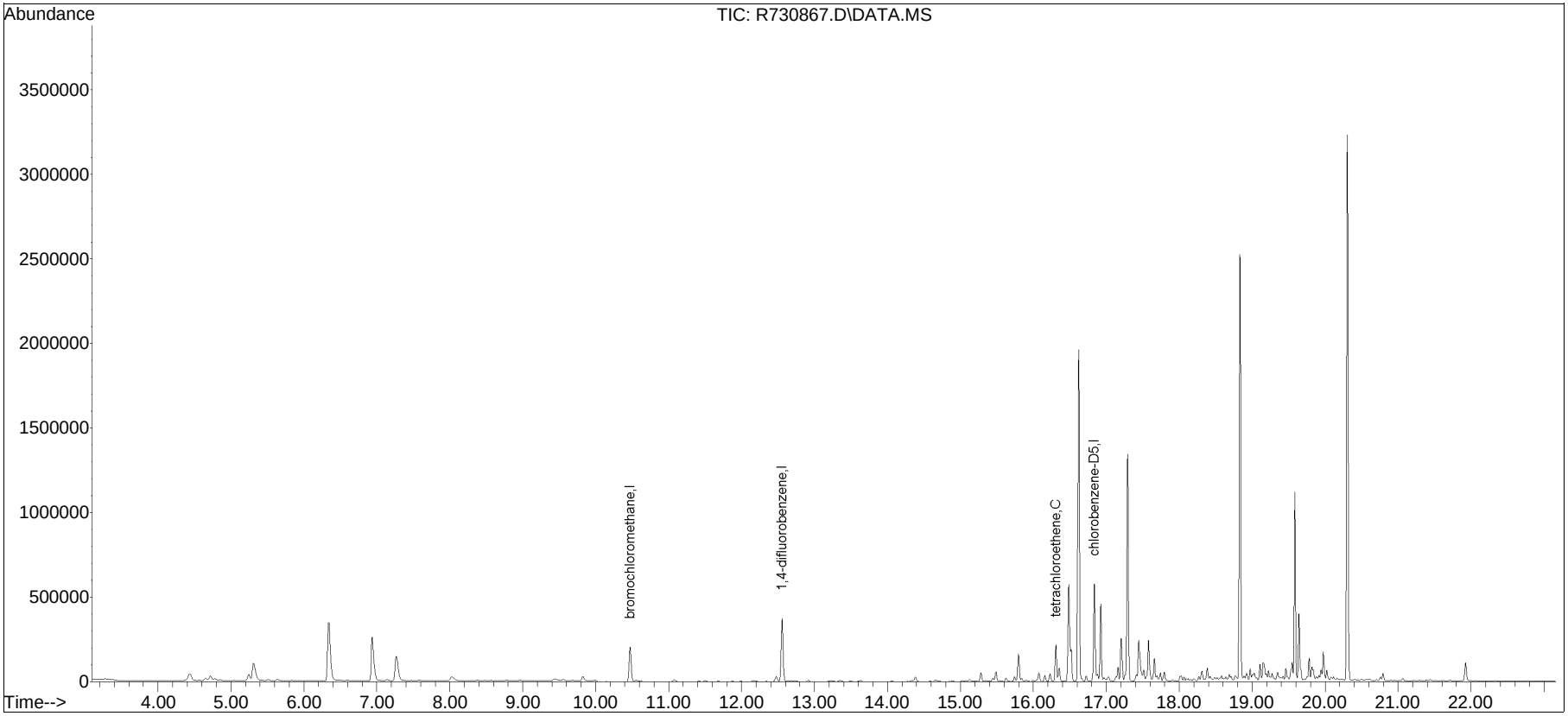
(#) = qualifier out of range (m) = manual integration (+) = signals summed

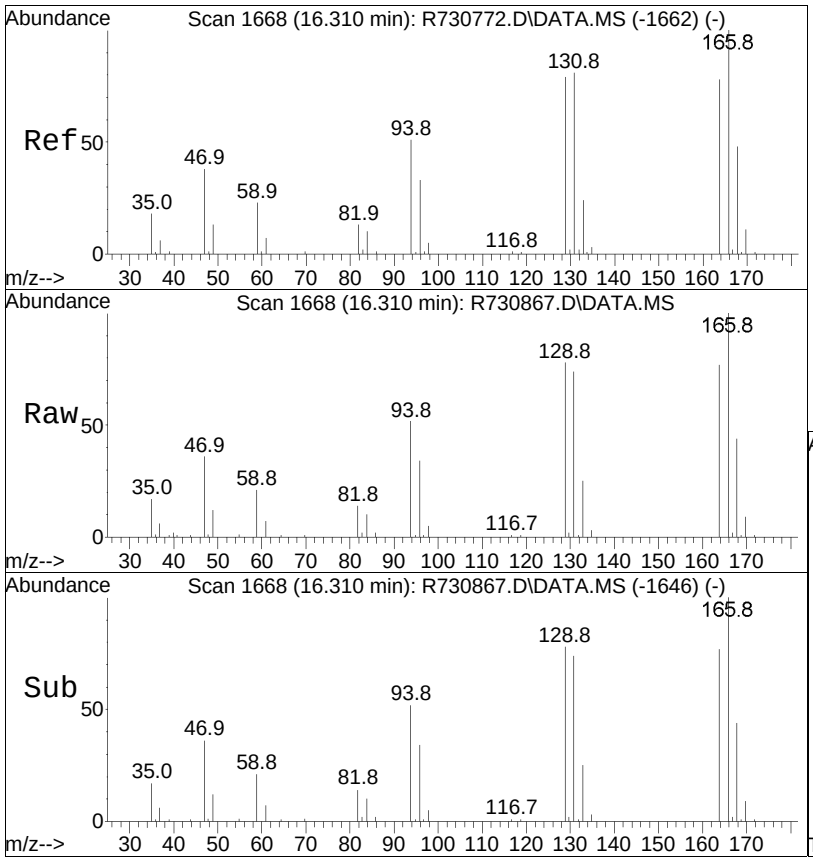
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730867.D
Acq On : 1 Apr 2015 10:57 pm
Operator : AIRLAB7:RY
Sample : L1506022-02,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 02 06:45:48 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : 5Cl+1,1-DCE - .ta\Airlab7\2015\150401T\R730851.D

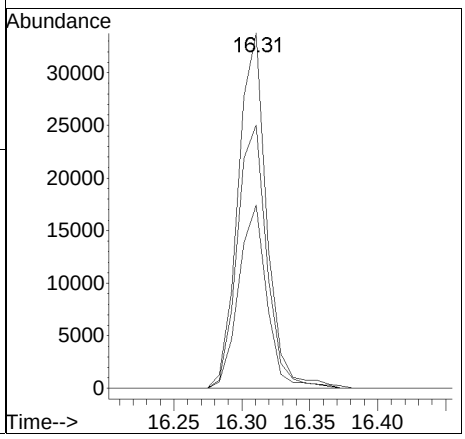




#78
tetrachloroethene
Concen: 3.42 ppbV
RT: 16.31 min Scan# 1668
Delta R.T. 0.000 min
Lab File: R730867.D
Acq: 1 Apr 2015 10:57 pm

Tgt Ion:166 Resp: 49818

Ion	Ratio	Lower	Upper
166	100		
131	74.2	64.5	96.7
94	51.6	40.6	61.0



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TALL150328.M
Data File	: R730867.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 10:57 pm	Instrument	: Airlab 7
Sample	: L1506022-02,3,250,250	Quant Date	: 4/2/2015 6:45 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730868.D
Acq On : 1 Apr 2015 11:30 pm
Operator : AIRLAB7:RY
Sample : L1506022-03,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 02 06:45:59 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : 5Cl+1,1-DCE - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	125143	10.000	ppbV	0.00
Standard Area = 138435			Recovery = 90.40%			
43) 1,4-difluorobenzene	12.55	114	261280	10.000	ppbV	0.00
Standard Area = 232924			Recovery = 112.17%			
67) chlorobenzene-D5	16.83	54	64413	10.000	ppbV	0.00
Standard Area = 83341			Recovery = 77.29%			
System Monitoring Compounds						
Target Compounds						Qvalue
9) vinyl chloride	0.00		0	N.D.		
26) 1,1-dichloroethene	0.00		0	N.D.		
32) trans-1,2-dichloroethene	9.14		0	N.D.		
37) cis-1,2-dichloroethene	0.00		0	N.D.		
59) trichloroethene	0.00		0	N.D.		
78) tetrachloroethene	16.31	166	19164	1.313	ppbV	94

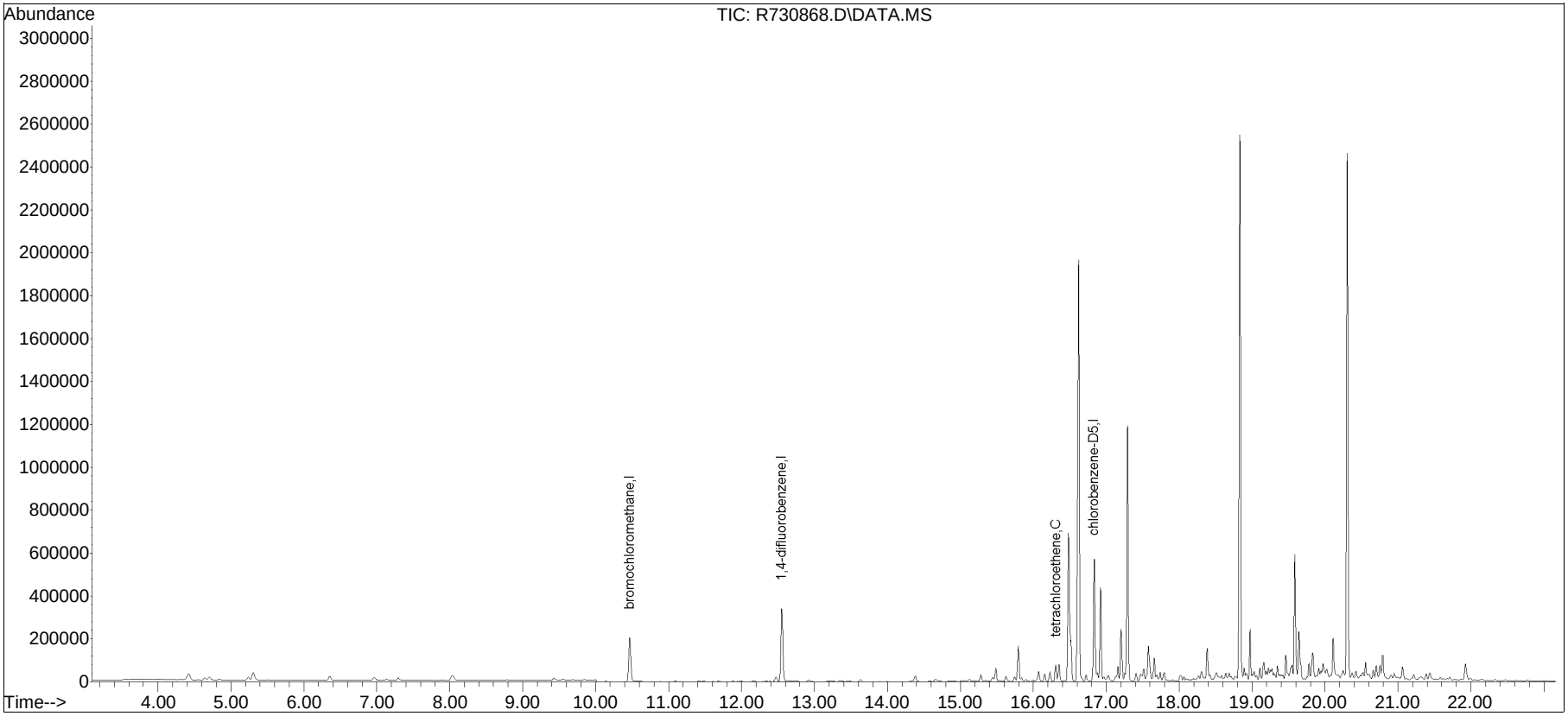
(#) = qualifier out of range (m) = manual integration (+) = signals summed

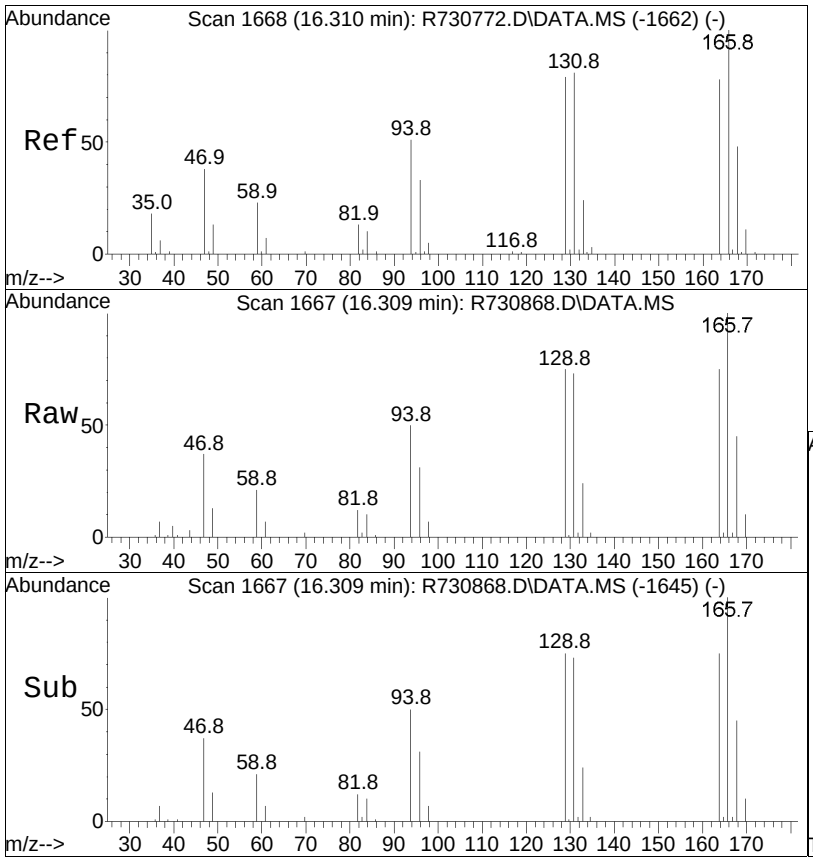
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730868.D
Acq On : 1 Apr 2015 11:30 pm
Operator : AIRLAB7:RY
Sample : L1506022-03,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 02 06:45:59 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : 5Cl+1,1-DCE - .ta\Airlab7\2015\150401T\R730851.D

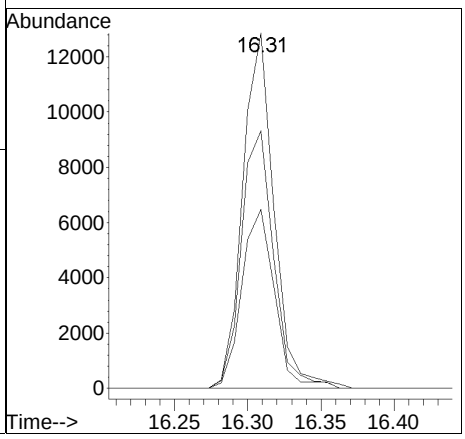




#78
tetrachloroethene
Concen: 1.31 ppbV
RT: 16.31 min Scan# 1667
Delta R.T. -0.001 min
Lab File: R730868.D
Acq: 1 Apr 2015 11:30 pm

Tgt Ion:166 Resp: 19164

Ion	Ratio	Lower	Upper
166	100		
131	72.5	64.5	96.7
94	50.4	40.6	61.0



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TALL150328.M
Data File	: R730868.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 11:30 pm	Instrument	: Airlab 7
Sample	: L1506022-03,3,250,250	Quant Date	: 4/2/2015 6:45 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730869.D
Acq On : 2 Apr 2015 12:03 am
Operator : AIRLAB7:RY
Sample : L1506022-04,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 02 06:46:11 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : 5Cl+1,1-DCE - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	127602	10.000	ppbV	0.00
Standard Area = 138435			Recovery = 92.17%			
43) 1,4-difluorobenzene	12.56	114	284720	10.000	ppbV	0.01
Standard Area = 232924			Recovery = 122.24%			
67) chlorobenzene-D5	16.83	54	64464	10.000	ppbV	0.00
Standard Area = 83341			Recovery = 77.35%			
System Monitoring Compounds						
Target Compounds						Qvalue
9) vinyl chloride	0.00		0	N.D.		
26) 1,1-dichloroethene	0.00		0	N.D.		
32) trans-1,2-dichloroethene	0.00		0	N.D.		
37) cis-1,2-dichloroethene	0.00		0	N.D.		
59) trichloroethene	0.00		0	N.D.		
78) tetrachloroethene	16.31	166	23153	1.585	ppbV	98

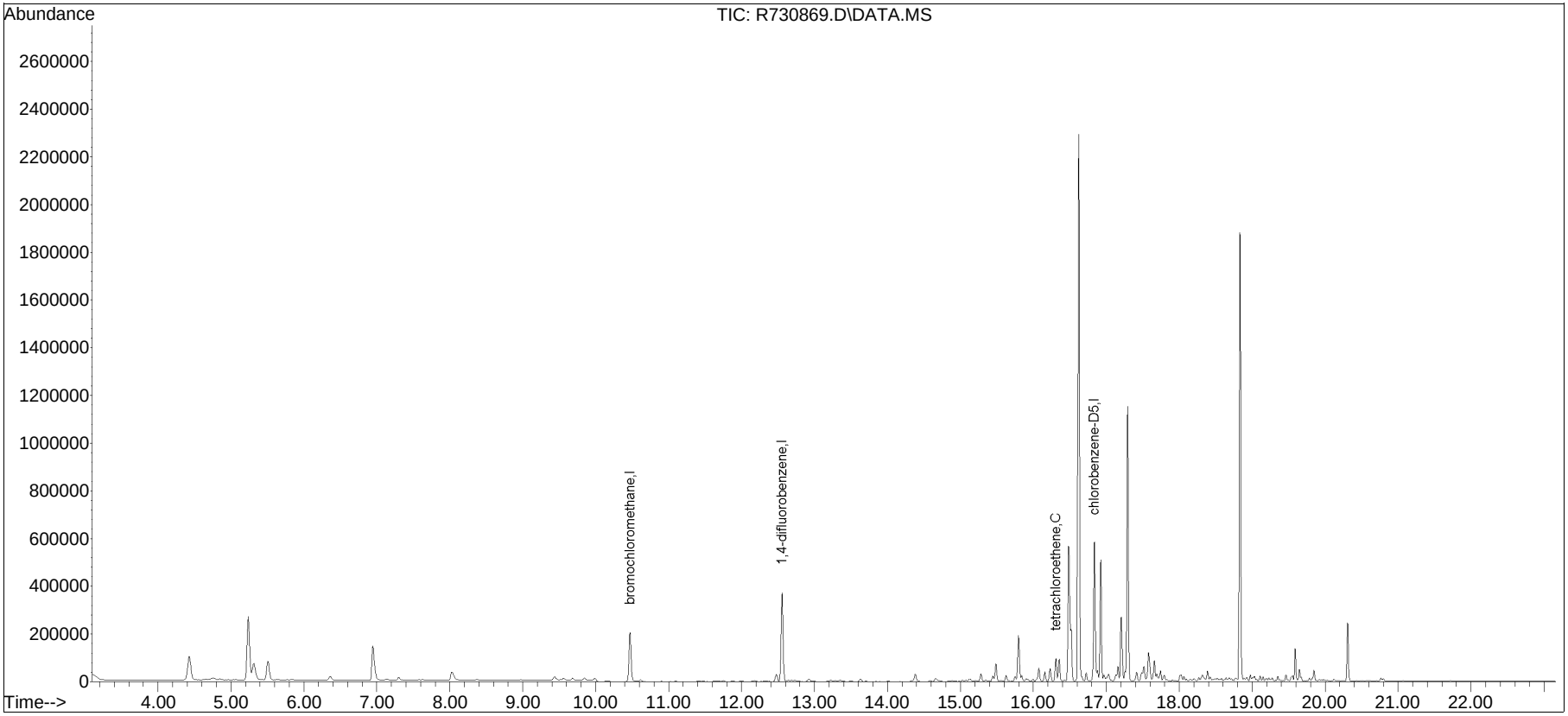
(#) = qualifier out of range (m) = manual integration (+) = signals summed

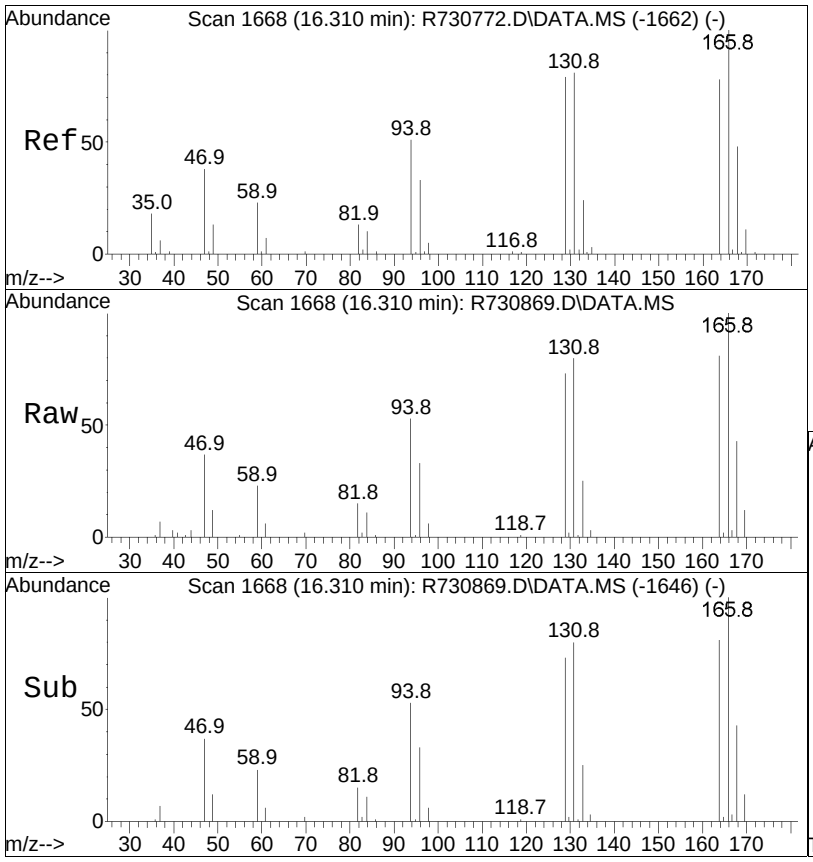
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730869.D
Acq On : 2 Apr 2015 12:03 am
Operator : AIRLAB7:RY
Sample : L1506022-04,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 02 06:46:11 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : 5Cl+1,1-DCE - .ta\Airlab7\2015\150401T\R730851.D

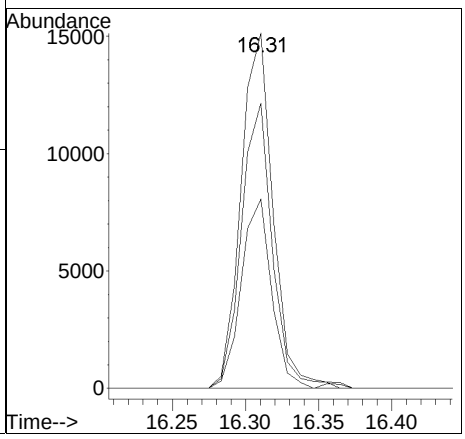




#78
tetrachloroethene
Concen: 1.59 ppbV
RT: 16.31 min Scan# 1668
Delta R.T. 0.000 min
Lab File: R730869.D
Acq: 2 Apr 2015 12:03 am

Tgt Ion:166 Resp: 23153

Ion	Ratio	Lower	Upper
166	100		
131	80.3	64.5	96.7
94	53.3	40.6	61.0



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TALL150328.M
Data File	: R730869.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/2/2015 12:03 am	Instrument	: Airlab 7
Sample	: L1506022-04,3,250,250	Quant Date	: 4/2/2015 6:46 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730870.D
Acq On : 2 Apr 2015 12:36 am
Operator : AIRLAB7:RY
Sample : L1506022-05,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 02 06:46:27 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : 5Cl+1,1-DCE - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	122679	10.000	ppbV	0.00
Standard Area = 138435			Recovery = 88.62%			
43) 1,4-difluorobenzene	12.56	114	272105	10.000	ppbV	0.01
Standard Area = 232924			Recovery = 116.82%			
67) chlorobenzene-D5	16.83	54	60757	10.000	ppbV	0.00
Standard Area = 83341			Recovery = 72.90%			
System Monitoring Compounds						
Target Compounds						Qvalue
9) vinyl chloride	0.00		0	N.D.		
26) 1,1-dichloroethene	0.00		0	N.D.		
32) trans-1,2-dichloroethene	9.14	61	1424	0.093	ppbV	91
37) cis-1,2-dichloroethene	0.00		0	N.D.		
59) trichloroethene	13.32		0	N.D.		
78) tetrachloroethene	16.31	166	9998	0.726	ppbV	97

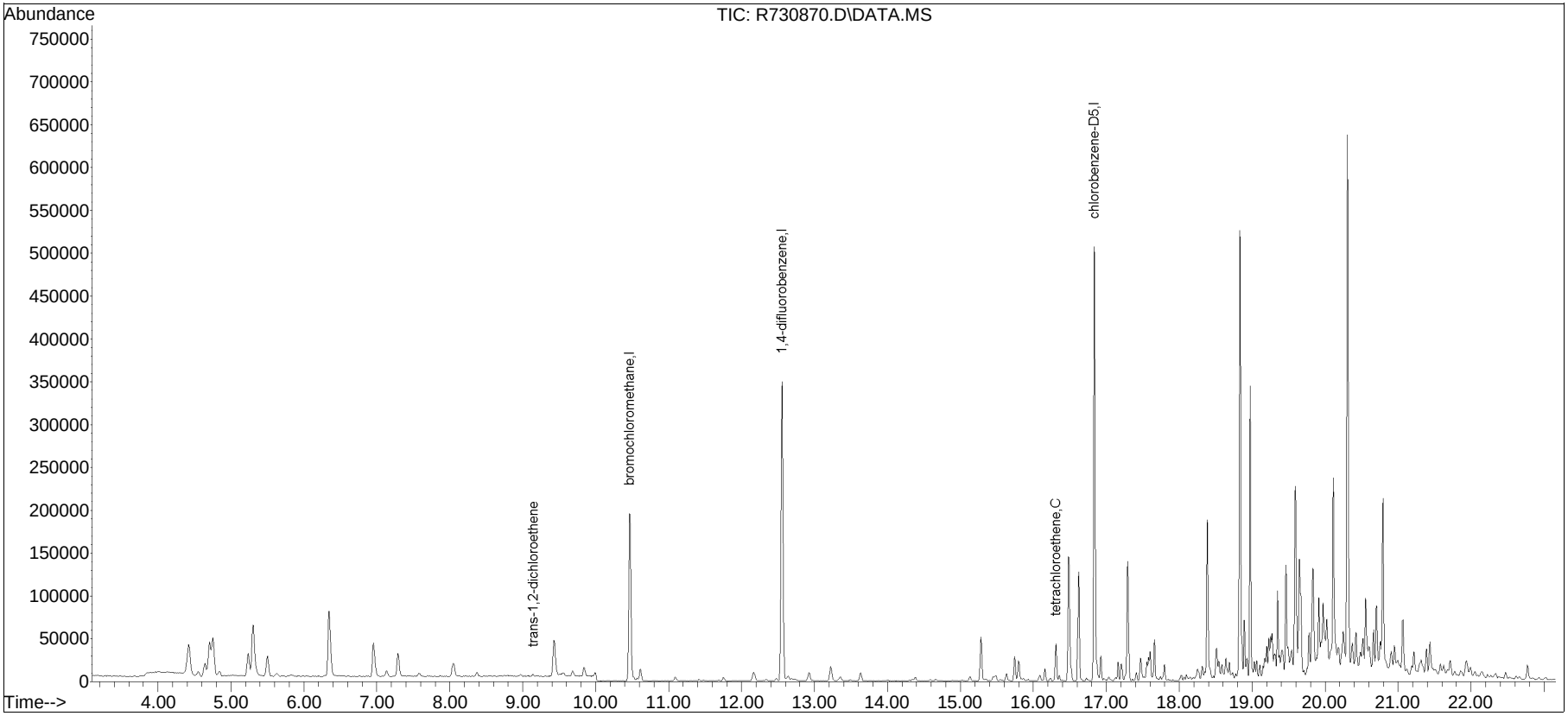
(#) = qualifier out of range (m) = manual integration (+) = signals summed

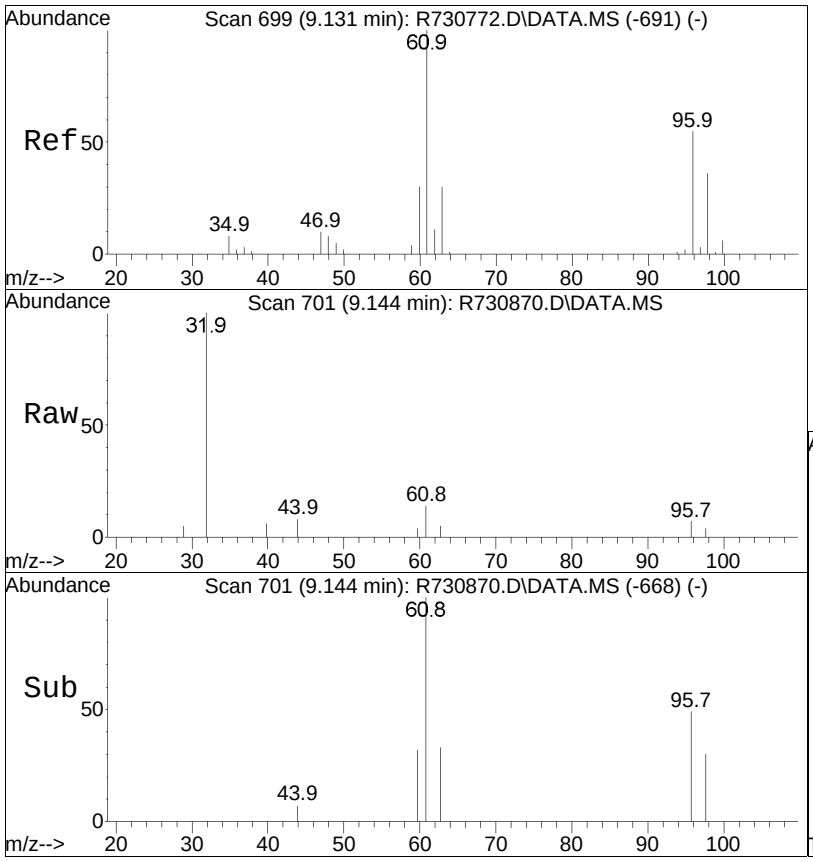
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730870.D
Acq On : 2 Apr 2015 12:36 am
Operator : AIRLAB7:RY
Sample : L1506022-05,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 02 06:46:27 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : 5Cl+1,1-DCE - .ta\Airlab7\2015\150401T\R730851.D

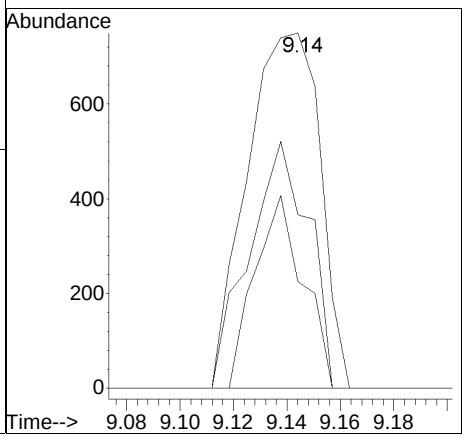


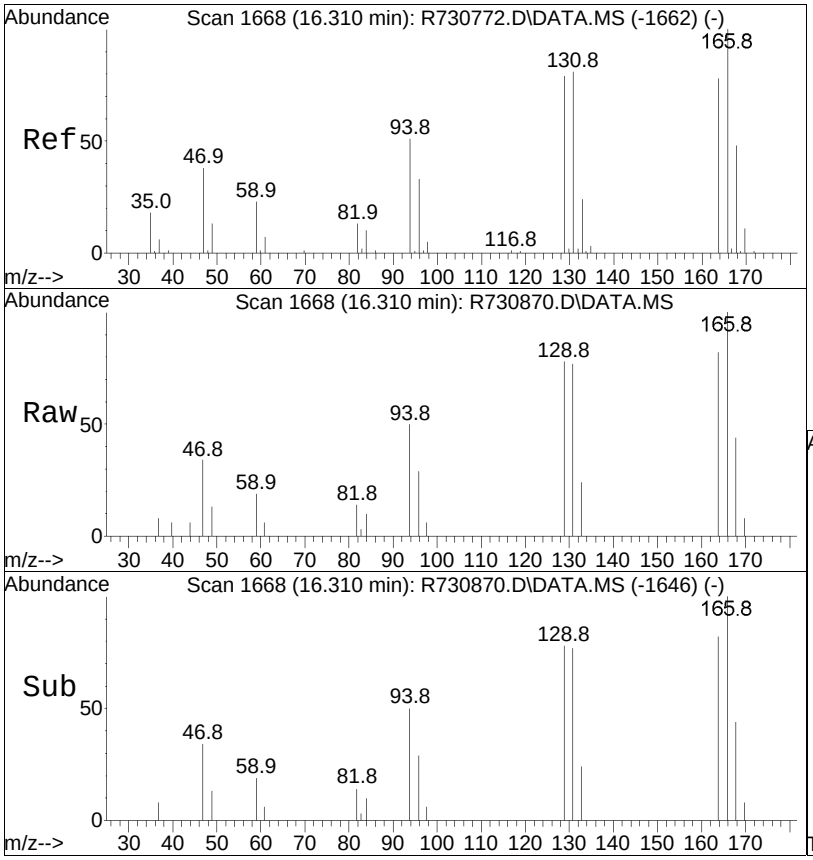


#32
trans-1,2-dichloroethene
Concen: 0.09 ppbV
RT: 9.14 min Scan# 701
Delta R.T. 0.013 min
Lab File: R730870.D
Acq: 2 Apr 2015 12:36 am

Tgt Ion: 61 Resp: 1424

Ion	Ratio	Lower	Upper
61	100		
96	48.8	44.2	66.4
98	30.0	28.6	42.8

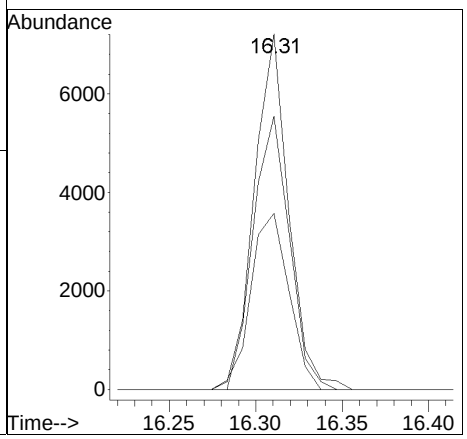




#78
tetrachloroethene
Concen: 0.73 ppbV
RT: 16.31 min Scan# 1668
Delta R.T. 0.000 min
Lab File: R730870.D
Acq: 2 Apr 2015 12:36 am

Tgt Ion:166 Resp: 9998

Ion	Ratio	Lower	Upper
166	100		
131	76.9	64.5	96.7
94	49.6	40.6	61.0



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TALL150328.M
Data File	: R730870.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/2/2015 12:36 am	Instrument	: Airlab 7
Sample	: L1506022-05,3,250,250	Quant Date	: 4/2/2015 6:46 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730871.D
Acq On : 2 Apr 2015 1:09 am
Operator : AIRLAB7:RY
Sample : L1506022-07,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 02 06:46:38 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : 5Cl+1,1-DCE - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	125076	10.000	ppbV	0.00
Standard Area = 138435			Recovery = 90.35%			
43) 1,4-difluorobenzene	12.55	114	278285	10.000	ppbV	0.00
Standard Area = 232924			Recovery = 119.47%			
67) chlorobenzene-D5	16.83	54	66485	10.000	ppbV	0.00
Standard Area = 83341			Recovery = 79.77%			
System Monitoring Compounds						
Target Compounds						Qvalue
9) vinyl chloride	0.00		0	N.D.		
26) 1,1-dichloroethene	0.00		0	N.D.		
32) trans-1,2-dichloroethene	9.14		0	N.D.		
37) cis-1,2-dichloroethene	0.00		0	N.D.		
59) trichloroethene	13.31	130	973	0.053	ppbV #	84
78) tetrachloroethene	16.31	166	147130	9.769	ppbV	95

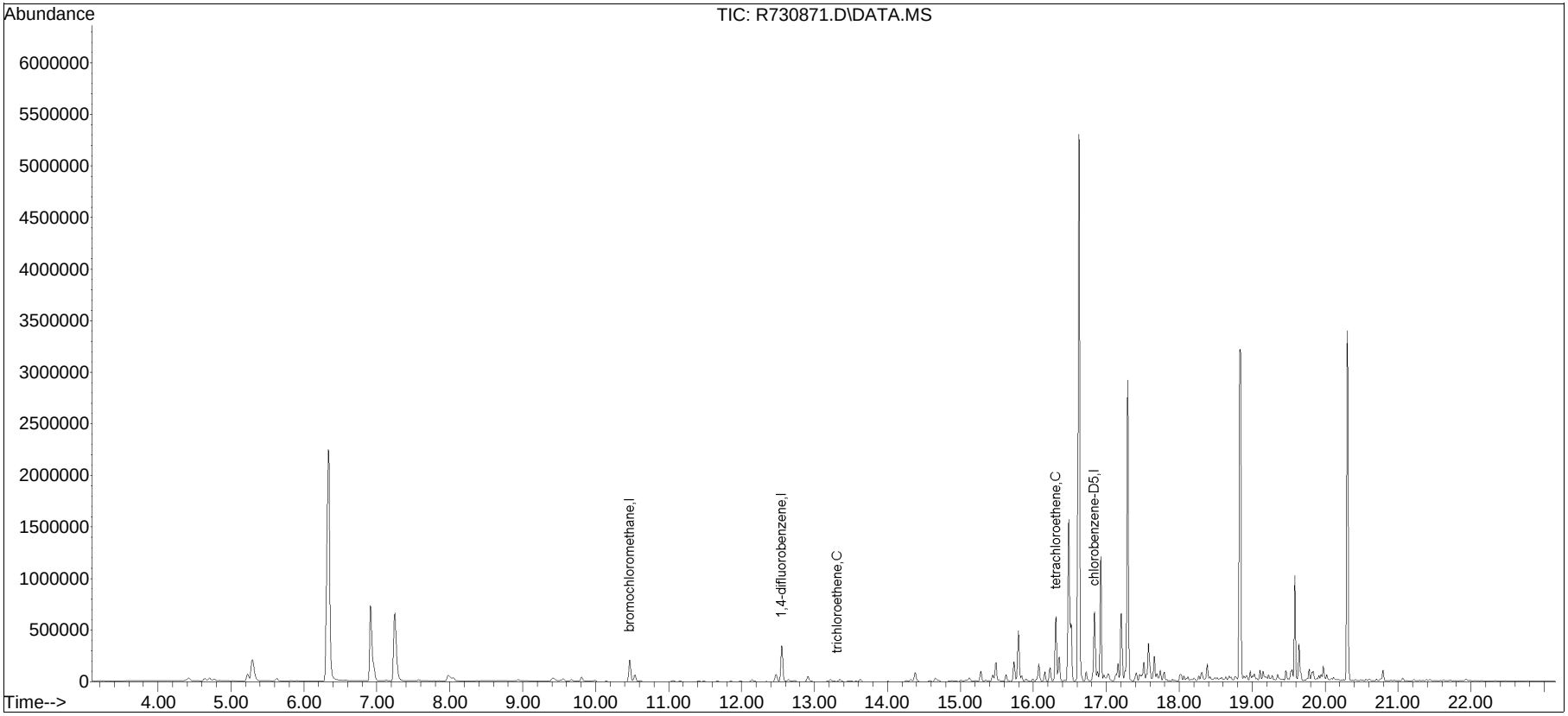
(#) = qualifier out of range (m) = manual integration (+) = signals summed

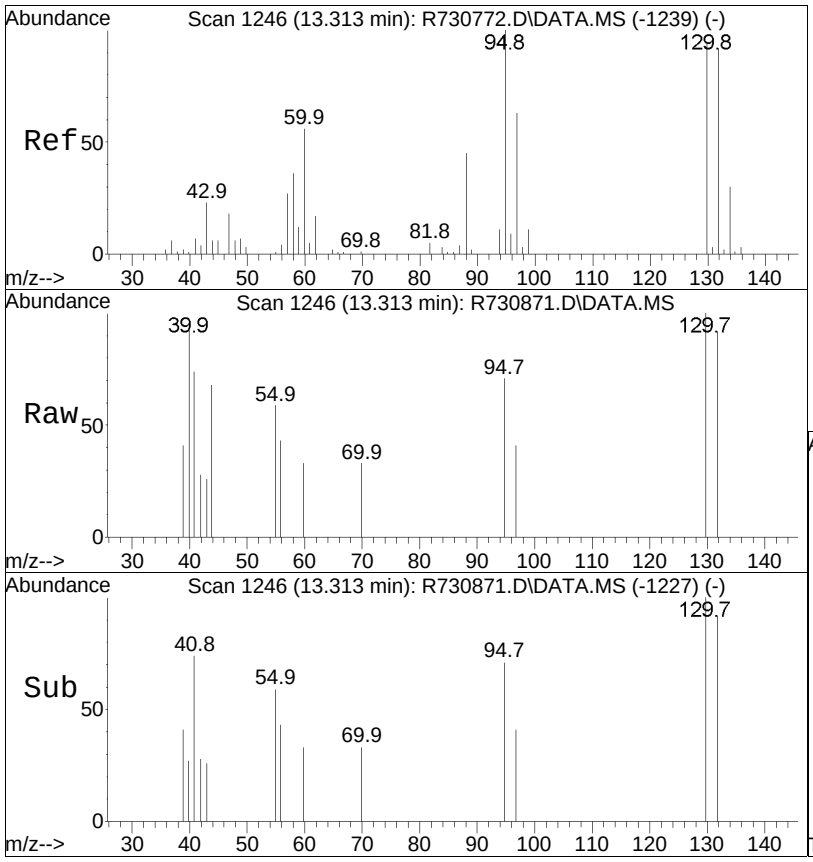
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730871.D
Acq On : 2 Apr 2015 1:09 am
Operator : AIRLAB7:RY
Sample : L1506022-07,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 02 06:46:38 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : 5Cl+1,1-DCE - .ta\Airlab7\2015\150401T\R730851.D

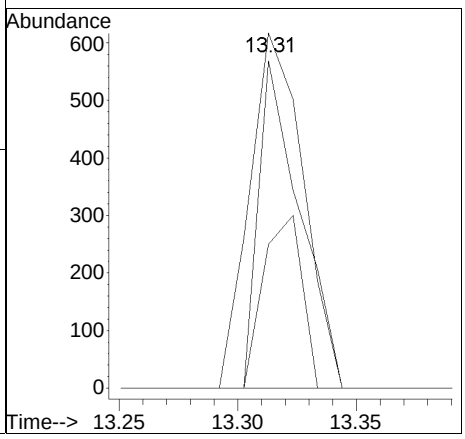


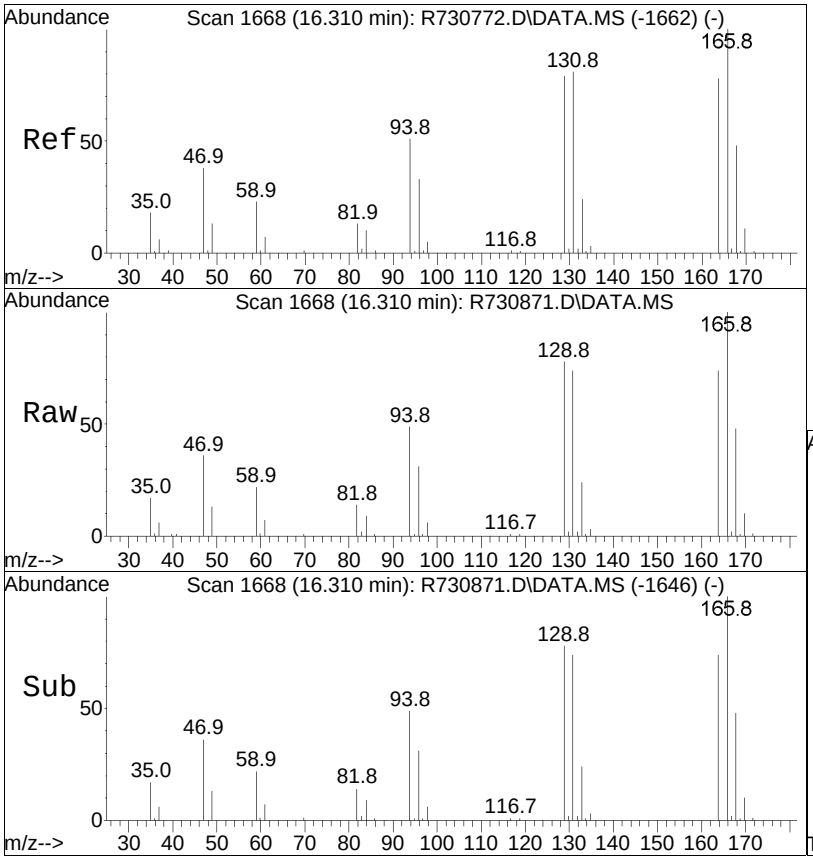


#59
trichloroethene
Concen: 0.05 ppbV
RT: 13.31 min Scan# 1246
Delta R.T. 0.000 min
Lab File: R730871.D
Acq: 2 Apr 2015 1:09 am

Tgt Ion:130 Resp: 973

Ion	Ratio	Lower	Upper
130	100		
132	92.2	77.9	116.9
97	40.5	52.9	79.3#

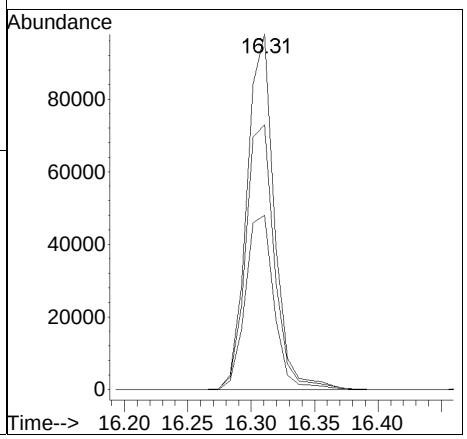




#78
tetrachloroethene
Concen: 9.77 ppbV
RT: 16.31 min Scan# 1668
Delta R.T. 0.000 min
Lab File: R730871.D
Acq: 2 Apr 2015 1:09 am

Tgt Ion:166 Resp: 147130

Ion	Ratio	Lower	Upper
166	100		
131	74.4	64.5	96.7
94	49.0	40.6	61.0



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TALL150328.M
Data File	: R730871.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/2/2015 1:09 am	Instrument	: Airlab 7
Sample	: L1506022-07,3,250,250	Quant Date	: 4/2/2015 6:46 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

VOLATILE ORGANICS ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Instrument ID: AIRLAB7 Calibration Date(s): 03/28/15 03/28/15

Calibration Times: 16:36 20:26

Calibration Files

0.2 =R730768.D 0.5 =R730769.D 1.0 =R730770.D 5.0 =R730771.D 10 =R730772.D 20 =R730773.D

50 =R730774.D 100 =R730775.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	ISTD									
2)		chlorodifluoromethane	1.962	1.882	1.830	1.787	1.755	1.728	1.571	1.388	1.7379	10.47
3)		propylene	0.913	1.044	0.858	0.932	0.919	0.914	0.825	0.762	0.8957	9.31
4)		propane	1.392	1.228	1.108	0.826	1.097	1.092	0.936	0.813	1.0615	18.64
5)		dichlorodifluoromethane	1.642	1.431	1.344	1.339	1.507	1.432	1.150	1.168	1.3767	11.99
6)	C	chloromethane	1.171	0.982	0.945	0.915	0.883	0.873	0.809	0.716	0.9118	14.63
7)		Freon-114	2.227	2.054	2.091	1.966	2.051	1.918	1.414	1.416	1.8922	16.28
8)	C	methanol			0.418	0.399	0.400	0.383	0.337	0.286	0.3706	13.43
9)	C	vinyl chloride	0.780	0.792	0.760	0.766	0.779	0.773	0.725	0.657	0.7538	5.81
10)	C	1,3-butadiene	0.647	0.704	0.645	0.652	0.671	0.659	0.608	0.551	0.6421	7.10
11)		butane	2.049	1.746	1.572	1.590	1.624	1.592	1.424	1.258	1.6066	14.35
12)	C	acetaldehyde			0.751	0.726	0.672	0.685	0.667	0.550	0.422	0.6390	17.99
13)	C	bromomethane	0.777	0.722	0.689	0.666	0.665	0.660	0.632	0.596	0.6757	8.19
14)	C	chloroethane	0.350	0.332	0.352	0.343	0.354	0.339	0.324	0.297	0.3361	5.68
15)		ethanol	0.875	0.843	0.819	0.831	0.853	0.830	0.725	0.611	0.7984	10.97
16)		dichlorofluoromethane	1.687	1.699	1.653	1.609	1.626	1.589	1.507	1.376	1.5933	6.69
17)	C	vinyl bromide	0.741	0.651	0.677	0.670	0.680	0.686	0.656	0.618	0.6725	5.21
18)	C	acrolein	0.357	0.339	0.336	0.347	0.351	0.350	0.332	0.304	0.3396	4.88
19)		acetone	1.925	1.757	1.658	1.613	1.599	1.596	1.411	1.170	1.5912	14.11
20)	C	acetonitrile	0.984	1.000	1.014	0.959	0.976	0.953	0.856	0.746	0.9362	9.69
21)		trichlorofluoromethane	2.462	2.384	2.307	2.218	2.193	2.160	2.021	1.852	2.1997	8.91
22)		isopropyl alcohol			1.807	1.749	1.762	1.764	1.765	1.635	1.472	1.7077	6.84
23)	C	acrylonitrile	0.707	0.615	0.690	0.665	0.661	0.677	0.627	0.581	0.6530	6.47
24)		pentane	1.969	1.866	1.783	1.949	1.916	1.926	1.711	1.494	1.8267	8.79
25)		ethyl ether	1.513	1.531	1.434	1.458	1.464	1.437	1.266	1.060	1.3955	11.28
26)	C	1,1-dichloroethene	1.511	1.411	1.379	1.349	1.364	1.357	1.268	1.167	1.3508	7.45
27)		tertiary butyl alcohol			1.511	1.560	1.546	1.603	1.628	1.537	1.451	1.5479	3.77
28)	C	methylene chloride			1.555	1.473	1.310	1.255	1.249	1.150	1.016	1.2869	14.24
29)	C	3-chloropropene	1.541	1.446	1.376	1.388	1.401	1.429	1.316	1.164	1.3825	7.92
30)	C	carbon disulfide	2.219	1.989	1.952	1.971	2.005	2.020	1.947	1.793	1.9870	5.88
31)		Freon 113	1.759	1.637	1.600	1.515	1.512	1.514	1.446	1.324	1.5383	8.46
32)		trans-1,2-dichloroethene	1.427	1.251	1.272	1.233	1.247	1.255	1.185	1.105	1.2469	7.25
33)	C	1,1-dichloroethane	1.610	1.592	1.422	1.439	1.430	1.428	1.341	1.259	1.4403	8.10
34)	C	MTBE	2.122	1.828	1.792	1.837	1.837	1.865	1.779	1.706	1.8458	6.60
35)	C	vinyl acetate	1.713	1.632	1.494	1.638	1.745	1.998	2.039	1.979	1.7797	11.32
36)	C	2-butanone	2.740	2.564	2.407	2.420	2.389	2.367	2.196	1.962	2.3807	9.73
37)		cis-1,2-dichloroethene	1.242	1.106	1.066	1.063	1.074	1.067	1.003	0.937	1.0699	8.14
38)		Ethyl Acetate	0.267	0.269	0.235	0.241	0.246	0.237	0.221	0.207	0.2402	8.67
39)	C	chloroform	1.676	1.694	1.582	1.518	1.515	1.506	1.401	1.276	1.5210	9.05
40)		Tetrahydrofuran	1.323	1.282	1.139	1.205	1.211	1.204	1.092	0.987	1.1805	9.03
41)		2,2-dichloropropane	1.341	1.315	1.245	1.254	1.252	1.256	1.188	1.092	1.2429	6.17
42)	C	1,2-dichloroethane	1.213	1.259	1.212	1.217	1.189	1.170	1.065	0.952	1.1596	8.73
43)	I	1,4-difluorobenzene	ISTD									

VOLATILE ORGANICS ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Instrument ID: AIRLAB7 Calibration Date(s): 03/28/15 03/28/15

Calibration Times: 16:36 20:26

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
44)	C	hexane	0.849	0.769	0.737	0.745	0.739	0.595	0.715	0.630	0.7222	10.97
45)		diisopropyl ether	0.311	0.294	0.297	0.290	0.291	0.235	0.288	0.272	0.2849	8.02
46)		tert-butyl ethyl ether	1.463	1.341	1.424	1.360	1.365	1.120	1.385	1.290	1.3434	7.76
47)	s	1,2-dichloroethane-D4	0.477	0.479	0.494	0.469	0.484	0.379	0.483	0.464	0.4662	7.79
48)	C	1,1,1-trichloroethane	1.015	0.947	0.962	0.918	1.004	0.799	0.940	0.851	0.9296	7.89
49)		1,1-dichloropropene	0.588	0.525	0.537	0.547	0.549	0.441	0.526	0.502	0.5269	8.09
50)	C	benzene	1.146	1.028	0.982	0.966	0.970	0.789	0.962	0.923	0.9705	10.29
51)		thiophene	0.764	0.709	0.736	0.695	0.702	0.569	0.694	0.641	0.6887	8.73
52)	C	carbon tetrachloride	0.906	0.818	0.915	0.898	0.886	0.710	0.836	0.700	0.8336	10.35
53)		cyclohexane	0.676	0.652	0.644	0.645	0.636	0.513	0.611	0.572	0.6185	8.53
54)		tert-amyl methyl ether	1.148	1.107	1.130	1.169	1.177	0.987	1.204	1.204	1.1406	6.20
55)		dibromomethane	0.672	0.633	0.621	0.615	0.618	0.499	0.608	0.585	0.6063	8.21
56)	C	1,2-dichloropropane	0.622	0.612	0.547	0.565	0.578	0.472	0.571	0.546	0.5641	8.22
57)		bromodichloromethane	1.075	1.074	1.095	1.144	1.149	0.955	1.180	1.141	1.1016	6.39
58)	C	1,4-dioxane	0.269	0.275	0.301	0.310	0.316	0.266	0.331	0.322	0.2988	8.46
59)	C	trichloroethene	0.764	0.631	0.677	0.685	0.681	0.556	0.674	0.645	0.6641	8.85
60)	C	2,2,4-trimethylpentane	2.980	2.770	2.840	2.967	2.977	2.403	2.874	2.560	2.7964	7.58
61)		methyl methacrylate	0.812	0.854	0.834	0.887	0.936	0.796	0.972	0.893	0.8730	6.96
62)		heptane	1.404	1.250	1.281	1.310	1.319	1.091	1.305	1.153	1.2641	7.87
63)	C	cis-1,3-dichloropropene	0.595	0.562	0.601	0.674	0.715	0.612	0.757	0.747	0.6579	11.47
64)	C	4-methyl-2-pentanone	1.796	1.678	1.746	1.875	1.895	1.542	1.839	1.660	1.7540	6.93
65)		trans-1,3-dichloropropene	0.539	0.518	0.561	0.668	0.729	0.622	0.793	0.776	0.6506	16.58
66)	C	1,1,2-trichloroethane	0.579	0.536	0.555	0.579	0.590	0.481	0.592	0.576	0.5609	6.65
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	5.300	4.949	4.770	4.784	4.609	4.541	4.290	4.363	4.7007	6.96
69)	s	toluene-D8	3.345	3.332	3.364	3.201	3.098	3.042	3.148	3.574	3.2630	5.33
70)		2-methylthiophene	4.092	3.963	3.955	3.945	3.881	3.916	3.737	3.826	3.9142	2.68
71)		1,3-dichloropropane	2.453	2.184	2.174	2.196	2.110	2.083	1.969	1.987	2.1445	7.07
72)		2-hexanone	4.387	4.838	4.725	5.115	4.912	4.796	4.367	3.783	4.6153	9.12
73)		3-methylthiophene	4.092	3.963	3.955	3.945	3.881	3.916	3.737	3.826	3.9142	2.68
74)		dibromochloromethane	3.321	2.955	2.975	3.236	3.241	3.339	3.281	3.225	3.1967	4.64
75)	C	1,2-dibromoethane	2.707	2.551	2.579	2.545	2.536	2.566	2.525	2.596	2.5755	2.25
76)		butyl acetate	0.319	0.375	0.401	0.447	0.461	0.472	0.450	0.460	0.4232	12.70
77)		octane	1.329	1.296	1.249	1.254	1.206	1.181	1.162	1.164	1.2301	5.06
78)	C	tetrachloroethene	2.142	2.369	2.225	2.191	2.184	2.271	2.362	2.380	2.2654	4.17
79)		1,1,1,2-tetrachloroethane	2.505	2.449	2.366	2.320	2.245	2.251	2.137	1.967	2.2801	7.57
80)	C	chlorobenzene	4.125	3.725	3.578	3.699	3.657	3.752	3.698	3.632	3.7332	4.48
81)	C	ethylbenzene	5.919	5.604	5.644	6.049	5.999	6.052	5.879	5.853	5.8749	2.92
82)		2-ethylthiophene	3.825	3.844	4.044	4.184	4.198	4.452	4.322	4.280	4.1436	5.40
83)	C	m+p-xylene	4.553	4.413	4.558	4.744	4.737	4.813	4.639	4.404	4.6076	3.31
84)	C	bromoform	2.243	2.200	2.324	2.645	2.769	3.030	3.272	3.234	2.7146	16.04
85)	C	styrene	2.699	2.694	2.947	3.371	3.461	3.627	3.607	3.669	3.2595	12.75
86)	C	1,1,2,2-tetrachloroethane	4.038	3.601	3.476	3.522	3.490	3.494	3.272	2.953	3.4806	8.75
87)	C	o-xylene	4.546	4.714	4.847	5.084	5.041	5.033	4.703	4.267	4.7792	5.90
88)		1,2,3-trichloropropane	2.742	2.603	2.643	2.649	2.590	2.617	2.545	2.552	2.6177	2.40
89)		nonane	5.680	5.625	5.626	5.786	5.510	5.336	4.725	3.859	5.2682	12.50
90)	s	bromofluorobenzene	1.999	2.004	1.999	2.028	2.074	2.129	2.303	2.633	2.1462	10.33

VOLATILE ORGANICS ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Instrument ID: AIRLAB7 Calibration Date(s): 03/28/15 03/28/15

Calibration Times: 16:36 20:26

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
91) C	isopropylbenzene	7.053	7.020	6.921	7.238	7.019	6.962	6.574	6.161	6.8685	4.97
92)	bromobenzene	2.930	2.896	2.884	3.078	3.107	3.234	3.291	3.317	3.0920	5.71
93)	2-chlorotoluene	1.560	1.512	1.640	1.733	1.740	1.778	1.761	1.700	1.6780	5.84
94)	n-propylbenzene	1.743	1.704	1.726	1.871	1.873	1.903	1.883	1.766	1.8086	4.50
95)	4-chlorotoluene	4.335	4.163	4.196	4.656	4.728	4.808	4.878	4.883	4.5809	6.61
96)	4-ethyl toluene	6.562	6.550	6.652	7.219	7.328	7.494	7.280	6.649	6.9669	5.71
97)	1,3,5-trimethylbenzene	5.677	5.787	6.023	6.248	6.134	6.116	5.948	5.489	5.9278	4.35
98)	tert-butylbenzene	7.069	6.644	6.827	7.266	6.949	6.845	6.080	4.847	6.5656	11.84
99)	1,2,4-trimethylbenzene	5.337	5.255	5.553	6.193	6.165	6.204	5.680	4.511	5.6122	10.47
100)	decane	4.676	4.808	4.940	5.171	4.947	4.822	4.288	3.682	4.6669	10.13
101) C	Benzyl Chloride	2.613	2.500	2.615	3.395	3.814	4.348	4.743	4.829	3.6072	26.96
102)	1,3-dichlorobenzene	3.306	3.226	3.158	3.442	3.553	3.823	4.059	3.714	3.5350	8.87
103) C	1,4-dichlorobenzene	3.348	3.033	3.160	3.396	3.525	3.782	3.997	3.408	3.4562	9.08
104)	sec-butylbenzene	9.335	8.940	9.373	9.866	9.559	9.397	8.631	7.079	9.0223	9.64
105)	1,2,3-trimethylbenzene	5.132	5.105	5.275	5.462	5.350	5.632	5.281	4.382	5.2024	7.17
106)	p-isopropyltoluene	7.278	7.579	7.649	8.656	8.477	8.480	7.602	5.896	7.7019	11.60
107)	1,2-dichlorobenzene	3.203	3.062	3.067	3.409	3.500	3.660	3.859	3.816	3.4468	9.23
108)	n-butylbenzene	6.151	6.311	6.599	7.256	7.294	7.280	6.970	6.348	6.7762	7.08
109)	indan	4.471	4.670	4.781	5.147	5.126	5.405	5.376	5.067	5.0055	6.68
110)	indene	2.612	2.436	2.630	2.837	2.952	3.207	3.296	3.411	2.9227	12.18
111) C	1,2-dibromo-3-chloropropane	1.422	1.436	1.441	1.616	1.701	1.691	1.759	1.711	1.5971	8.86
112)	undecane	4.812	5.101	5.379	6.221	6.113	5.664	5.013	4.138	5.3052	13.05
113)	1,2,4,5-tetramethylbenzene	0.958	1.001	1.076	1.310	1.301	1.220	1.104	0.880	1.1064	14.40
114)	dodecane	4.721	5.114	5.550	6.968	6.870	6.113	5.117	3.686	5.5173	20.09
115) C	1,2,4-trichlorobenzene	2.249	2.208	2.288	2.792	2.934	3.027	3.127	2.366	2.6239	14.64
116)	naphthalene	4.939	5.374	5.439	6.989	7.281	7.101	7.673	7.187	6.4977	16.34
117)	1,2,3-trichlorobenzene	2.266	2.237	2.271	2.783	2.910	2.939	3.340	3.155	2.7378	15.74
118)	benzothiophene		4.848	5.148	6.046	6.377	6.680	7.220	6.816	6.1621	14.26
119) C	hexachlorobutadiene	3.429	3.053	3.101	3.679	3.696	3.772	3.600	2.524	3.3567	12.87
120)	2-methylnaphthalene			2.251	3.012	3.284	3.500	4.004	4.009	3.3434	19.88
121)	1-methylnaphthalene			2.271	2.660	2.849	3.203	3.559	3.538	3.0133	17.01

FORM VI-TO15-LL

Response Factor Report Airlab 7

Method Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Method File : TALL150328.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Mar 29 07:59:36 2015
Response Via : Initial Calibration

Calibration Files
0.2 =R730768.D 0.5 =R730769.D 1.0 =R730770.D 5.0 =R730771.D 10 =R730772.D 20 =R730773.D
50 =R730774.D 100 =R730775.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	ISTD									
2)		chlorodifluoromethane	1.962	1.882	1.830	1.787	1.755	1.728	1.571	1.388	1.7379	10.47
3)		propylene	0.913	1.044	0.858	0.932	0.919	0.914	0.825	0.762	0.8957	9.31
4)		propane	1.392	1.228	1.108	0.826	1.097	1.092	0.936	0.813	1.0615	18.64
5)		dichlorodifluoromethane	1.642	1.431	1.344	1.339	1.507	1.432	1.150	1.168	1.3767	11.99
6)	C	chloromethane	1.171	0.982	0.945	0.915	0.883	0.873	0.809	0.716	0.9118	14.63
7)		Freon-114	2.227	2.054	2.091	1.966	2.051	1.918	1.414	1.416	1.8922	16.28
8)	C	methanol			0.418	0.399	0.400	0.383	0.337	0.286	0.3706	13.43
9)	C	vinyl chloride	0.780	0.792	0.760	0.766	0.779	0.773	0.725	0.657	0.7538	5.81
10)	C	1,3-butadiene	0.647	0.704	0.645	0.652	0.671	0.659	0.608	0.551	0.6421	7.10
11)		butane	2.049	1.746	1.572	1.590	1.624	1.592	1.424	1.258	1.6066	14.35
12)	C	acetaldehyde			0.751	0.726	0.672	0.685	0.667	0.550	0.422	0.6390	17.99
13)	C	bromomethane	0.777	0.722	0.689	0.666	0.665	0.660	0.632	0.596	0.6757	8.19
14)	C	chloroethane	0.350	0.332	0.352	0.343	0.354	0.339	0.324	0.297	0.3361	5.68
15)		ethanol	0.875	0.843	0.819	0.831	0.853	0.830	0.725	0.611	0.7984	10.97
16)		dichlorofluoromethane	1.687	1.699	1.653	1.609	1.626	1.589	1.507	1.376	1.5933	6.69
17)	C	vinyl bromide	0.741	0.651	0.677	0.670	0.680	0.686	0.656	0.618	0.6725	5.21
18)	C	acrolein	0.357	0.339	0.336	0.347	0.351	0.350	0.332	0.304	0.3396	4.88
19)		acetone	1.925	1.757	1.658	1.613	1.599	1.596	1.411	1.170	1.5912	14.11
20)	C	acetonitrile	0.984	1.000	1.014	0.959	0.976	0.953	0.856	0.746	0.9362	9.69
21)		trichlorofluoromethane	2.462	2.384	2.307	2.218	2.193	2.160	2.021	1.852	2.1997	8.91
22)		isopropyl alcohol			1.807	1.749	1.762	1.764	1.765	1.635	1.472	1.7077	6.84
23)	C	acrylonitrile	0.707	0.615	0.690	0.665	0.661	0.677	0.627	0.581	0.6530	6.47
24)		pentane	1.969	1.866	1.783	1.949	1.916	1.926	1.711	1.494	1.8267	8.79
25)		ethyl ether	1.513	1.531	1.434	1.458	1.464	1.437	1.266	1.060	1.3955	11.28
26)	C	1,1-dichloroethene	1.511	1.411	1.379	1.349	1.364	1.357	1.268	1.167	1.3508	7.45
27)		tertiary butyl alcohol			1.511	1.560	1.546	1.603	1.628	1.537	1.451	1.5479	3.77
28)	C	methylene chloride			1.555	1.473	1.310	1.255	1.249	1.150	1.016	1.2869	14.24
29)	C	3-chloropropene	1.541	1.446	1.376	1.388	1.401	1.429	1.316	1.164	1.3825	7.92
30)	C	carbon disulfide	2.219	1.989	1.952	1.971	2.005	2.020	1.947	1.793	1.9870	5.88
31)		Freon 113	1.759	1.637	1.600	1.515	1.512	1.514	1.446	1.324	1.5383	8.46

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		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dichloroethene	1.427	1.251	1.272	1.233	1.247	1.255	1.185	1.105	1.2469	7.25
33)	C	1,1-dichloroethane	1.610	1.592	1.422	1.439	1.430	1.428	1.341	1.259	1.4403	8.10
34)	C	MTBE	2.122	1.828	1.792	1.837	1.837	1.865	1.779	1.706	1.8458	6.60
35)	C	vinyl acetate	1.713	1.632	1.494	1.638	1.745	1.998	2.039	1.979	1.7797	11.32
36)	C	2-butanone	2.740	2.564	2.407	2.420	2.389	2.367	2.196	1.962	2.3807	9.73
37)		cis-1,2-dichloroethene	1.242	1.106	1.066	1.063	1.074	1.067	1.003	0.937	1.0699	8.14
38)		Ethyl Acetate	0.267	0.269	0.235	0.241	0.246	0.237	0.221	0.207	0.2402	8.67
39)	C	chloroform	1.676	1.694	1.582	1.518	1.515	1.506	1.401	1.276	1.5210	9.05
40)		Tetrahydrofuran	1.323	1.282	1.139	1.205	1.211	1.204	1.092	0.987	1.1805	9.03
41)		2,2-dichloropropane	1.341	1.315	1.245	1.254	1.252	1.256	1.188	1.092	1.2429	6.17
42)	C	1,2-dichloroethane	1.213	1.259	1.212	1.217	1.189	1.170	1.065	0.952	1.1596	8.73
43)	I	1,4-difluorobenzene	ISTD									
44)	C	hexane	0.849	0.769	0.737	0.745	0.739	0.595	0.715	0.630	0.7222	10.97
45)		diisopropyl ether	0.311	0.294	0.297	0.290	0.291	0.235	0.288	0.272	0.2849	8.02
46)		tert-butyl ethyl ether	1.463	1.341	1.424	1.360	1.365	1.120	1.385	1.290	1.3434	7.76
47)	s	1,2-dichloroethane-D4	0.477	0.479	0.494	0.469	0.484	0.379	0.483	0.464	0.4662	7.79
48)	C	1,1,1-trichloroethane	1.015	0.947	0.962	0.918	1.004	0.799	0.940	0.851	0.9296	7.89
49)		1,1-dichloropropene	0.588	0.525	0.537	0.547	0.549	0.441	0.526	0.502	0.5269	8.09
50)	C	benzene	1.146	1.028	0.982	0.966	0.970	0.789	0.962	0.923	0.9705	10.29
51)		thiophene	0.764	0.709	0.736	0.695	0.702	0.569	0.694	0.641	0.6887	8.73
52)	C	carbon tetrachloride	0.906	0.818	0.915	0.898	0.886	0.710	0.836	0.700	0.8336	10.35
53)		cyclohexane	0.676	0.652	0.644	0.645	0.636	0.513	0.611	0.572	0.6185	8.53
54)		tert-amyl methyl ether	1.148	1.107	1.130	1.169	1.177	0.987	1.204	1.204	1.1406	6.20
55)		dibromomethane	0.672	0.633	0.621	0.615	0.618	0.499	0.608	0.585	0.6063	8.21
56)	C	1,2-dichloropropane	0.622	0.612	0.547	0.565	0.578	0.472	0.571	0.546	0.5641	8.22
57)		bromodichloromethane	1.075	1.074	1.095	1.144	1.149	0.955	1.180	1.141	1.1016	6.39
58)	C	1,4-dioxane	0.269	0.275	0.301	0.310	0.316	0.266	0.331	0.322	0.2988	8.46
59)	C	trichloroethene	0.764	0.631	0.677	0.685	0.681	0.556	0.674	0.645	0.6641	8.85
60)	C	2,2,4-trimethylpentane	2.980	2.770	2.840	2.967	2.977	2.403	2.874	2.560	2.7964	7.58
61)		methyl methacrylate	0.812	0.854	0.834	0.887	0.936	0.796	0.972	0.893	0.8730	6.96
62)		heptane	1.404	1.250	1.281	1.310	1.319	1.091	1.305	1.153	1.2641	7.87

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		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichloropropene	0.595	0.562	0.601	0.674	0.715	0.612	0.757	0.747	0.6579	11.47
64)	C	4-methyl-2-pentanone	1.796	1.678	1.746	1.875	1.895	1.542	1.839	1.660	1.7540	6.93
65)		trans-1,3-dichloropropene	0.539	0.518	0.561	0.668	0.729	0.622	0.793	0.776	0.6506	16.58
66)	C	1,1,2-trichloroethane	0.579	0.536	0.555	0.579	0.590	0.481	0.592	0.576	0.5609	6.65
67)	I	chlorobenzene-D5	----------	ISTD	----------							
68)	C	toluene	5.300	4.949	4.770	4.784	4.609	4.541	4.290	4.363	4.7007	6.96
69)	s	toluene-D8	3.345	3.332	3.364	3.201	3.098	3.042	3.148	3.574	3.2630	5.33
70)		2-methylthiophene	4.092	3.963	3.955	3.945	3.881	3.916	3.737	3.826	3.9142	2.68
71)		1,3-dichloropropane	2.453	2.184	2.174	2.196	2.110	2.083	1.969	1.987	2.1445	7.07
72)		2-hexanone	4.387	4.838	4.725	5.115	4.912	4.796	4.367	3.783	4.6153	9.12
73)		3-methylthiophene	4.092	3.963	3.955	3.945	3.881	3.916	3.737	3.826	3.9142	2.68
74)		dibromochloromethane	3.321	2.955	2.975	3.236	3.241	3.339	3.281	3.225	3.1967	4.64
75)	C	1,2-dibromoethane	2.707	2.551	2.579	2.545	2.536	2.566	2.525	2.596	2.5755	2.25
76)		butyl acetate	0.319	0.375	0.401	0.447	0.461	0.472	0.450	0.460	0.4232	12.70
77)		octane	1.329	1.296	1.249	1.254	1.206	1.181	1.162	1.164	1.2301	5.06
78)	C	tetrachloroethene	2.142	2.369	2.225	2.191	2.184	2.271	2.362	2.380	2.2654	4.17
79)		1,1,1,2-tetrachloroethane	2.505	2.449	2.366	2.320	2.245	2.251	2.137	1.967	2.2801	7.57
80)	C	chlorobenzene	4.125	3.725	3.578	3.699	3.657	3.752	3.698	3.632	3.7332	4.48
81)	C	ethylbenzene	5.919	5.604	5.644	6.049	5.999	6.052	5.879	5.853	5.8749	2.92
82)		2-ethylthiophene	3.825	3.844	4.044	4.184	4.198	4.452	4.322	4.280	4.1436	5.40
83)	C	m+p-xylene	4.553	4.413	4.558	4.744	4.737	4.813	4.639	4.404	4.6076	3.31
84)	C	bromoform	2.243	2.200	2.324	2.645	2.769	3.030	3.272	3.234	2.7146	16.04
85)	C	styrene	2.699	2.694	2.947	3.371	3.461	3.627	3.607	3.669	3.2595	12.75
86)	C	1,1,2,2-tetrachloroethane	4.038	3.601	3.476	3.522	3.490	3.494	3.272	2.953	3.4806	8.75
87)	C	o-xylene	4.546	4.714	4.847	5.084	5.041	5.033	4.703	4.267	4.7792	5.90
88)		1,2,3-trichloropropane	2.742	2.603	2.643	2.649	2.590	2.617	2.545	2.552	2.6177	2.40
89)		nonane	5.680	5.625	5.626	5.786	5.510	5.336	4.725	3.859	5.2682	12.50
90)	s	bromofluorobenzene	1.999	2.004	1.999	2.028	2.074	2.129	2.303	2.633	2.1462	10.33
91)	C	isopropylbenzene	7.053	7.020	6.921	7.238	7.019	6.962	6.574	6.161	6.8685	4.97
92)		bromobenzene	2.930	2.896	2.884	3.078	3.107	3.234	3.291	3.317	3.0920	5.71
93)		2-chlorotoluene	1.560	1.512	1.640	1.733	1.740	1.778	1.761	1.700	1.6780	5.84

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50 =R730774.D 100 =R730775.D

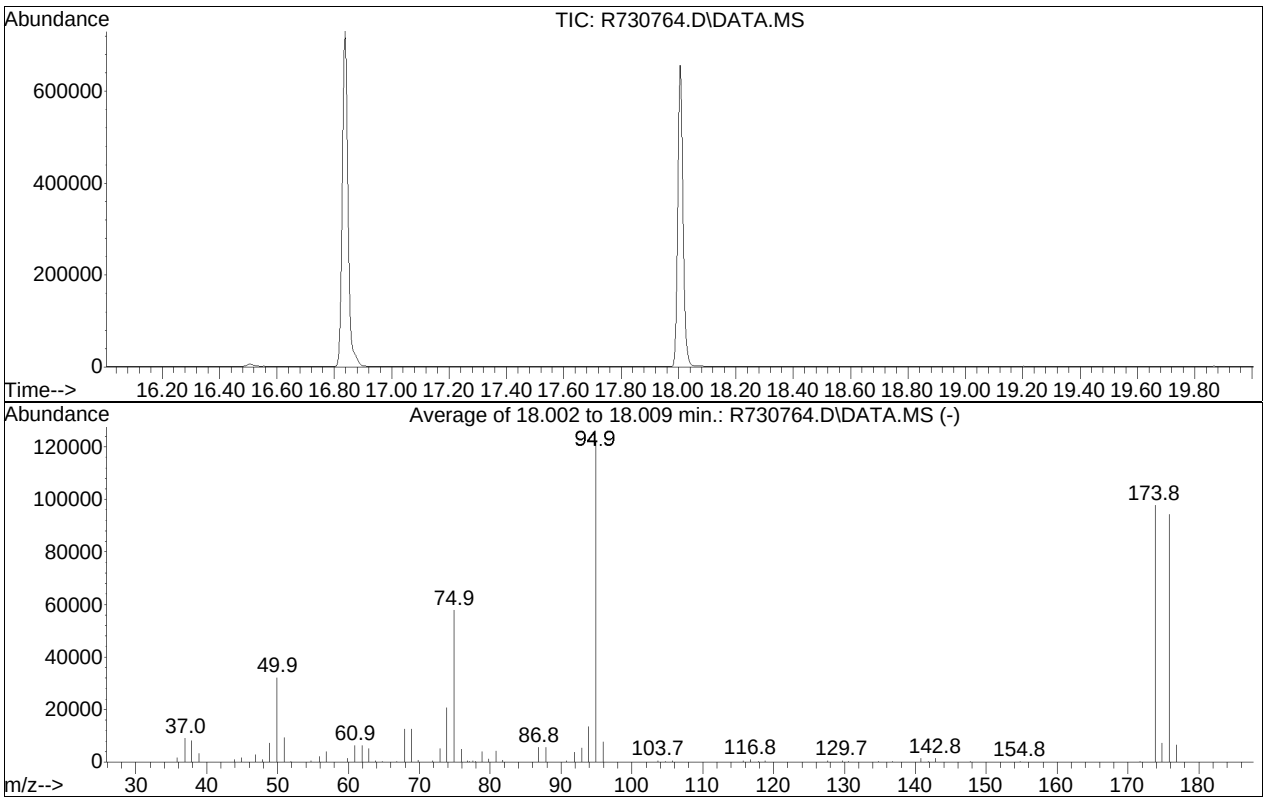
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	1.743	1.704	1.726	1.871	1.873	1.903	1.883	1.766	1.8086	4.50
95)		4-chlorotoluene	4.335	4.163	4.196	4.656	4.728	4.808	4.878	4.883	4.5809	6.61
96)		4-ethyl toluene	6.562	6.550	6.652	7.219	7.328	7.494	7.280	6.649	6.9669	5.71
97)		1,3,5-trimethylbenzene	5.677	5.787	6.023	6.248	6.134	6.116	5.948	5.489	5.9278	4.35
98)		tert-butylbenzene	7.069	6.644	6.827	7.266	6.949	6.845	6.080	4.847	6.5656	11.84
99)		1,2,4-trimethylbenzene	5.337	5.255	5.553	6.193	6.165	6.204	5.680	4.511	5.6122	10.47
100)		decane	4.676	4.808	4.940	5.171	4.947	4.822	4.288	3.682	4.6669	10.13
101)	C	Benzyl Chloride	2.613	2.500	2.615	3.395	3.814	4.348	4.743	4.829	3.6072	26.96
102)		1,3-dichlorobenzene	3.306	3.226	3.158	3.442	3.553	3.823	4.059	3.714	3.5350	8.87
103)	C	1,4-dichlorobenzene	3.348	3.033	3.160	3.396	3.525	3.782	3.997	3.408	3.4562	9.08
104)		sec-butylbenzene	9.335	8.940	9.373	9.866	9.559	9.397	8.631	7.079	9.0223	9.64
105)		1,2,3-trimethylbenzene	5.132	5.105	5.275	5.462	5.350	5.632	5.281	4.382	5.2024	7.17
106)		p-isopropyltoluene	7.278	7.579	7.649	8.656	8.477	8.480	7.602	5.896	7.7019	11.60
107)		1,2-dichlorobenzene	3.203	3.062	3.067	3.409	3.500	3.660	3.859	3.816	3.4468	9.23
108)		n-butylbenzene	6.151	6.311	6.599	7.256	7.294	7.280	6.970	6.348	6.7762	7.08
109)		indan	4.471	4.670	4.781	5.147	5.126	5.405	5.376	5.067	5.0055	6.68
110)		indene	2.612	2.436	2.630	2.837	2.952	3.207	3.296	3.411	2.9227	12.18
111)	C	1,2-dibromo-3-chloropropane	1.422	1.436	1.441	1.616	1.701	1.691	1.759	1.711	1.5971	8.86
112)		undecane	4.812	5.101	5.379	6.221	6.113	5.664	5.013	4.138	5.3052	13.05
113)		1,2,4,5-tetramethylbenzene	0.958	1.001	1.076	1.310	1.301	1.220	1.104	0.880	1.1064	14.40
114)		dodecane	4.721	5.114	5.550	6.968	6.870	6.113	5.117	3.686	5.5173	20.09
115)	C	1,2,4-trichlorobenzene	2.249	2.208	2.288	2.792	2.934	3.027	3.127	2.366	2.6239	14.64
116)		naphthalene	4.939	5.374	5.439	6.989	7.281	7.101	7.673	7.187	6.4977	16.34
117)		1,2,3-trichlorobenzene	2.266	2.237	2.271	2.783	2.910	2.939	3.340	3.155	2.7378	15.74
118)		benzothiophene		4.848	5.148	6.046	6.377	6.680	7.220	6.816	6.1621	14.26
119)	C	hexachlorobutadiene	3.429	3.053	3.101	3.679	3.696	3.772	3.600	2.524	3.3567	12.87
120)		2-methylnaphthalene			2.251	3.012	3.284	3.500	4.004	4.009	3.3434	19.88
121)		1-methylnaphthalene			2.271	2.660	2.849	3.203	3.559	3.538	3.0133	17.01

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730764.D
Acq On : 28 Mar 2015 2:28 pm
Operator : AIRLAB7:MB
Sample : WG771893-1,3,250,250
Misc : WG771893
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Mar 29 07:59:36 2015



AutoFind: Scans 2076, 2077, 2078; Background Corrected with Scan 2067

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.4	32085	PASS
75	95	30	66	47.6	57904	PASS
95	95	100	100	100.0	121600	PASS
96	95	5	9	6.3	7720	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	80.4	97773	PASS
175	174	4	9	7.4	7195	PASS
176	174	93	101	96.4	94219	PASS
177	176	5	9	6.8	6452	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:46:15 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:10 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.465	49	167165	10.000	ppbV	0.00
Standard Area = 171708			Recovery = 97.35%			
43) 1,4-difluorobenzene	12.557	114	273913	10.000	ppbV	0.01
Standard Area = 281554			Recovery = 97.29%			
67) chlorobenzene-D5	16.838	54	86821	10.000	ppbV	0.00
Standard Area = 105394			Recovery = 82.38%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.290	65	130778	9.874	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.74%			
69) toluene-D8	15.181	98	290394	10.795	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.95%			
90) bromofluorobenzene	18.005	95	173559	9.636	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.36%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.704	51	6558	0.224	ppbV	97
3) propylene	4.744	41	3051M6	0.199	ppbV	
4) propane	4.773	29	4654M4	0.254	ppbV	
5) dichlorodifluoromethane	4.842	85	5490	0.218	ppbV	98
6) chloromethane	5.059	50	3916	0.265	ppbV	89
7) Freon-114	5.217	85	7445	0.217	ppbV	94
8) methanol	5.306	31	9354	1.400	ppbV #	4
9) vinyl chloride	5.355	62	2608	0.200	ppbV #	86
10) 1,3-butadiene	5.552	54	2162	0.193	ppbV	93
11) butane	5.631	43	6850	0.252	ppbV	91
12) acetaldehyde	5.237	29	15078M4	1.317	ppbV	
13) bromomethane	5.912	94	2598	0.234	ppbV #	76
14) chloroethane	6.144	64	1170	0.198	ppbV	98
15) ethanol	6.352	31	14623	1.026	ppbV	89
16) dichlorofluoromethane	6.288	67	5640	0.207	ppbV #	92
17) vinyl bromide	6.600	106	2477	0.218	ppbV	85
18) acrolein	6.768	56	1195	0.204	ppbV #	74
19) acetone	6.959	43	32174	1.204	ppbV #	98
20) acetonitrile	6.608	41	3291	0.202	ppbV #	61
21) trichlorofluoromethane	7.127	101	8232	0.225	ppbV	97
22) isopropyl alcohol	7.311	45	7033	0.239	ppbV #	91
23) acrylonitrile	7.511	53	2364	0.214	ppbV	96
24) pentane	7.575	43	6583	0.206	ppbV #	87

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:46:15 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:10 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	7.639	31	5060	0.207	ppbV	#	89
26) 1,1-dichloroethene	7.895	61	5051	0.221	ppbV		91
27) tertiary butyl alcohol	8.071	59	5866	0.219	ppbV	#	88
28) methylene chloride	8.055	49	6635	0.316	ppbV		99
29) 3-chloropropene	8.191	41	5152	0.220	ppbV		87
30) carbon disulfide	8.366	76	7418	0.221	ppbV	#	61
31) Freon 113	8.366	101	5881	0.233	ppbV	#	83
32) trans-1,2-dichloroethene	9.131	61	4770	0.229	ppbV		95
33) 1,1-dichloroethane	9.363	63	5384	0.225	ppbV		98
34) MTBE	9.485	73	7093	0.231	ppbV		92
35) vinyl acetate	9.556	43	5726	0.196	ppbV	#	89
36) 2-butanone	9.849	43	9162	0.229	ppbV	#	97
37) cis-1,2-dichloroethene	10.287	61	4153	0.231	ppbV		95
38) Ethyl Acetate	10.578	61	891	0.217	ppbV	#	1
39) chloroform	10.615	83	5605	0.221	ppbV	#	87
40) Tetrahydrofuran	11.103	42	4423M6	0.218	ppbV		
41) 2,2-dichloropropane	10.634	77	4485	0.214	ppbV	#	95
42) 1,2-dichloroethane	11.409	62	4056	0.204	ppbV	#	91
44) hexane	10.522	57	4649	0.230	ppbV	#	1
45) diisopropyl ether	10.559	87	1703	0.214	ppbV		77
46) tert-butyl ethyl ether	11.145	59	8015	0.214	ppbV		96
48) 1,1,1-trichloroethane	11.687	97	5563	0.202	ppbV	#	87
49) 1,1-dichloropropene	12.018	75	3223	0.214	ppbV		95
50) benzene	12.184	78	6279	0.236	ppbV	#	84
51) thiophene	12.318	84	4185	0.218	ppbV	#	79
52) carbon tetrachloride	12.339	117	4965	0.205	ppbV		97
53) cyclohexane	12.474	56	3706	0.213	ppbV	#	81
54) tert-amyl methyl ether	12.857	73	6288	0.195	ppbV	#	86
55) dibromomethane	13.033	93	3680	0.218	ppbV		95
56) 1,2-dichloropropane	13.064	63	3408	0.215	ppbV	#	84
57) bromodichloromethane	13.282	83	5890	0.187	ppbV		92
58) 1,4-dioxane	13.375	88	1476	0.171	ppbV	#	82
59) trichloroethene	13.323	130	4185	0.224	ppbV		92
60) 2,2,4-trimethylpentane	13.354	57	16324	0.200	ppbV	#	98
61) methyl methacrylate	13.541	41	4449	0.174	ppbV		96
62) heptane	13.634	43	7693	0.213	ppbV	#	87
63) cis-1,3-dichloropropene	14.265	75	3259	0.166	ppbV	#	77
64) 4-methyl-2-pentanone	14.367	43	9840	0.190	ppbV		100
65) trans-1,3-dichloropropene	14.819	75	2951	0.148	ppbV		96
66) 1,1,2-trichloroethane	15.009	97	3171	0.196	ppbV		86

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:46:15 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:10 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	15.280	91	9203	0.230	ppbV		94
70) 2-methylthiophene	15.343	97	7106	0.211	ppbV		92
71) 1,3-dichloropropane	15.307	76	4259	0.233	ppbV	#	93
72) 2-hexanone	15.569	43	7618	0.179	ppbV	#	99
73) 3-methylthiophene	15.343	97	7106	0.211	ppbV		92
74) dibromochloromethane	15.687	129	5766	0.205	ppbV		92
75) 1,2-dibromoethane	15.913	107	4701	0.214	ppbV		93
76) butyl acetate	16.112	73	554	0.138	ppbV		92
77) octane	16.166	85	2308	0.220	ppbV		75
78) tetrachloroethene	16.310	166	3719	0.196	ppbV		92
79) 1,1,1,2-tetrachloroethane	16.860	131	4350	0.223	ppbV		97
80) chlorobenzene	16.871	112	7162	0.226	ppbV		94
81) ethylbenzene	17.159	91	10278	0.197	ppbV		99
82) 2-ethylthiophene	17.196	97	6642	0.182	ppbV		92
83) m+p-xylene	17.311	91	15811	0.384	ppbV		91
84) bromoform	17.381	173	3894	0.162	ppbV		94
85) styrene	17.581	104	4687	0.156	ppbV		92
86) 1,1,2,2-tetrachloroethane	17.662	83	7011	0.231	ppbV		93
87) o-xylene	17.662	91	7893	0.180	ppbV		95
88) 1,2,3-trichloropropane	17.762	75	4762	0.212	ppbV		92
89) nonane	17.799	43	9862	0.206	ppbV		99
91) isopropylbenzene	18.098	105	12247	0.201	ppbV	#	87
92) bromobenzene	18.179	77	5087	0.189	ppbV		86
93) 2-chlorotoluene	18.464	126	2708	0.179	ppbV		94
94) n-propylbenzene	18.475	120	3027	0.186	ppbV		82
95) 4-chlorotoluene	18.508	91	7527	0.183	ppbV		96
96) 4-ethyl toluene	18.578	105	11395	0.179	ppbV		96
97) 1,3,5-trimethylbenzene	18.630	105	9858	0.185	ppbV		96
98) tert-butylbenzene	18.937	119	12274	0.203	ppbV		98
99) 1,2,4-trimethylbenzene	18.934	105	9267	0.173	ppbV		88
100) decane	18.982	57	8119	0.189	ppbV		97
101) Benzyl Chloride	19.052	91	4537	0.137	ppbV		99
102) 1,3-dichlorobenzene	19.063	146	5741	0.186	ppbV	#	87
103) 1,4-dichlorobenzene	19.115	146	5813	0.190	ppbV	#	91
104) sec-butylbenzene	19.133	105	16210	0.195	ppbV		98
105) 1,2,3-trimethylbenzene	19.255	105	8912	0.192	ppbV		100
106) p-isopropyltoluene	19.247	119	12637	0.172	ppbV		98
107) 1,2-dichlorobenzene	19.376	146	5561	0.183	ppbV	#	89
108) n-butylbenzene	19.564	91	10681	0.169	ppbV		97
109) indan	19.413	117	7764	0.174	ppbV	#	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:46:15 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:10 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

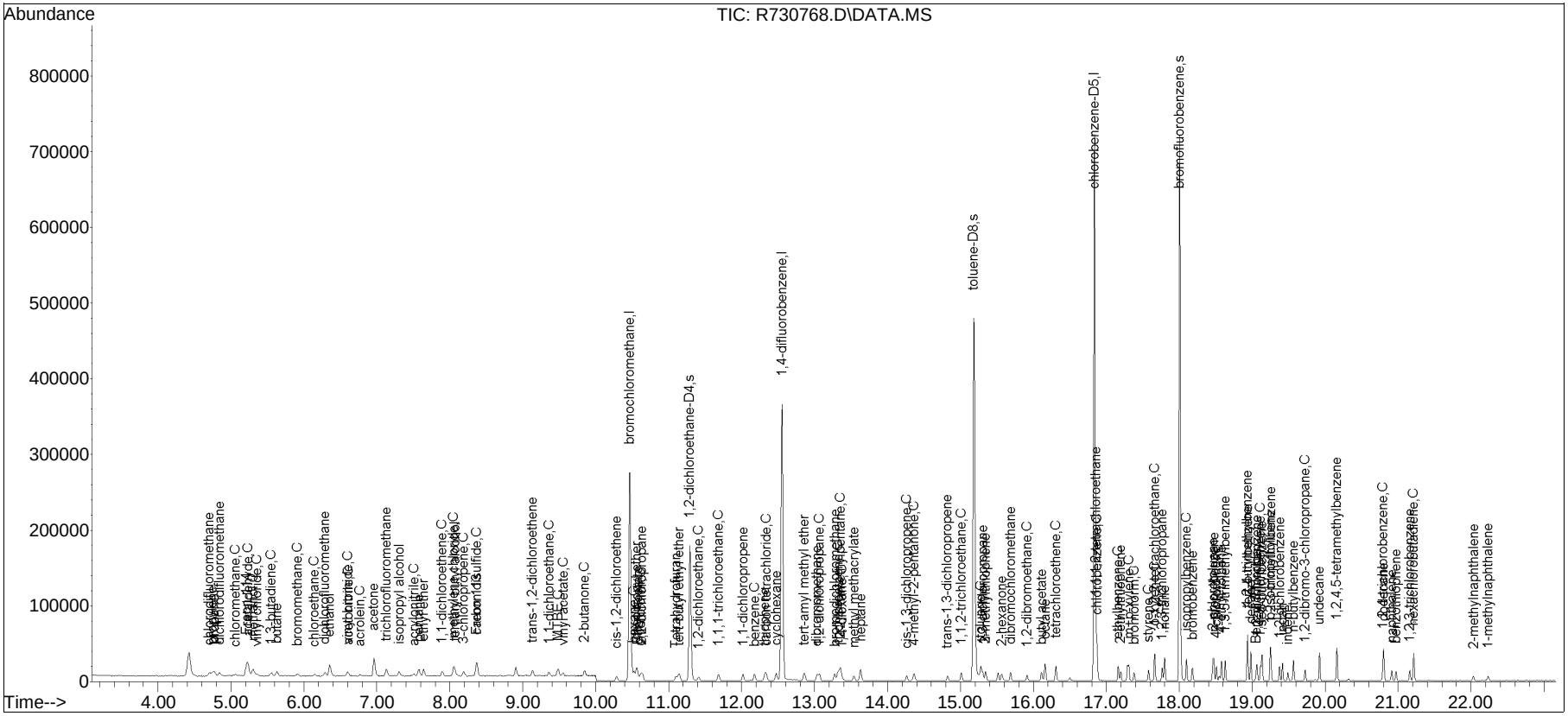
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.487	115	4536	0.177	ppbV		90
111) 1,2-dibromo-3-chloropr...	19.727	75	2469	0.167	ppbV		90
112) undecane	19.922	57	8355	0.157	ppbV		99
113) 1,2,4,5-tetramethylben...	20.158	119	16635	0.147	ppbV		96
114) dodecane	20.801	57	8198	0.137	ppbV		100
115) 1,2,4-trichlorobenzene	20.792	180	3905	0.153	ppbV		97
116) naphthalene	20.912	128	8576	0.136	ppbV		99
117) 1,2,3-trichlorobenzene	21.160	180	3935	0.156	ppbV		95
118) benzothiophene	20.972	134	8048	0.145	ppbV		97
119) hexachlorobutadiene	21.212	225	5954	0.186	ppbV		94
120) 2-methylnaphthalene	22.034	142	3303	0.116	ppbV	#	82
121) 1-methylnaphthalene	22.231	142	3075	0.124	ppbV		98

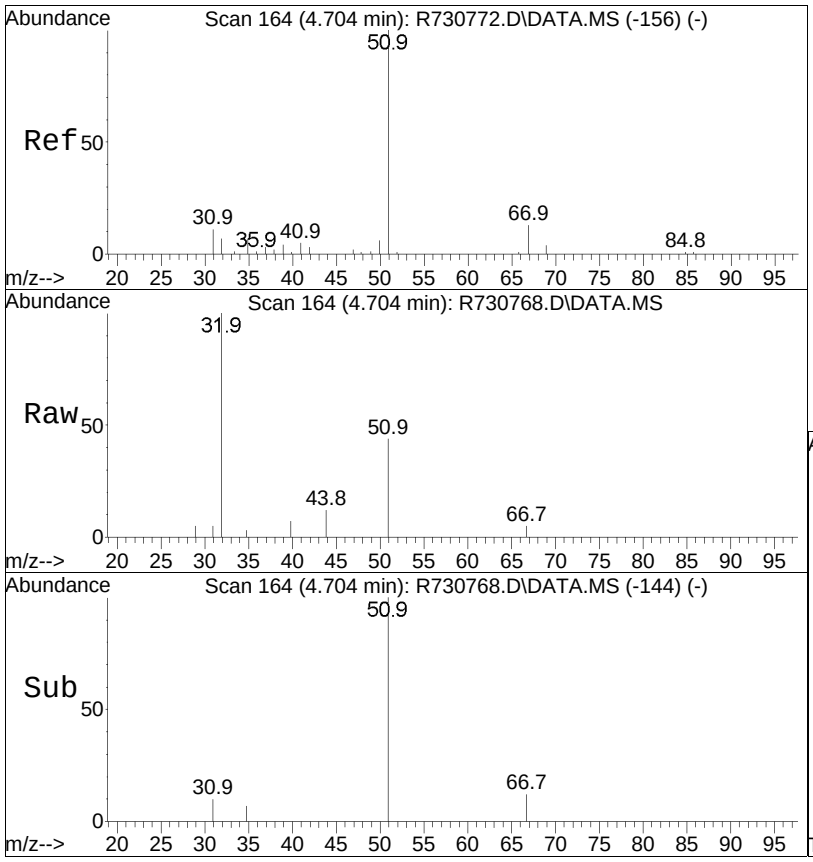
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed\150328T_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:46:15 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:10 2015
Response via : Initial Calibration

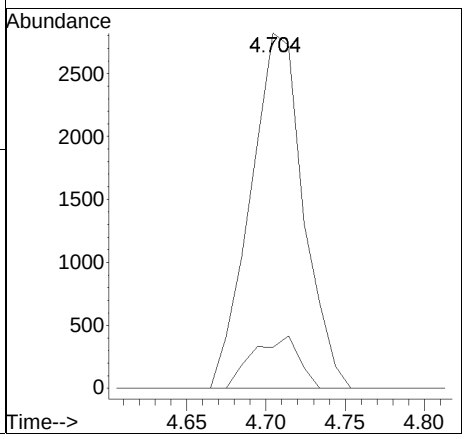


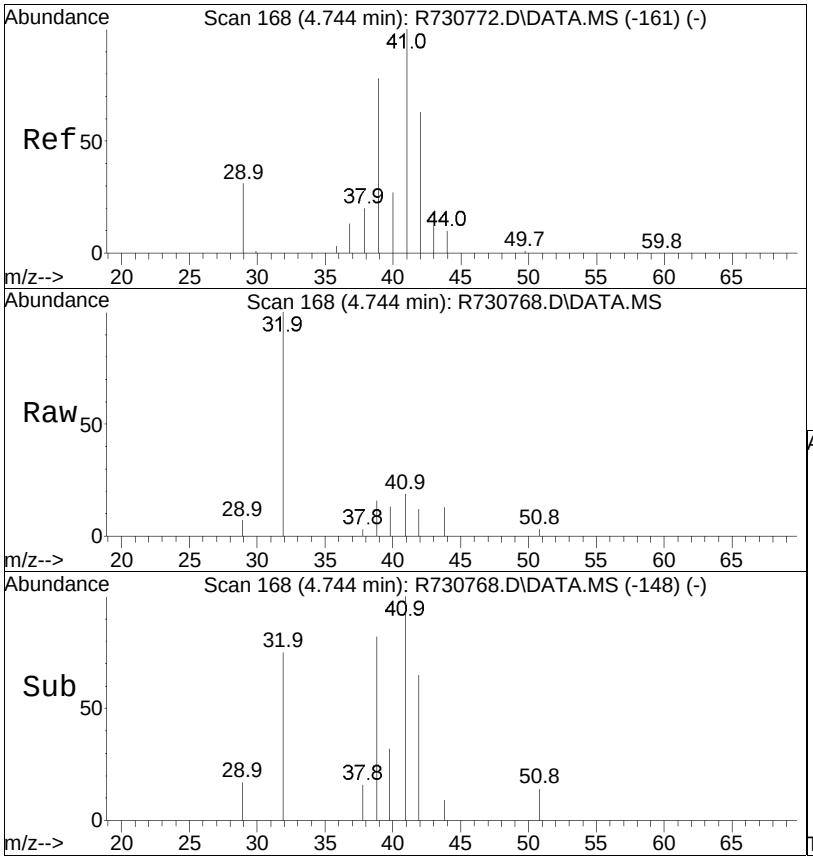


#2
chlorodifluoromethane
Concen: 0.22 ppbV
RT: 4.704 min Scan# 164
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 51 Resp: 6558

Ion	Ratio	Lower	Upper
51	100		
67	11.6	10.1	15.1

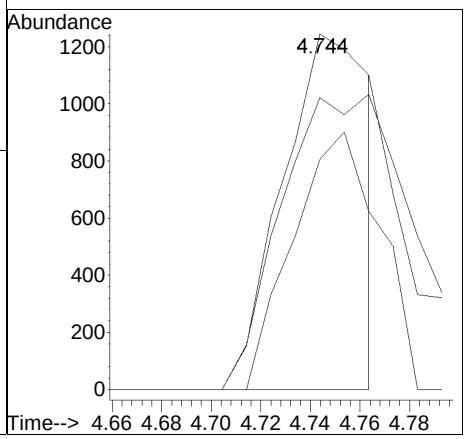


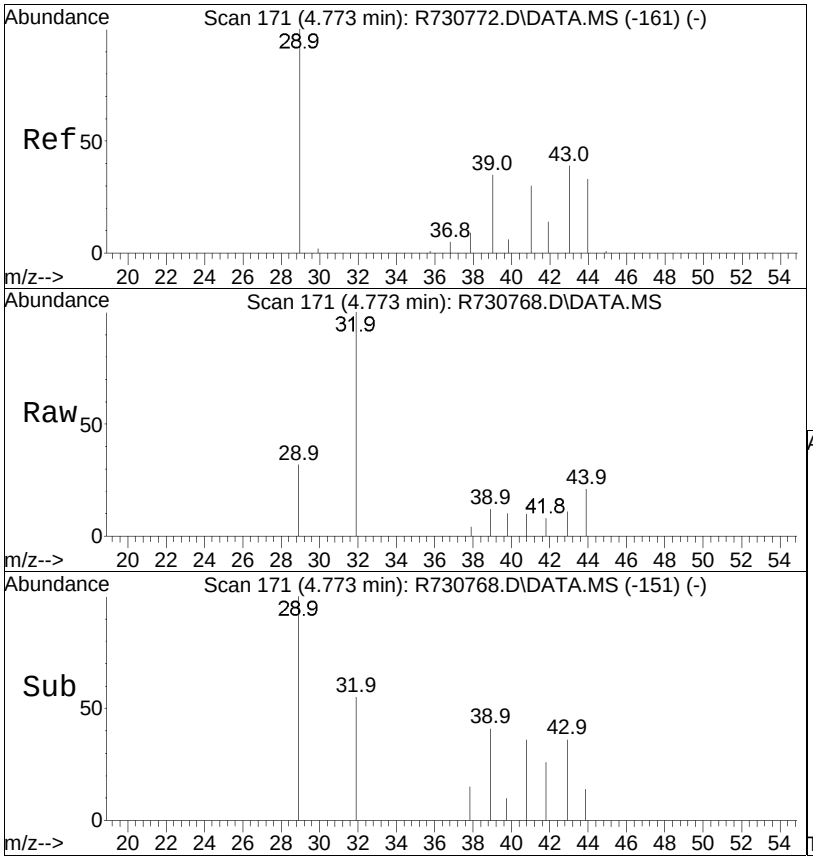


#3
propylene
Concen: 0.20 ppbV m
RT: 4.744 min Scan# 168
Delta R.T. -0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 41 Resp: 3051

Ion	Ratio	Lower	Upper
41	100		
42	64.7	50.2	75.2
39	82.1	62.6	94.0

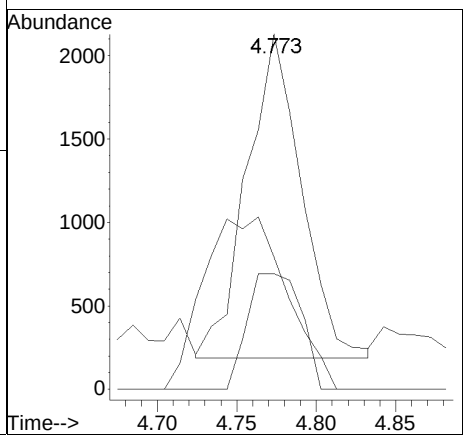


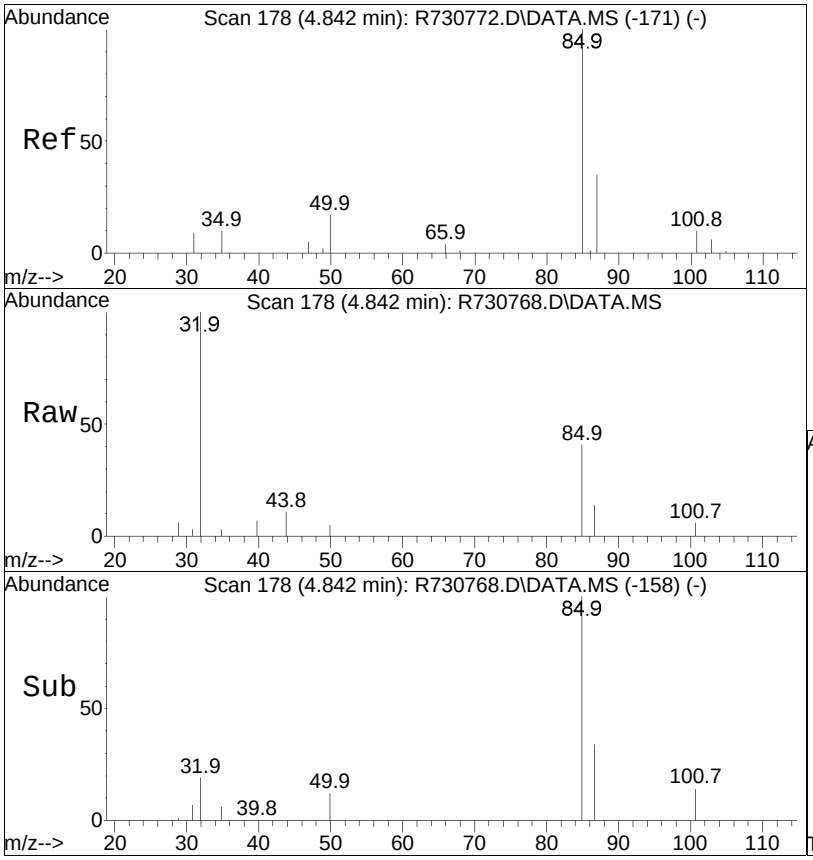


#4
propane
Concen: 0.25 ppbV m
RT: 4.773 min Scan# 171
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 29 Resp: 4654

Ion	Ratio	Lower	Upper
29	100		
43	32.6	31.3	46.9
39	37.3	27.8	41.6

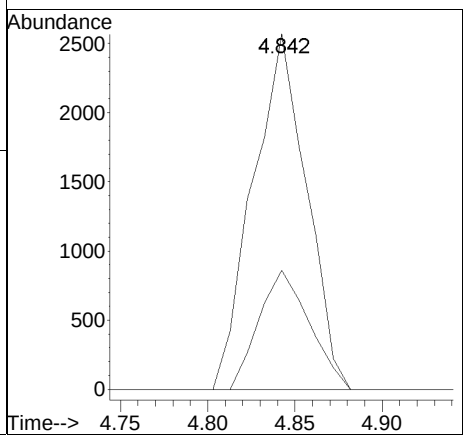


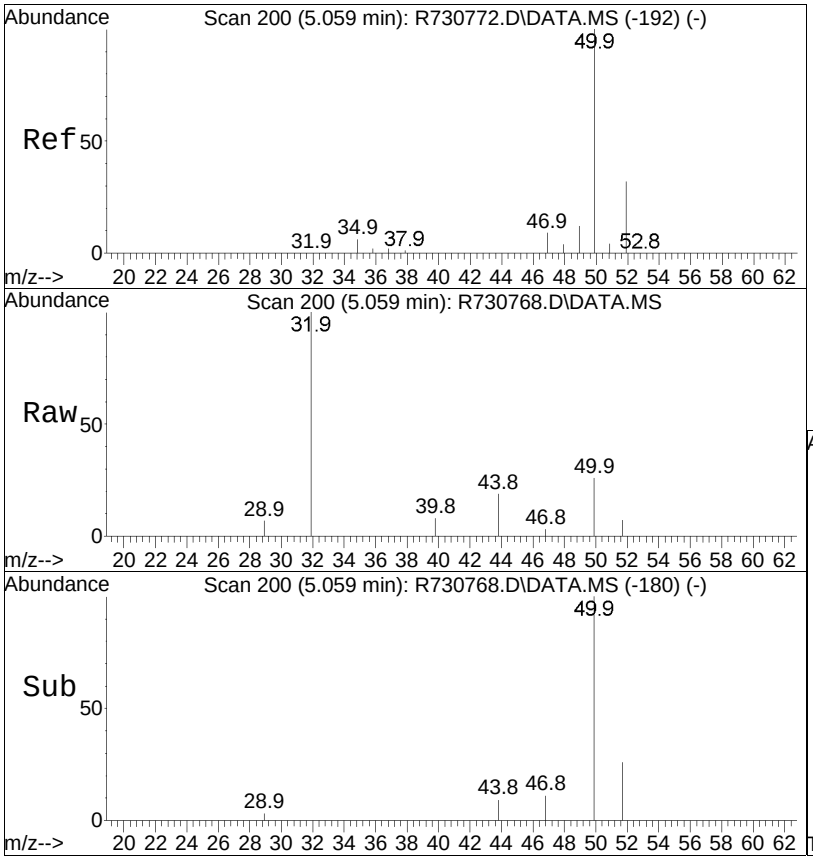


#5
dichlorodifluoromethane
Concen: 0.22 ppbV
RT: 4.842 min Scan# 178
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 85 Resp: 5490

Ion	Ratio	Lower	Upper
85	100		
87	33.5	27.7	41.5

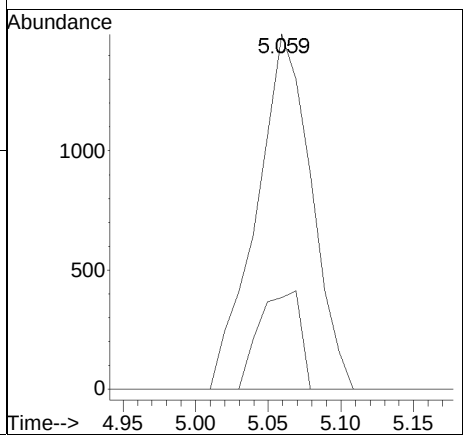


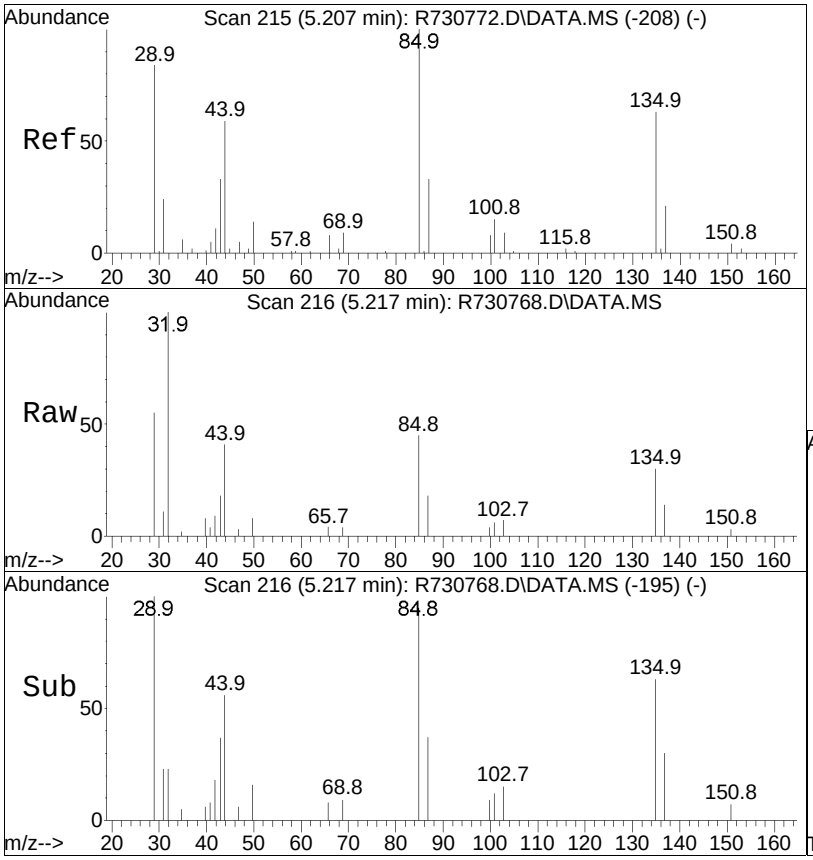


#6
chloromethane
Concen: 0.27 ppbV
RT: 5.059 min Scan# 200
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 50 Resp: 3916

Ion	Ratio	Lower	Upper
50	100		
52	25.8	25.7	38.5

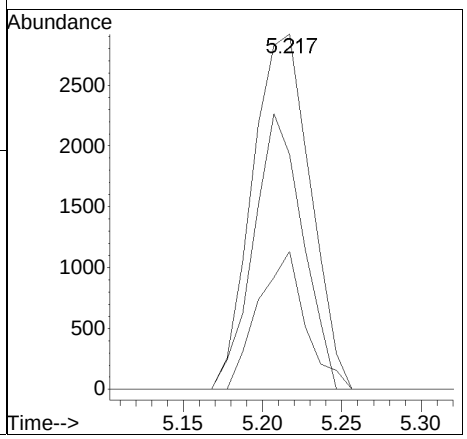


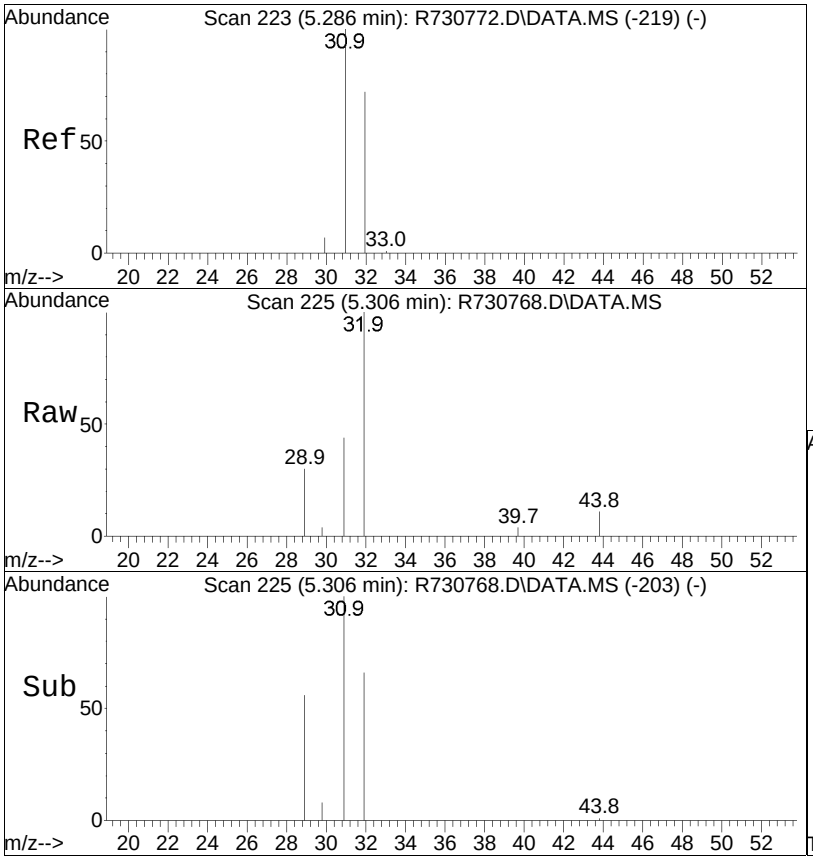


#7
Freon-114
Concen: 0.22 ppbV
RT: 5.217 min Scan# 216
Delta R.T. 0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 85 Resp: 7445

Ion	Ratio	Lower	Upper
85	100		
87	38.8	26.8	40.2
135	66.1	50.4	75.6

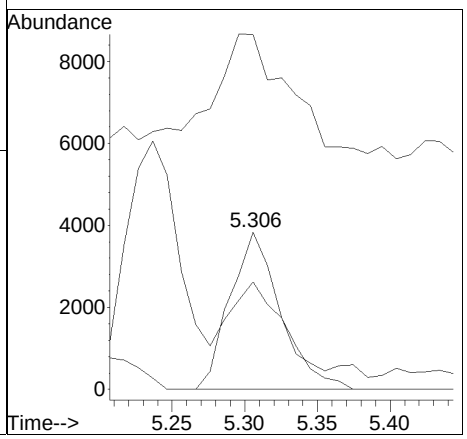


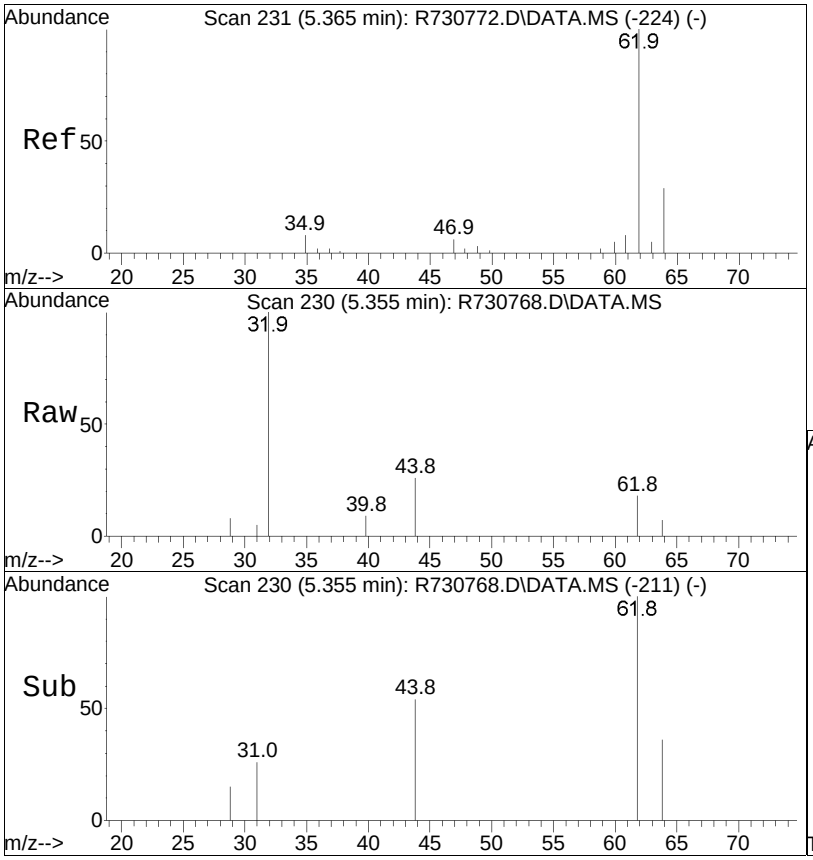


#8
methanol
Concen: 1.40 ppbV
RT: 5.306 min Scan# 225
Delta R.T. 0.020 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 31 Resp: 9354

Ion	Ratio	Lower	Upper
31	100		
32	225.8	60.8	91.2#
29	68.5	52.0	78.0

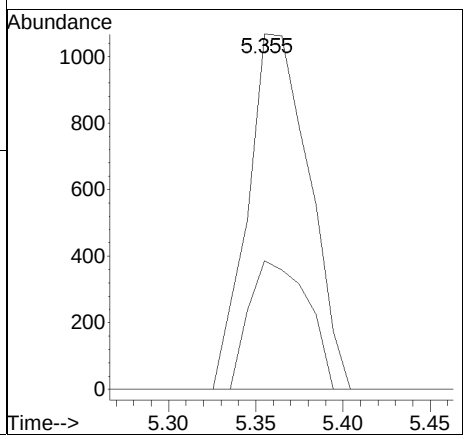


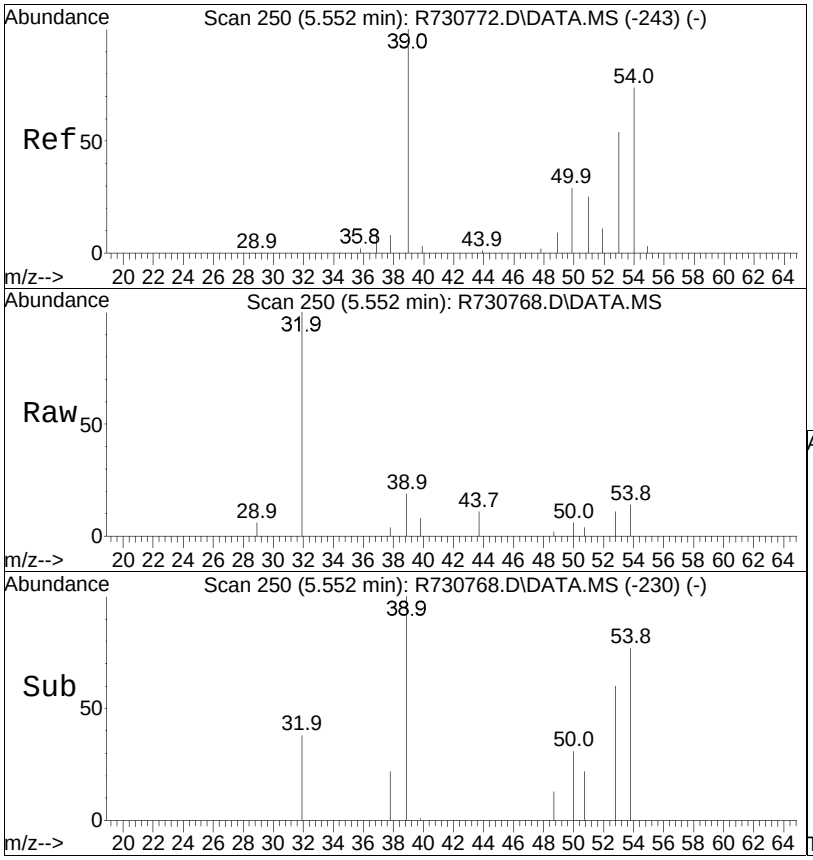


#9
vinyl chloride
Concen: 0.20 ppbV
RT: 5.355 min Scan# 230
Delta R.T. -0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 62 Resp: 2608

Ion	Ratio	Lower	Upper
62	100		
64	36.2	23.0	34.6#

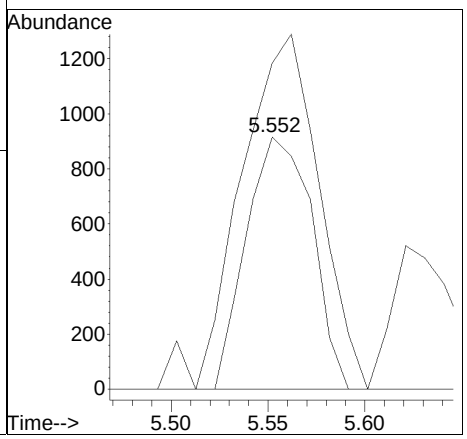


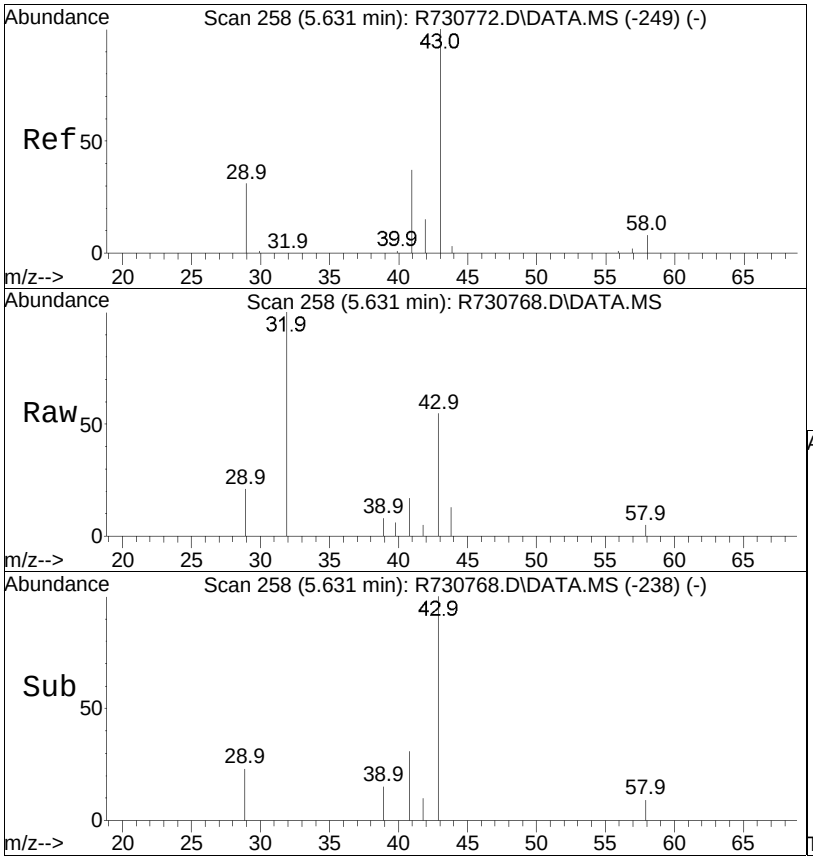


#10
1,3-butadiene
Concen: 0.19 ppbV
RT: 5.552 min Scan# 250
Delta R.T. -0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 54 Resp: 2162

Ion	Ratio	Lower	Upper
54	100		
39	129.3	109.8	164.8

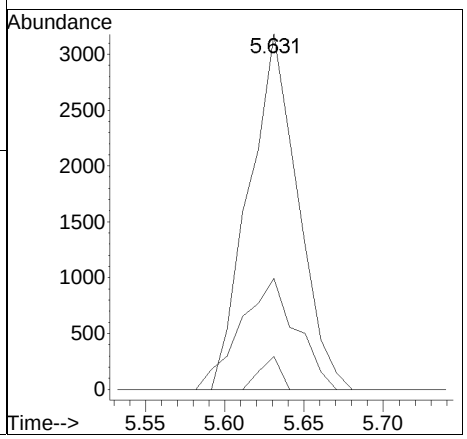


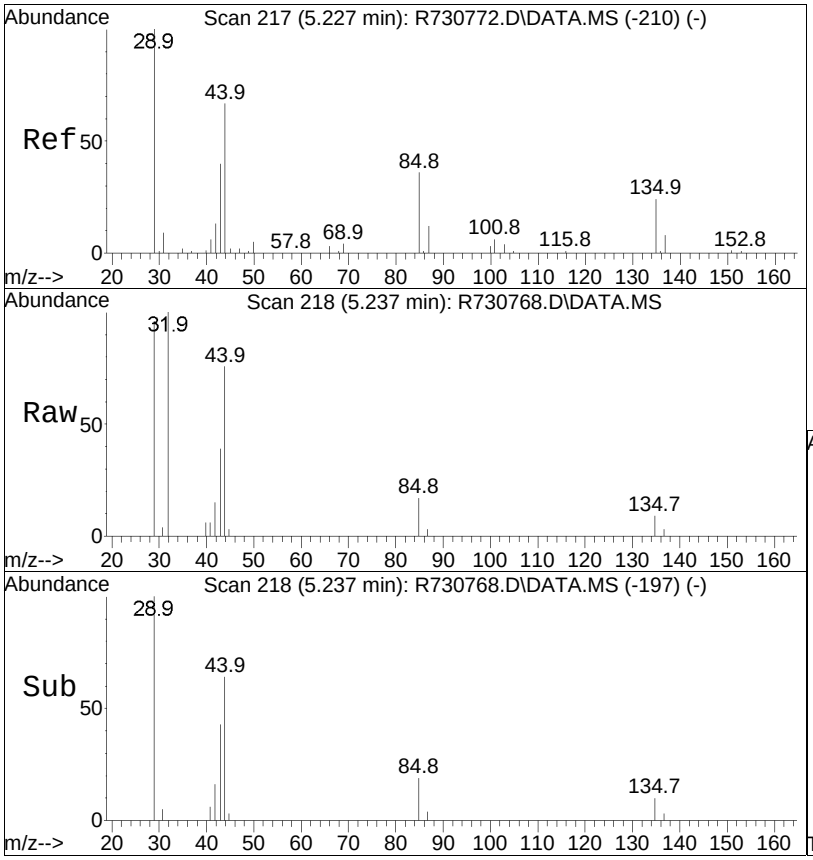


#11
butane
Concen: 0.25 ppbV
RT: 5.631 min Scan# 258
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 6850

Ion	Ratio	Lower	Upper
43	100		
58	9.3	6.2	9.4
41	31.3	29.5	44.3

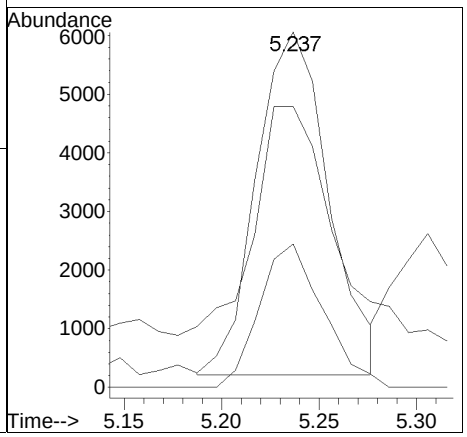


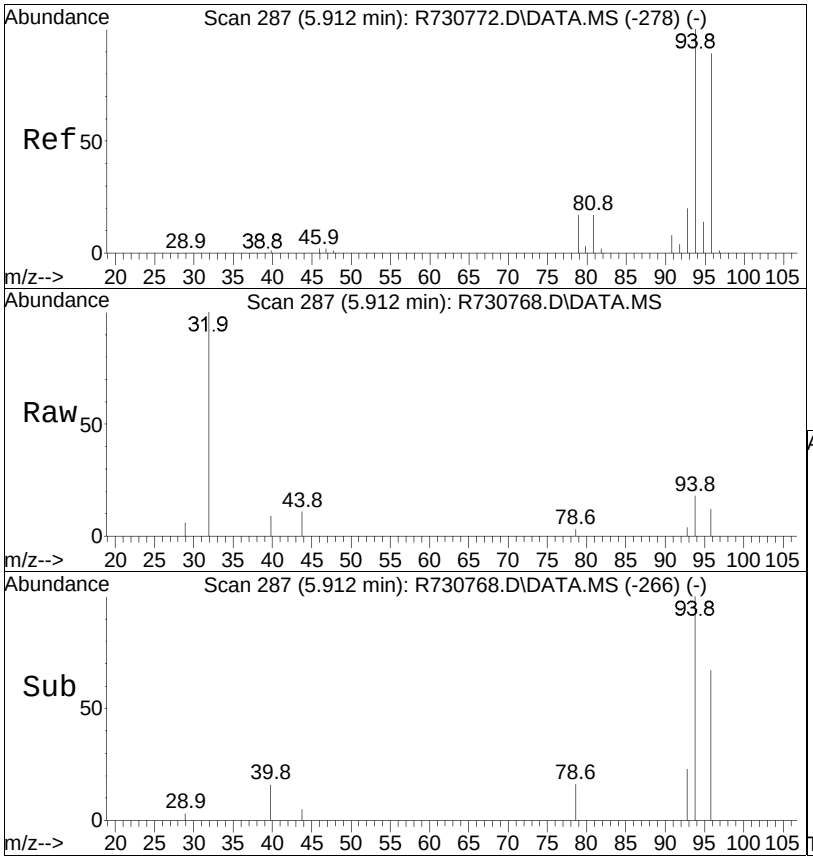


#12
acetaldehyde
Concen: 1.32 ppbV m
RT: 5.237 min Scan# 218
Delta R.T. 0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 29 Resp: 15078

Ion	Ratio	Lower	Upper
29	100		
44	79.0	54.2	81.4
43	40.4	31.8	47.8

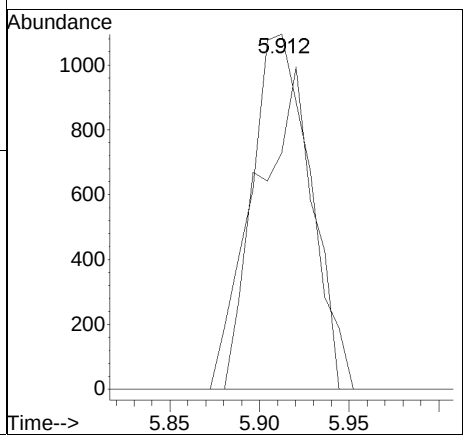


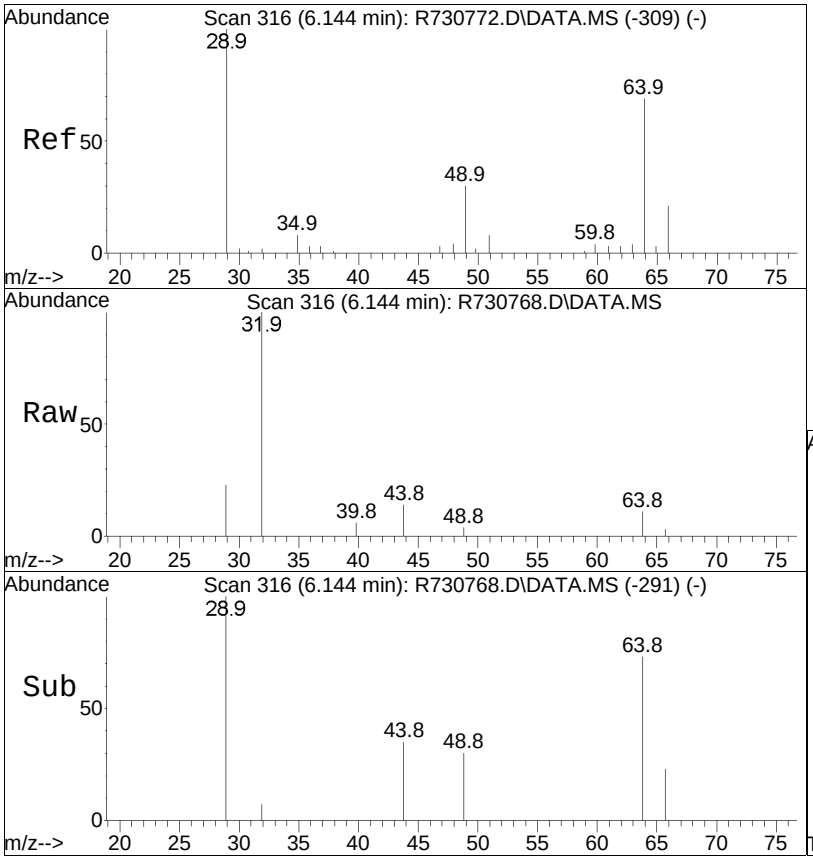


#13
bromomethane
Concen: 0.23 ppbV
RT: 5.912 min Scan# 287
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 94 Resp: 2598

Ion	Ratio	Lower	Upper
94	100		
96	66.7	71.4	107.2#

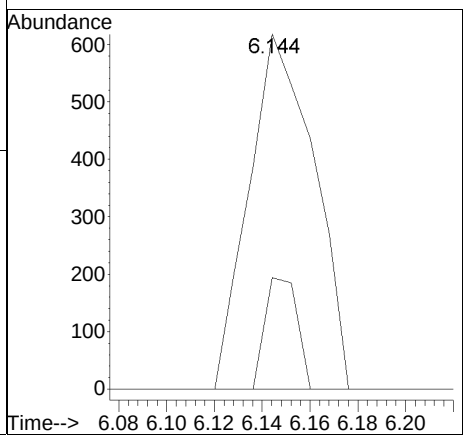


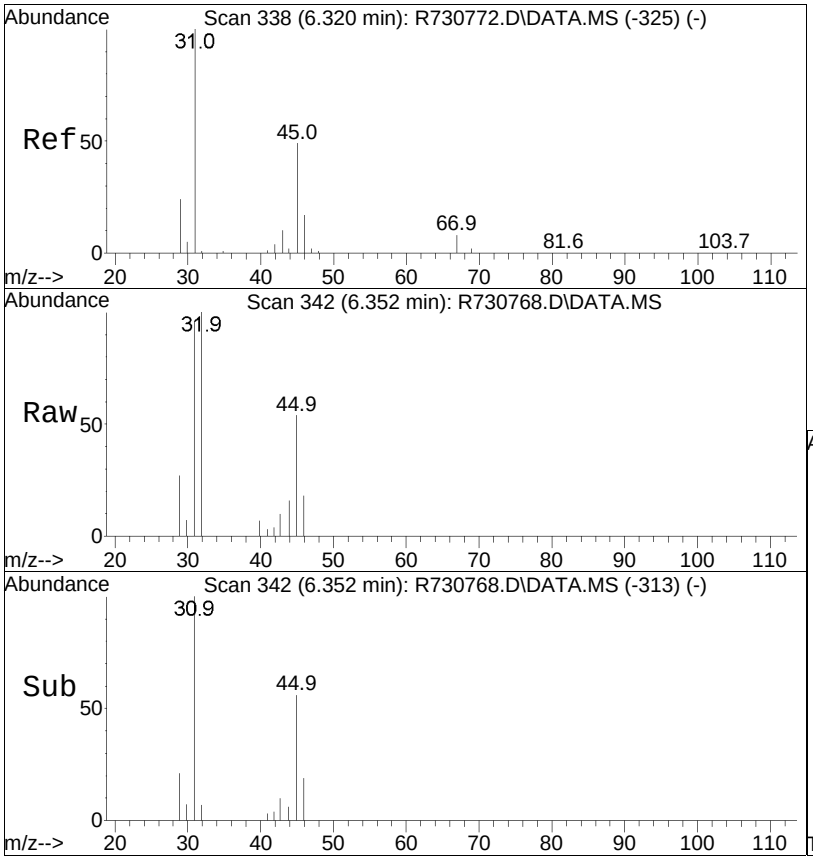


#14
chloroethane
Concen: 0.20 ppbV
RT: 6.144 min Scan# 316
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 64 Resp: 1170

Ion	Ratio	Lower	Upper
64	100		
66	31.4	24.3	36.5

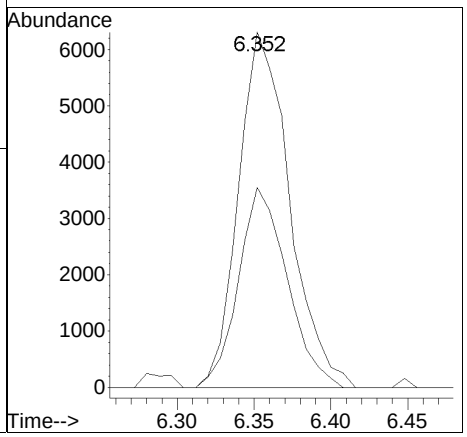


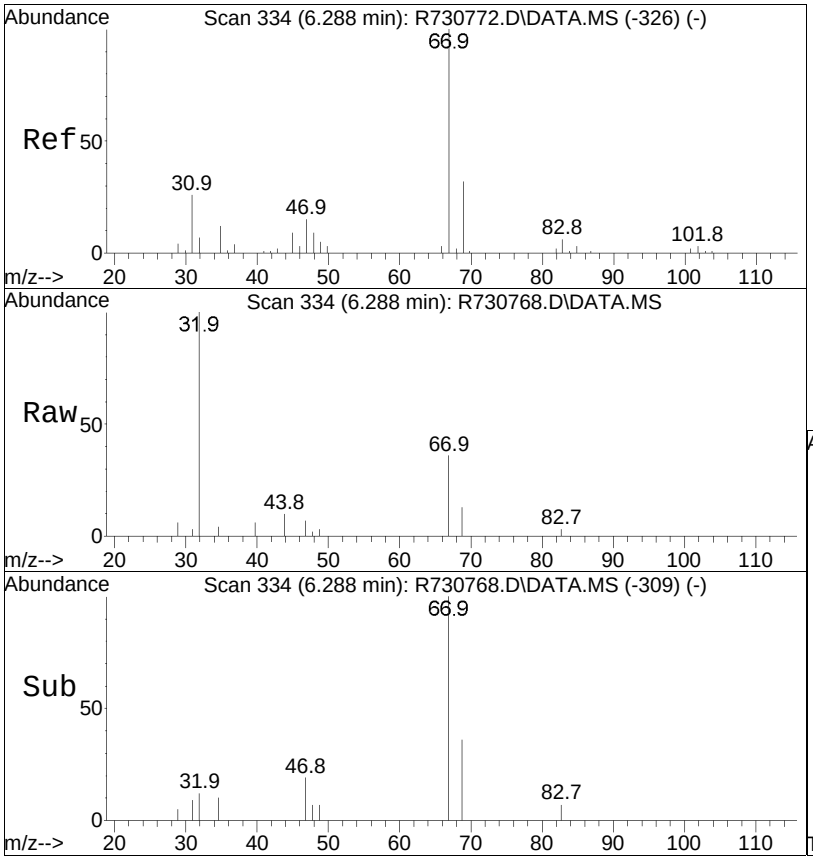


#15
ethanol
Concen: 1.03 ppbV
RT: 6.352 min Scan# 342
Delta R.T. 0.032 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 31 Resp: 14623

Ion	Ratio	Lower	Upper
31	100		
45	56.3	39.0	58.6

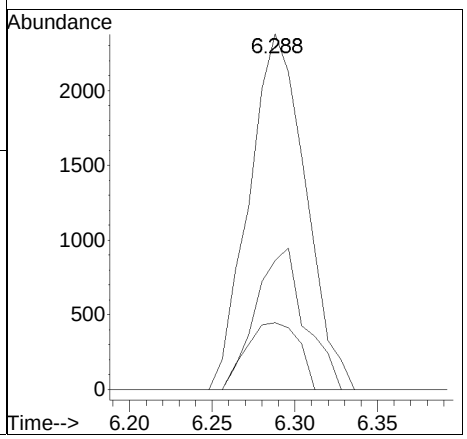


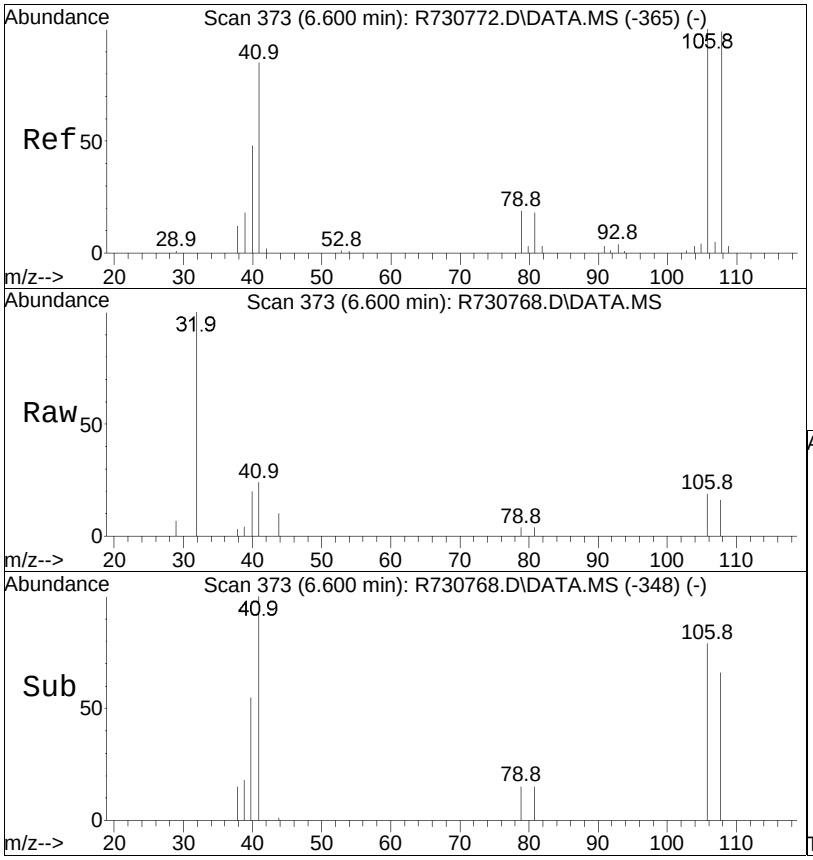


#16
dichlorofluoromethane
Concen: 0.21 ppbV
RT: 6.288 min Scan# 334
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 67 Resp: 5640

Ion	Ratio	Lower	Upper
67	100		
69	36.2	25.7	38.5
47	18.8	11.9	17.9#

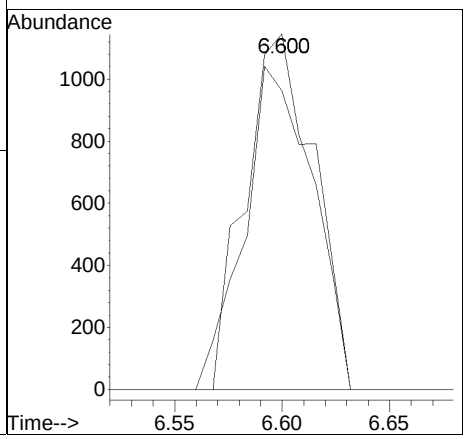


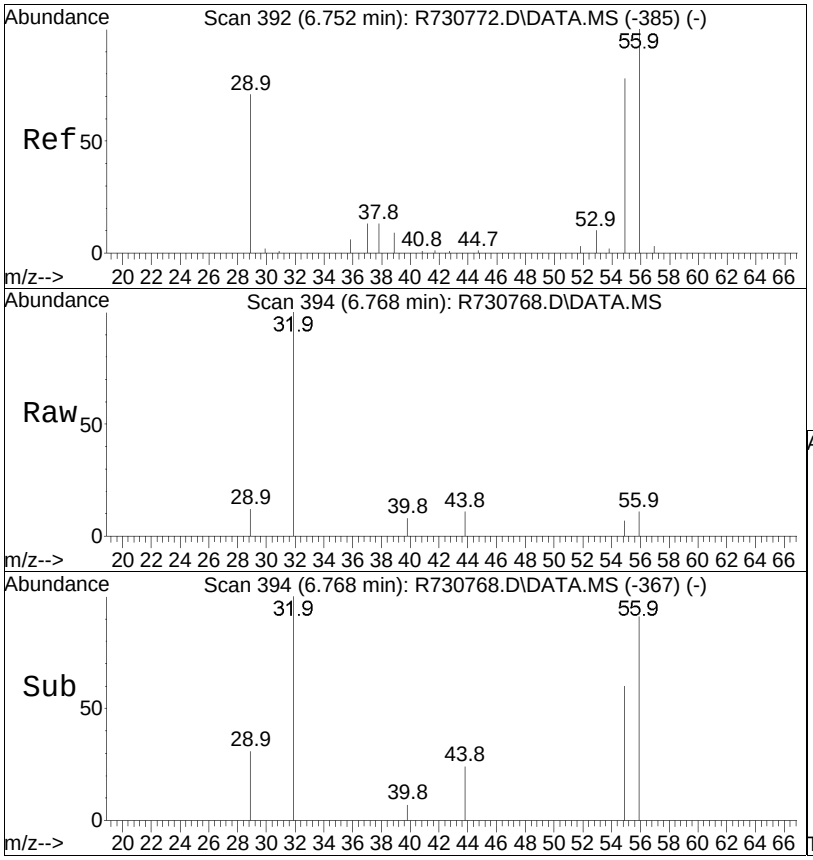


#17
vinyl bromide
Concen: 0.22 ppbV
RT: 6.600 min Scan# 373
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:106 Resp: 2477

Ion	Ratio	Lower	Upper
106	100		
108	84.1	79.4	119.0

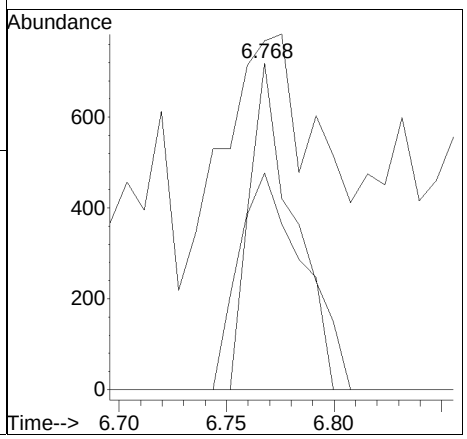


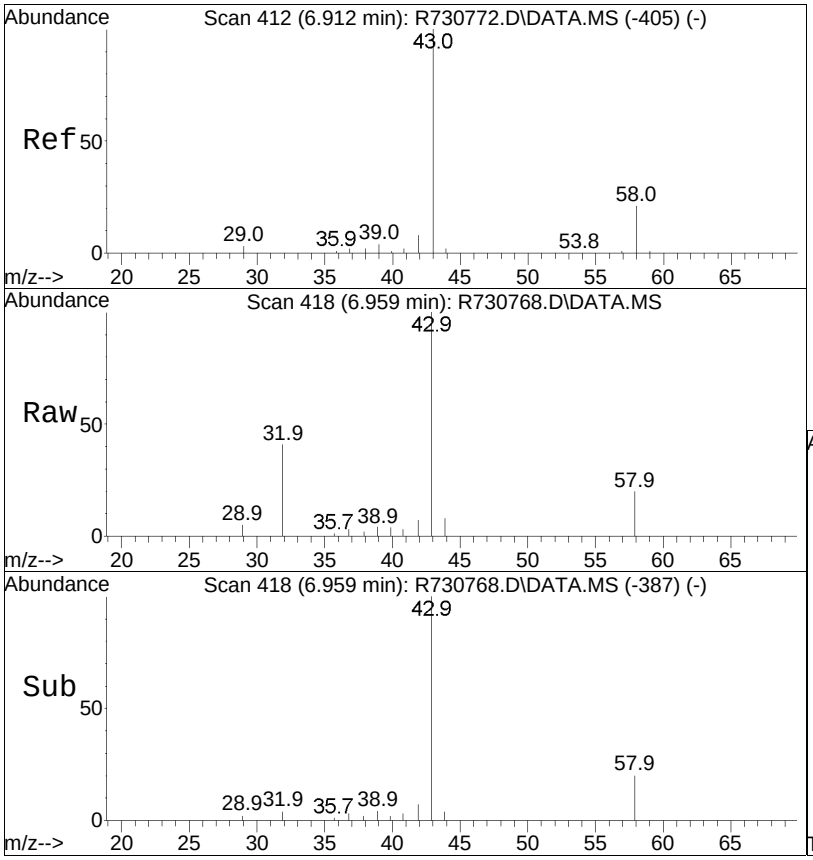


#18
acrolein
Concen: 0.20 ppbV
RT: 6.768 min Scan# 394
Delta R.T. 0.016 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 56 Resp: 1195

Ion	Ratio	Lower	Upper
56	100		
55	66.3	62.4	93.6
29	106.8	59.0	88.6#

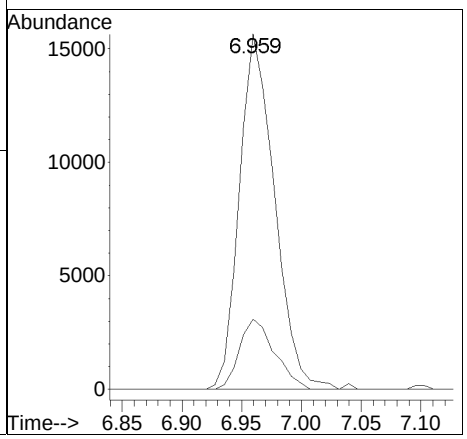


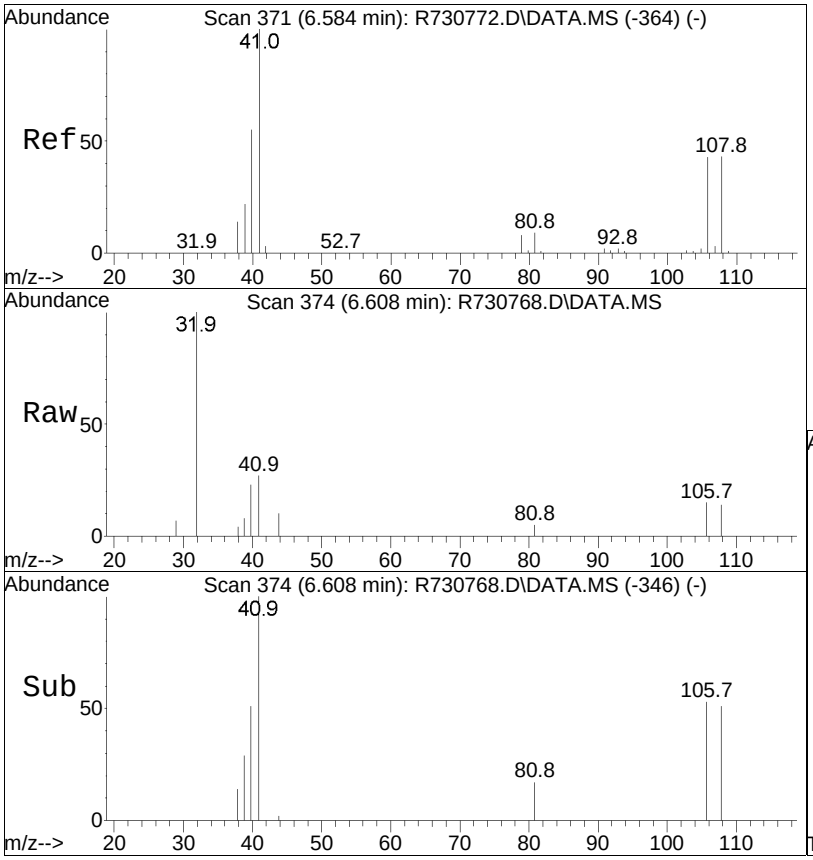


#19
acetone
Concen: 1.20 ppbV
RT: 6.959 min Scan# 418
Delta R.T. 0.048 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 32174

Ion	Ratio	Lower	Upper
43	100		
58	19.8	16.7	25.1
57	0.0	0.5	0.7#

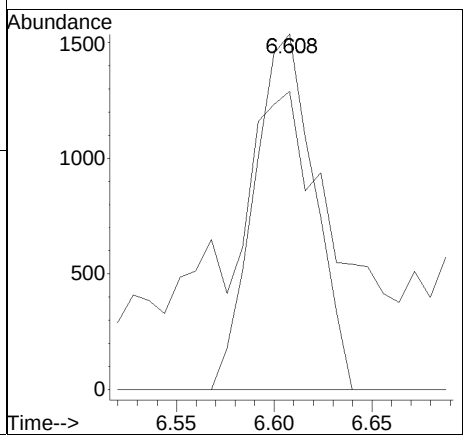


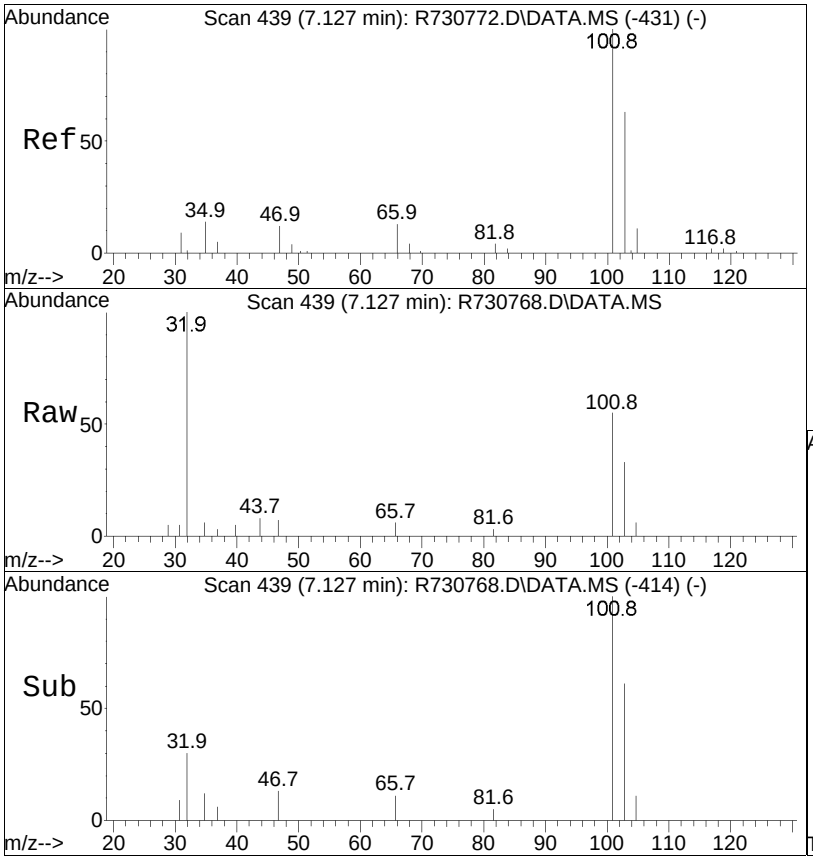


#20
acetonitrile
Concen: 0.20 ppbV
RT: 6.608 min Scan# 374
Delta R.T. 0.024 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 41 Resp: 3291

Ion	Ratio	Lower	Upper
41	100		
40	83.9	44.3	66.5#

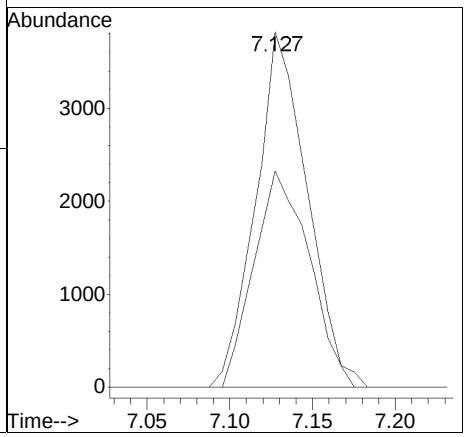


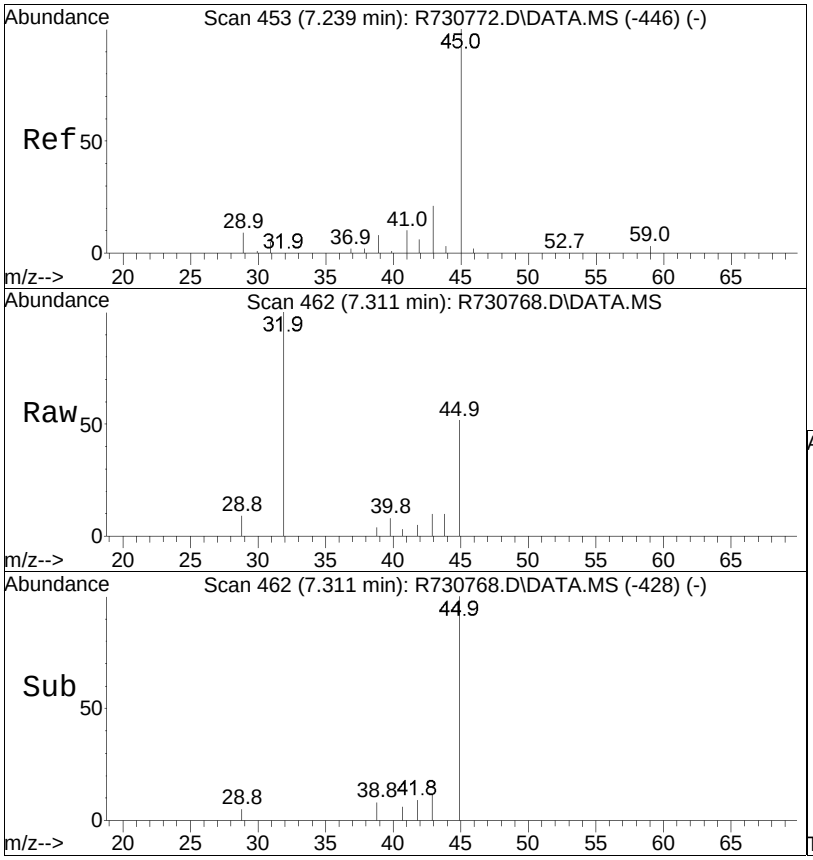


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 7.127 min Scan# 439
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:101 Resp: 8232

Ion	Ratio	Lower	Upper
101	100		
103	60.9	50.3	75.5

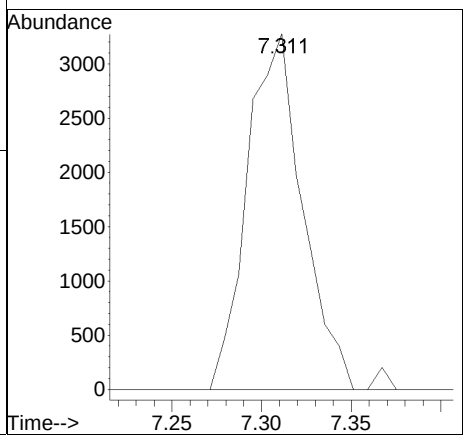


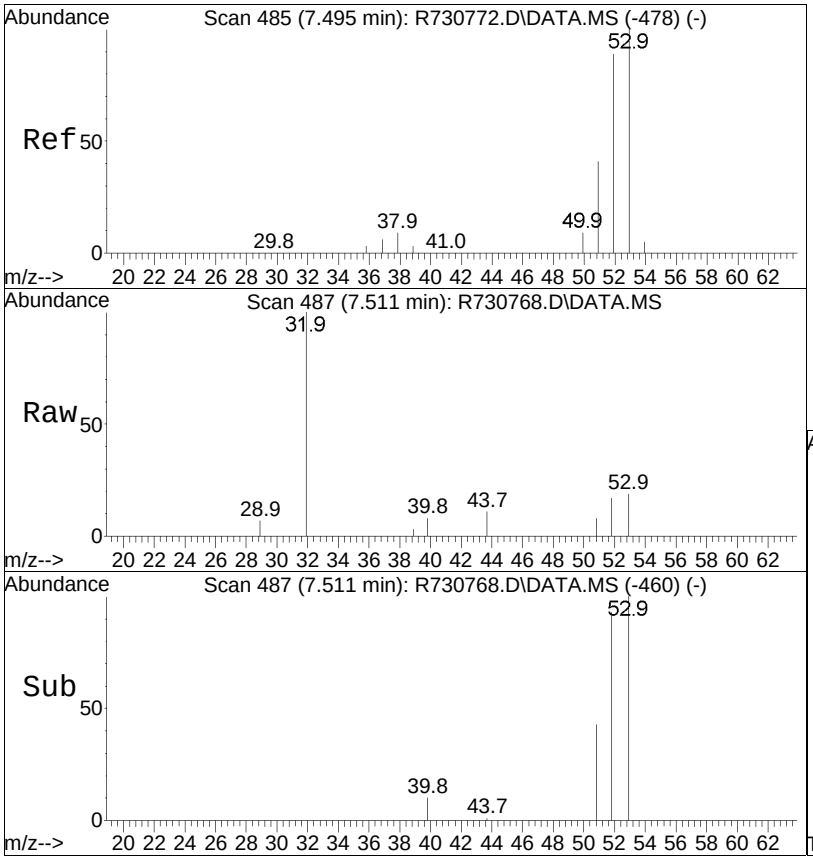


#22
isopropyl alcohol
Concen: 0.24 ppbV
RT: 7.311 min Scan# 462
Delta R.T. 0.072 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 45 Resp: 7033

Ion	Ratio	Lower	Upper
45	100		
59	0.0	2.5	3.7#

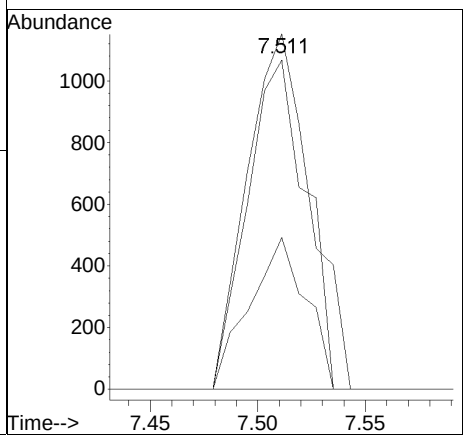


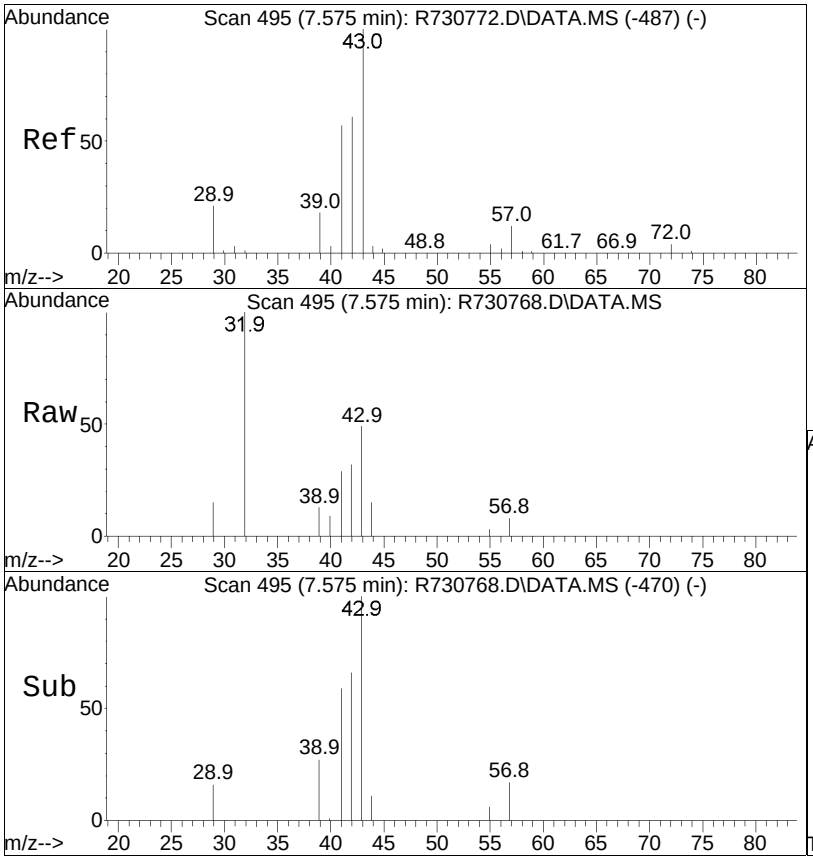


#23
acrylonitrile
Concen: 0.21 ppbV
RT: 7.511 min Scan# 487
Delta R.T. 0.016 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 53 Resp: 2364

Ion	Ratio	Lower	Upper
53	100		
52	92.6	71.0	106.4
51	42.7	33.0	49.6

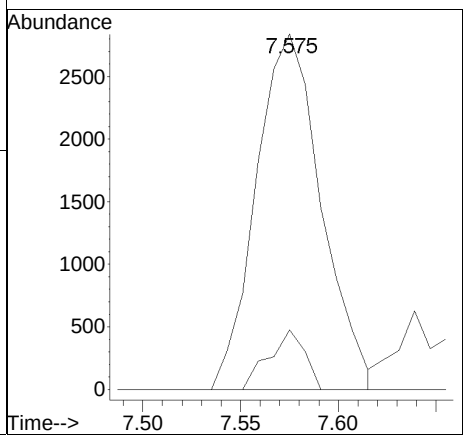


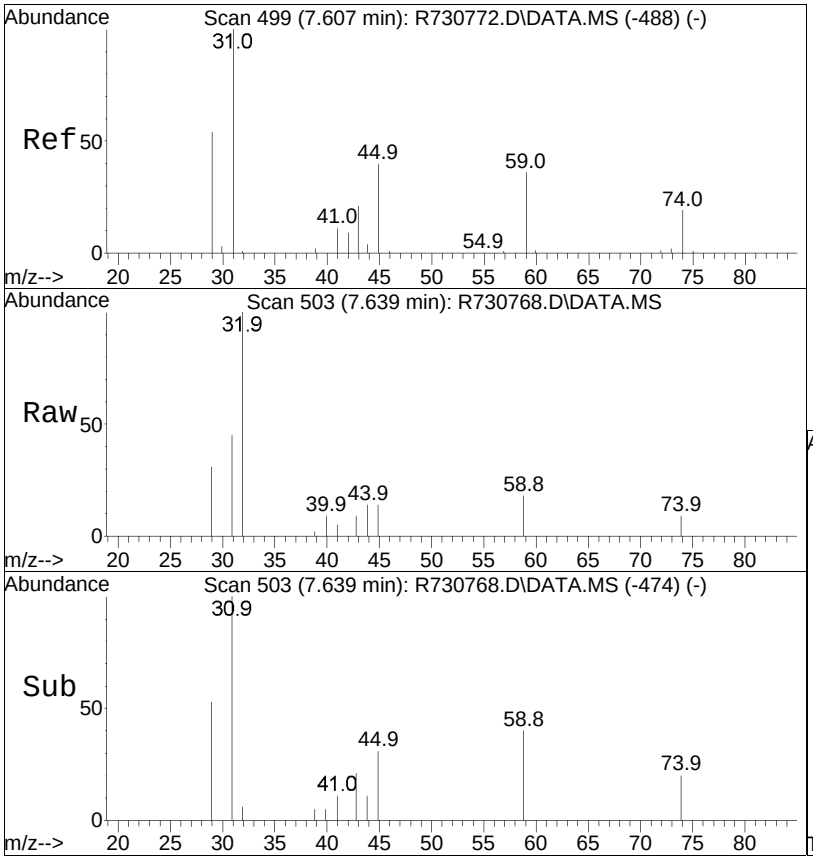


#24
pentane
Concen: 0.21 ppbV
RT: 7.575 min Scan# 495
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 6583

Ion	Ratio	Lower	Upper
43	100		
57	16.8	9.5	14.3#
72	0.0	3.5	5.3#

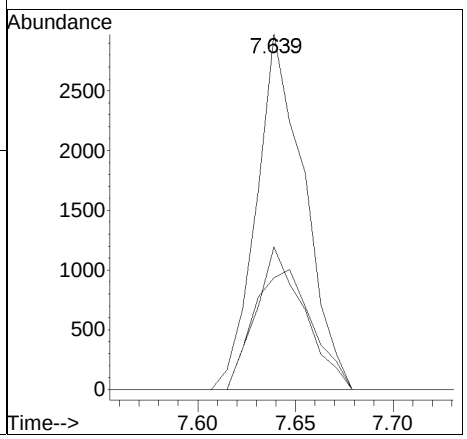


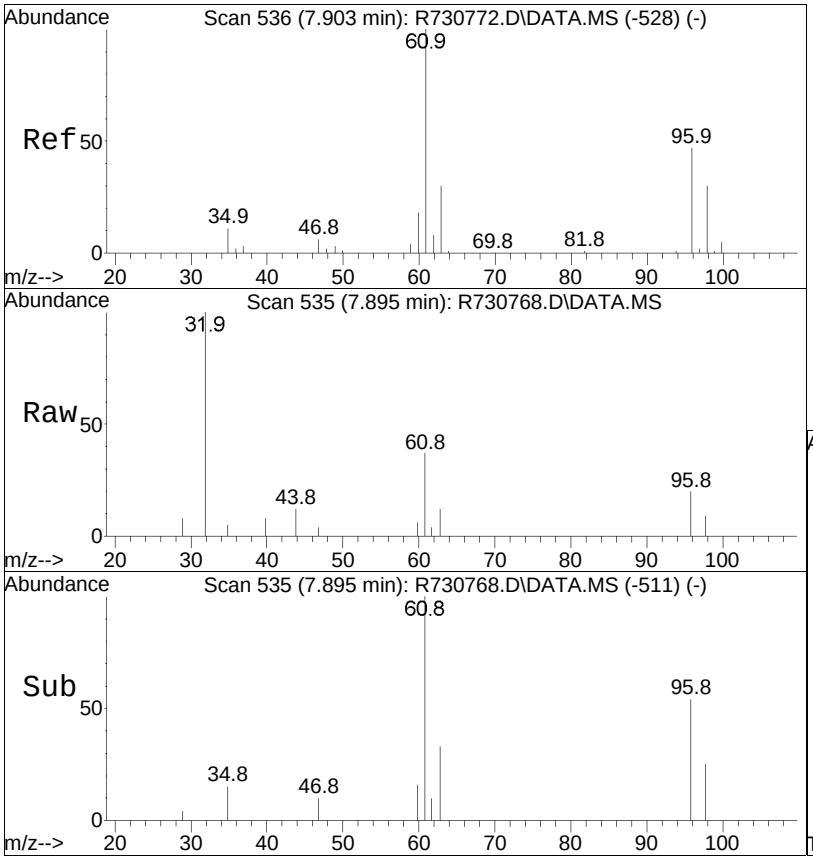


#25
ethyl ether
Concen: 0.21 ppbV
RT: 7.639 min Scan# 503
Delta R.T. 0.032 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 31 Resp: 5060

Ion	Ratio	Lower	Upper
31	100		
59	40.1	28.8	43.2
45	31.5	32.2	48.4#

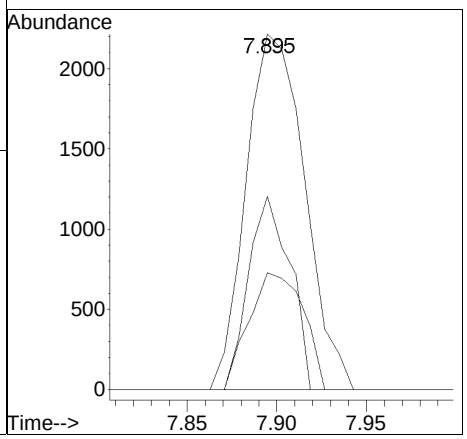


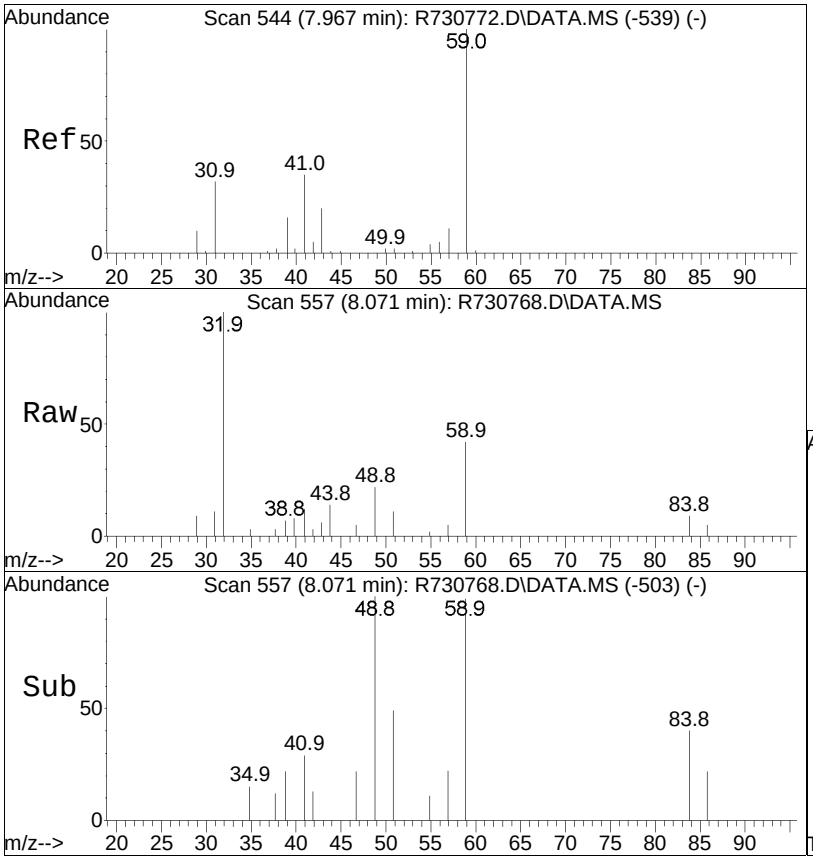


#26
1,1-dichloroethene
Concen: 0.22 ppbV
RT: 7.895 min Scan# 535
Delta R.T. -0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 61 Resp: 5051

Ion	Ratio	Lower	Upper
61	100		
96	54.3	37.3	55.9
63	32.9	23.7	35.5

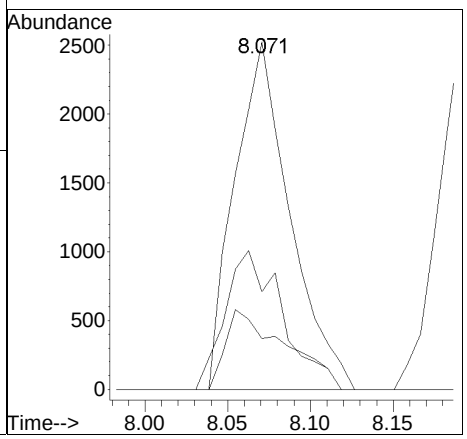


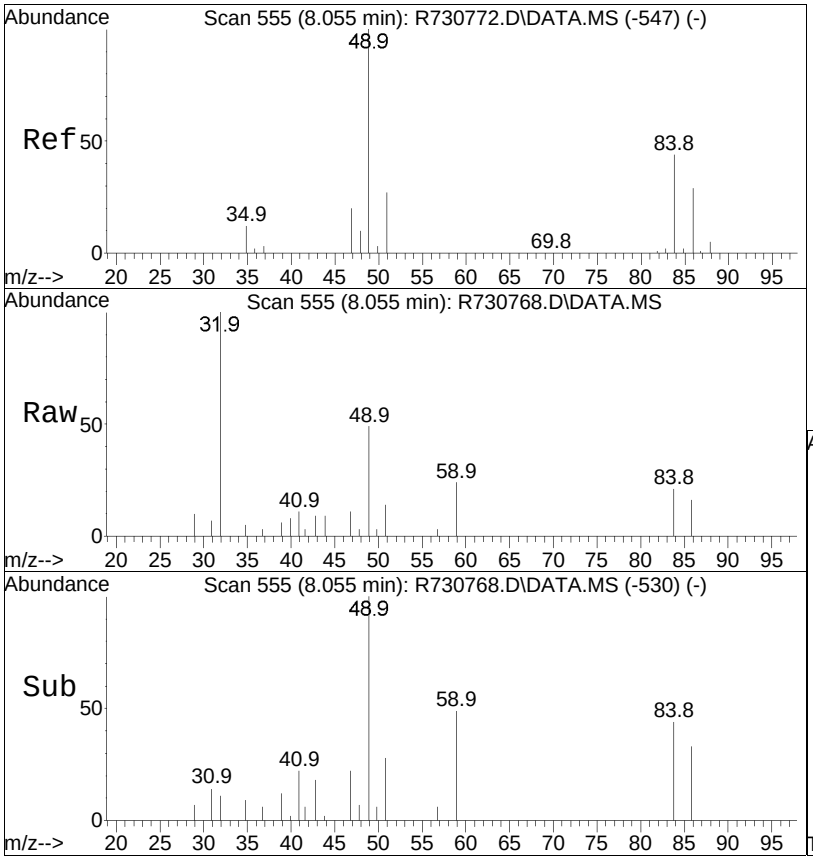


#27
tertiary butyl alcohol
Concen: 0.22 ppbV
RT: 8.071 min Scan# 557
Delta R.T. 0.104 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 59 Resp: 5866

Ion	Ratio	Lower	Upper
59	100		
41	28.1	28.1	42.1
43	14.7	15.7	23.5#

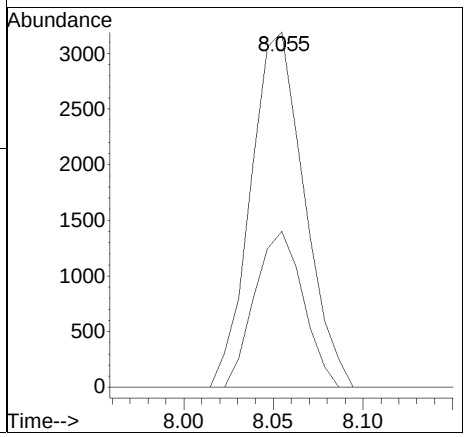


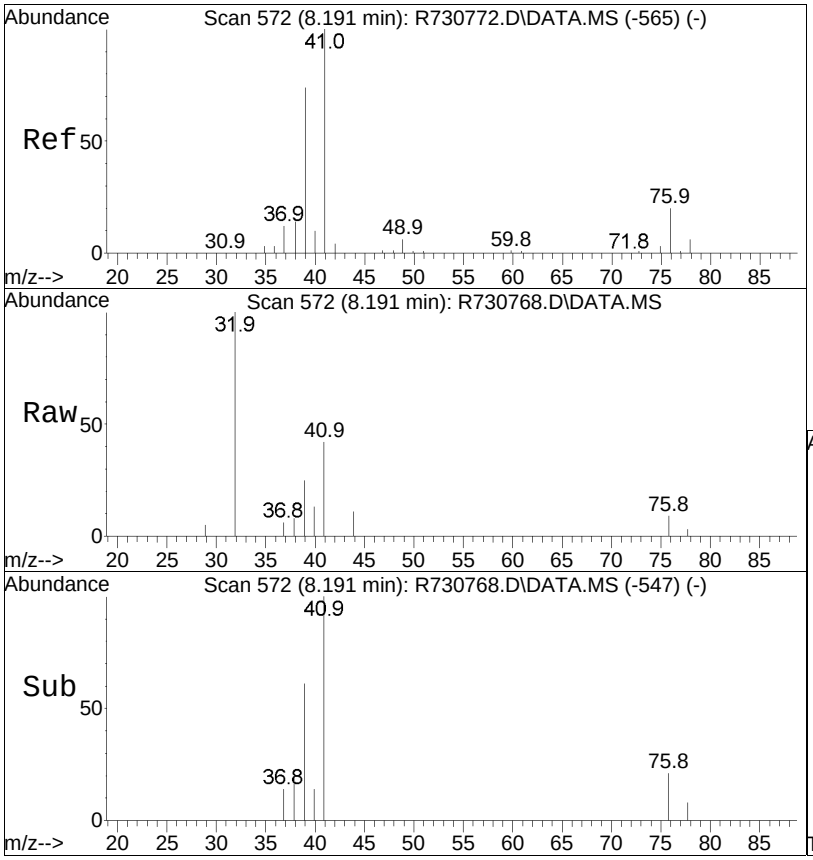


#28
methylene chloride
Concen: 0.32 ppbV
RT: 8.055 min Scan# 555
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 49 Resp: 6635

Ion	Ratio	Lower	Upper
49	100		
84	43.9	35.4	53.2

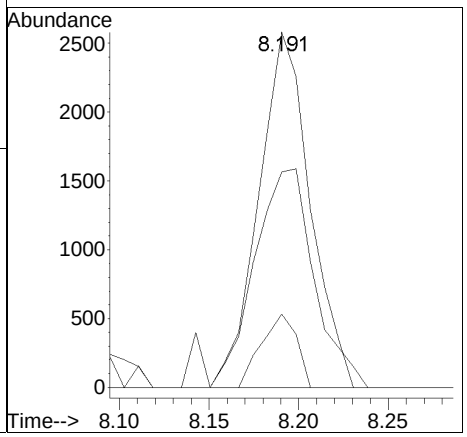


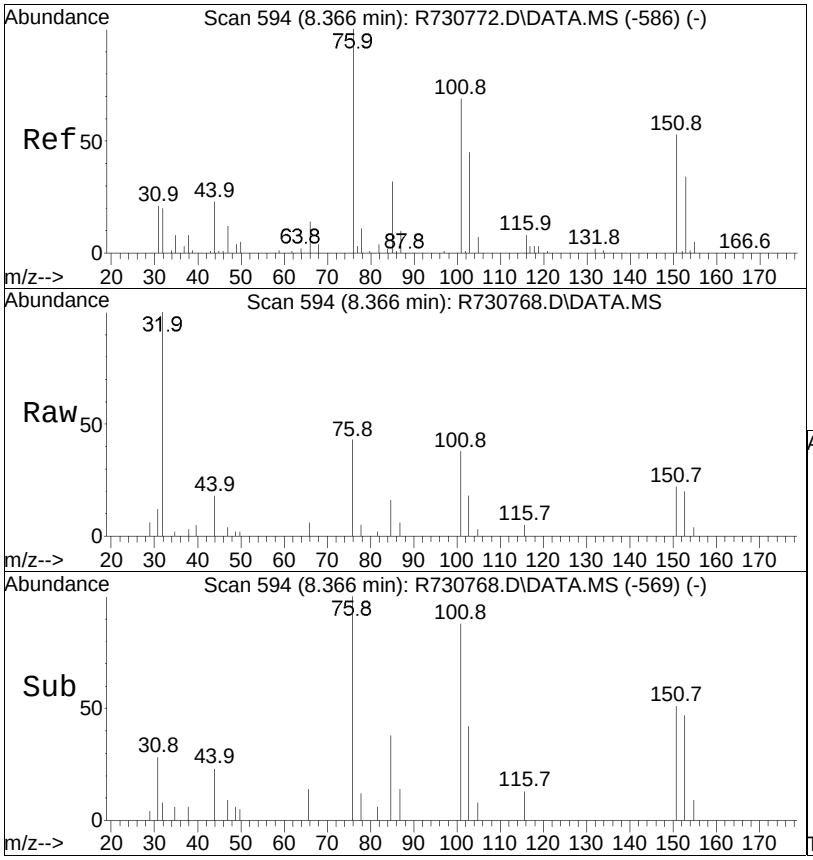


#29
3-chloropropene
Concen: 0.22 ppbV
RT: 8.191 min Scan# 572
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 41 Resp: 5152

Ion	Ratio	Lower	Upper
41	100		
39	60.6	59.1	88.7
76	20.7	16.2	24.2

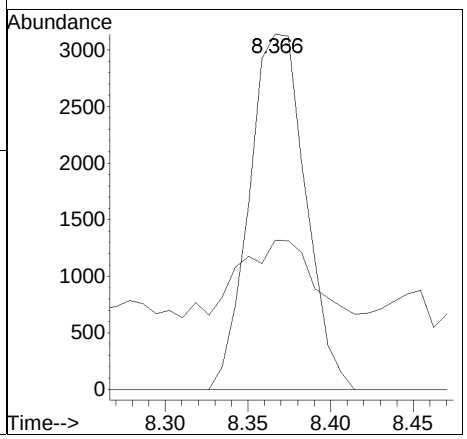


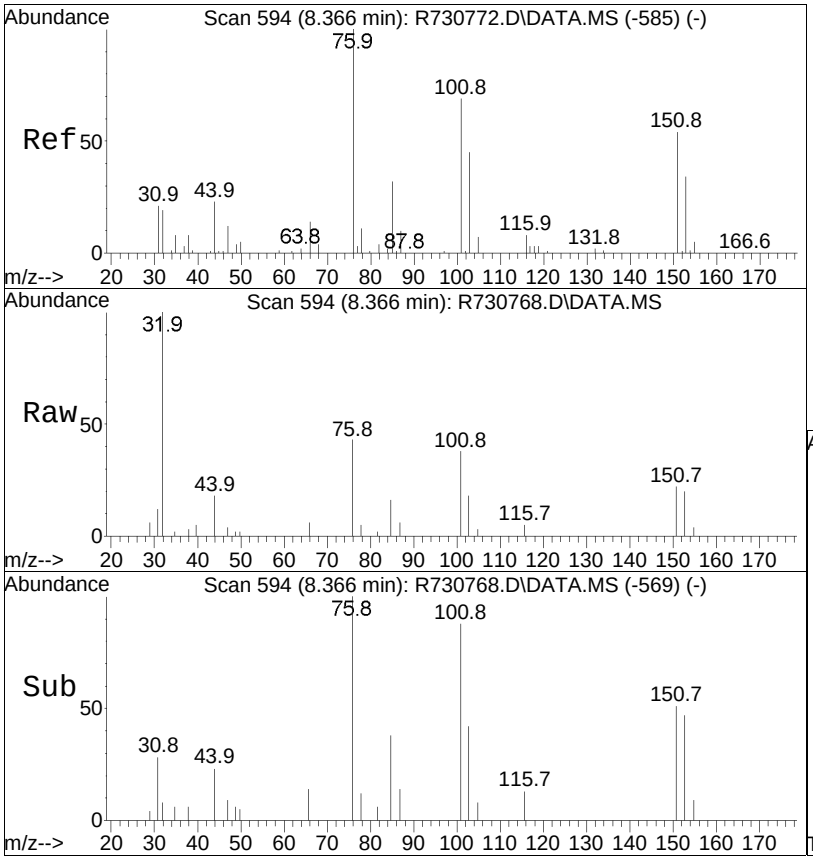


#30
carbon disulfide
Concen: 0.22 ppbV
RT: 8.366 min Scan# 594
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 76 Resp: 7418

Ion	Ratio	Lower	Upper
76	100		
44	42.0	18.6	27.8#

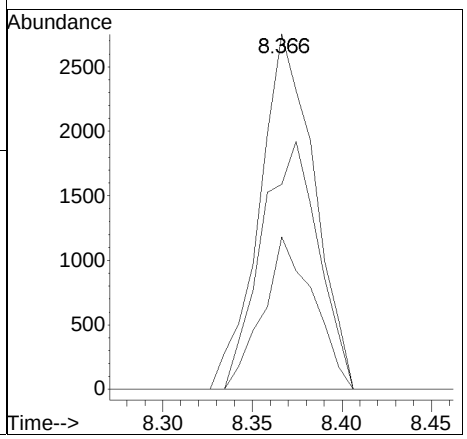


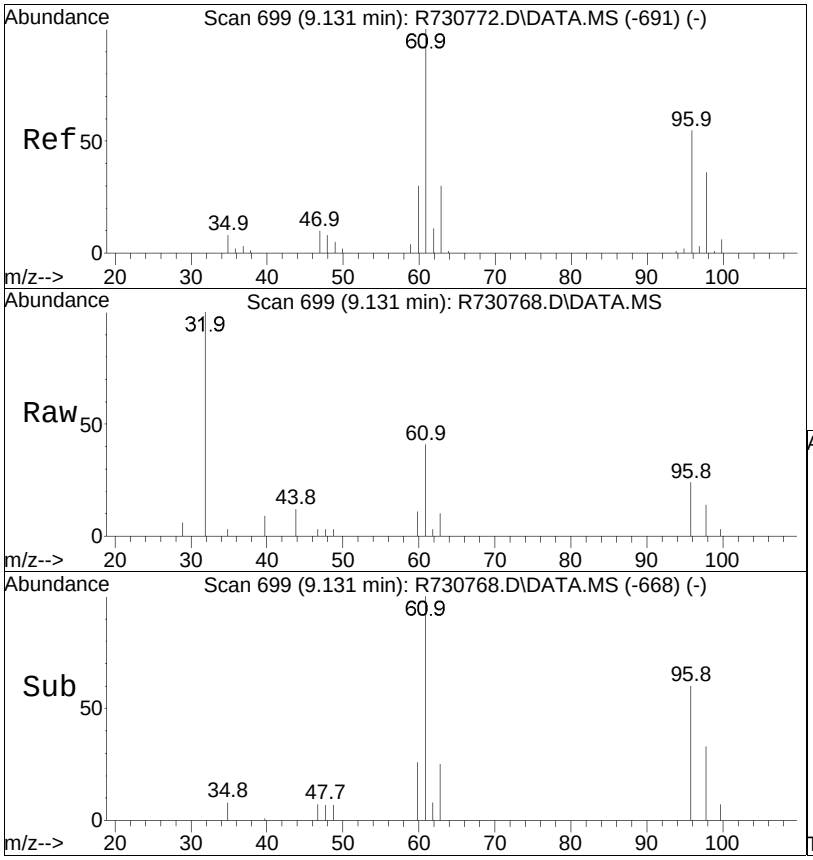


#31
Freon 113
Concen: 0.23 ppbV
RT: 8.366 min Scan# 594
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:101 Resp: 5881

Ion	Ratio	Lower	Upper
101	100		
85	42.9	37.4	56.2
151	57.7	62.6	93.8#

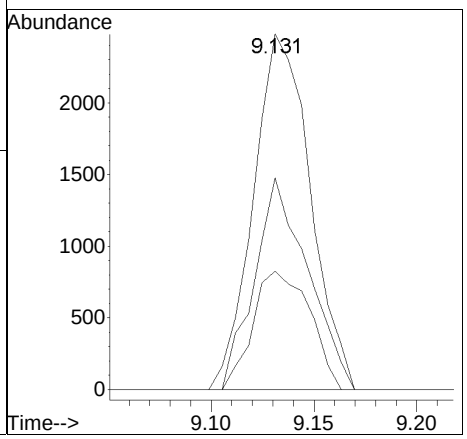


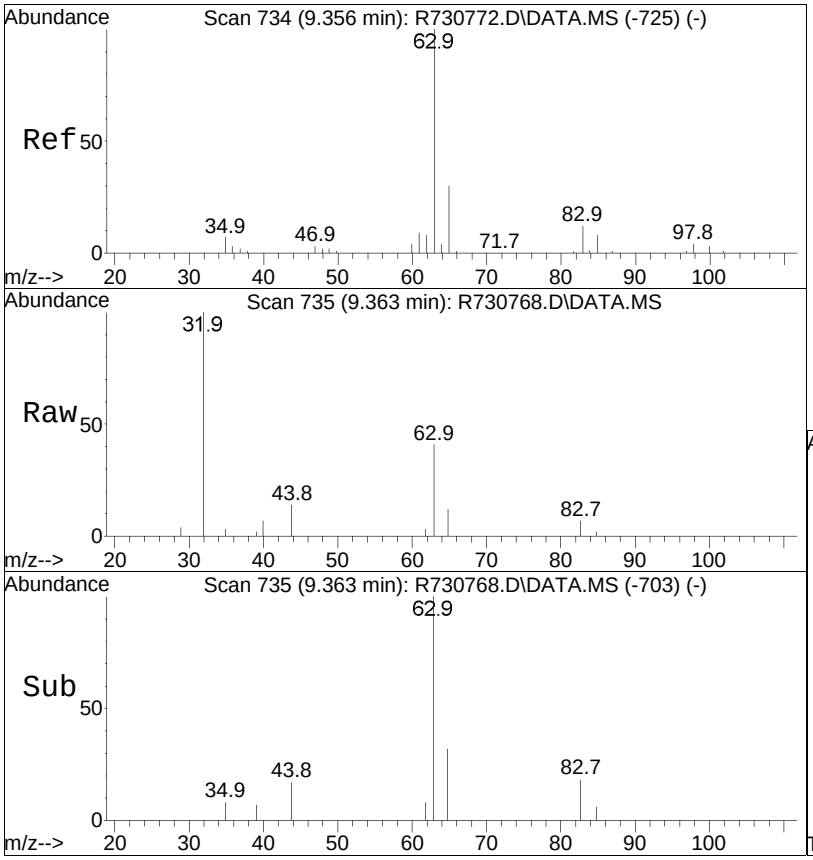


#32
trans-1,2-dichloroethene
Concen: 0.23 ppbV
RT: 9.131 min Scan# 699
Delta R.T. -0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 61 Resp: 4770

Ion	Ratio	Lower	Upper
61	100		
96	59.5	44.2	66.4
98	33.3	28.6	42.8

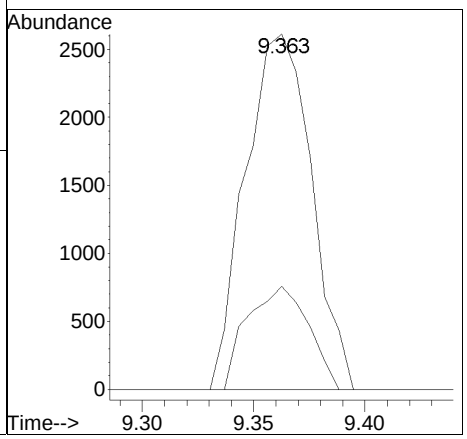


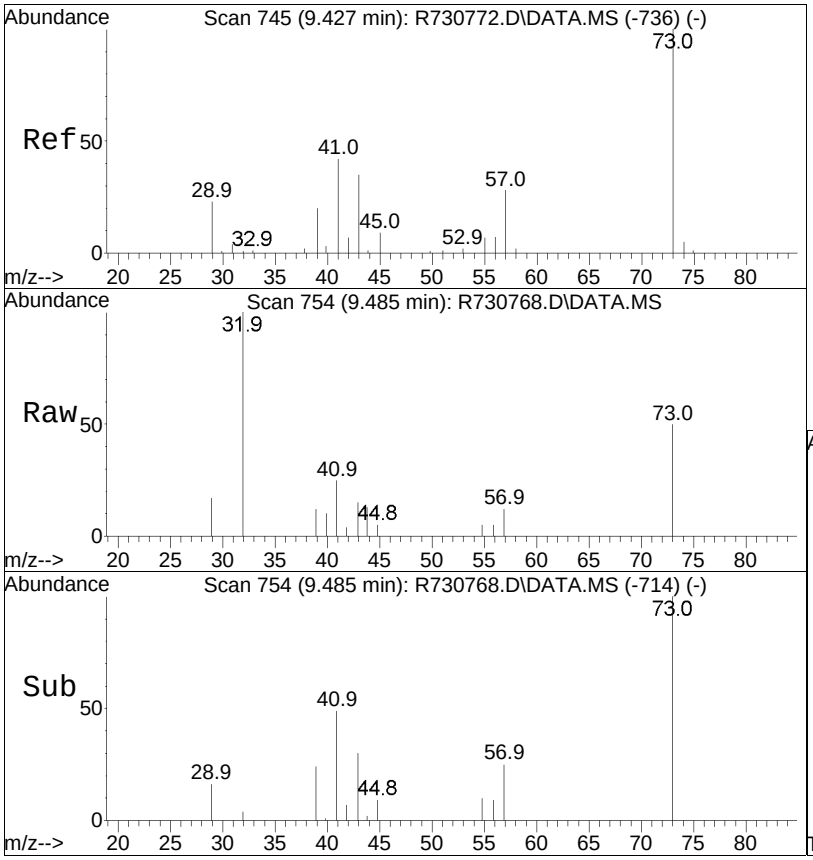


#33
1,1-dichloroethane
Concen: 0.23 ppbV
RT: 9.363 min Scan# 735
Delta R.T. 0.006 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 63 Resp: 5384

Ion	Ratio	Lower	Upper
63	100		
65	29.0	23.8	35.8

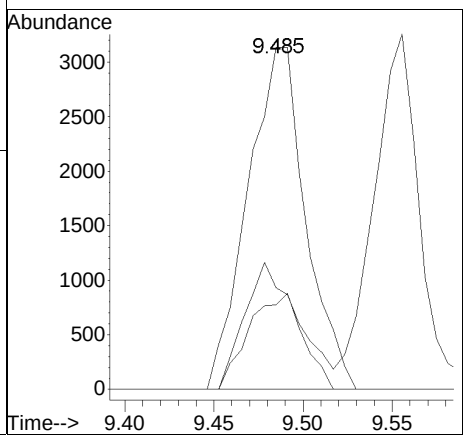


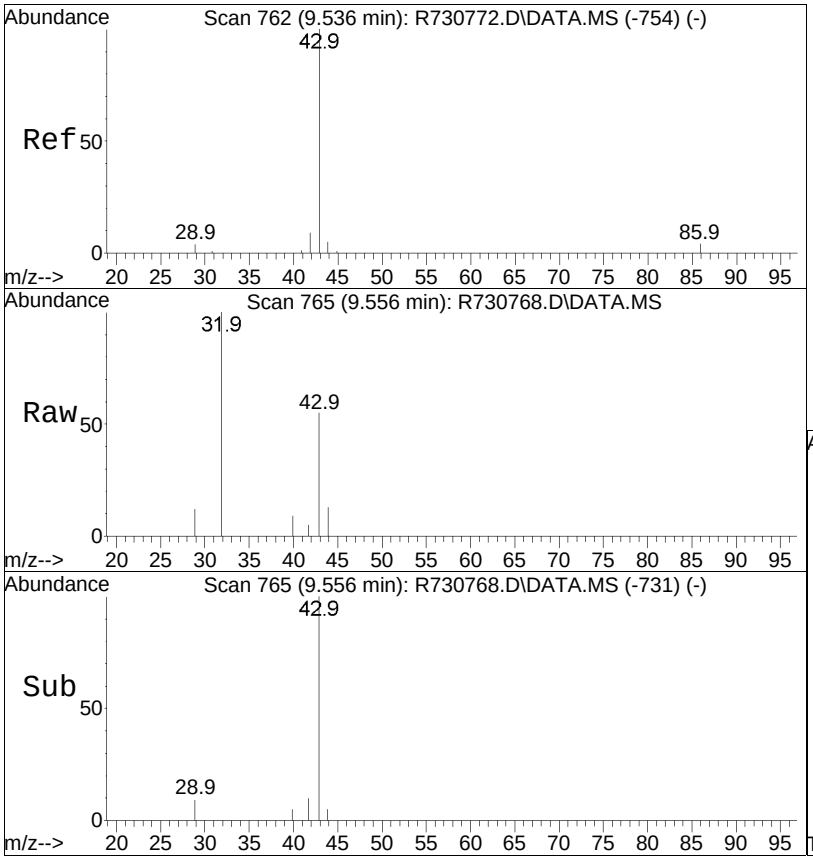


#34
MTBE
Concen: 0.23 ppbV
RT: 9.485 min Scan# 754
Delta R.T. 0.058 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 73 Resp: 7093

Ion	Ratio	Lower	Upper
73	100		
57	24.7	22.5	33.7
43	29.7	28.0	42.0

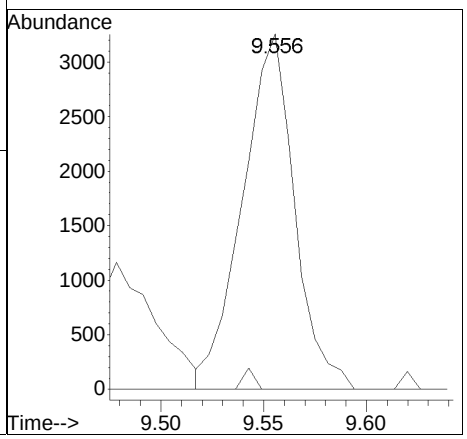


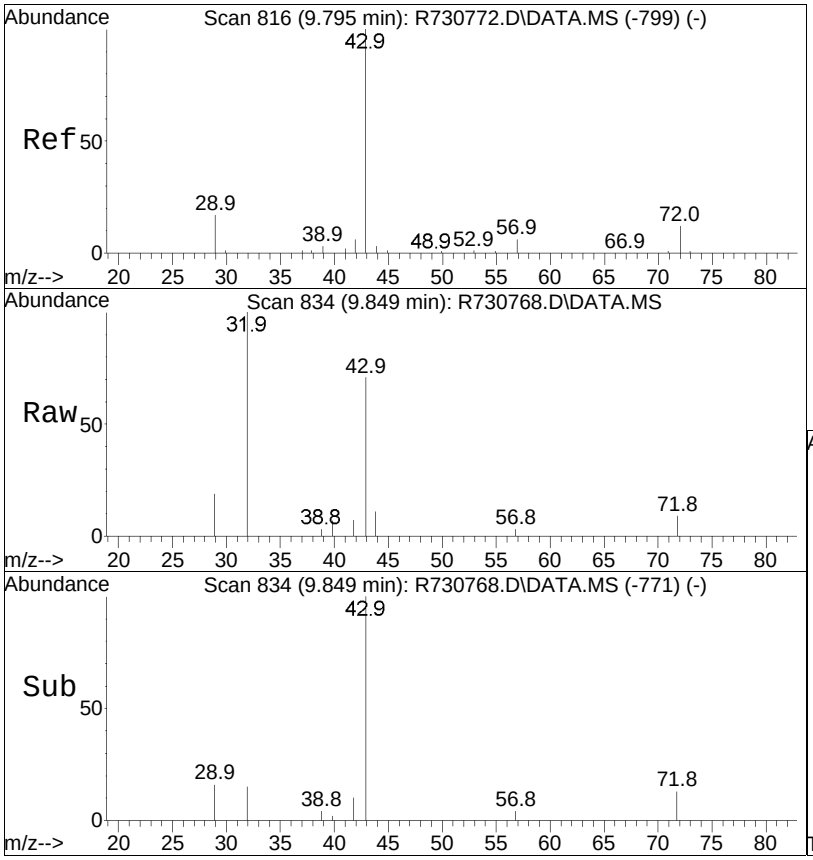


#35
vinyl acetate
Concen: 0.20 ppbV
RT: 9.556 min Scan# 765
Delta R.T. 0.019 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 5726

Ion	Ratio	Lower	Upper
43	100		
86	0.0	3.0	4.4#

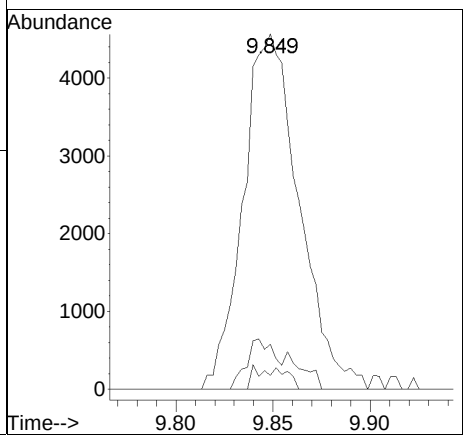


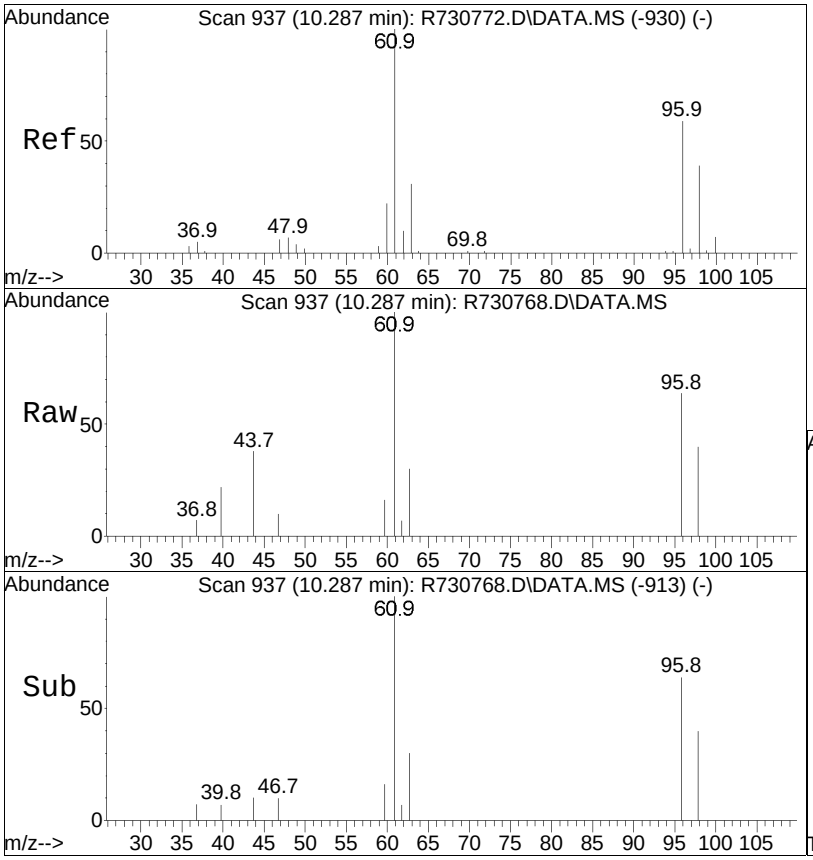


#36
2-butanone
Concen: 0.23 ppbV
RT: 9.849 min Scan# 834
Delta R.T. 0.053 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 9162

Ion	Ratio	Lower	Upper
43	100		
72	12.7	9.9	14.9
57	4.0	4.8	7.2#

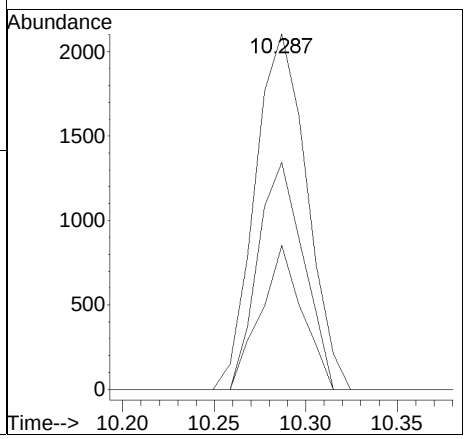


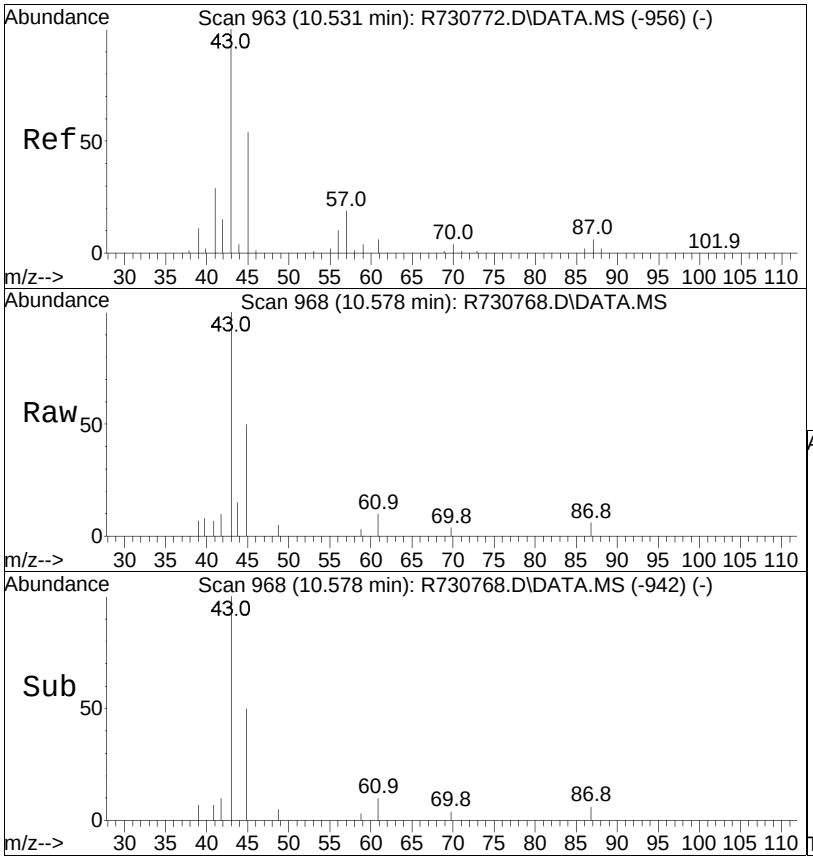


#37
cis-1,2-dichloroethene
Concen: 0.23 ppbV
RT: 10.287 min Scan# 937
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 61 Resp: 4153

Ion	Ratio	Lower	Upper
61	100		
96	63.9	47.0	70.4
98	40.4	31.5	47.3

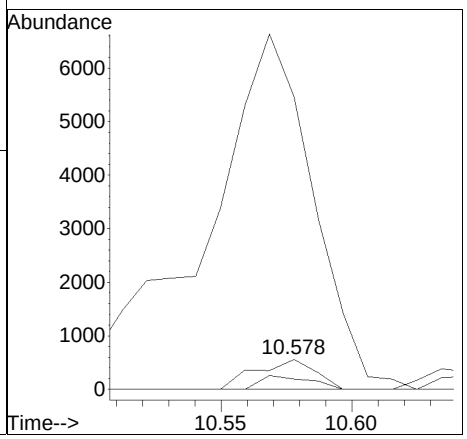


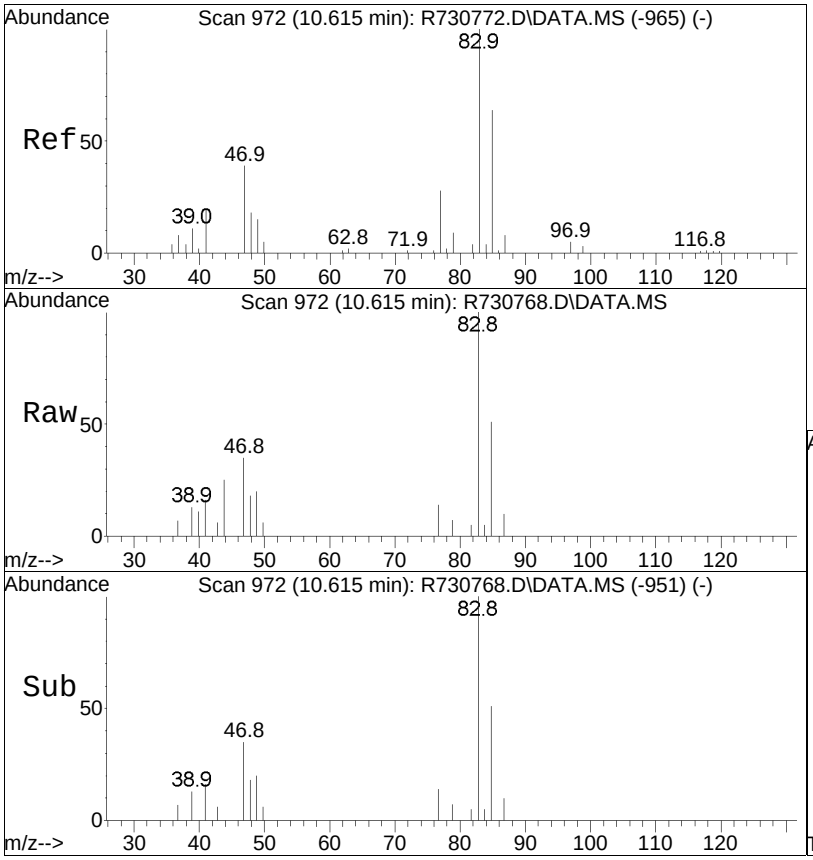


#38
Ethyl Acetate
Concen: 0.22 ppbV
RT: 10.578 min Scan# 968
Delta R.T. 0.047 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 61 Resp: 891

Ion	Ratio	Lower	Upper
61	100		
70	34.6	50.6	75.8#
43	975.7	1333.2	1999.8#

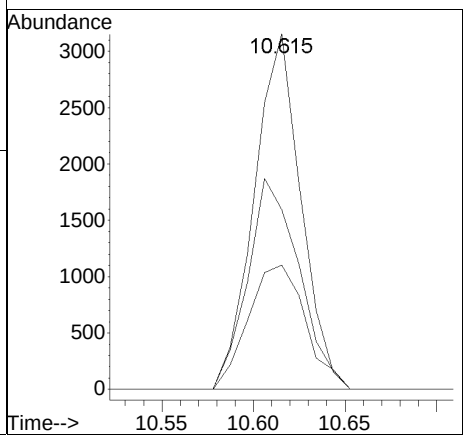


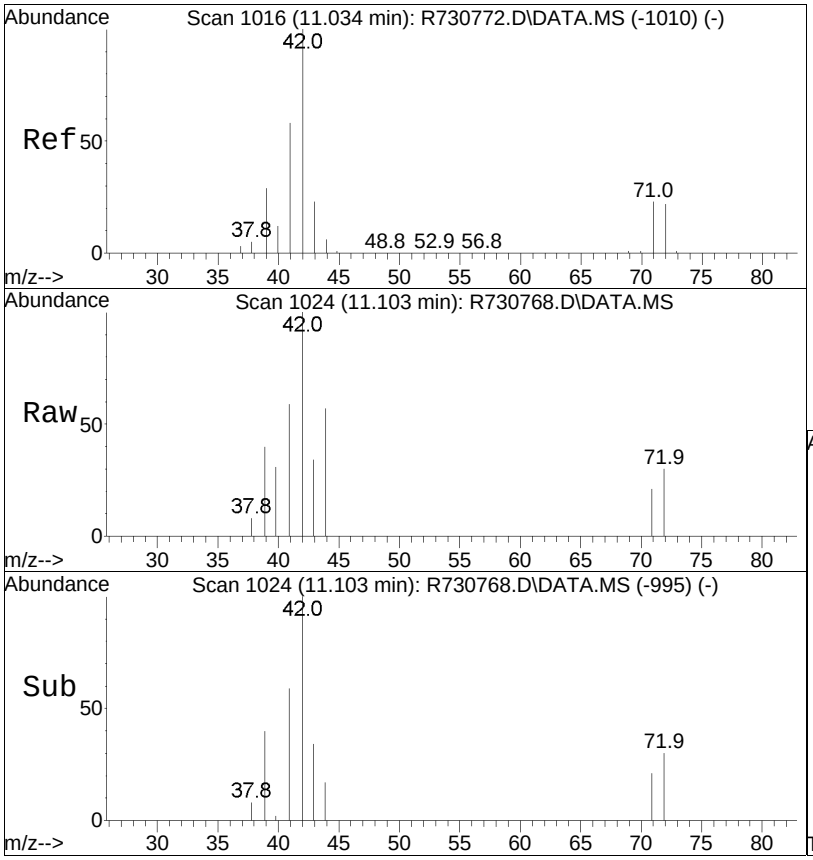


#39
chloroform
Concen: 0.22 ppbV
RT: 10.615 min Scan# 972
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 83 Resp: 5605

Ion	Ratio	Lower	Upper
83	100		
85	50.6	51.4	77.0#
47	35.0	31.0	46.4

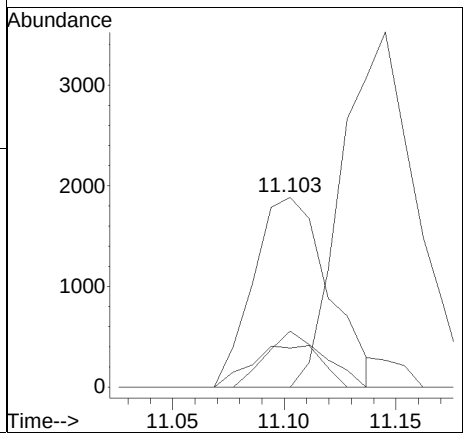


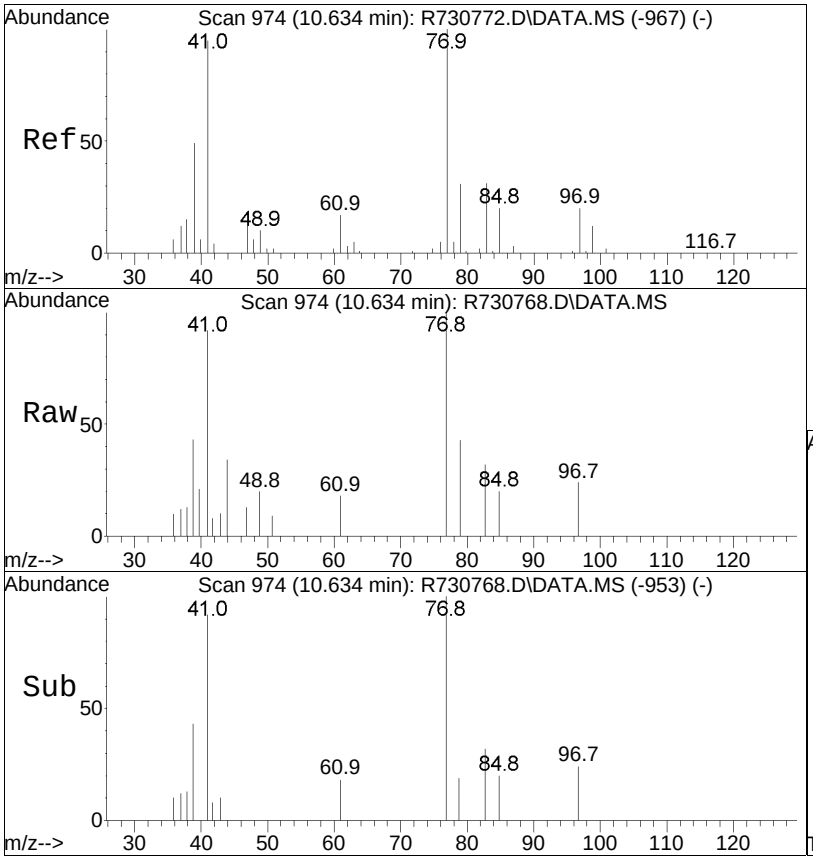


#40
Tetrahydrofuran
Concen: 0.22 ppbV m
RT: 11.103 min Scan# 1024
Delta R.T. 0.068 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 42 Resp: 4423

Ion	Ratio	Lower	Upper
42	100		
71	20.7	18.6	27.8
72	29.6	17.5	26.3#
59	0.0	0.0	0.0

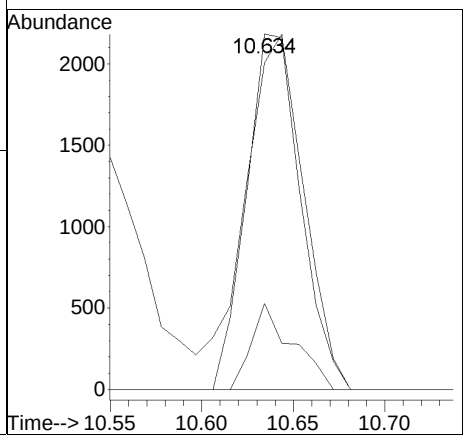


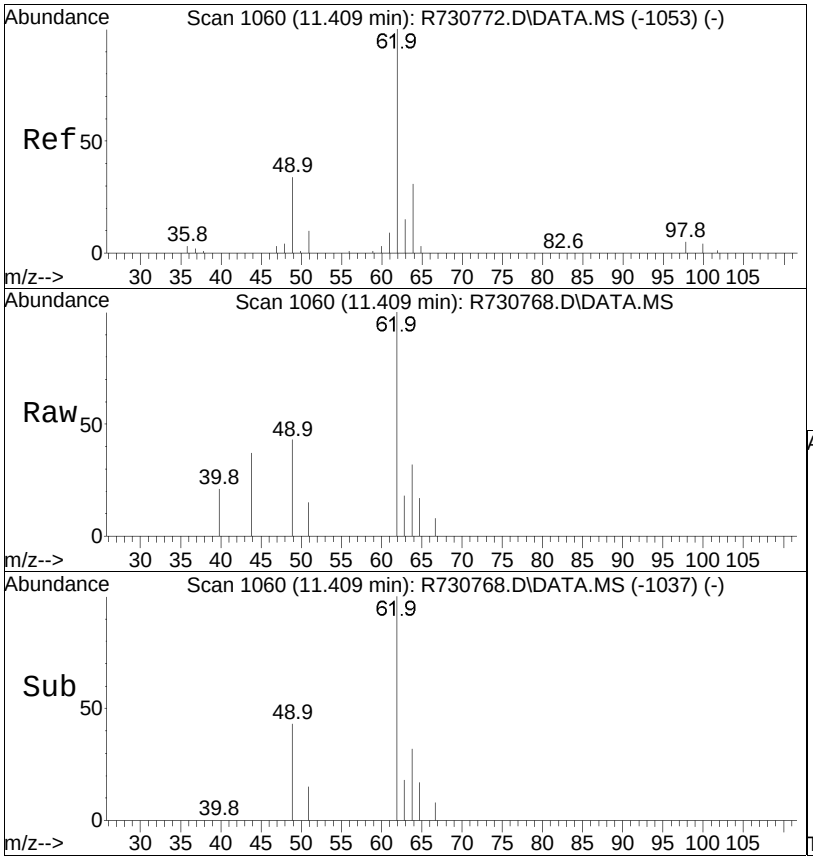


#41
2,2-dichloropropane
Concen: 0.21 ppbV
RT: 10.634 min Scan# 974
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 77 Resp: 4485

Ion	Ratio	Lower	Upper
77	100		
41	99.5	76.5	114.7
97	24.2	15.7	23.5#

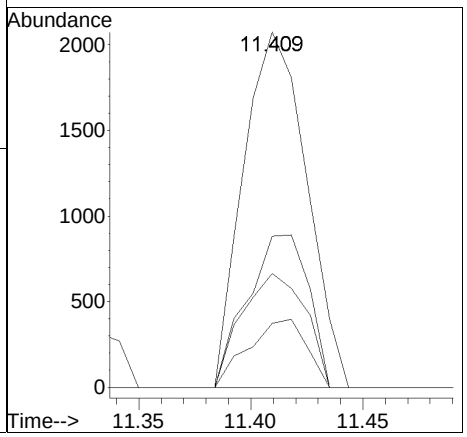


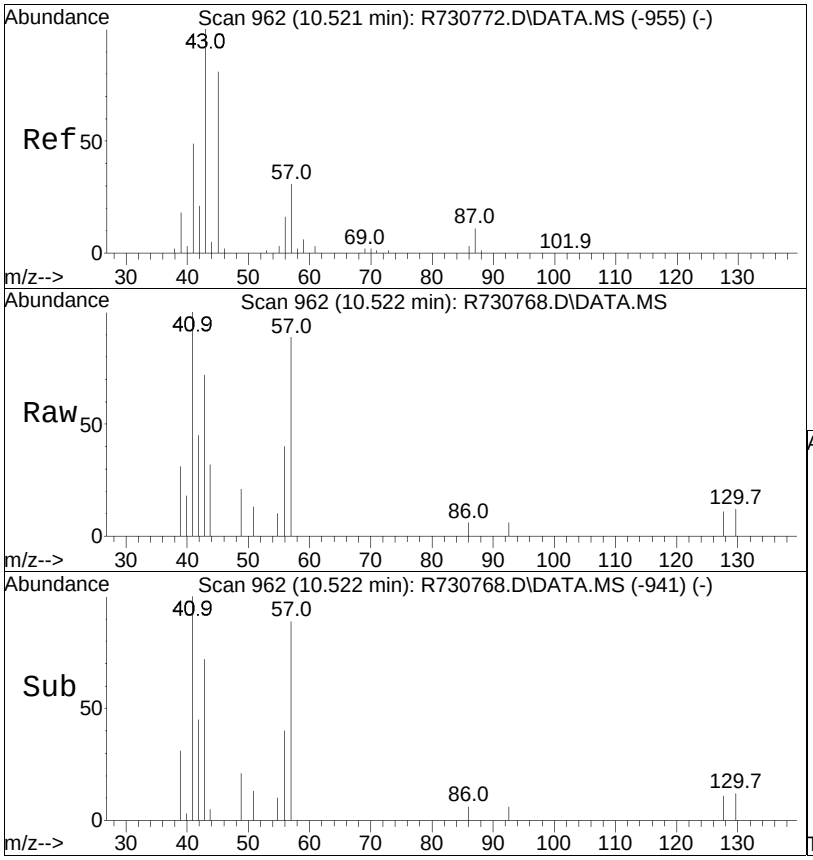


#42
1,2-dichloroethane
Concen: 0.20 ppbV
RT: 11.409 min Scan# 1060
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 62 Resp: 4056

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.0	37.4
49	42.5	27.0	40.6#
63	18.0	11.7	17.5#

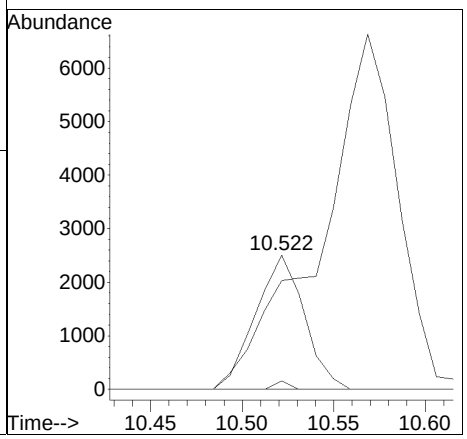


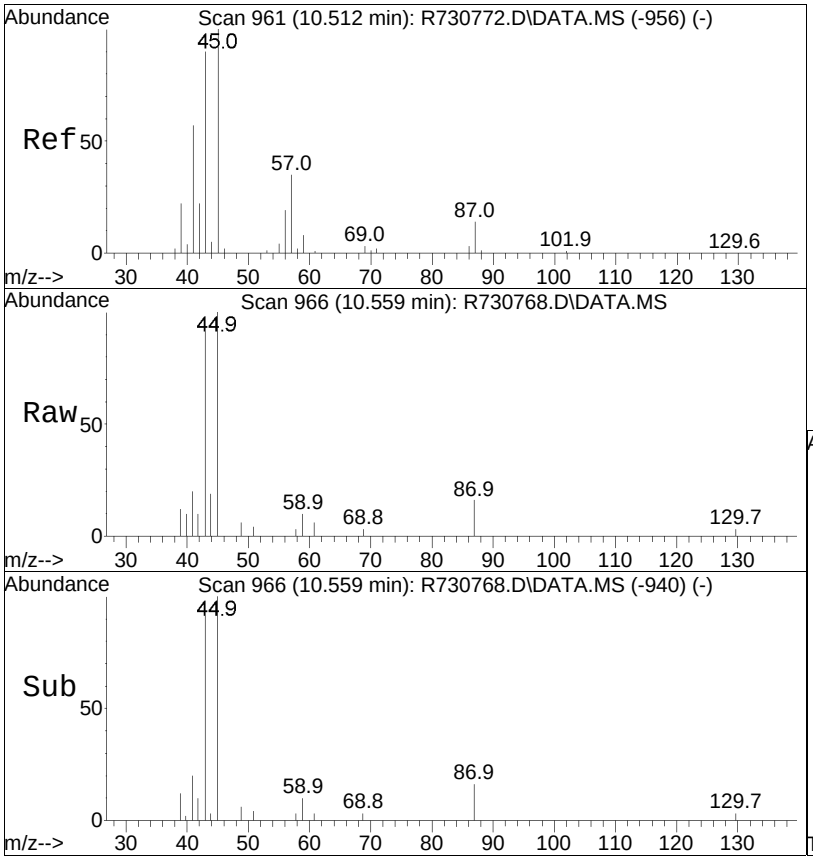


#44
hexane
Concen: 0.23 ppbV
RT: 10.522 min Scan# 962
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 57 Resp: 4649

Ion	Ratio	Lower	Upper
57	100		
43	81.1	259.9	389.9#
86	6.4	8.2	12.4#

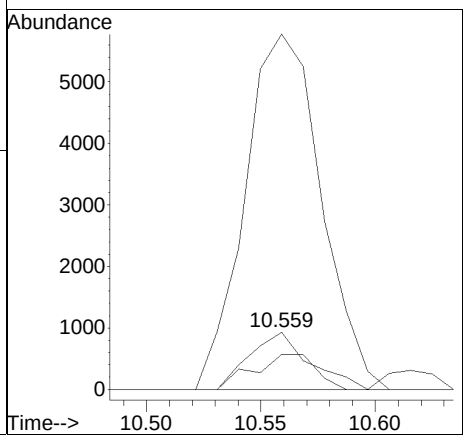


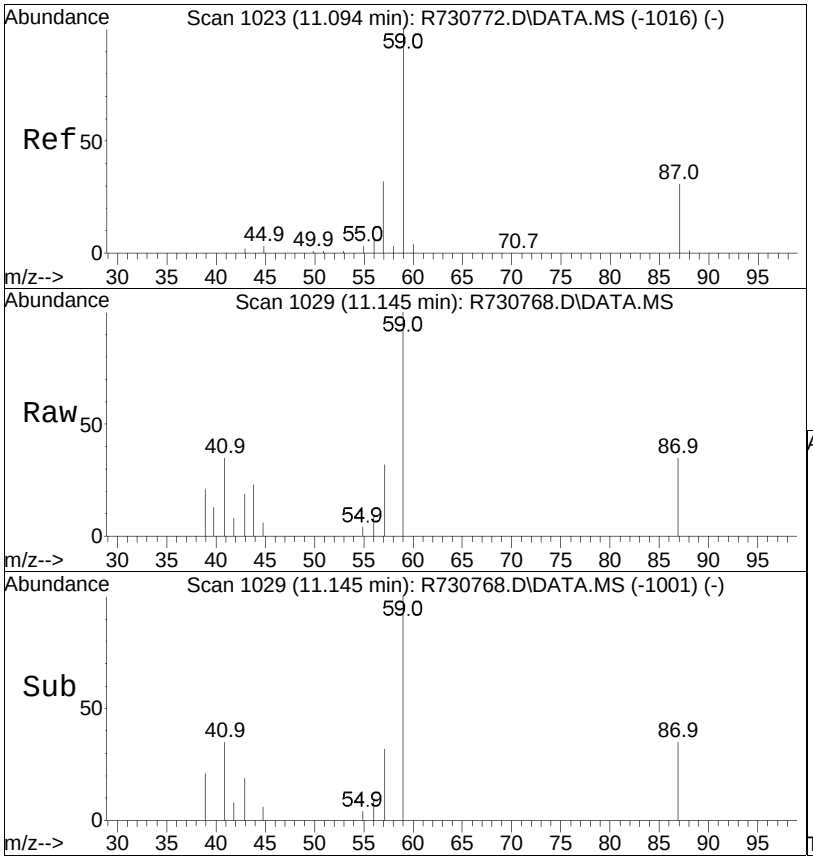


#45
diisopropyl ether
Concen: 0.21 ppbV
RT: 10.559 min Scan# 966
Delta R.T. 0.047 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 87 Resp: 1703

Ion	Ratio	Lower	Upper
87	100		
59	61.4	43.5	65.3
45	621.3	562.7	844.1

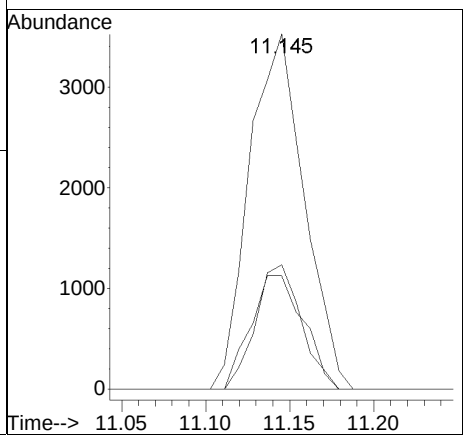


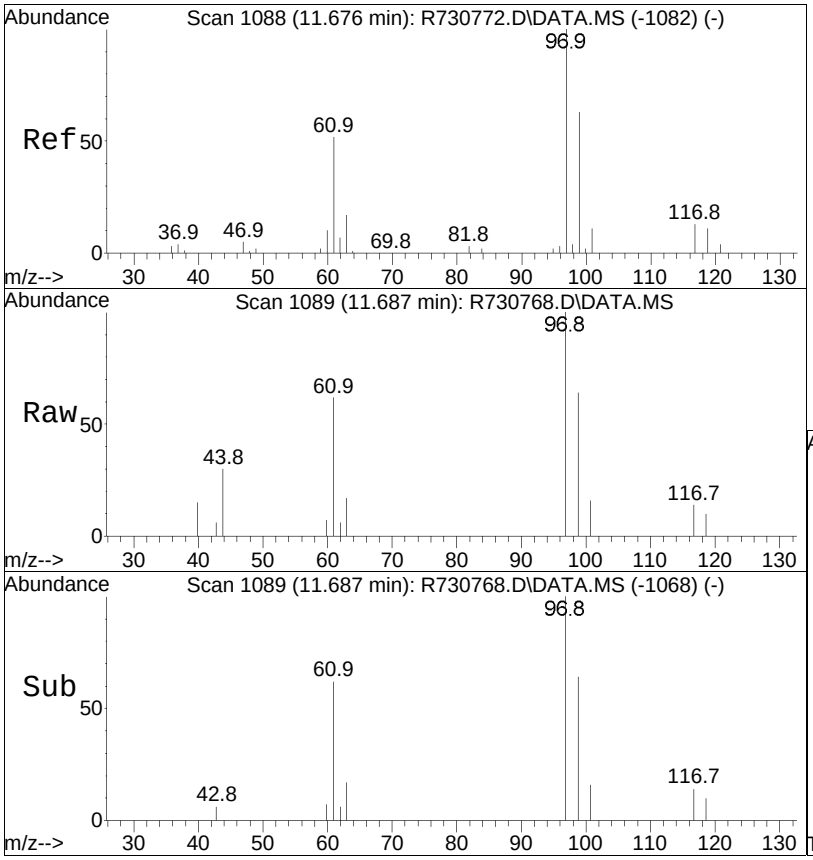


#46
tert-butyl ethyl ether
Concen: 0.21 ppbV
RT: 11.145 min Scan# 1029
Delta R.T. 0.051 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 59 Resp: 8015

Ion	Ratio	Lower	Upper
59	100		
87	35.1	25.0	37.4
57	31.9	25.8	38.8

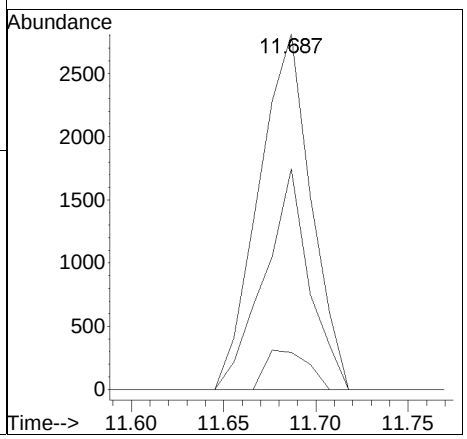


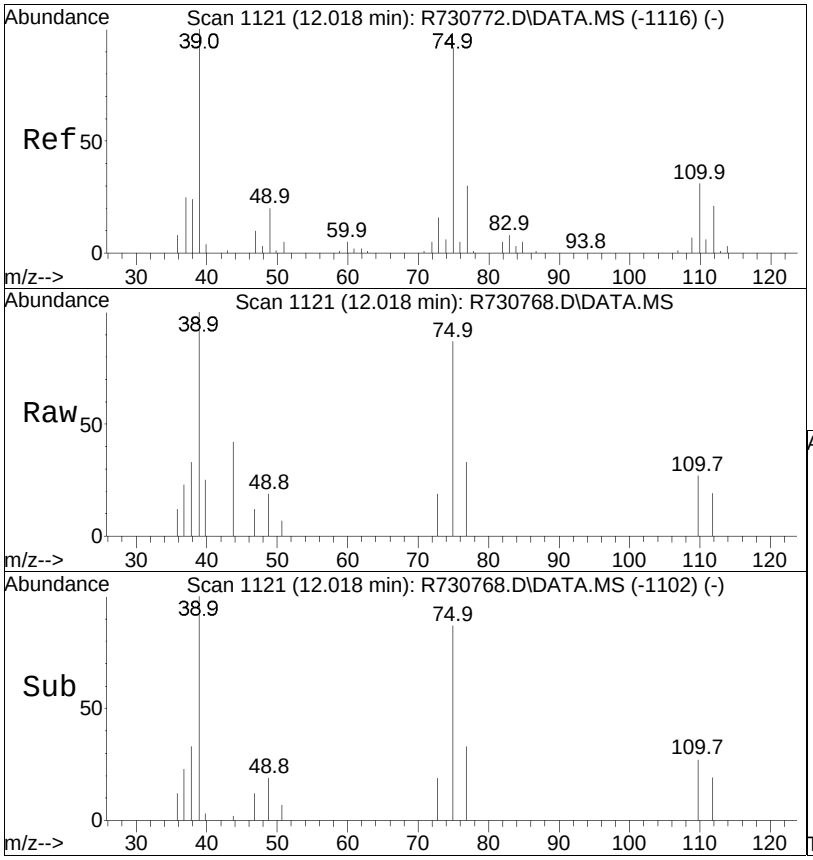


#48
1,1,1-trichloroethane
Concen: 0.20 ppbV
RT: 11.687 min Scan# 1089
Delta R.T. 0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 97 Resp: 5563

Ion	Ratio	Lower	Upper
97	100		
61	62.1	41.3	61.9#
119	10.4	9.0	13.6

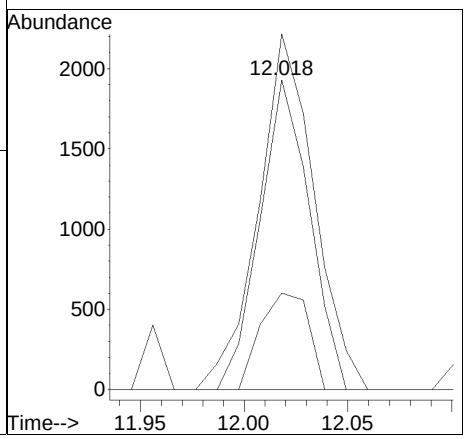


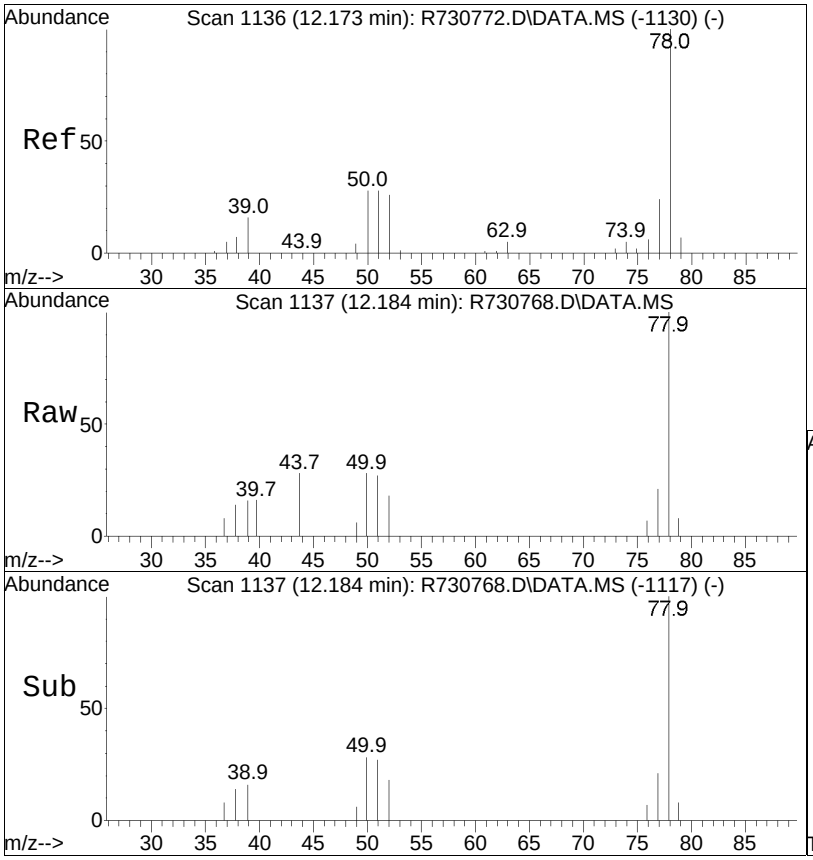


#49
1,1-dichloropropene
Concen: 0.21 ppbV
RT: 12.018 min Scan# 1121
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 75 Resp: 3223

Ion	Ratio	Lower	Upper
75	100		
110	31.2	27.0	40.4
39	114.9	87.0	130.6

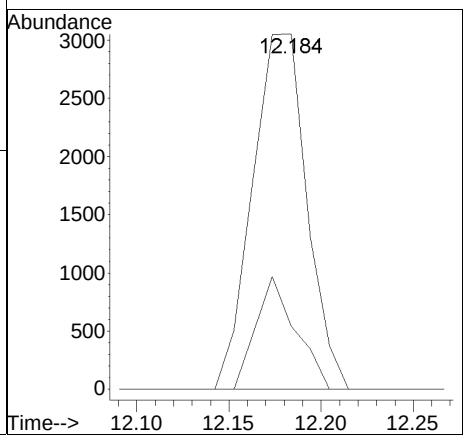


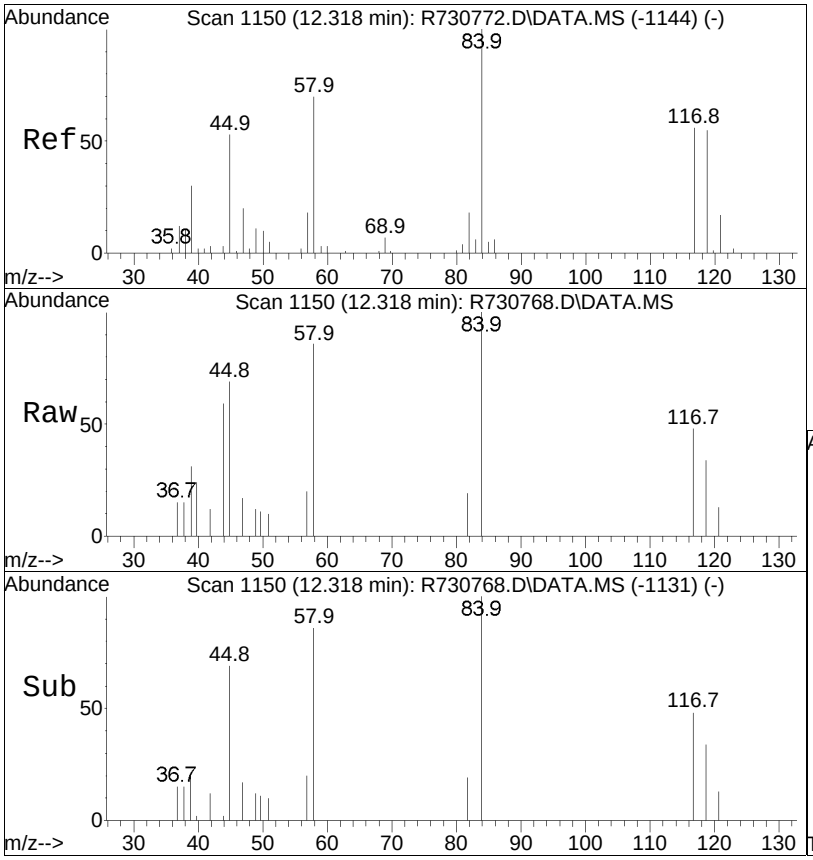


#50
benzene
Concen: 0.24 ppbV
RT: 12.184 min Scan# 1137
Delta R.T. 0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 78 Resp: 6279

Ion	Ratio	Lower	Upper
78	100		
52	17.7	20.8	31.2#

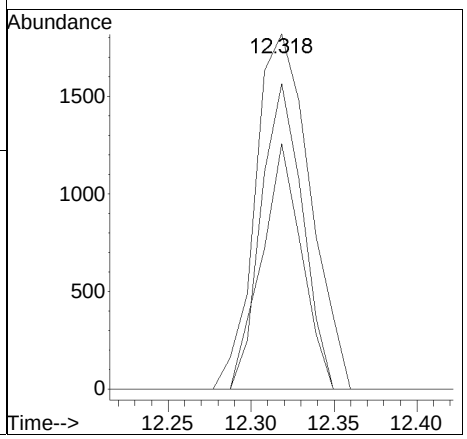


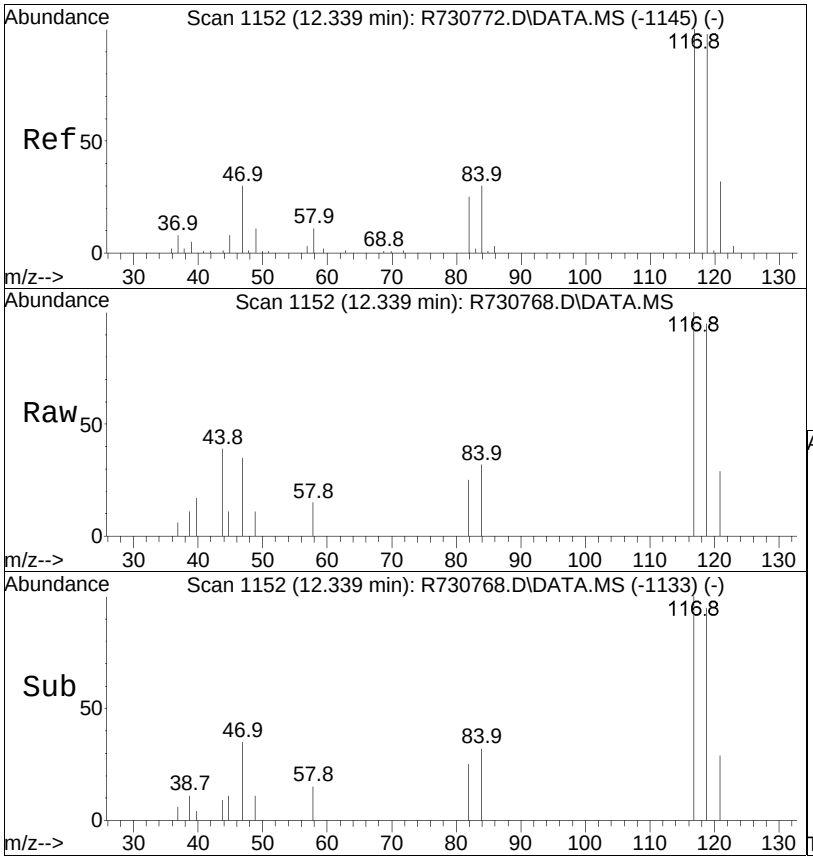


#51
thiophene
Concen: 0.22 ppbV
RT: 12.318 min Scan# 1150
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 84 Resp: 4185

Ion	Ratio	Lower	Upper
84	100		
58	86.0	56.3	84.5#
45	69.1	42.2	63.2#

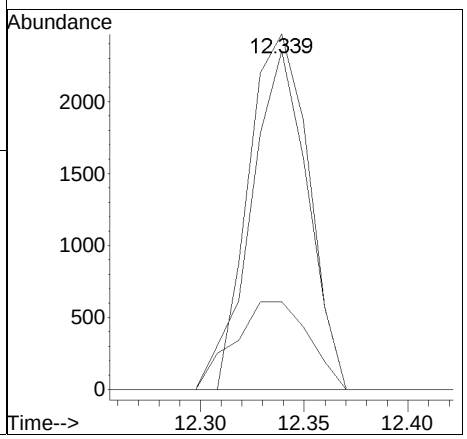


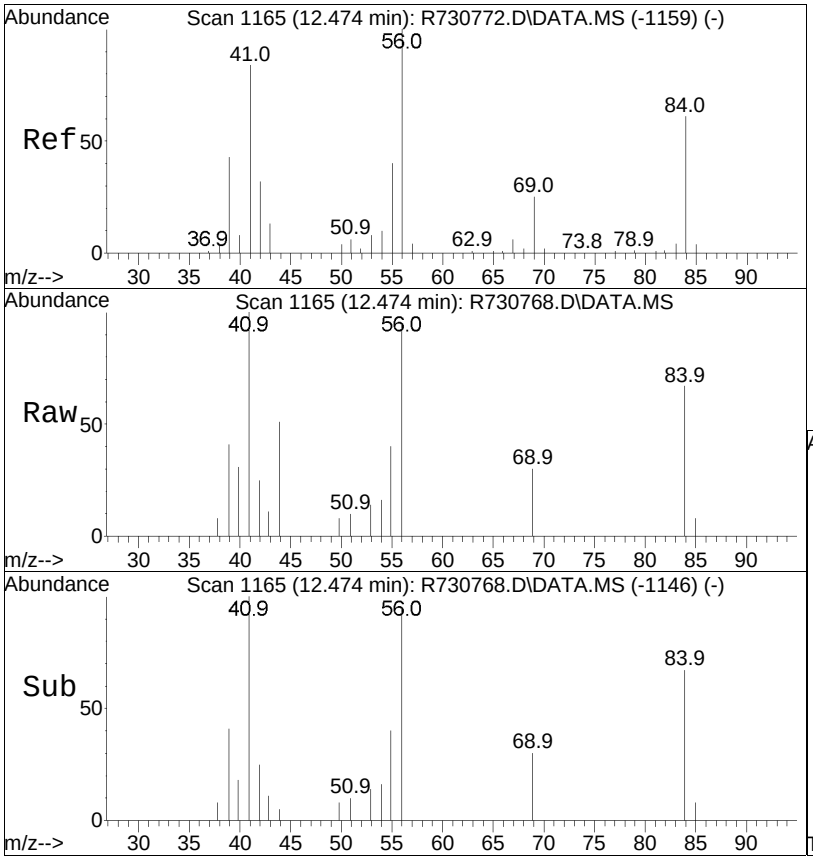


#52
carbon tetrachloride
Concen: 0.20 ppbV
RT: 12.339 min Scan# 1152
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:117 Resp: 4965

Ion	Ratio	Lower	Upper
117	100		
119	95.3	78.7	118.1
82	24.7	20.2	30.2

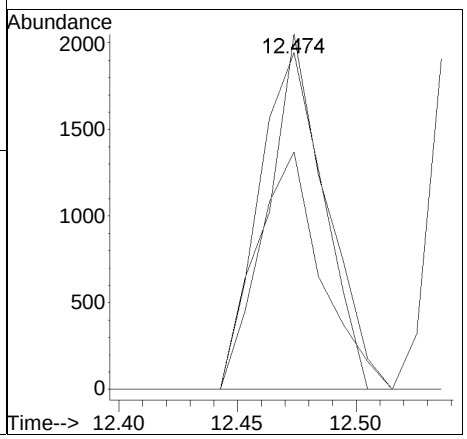


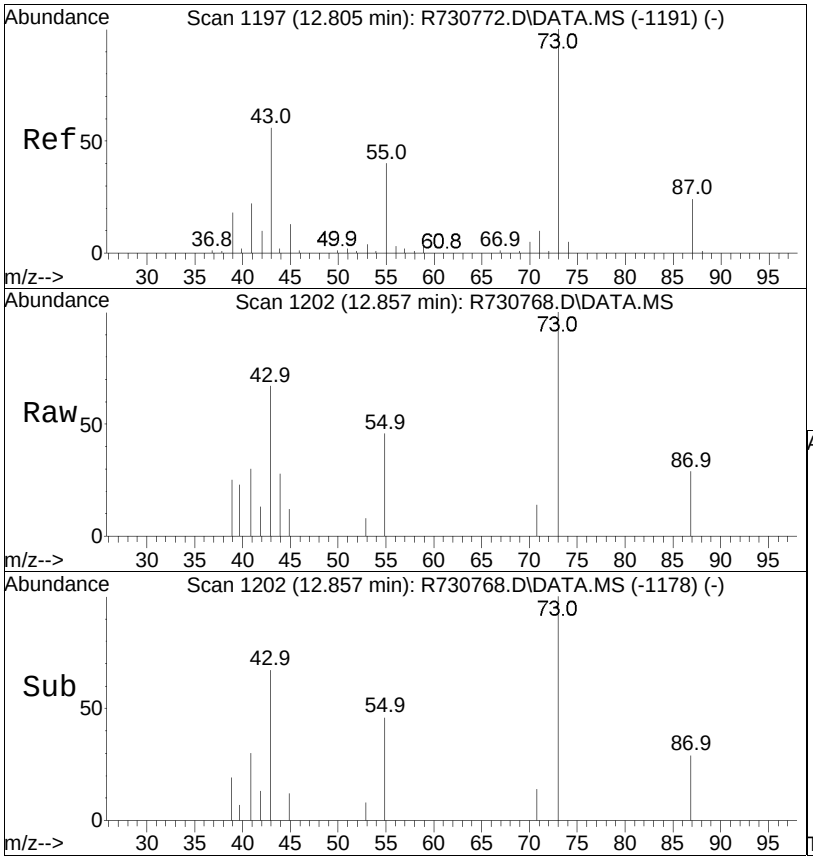


#53
cyclohexane
Concen: 0.21 ppbV
RT: 12.474 min Scan# 1165
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 56 Resp: 3706

Ion	Ratio	Lower	Upper
56	100		
84	70.5	49.6	74.4
41	105.5	67.0	100.4#

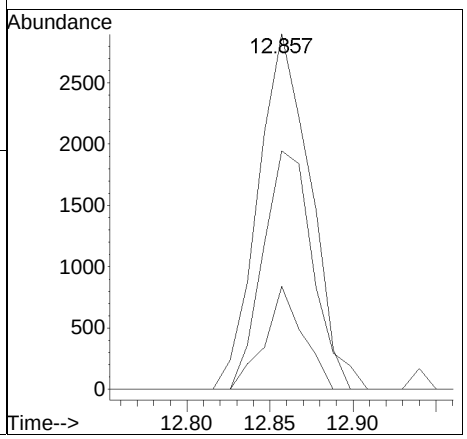


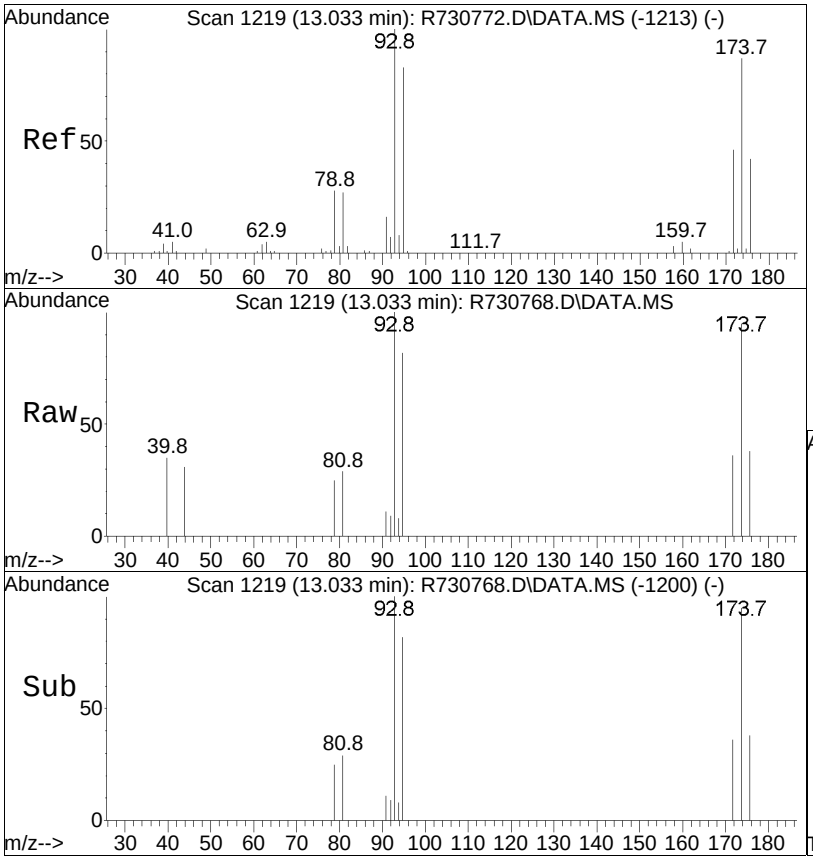


#54
tert-amyl methyl ether
Concen: 0.20 ppbV
RT: 12.857 min Scan# 1202
Delta R.T. 0.052 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 73 Resp: 6288

Ion	Ratio	Lower	Upper
73	100		
43	67.1	45.0	67.4
87	29.0	19.0	28.4#

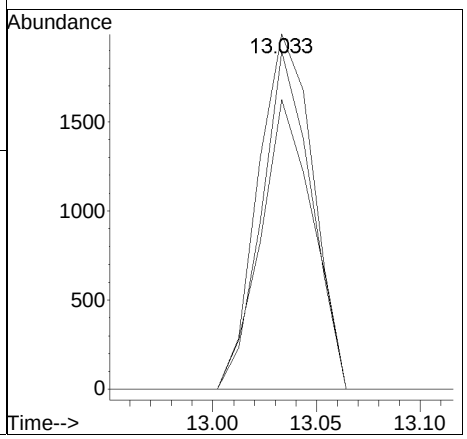


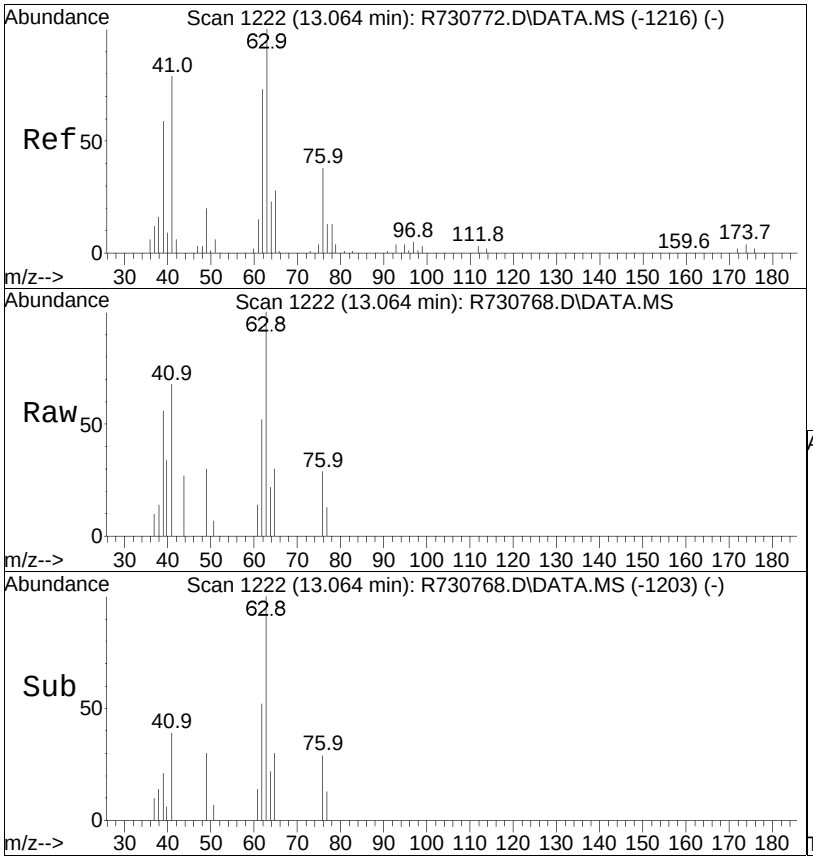


#55
dibromomethane
Concen: 0.22 ppbV
RT: 13.033 min Scan# 1219
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 93 Resp: 3680

Ion	Ratio	Lower	Upper
93	100		
174	95.1	69.4	104.2
95	81.5	66.3	99.5

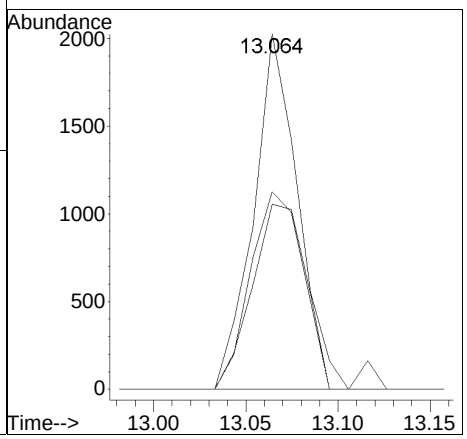


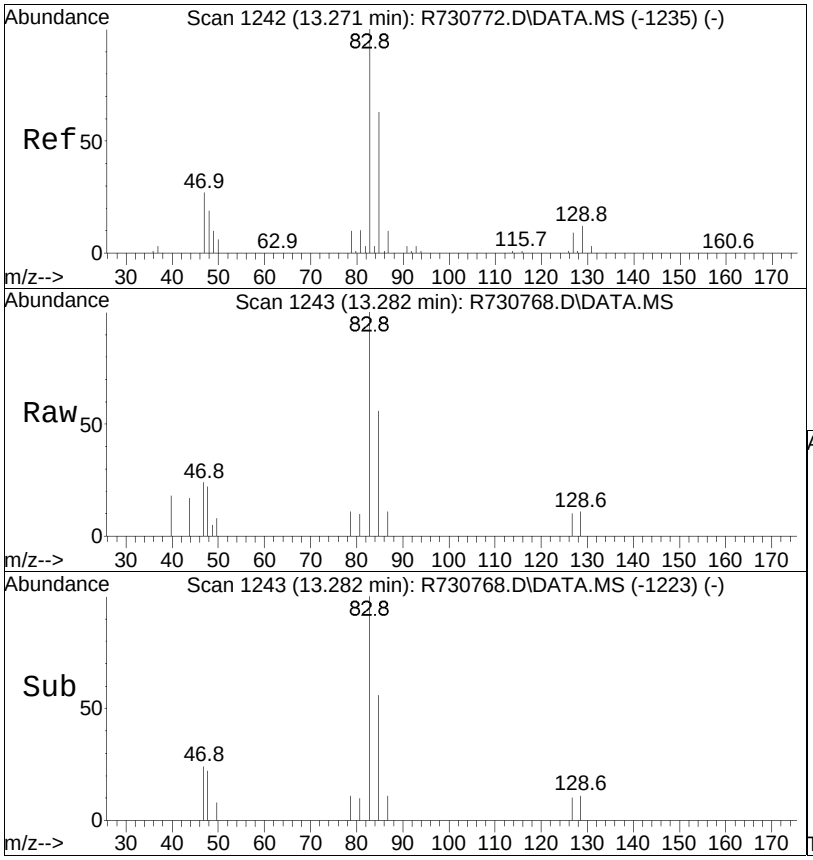


#56
1,2-dichloropropane
Concen: 0.22 ppbV
RT: 13.064 min Scan# 1222
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 63 Resp: 3408

Ion	Ratio	Lower	Upper
63	100		
62	52.1	58.3	87.5#
39	55.6	47.0	70.4

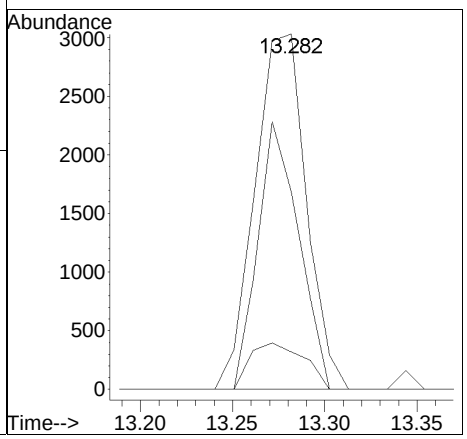


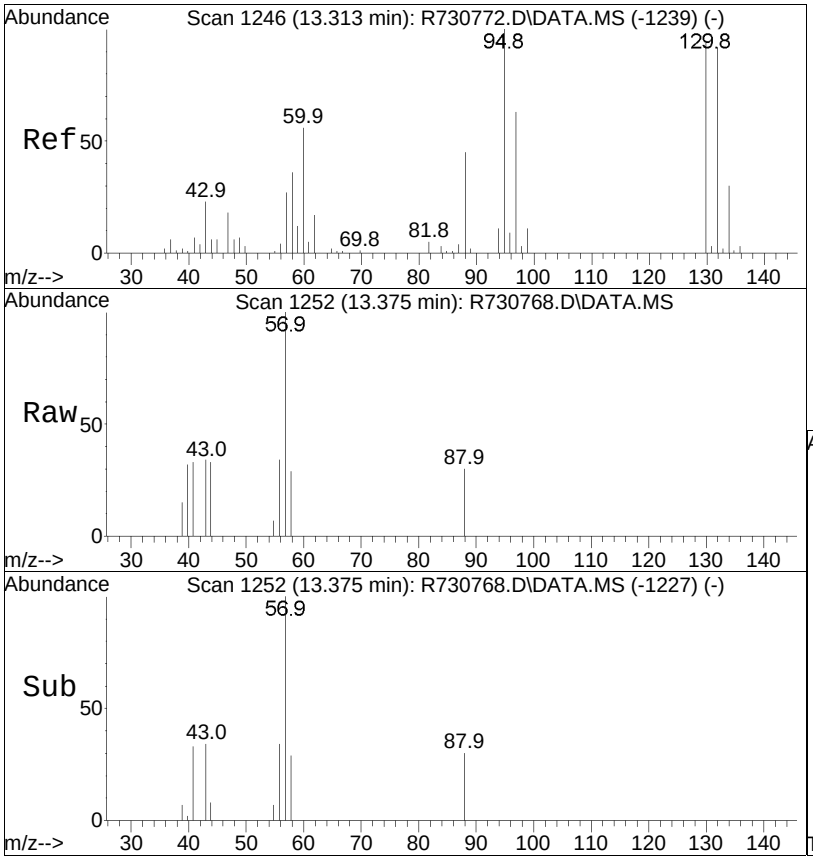


#57
bromodichloromethane
Concen: 0.19 ppbV
RT: 13.282 min Scan# 1243
Delta R.T. 0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 83 Resp: 5890

Ion	Ratio	Lower	Upper
83	100		
85	55.6	50.2	75.4
129	10.6	9.4	14.2

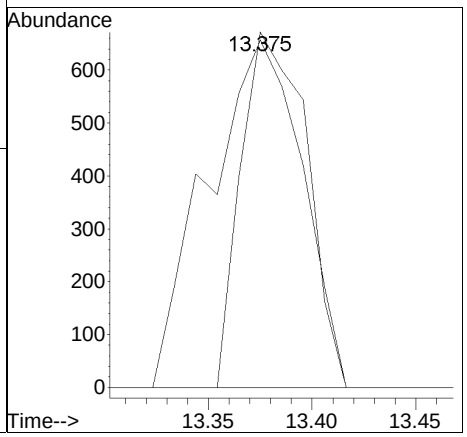


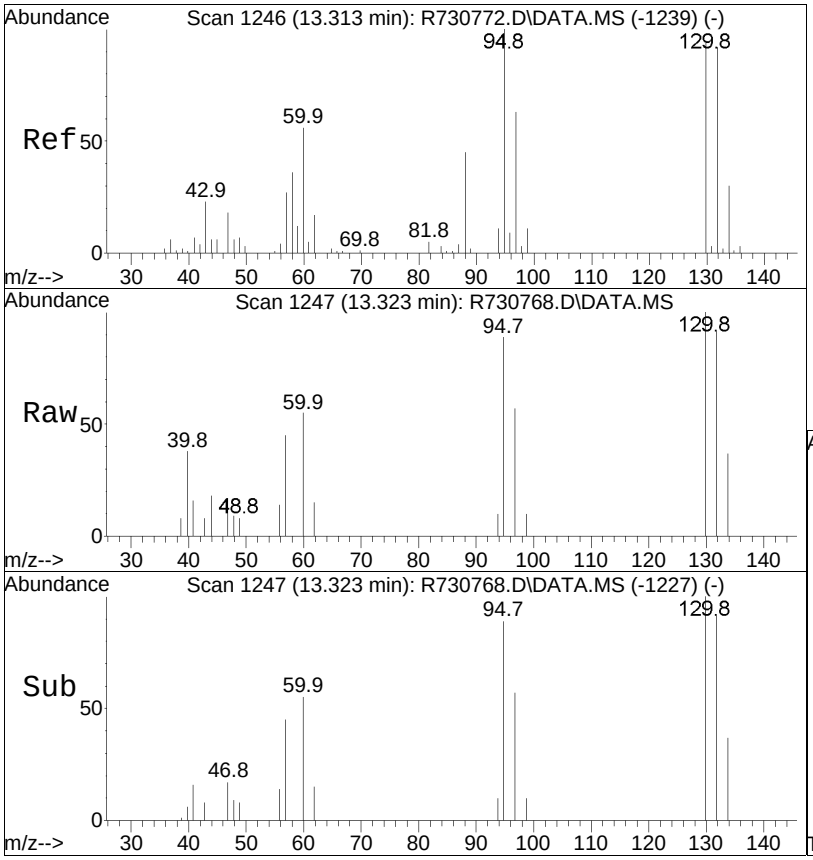


#58
1,4-dioxane
Concen: 0.17 ppbV
RT: 13.375 min Scan# 1252
Delta R.T. 0.062 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 88 Resp: 1476

Ion	Ratio	Lower	Upper
88	100		
58	97.8	65.0	97.6#

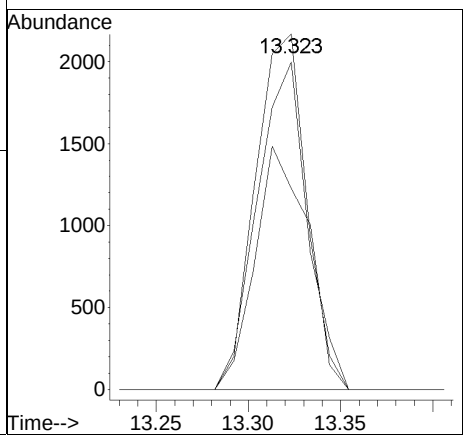


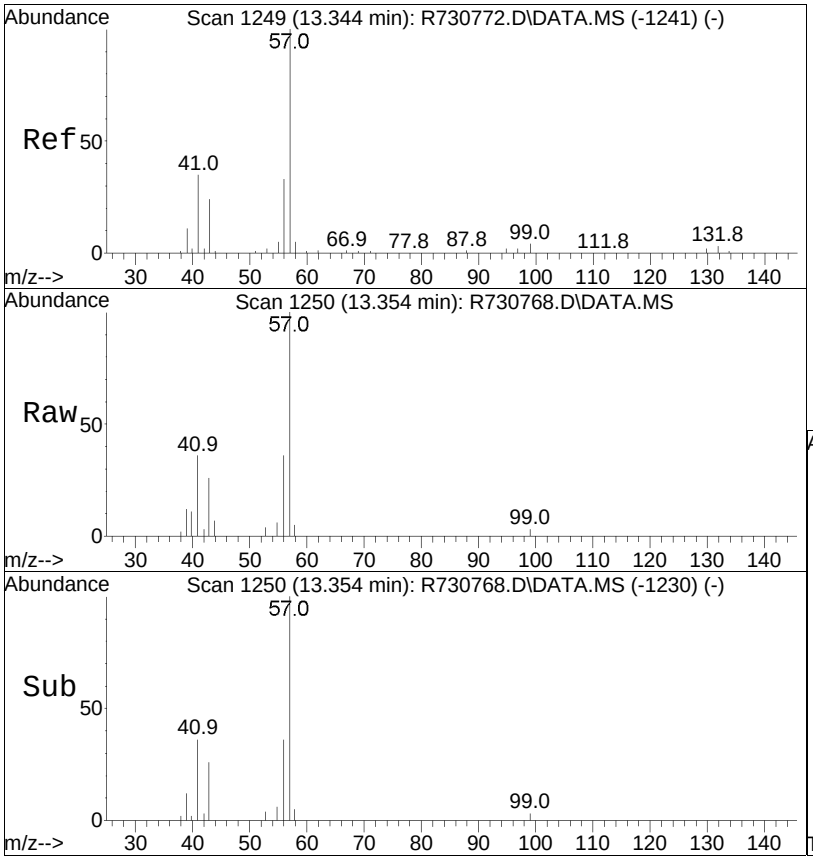


#59
trichloroethene
Concen: 0.22 ppbV
RT: 13.323 min Scan# 1247
Delta R.T. 0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:130 Resp: 4185

Ion	Ratio	Lower	Upper
130	100		
132	92.1	77.9	116.9
97	56.5	52.9	79.3

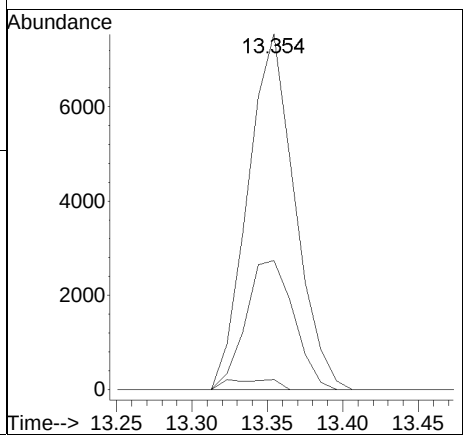


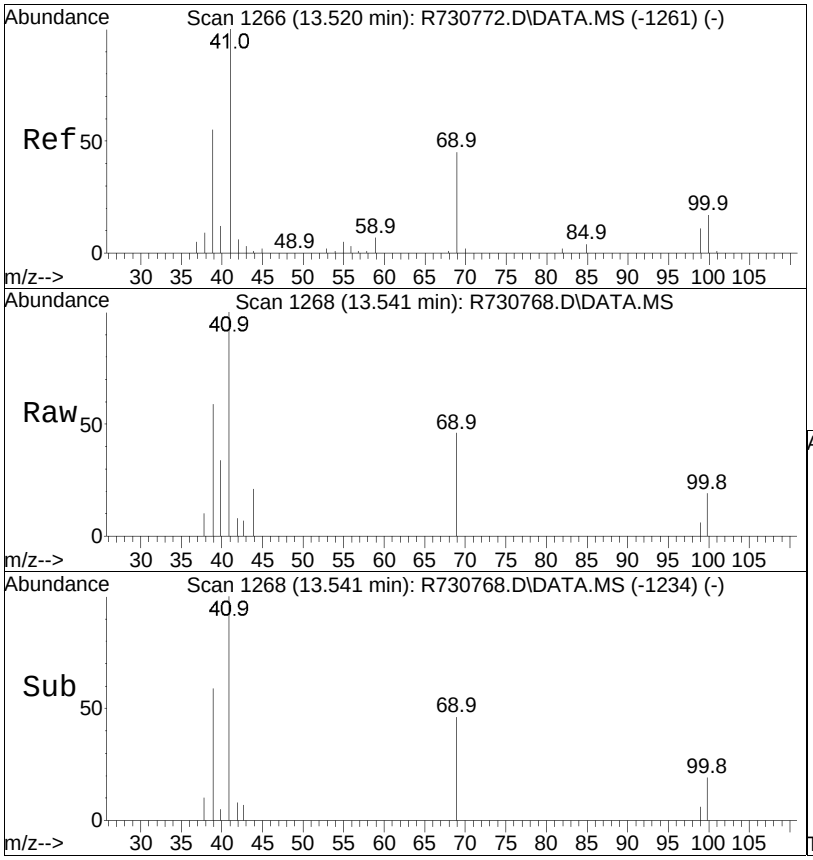


#60
2,2,4-trimethylpentane
Concen: 0.20 ppbV
RT: 13.354 min Scan# 1250
Delta R.T. 0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 57 Resp: 16324

Ion	Ratio	Lower	Upper
57	100		
99	2.8	3.0	4.6#
41	36.3	28.4	42.6

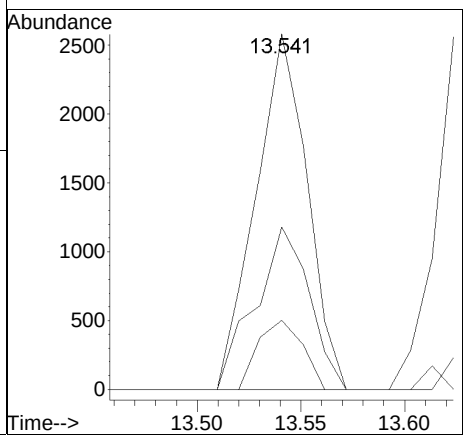


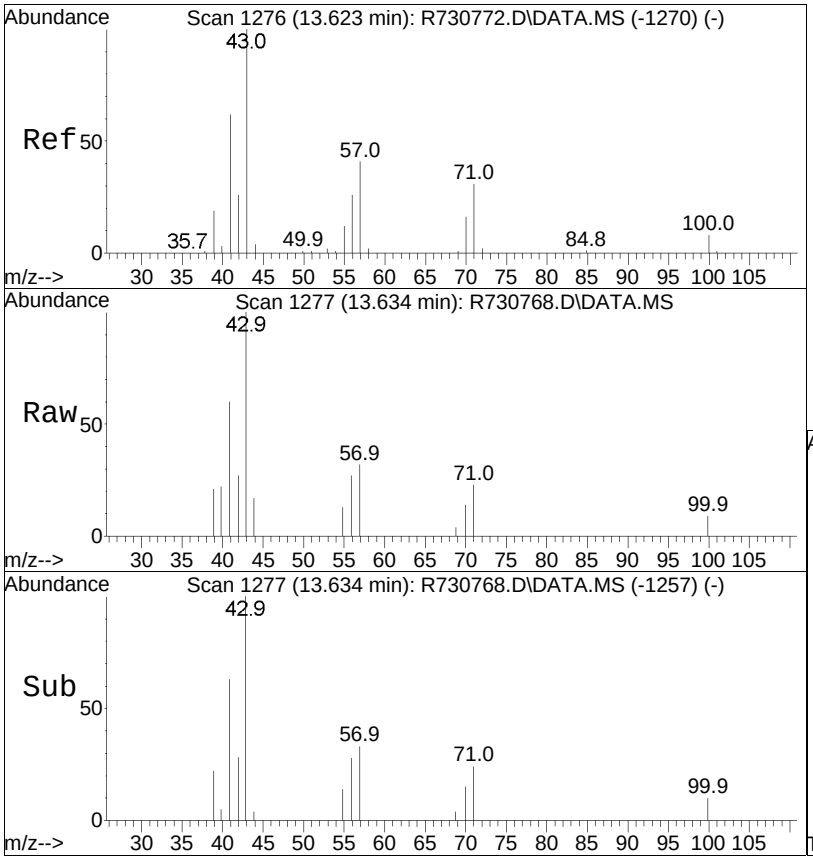


#61
methyl methacrylate
Concen: 0.17 ppbV
RT: 13.541 min Scan# 1268
Delta R.T. 0.021 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 41 Resp: 4449

Ion	Ratio	Lower	Upper
41	100		
69	48.0	35.7	53.5
100	16.9	12.9	19.3

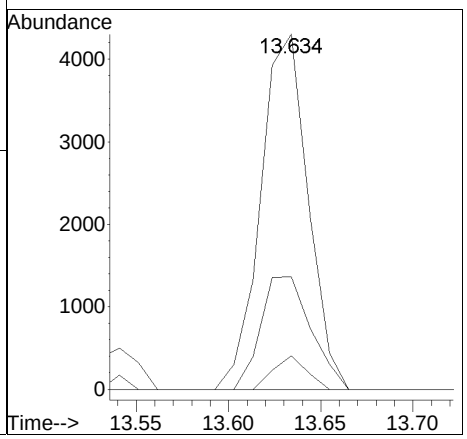


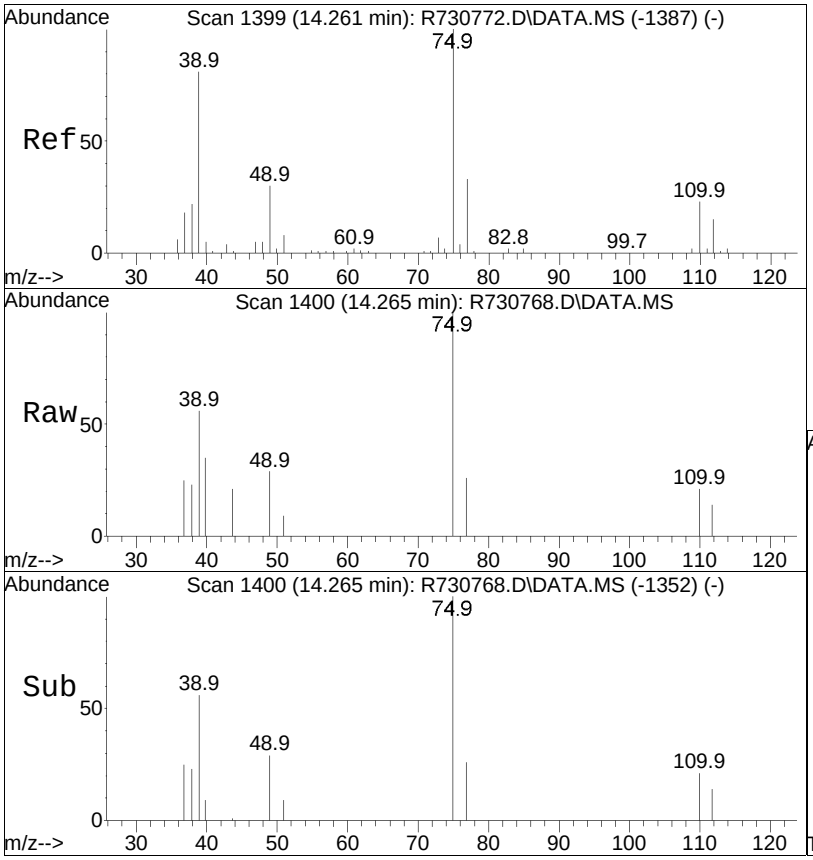


#62
heptane
Concen: 0.21 ppbV
RT: 13.634 min Scan# 1277
Delta R.T. 0.010 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 7693

Ion	Ratio	Lower	Upper
43	100		
57	31.8	32.9	49.3#
100	9.5	6.2	9.2#

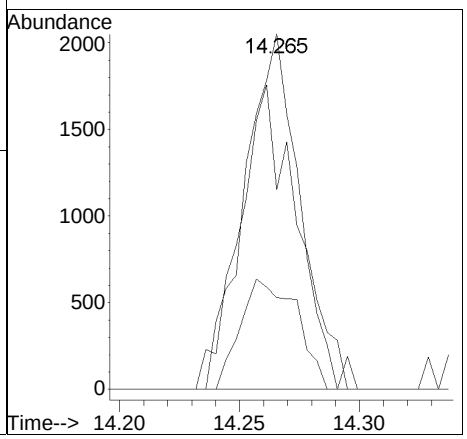


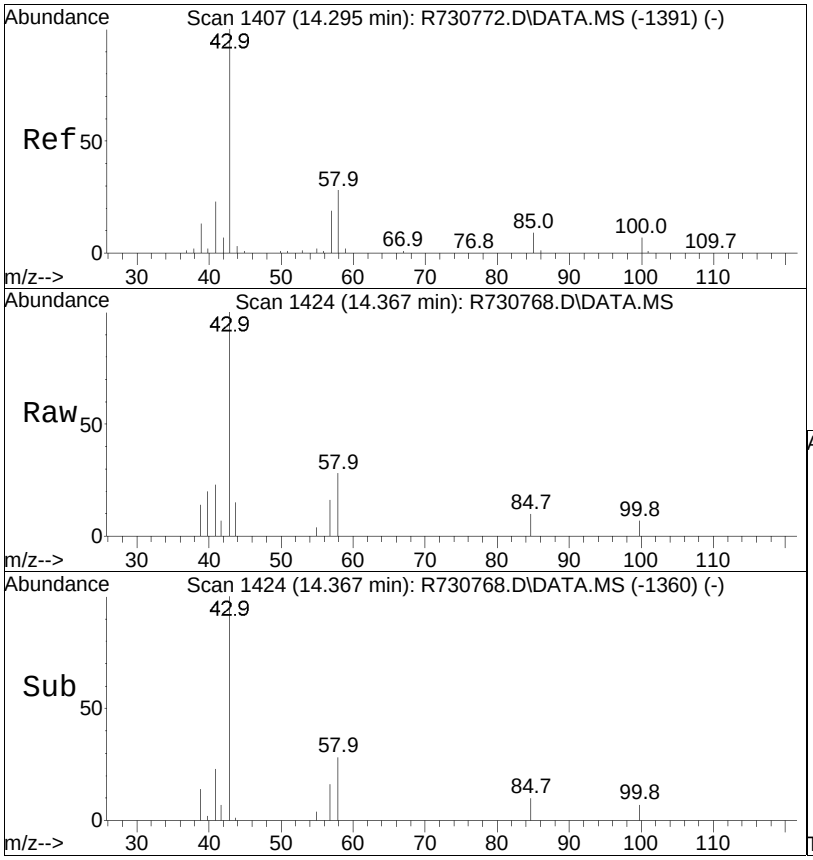


#63
cis-1,3-dichloropropene
Concen: 0.17 ppbV
RT: 14.265 min Scan# 1400
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 75 Resp: 3259

Ion	Ratio	Lower	Upper
75	100		
39	56.2	65.0	97.4#
77	25.8	26.1	39.1#

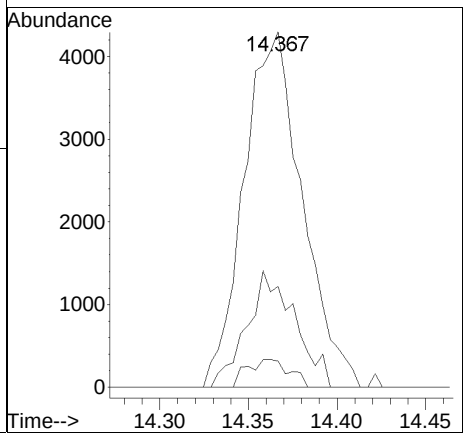


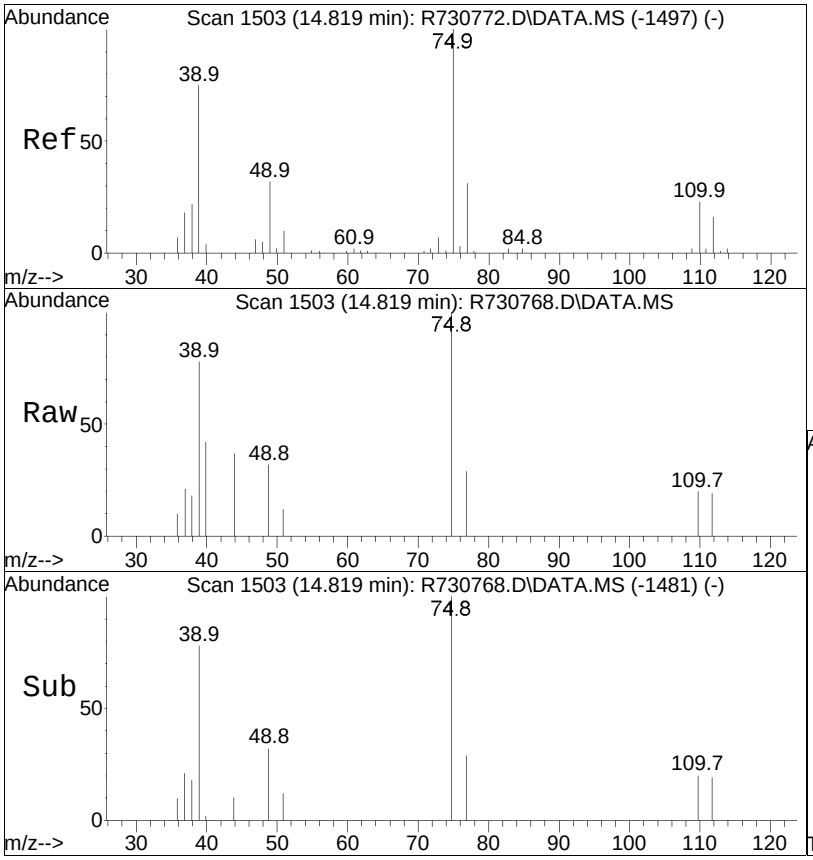


#64
4-methyl-2-pentanone
Concen: 0.19 ppbV
RT: 14.367 min Scan# 1424
Delta R.T. 0.072 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 9840

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.7	34.1
100	7.4	5.8	8.6

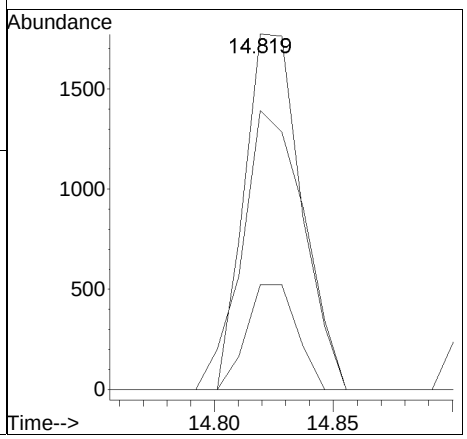


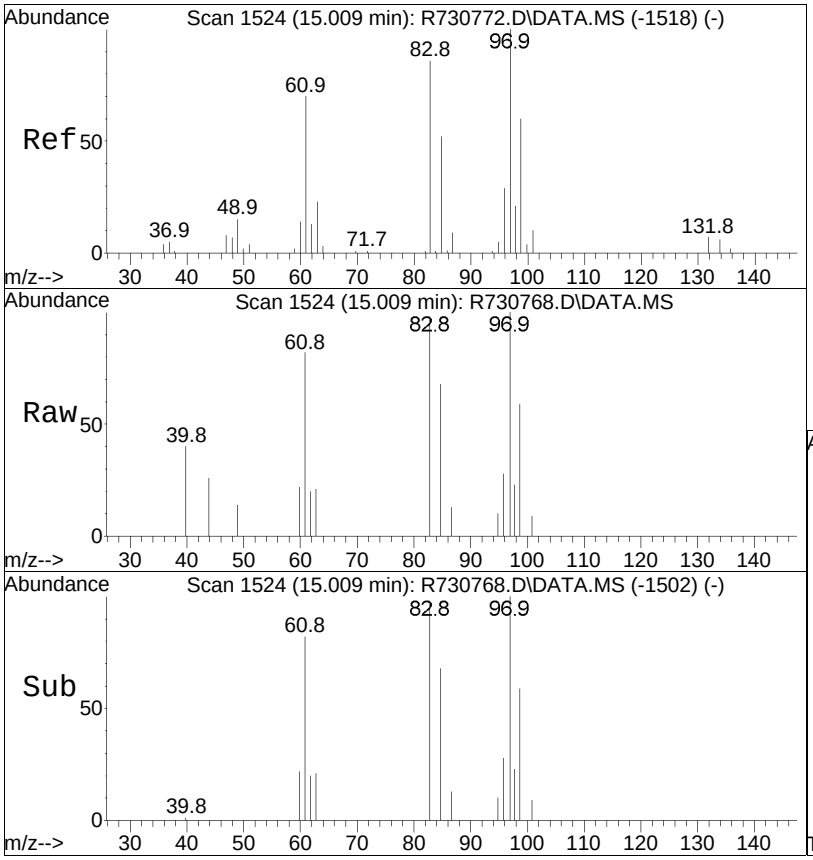


#65
trans-1,3-dichloropropene
Concen: 0.15 ppbV
RT: 14.819 min Scan# 1503
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 75 Resp: 2951

Ion	Ratio	Lower	Upper
75	100		
77	29.5	25.1	37.7
39	78.5	60.1	90.1

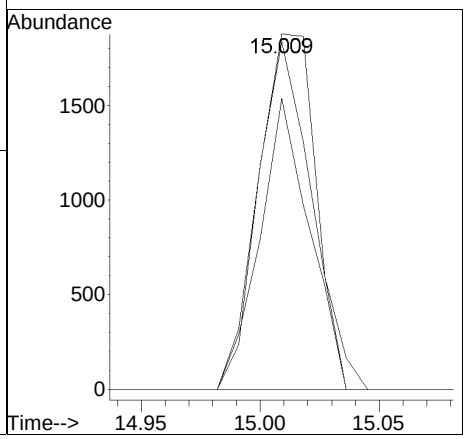


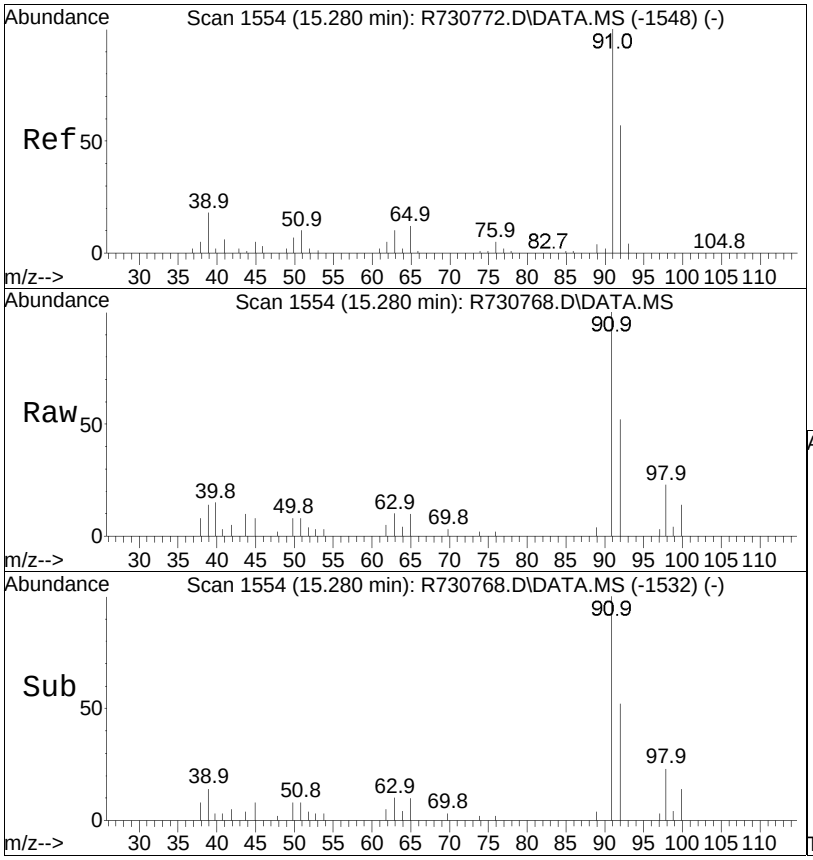


#66
1,1,2-trichloroethane
Concen: 0.20 ppbV
RT: 15.009 min Scan# 1524
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 97 Resp: 3171

Ion	Ratio	Lower	Upper
97	100		
83	97.8	68.6	102.8
61	81.9	56.2	84.2

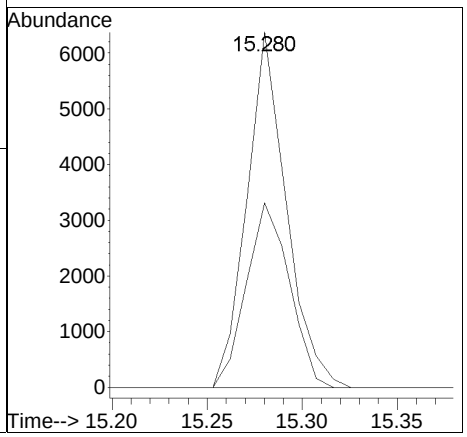


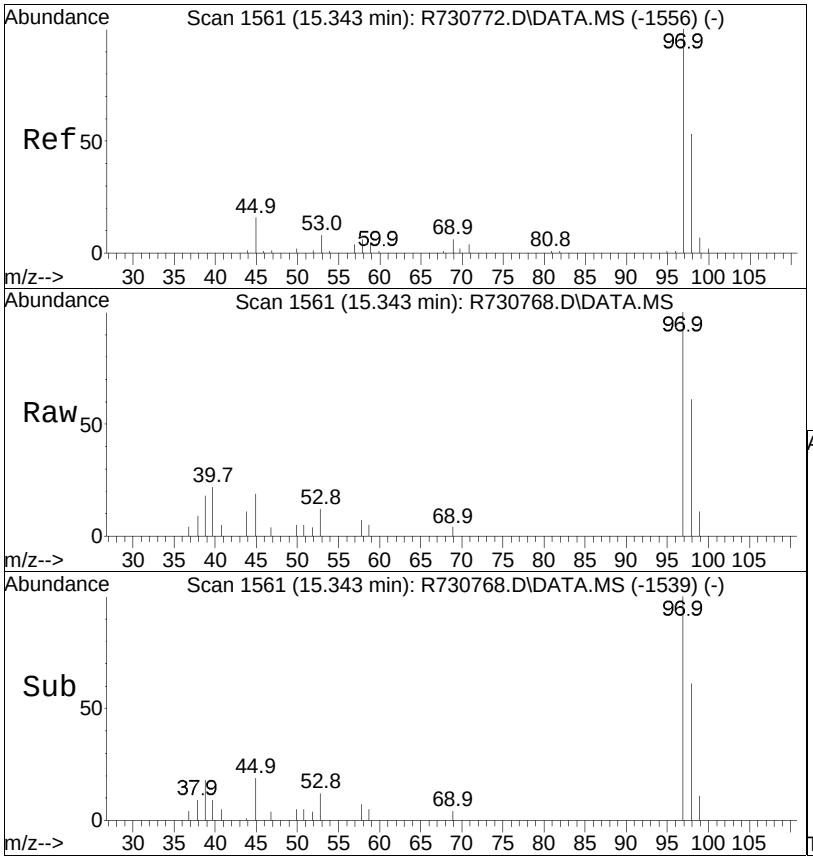


#68
toluene
Concen: 0.23 ppbV
RT: 15.280 min Scan# 1554
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 91 Resp: 9203

Ion	Ratio	Lower	Upper
91	100		
92	51.9	45.4	68.0

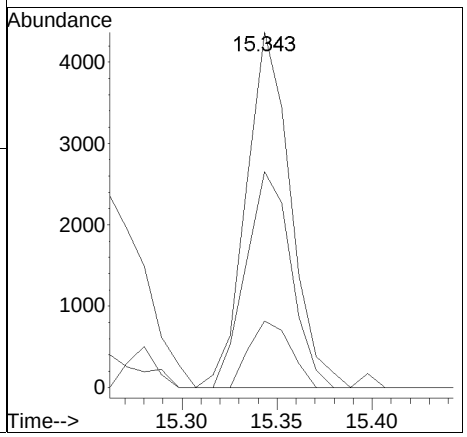


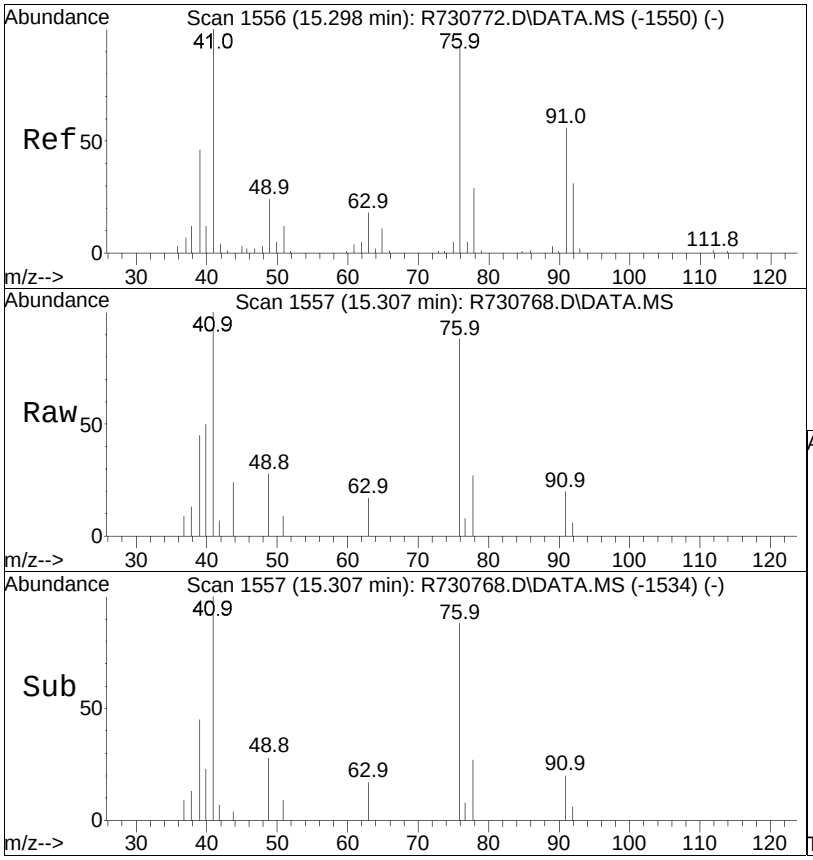


#70
2-methylthiophene
Concen: 0.21 ppbV
RT: 15.343 min Scan# 1561
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 97 Resp: 7106

Ion	Ratio	Lower	Upper
97	100		
98	60.7	42.6	63.8
45	18.7	14.4	21.6

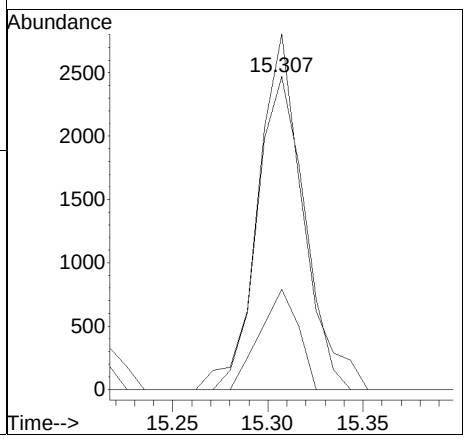


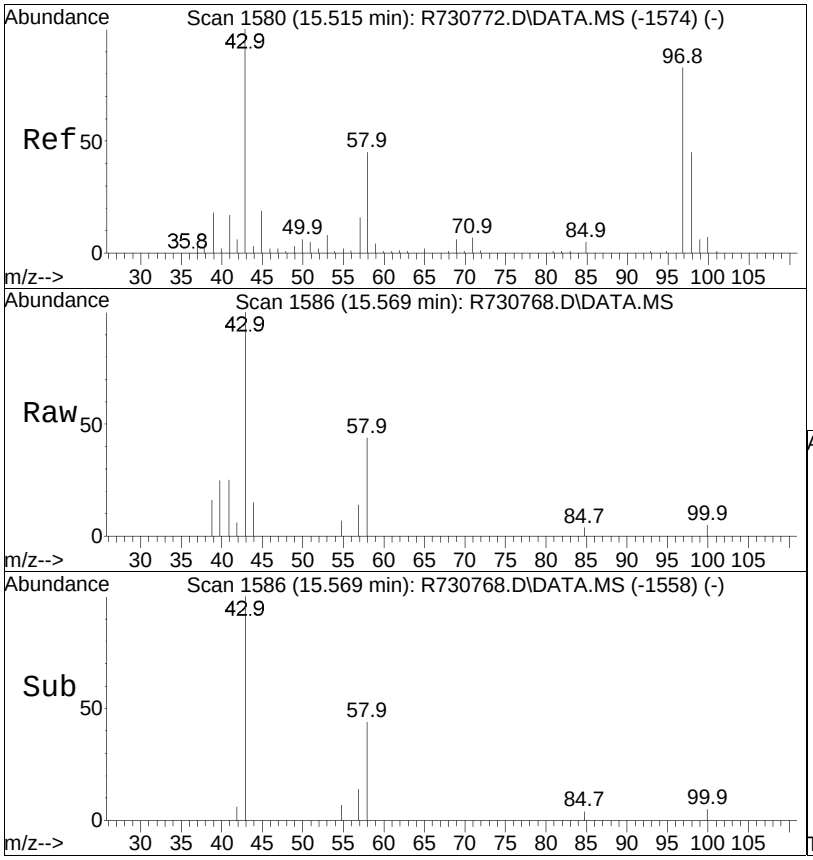


#71
1,3-dichloropropane
Concen: 0.23 ppbV
RT: 15.307 min Scan# 1557
Delta R.T. 0.009 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 76 Resp: 4259

Ion	Ratio	Lower	Upper
76	100		
41	113.6	86.2	129.4
49	32.0	20.9	31.3#

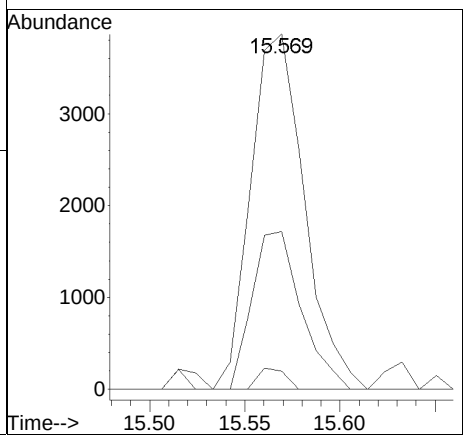


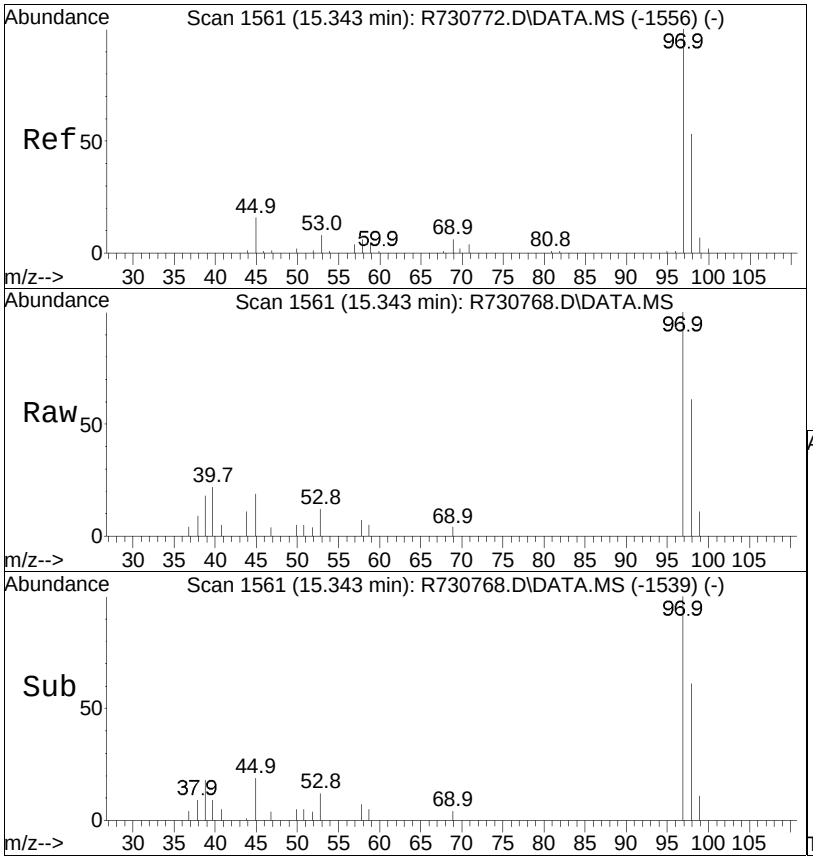


#72
2-hexanone
Concen: 0.18 ppbV
RT: 15.569 min Scan# 1586
Delta R.T. 0.054 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 7618

Ion	Ratio	Lower	Upper
43	100		
58	44.4	35.6	53.4
100	5.1	5.9	8.9#

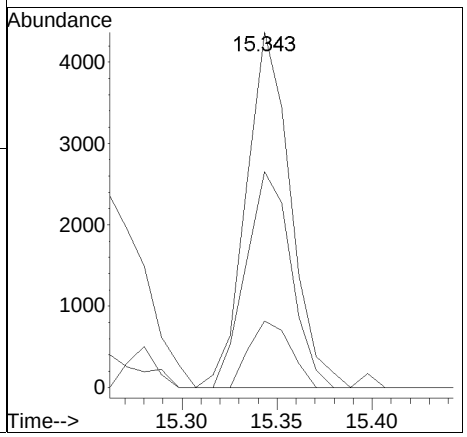


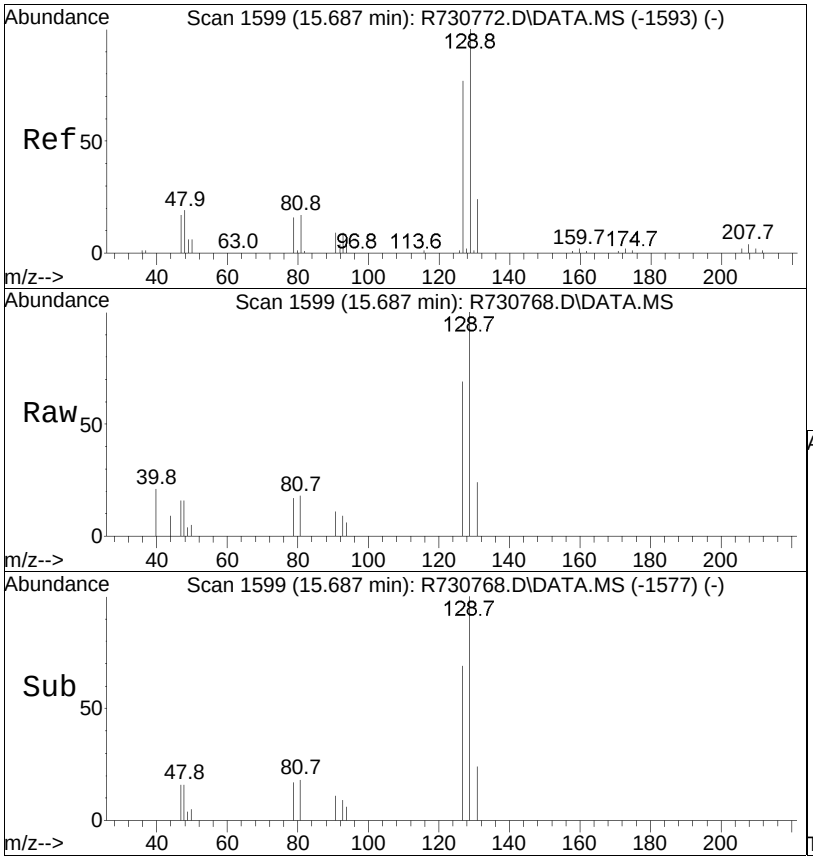


#73
3-methylthiophene
Concen: 0.21 ppbV
RT: 15.343 min Scan# 1561
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 97 Resp: 7106

Ion	Ratio	Lower	Upper
97	100		
98	60.7	42.6	63.8
45	18.7	14.4	21.6

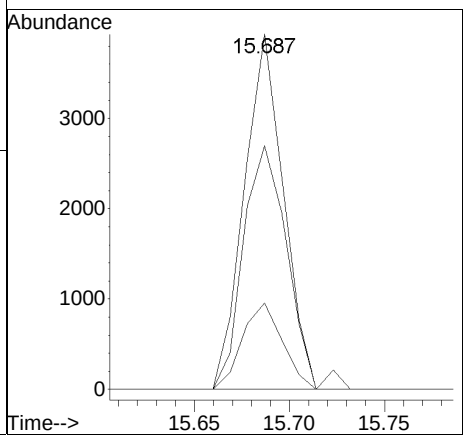


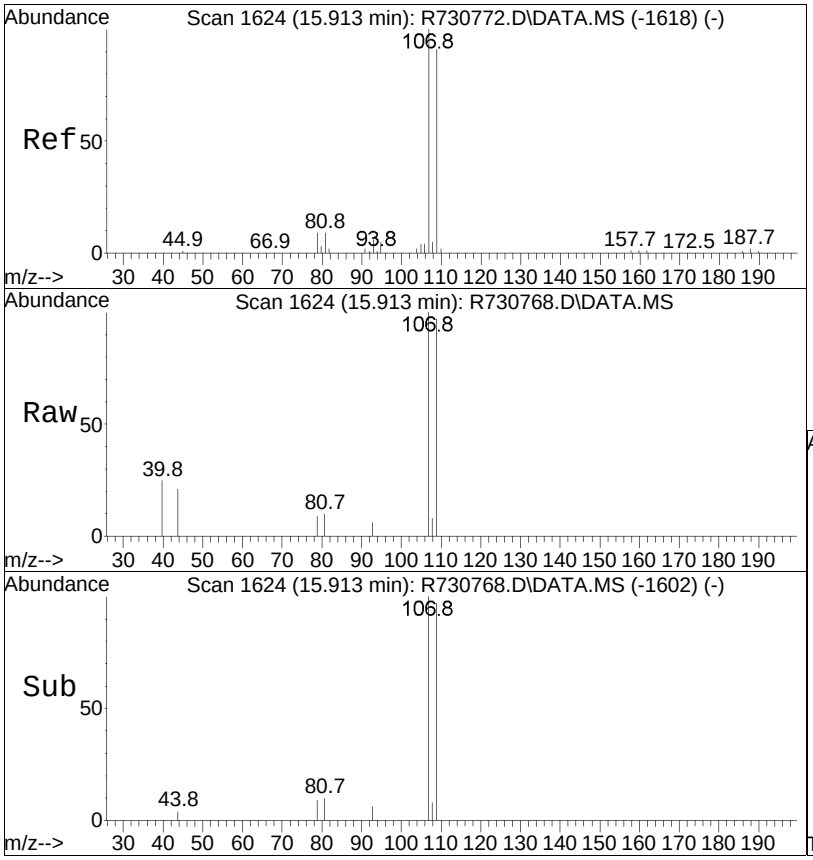


#74
dibromochloromethane
Concen: 0.20 ppbV
RT: 15.687 min Scan# 1599
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:129 Resp: 5766

Ion	Ratio	Lower	Upper
129	100		
127	68.6	61.8	92.8
131	24.3	19.0	28.4

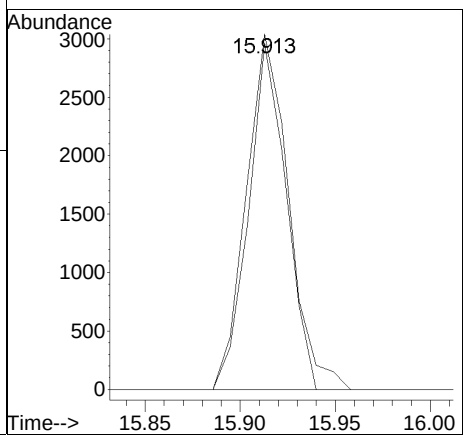


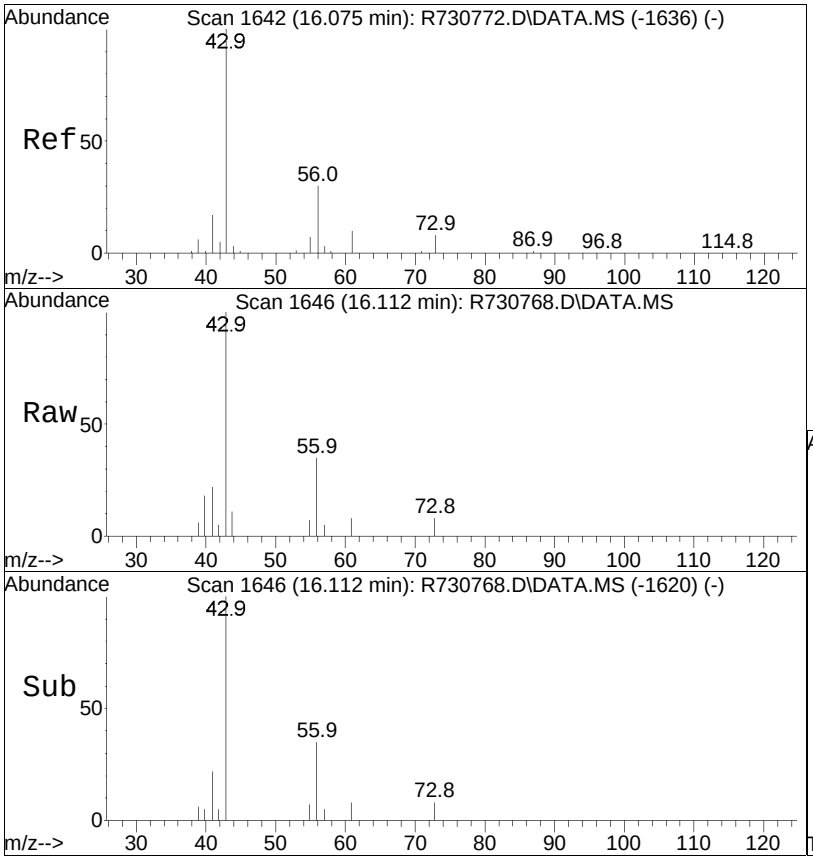


#75
1,2-dibromoethane
Concen: 0.21 ppbV
RT: 15.913 min Scan# 1624
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:107 Resp: 4701

Ion	Ratio	Lower	Upper
107	100		
109	97.4	72.6	108.8

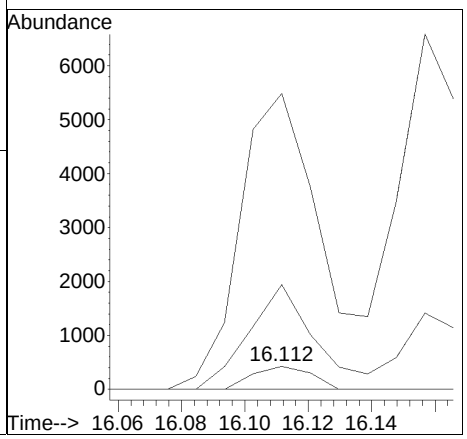


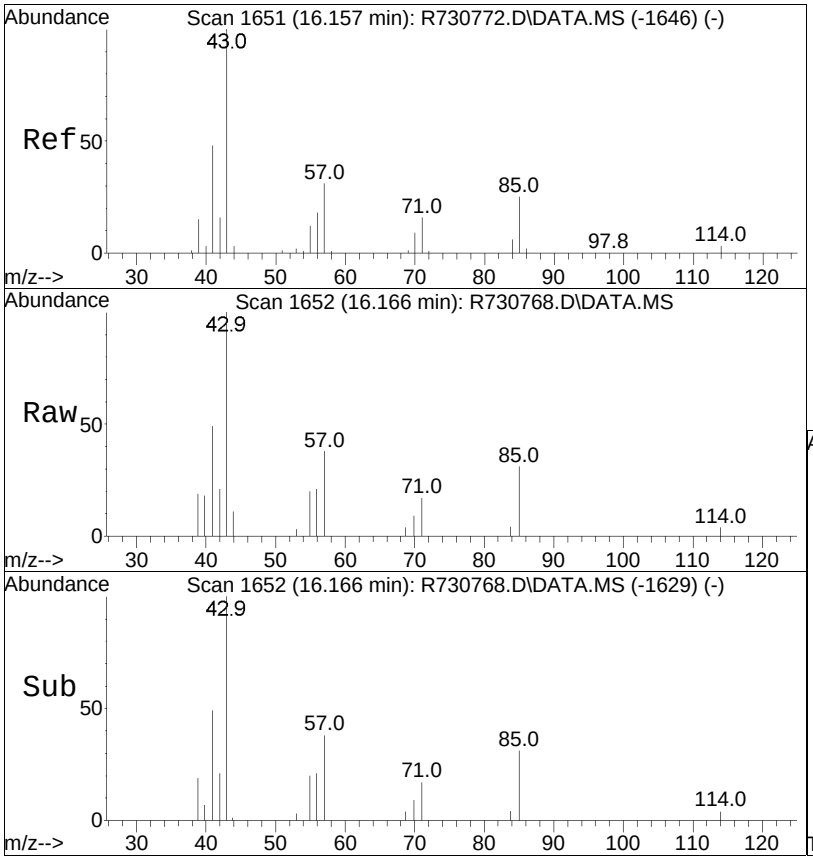


#76
butyl acetate
Concen: 0.14 ppbV
RT: 16.112 min Scan# 1646
Delta R.T. 0.036 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 73 Resp: 554

Ion	Ratio	Lower	Upper
73	100		
56	455.0	308.0	462.0
43	1285.2	1023.6	1535.4

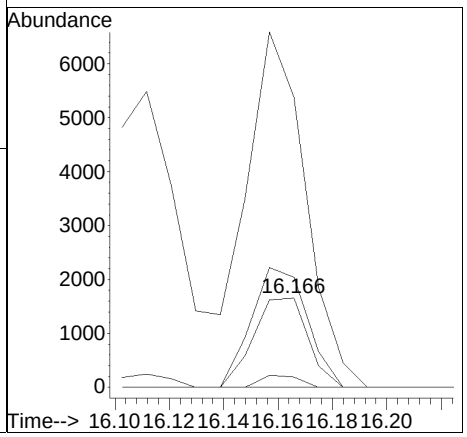


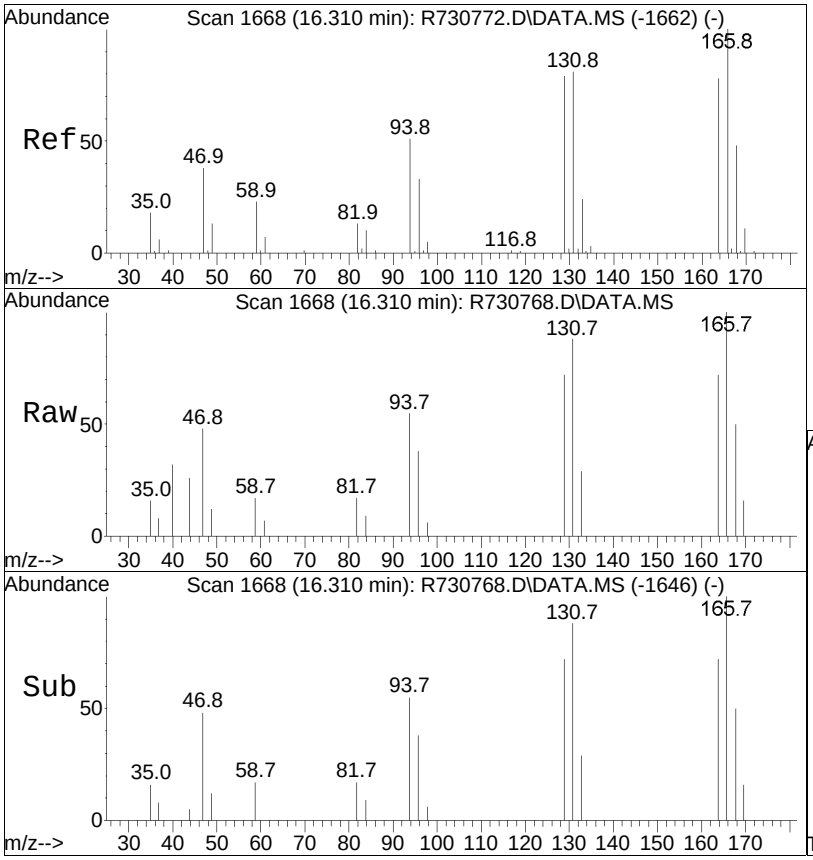


#77
octane
Concen: 0.22 ppbV
RT: 16.166 min Scan# 1652
Delta R.T. 0.009 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 85 Resp: 2308

Ion	Ratio	Lower	Upper
85	100		
57	123.5	97.1	145.7
114	11.5	9.7	14.5
43	324.9	321.5	482.3

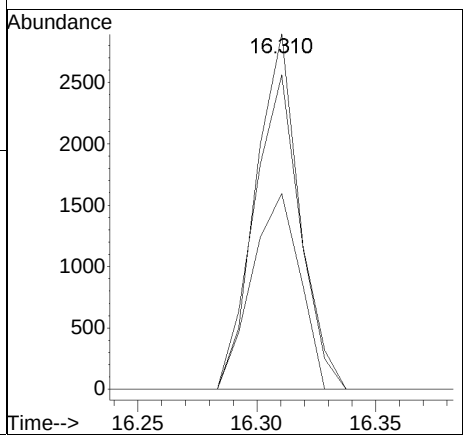


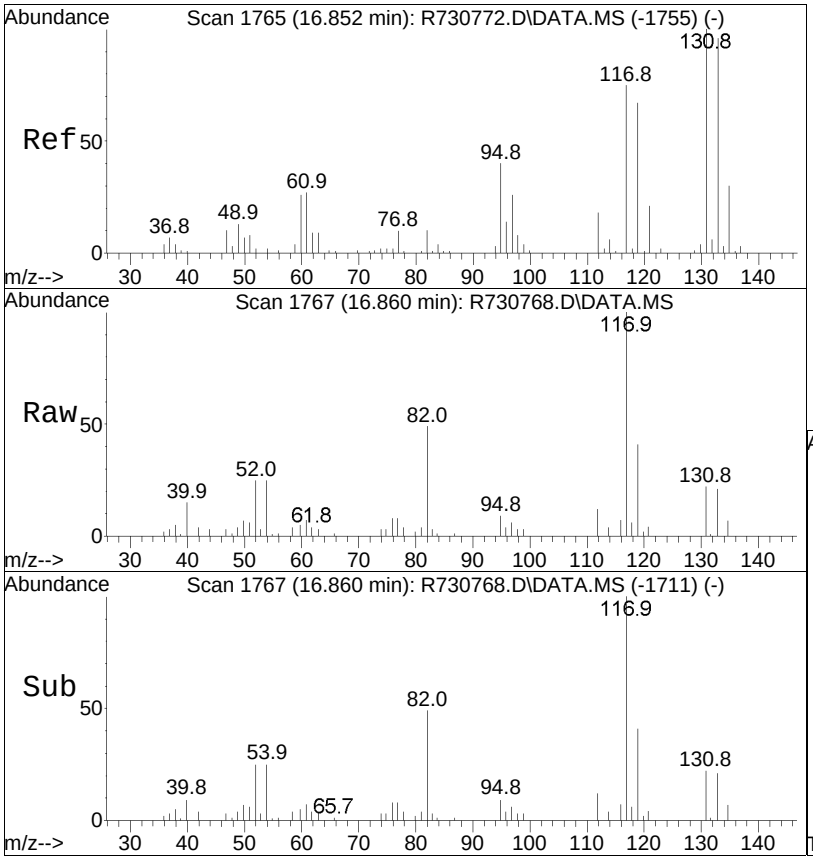


#78
tetrachloroethene
Concen: 0.20 ppbV
RT: 16.310 min Scan# 1668
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:166 Resp: 3719

Ion	Ratio	Lower	Upper
166	100		
131	88.5	64.5	96.7
94	55.1	40.6	61.0

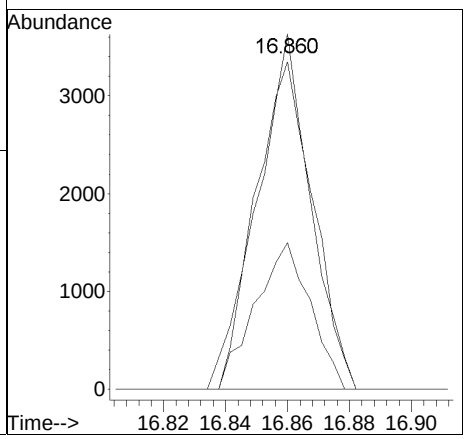


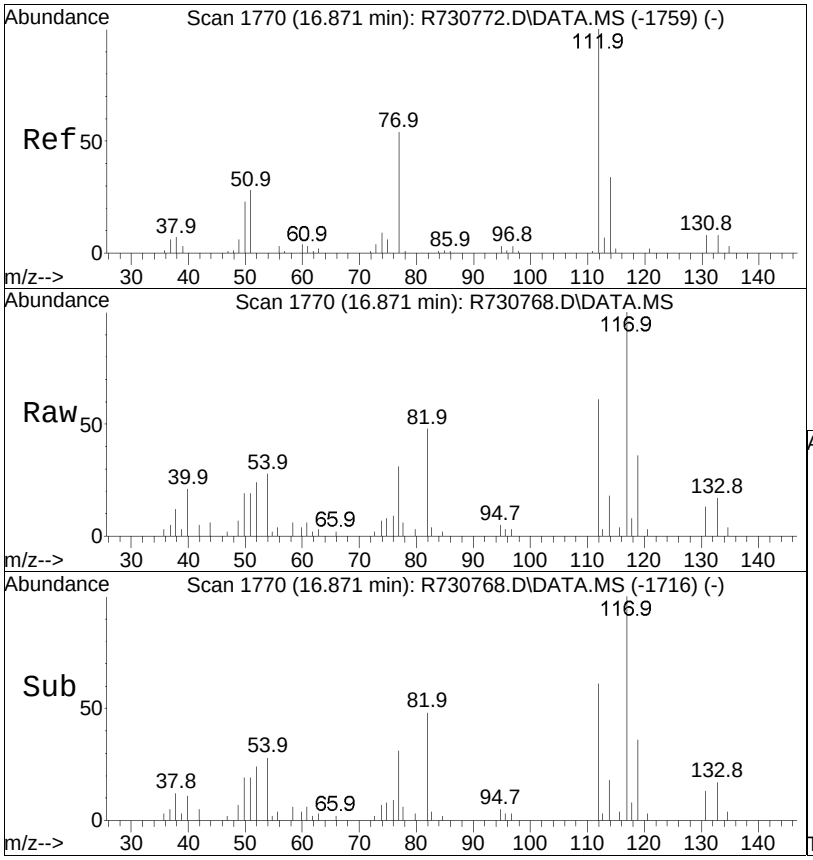


#79
1,1,1,2-tetrachloroethane
Concen: 0.22 ppbV
RT: 16.860 min Scan# 1767
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:131 Resp: 4350

Ion	Ratio	Lower	Upper
131	100		
133	92.2	76.5	114.7
95	41.3	32.0	48.0

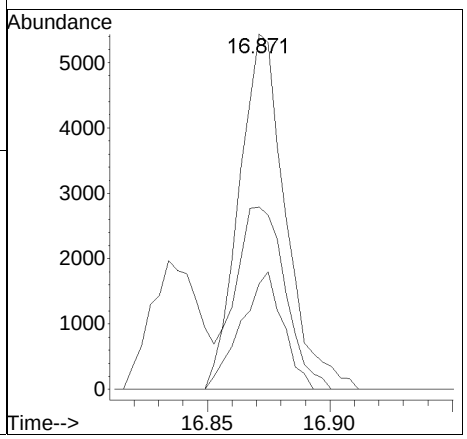


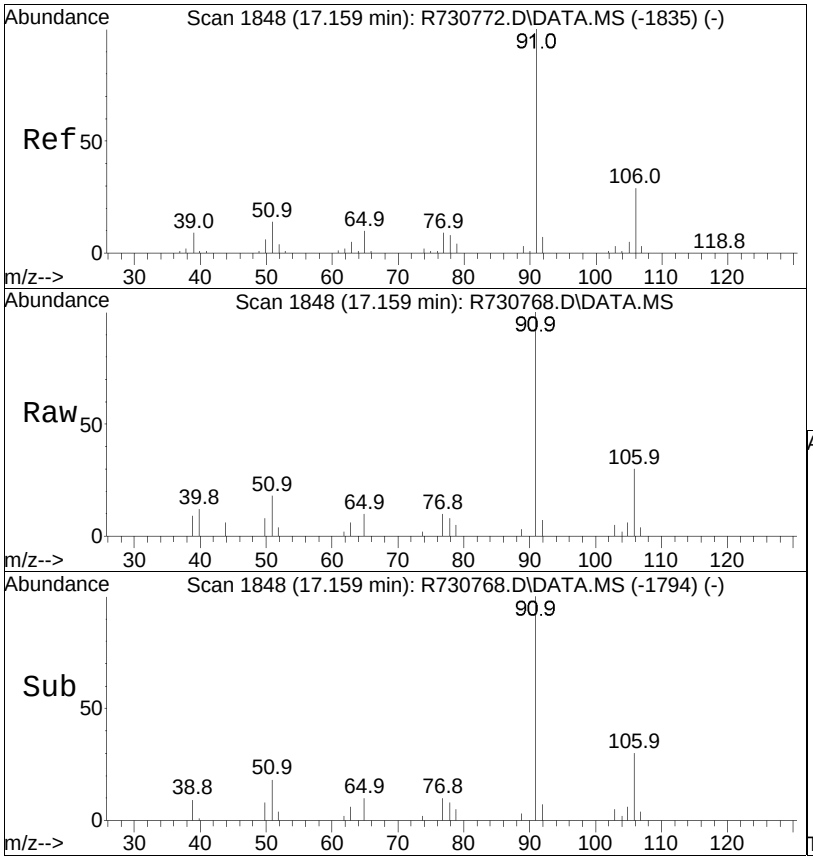


#80
chlorobenzene
Concen: 0.23 ppbV
RT: 16.871 min Scan# 1770
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:112 Resp: 7162

Ion	Ratio	Lower	Upper
112	100		
114	29.7	26.9	40.3
77	51.4	44.2	66.2

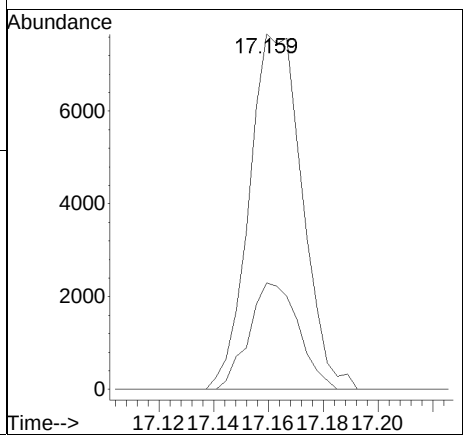


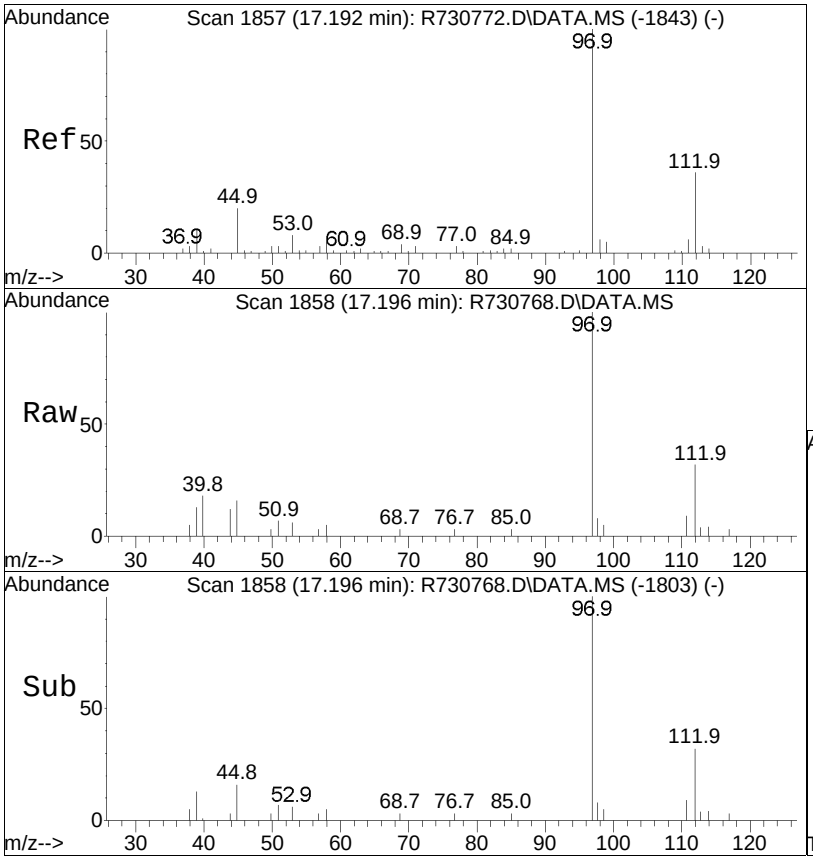


#81
ethylbenzene
Concen: 0.20 ppbV
RT: 17.159 min Scan# 1848
Delta R.T. 0.000 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 91 Resp: 10278

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.4	35.0

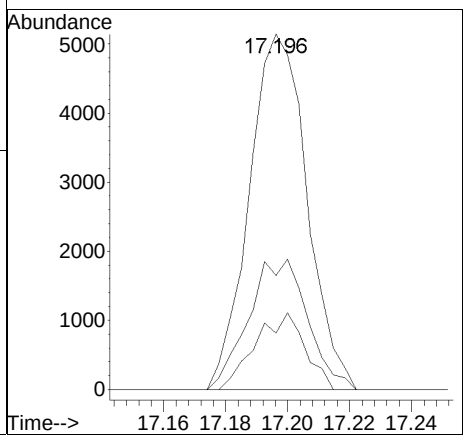


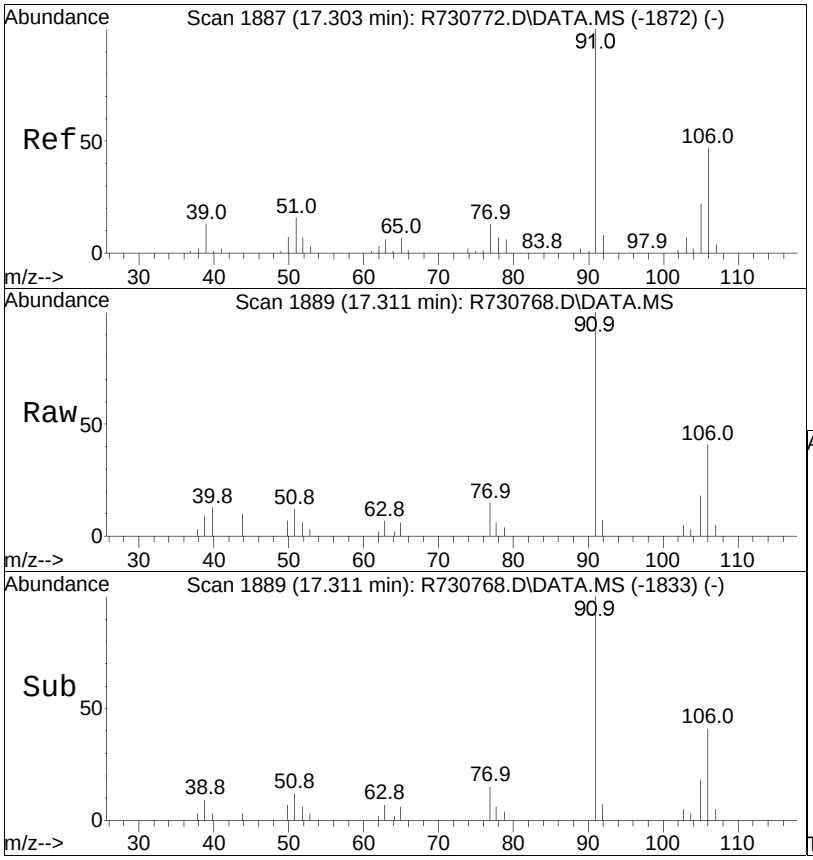


#82
2-ethylthiophene
Concen: 0.18 ppbV
RT: 17.196 min Scan# 1858
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 97 Resp: 6642

Ion	Ratio	Lower	Upper
97	100		
112	32.1	29.2	43.8
45	15.8	15.7	23.5

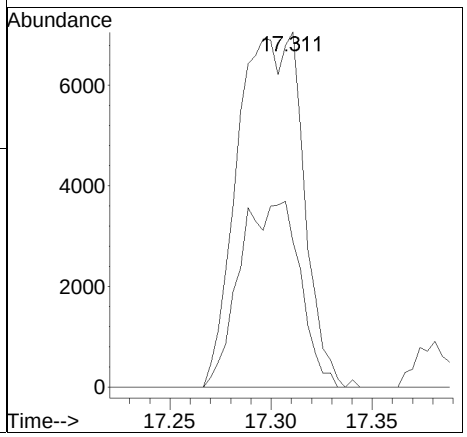


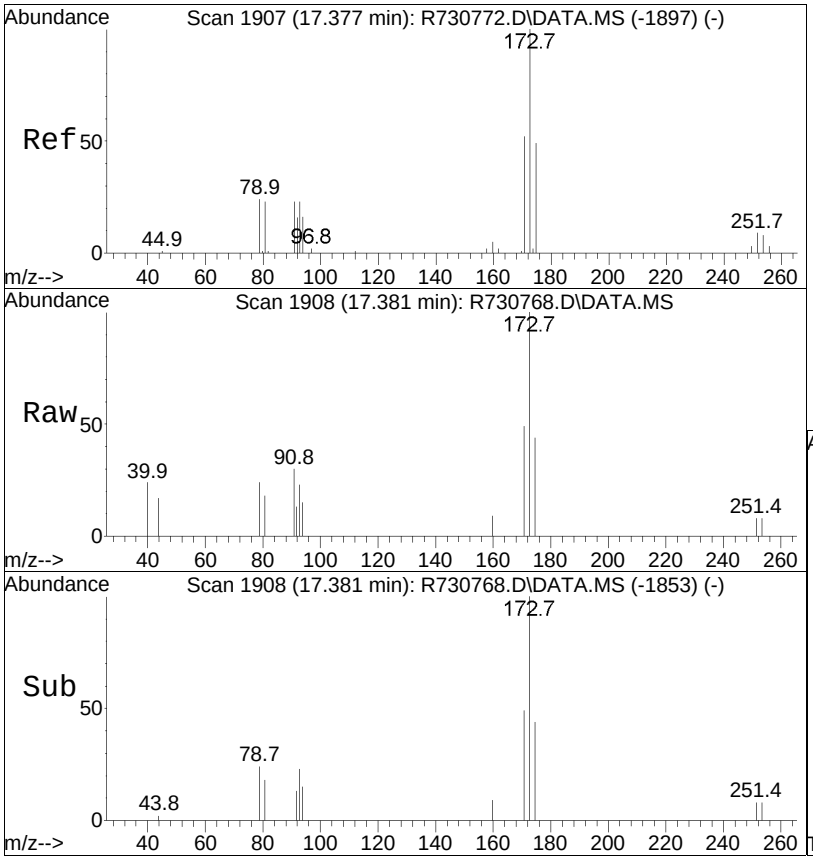


#83
m+p-xylene
Concen: 0.38 ppbV
RT: 17.311 min Scan# 1889
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 91 Resp: 15811

Ion	Ratio	Lower	Upper
91	100		
106	41.0	37.4	56.2

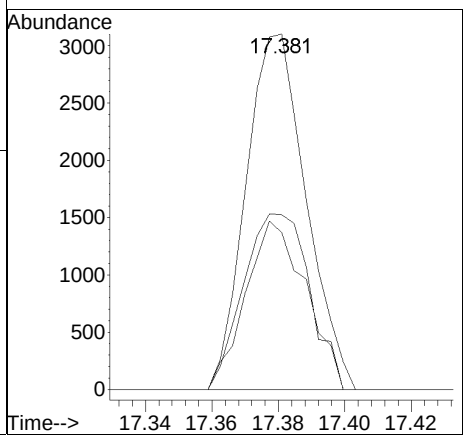


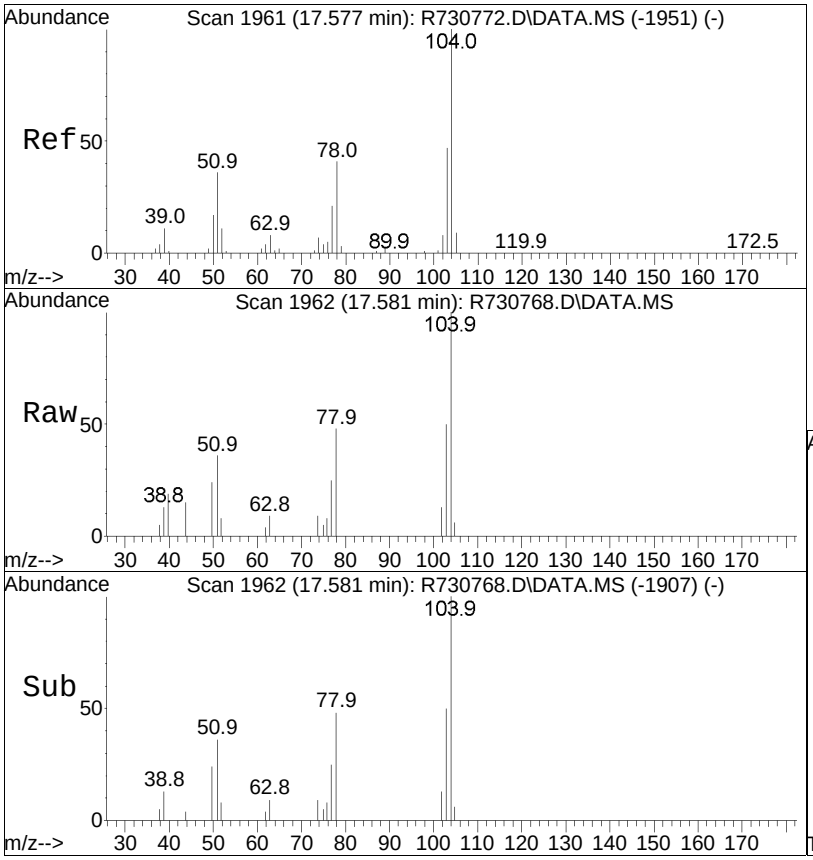


#84
bromoform
Concen: 0.16 ppbV
RT: 17.381 min Scan# 1908
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:173 Resp: 3894

Ion	Ratio	Lower	Upper
173	100		
175	44.1	39.5	59.3
171	49.1	41.3	61.9

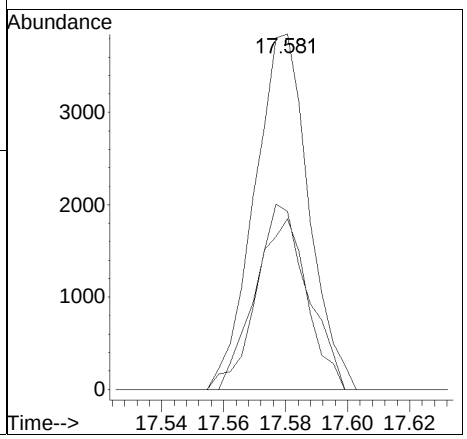


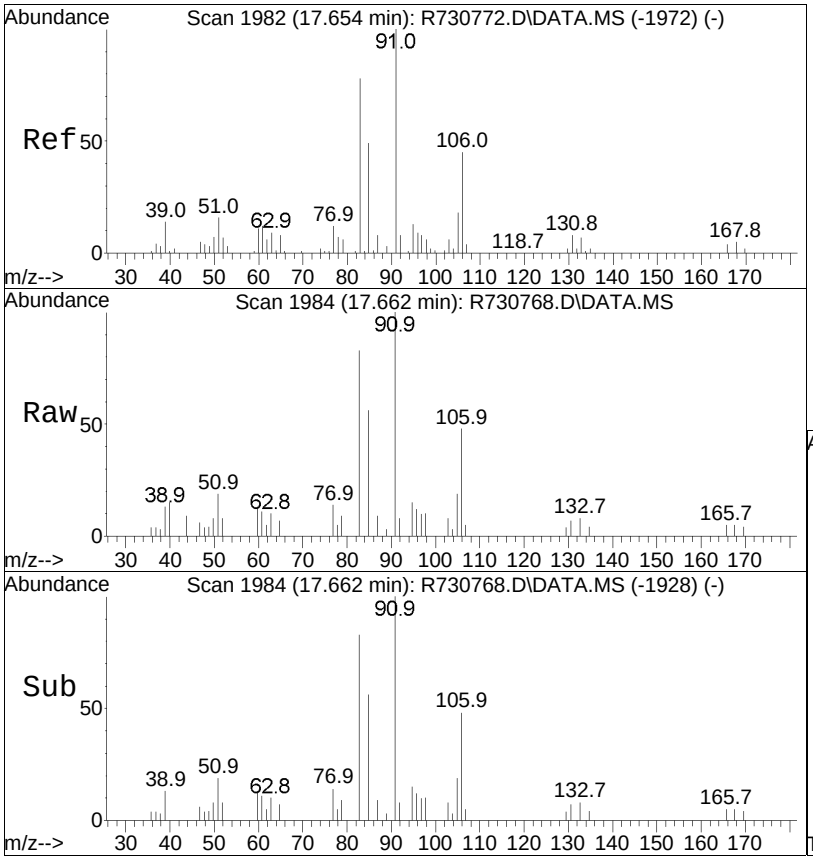


#85
styrene
Concen: 0.16 ppbV
RT: 17.581 min Scan# 1962
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:104 Resp: 4687

Ion	Ratio	Lower	Upper
104	100		
103	50.1	37.6	56.4
78	48.0	33.0	49.4

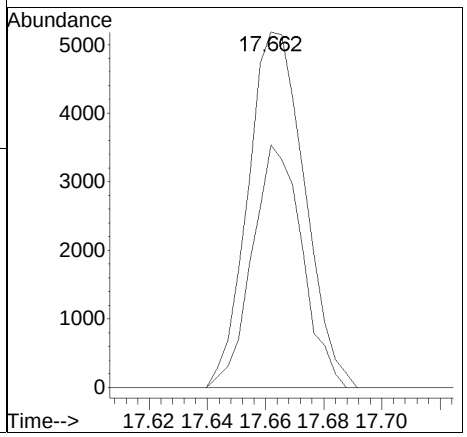


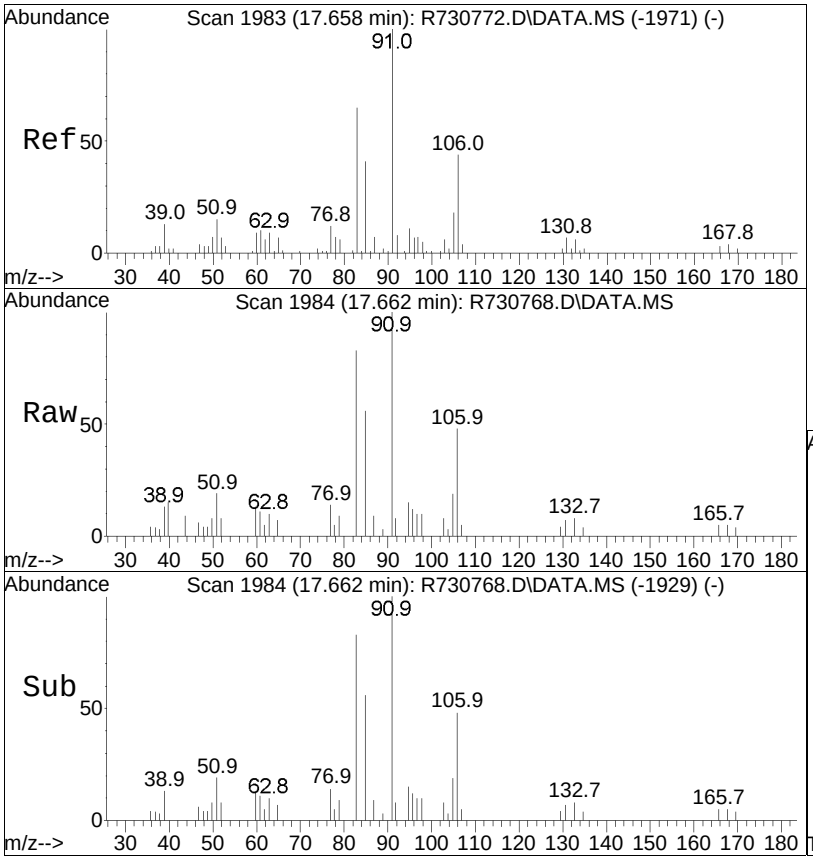


#86
1,1,2,2-tetrachloroethane
Concen: 0.23 ppbV
RT: 17.662 min Scan# 1984
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 83 Resp: 7011

Ion	Ratio	Lower	Upper
83	100		
85	68.2	50.1	75.1

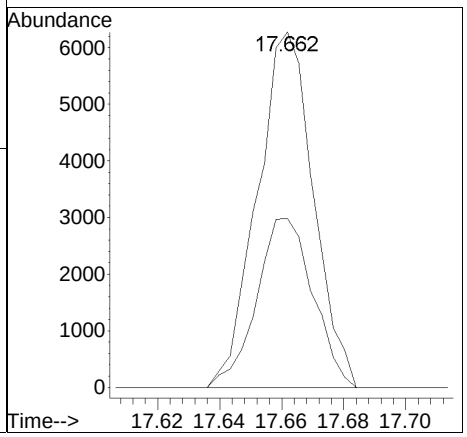


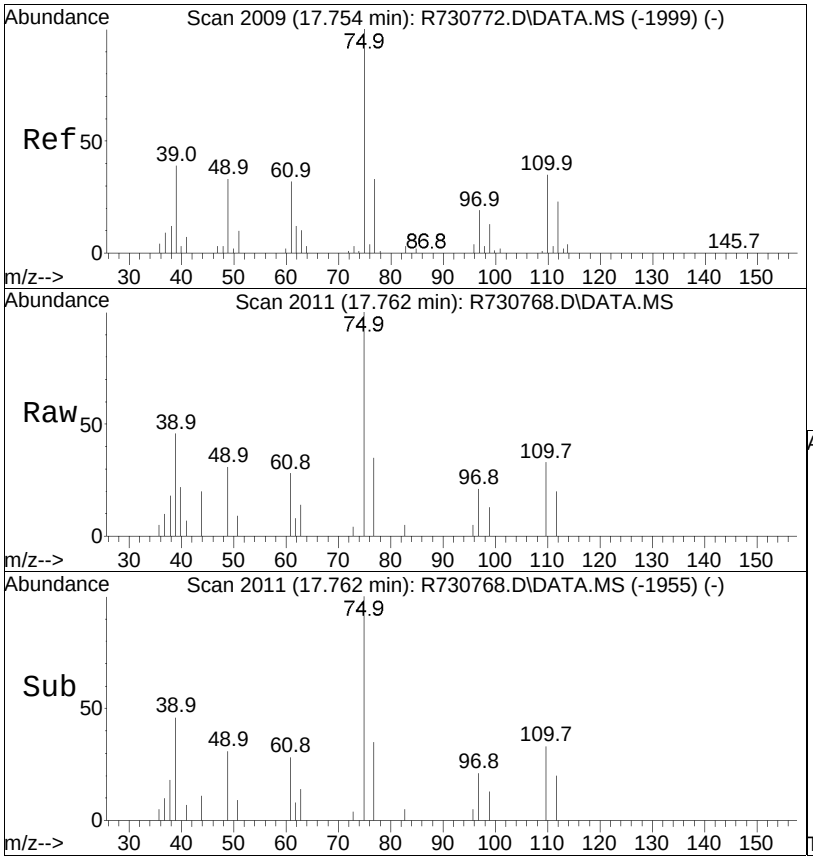


#87
o-xylene
Concen: 0.18 ppbV
RT: 17.662 min Scan# 1984
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 91 Resp: 7893

Ion	Ratio	Lower	Upper
91	100		
106	47.5	35.4	53.2

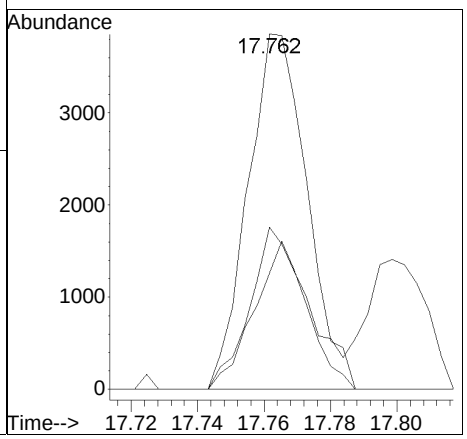


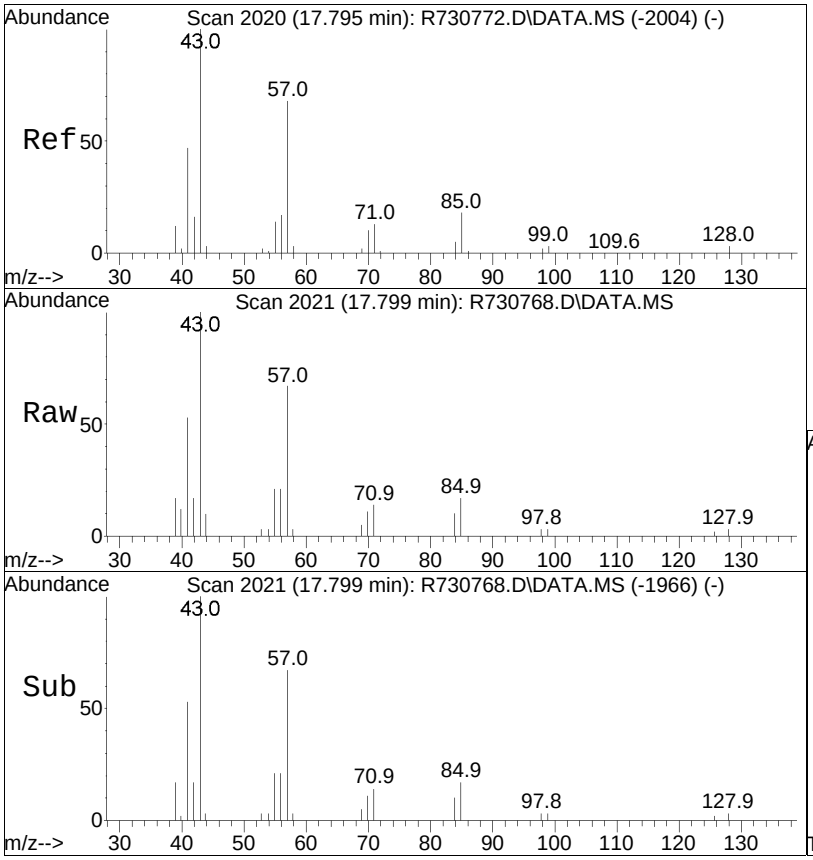


#88
1,2,3-trichloropropane
Concen: 0.21 ppbV
RT: 17.762 min Scan# 2011
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 75 Resp: 4762

Ion	Ratio	Lower	Upper
75	100		
110	32.7	28.4	42.6
39	45.6	31.0	46.4

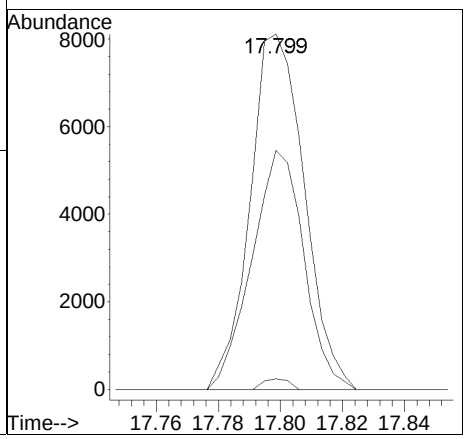


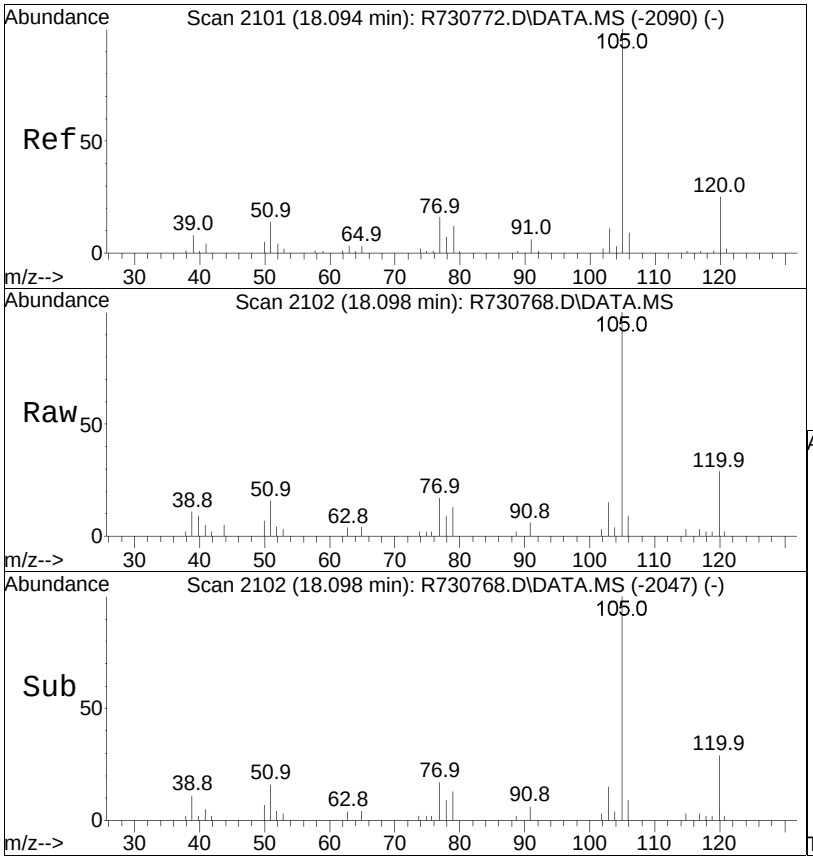


#89
nonane
Concen: 0.21 ppbV
RT: 17.799 min Scan# 2021
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 43 Resp: 9862

Ion	Ratio	Lower	Upper
43	100		
57	67.3	54.2	81.4
128	3.0	2.2	3.2

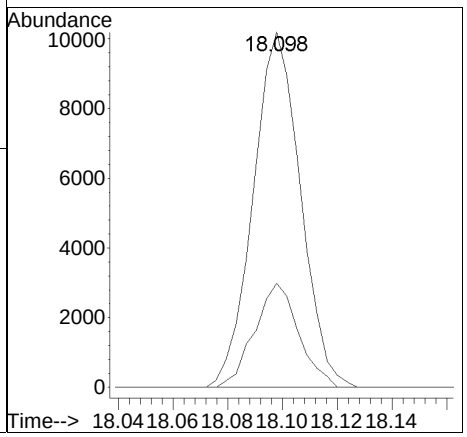


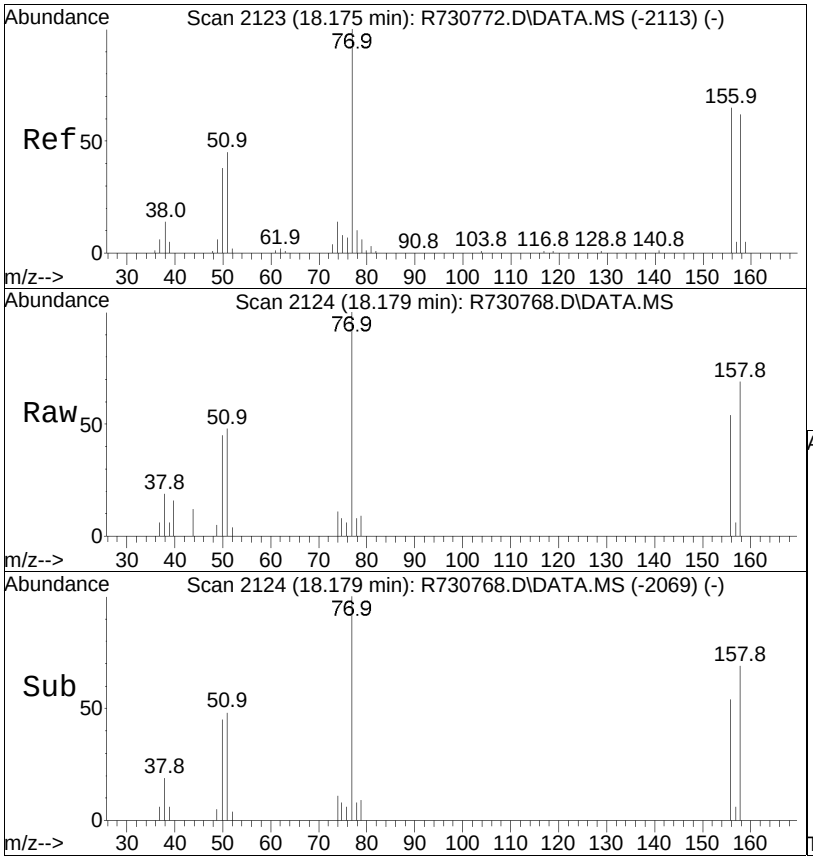


#91
isopropylbenzene
Concen: 0.20 ppbV
RT: 18.098 min Scan# 2102
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:105 Resp: 12247

Ion	Ratio	Lower	Upper
105	100		
120	31.2	19.9	29.9#

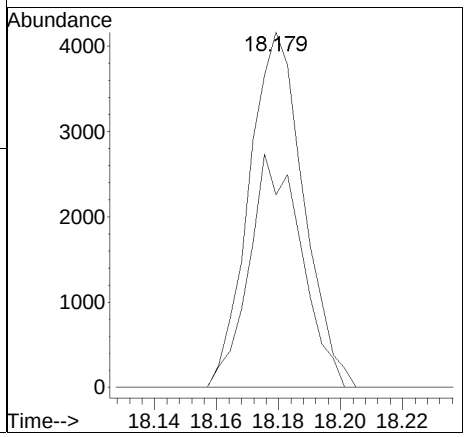


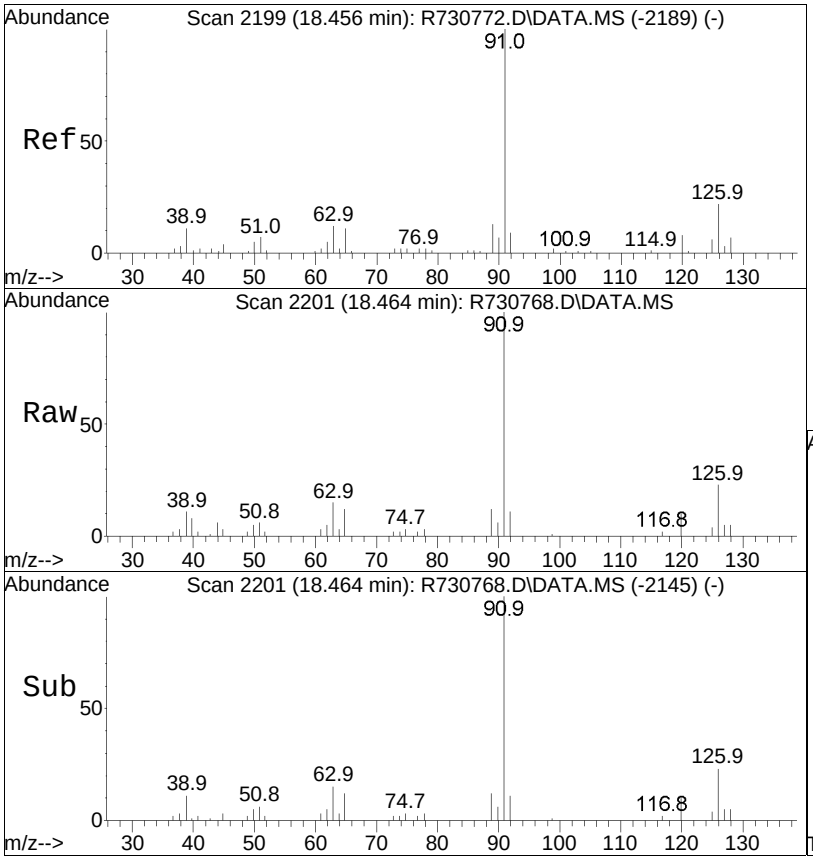


#92
bromobenzene
Concen: 0.19 ppbV
RT: 18.179 min Scan# 2124
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 77 Resp: 5087

Ion	Ratio	Lower	Upper
77	100		
156	54.2	52.2	78.2

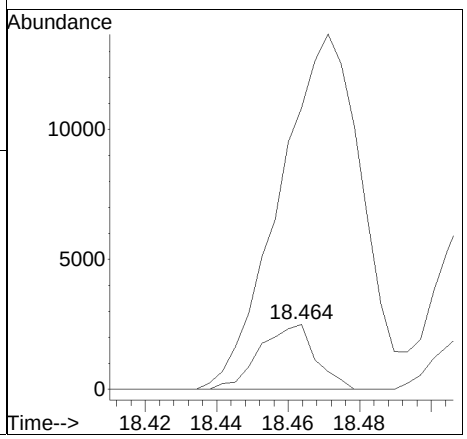


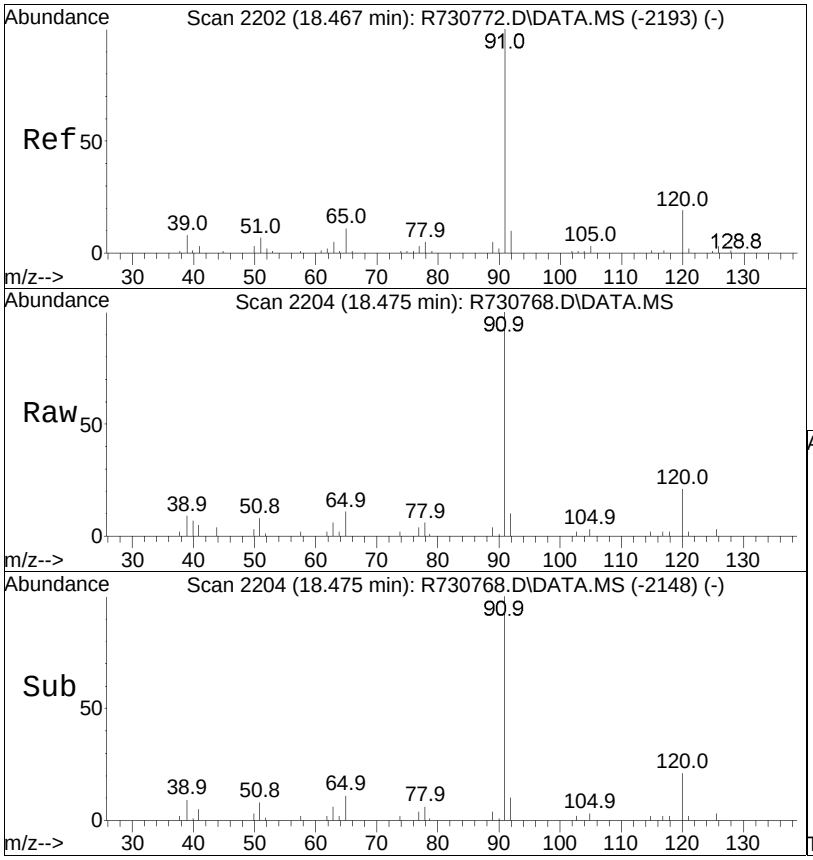


#93
2-chlorotoluene
Concen: 0.18 ppbV
RT: 18.464 min Scan# 2201
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:126 Resp: 2708

Ion	Ratio	Lower	Upper
126	100		
91	433.0	357.8	536.8

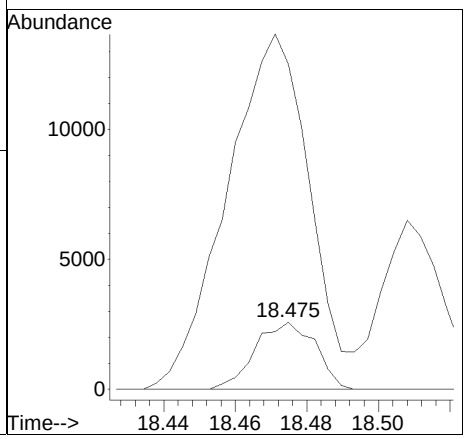


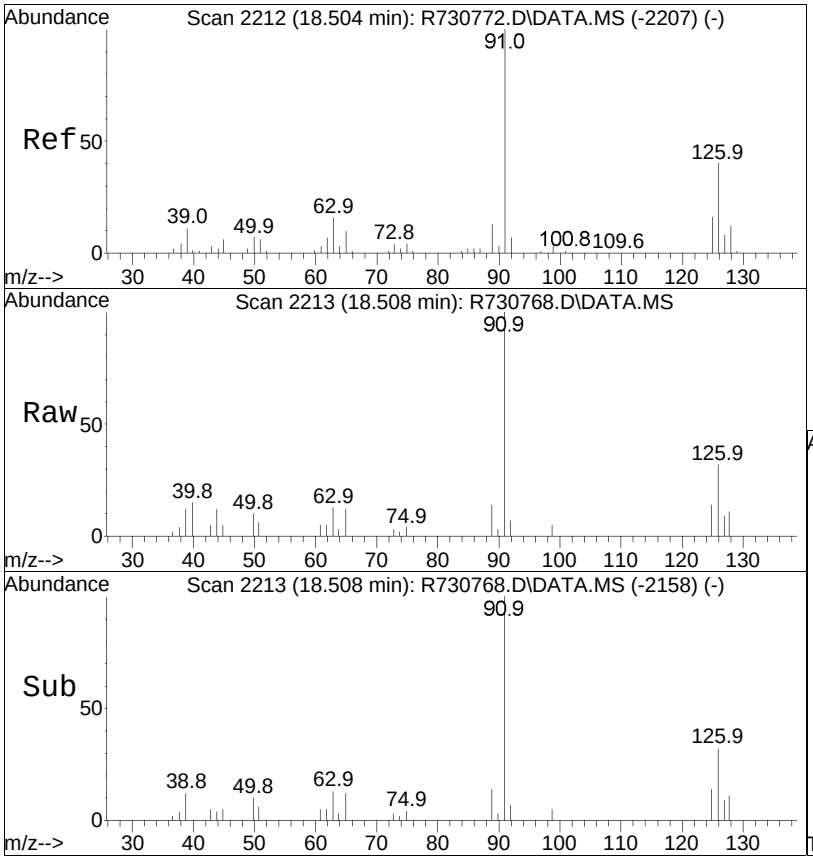


#94
n-propylbenzene
Concen: 0.19 ppbV
RT: 18.475 min Scan# 2204
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:120 Resp: 3027

Ion	Ratio	Lower	Upper
120	100		
91	484.4	427.9	641.9

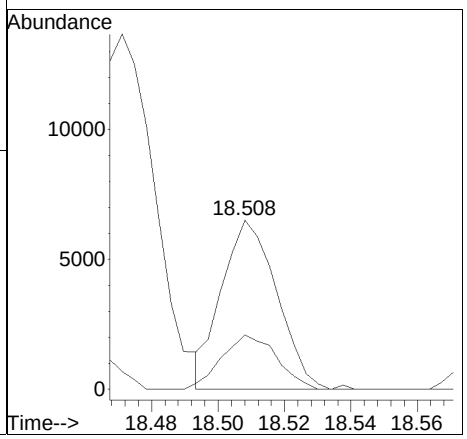


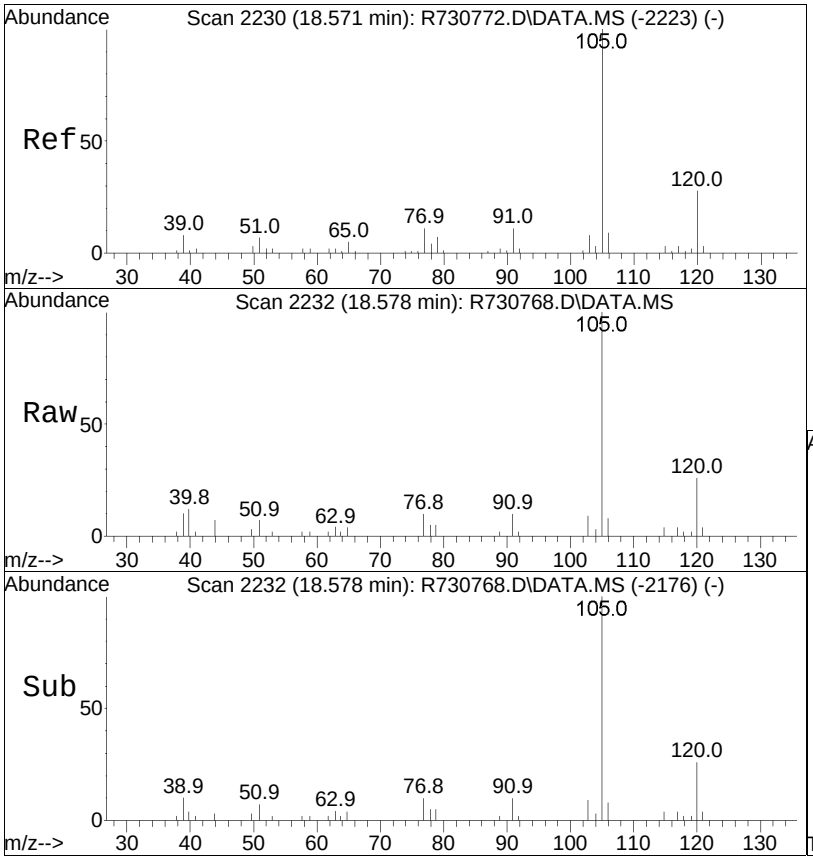


#95
4-chlorotoluene
Concen: 0.18 ppbV
RT: 18.508 min Scan# 2213
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 91 Resp: 7527

Ion	Ratio	Lower	Upper
91	100		
126	32.1	27.8	41.6

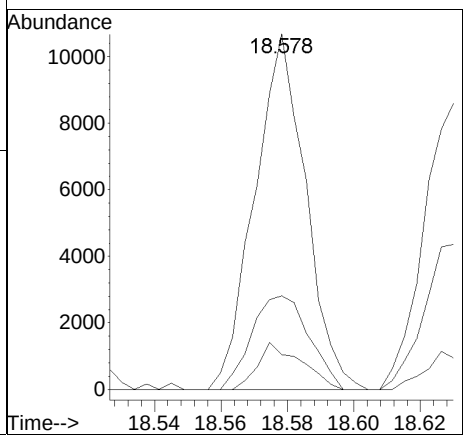


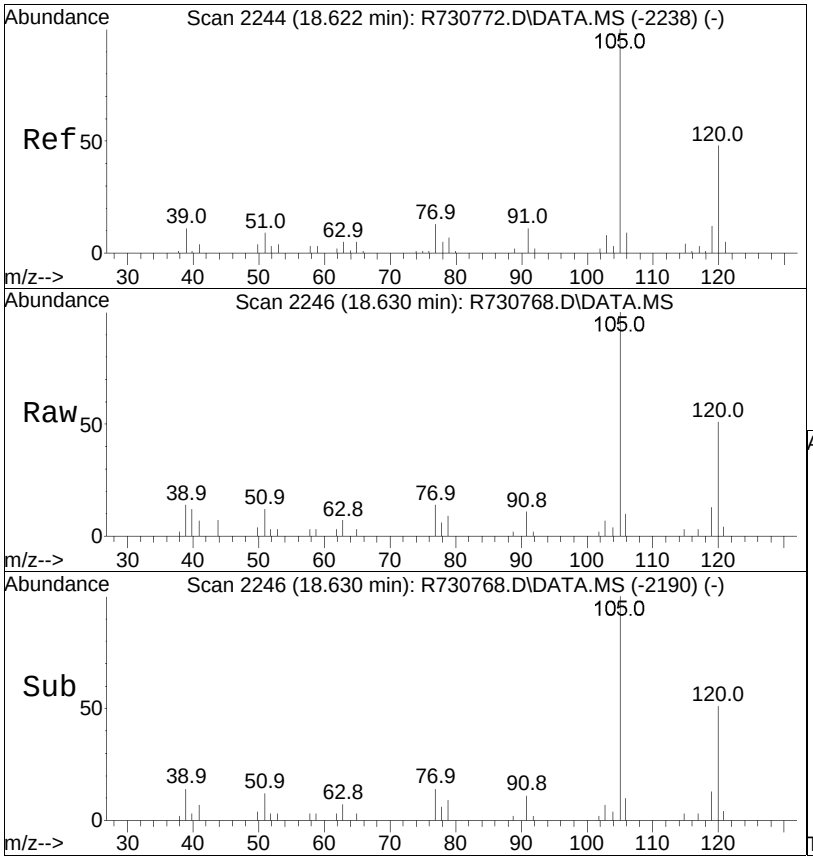


#96
4-ethyl toluene
Concen: 0.18 ppbV
RT: 18.578 min Scan# 2232
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:105 Resp: 11395

Ion	Ratio	Lower	Upper
105	100		
120	26.3	22.7	34.1
91	9.8	9.2	13.8

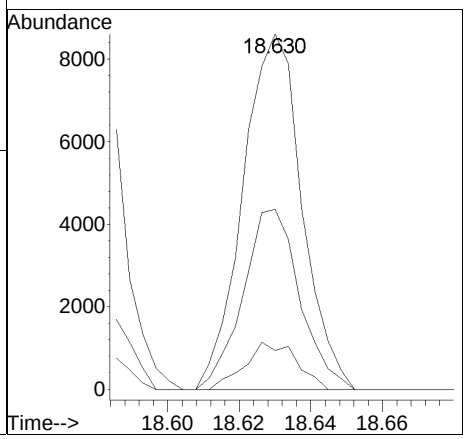


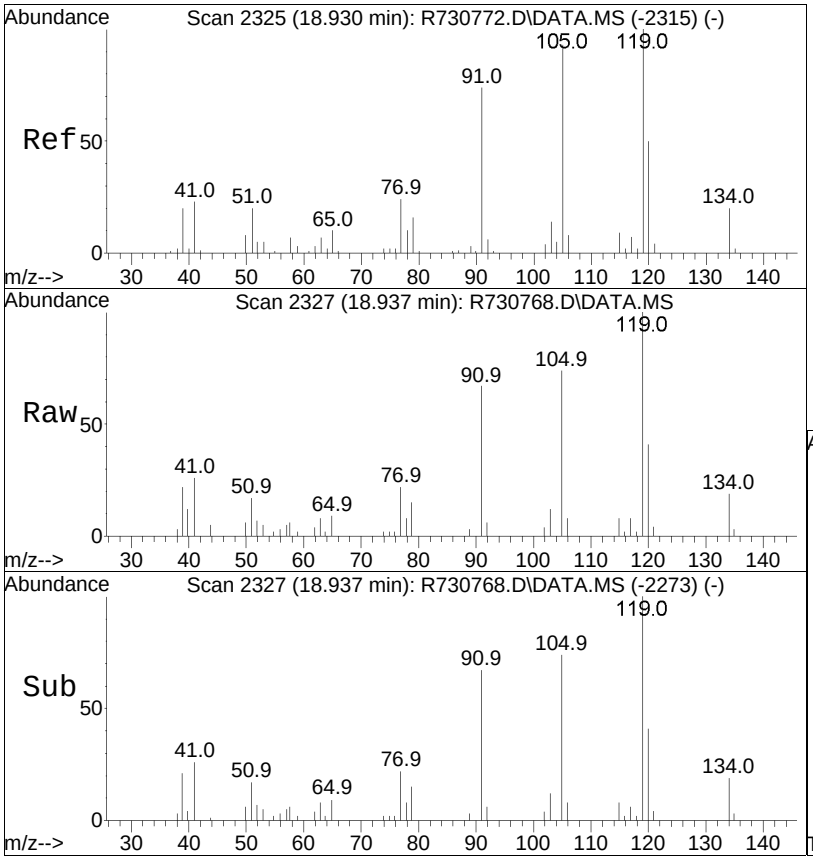


#97
1,3,5-trimethylbenzene
Concen: 0.19 ppbV
RT: 18.630 min Scan# 2246
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:105 Resp: 9858

Ion	Ratio	Lower	Upper
105	100		
120	50.7	38.2	57.2
91	11.0	8.8	13.2

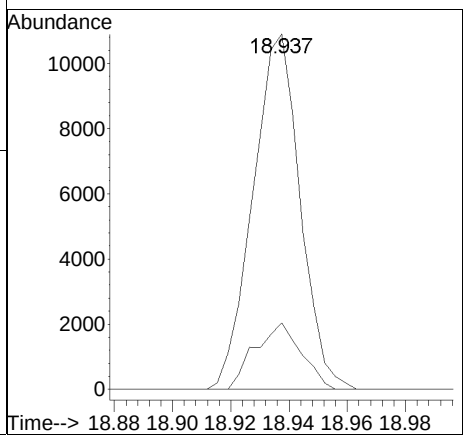


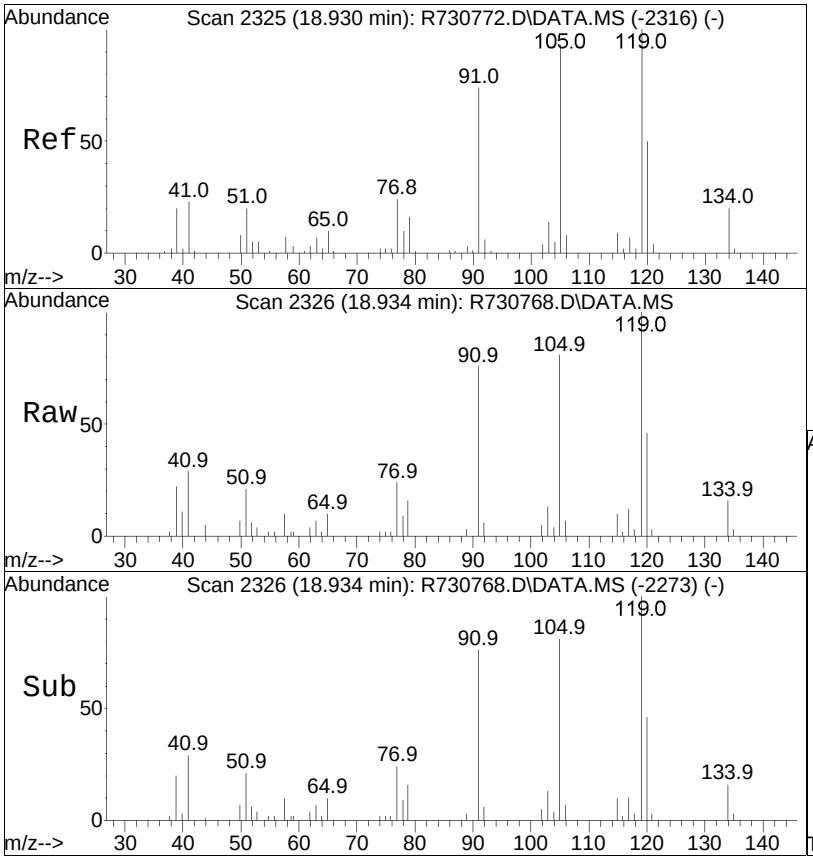


#98
tert-butylbenzene
Concen: 0.20 ppbV
RT: 18.937 min Scan# 2327
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:119 Resp: 12274

Ion	Ratio	Lower	Upper
119	100		
134	18.7	15.7	23.5

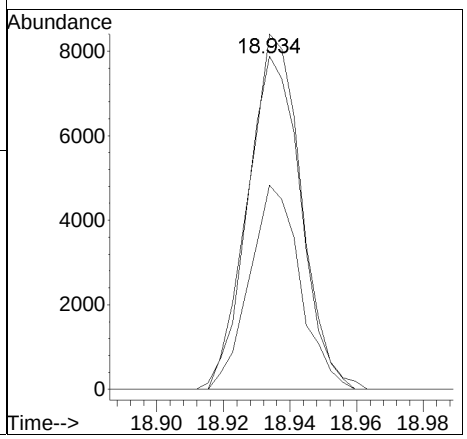


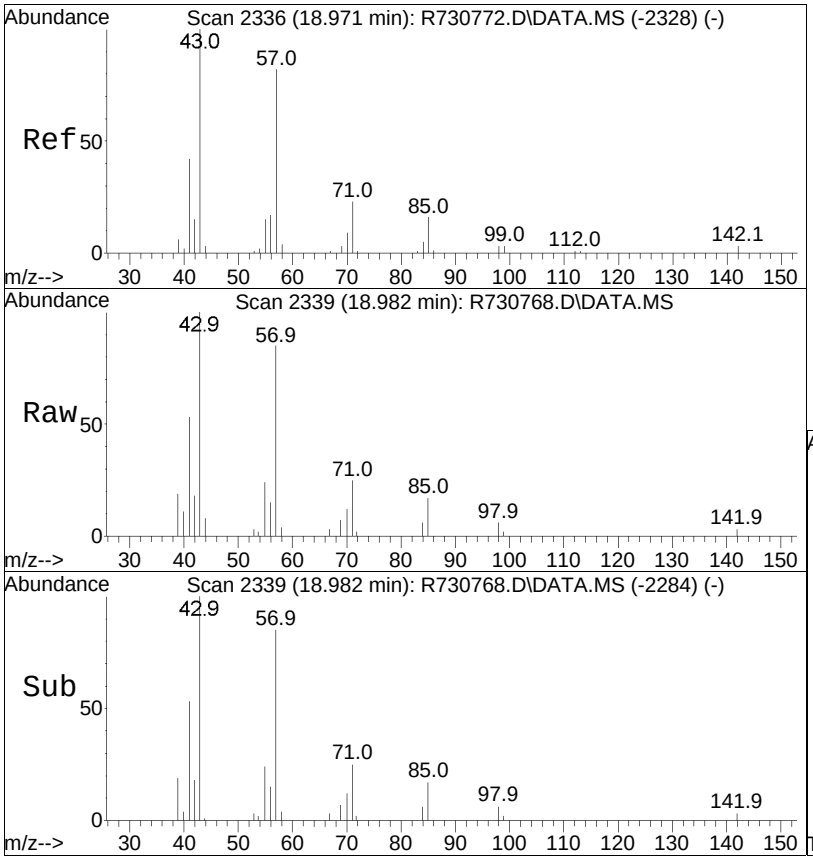


#99
1,2,4-trimethylbenzene
Concen: 0.17 ppbV
RT: 18.934 min Scan# 2326
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:105 Resp: 9267

Ion	Ratio	Lower	Upper
105	100		
120	57.5	42.5	63.7
91	93.8	63.4	95.2

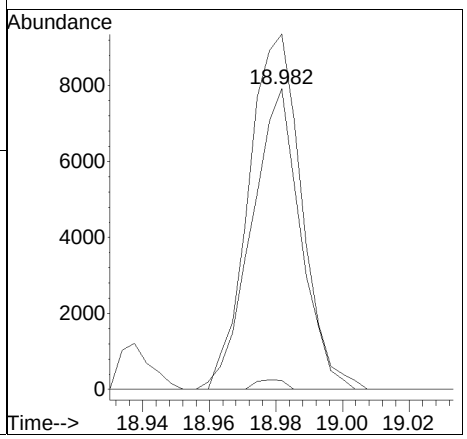


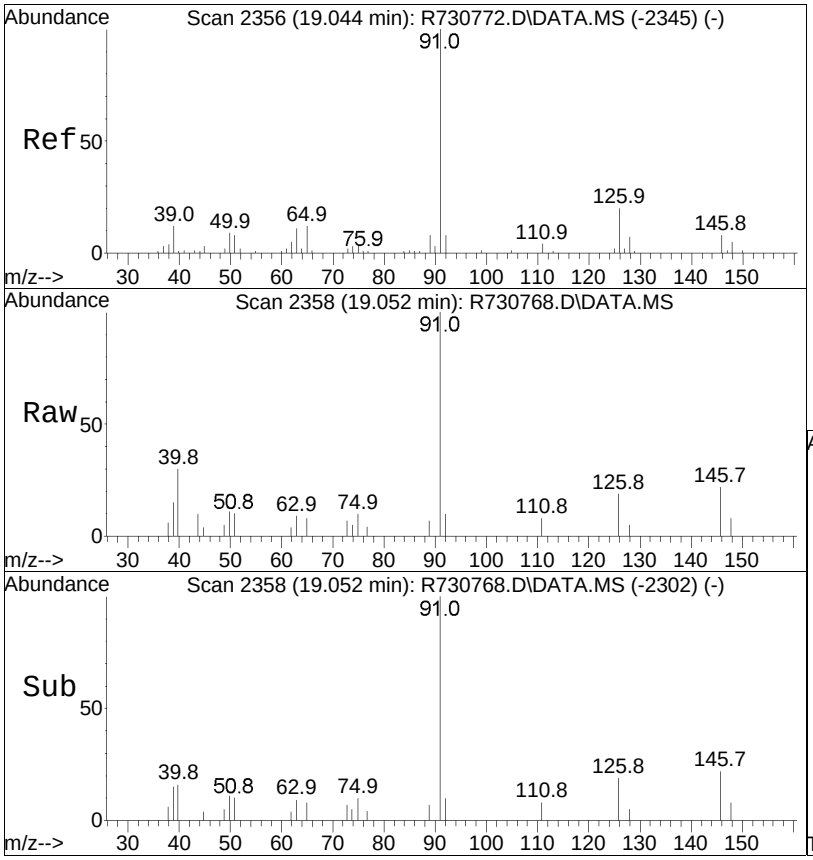


#100
decane
Concen: 0.19 ppbV
RT: 18.982 min Scan# 2339
Delta R.T. 0.011 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 57 Resp: 8119

Ion	Ratio	Lower	Upper
57	100		
43	118.2	97.2	145.8
142	3.0	2.4	3.6

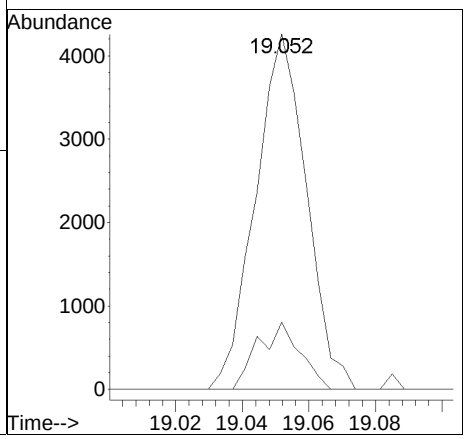


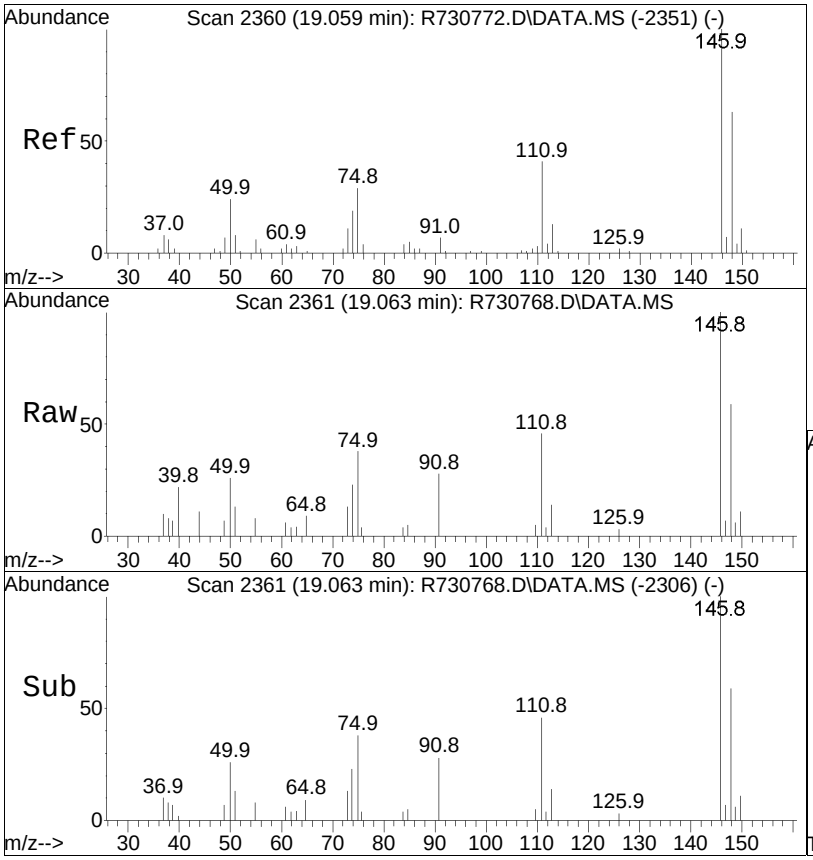


#101
Benzyl Chloride
Concen: 0.14 ppbV
RT: 19.052 min Scan# 2358
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 91 Resp: 4537

Ion	Ratio	Lower	Upper
91	100		
126	18.9	15.6	23.4

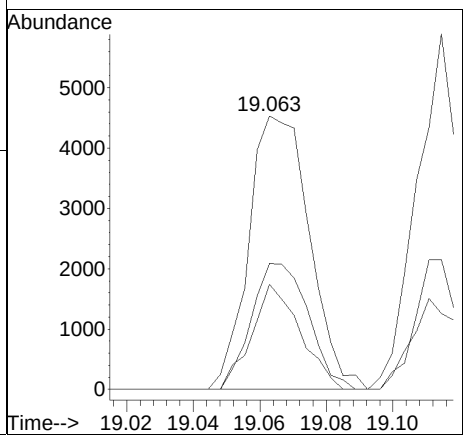


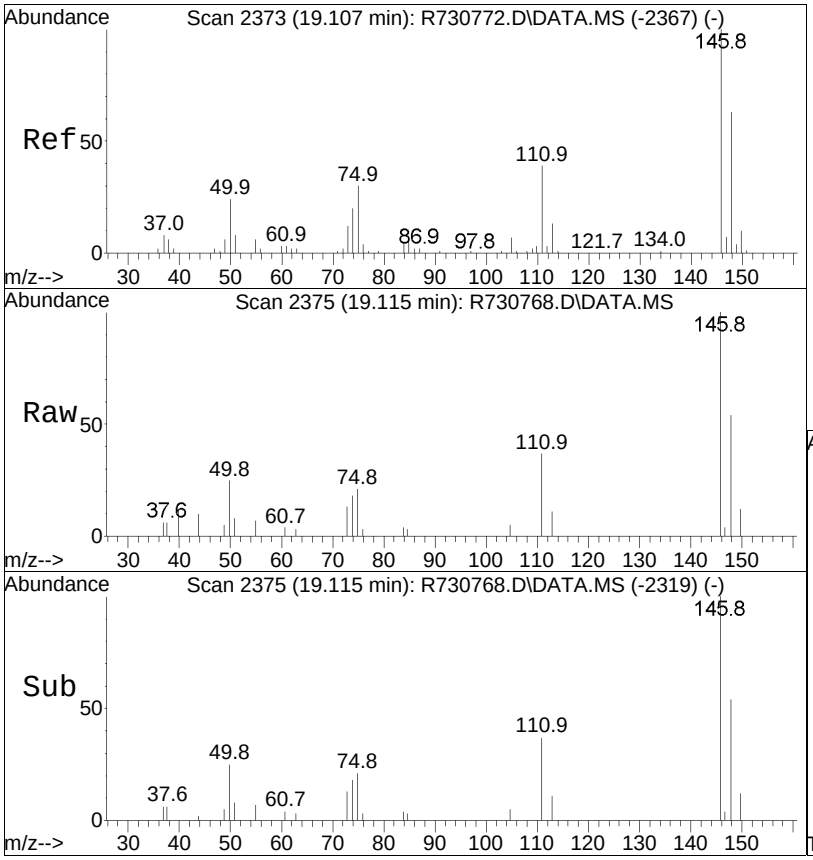


#102
1,3-dichlorobenzene
Concen: 0.19 ppbV
RT: 19.063 min Scan# 2361
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:146 Resp: 5741

Ion	Ratio	Lower	Upper
146	100		
111	46.0	32.6	48.8
75	38.4	23.0	34.6#

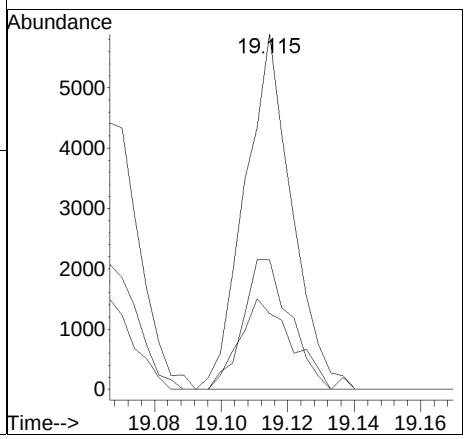


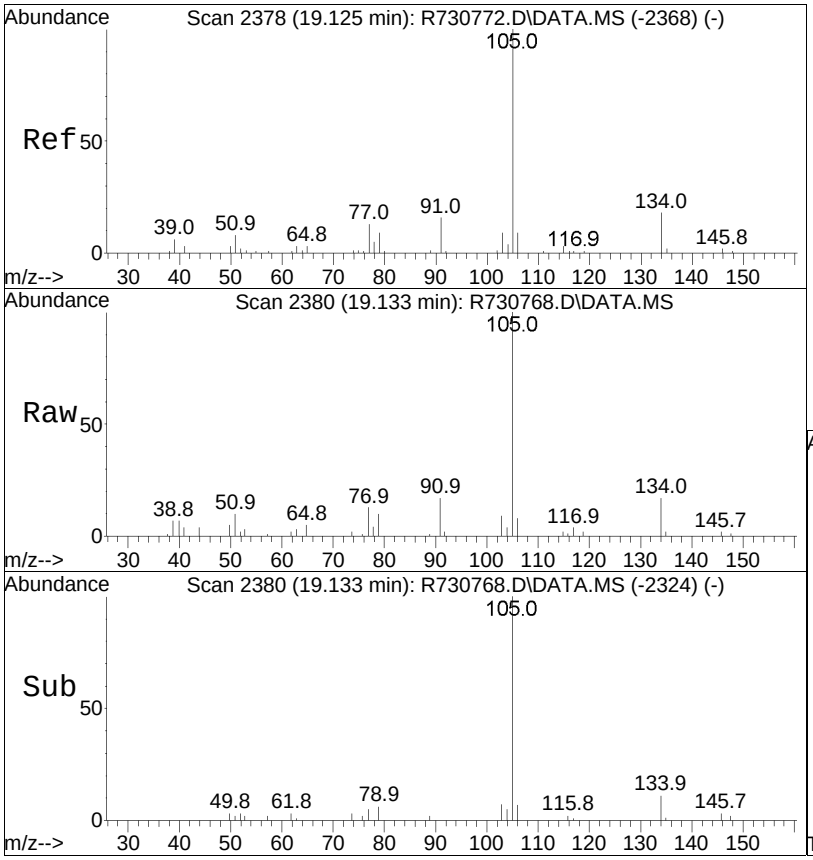


#103
1,4-dichlorobenzene
Concen: 0.19 ppbV
RT: 19.115 min Scan# 2375
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:146 Resp: 5813

Ion	Ratio	Lower	Upper
146	100		
111	36.5	30.9	46.3
75	21.4	24.0	36.0#

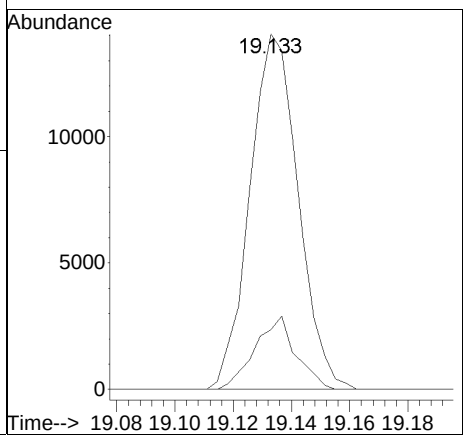


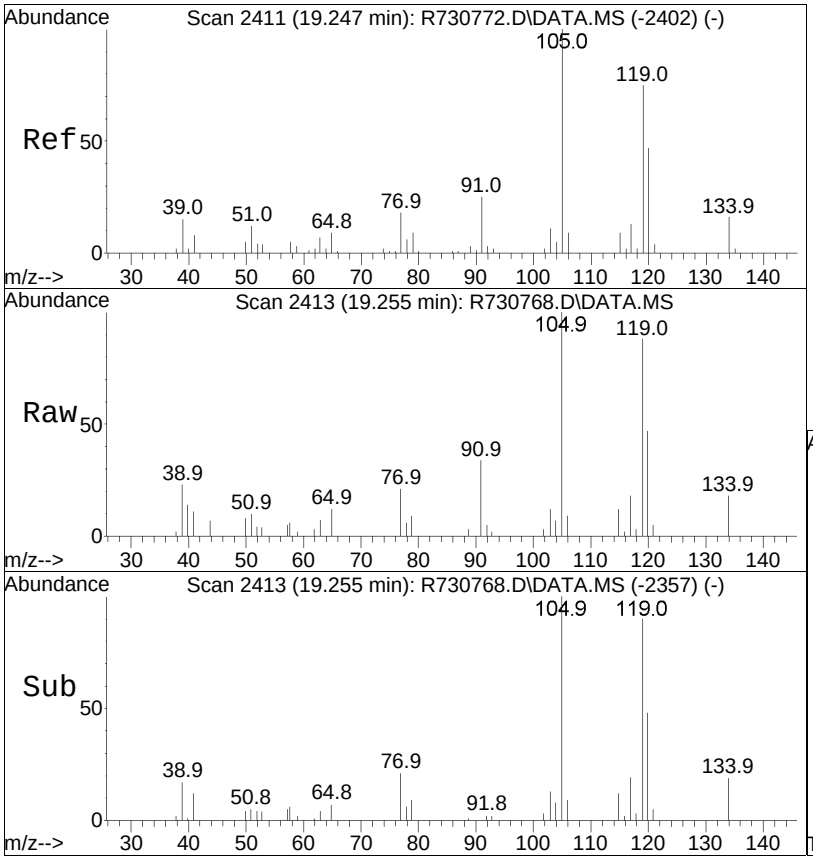


#104
sec-butylbenzene
Concen: 0.20 ppbV
RT: 19.133 min Scan# 2380
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:105 Resp: 16210

Ion	Ratio	Lower	Upper
105	100		
134	16.8	14.2	21.4

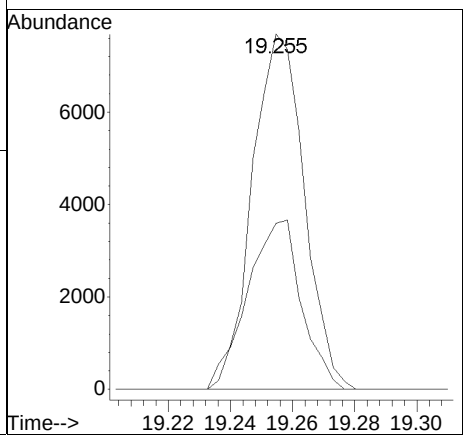


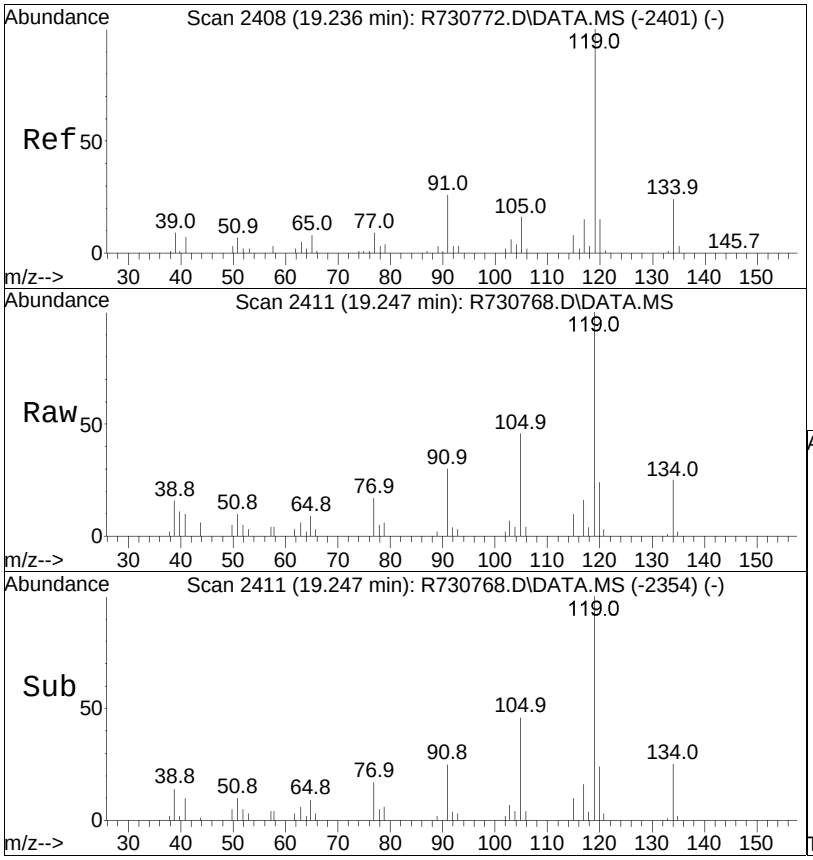


#105
1,2,3-trimethylbenzene
Concen: 0.19 ppbV
RT: 19.255 min Scan# 2413
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:105 Resp: 8912

Ion	Ratio	Lower	Upper
105	100		
120	46.8	37.5	56.3

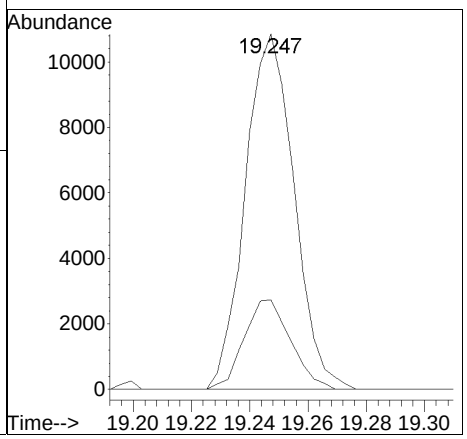


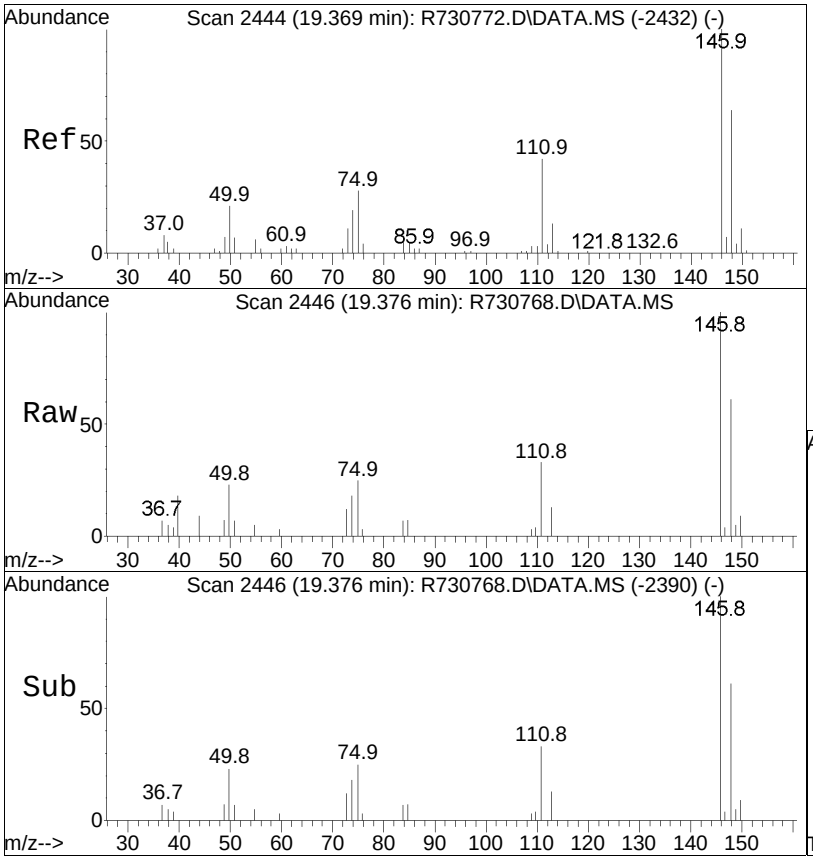


#106
p-isopropyltoluene
Concen: 0.17 ppbV
RT: 19.247 min Scan# 2411
Delta R.T. 0.011 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:119 Resp: 12637

Ion	Ratio	Lower	Upper
119	100		
134	25.2	19.4	29.0

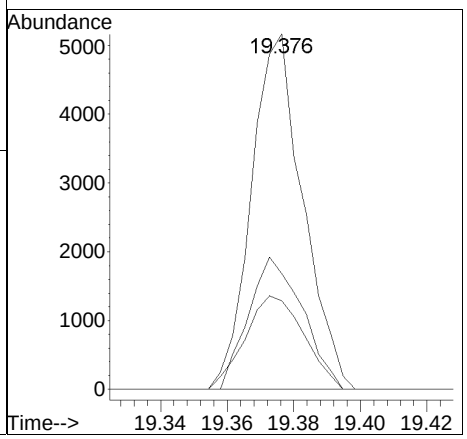


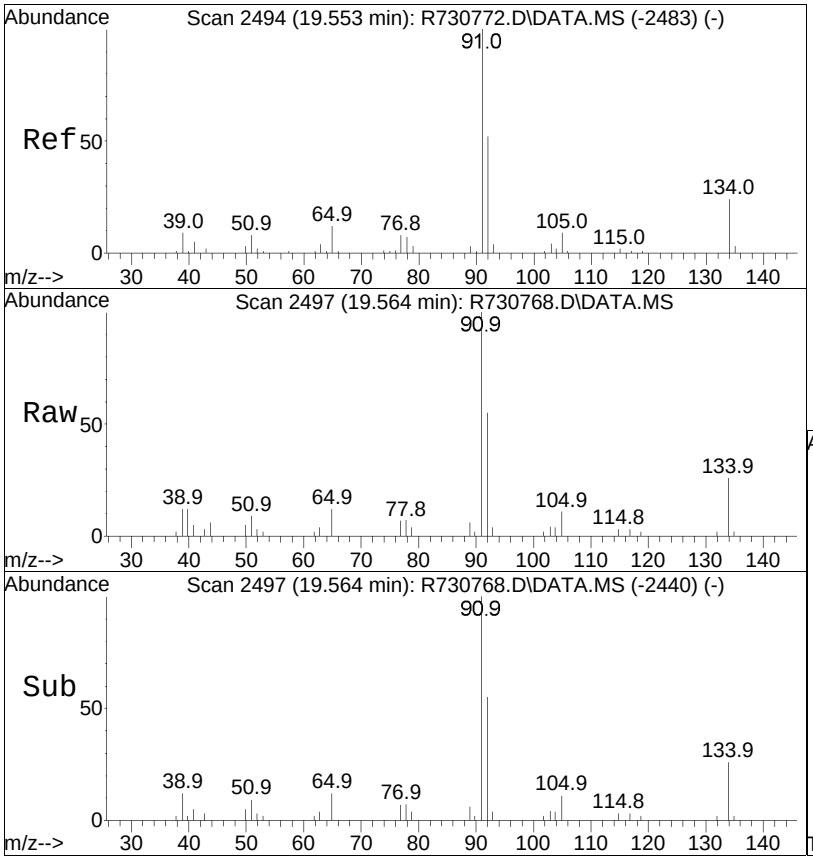


#107
1,2-dichlorobenzene
Concen: 0.18 ppbV
RT: 19.376 min Scan# 2446
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:146 Resp: 5561

Ion	Ratio	Lower	Upper
146	100		
111	32.6	33.4	50.2#
75	25.0	22.4	33.6

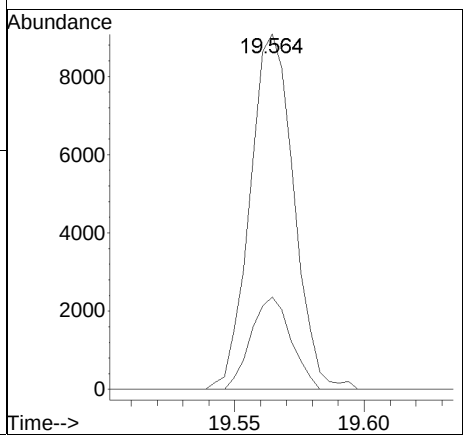


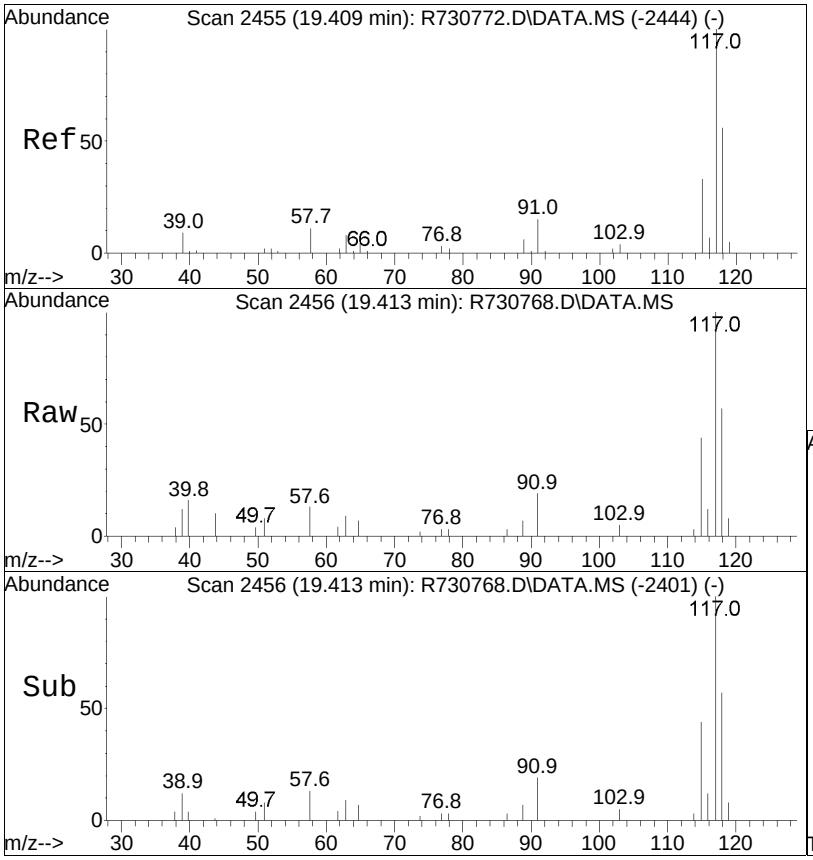


#108
n-butylbenzene
Concen: 0.17 ppbV
RT: 19.564 min Scan# 2497
Delta R.T. 0.011 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 91 Resp: 10681

Ion	Ratio	Lower	Upper
91	100		
134	26.0	19.4	29.2

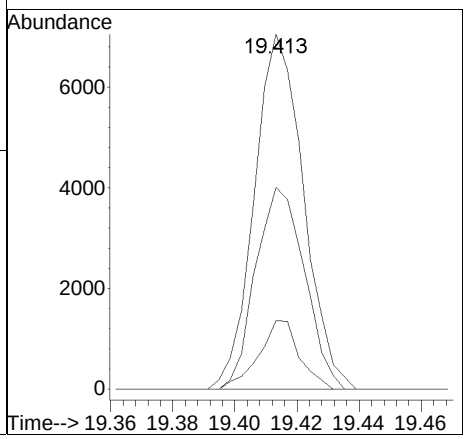


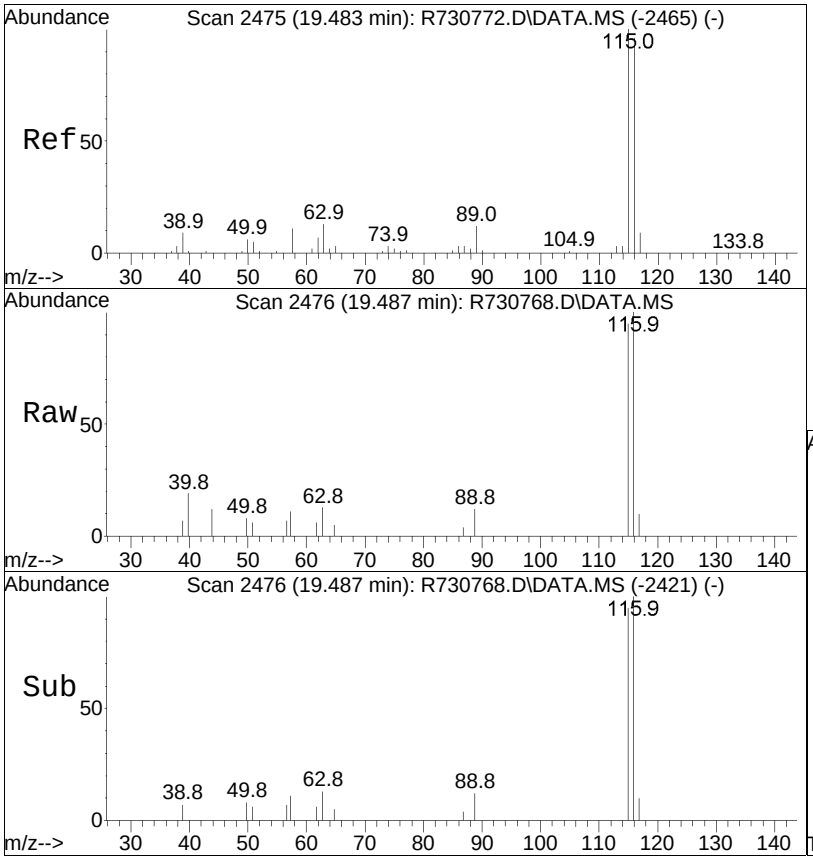


#109
indan
Concen: 0.17 ppbV
RT: 19.413 min Scan# 2456
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:117 Resp: 7764

Ion	Ratio	Lower	Upper
117	100		
118	56.8	44.6	67.0
91	19.4	12.3	18.5#

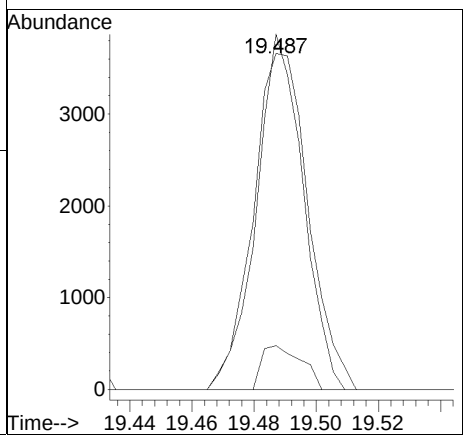


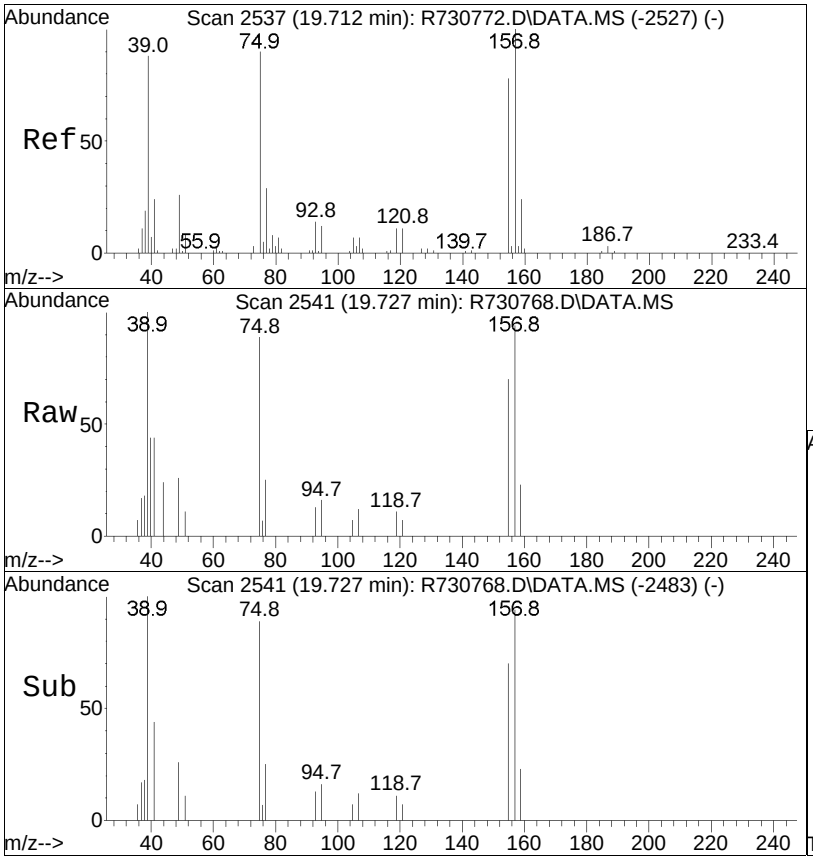


#110
indene
Concen: 0.18 ppbV
RT: 19.487 min Scan# 2476
Delta R.T. 0.004 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:115 Resp: 4536

Ion	Ratio	Lower	Upper
115	100		
116	105.8	76.4	114.6
89	13.0	9.4	14.2

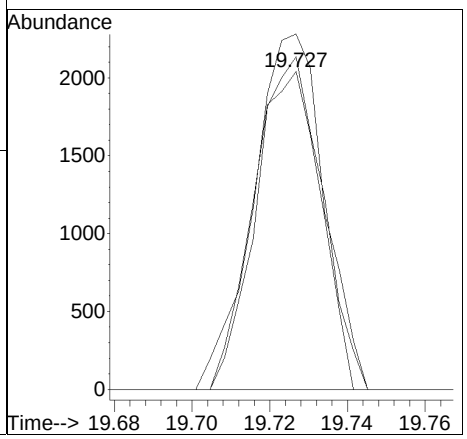


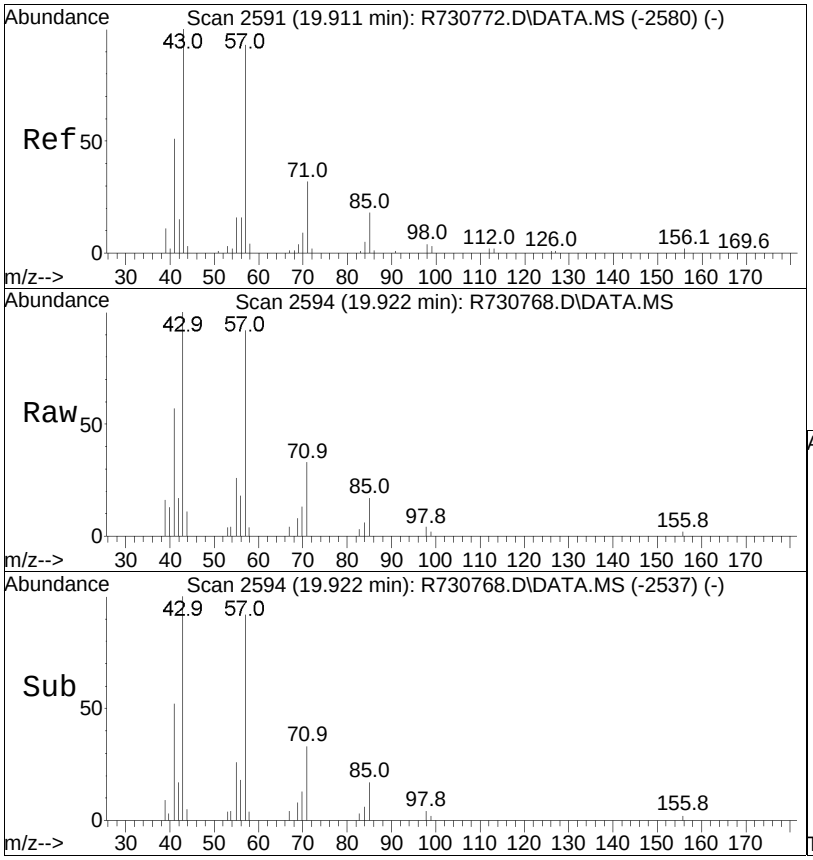


#111
1,2-dibromo-3-chloropropane
Concen: 0.17 ppbV
RT: 19.727 min Scan# 2541
Delta R.T. 0.015 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 75 Resp: 2469

Ion	Ratio	Lower	Upper
75	100		
157	104.6	89.0	133.4
39	111.8	78.8	118.2

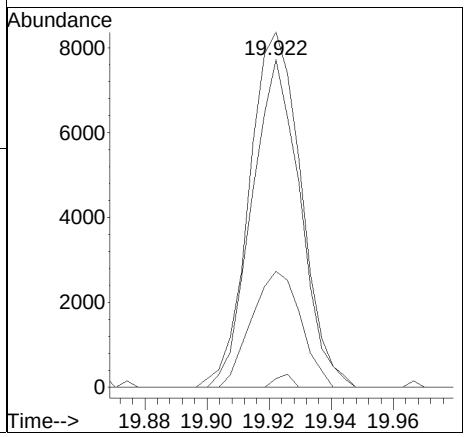


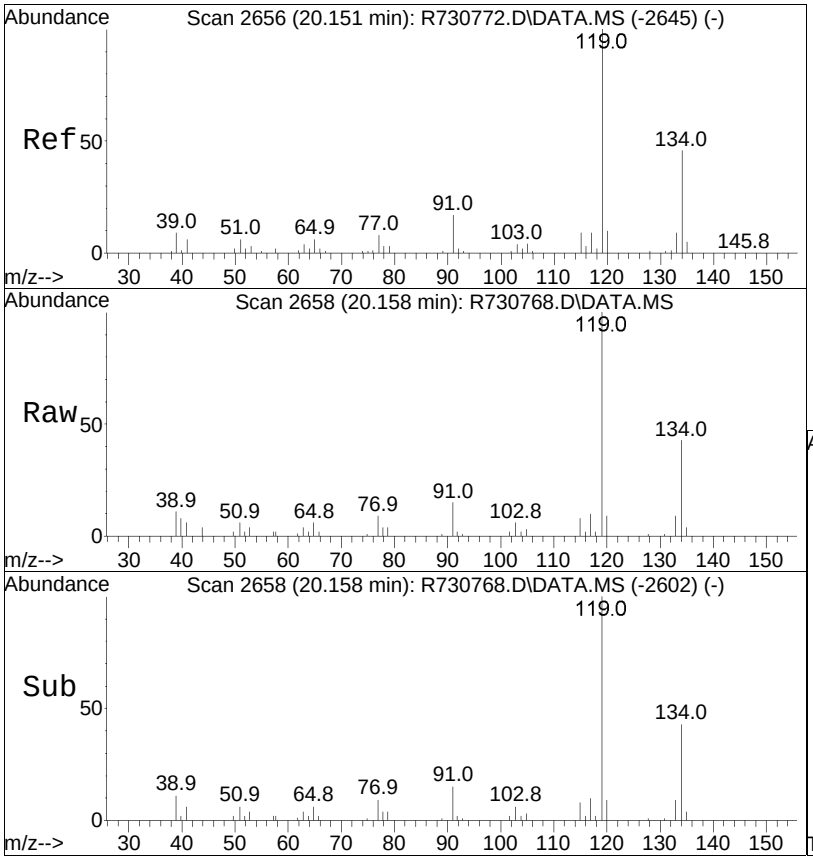


#112
undecane
Concen: 0.16 ppbV
RT: 19.922 min Scan# 2594
Delta R.T. 0.011 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 57 Resp: 8355

Ion	Ratio	Lower	Upper
57	100		
43	108.4	86.0	129.0
71	35.4	27.5	41.3
156	2.7	2.0	3.0

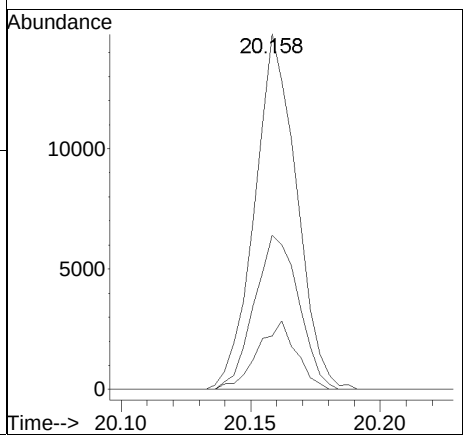


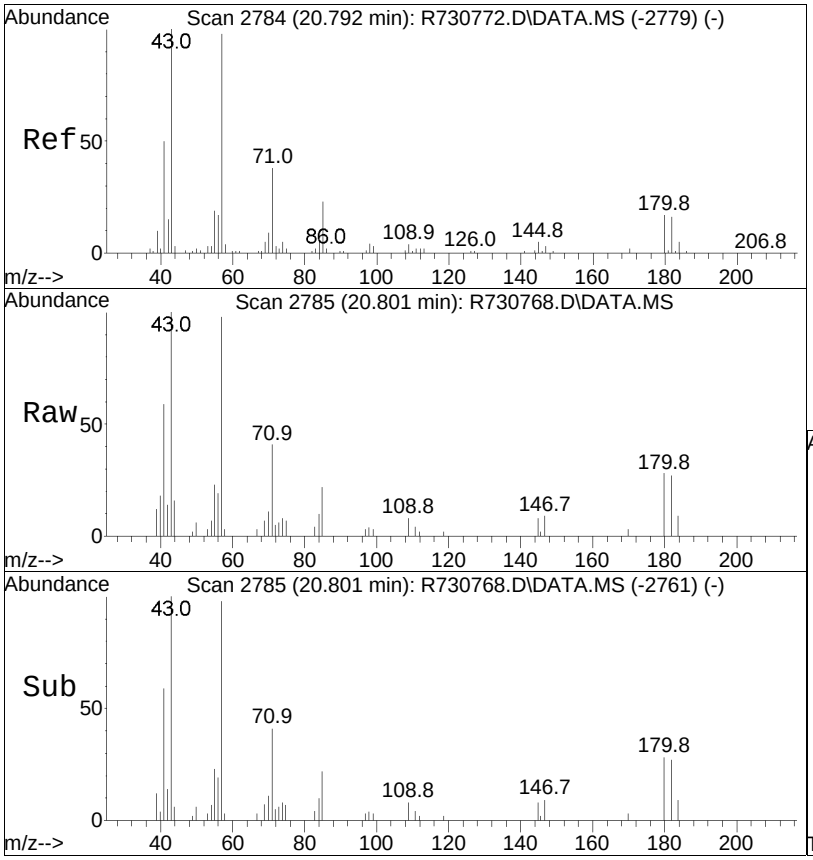


#113
1,2,4,5-tetramethylbenzene
Concen: 0.15 ppbV
RT: 20.158 min Scan# 2658
Delta R.T. 0.008 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:119 Resp: 16635

Ion	Ratio	Lower	Upper
119	100		
134	43.4	37.0	55.4
91	15.1	13.4	20.2

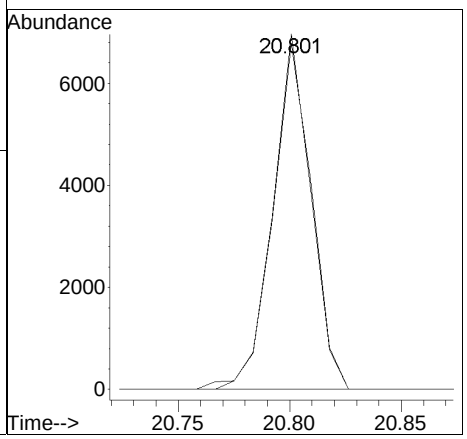


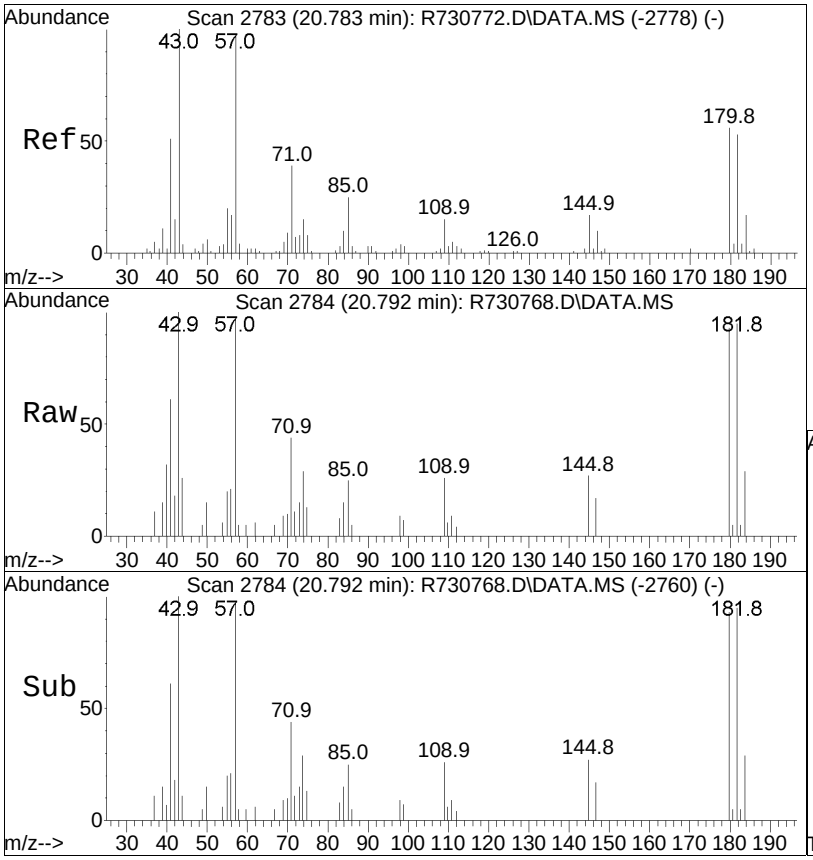


#114
dodecane
Concen: 0.14 ppbV
RT: 20.801 min Scan# 2785
Delta R.T. 0.009 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion: 57 Resp: 8198

Ion	Ratio	Lower	Upper
57	100		
43	102.5	82.0	123.0

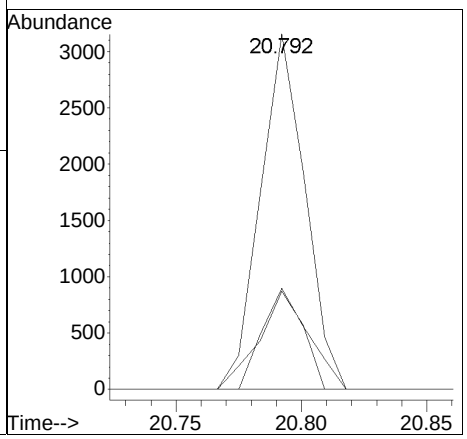


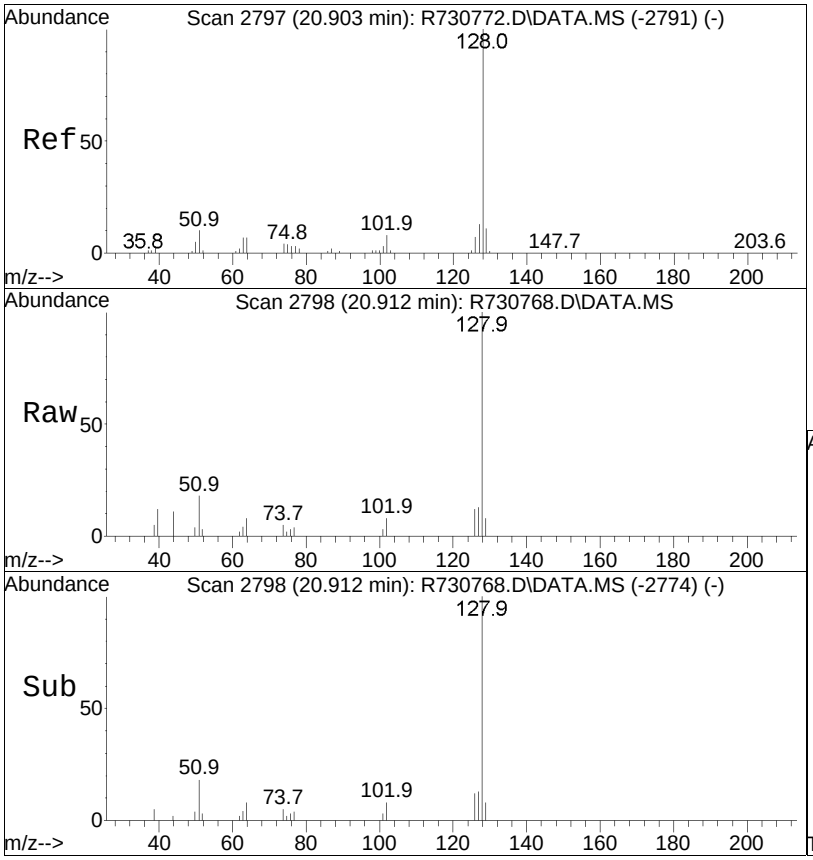


#115
1,2,4-trichlorobenzene
Concen: 0.15 ppbV
RT: 20.792 min Scan# 2784
Delta R.T. 0.009 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:180 Resp: 3905

Ion	Ratio	Lower	Upper
180	100		
145	28.4	24.1	36.1
109	27.6	21.0	31.4

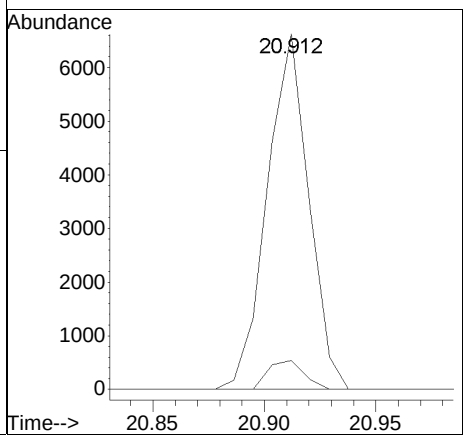


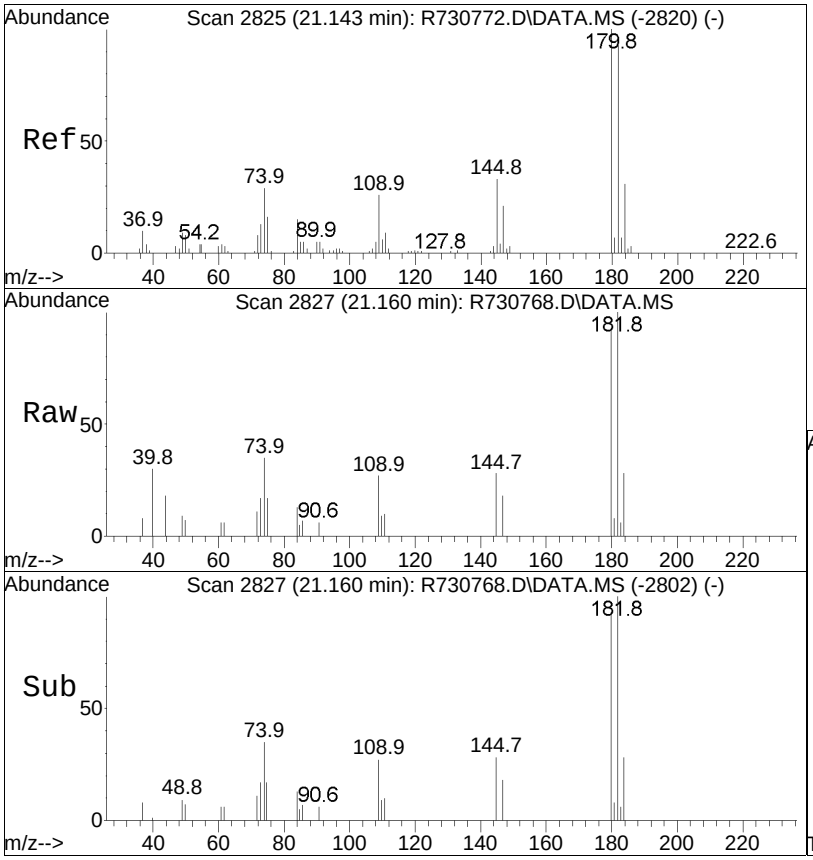


#116
naphthalene
Concen: 0.14 ppbV
RT: 20.912 min Scan# 2798
Delta R.T. 0.009 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:128 Resp: 8576

Ion	Ratio	Lower	Upper
128	100		
102	8.2	6.7	10.1

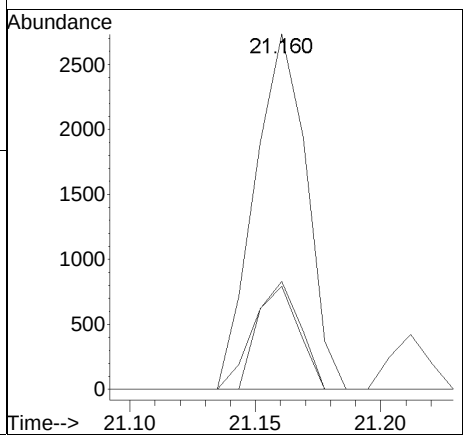


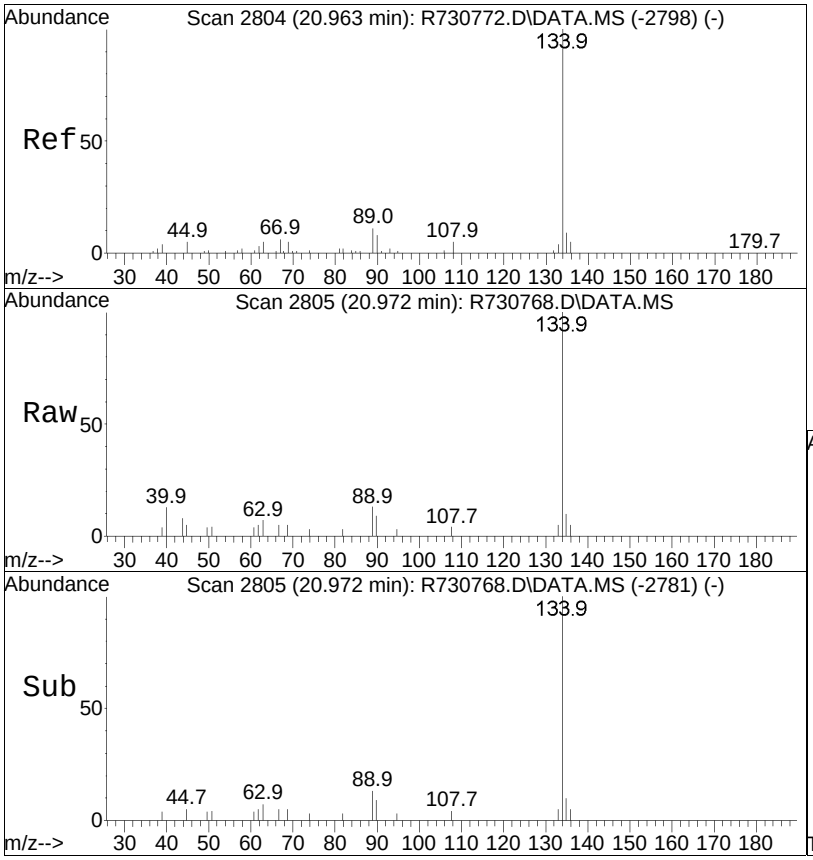


#117
1,2,3-trichlorobenzene
Concen: 0.16 ppbV
RT: 21.160 min Scan# 2827
Delta R.T. 0.017 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:180 Resp: 3935

Ion	Ratio	Lower	Upper
180	100		
145	30.4	26.5	39.7
109	29.1	20.8	31.2

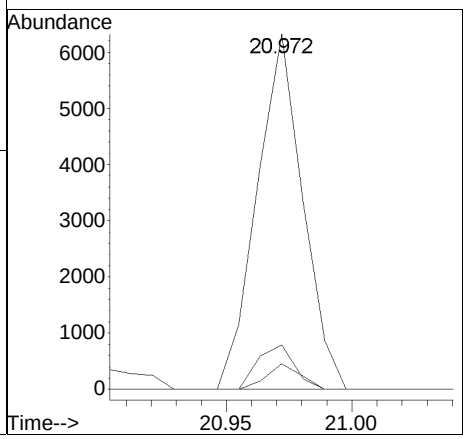


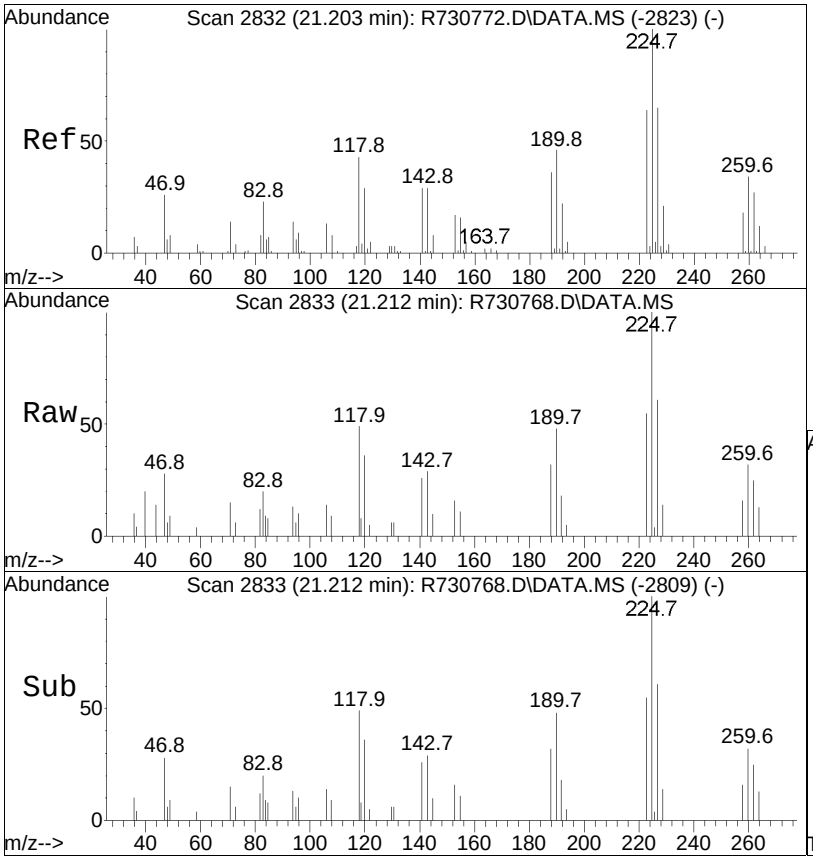


#118
benzothiophene
Concen: 0.15 ppbV
RT: 20.972 min Scan# 2805
Delta R.T. 0.009 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:134 Resp: 8048

Ion	Ratio	Lower	Upper
134	100		
89	12.5	8.7	13.1
63	7.2	5.8	8.8

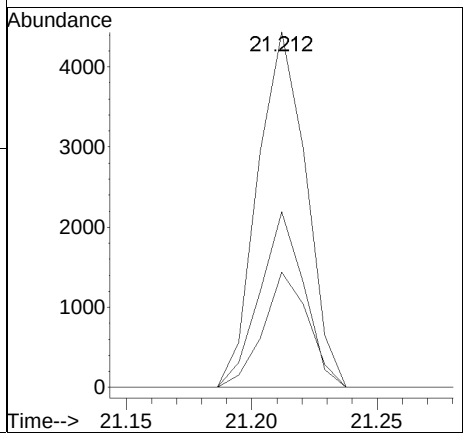


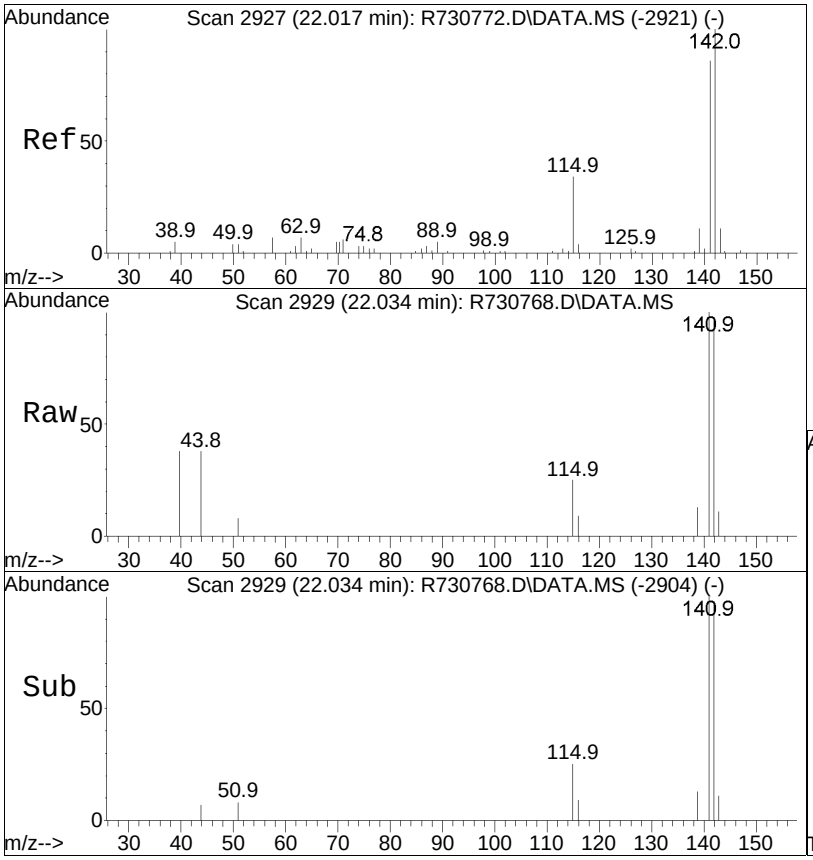


#119
hexachlorobutadiene
Concen: 0.19 ppbV
RT: 21.212 min Scan# 2833
Delta R.T. 0.009 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:225 Resp: 5954

Ion	Ratio	Lower	Upper
225	100		
260	32.4	27.4	41.0
118	49.4	34.8	52.2

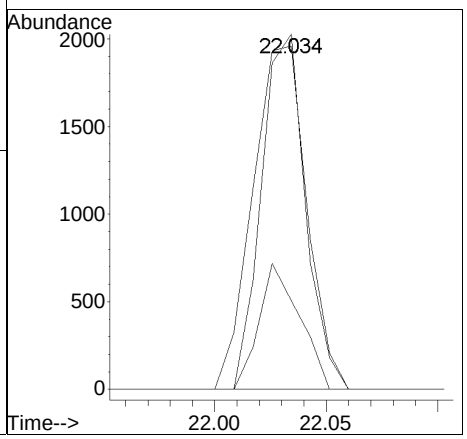


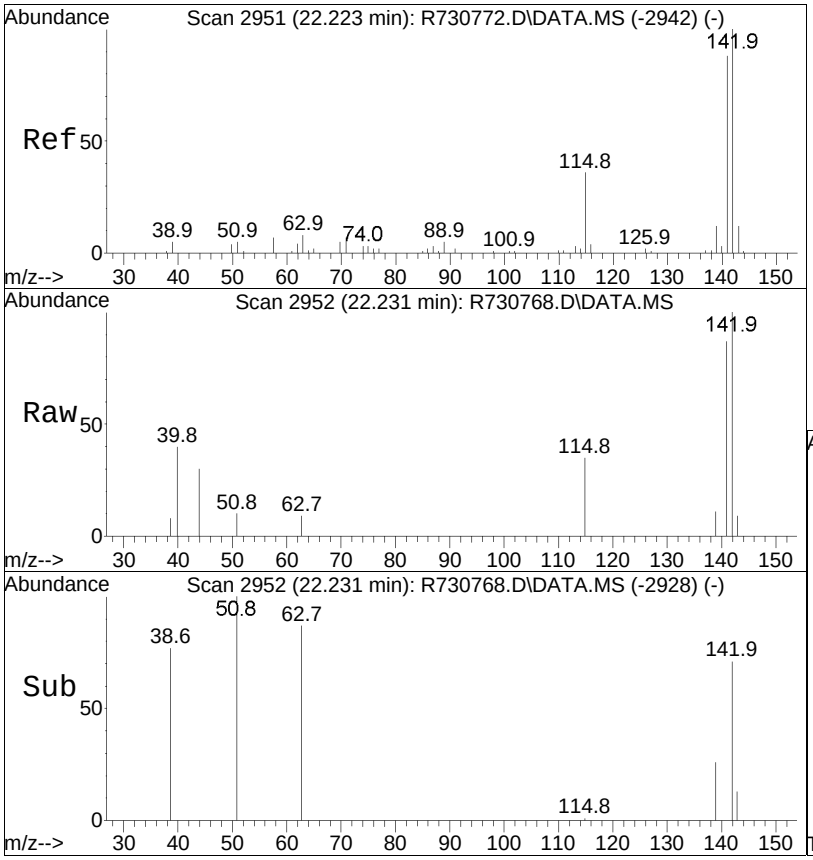


#120
2-methylnaphthalene
Concen: 0.12 ppbV
RT: 22.034 min Scan# 2929
Delta R.T. 0.017 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:142 Resp: 3303

Ion	Ratio	Lower	Upper
142	100		
141	103.5	68.7	103.1#
115	25.8	27.5	41.3#

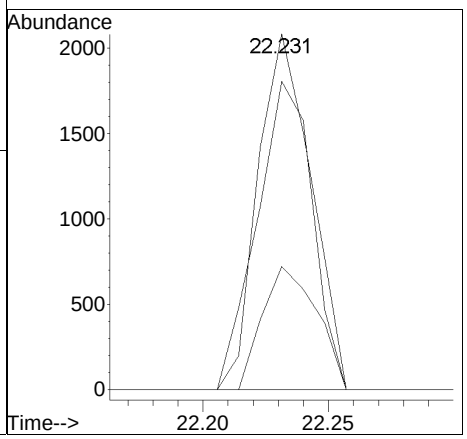




#121
1-methylnaphthalene
Concen: 0.12 ppbV
RT: 22.231 min Scan# 2952
Delta R.T. 0.009 min
Lab File: R730768.D
Acq: 28 Mar 2015 4:36 pm

Tgt Ion:142 Resp: 3075

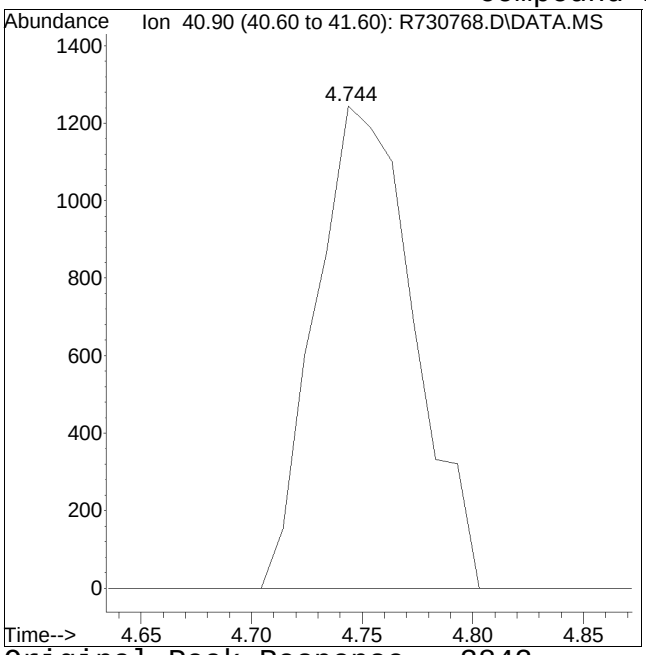
Ion	Ratio	Lower	Upper
142	100		
141	86.7	70.6	105.8
115	34.6	28.7	43.1



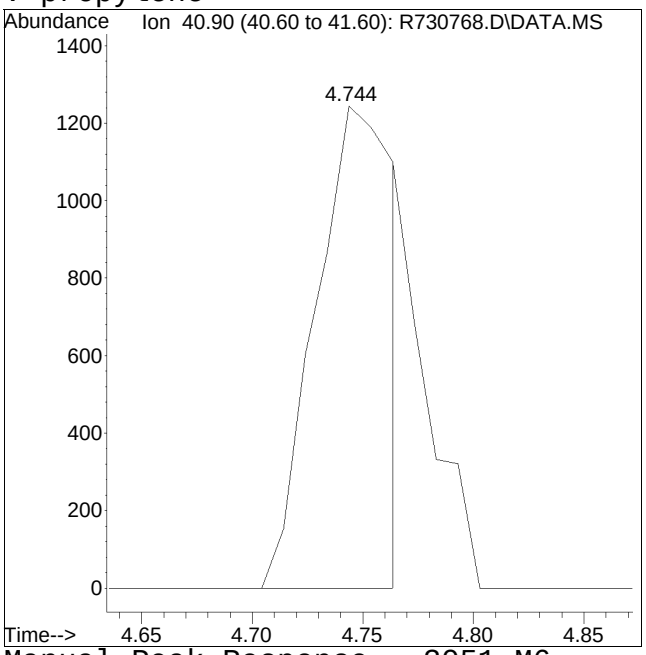
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 7:41 am

Compound #3: propylene



Original Peak Response = 3842



Manual Peak Response = 3051 M6

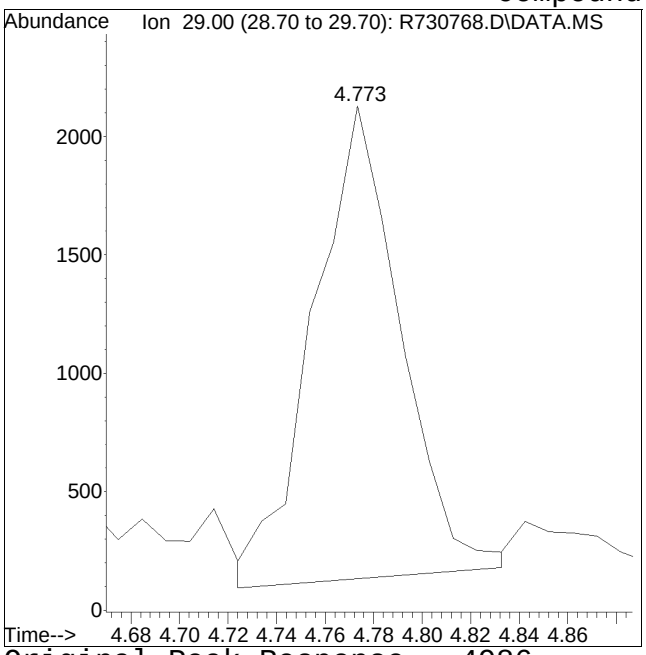
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

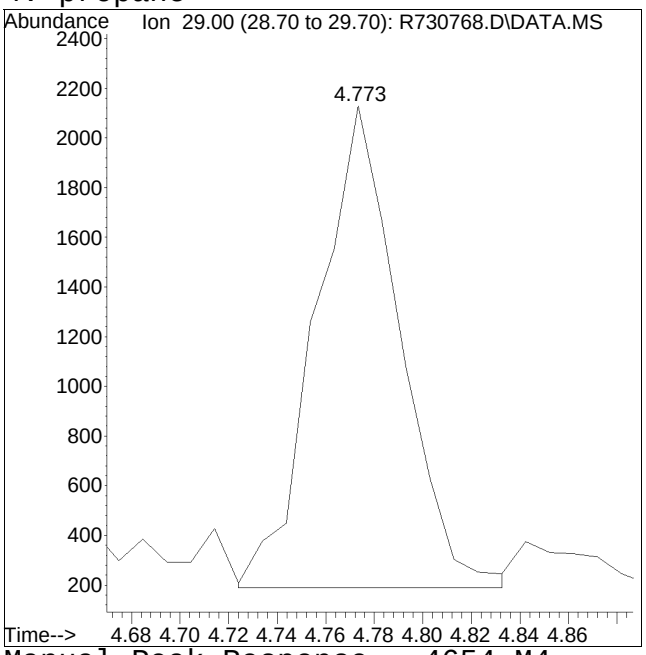
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730768.D
Date Inj'd : 3/28/2015 4:36 pm
Sample : ITO15-SIMSTD0.2

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 7:41 am

Compound #4: propane



Original Peak Response = 4986



Manual Peak Response = 4654 M4

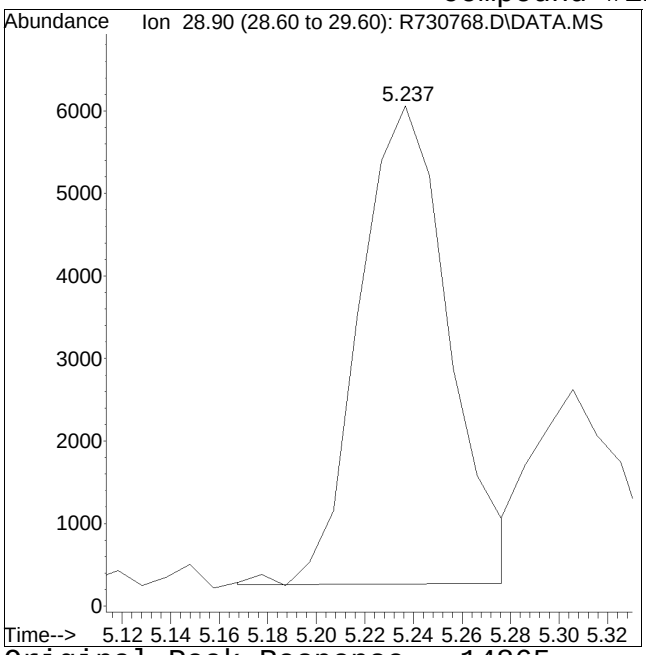
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

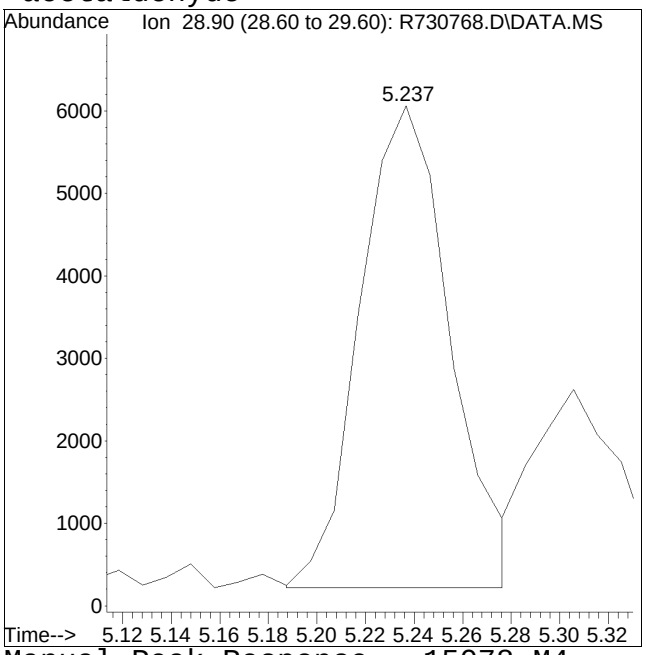
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730768.D
Date Inj'd : 3/28/2015 4:36 pm
Sample : ITO15-SIMSTD0.2

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 7:41 am

Compound #12: acetaldehyde



Original Peak Response = 14865



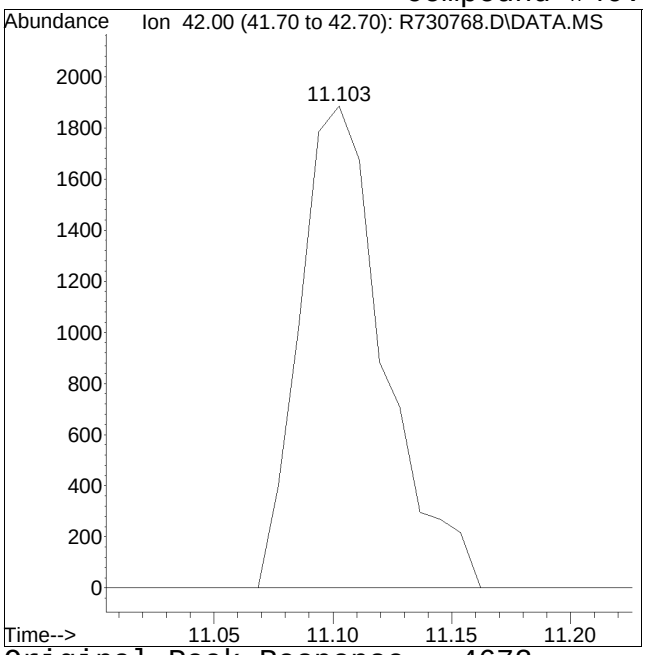
Manual Peak Response = 15078 M4

M4 = Poor automated baseline construction.

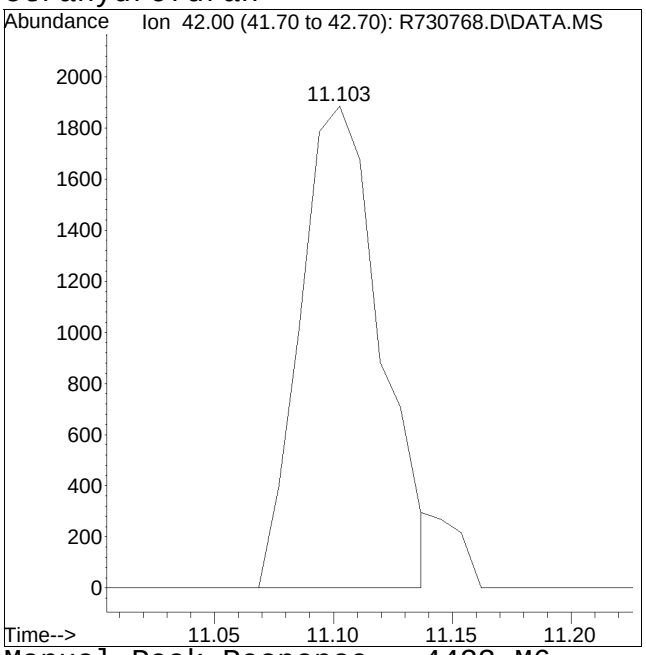
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 7:41 am

Compound #40: Tetrahydrofuran



Original Peak Response = 4672



Manual Peak Response = 4423 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:48:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.465	49	164548	10.000	ppbV	0.00
Standard Area = 171708			Recovery = 95.83%			
43) 1,4-difluorobenzene	12.557	114	274270	10.000	ppbV	0.01
Standard Area = 281554			Recovery = 97.41%			
67) chlorobenzene-D5	16.834	54	88433	10.000	ppbV	0.00
Standard Area = 105394			Recovery = 83.91%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.290	65	131277	9.899	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.99%			
69) toluene-D8	15.181	98	294658	10.754	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.54%			
90) bromofluorobenzene	18.005	95	177214	9.660	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.60%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.704	51	15482	0.536	ppbV	96
3) propylene	4.754	41	8588M6	0.568	ppbV	
4) propane	4.783	29	10100M4	0.560	ppbV	
5) dichlorodifluoromethane	4.842	85	11772	0.475	ppbV	97
6) chloromethane	5.059	50	8081	0.556	ppbV	95
7) Freon-114	5.207	85	16902	0.501	ppbV	93
8) methanol	5.306	31	18060	2.745	ppbV #	40
9) vinyl chloride	5.365	62	6515	0.509	ppbV #	88
10) 1,3-butadiene	5.562	54	5795	0.525	ppbV	97
11) butane	5.631	43	14361	0.537	ppbV #	95
12) acetaldehyde	5.237	29	30911	2.743	ppbV	94
13) bromomethane	5.912	94	5942	0.543	ppbV	97
14) chloroethane	6.152	64	2729	0.469	ppbV	96
15) ethanol	6.344	31	34667M4	2.470	ppbV	
16) dichlorofluoromethane	6.288	67	13980	0.522	ppbV	94
17) vinyl bromide	6.600	106	5355	0.479	ppbV	96
18) acrolein	6.768	56	2790	0.484	ppbV #	81
19) acetone	6.952	43	72271	2.747	ppbV	96
20) acetonitrile	6.600	41	8228	0.512	ppbV #	81
21) trichlorofluoromethane	7.135	101	19611	0.543	ppbV	98
22) isopropyl alcohol	7.295	45	14867	0.512	ppbV	99
23) acrylonitrile	7.511	53	5059	0.465	ppbV	92
24) pentane	7.575	43	15351M6	0.487	ppbV	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:48:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	7.631	31	12598	0.523	ppbV		97
26) 1,1-dichloroethene	7.903	61	11610	0.517	ppbV		98
27) tertiary butyl alcohol	8.047	59	12428M3	0.471	ppbV		
28) methylene chloride	8.055	49	12795	0.620	ppbV		94
29) 3-chloropropene	8.191	41	11894	0.516	ppbV		97
30) carbon disulfide	8.374	76	16366	0.496	ppbV	#	82
31) Freon 113	8.366	101	13470	0.541	ppbV		93
32) trans-1,2-dichloroethene	9.138	61	10291	0.501	ppbV		94
33) 1,1-dichloroethane	9.363	63	13101	0.557	ppbV		100
34) MTBE	9.472	73	15041	0.497	ppbV		92
35) vinyl acetate	9.549	43	13429	0.468	ppbV	#	95
36) 2-butanone	9.834	43	21099	0.537	ppbV		98
37) cis-1,2-dichloroethene	10.287	61	9102	0.515	ppbV		96
38) Ethyl Acetate	10.568	61	2210	0.546	ppbV	#	13
39) chloroform	10.615	83	13940	0.559	ppbV		97
40) Tetrahydrofuran	11.086	42	10549M6	0.529	ppbV		
41) 2,2-dichloropropane	10.644	77	10822	0.525	ppbV		94
42) 1,2-dichloroethane	11.409	62	10357	0.529	ppbV	#	95
44) hexane	10.521	57	10545	0.520	ppbV	#	1
45) diisopropyl ether	10.550	87	4031	0.505	ppbV	#	97
46) tert-butyl ethyl ether	11.128	59	18396	0.491	ppbV		94
48) 1,1,1-trichloroethane	11.687	97	12991	0.472	ppbV		96
49) 1,1-dichloropropene	12.018	75	7204	0.479	ppbV		91
50) benzene	12.173	78	14103	0.530	ppbV		93
51) thiophene	12.318	84	9721	0.505	ppbV	#	79
52) carbon tetrachloride	12.339	117	11215	0.462	ppbV		94
53) cyclohexane	12.474	56	8946	0.513	ppbV		91
54) tert-amyl methyl ether	12.847	73	15178	0.470	ppbV		95
55) dibromomethane	13.033	93	8676	0.512	ppbV		91
56) 1,2-dichloropropane	13.064	63	8395	0.529	ppbV	#	88
57) bromodichloromethane	13.271	83	14723M4	0.467	ppbV		
58) 1,4-dioxane	13.365	88	3772	0.436	ppbV		83
59) trichloroethene	13.313	130	8652	0.463	ppbV		93
60) 2,2,4-trimethylpentane	13.354	57	37980	0.465	ppbV		97
61) methyl methacrylate	13.530	41	11714	0.456	ppbV		94
62) heptane	13.634	43	17141	0.474	ppbV		98
63) cis-1,3-dichloropropene	14.261	75	7713	0.393	ppbV		98
64) 4-methyl-2-pentanone	14.345	43	23008	0.443	ppbV		99
65) trans-1,3-dichloropropene	14.828	75	7098	0.355	ppbV		89
66) 1,1,2-trichloroethane	15.009	97	7354	0.455	ppbV	#	88

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:48:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	15.280	91	21883	0.537	ppbV		92
70) 2-methylthiophene	15.343	97	17523	0.511	ppbV		99
71) 1,3-dichloropropane	15.307	76	9658	0.518	ppbV		98
72) 2-hexanone	15.551	43	21390	0.492	ppbV		93
73) 3-methylthiophene	15.343	97	17523	0.511	ppbV		99
74) dibromochloromethane	15.687	129	13068	0.456	ppbV		95
75) 1,2-dibromoethane	15.913	107	11279	0.503	ppbV		92
76) butyl acetate	16.102	73	1657	0.406	ppbV		93
77) octane	16.157	85	5731	0.537	ppbV	#	94
78) tetrachloroethene	16.310	166	10475	0.542	ppbV		93
79) 1,1,1,2-tetrachloroethane	16.856	131	10828	0.545	ppbV		99
80) chlorobenzene	16.875	112	16470	0.509	ppbV		96
81) ethylbenzene	17.163	91	24778	0.467	ppbV		96
82) 2-ethylthiophene	17.196	97	16997	0.458	ppbV		97
83) m+p-xylene	17.303	91	39024M1	0.932	ppbV		
84) bromoform	17.381	173	9729	0.397	ppbV		97
85) styrene	17.577	104	11913	0.389	ppbV		96
86) 1,1,2,2-tetrachloroethane	17.662	83	15923	0.516	ppbV		95
87) o-xylene	17.658	91	20842	0.468	ppbV		97
88) 1,2,3-trichloropropane	17.758	75	11510	0.503	ppbV	#	91
89) nonane	17.795	43	24870	0.510	ppbV		92
91) isopropylbenzene	18.098	105	31041	0.500	ppbV		96
92) bromobenzene	18.179	77	12807	0.466	ppbV		94
93) 2-chlorotoluene	18.456	126	6687	0.434	ppbV	#	56
94) n-propylbenzene	18.471	120	7534	0.455	ppbV		98
95) 4-chlorotoluene	18.508	91	18406	0.440	ppbV		96
96) 4-ethyl toluene	18.574	105	28963	0.447	ppbV	#	96
97) 1,3,5-trimethylbenzene	18.626	105	25588	0.472	ppbV		99
98) tert-butylbenzene	18.934	119	29379	0.478	ppbV		95
99) 1,2,4-trimethylbenzene	18.934	105	23234	0.426	ppbV		91
100) decane	18.978	57	21260	0.486	ppbV		95
101) Benzyl Chloride	19.048	91	11056	0.328	ppbV		97
102) 1,3-dichlorobenzene	19.063	146	14263	0.454	ppbV		97
103) 1,4-dichlorobenzene	19.114	146	13410	0.430	ppbV		98
104) sec-butylbenzene	19.133	105	39529	0.468	ppbV		96
105) 1,2,3-trimethylbenzene	19.255	105	22574	0.477	ppbV		92
106) p-isopropyltoluene	19.244	119	33513	0.447	ppbV		95
107) 1,2-dichlorobenzene	19.373	146	13537	0.437	ppbV		95
108) n-butylbenzene	19.561	91	27904	0.433	ppbV		97
109) indan	19.413	117	20651	0.456	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:48:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

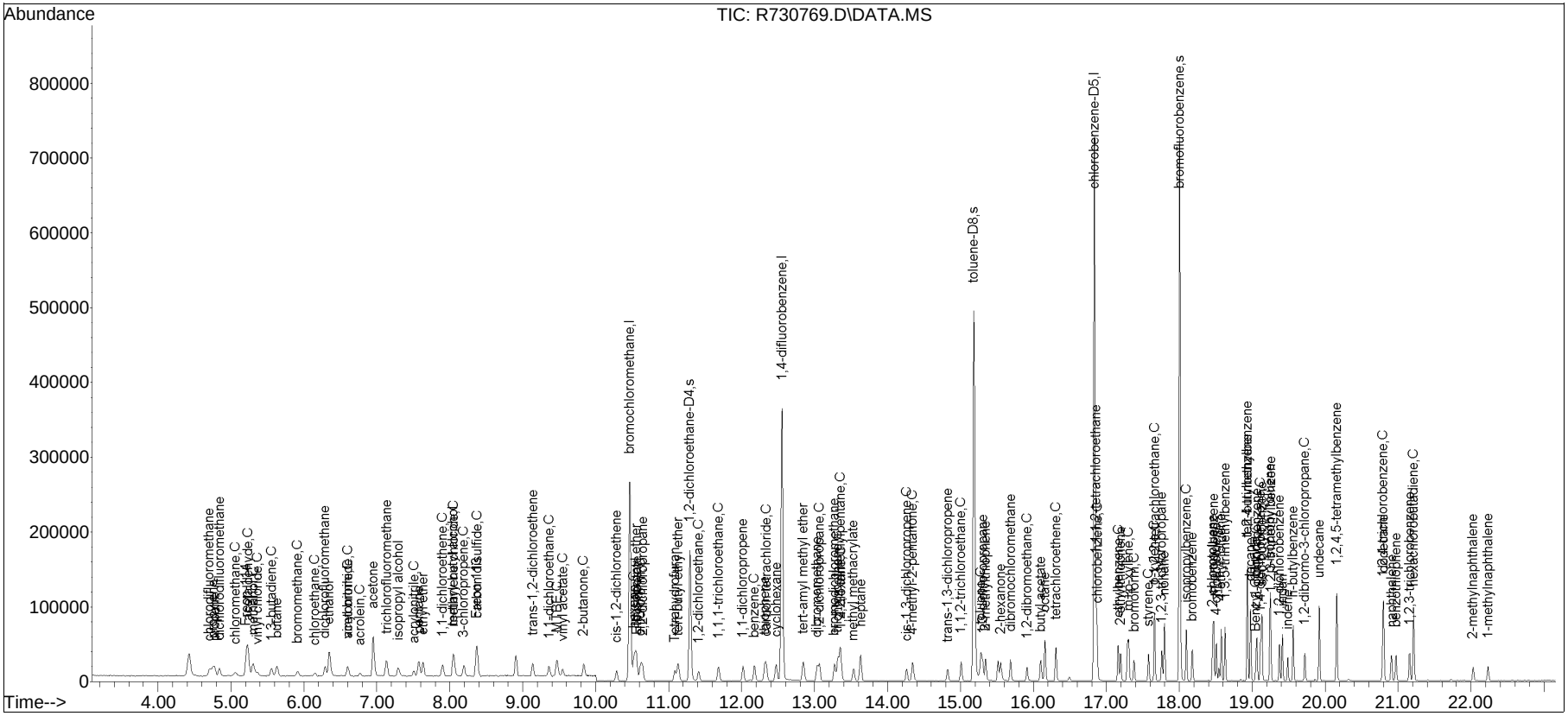
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.487	115	10771	0.413	ppbV	94
111) 1,2-dibromo-3-chloropr...	19.719	75	6349	0.422	ppbV	89
112) undecane	19.918	57	22557	0.417	ppbV	97
113) 1,2,4,5-tetramethylben...	20.158	119	44272	0.385	ppbV	95
114) dodecane	20.801	57	22614	0.372	ppbV	97
115) 1,2,4-trichlorobenzene	20.792	180	9764	0.376	ppbV	96
116) naphthalene	20.912	128	23760	0.369	ppbV	99
117) 1,2,3-trichlorobenzene	21.160	180	9893	0.384	ppbV	94
118) benzothiophene	20.972	134	21435	0.380	ppbV	100
119) hexachlorobutadiene	21.212	225	13501	0.413	ppbV	94
120) 2-methylnaphthalene	22.026	142	8542	0.294	ppbV	94
121) 1-methylnaphthalene	22.231	142	8684	0.345	ppbV	94

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

Sub List : Default - All compounds listed\150328T_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

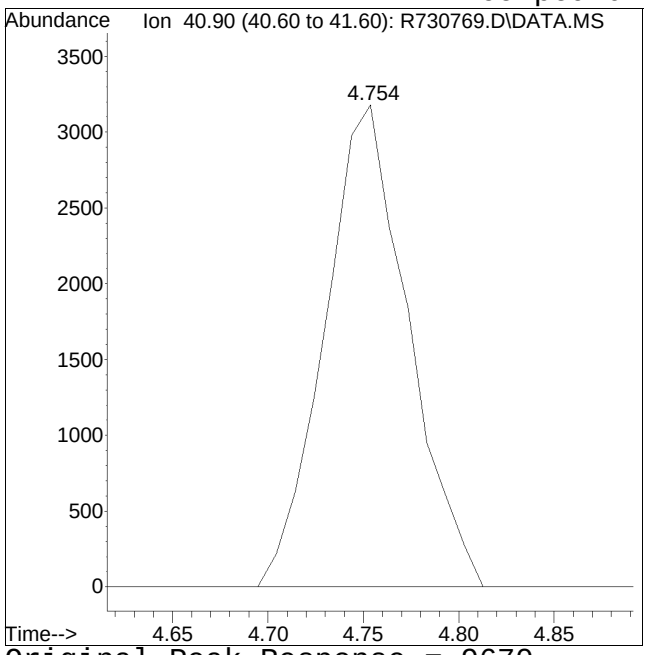
Quant Time: Mar 29 07:48:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration



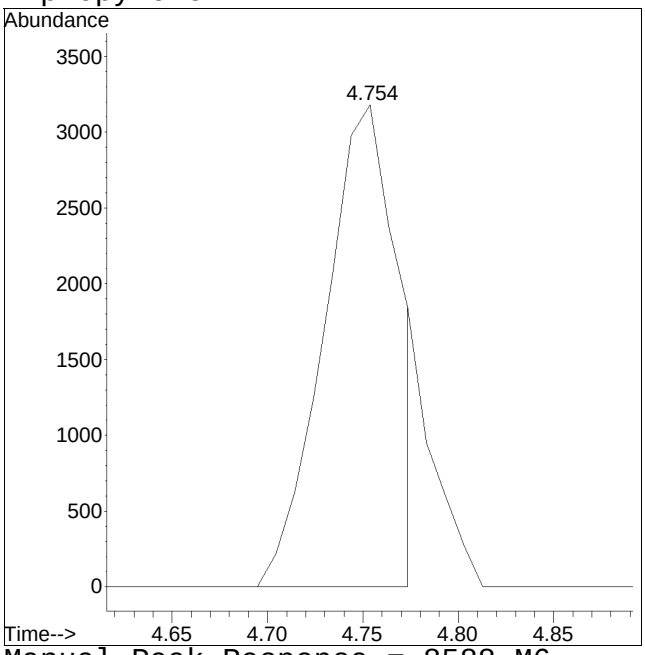
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 7:41 am

Compound #3: propylene



Original Peak Response = 9670



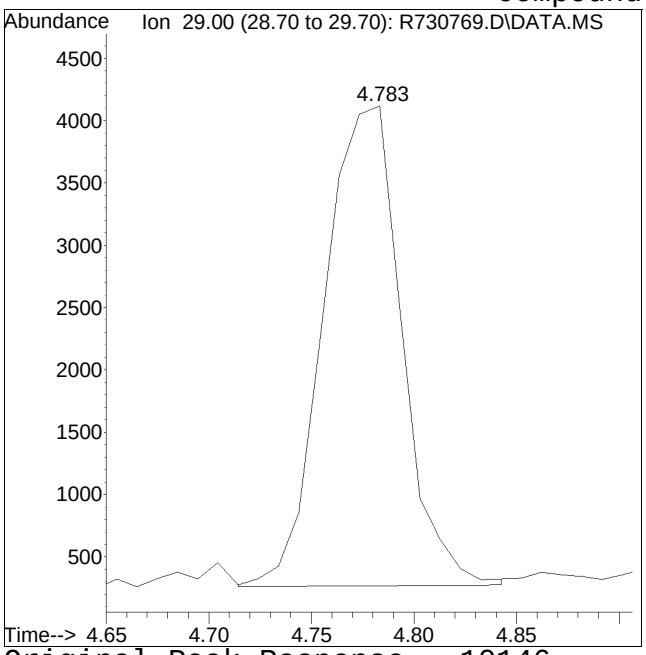
Manual Peak Response = 8588 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

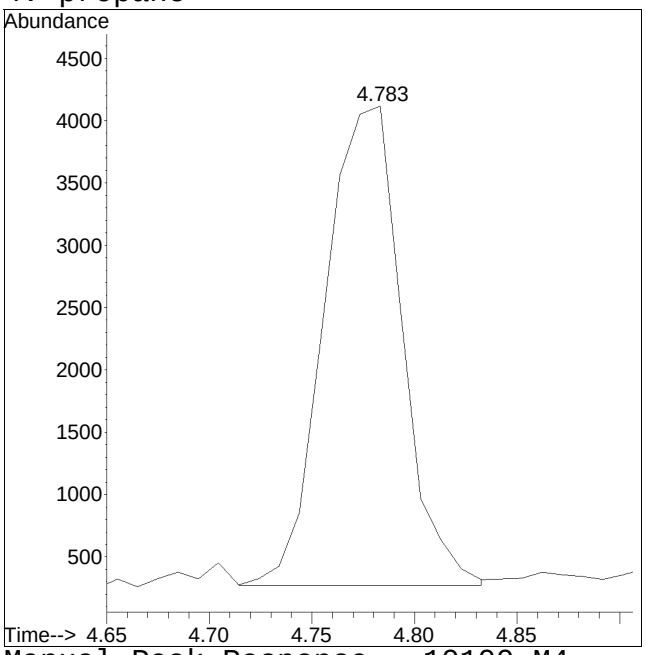
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 7:41 am

Compound #4: propane



Original Peak Response = 10146



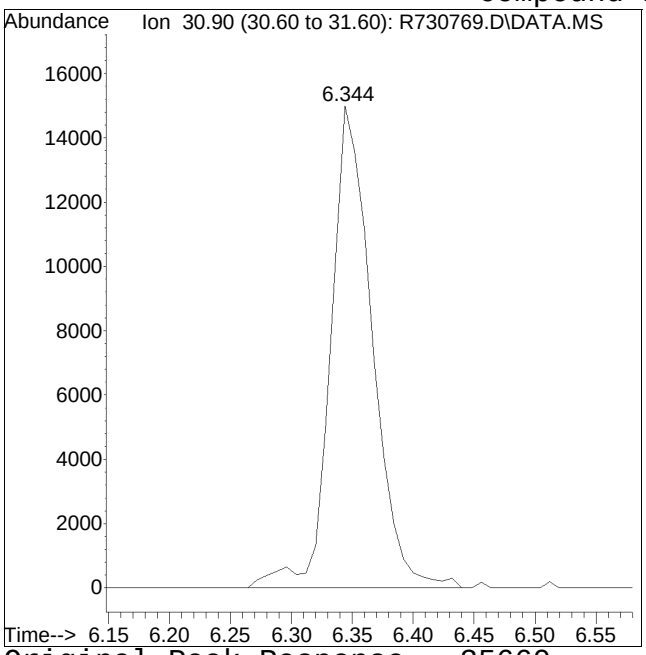
Manual Peak Response = 10100 M4

M4 = Poor automated baseline construction.

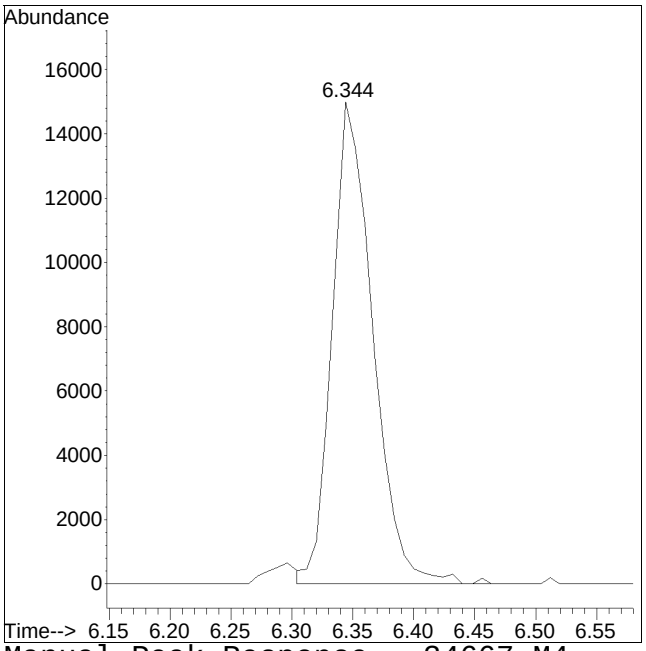
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 7:41 am

Compound #15: ethanol



Original Peak Response = 35660



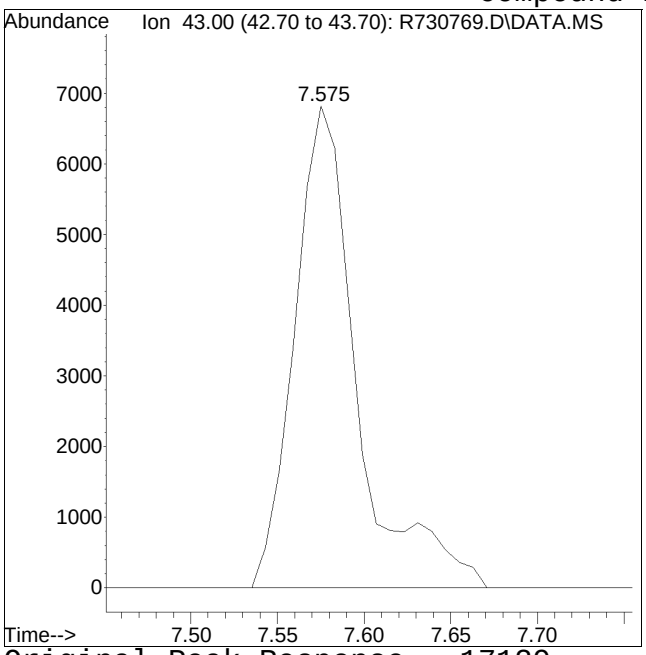
Manual Peak Response = 34667 M4

M4 = Poor automated baseline construction.

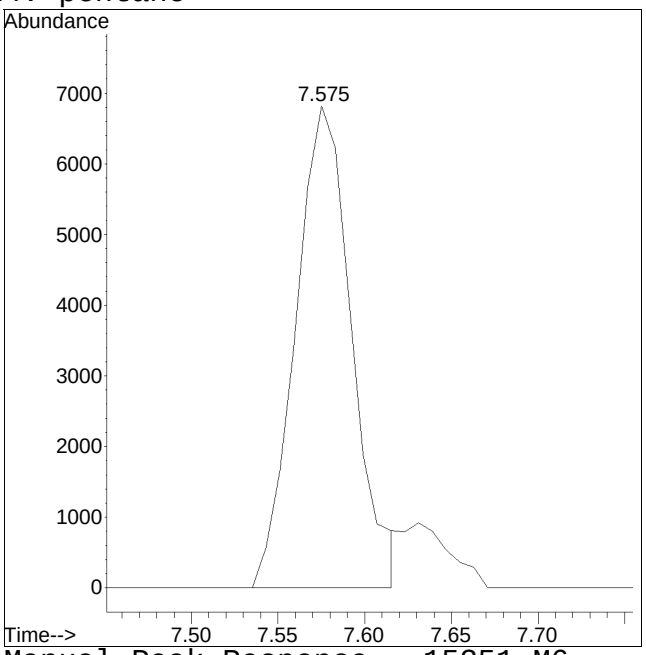
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 7:41 am

Compound #24: pentane



Original Peak Response = 17129



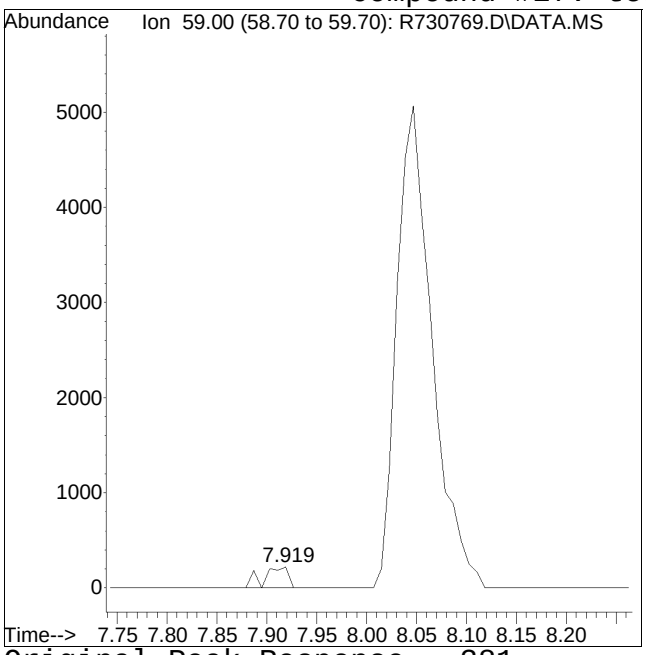
Manual Peak Response = 15351 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

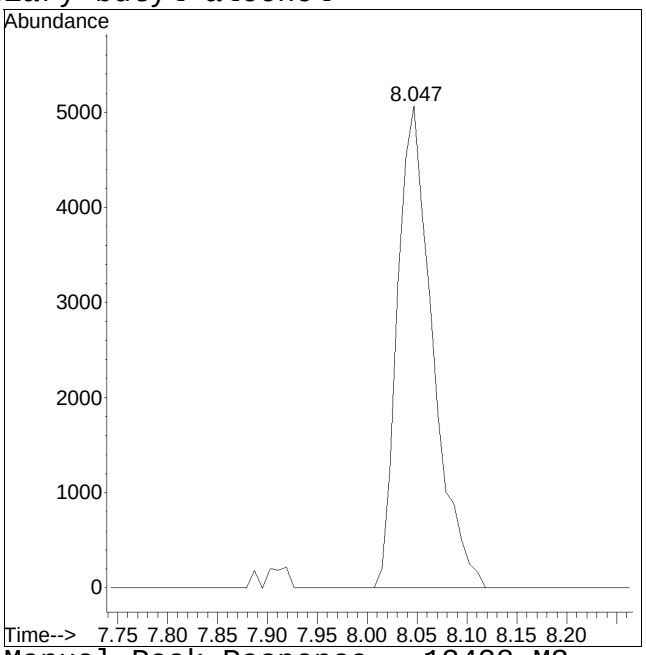
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 7:41 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 381



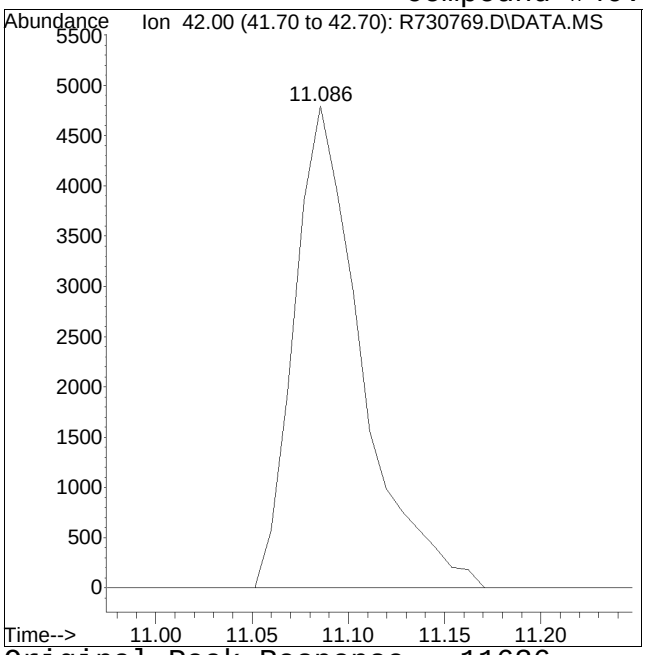
Manual Peak Response = 12428 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

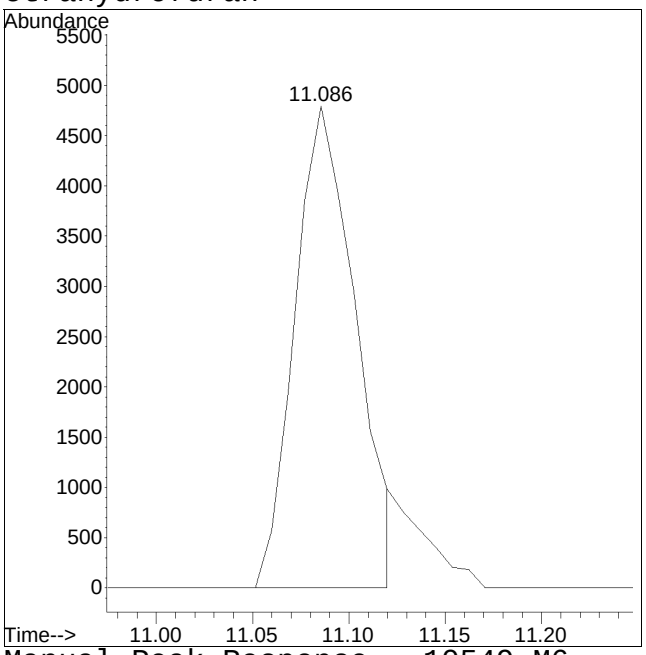
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 7:41 am

Compound #40: Tetrahydrofuran



Original Peak Response = 11636



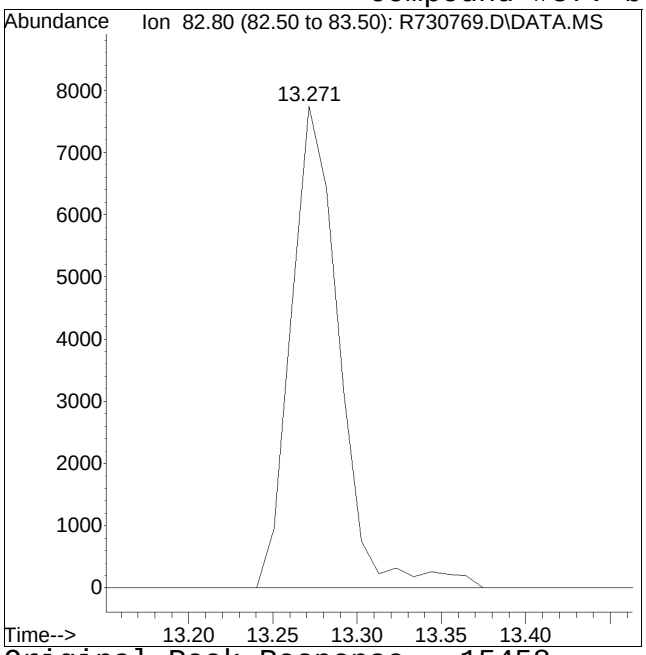
Manual Peak Response = 10549 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

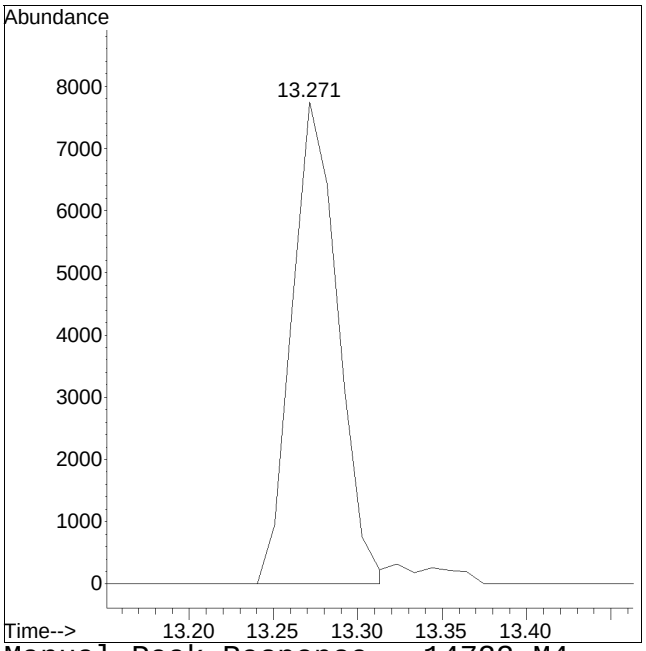
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 7:41 am

Compound #57: bromodichloromethane



Original Peak Response = 15458



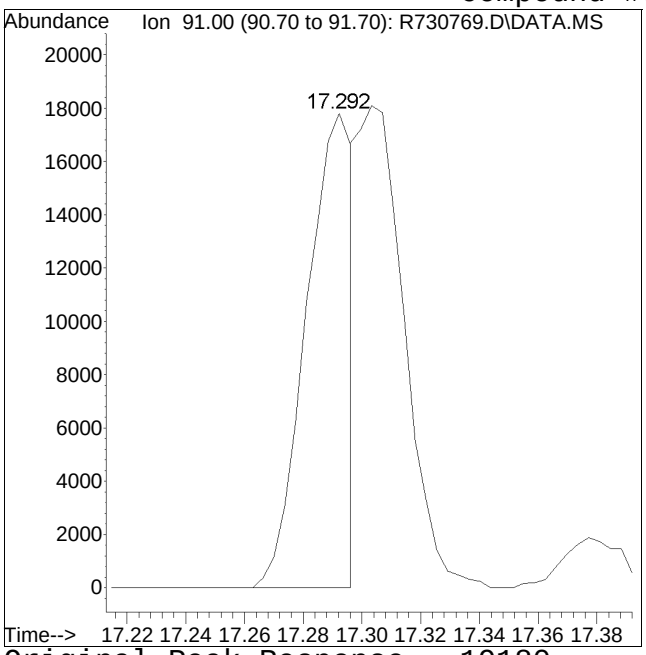
Manual Peak Response = 14723 M4

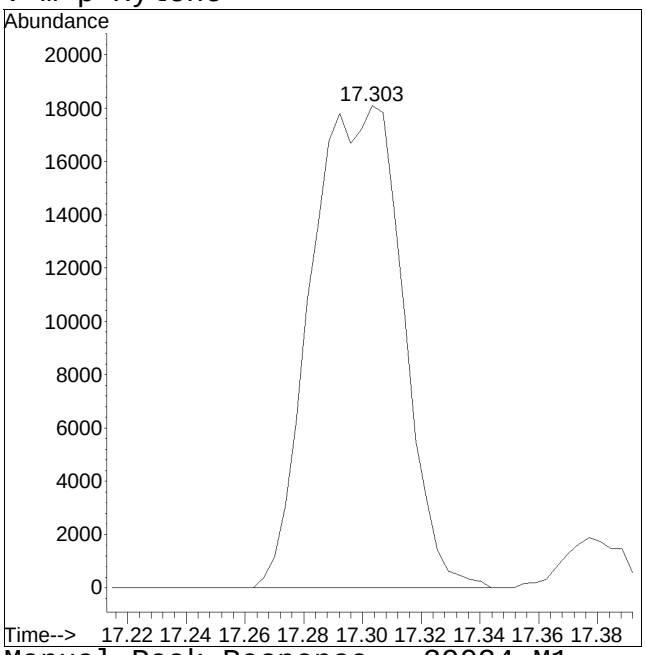
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 7:41 am

Compound #83: m+p-xylene





Original Peak Response = 19180 Manual Peak Response = 39024 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:51:30 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.465	49	167752	10.000	ppbV	0.00
Standard Area = 171708			Recovery = 97.70%			
43) 1,4-difluorobenzene	12.546	114	268906	10.000	ppbV	0.00
Standard Area = 281554			Recovery = 95.51%			
67) chlorobenzene-D5	16.834	54	89277	10.000	ppbV	0.00
Standard Area = 105394			Recovery = 84.71%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.290	65	132889	10.221	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.21%			
69) toluene-D8	15.181	98	300316	10.857	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.57%			
90) bromofluorobenzene	18.002	95	178500	9.638	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.38%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.704	51	30706	1.043	ppbV	95
3) propylene	4.754	41	14388M6	0.933	ppbV	
4) propane	4.773	29	18587M4	1.010	ppbV	
5) dichlorodifluoromethane	4.842	85	22545	0.892	ppbV	94
6) chloromethane	5.059	50	15848	1.070	ppbV	95
7) Freon-114	5.207	85	35076	1.019	ppbV	98
8) methanol	5.296	31	35087	5.232	ppbV #	73
9) vinyl chloride	5.365	62	12744	0.976	ppbV	96
10) 1,3-butadiene	5.562	54	10821	0.962	ppbV	91
11) butane	5.631	43	26367	0.968	ppbV	93
12) acetaldehyde	5.237	29	60903M4	5.301	ppbV	
13) bromomethane	5.912	94	11553	1.036	ppbV	93
14) chloroethane	6.152	64	5906	0.995	ppbV	94
15) ethanol	6.336	31	68732M6	4.803	ppbV	
16) dichlorofluoromethane	6.288	67	27733	1.017	ppbV	99
17) vinyl bromide	6.600	106	11361	0.996	ppbV	98
18) acrolein	6.760	56	5642	0.959	ppbV #	88
19) acetone	6.936	43	139052	5.184	ppbV #	98
20) acetonitrile	6.592	41	17016	1.039	ppbV	92
21) trichlorofluoromethane	7.135	101	38705	1.052	ppbV	98
22) isopropyl alcohol	7.279	45	29333	0.992	ppbV	99
23) acrylonitrile	7.503	53	11582	1.044	ppbV	98
24) pentane	7.575	43	29913	0.931	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:51:30 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	7.623	31	24048	0.979	ppbV		95
26) 1,1-dichloroethene	7.903	61	23136	1.011	ppbV		94
27) tertiary butyl alcohol	8.023	59	26162	0.973	ppbV		98
28) methylene chloride	8.055	49	24703	1.173	ppbV		99
29) 3-chloropropene	8.191	41	23086	0.983	ppbV		93
30) carbon disulfide	8.367	76	32748	0.974	ppbV		91
31) Freon 113	8.367	101	26834	1.058	ppbV		97
32) trans-1,2-dichloroethene	9.138	61	21335	1.020	ppbV		99
33) 1,1-dichloroethane	9.356	63	23854	0.994	ppbV		93
34) MTBE	9.459	73	30062	0.975	ppbV		97
35) vinyl acetate	9.543	43	25054	0.856	ppbV		99
36) 2-butanone	9.828	43	40377	1.008	ppbV		99
37) cis-1,2-dichloroethene	10.287	61	17882	0.993	ppbV		92
38) Ethyl Acetate	10.559	61	3934	0.954	ppbV	#	38
39) chloroform	10.615	83	26539	1.044	ppbV		93
40) Tetrahydrofuran	11.069	42	19109M6	0.940	ppbV		
41) 2,2-dichloropropane	10.634	77	20880	0.994	ppbV		99
42) 1,2-dichloroethane	11.409	62	20331	1.019	ppbV		98
44) hexane	10.522	57	19814	0.997	ppbV	#	28
45) diisopropyl ether	10.540	87	7988	1.020	ppbV		95
46) tert-butyl ethyl ether	11.120	59	38279	1.043	ppbV		99
48) 1,1,1-trichloroethane	11.687	97	25866	0.958	ppbV		93
49) 1,1-dichloropropene	12.018	75	14430	0.978	ppbV		97
50) benzene	12.173	78	26395	1.012	ppbV		96
51) thiophene	12.318	84	19803	1.049	ppbV		99
52) carbon tetrachloride	12.339	117	24602	1.033	ppbV		97
53) cyclohexane	12.474	56	17306	1.013	ppbV		94
54) tert-amyl methyl ether	12.836	73	30379	0.960	ppbV		90
55) dibromomethane	13.033	93	16707	1.006	ppbV		95
56) 1,2-dichloropropane	13.064	63	14711	0.946	ppbV		97
57) bromodichloromethane	13.271	83	29458	0.954	ppbV		95
58) 1,4-dioxane	13.344	88	8089	0.953	ppbV	#	64
59) trichloroethene	13.323	130	18204	0.994	ppbV		90
60) 2,2,4-trimethylpentane	13.354	57	76368	0.954	ppbV		98
61) methyl methacrylate	13.530	41	22416	0.891	ppbV		99
62) heptane	13.634	43	34440	0.971	ppbV	#	95
63) cis-1,3-dichloropropene	14.261	75	16154	0.840	ppbV		95
64) 4-methyl-2-pentanone	14.329	43	46960	0.921	ppbV		99
65) trans-1,3-dichloropropene	14.819	75	15085	0.770	ppbV		98
66) 1,1,2-trichloroethane	15.009	97	14914	0.941	ppbV		93

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:51:30 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	15.280	91	42585	1.035	ppbV		98
70) 2-methylthiophene	15.343	97	35305	1.019	ppbV		98
71) 1,3-dichloropropane	15.307	76	19412	1.031	ppbV		95
72) 2-hexanone	15.542	43	42179	0.962	ppbV	#	91
73) 3-methylthiophene	15.343	97	35305	1.019	ppbV		98
74) dibromochloromethane	15.687	129	26563M1	0.918	ppbV		
75) 1,2-dibromoethane	15.913	107	23021	1.017	ppbV		94
76) butyl acetate	16.093	73	3579	0.869	ppbV		85
77) octane	16.157	85	11149	1.035	ppbV		93
78) tetrachloroethene	16.310	166	19860	1.019	ppbV		93
79) 1,1,1,2-tetrachloroethane	16.856	131	21123	1.054	ppbV		97
80) chlorobenzene	16.871	112	31945	0.978	ppbV		96
81) ethylbenzene	17.159	91	50390	0.941	ppbV		97
82) 2-ethylthiophene	17.192	97	36107	0.963	ppbV		100
83) m+p-xylene	17.289	91	81376M1	1.924	ppbV		
84) bromoform	17.377	173	20752	0.840	ppbV		96
85) styrene	17.577	104	26308	0.851	ppbV		96
86) 1,1,2,2-tetrachloroethane	17.658	83	31030	0.996	ppbV		100
87) o-xylene	17.658	91	43272	0.961	ppbV		98
88) 1,2,3-trichloropropane	17.758	75	23595	1.020	ppbV		96
89) nonane	17.795	43	50227	1.021	ppbV		99
91) isopropylbenzene	18.094	105	61786	0.986	ppbV		99
92) bromobenzene	18.175	77	25747	0.928	ppbV		94
93) 2-chlorotoluene	18.456	126	14639	0.942	ppbV		82
94) n-propylbenzene	18.471	120	15410	0.922	ppbV		87
95) 4-chlorotoluene	18.504	91	37464	0.888	ppbV		97
96) 4-ethyl toluene	18.575	105	59388M6	0.908	ppbV		
97) 1,3,5-trimethylbenzene	18.626	105	53769	0.982	ppbV		98
98) tert-butylbenzene	18.930	119	60946	0.982	ppbV		99
99) 1,2,4-trimethylbenzene	18.930	105	49575	0.901	ppbV		92
100) decane	18.974	57	44107	0.999	ppbV		100
101) Benzyl Chloride	19.048	91	23343	0.686	ppbV		98
102) 1,3-dichlorobenzene	19.063	146	28192	0.889	ppbV		99
103) 1,4-dichlorobenzene	19.111	146	28208	0.896	ppbV		97
104) sec-butylbenzene	19.129	105	83676	0.981	ppbV		97
105) 1,2,3-trimethylbenzene	19.251	105	47091	0.986	ppbV		100
106) p-isopropyltoluene	19.240	119	68291	0.902	ppbV		98
107) 1,2-dichlorobenzene	19.369	146	27382	0.876	ppbV		98
108) n-butylbenzene	19.557	91	58915	0.905	ppbV		99
109) indan	19.410	117	42684	0.933	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 07:51:30 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

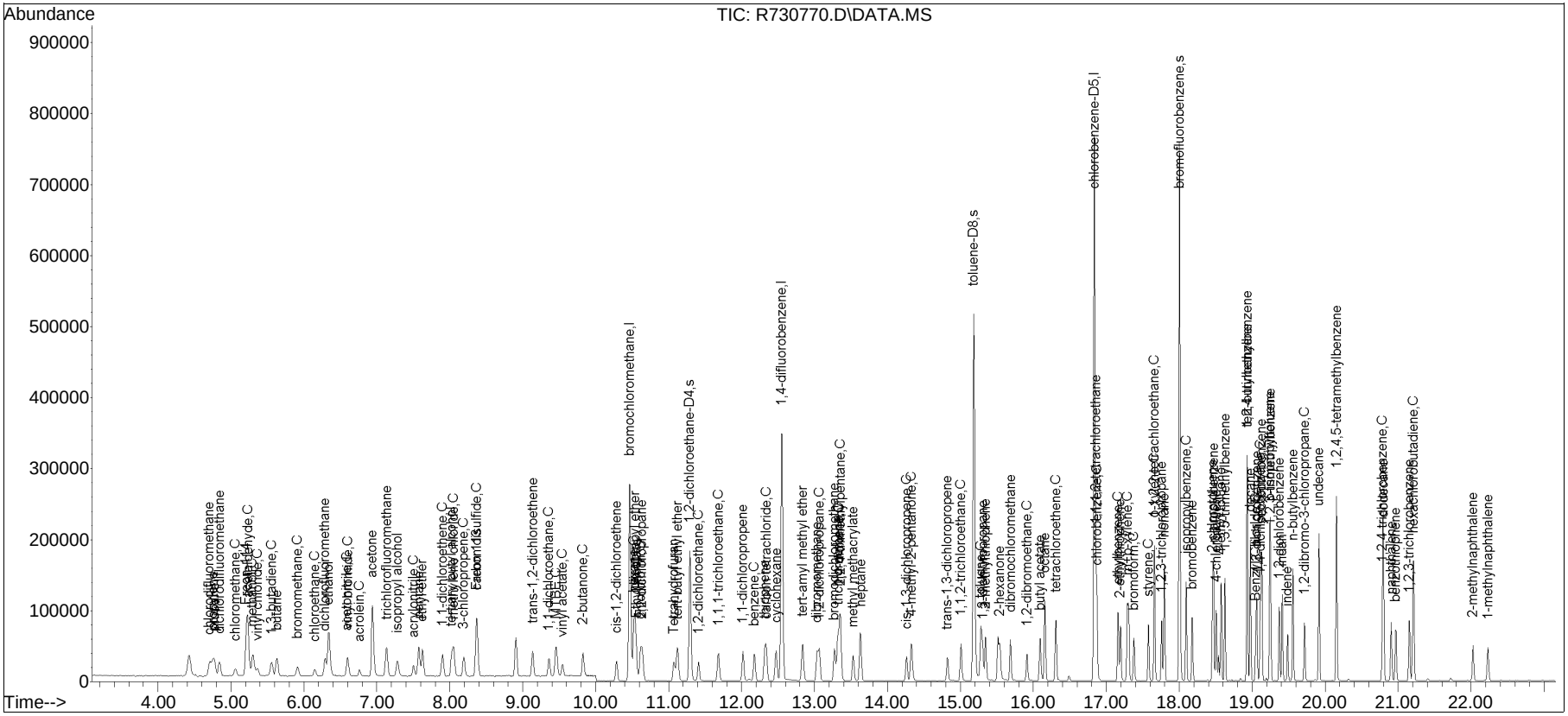
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.483	115	23476	0.891	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.716	75	12868	0.847	ppbV	91
112) undecane	19.915	57	48026	0.880	ppbV	99
113) 1,2,4,5-tetramethylben...	20.155	119	96042	0.827	ppbV	99
114) dodecane	20.801	57	49549	0.808	ppbV	99
115) 1,2,4-trichlorobenzene	20.784	180	20426	0.780	ppbV	98
116) naphthalene	20.903	128	48554	0.747	ppbV	98
117) 1,2,3-trichlorobenzene	21.152	180	20279	0.781	ppbV	97
118) benzothiophene	20.963	134	45957	0.807	ppbV	98
119) hexachlorobutadiene	21.212	225	27684	0.839	ppbV	91
120) 2-methylnaphthalene	22.026	142	20100	0.685	ppbV	99
121) 1-methylnaphthalene	22.231	142	20271	0.797	ppbV	89

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

Sub List : Default - All compounds listed\150328T_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771893
ALS Vial : 6 Sample Multiplier: 1

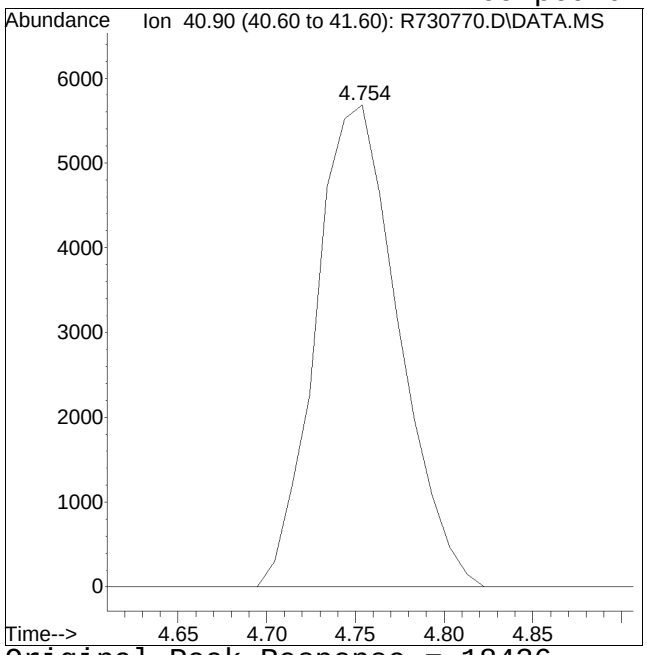
Quant Time: Mar 29 07:51:30 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration



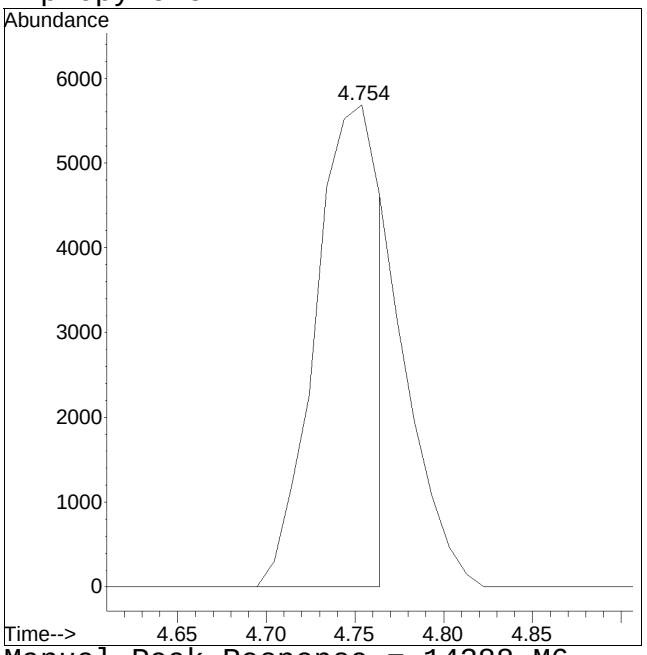
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 7:41 am

Compound #3: propylene



Original Peak Response = 18436



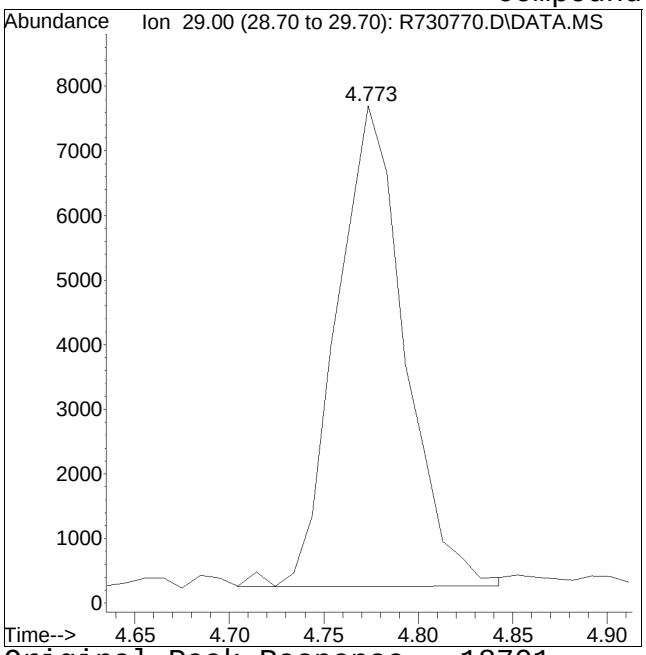
Manual Peak Response = 14388 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

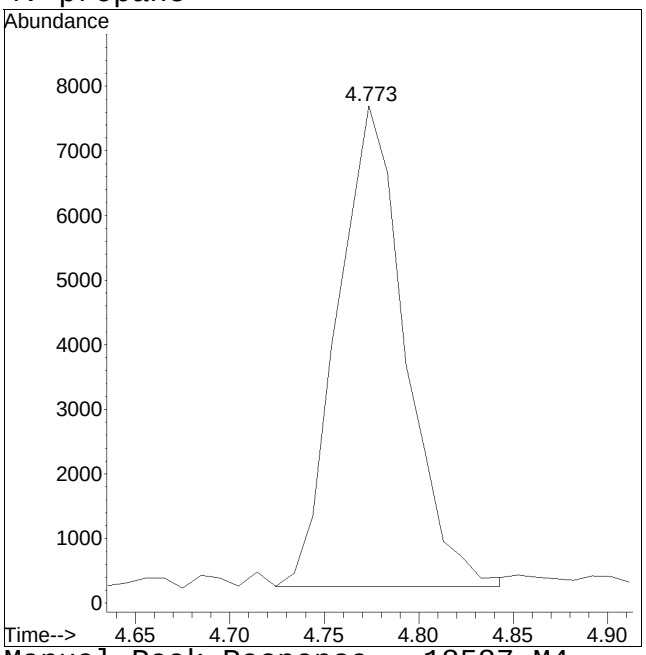
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 7:41 am

Compound #4: propane



Original Peak Response = 18701



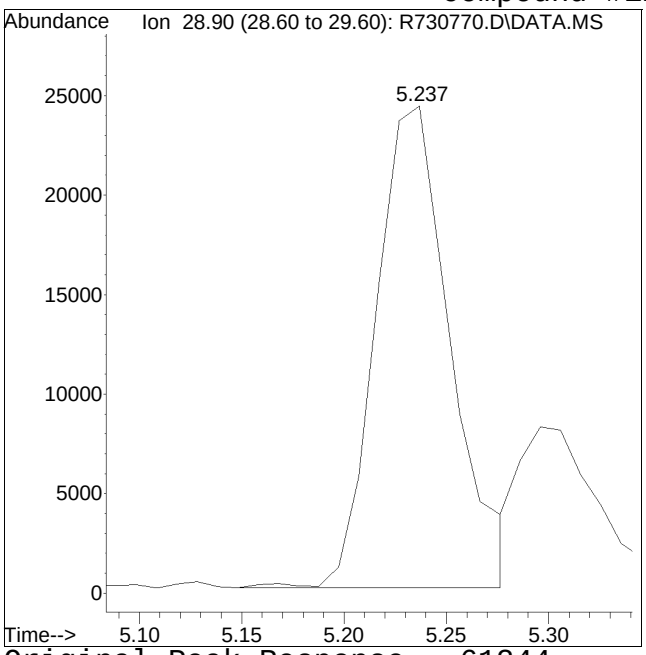
Manual Peak Response = 18587 M4

M4 = Poor automated baseline construction.

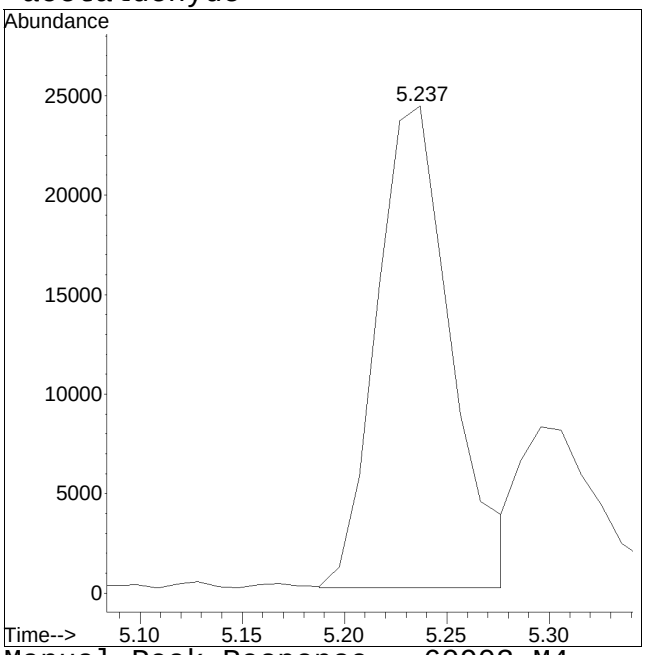
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 7:41 am

Compound #12: acetaldehyde



Original Peak Response = 61244



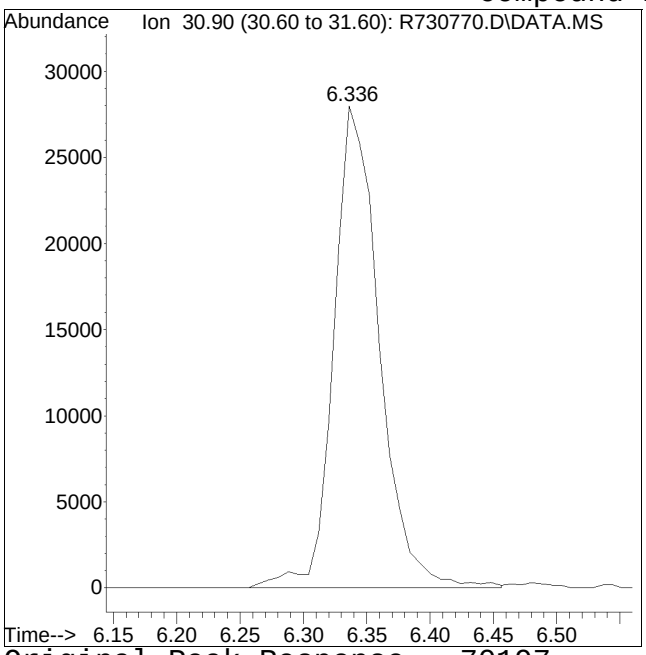
Manual Peak Response = 60903 M4

M4 = Poor automated baseline construction.

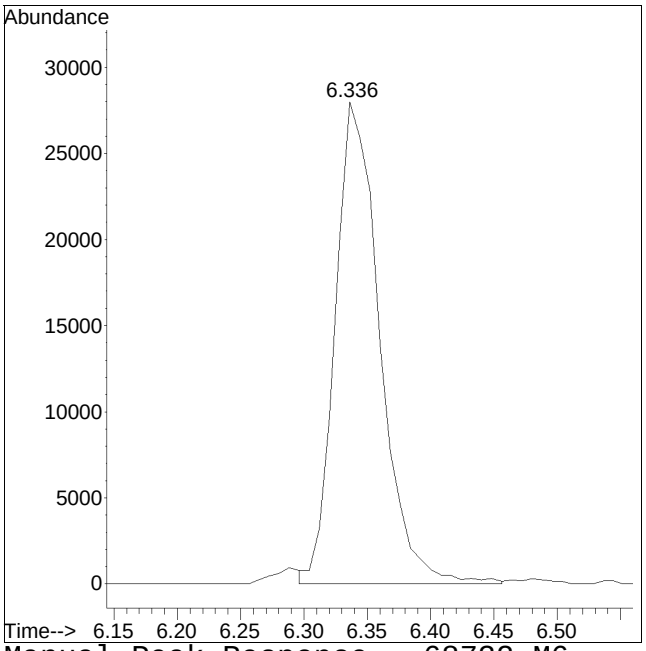
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 7:41 am

Compound #15: ethanol



Original Peak Response = 70197



Manual Peak Response = 68732 M6

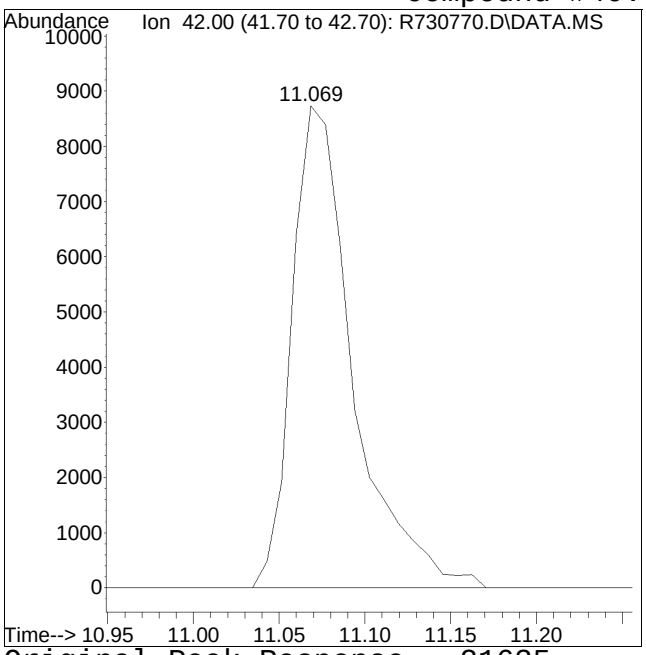
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

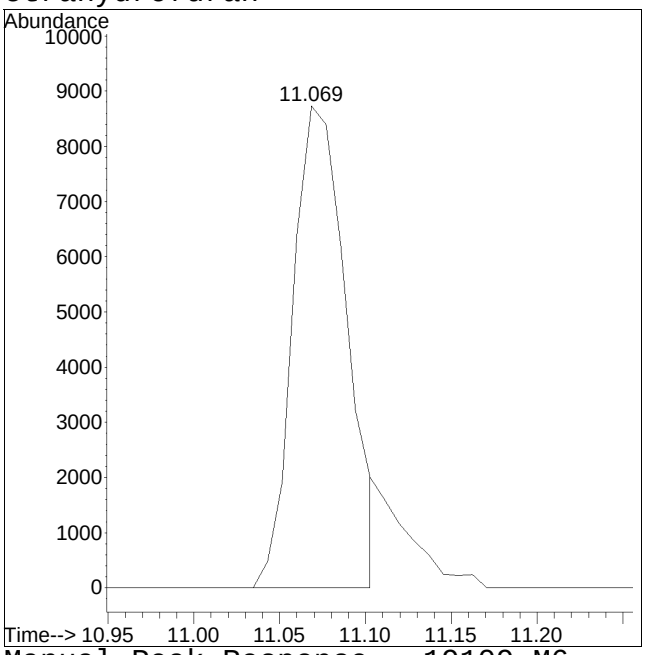
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730770.D
Date Inj'd : 3/28/2015 5:42 pm
Sample : ITO15-SIMSTD1.0

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 7:41 am

Compound #40: Tetrahydrofuran



Original Peak Response = 21635



Manual Peak Response = 19109 M6

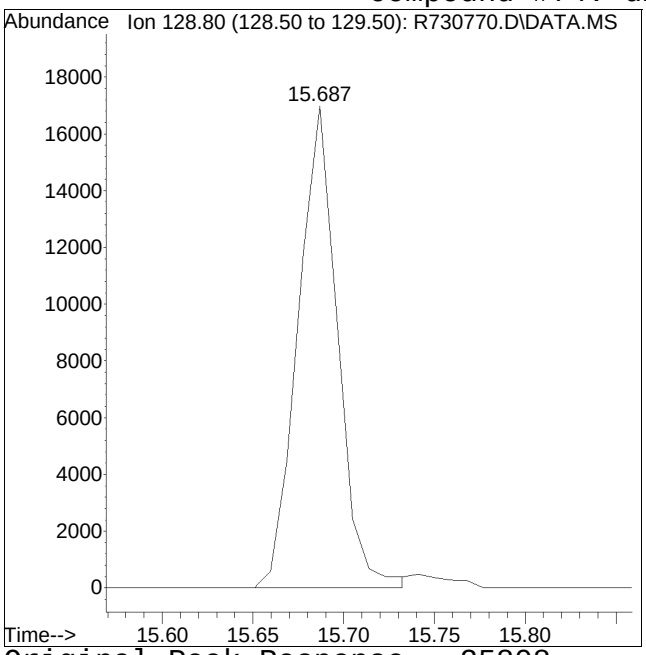
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

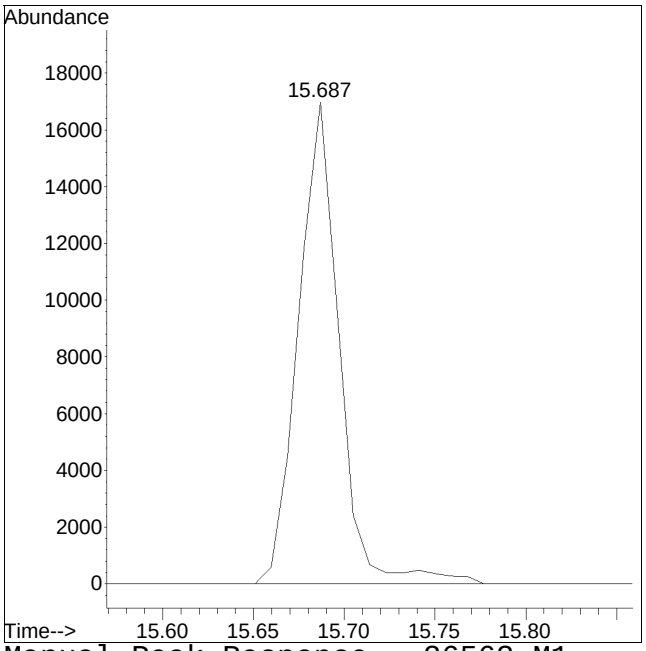
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730770.D
Date Inj'd : 3/28/2015 5:42 pm
Sample : ITO15-SIMSTD1.0

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 7:41 am

Compound #74: dibromochloromethane





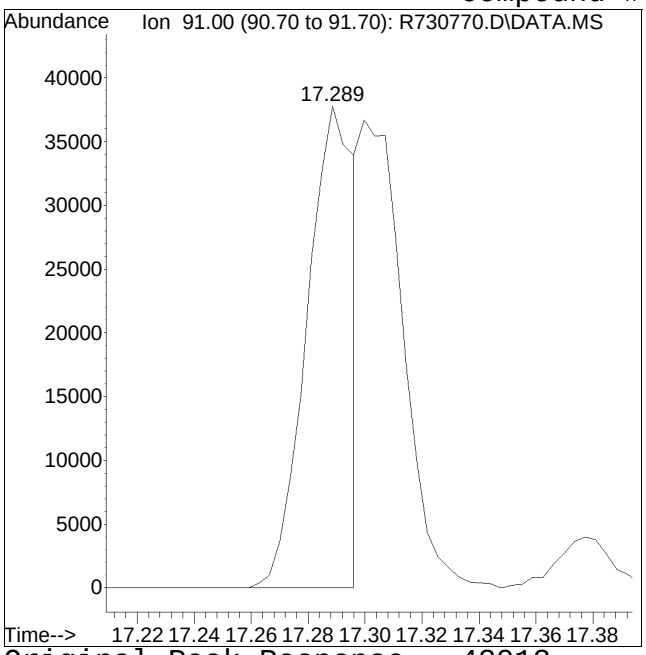
Original Peak Response = 25808 Manual Peak Response = 26563 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

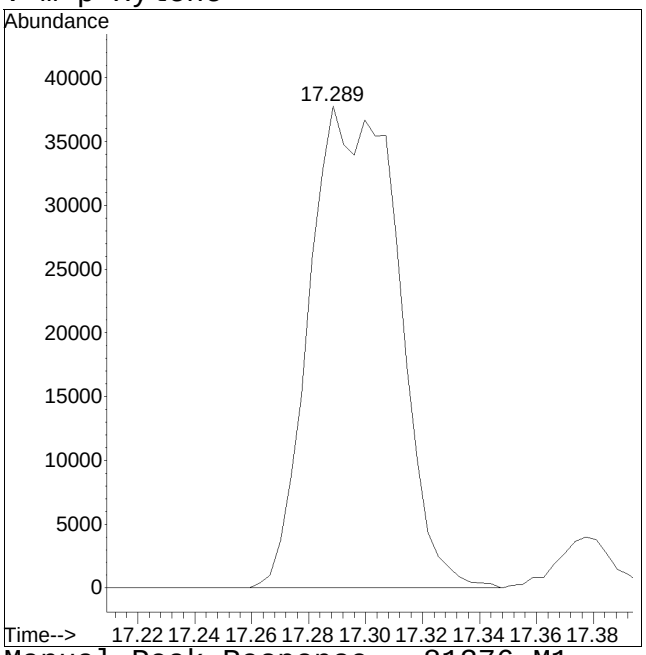
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 7:41 am

Compound #83: m+p-xylene



Original Peak Response = 43012



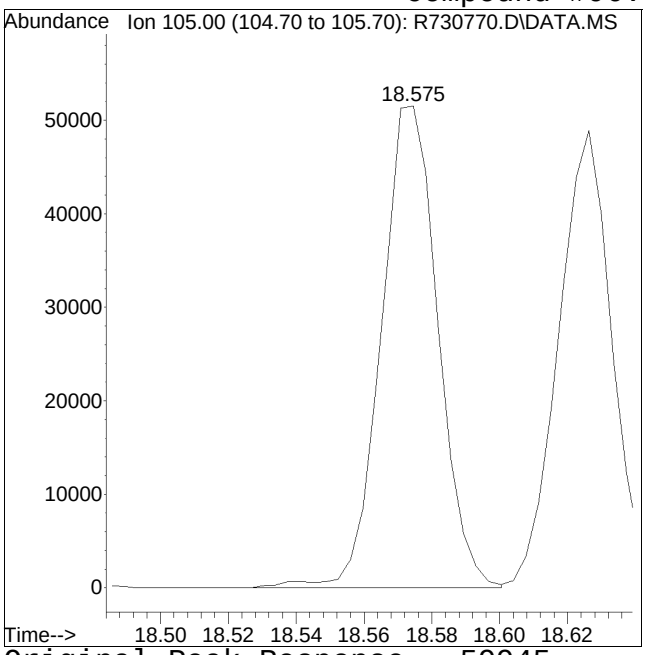
Manual Peak Response = 81376 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

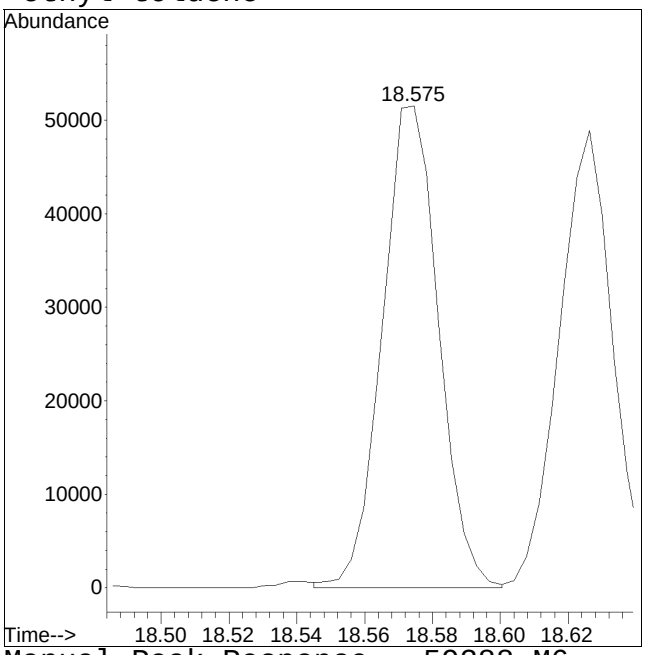
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 7:41 am

Compound #96: 4-ethyl toluene



Original Peak Response = 59945



Manual Peak Response = 59388 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 07:53:38 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.465	49	170278	10.000	ppbV	0.00
Standard Area = 171708			Recovery = 99.17%			
43) 1,4-difluorobenzene	12.546	114	281124	10.000	ppbV	0.00
Standard Area = 281554			Recovery = 99.85%			
67) chlorobenzene-D5	16.834	54	98834	10.000	ppbV	0.00
Standard Area = 105394			Recovery = 93.78%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.290	65	131886	9.703	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.03%			
69) toluene-D8	15.181	98	316386	10.332	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.32%			
90) bromofluorobenzene	18.002	95	200422	9.775	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.75%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.705	51	152126	5.091	ppbV	97
3) propylene	4.734	41	79342	5.070	ppbV	97
4) propane	4.596	29	70351M3	3.767	ppbV	
5) dichlorodifluoromethane	4.833	85	114043	4.445	ppbV	100
6) chloromethane	5.059	50	77904	5.181	ppbV	98
7) Freon-114	5.207	85	167361	4.792	ppbV	99
8) methanol	5.296	31	169966M4	24.969	ppbV	
9) vinyl chloride	5.365	62	65213	4.919	ppbV	97
10) 1,3-butadiene	5.552	54	55544M6	4.864	ppbV	
11) butane	5.631	43	135349	4.895	ppbV	99
12) acetaldehyde	5.227	29	285921	24.519	ppbV	99
13) bromomethane	5.913	94	56673	5.007	ppbV	99
14) chloroethane	6.152	64	29206	4.849	ppbV	95
15) ethanol	6.328	31	353942	24.369	ppbV	98
16) dichlorofluoromethane	6.288	67	136975	4.946	ppbV	99
17) vinyl bromide	6.600	106	57043	4.927	ppbV	100
18) acrolein	6.752	56	29542	4.949	ppbV	96
19) acetone	6.920	43	686715	25.220	ppbV	98
20) acetonitrile	6.584	41	81690	4.914	ppbV	96
21) trichlorofluoromethane	7.136	101	188809	5.056	ppbV	100
22) isopropyl alcohol	7.255	45	150042	4.996	ppbV	99
23) acrylonitrile	7.495	53	56656	5.031	ppbV	97
24) pentane	7.575	43	165942	5.088	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 07:53:38 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	7.607	31	124107	4.978	ppbV	99
26) 1,1-dichloroethene	7.903	61	114844	4.943	ppbV	99
27) tertiary butyl alcohol	7.991	59	131622	4.822	ppbV	97
28) methylene chloride	8.055	49	111524	5.219	ppbV	97
29) 3-chloropropene	8.191	41	118148	4.954	ppbV	98
30) carbon disulfide	8.367	76	167803	4.916	ppbV	99
31) Freon 113	8.367	101	128991	5.009	ppbV	98
32) trans-1,2-dichloroethene	9.138	61	105001	4.944	ppbV	99
33) 1,1-dichloroethane	9.356	63	122476	5.030	ppbV	99
34) MTBE	9.434	73	156416	4.999	ppbV	98
35) vinyl acetate	9.536	43	139467	4.694	ppbV	100
36) 2-butanone	9.802	43	206054	5.066	ppbV	99
37) cis-1,2-dichloroethene	10.287	61	90483	4.950	ppbV	98
38) Ethyl Acetate	10.540	61	20479	4.891	ppbV	62
39) chloroform	10.616	83	129223	5.010	ppbV	100
40) Tetrahydrofuran	11.043	42	102581M6	4.973	ppbV	
41) 2,2-dichloropropane	10.634	77	106729	5.005	ppbV	96
42) 1,2-dichloroethane	11.410	62	103586	5.116	ppbV	99
44) hexane	10.522	57	104715	5.042	ppbV	78
45) diisopropyl ether	10.522	87	40818	4.987	ppbV	83
46) tert-butyl ethyl ether	11.103	59	191186	4.981	ppbV	100
48) 1,1,1-trichloroethane	11.676	97	128997	4.571	ppbV	100
49) 1,1-dichloropropene	12.018	75	76949	4.987	ppbV	98
50) benzene	12.174	78	135723	4.980	ppbV	99
51) thiophene	12.319	84	97754	4.954	ppbV	99
52) carbon tetrachloride	12.339	117	126207	5.067	ppbV	96
53) cyclohexane	12.474	56	90632	5.072	ppbV	99
54) tert-amyl methyl ether	12.816	73	164359	4.968	ppbV	98
55) dibromomethane	13.033	93	86394	4.977	ppbV	99
56) 1,2-dichloropropane	13.064	63	79356	4.882	ppbV	97
57) bromodichloromethane	13.272	83	160796	4.979	ppbV	97
58) 1,4-dioxane	13.323	88	43642	4.919	ppbV	85
59) trichloroethene	13.313	130	96280	5.028	ppbV	97
60) 2,2,4-trimethylpentane	13.344	57	417074	4.983	ppbV	99
61) methyl methacrylate	13.520	41	124683	4.740	ppbV	99
62) heptane	13.624	43	184133	4.965	ppbV	99
63) cis-1,3-dichloropropene	14.261	75	94742	4.711	ppbV	96
64) 4-methyl-2-pentanone	14.303	43	263518	4.945	ppbV	97
65) trans-1,3-dichloropropene	14.819	75	93840	4.581	ppbV	98
66) 1,1,2-trichloroethane	15.009	97	81386	4.910	ppbV	98

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 07:53:38 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	15.280	91	236415	5.190	ppbV		97
70) 2-methylthiophene	15.343	97	194940	5.083	ppbV		98
71) 1,3-dichloropropane	15.298	76	108524	5.205	ppbV		97
72) 2-hexanone	15.515	43	252773	5.207	ppbV		97
73) 3-methylthiophene	15.343	97	194940	5.083	ppbV		98
74) dibromochloromethane	15.687	129	159892	4.992	ppbV		100
75) 1,2-dibromoethane	15.913	107	125771	5.018	ppbV		99
76) butyl acetate	16.076	73	22079	4.842	ppbV		97
77) octane	16.157	85	61953	5.197	ppbV		99
78) tetrachloroethene	16.310	166	108275	5.016	ppbV		98
79) 1,1,1,2-tetrachloroethane	16.853	131	114670	5.167	ppbV		98
80) chlorobenzene	16.871	112	182781	5.057	ppbV		99
81) ethylbenzene	17.159	91	298899	5.041	ppbV		99
82) 2-ethylthiophene	17.193	97	206761	4.983	ppbV		99
83) m+p-xylene	17.303	91	468862	10.015	ppbV		98
84) bromoform	17.377	173	130728	4.777	ppbV		98
85) styrene	17.577	104	166581	4.869	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.654	83	174038	5.045	ppbV		97
87) o-xylene	17.658	91	251213	5.042	ppbV		98
88) 1,2,3-trichloropropane	17.754	75	130888	5.113	ppbV		98
89) nonane	17.795	43	285930	5.250	ppbV		99
91) isopropylbenzene	18.094	105	357692	5.156	ppbV		99
92) bromobenzene	18.176	77	152110	4.954	ppbV		99
93) 2-chlorotoluene	18.453	126	85639	4.979	ppbV	#	64
94) n-propylbenzene	18.467	120	92463	4.996	ppbV		98
95) 4-chlorotoluene	18.504	91	230095	4.924	ppbV		99
96) 4-ethyl toluene	18.571	105	356761M6	4.926	ppbV		
97) 1,3,5-trimethylbenzene	18.623	105	308776	5.093	ppbV		99
98) tert-butylbenzene	18.930	119	359044	5.228	ppbV		99
99) 1,2,4-trimethylbenzene	18.930	105	306026	5.023	ppbV		100
100) decane	18.971	57	255521	5.226	ppbV		98
101) Benzyl Chloride	19.044	91	167767	4.451	ppbV		100
102) 1,3-dichlorobenzene	19.059	146	170113	4.844	ppbV		99
103) 1,4-dichlorobenzene	19.107	146	167840	4.817	ppbV		98
104) sec-butylbenzene	19.126	105	487555	5.161	ppbV		100
105) 1,2,3-trimethylbenzene	19.247	105	269904	5.104	ppbV		100
106) p-isopropyltoluene	19.236	119	427736	5.105	ppbV		100
107) 1,2-dichlorobenzene	19.369	146	168451	4.870	ppbV		99
108) n-butylbenzene	19.553	91	358590	4.974	ppbV		99
109) indan	19.410	117	254353	5.020	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 07:53:38 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

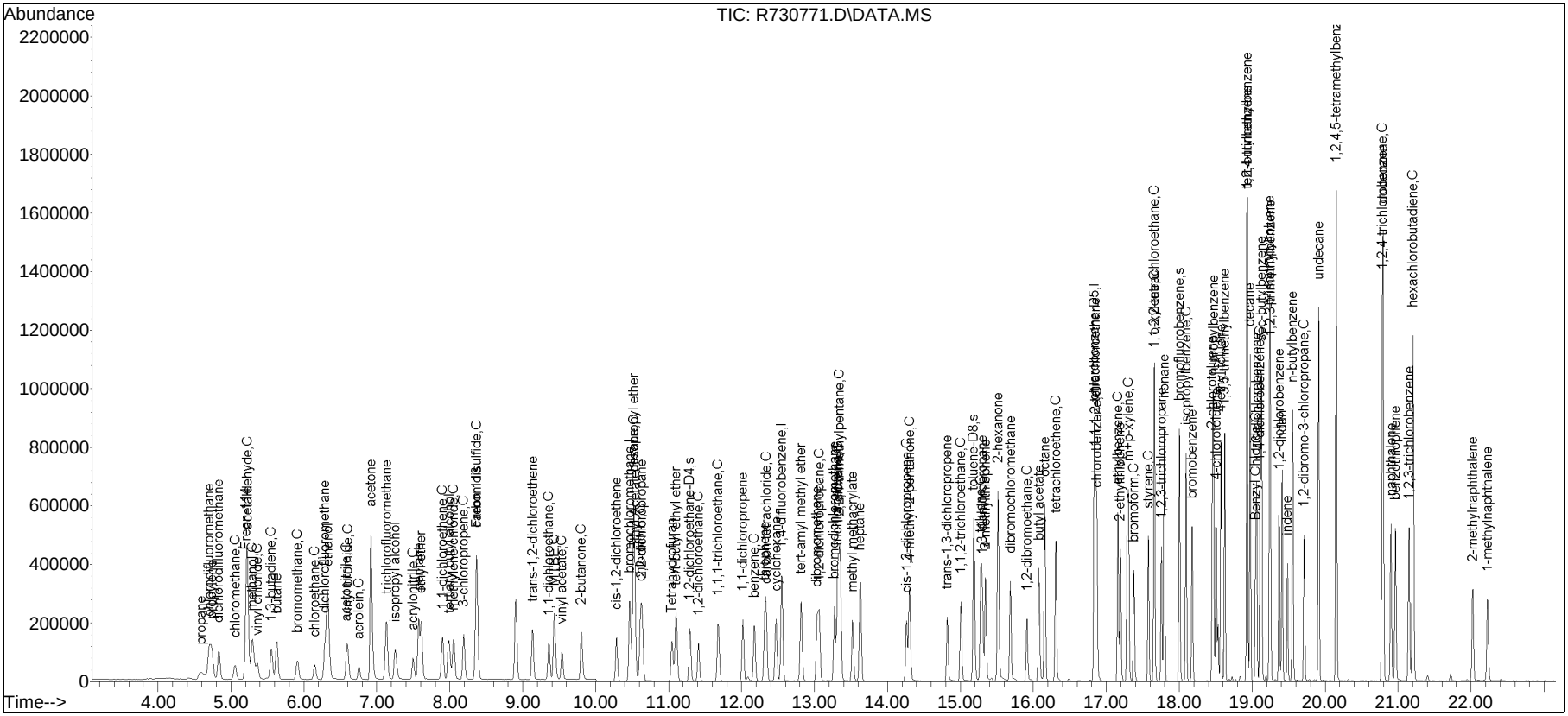
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.483	115	140215	4.807	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.712	75	79841	4.750	ppbV	98
112) undecane	19.911	57	307419	5.088	ppbV	98
113) 1,2,4,5-tetramethylben...	20.151	119	647575	5.036	ppbV	98
114) dodecane	20.792	57	344321	5.071	ppbV	99
115) 1,2,4-trichlorobenzene	20.784	180	137962	4.758	ppbV	98
116) naphthalene	20.904	128	345363	4.799	ppbV	99
117) 1,2,3-trichlorobenzene	21.152	180	137544	4.782	ppbV	97
118) benzothiophene	20.964	134	298771	4.741	ppbV	98
119) hexachlorobutadiene	21.203	225	181790	4.977	ppbV	95
120) 2-methylnaphthalene	22.026	142	148861	4.586	ppbV	100
121) 1-methylnaphthalene	22.223	142	131445	4.668	ppbV	96

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

Sub List : Default - All compounds listed\150328T_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

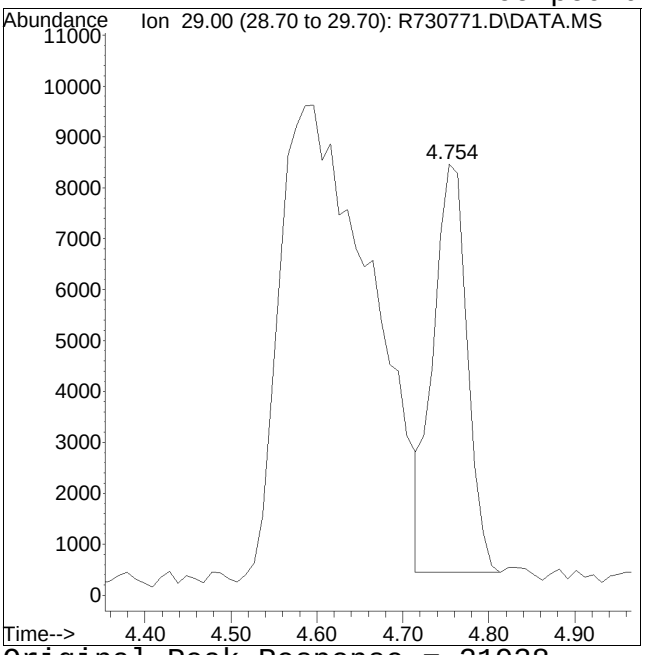
Quant Time: Mar 29 07:53:38 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

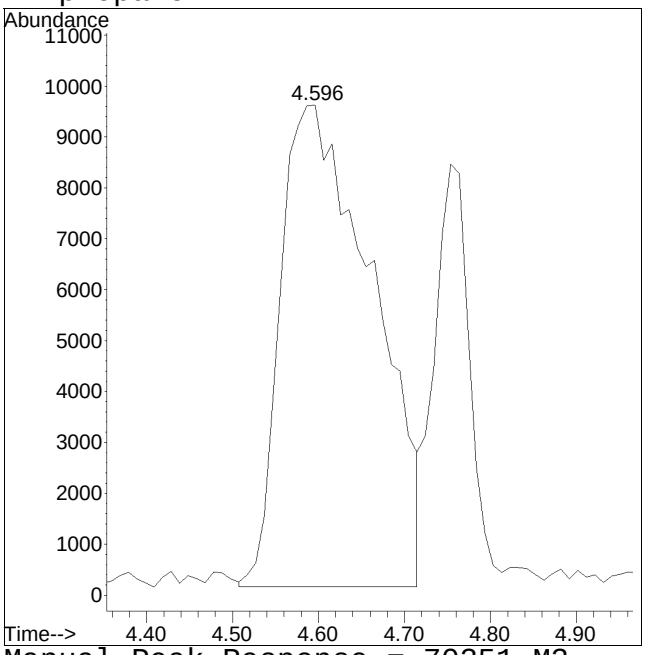


Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730771.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:14 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD5.0 Quant Date : 3/29/2015 7:41 am

Compound #4: propane





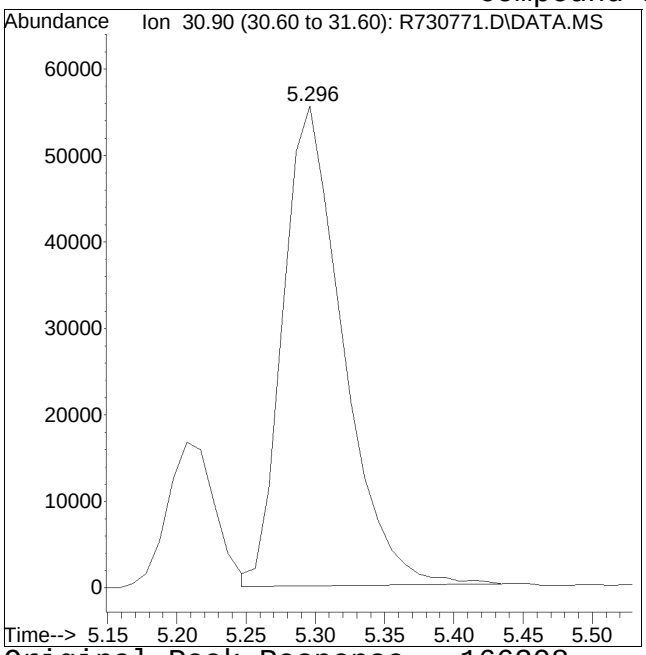
Original Peak Response = 21938 Manual Peak Response = 70351 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

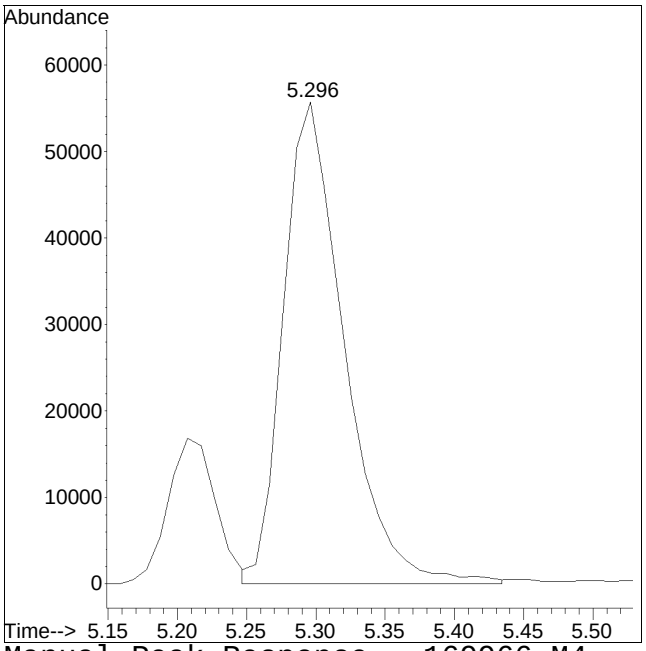
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730771.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:14 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD5.0 Quant Date : 3/29/2015 7:41 am

Compound #8: methanol



Original Peak Response = 166308



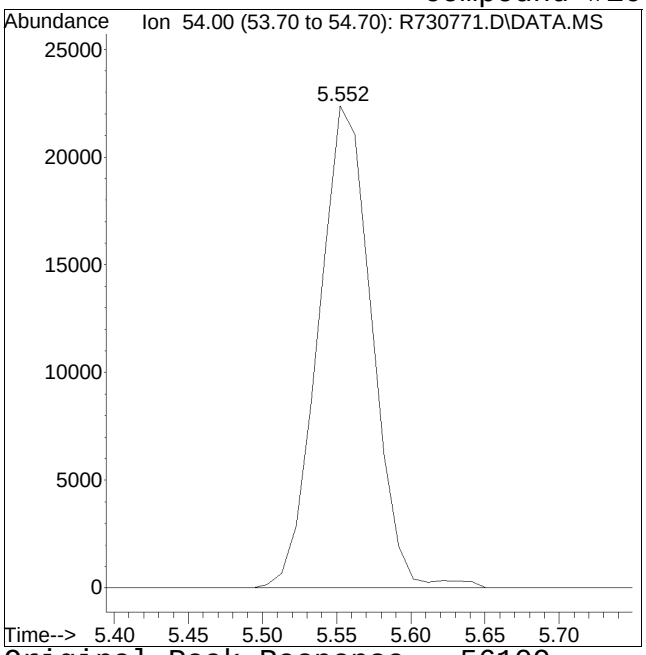
Manual Peak Response = 169966 M4

M4 = Poor automated baseline construction.

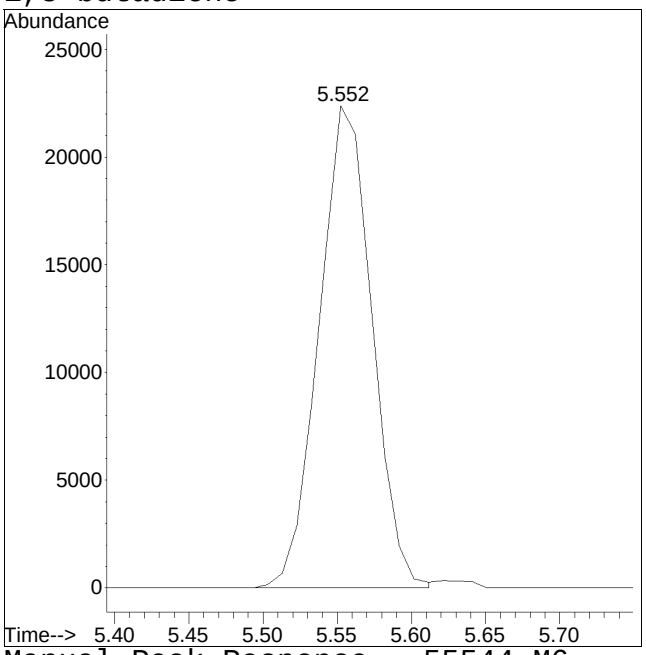
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730771.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:14 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD5.0 Quant Date : 3/29/2015 7:41 am

Compound #10: 1,3-butadiene



Original Peak Response = 56109



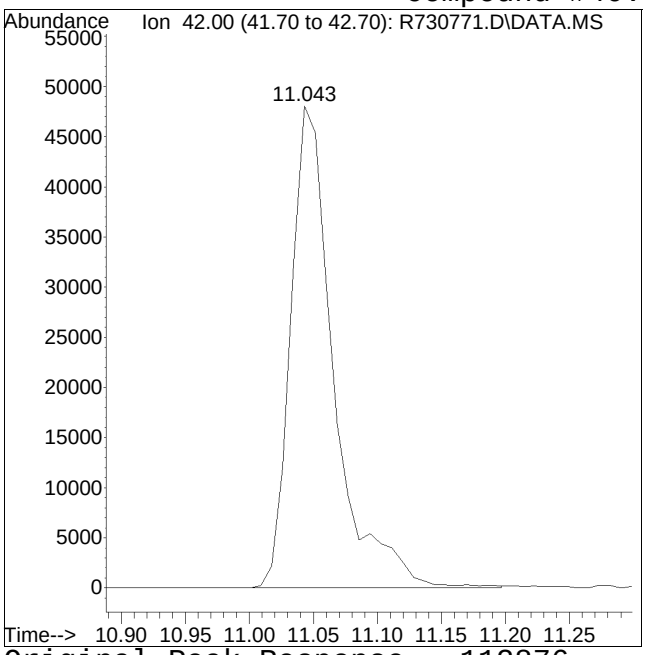
Manual Peak Response = 55544 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

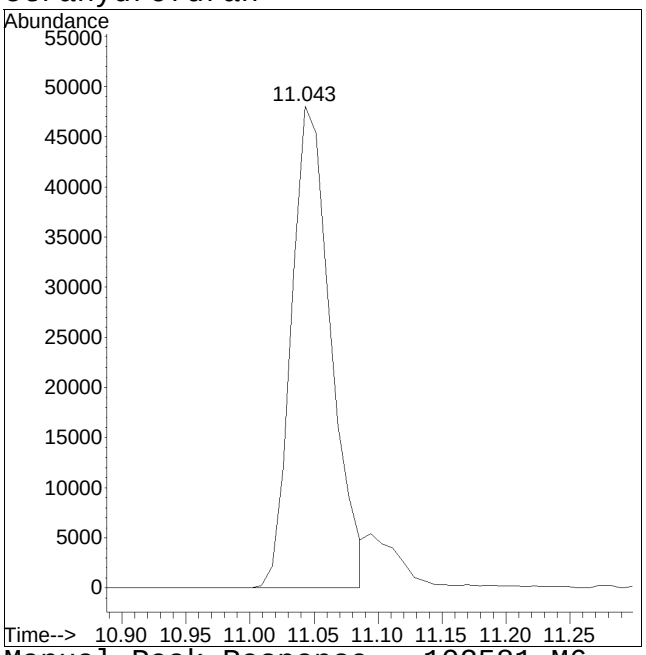
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730771.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:14 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD5.0 Quant Date : 3/29/2015 7:41 am

Compound #40: Tetrahydrofuran



Original Peak Response = 112876



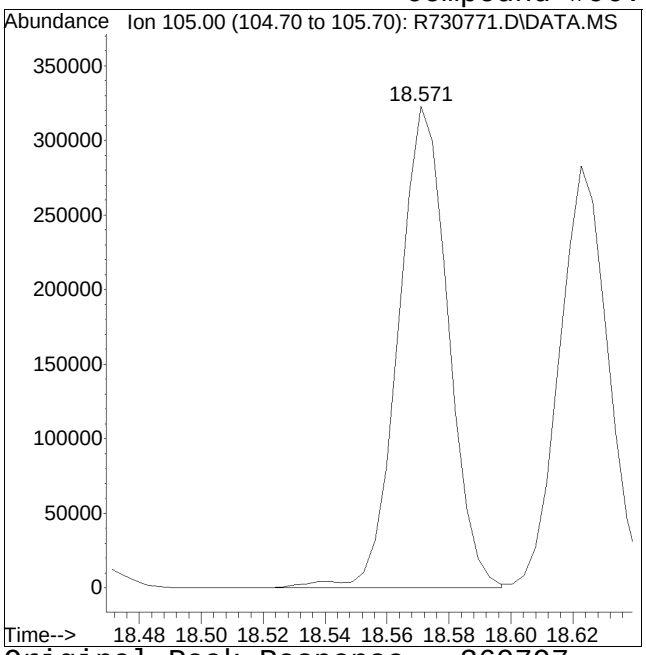
Manual Peak Response = 102581 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

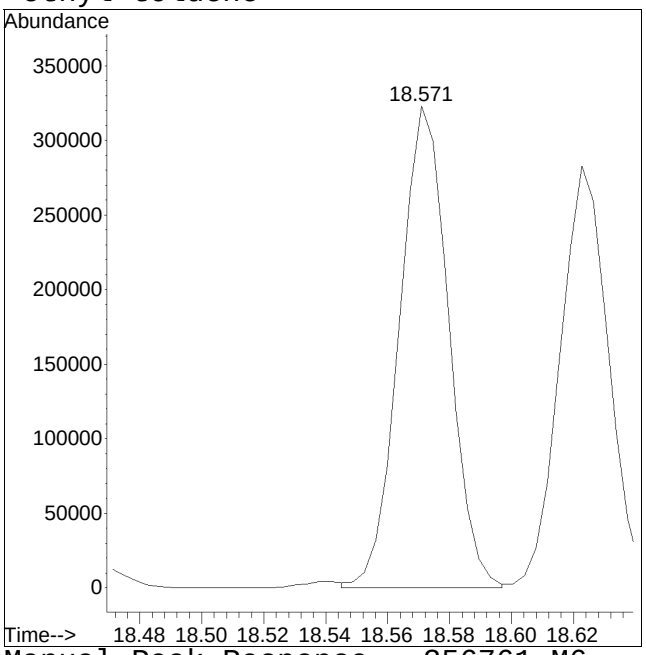
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730771.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:14 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD5.0 Quant Date : 3/29/2015 7:41 am

Compound #96: 4-ethyl toluene



Original Peak Response = 360797



Manual Peak Response = 356761 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 07:37:40 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 17 08:58:10 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.465	49	171708	10.000	ppbV	# 0.00
Standard Area = 171708			Recovery = 100.00%			
43) 1,4-difluorobenzene	12.546	114	281554	10.000	ppbV	#-0.01
Standard Area = 281554			Recovery = 100.00%			
67) chlorobenzene-D5	16.834	54	105394	10.000	ppbV	# 0.00
Standard Area = 105394			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.290	65	136137	11.698	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.98%			
69) toluene-D8	15.181	98	326543	8.150	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.50%			
90) bromofluorobenzene	18.002	95	218639	8.475	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.75%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.704	51	301311	11.988	ppbV	93
3) propylene	4.744	41	157812M6	11.846	ppbV	
4) propane	4.773	29	188309	13.021	ppbV	99
5) dichlorodifluoromethane	4.842	85	258742	12.482	ppbV	93
6) chloromethane	5.059	50	151624	11.433	ppbV	100
7) Freon-114	5.207	85	352186	10.136	ppbV	96
8) methanol	5.286	31	343214M4	60.872	ppbV	
9) vinyl chloride	5.365	62	133675	9.598	ppbV	91
10) 1,3-butadiene	5.552	54	115142	10.949	ppbV	83
11) butane	5.631	43	278850	11.532	ppbV	97
12) acetaldehyde	5.227	29	587964	58.406	ppbV	97
13) bromomethane	5.912	94	114134	11.438	ppbV	96
14) chloroethane	6.144	64	60734	9.357	ppbV	100
15) ethanol	6.320	31	732323	61.249	ppbV	97
16) dichlorofluoromethane	6.288	67	279243	8.983	ppbV #	98
17) vinyl bromide	6.600	106	116757	8.555	ppbV	96
18) acrolein	6.752	56	60196	10.872	ppbV	90
19) acetone	6.912	43	1372862	56.301	ppbV	92
20) acetonitrile	6.584	41	167646	11.937	ppbV	98
21) trichlorofluoromethane	7.127	101	376608	9.515	ppbV	100
22) isopropyl alcohol	7.239	45	302820	10.867	ppbV	100
23) acrylonitrile	7.495	53	113554	10.677	ppbV	95
24) pentane	7.575	43	328914	11.325	ppbV #	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 07:37:40 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 17 08:58:10 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	7.607	31	251416	11.788	ppbV		92
26) 1,1-dichloroethene	7.903	61	234267	9.860	ppbV		94
27) tertiary butyl alcohol	7.967	59	275267	9.573	ppbV	#	88
28) methylene chloride	8.055	49	215477	10.757	ppbV	#	81
29) 3-chloropropene	8.191	41	240504	11.353	ppbV		94
30) carbon disulfide	8.366	76	344221	8.139	ppbV	#	86
31) Freon 113	8.366	101	259685	8.575	ppbV		91
32) trans-1,2-dichloroethene	9.131	61	214168	9.416	ppbV		94
33) 1,1-dichloroethane	9.356	63	245553	9.301	ppbV		95
34) MTBE	9.427	73	315491	8.463	ppbV	#	86
35) vinyl acetate	9.536	43	299588	7.936	ppbV	#	95
36) 2-butanone	9.795	43	410170	11.042	ppbV	#	90
37) cis-1,2-dichloroethene	10.287	61	184340	9.563	ppbV		91
38) Ethyl Acetate	10.531	61	42222	9.321	ppbV	#	1
39) chloroform	10.615	83	260092	8.715	ppbV	#	94
40) Tetrahydrofuran	11.034	42	207997M6	11.015	ppbV		
41) 2,2-dichloropropane	10.634	77	215035	8.639	ppbV	#	78
42) 1,2-dichloroethane	11.409	62	204192	10.128	ppbV		96
44) hexane	10.521	57	207989	12.566	ppbV	#	68
45) diisopropyl ether	10.512	87	81982	10.783	ppbV	#	46
46) tert-butyl ethyl ether	11.094	59	384401	12.014	ppbV		95
48) 1,1,1-trichloroethane	11.676	97	282625	12.225	ppbV		91
49) 1,1-dichloropropene	12.018	75	154541	11.090	ppbV	#	79
50) benzene	12.173	78	272967	10.232	ppbV	#	82
51) thiophene	12.318	84	197625	11.428	ppbV	#	85
52) carbon tetrachloride	12.339	117	249438	11.609	ppbV		98
53) cyclohexane	12.474	56	178955	13.239	ppbV	#	83
54) tert-amyl methyl ether	12.805	73	331332	12.312	ppbV	#	87
55) dibromomethane	13.033	93	173862	11.824	ppbV	#	88
56) 1,2-dichloropropane	13.064	63	162809	12.343	ppbV		95
57) bromodichloromethane	13.271	83	323465M6	11.883	ppbV		
58) 1,4-dioxane	13.313	88	88852	11.670	ppbV		87
59) trichloroethene	13.313	130	191772	11.941	ppbV		96
60) 2,2,4-trimethylpentane	13.344	57	838270	13.711	ppbV		94
61) methyl methacrylate	13.520	41	263471	14.116	ppbV	#	83
62) heptane	13.623	43	371407	14.792	ppbV	#	95
63) cis-1,3-dichloropropene	14.261	75	201408	11.877	ppbV	#	86
64) 4-methyl-2-pentanone	14.295	43	533661	15.239	ppbV	#	92
65) trans-1,3-dichloropropene	14.819	75	205171	12.158	ppbV		88
66) 1,1,2-trichloroethane	15.009	97	166006	11.753	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 07:37:40 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 17 08:58:10 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	15.280	91	485720	8.850	ppbV		99
70) 2-methylthiophene	15.343	97	408995	8.328	ppbV	#	96
71) 1,3-dichloropropane	15.298	76	222350	8.978	ppbV	#	72
72) 2-hexanone	15.515	43	517700	12.380	ppbV	#	91
73) 3-methylthiophene	15.343	97	408995	8.328	ppbV	#	96
74) dibromochloromethane	15.687	129	341577	9.646	ppbV		99
75) 1,2-dibromoethane	15.913	107	267285	9.161	ppbV		99
76) butyl acetate	16.075	73	48625	9.287	ppbV	#	42
77) octane	16.157	85	127131	8.285	ppbV	#	54
78) tetrachloroethene	16.310	166	230187	7.637	ppbV	#	84
79) 1,1,1,2-tetrachloroethane	16.852	131	236643	9.187	ppbV		96
80) chlorobenzene	16.871	112	385468	8.821	ppbV		96
81) ethylbenzene	17.159	91	632304	9.236	ppbV		97
82) 2-ethylthiophene	17.192	97	442452	8.494	ppbV	#	95
83) m+p-xylene	17.303	91	998489	18.426	ppbV		98
84) bromoform	17.377	173	291799	7.785	ppbV		98
85) styrene	17.577	104	364815	9.149	ppbV		96
86) 1,1,2,2-tetrachloroethane	17.654	83	367851	9.067	ppbV		99
87) o-xylene	17.658	91	531304	9.436	ppbV		97
88) 1,2,3-trichloropropane	17.754	75	272983	9.291	ppbV	#	93
89) nonane	17.795	43	580724	12.155	ppbV	#	92
91) isopropylbenzene	18.094	105	739748	9.191	ppbV		98
92) bromobenzene	18.175	77	327413	9.000	ppbV		91
93) 2-chlorotoluene	18.456	126	183427	9.103	ppbV		80
94) n-propylbenzene	18.467	120	197366	9.248	ppbV		99
95) 4-chlorotoluene	18.504	91	498285	9.398	ppbV		99
96) 4-ethyl toluene	18.571	105	772375M6	9.481	ppbV		
97) 1,3,5-trimethylbenzene	18.622	105	646509	9.315	ppbV		99
98) tert-butylbenzene	18.930	119	732354	9.469	ppbV		100
99) 1,2,4-trimethylbenzene	18.930	105	649724	9.889	ppbV		96
100) decane	18.971	57	521380	11.265	ppbV	#	86
101) Benzyl Chloride	19.044	91	401965	9.085	ppbV		97
102) 1,3-dichlorobenzene	19.059	146	374474	8.463	ppbV		95
103) 1,4-dichlorobenzene	19.107	146	371539	8.551	ppbV		96
104) sec-butylbenzene	19.125	105	1007421	9.649	ppbV		99
105) 1,2,3-trimethylbenzene	19.247	105	563870	9.271	ppbV		95
106) p-isopropyltoluene	19.236	119	893404	9.689	ppbV		100
107) 1,2-dichlorobenzene	19.369	146	368857	8.664	ppbV		97
108) n-butylbenzene	19.553	91	768728	9.796	ppbV		99
109) indan	19.409	117	540297	8.752	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 07:37:40 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 17 08:58:10 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

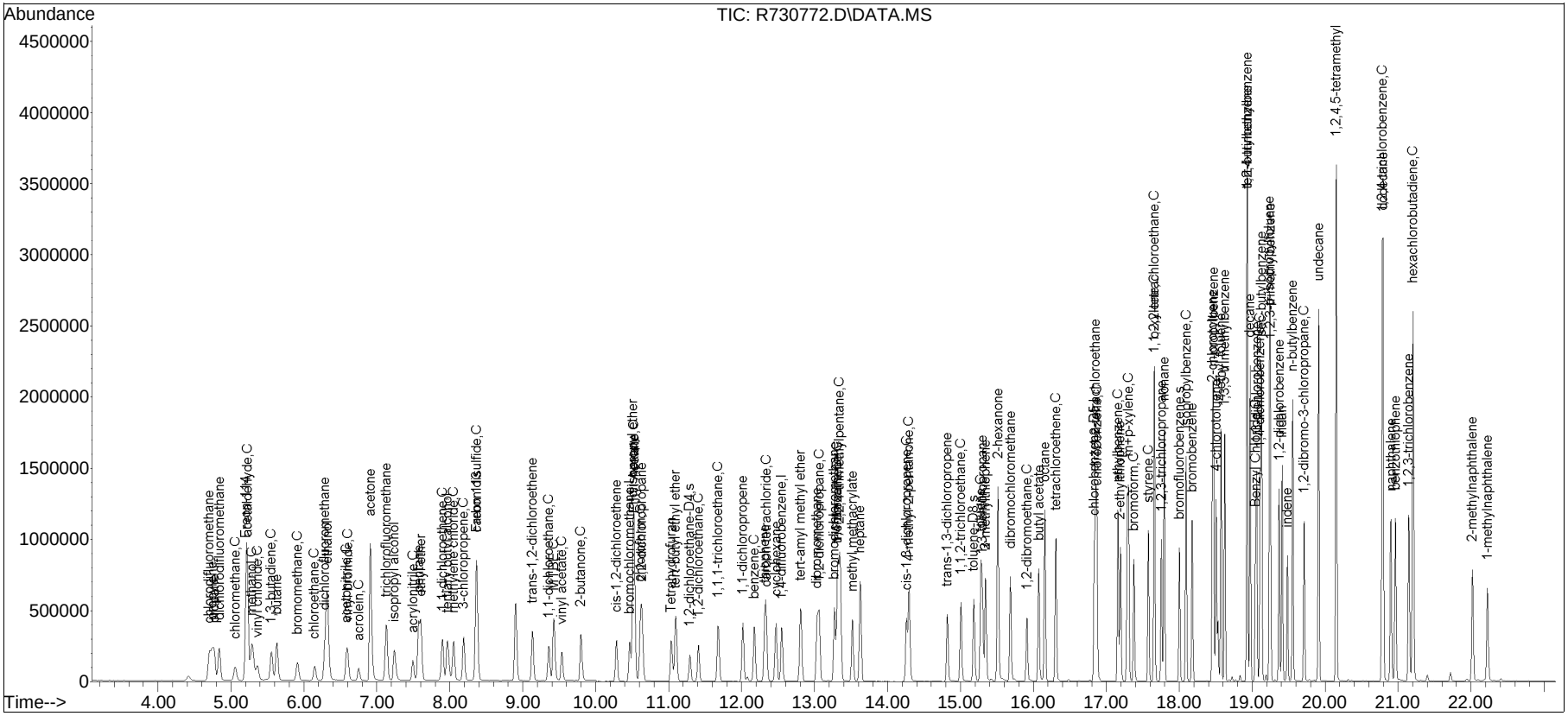
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.483	115	311071	7.916	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.712	75	179252	10.346	ppbV	82
112) undecane	19.911	57	644270	12.429	ppbV	90
113) 1,2,4,5-tetramethylben...	20.151	119	1371315	11.117	ppbV	99
114) dodecane	20.792	57	724031	13.786	ppbV	89
115) 1,2,4-trichlorobenzene	20.783	180	309191	8.182	ppbV #	91
116) naphthalene	20.903	128	767358	10.323	ppbV	99
117) 1,2,3-trichlorobenzene	21.143	180	306724	8.028	ppbV #	88
118) benzothiophene	20.963	134	672073	10.367	ppbV	99
119) hexachlorobutadiene	21.203	225	389525	7.383	ppbV #	90
120) 2-methylnaphthalene	22.017	142	346151	11.962	ppbV	97
121) 1-methylnaphthalene	22.223	142	300265	9.964	ppbV	98

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

Sub List : Default - All compounds listed\150328T_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771893
ALS Vial : 7 Sample Multiplier: 1

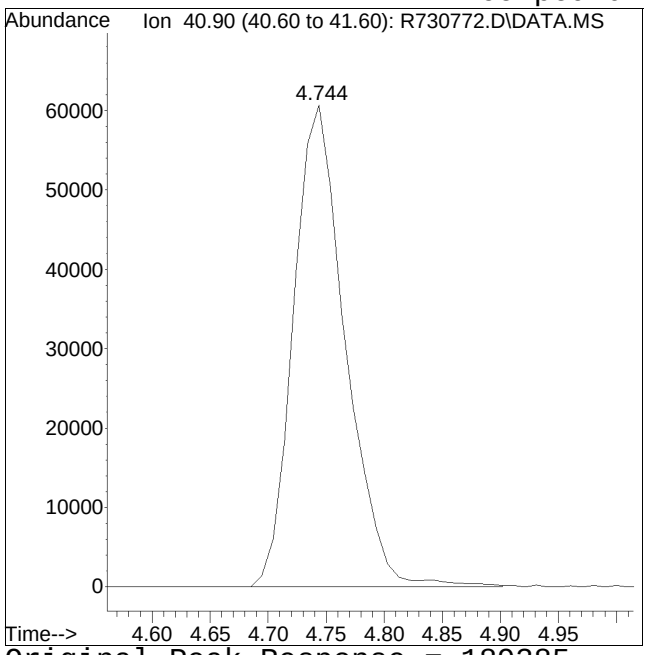
Quant Time: Mar 29 07:37:40 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 17 08:58:10 2015
Response via : Initial Calibration



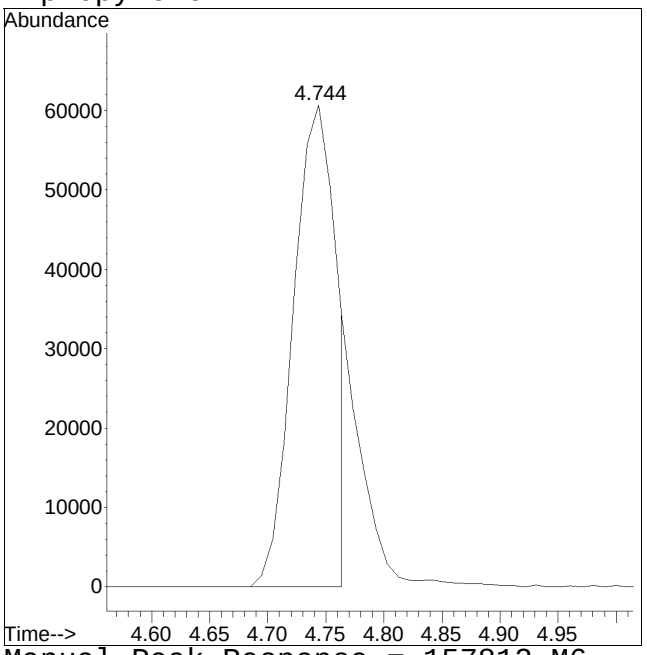
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730772.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:48 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD10.0 Quant Date : 3/29/2015 7:36 am

Compound #3: propylene



Original Peak Response = 189385



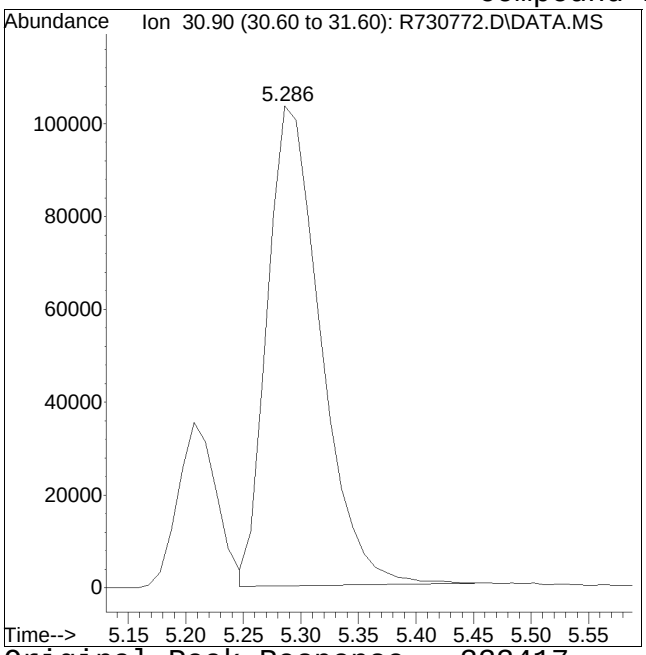
Manual Peak Response = 157812 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

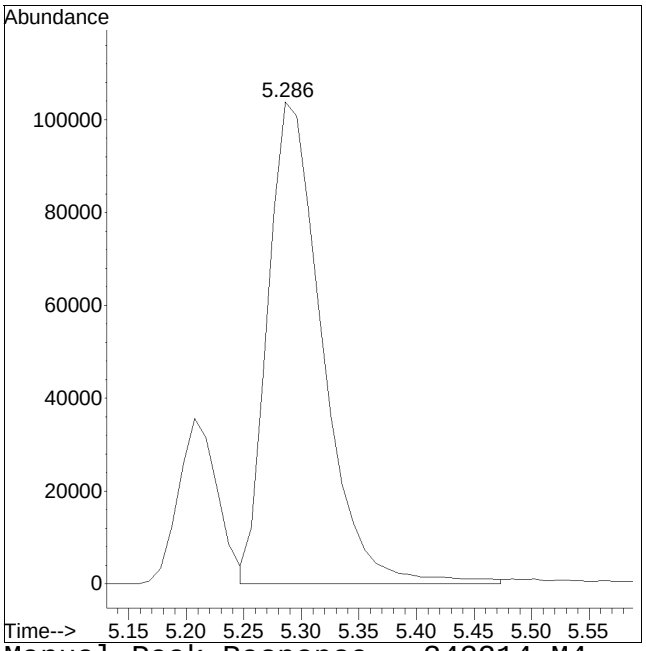
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730772.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:48 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD10.0 Quant Date : 3/29/2015 7:36 am

Compound #8: methanol



Original Peak Response = 333417



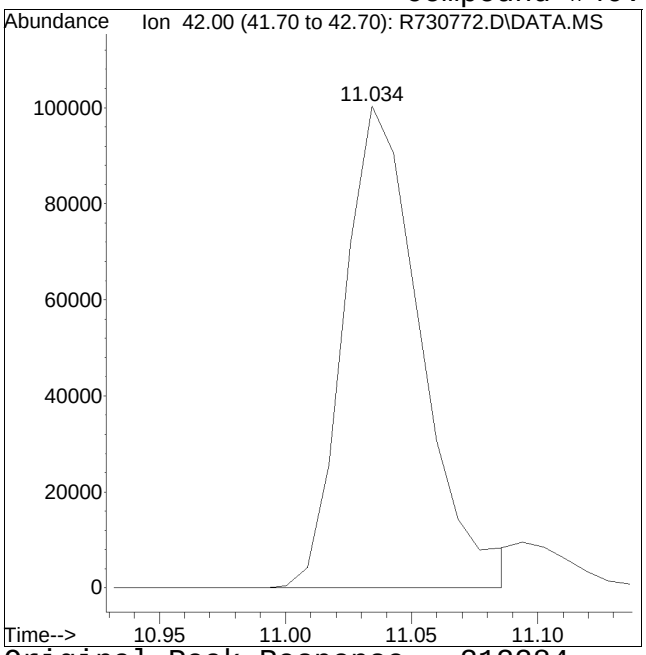
Manual Peak Response = 343214 M4

M4 = Poor automated baseline construction.

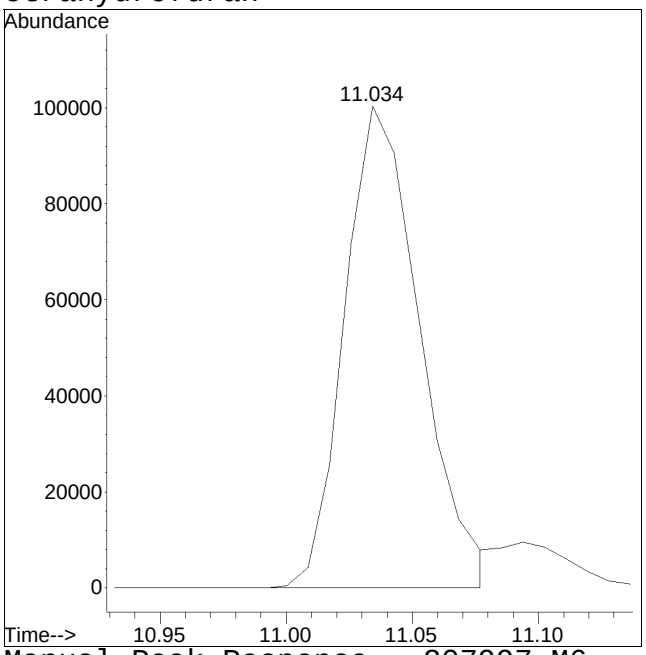
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730772.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:48 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD10.0 Quant Date : 3/29/2015 7:36 am

Compound #40: Tetrahydrofuran



Original Peak Response = 212284



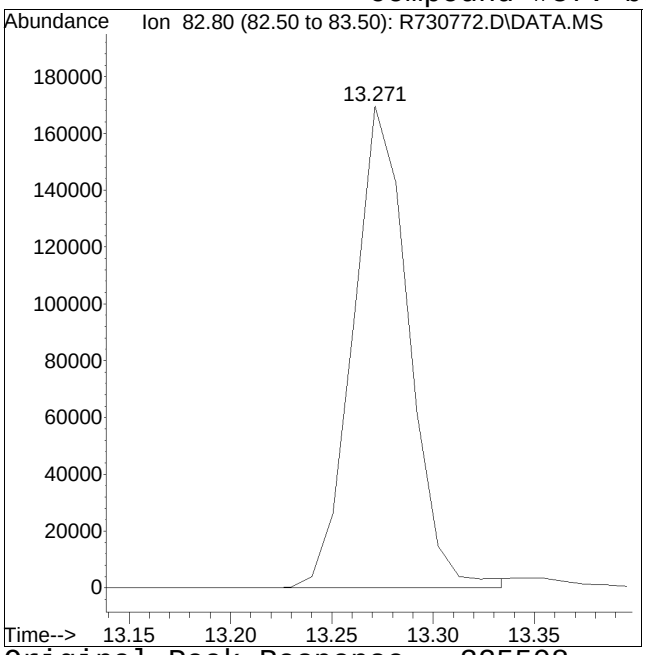
Manual Peak Response = 207997 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

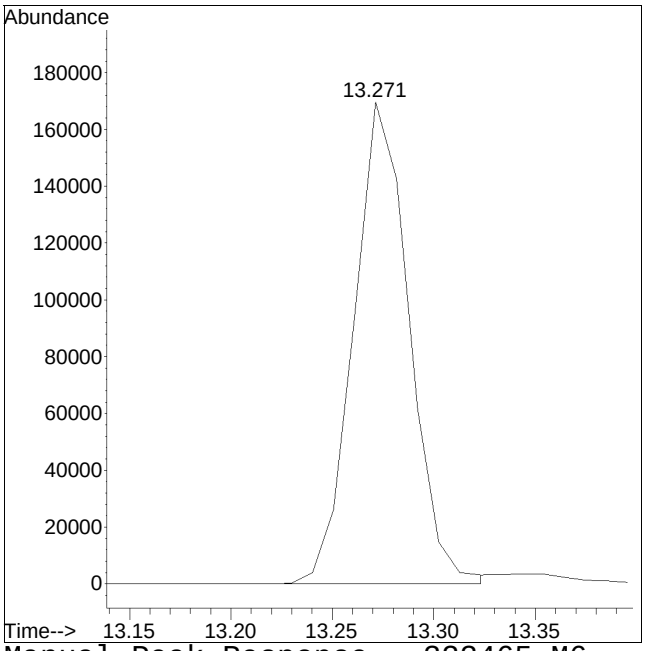
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730772.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:48 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD10.0 Quant Date : 3/29/2015 7:36 am

Compound #57: bromodichloromethane



Original Peak Response = 325508



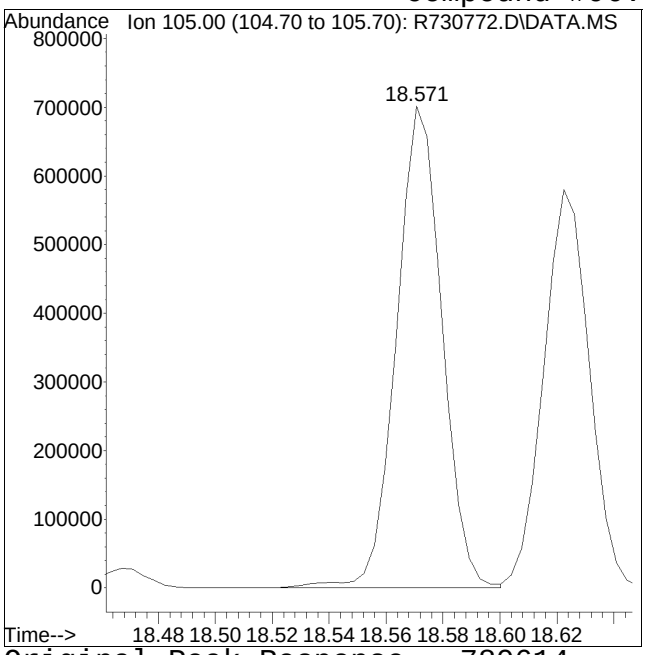
Manual Peak Response = 323465 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

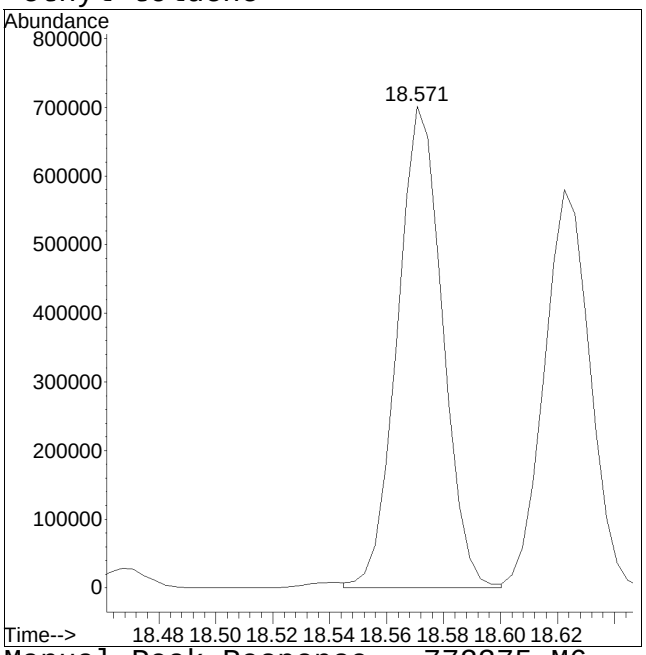
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730772.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:48 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD10.0 Quant Date : 3/29/2015 7:36 am

Compound #96: 4-ethyl toluene



Original Peak Response = 780614



Manual Peak Response = 772375 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:55:23 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.465	49	180065	10.000	ppbV	0.00
Standard Area = 171708			Recovery = 104.87%			
43) 1,4-difluorobenzene	12.557	114	362737	10.000	ppbV	0.01
Standard Area = 281554			Recovery = 128.83%			
67) chlorobenzene-D5	16.834	54	112955	10.000	ppbV	0.00
Standard Area = 105394			Recovery = 107.17%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.290	65	137563	7.843	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 78.43%			
69) toluene-D8	15.181	98	343569	9.817	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.17%			
90) bromofluorobenzene	18.002	95	240479	10.263	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.63%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.704	51	622401	19.698	ppbV	99
3) propylene	4.744	41	329031M6	19.882	ppbV	
4) propane	4.773	29	393210M4	19.912	ppbV	
5) dichlorodifluoromethane	4.842	85	515800	19.010	ppbV	100
6) chloromethane	5.059	50	314262	19.764	ppbV	98
7) Freon-114	5.207	85	690816	18.705	ppbV	98
8) methanol	5.286	31	689941	95.847	ppbV	97
9) vinyl chloride	5.365	62	278209	19.846	ppbV	99
10) 1,3-butadiene	5.552	54	237148M6	19.640	ppbV	
11) butane	5.631	43	573183	19.601	ppbV	99
12) acetaldehyde	5.227	29	1201592	97.440	ppbV	97
13) bromomethane	5.912	94	237559	19.848	ppbV	97
14) chloroethane	6.152	64	121909	19.141	ppbV	99
15) ethanol	6.328	31	1494702	97.316	ppbV	97
16) dichlorofluoromethane	6.288	67	572133	19.538	ppbV	99
17) vinyl bromide	6.600	106	247015	20.174	ppbV	94
18) acrolein	6.752	56	125963	19.954	ppbV	96
19) acetone	6.912	43	2873729	99.805	ppbV	100
20) acetonitrile	6.584	41	343205	19.522	ppbV	100
21) trichlorofluoromethane	7.127	101	777984	19.699	ppbV	100
22) isopropyl alcohol	7.239	45	635664	20.017	ppbV	100
23) acrylonitrile	7.495	53	243888	20.481	ppbV	97
24) pentane	7.575	43	693771	20.114	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:55:23 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	7.599	31	517659	19.634	ppbV		98
26) 1,1-dichloroethene	7.903	61	488845	19.899	ppbV		98
27) tertiary butyl alcohol	7.967	59	586280	20.310	ppbV		98
28) methylene chloride	8.055	49	449893	19.910	ppbV		98
29) 3-chloropropene	8.191	41	514592	20.403	ppbV		97
30) carbon disulfide	8.366	76	727620	20.157	ppbV		99
31) Freon 113	8.366	101	545165	20.019	ppbV		99
32) trans-1,2-dichloroethene	9.131	61	451996	20.125	ppbV		100
33) 1,1-dichloroethane	9.356	63	514257	19.971	ppbV		100
34) MTBE	9.427	73	671644	20.301	ppbV		99
35) vinyl acetate	9.536	43	719508	22.902	ppbV		99
36) 2-butanone	9.796	43	852287	19.815	ppbV		100
37) cis-1,2-dichloroethene	10.287	61	384432	19.887	ppbV		97
38) Ethyl Acetate	10.540	61	85335	19.273	ppbV	#	47
39) chloroform	10.616	83	542294	19.882	ppbV		99
40) Tetrahydrofuran	11.035	42	433673	19.882	ppbV		98
41) 2,2-dichloropropane	10.634	77	452215	20.054	ppbV		98
42) 1,2-dichloroethane	11.410	62	421176	19.669	ppbV		99
44) hexane	10.522	57	431364	16.098	ppbV		95
45) diisopropyl ether	10.522	87	170380	16.131	ppbV		92
46) tert-butyl ethyl ether	11.094	59	812468	16.406	ppbV		99
48) 1,1,1-trichloroethane	11.676	97	579609	15.918	ppbV		99
49) 1,1-dichloropropene	12.018	75	320161	16.080	ppbV		97
50) benzene	12.174	78	572256	16.272	ppbV		99
51) thiophene	12.319	84	412551	16.203	ppbV		97
52) carbon tetrachloride	12.339	117	515245	16.033	ppbV		97
53) cyclohexane	12.474	56	372254	16.146	ppbV		97
54) tert-amyl methyl ether	12.805	73	716009	16.774	ppbV		98
55) dibromomethane	13.044	93	362200	16.170	ppbV		97
56) 1,2-dichloropropane	13.064	63	342340	16.321	ppbV		99
57) bromodichloromethane	13.282	83	693029	16.630	ppbV		99
58) 1,4-dioxane	13.313	88	193095	16.868	ppbV		99
59) trichloroethene	13.323	130	403083	16.315	ppbV		99
60) 2,2,4-trimethylpentane	13.354	57	1743431	16.143	ppbV		98
61) methyl methacrylate	13.520	41	577613	17.017	ppbV		100
62) heptane	13.634	43	791196	16.535	ppbV		99
63) cis-1,3-dichloropropene	14.261	75	443859	17.106	ppbV		99
64) 4-methyl-2-pentanone	14.295	43	1118511	16.268	ppbV		98
65) trans-1,3-dichloropropene	14.819	75	451523	17.082	ppbV		99
66) 1,1,2-trichloroethane	15.009	97	348765	16.307	ppbV		96

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:55:23 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	15.280	91	1025814	19.706	ppbV	99
70)	2-methylthiophene	15.343	97	884591	20.181	ppbV	97
71)	1,3-dichloropropane	15.307	76	470479	19.743	ppbV	96
72)	2-hexanone	15.515	43	1083496	19.528	ppbV	99
73)	3-methylthiophene	15.343	97	884591	20.181	ppbV	97
74)	dibromochloromethane	15.687	129	754412	20.608	ppbV	100
75)	1,2-dibromoethane	15.913	107	579641	20.235	ppbV	97
76)	butyl acetate	16.075	73	106738	20.482	ppbV	97
77)	octane	16.157	85	266859	19.586	ppbV	98
78)	tetrachloroethene	16.310	166	513045	20.796	ppbV	96
79)	1,1,1,2-tetrachloroethane	16.856	131	508495	20.049	ppbV	99
80)	chlorobenzene	16.871	112	847676	20.519	ppbV	98
81)	ethylbenzene	17.159	91	1367155	20.174	ppbV	98
82)	2-ethylthiophene	17.196	97	1005650	21.208	ppbV	99
83)	m+p-xylene	17.303	91	2174631	40.643	ppbV	100
84)	bromoform	17.381	173	684450	21.886	ppbV	99
85)	styrene	17.577	104	819396	20.957	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.658	83	789258	20.020	ppbV	99
87)	o-xylene	17.662	91	1136911	19.966	ppbV	100
88)	1,2,3-trichloropropane	17.754	75	591305	20.211	ppbV	99
89)	nonane	17.795	43	1205360	19.367	ppbV	100
91)	isopropylbenzene	18.094	105	1572790	19.838	ppbV	99
92)	bromobenzene	18.179	77	730503	20.818	ppbV	96
93)	2-chlorotoluene	18.456	126	401646	20.431	ppbV	79
94)	n-propylbenzene	18.471	120	429952	20.326	ppbV	83
95)	4-chlorotoluene	18.504	91	1086207	20.340	ppbV	99
96)	4-ethyl toluene	18.575	105	1692900M6	20.451	ppbV	
97)	1,3,5-trimethylbenzene	18.626	105	1381666	19.941	ppbV	100
98)	tert-butylbenzene	18.934	119	1546311	19.701	ppbV	100
99)	1,2,4-trimethylbenzene	18.934	105	1401627	20.129	ppbV	96
100)	decane	18.974	57	1089430	19.496	ppbV	95
101)	Benzyl Chloride	19.044	91	982339	22.803	ppbV	99
102)	1,3-dichlorobenzene	19.063	146	863547	21.517	ppbV	99
103)	1,4-dichlorobenzene	19.111	146	854448	21.458	ppbV	98
104)	sec-butylbenzene	19.129	105	2122801	19.661	ppbV	99
105)	1,2,3-trimethylbenzene	19.251	105	1272394	21.055	ppbV	97
106)	p-isopropyltoluene	19.240	119	1915639	20.007	ppbV	98
107)	1,2-dichlorobenzene	19.369	146	826780	20.914	ppbV	99
108)	n-butylbenzene	19.557	91	1644732	19.963	ppbV	99
109)	indan	19.413	117	1221114	21.088	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:55:23 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

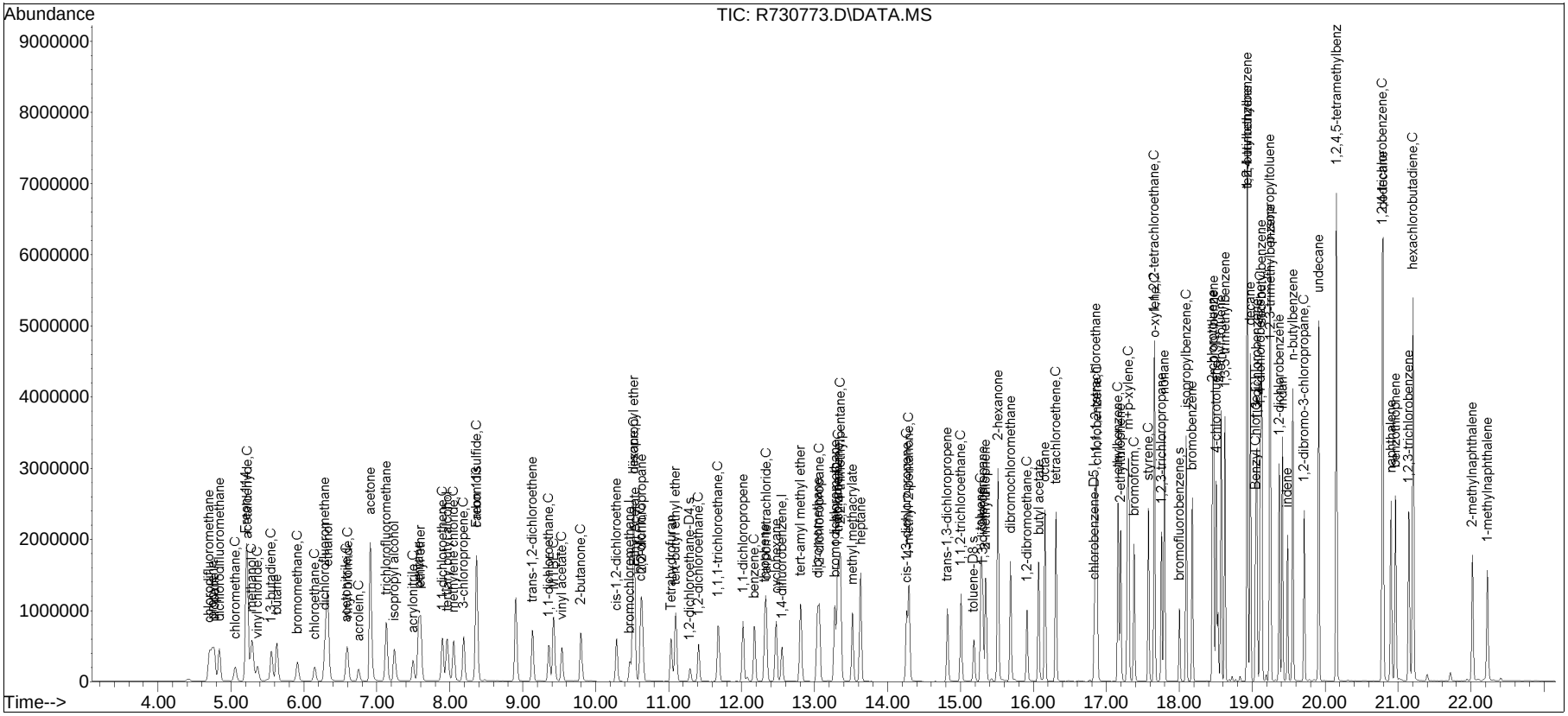
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.483	115	724543	21.733	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.712	75	382123	19.891	ppbV	97
112) undecane	19.911	57	1279554	18.531	ppbV	99
113) 1,2,4,5-tetramethylben...	20.155	119	2756232	18.754	ppbV	100
114) dodecane	20.792	57	1380984	17.797	ppbV	95
115) 1,2,4-trichlorobenzene	20.784	180	683878	20.638	ppbV	98
116) naphthalene	20.903	128	1604098	19.505	ppbV	99
117) 1,2,3-trichlorobenzene	21.143	180	663849	20.194	ppbV	98
118) benzothiophene	20.963	134	1509033	20.950	ppbV	99
119) hexachlorobutadiene	21.203	225	852103	20.411	ppbV	97
120) 2-methylnaphthalene	22.017	142	790628	21.312	ppbV	99
121) 1-methylnaphthalene	22.223	142	723538	22.484	ppbV	100

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

Sub List : Default - All compounds listed\150328T_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

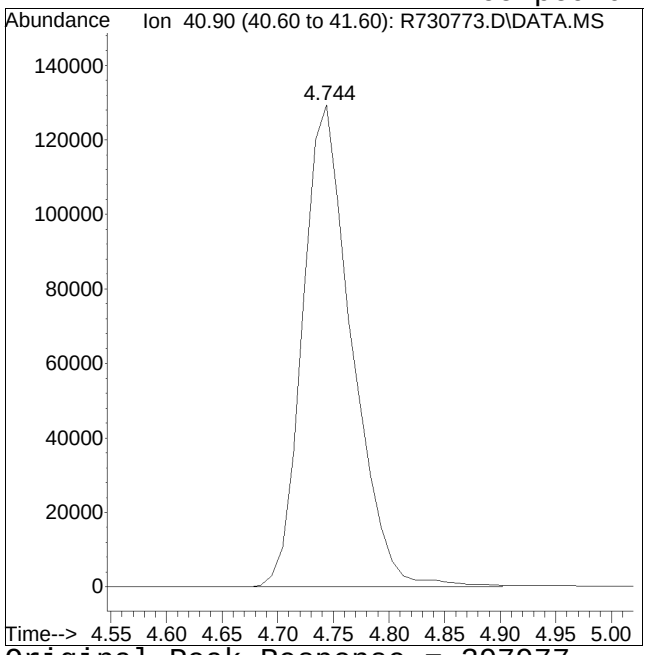
Quant Time: Mar 29 07:55:23 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration



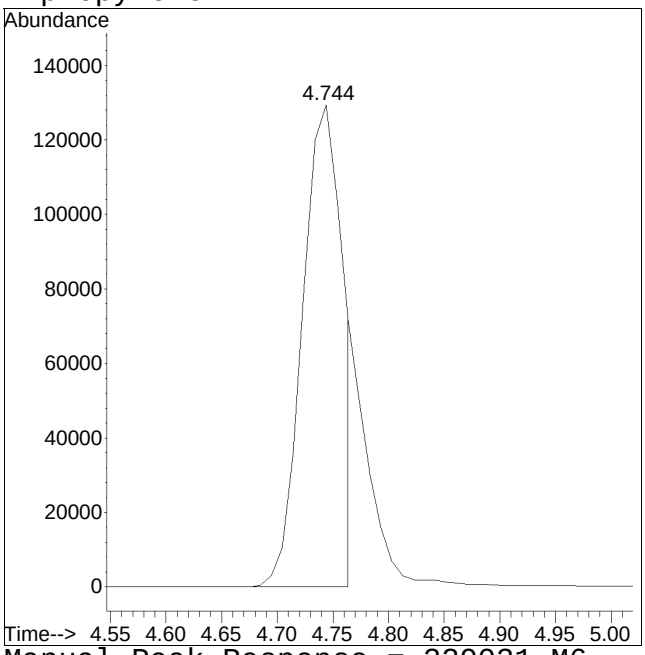
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730773.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:20 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD20.0 Quant Date : 3/29/2015 7:41 am

Compound #3: propylene



Original Peak Response = 397977



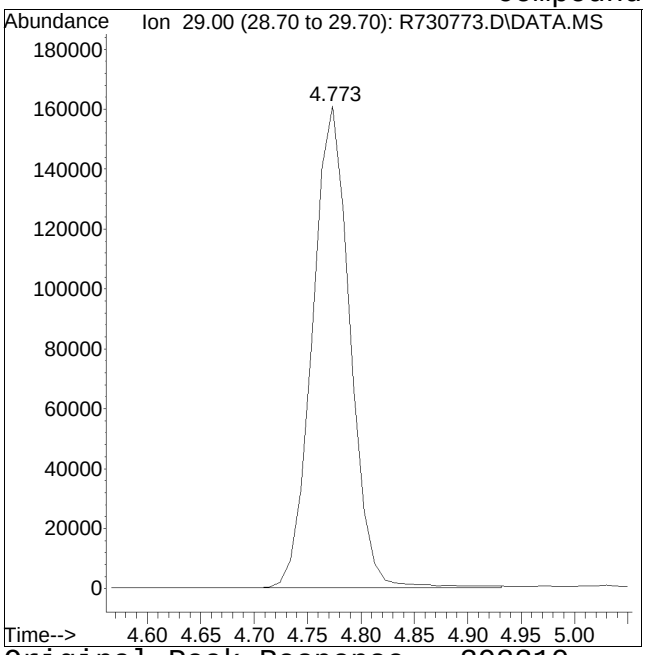
Manual Peak Response = 329031 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

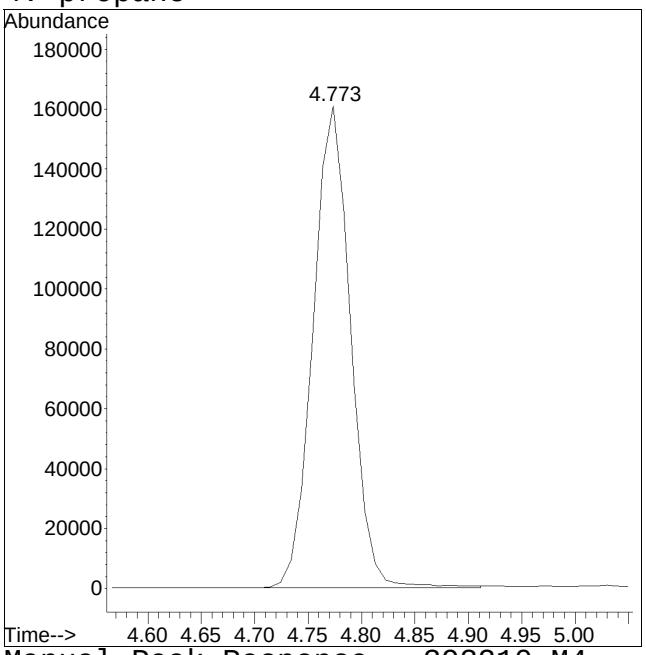
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730773.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:20 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD20.0 Quant Date : 3/29/2015 7:41 am

Compound #4: propane



Original Peak Response = 393310



Manual Peak Response = 393210 M4

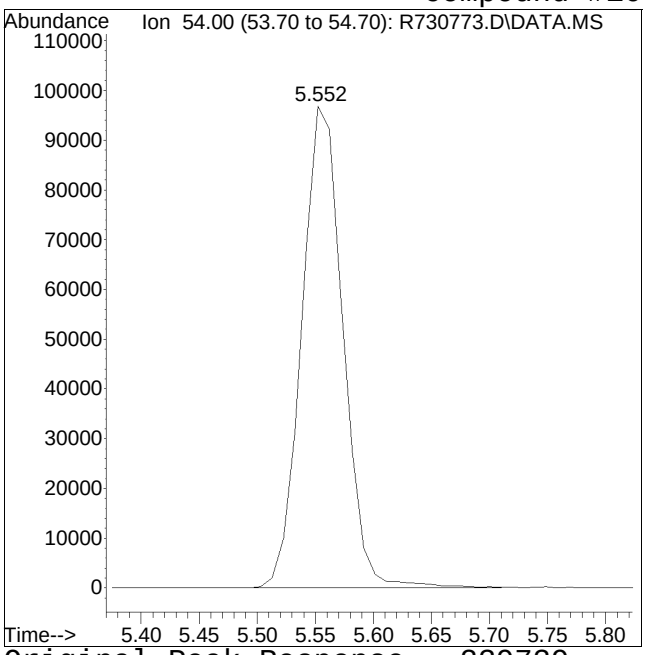
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

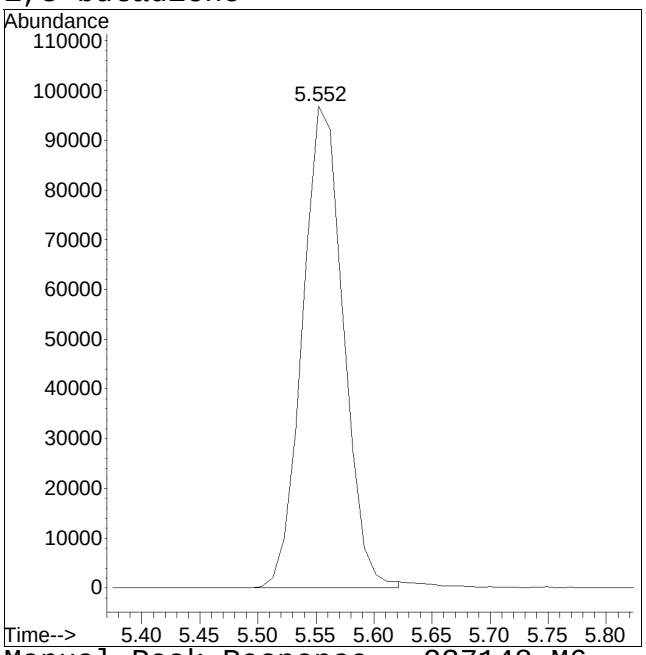
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730773.D
Date Inj'd : 3/28/2015 7:20 pm
Sample : ITO15-SIMSTD20.0

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 7:41 am

Compound #10: 1,3-butadiene



Original Peak Response = 239739



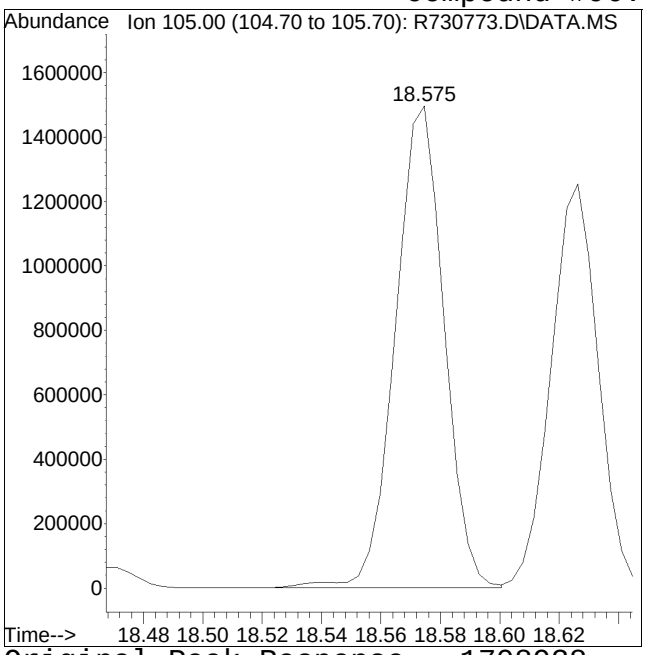
Manual Peak Response = 237148 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

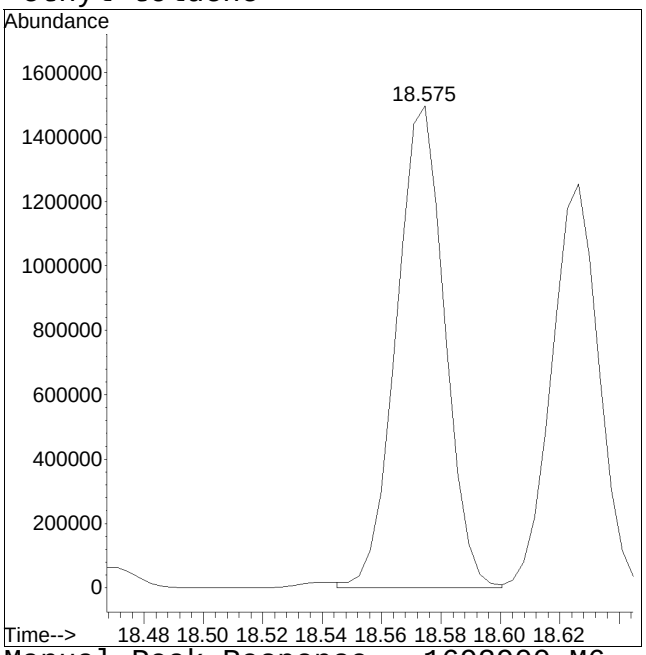
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730773.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:20 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD20.0 Quant Date : 3/29/2015 7:41 am

Compound #96: 4-ethyl toluene



Original Peak Response = 1708938



Manual Peak Response = 1692900 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730774.D
Acq On : 28 Mar 2015 7:52 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD50.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:57:02 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.474	49	189413	10.000	ppbV	0.00
Standard Area = 171708			Recovery = 110.31%			
43) 1,4-difluorobenzene	12.557	114	290952	10.000	ppbV	0.01
Standard Area = 281554			Recovery = 103.34%			
67) chlorobenzene-D5	16.834	54	115265	10.000	ppbV	0.00
Standard Area = 105394			Recovery = 109.37%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.299	65	140565	9.992	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.92%			
69) toluene-D8	15.190	98	362863	10.161	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.61%			
90) bromofluorobenzene	18.002	95	265440	11.101	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.01%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.704	51	1488262	44.776	ppbV	100
3) propylene	4.744	41	780918M6	44.859	ppbV	
4) propane	4.773	29	886801	42.691	ppbV	99
5) dichlorodifluoromethane	4.842	85	1088920	38.151	ppbV	96
6) chloromethane	5.059	50	766478	45.826	ppbV	100
7) Freon-114	5.207	85	1339159	34.470	ppbV	95
8) methanol	5.296	31	1593874M4	210.494	ppbV	
9) vinyl chloride	5.365	62	686152	46.532	ppbV	97
10) 1,3-butadiene	5.552	54	576036M6	45.352	ppbV	
11) butane	5.631	43	1348231	43.830	ppbV	98
12) acetaldehyde	5.227	29	2604667	200.795	ppbV	95
13) bromomethane	5.912	94	598310	47.522	ppbV	97
14) chloroethane	6.144	64	306472	45.745	ppbV	99
15) ethanol	6.344	31	3431990	212.419	ppbV	95
16) dichlorofluoromethane	6.288	67	1427500	46.342	ppbV	99
17) vinyl bromide	6.600	106	621690	48.269	ppbV	99
18) acrolein	6.752	56	314763	47.402	ppbV	91
19) acetone	6.920	43	6683343	220.657	ppbV	98
20) acetonitrile	6.592	41	810869	43.847	ppbV	99
21) trichlorofluoromethane	7.127	101	1913730	46.065	ppbV	99
22) isopropyl alcohol	7.247	45	1548428	46.354	ppbV	100
23) acrylonitrile	7.503	53	594079	47.427	ppbV	98
24) pentane	7.575	43	1620034	44.650	ppbV	99

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730774.D
Acq On : 28 Mar 2015 7:52 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD50.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:57:02 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	7.599	31	1199020	43.233	ppbV		96
26) 1,1-dichloroethene	7.903	61	1200680	46.462	ppbV		97
27) tertiary butyl alcohol	7.967	59	1455291	47.927	ppbV		96
28) methylene chloride	8.055	49	1088862	45.809	ppbV		95
29) 3-chloropropene	8.190	41	1245899	46.961	ppbV		97
30) carbon disulfide	8.366	76	1843532	48.551	ppbV		94
31) Freon 113	8.366	101	1369021	47.791	ppbV		97
32) trans-1,2-dichloroethene	9.137	61	1122261	47.503	ppbV		99
33) 1,1-dichloroethane	9.363	63	1270423	46.901	ppbV		99
34) MTBE	9.420	73	1684818	48.411	ppbV		99
35) vinyl acetate	9.543	43	1931206	58.437	ppbV		99
36) 2-butanone	9.801	43	2079991	45.970	ppbV		99
37) cis-1,2-dichloroethene	10.287	61	950332	46.734	ppbV		98
38) Ethyl Acetate	10.540	61	209612	45.005	ppbV		56
39) chloroform	10.625	83	1327128	46.256	ppbV		98
40) Tetrahydrofuran	11.034	42	1034324	45.080	ppbV		98
41) 2,2-dichloropropane	10.643	77	1125308	47.440	ppbV		94
42) 1,2-dichloroethane	11.418	62	1008869	44.790	ppbV		98
44) hexane	10.521	57	1039790	48.378	ppbV	#	59
45) diisopropyl ether	10.521	87	419599	49.529	ppbV		90
46) tert-butyl ethyl ether	11.102	59	2014264	50.708	ppbV		98
48) 1,1,1-trichloroethane	11.686	97	1367937	46.838	ppbV		97
49) 1,1-dichloropropene	12.018	75	765029	47.904	ppbV		99
50) benzene	12.184	78	1398795	49.589	ppbV		97
51) thiophene	12.329	84	1008986	49.406	ppbV		91
52) carbon tetrachloride	12.339	117	1216454	47.193	ppbV		97
53) cyclohexane	12.474	56	888506	48.046	ppbV		97
54) tert-amyl methyl ether	12.816	73	1750977	51.140	ppbV		98
55) dibromomethane	13.043	93	884956	49.256	ppbV		95
56) 1,2-dichloropropane	13.074	63	830290	49.351	ppbV		99
57) bromodichloromethane	13.282	83	1717024M6	51.368	ppbV		
58) 1,4-dioxane	13.313	88	481199	52.408	ppbV		97
59) trichloroethene	13.323	130	981001	49.502	ppbV		99
60) 2,2,4-trimethylpentane	13.354	57	4180640	48.261	ppbV		100
61) methyl methacrylate	13.520	41	1414012	51.935	ppbV		99
62) heptane	13.634	43	1897915	49.450	ppbV		100
63) cis-1,3-dichloropropene	14.265	75	1101176	52.908	ppbV		98
64) 4-methyl-2-pentanone	14.299	43	2675760	48.520	ppbV		99
65) trans-1,3-dichloropropene	14.828	75	1153812	54.420	ppbV		99
66) 1,1,2-trichloroethane	15.018	97	860983	50.189	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730774.D
Acq On : 28 Mar 2015 7:52 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD50.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:57:02 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	15.289	91	2472625	46.547	ppbV	99
70) 2-methylthiophene	15.352	97	2153449	48.143	ppbV	97
71) 1,3-dichloropropane	15.316	76	1134648	46.660	ppbV	96
72) 2-hexanone	15.515	43	2516880	44.453	ppbV	99
73) 3-methylthiophene	15.352	97	2153449	48.143	ppbV	97
74) dibromochloromethane	15.696	129	1890937	50.618	ppbV	99
75) 1,2-dibromoethane	15.922	107	1454946	49.773	ppbV	99
76) butyl acetate	16.075	73	259314	48.762	ppbV	97
77) octane	16.166	85	669558	48.157	ppbV	93
78) tetrachloroethene	16.310	166	1361002	54.063	ppbV	93
79) 1,1,1,2-tetrachloroethane	16.860	131	1231568	47.586	ppbV	100
80) chlorobenzene	16.878	112	2131209	50.554	ppbV	99
81) ethylbenzene	17.163	91	3388223	48.996	ppbV	98
82) 2-ethylthiophene	17.200	97	2490662	51.472	ppbV	99
83) m+p-xylene	17.311	91	5347334	97.936	ppbV	99
84) bromoform	17.388	173	1885509	59.083	ppbV	98
85) styrene	17.580	104	2078902	52.105	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.662	83	1885622	46.871	ppbV	99
87) o-xylene	17.665	91	2710394	46.645	ppbV	99
88) 1,2,3-trichloropropane	17.761	75	1466715	49.128	ppbV	99
89) nonane	17.798	43	2723188	42.877	ppbV	94
91) isopropylbenzene	18.098	105	3788592	46.829	ppbV	98
92) bromobenzene	18.183	77	1896506	52.964	ppbV	92
93) 2-chlorotoluene	18.460	126	1015171	50.605	ppbV	69
94) n-propylbenzene	18.475	120	1085302	50.280	ppbV	66
95) 4-chlorotoluene	18.508	91	2811571	51.593	ppbV	100
96) 4-ethyl toluene	18.578	105	4195617M6	49.669	ppbV	
97) 1,3,5-trimethylbenzene	18.630	105	3427877	48.481	ppbV	99
98) tert-butylbenzene	18.937	119	3503978	43.748	ppbV	100
99) 1,2,4-trimethylbenzene	18.937	105	3273656	46.070	ppbV	92
100) decane	18.978	57	2471387	43.342	ppbV	89
101) Benzyl Chloride	19.052	91	2733546	62.181	ppbV	98
102) 1,3-dichlorobenzene	19.066	146	2339063	57.113	ppbV	98
103) 1,4-dichlorobenzene	19.114	146	2303783	56.696	ppbV	98
104) sec-butylbenzene	19.133	105	4974013	45.145	ppbV	95
105) 1,2,3-trimethylbenzene	19.255	105	3043556	49.354	ppbV	100
106) p-isopropyltoluene	19.247	119	4380943	44.837	ppbV	97
107) 1,2-dichlorobenzene	19.376	146	2224218	55.136	ppbV	99
108) n-butylbenzene	19.561	91	4016816	47.778	ppbV	95
109) indan	19.417	117	3098308	52.434	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730774.D
Acq On : 28 Mar 2015 7:52 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD50.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:57:02 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

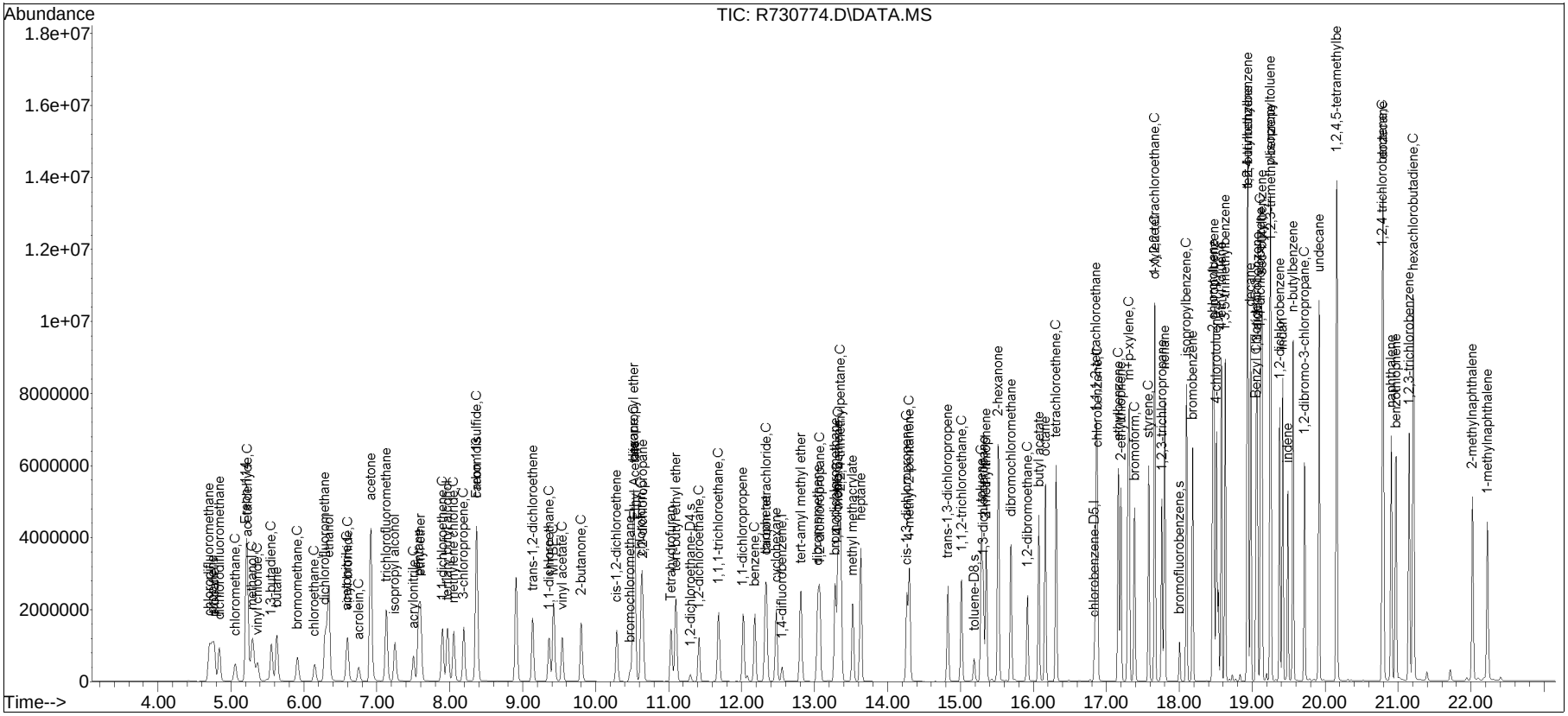
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.487	115	1899757	55.841	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.716	75	1013713	51.709	ppbV	91
112) undecane	19.918	57	2889113	41.003	ppbV #	92
113) 1,2,4,5-tetramethylben...	20.158	119	6364439	42.437	ppbV	98
114) dodecane	20.792	57	2948925	37.241	ppbV	84
115) 1,2,4-trichlorobenzene	20.783	180	1802302	53.299	ppbV	97
116) naphthalene	20.903	128	4422246	52.694	ppbV	99
117) 1,2,3-trichlorobenzene	21.152	180	1925124	57.389	ppbV	97
118) benzothiophene	20.972	134	4161174	56.613	ppbV	99
119) hexachlorobutadiene	21.212	225	2074805	48.704	ppbV	95
120) 2-methylnaphthalene	22.017	142	2307468	60.952	ppbV	98
121) 1-methylnaphthalene	22.223	142	2051310	62.466	ppbV	99

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

Sub List : Default - All compounds listed\150328T_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730774.D
Acq On : 28 Mar 2015 7:52 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD50.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

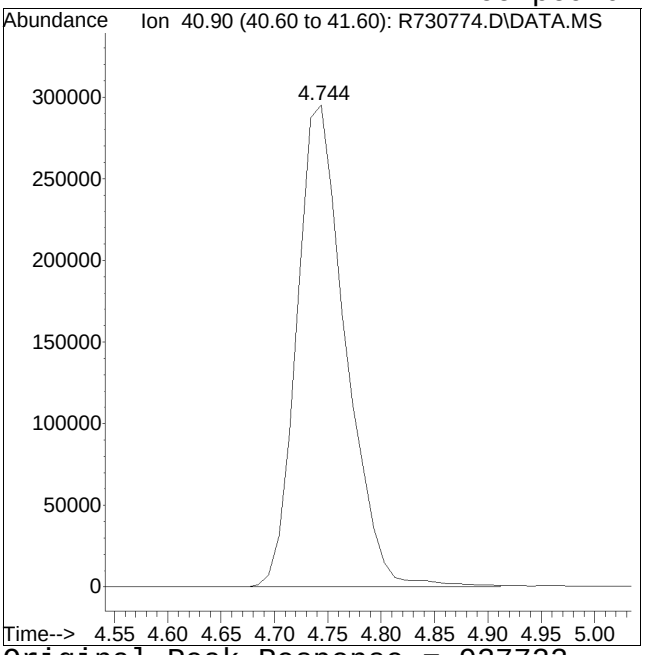
Quant Time: Mar 29 07:57:02 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration



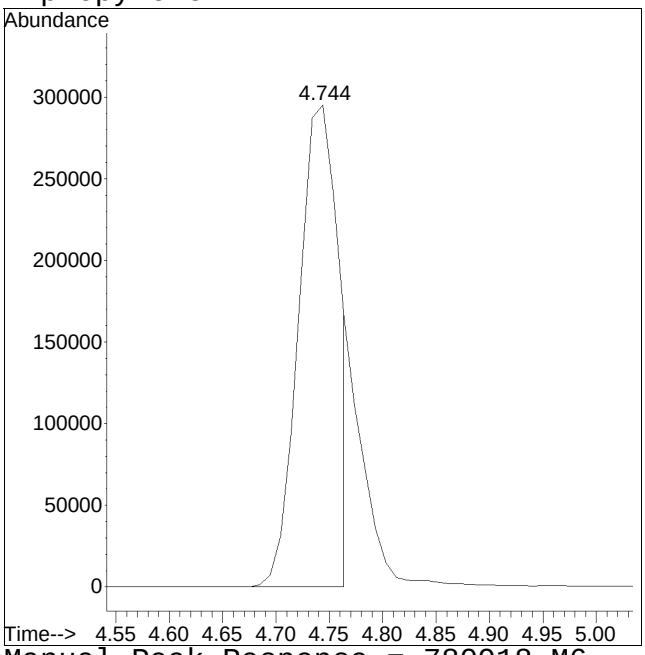
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730774.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:52 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD50.0 Quant Date : 3/29/2015 7:41 am

Compound #3: propylene



Original Peak Response = 937722



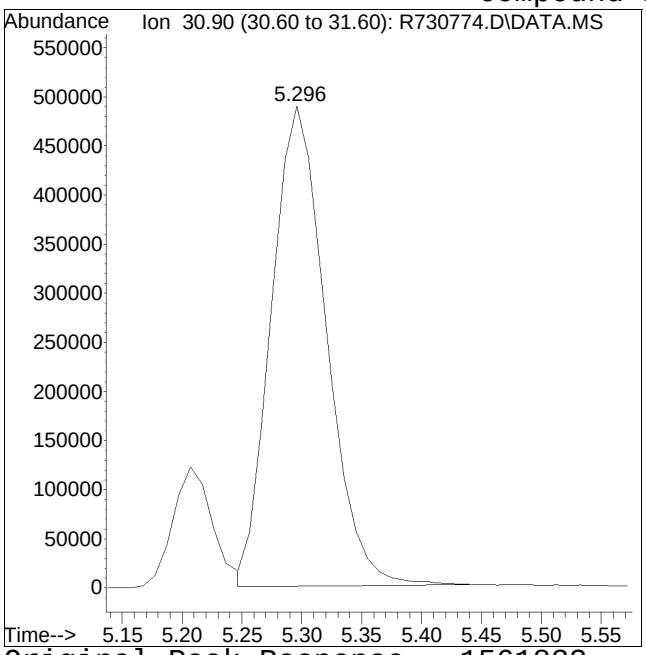
Manual Peak Response = 780918 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

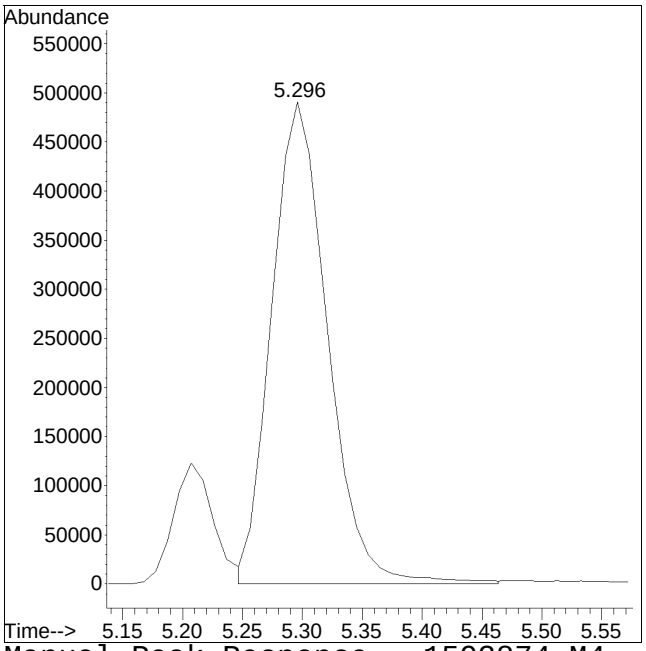
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730774.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:52 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD50.0 Quant Date : 3/29/2015 7:41 am

Compound #8: methanol



Original Peak Response = 1561833



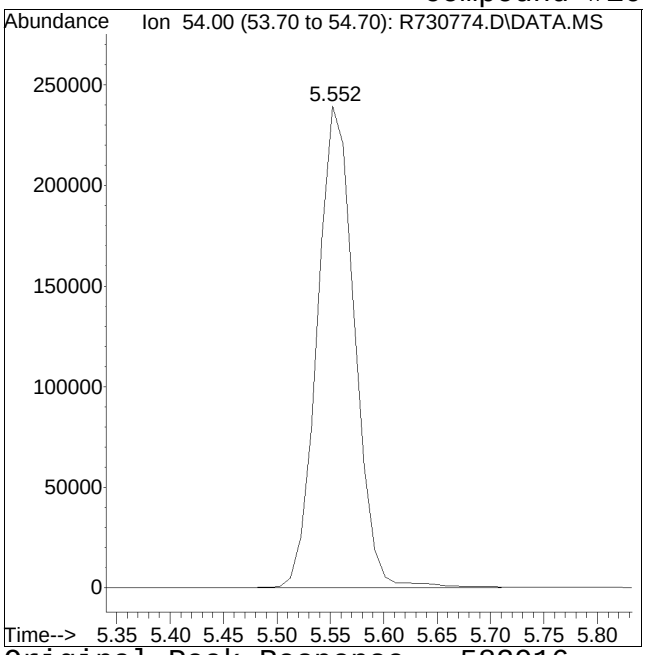
Manual Peak Response = 1593874 M4

M4 = Poor automated baseline construction.

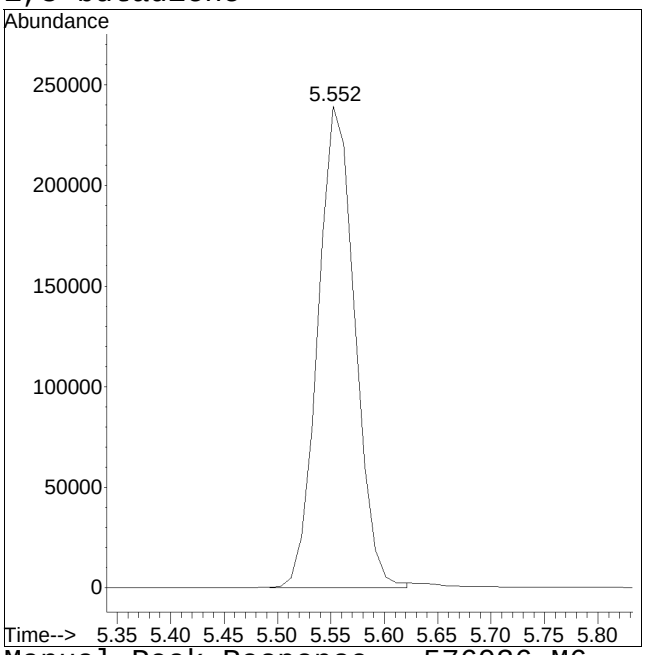
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730774.D
Date Inj'd : 3/28/2015 7:52 pm
Sample : ITO15-SIMSTD50.0

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 7:41 am

Compound #10: 1,3-butadiene



Original Peak Response = 582916



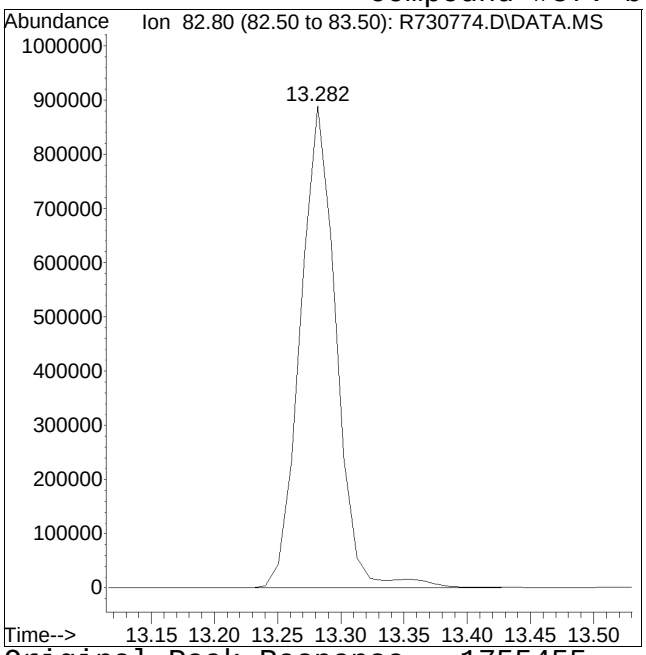
Manual Peak Response = 576036 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

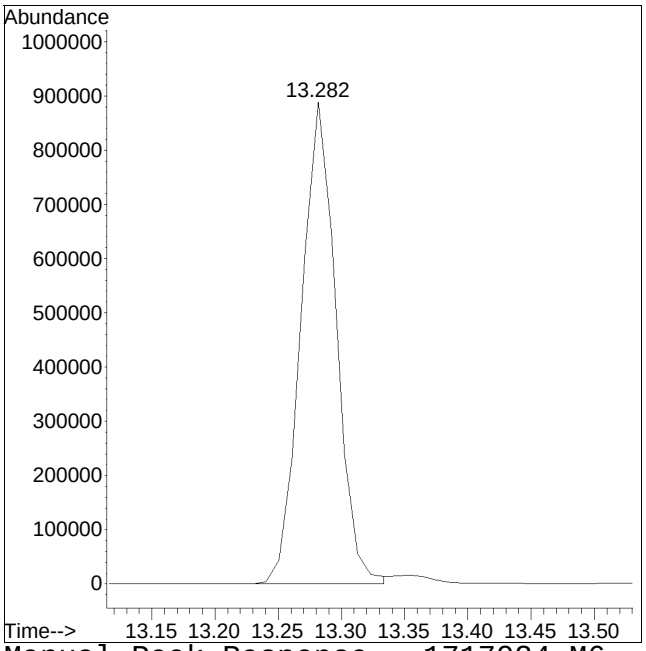
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730774.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:52 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD50.0 Quant Date : 3/29/2015 7:41 am

Compound #57: bromodichloromethane



Original Peak Response = 1755455



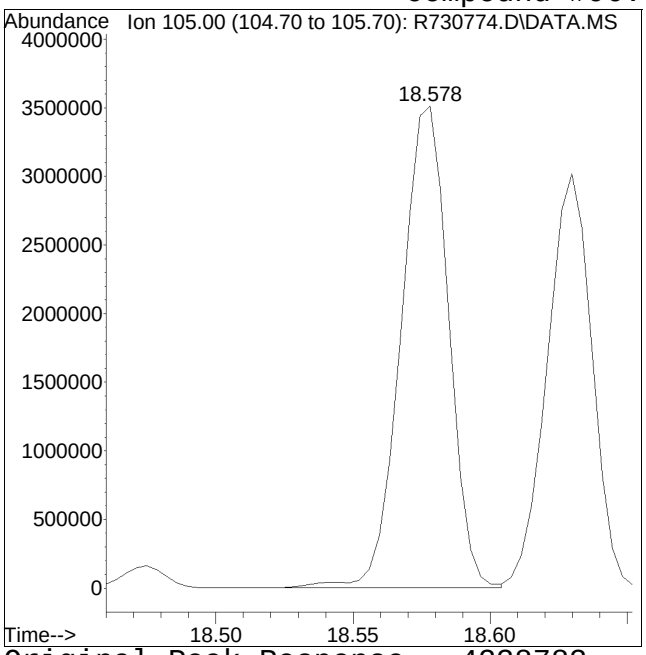
Manual Peak Response = 1717024 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

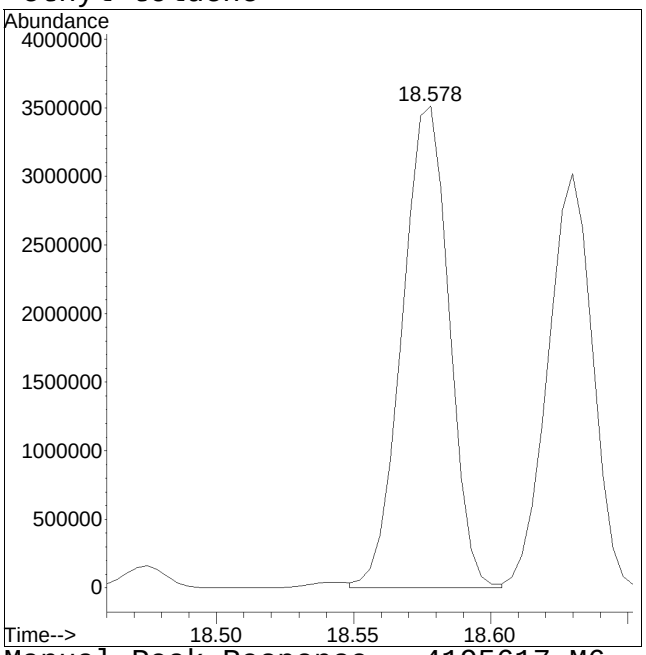
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730774.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:52 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD50.0 Quant Date : 3/29/2015 7:41 am

Compound #96: 4-ethyl toluene



Original Peak Response = 4238783



Manual Peak Response = 4195617 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730775.D
Acq On : 28 Mar 2015 8:26 pm
Operator : AIRLAB7:MB
Sample : ITO15-LLSTD100.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:58:44 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.475	49	202385	10.000	ppbV	0.00
Standard Area = 171708			Recovery = 117.87%			
43) 1,4-difluorobenzene	12.557	114	308537	10.000	ppbV	0.01
Standard Area = 281554			Recovery = 109.58%			
67) chlorobenzene-D5	16.841	54	114324	10.000	ppbV	# 0.00
Standard Area = 105394			Recovery = 108.47%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.307	65	143210	9.600	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.00%			
69) toluene-D8	15.190	98	408618	11.536	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.36%			
90) bromofluorobenzene	18.009	95	300978	12.691	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.91%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.704	51	2810090	79.126	ppbV	99
3) propylene	4.744	41	1543129M6	82.961	ppbV	
4) propane	4.773	29	1644993	74.115	ppbV	94
5) dichlorodifluoromethane	4.842	85	2364384	77.529	ppbV	97
6) chloromethane	5.059	50	1448958	81.077	ppbV	99
7) Freon-114	5.207	85	2866760	69.061	ppbV	94
8) methanol	5.306	31	2896401M4	357.994	ppbV	
9) vinyl chloride	5.365	62	1330592	84.451	ppbV	98
10) 1,3-butadiene	5.552	54	1114957M6	82.155	ppbV	
11) butane	5.631	43	2545608	77.452	ppbV	99
12) acetaldehyde	5.227	29	4268580	307.975	ppbV	93
13) bromomethane	5.912	94	1205226	89.591	ppbV	96
14) chloroethane	6.152	64	600253	83.852	ppbV	99
15) ethanol	6.368	31	6185884	358.328	ppbV	91
16) dichlorofluoromethane	6.288	67	2784506	84.602	ppbV	99
17) vinyl bromide	6.600	106	1251445	90.937	ppbV	97
18) acrolein	6.760	56	615281	86.720	ppbV	92
19) acetone	6.936	43	11844455	365.991	ppbV	95
20) acetonitrile	6.608	41	1509266	76.381	ppbV	99
21) trichlorofluoromethane	7.135	101	3748496	84.446	ppbV	98
22) isopropyl alcohol	7.263	45	2979157	83.468	ppbV	100
23) acrylonitrile	7.519	53	1174975M6	87.789	ppbV	
24) pentane	7.575	43	3023874	78.000	ppbV	98

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730775.D
Acq On : 28 Mar 2015 8:26 pm
Operator : AIRLAB7:MB
Sample : ITO15-LLSTD100.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:58:44 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	7.607	31	2145544	72.403	ppbV		91
26) 1,1-dichloroethene	7.903	61	2361810	85.535	ppbV		94
27) tertiary butyl alcohol	7.991	59	2937047	90.525	ppbV		92
28) methylene chloride	8.063	49	2057130	80.998	ppbV		90
29) 3-chloropropene	8.199	41	2355970	83.111	ppbV		96
30) carbon disulfide	8.374	76	3629752	89.465	ppbV	#	89
31) Freon 113	8.366	101	2679669	87.548	ppbV		96
32) trans-1,2-dichloroethene	9.138	61	2236530	88.600	ppbV		96
33) 1,1-dichloroethane	9.369	63	2548693	88.061	ppbV		98
34) MTBE	9.427	73	3452766	92.852	ppbV		96
35) vinyl acetate	9.549	43	4006203	113.454	ppbV	#	97
36) 2-butanone	9.813	43	3969958	82.117	ppbV		97
37) cis-1,2-dichloroethene	10.296	61	1897338	87.325	ppbV		96
38) Ethyl Acetate	10.559	61	418780	84.151	ppbV	#	2
39) chloroform	10.634	83	2581763	84.217	ppbV		95
40) Tetrahydrofuran	11.043	42	1997993	81.498	ppbV	#	93
41) 2,2-dichloropropane	10.653	77	2209409	87.172	ppbV		84
42) 1,2-dichloroethane	11.426	62	1926714	80.055	ppbV		99
44) hexane	10.521	57	1944748	85.325	ppbV	#	27
45) diisopropyl ether	10.531	87	839585	93.455	ppbV	#	61
46) tert-butyl ethyl ether	11.103	59	3978821	94.455	ppbV		98
48) 1,1,1-trichloroethane	11.687	97	2626509	84.805	ppbV		96
49) 1,1-dichloropropene	12.028	75	1548191	91.419	ppbV		89
50) benzene	12.194	78	2846410	95.157	ppbV		94
51) thiophene	12.339	84	1977454	91.310	ppbV	#	83
52) carbon tetrachloride	12.349	117	2159011	78.985	ppbV		97
53) cyclohexane	12.484	56	1763887	89.946	ppbV		92
54) tert-amyl methyl ether	12.816	73	3714891	102.314	ppbV		95
55) dibromomethane	13.054	93	1803798	94.676	ppbV		90
56) 1,2-dichloropropane	13.085	63	1683855	94.380	ppbV		97
57) bromodichloromethane	13.292	83	3518975M6	99.276	ppbV		
58) 1,4-dioxane	13.323	88	993227	102.008	ppbV		93
59) trichloroethene	13.334	130	1990044	94.696	ppbV		99
60) 2,2,4-trimethylpentane	13.365	57	7899185	85.991	ppbV		99
61) methyl methacrylate	13.530	41	2755299	95.431	ppbV		94
62) heptane	13.644	43	3558711	87.437	ppbV	#	96
63) cis-1,3-dichloropropene	14.274	75	2305927	104.478	ppbV		97
64) 4-methyl-2-pentanone	14.312	43	5123050	87.603	ppbV		95
65) trans-1,3-dichloropropene	14.837	75	2393527	106.458	ppbV		95
66) 1,1,2-trichloroethane	15.027	97	1778066	97.741	ppbV		98

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730775.D
Acq On : 28 Mar 2015 8:26 pm
Operator : AIRLAB7:MB
Sample : ITO15-LLSTD100.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:58:44 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	15.298	91	4987737	94.666	ppbV		99
70) 2-methylthiophene	15.361	97	4373748	98.586	ppbV		97
71) 1,3-dichloropropane	15.325	76	2271994	94.199	ppbV		92
72) 2-hexanone	15.533	43	4324374	77.006	ppbV	#	90
73) 3-methylthiophene	15.361	97	4373748	98.586	ppbV		97
74) dibromochloromethane	15.696	129	3687301	99.517	ppbV		98
75) 1,2-dibromoethane	15.931	107	2967533	102.353	ppbV		99
76) butyl acetate	16.084	73	526098	99.744	ppbV		79
77) octane	16.175	85	1330186	96.458	ppbV	#	72
78) tetrachloroethene	16.319	166	2721312	108.987	ppbV		92
79) 1,1,1,2-tetrachloroethane	16.867	131	2248761	87.605	ppbV		100
80) chlorobenzene	16.886	112	4151983	99.299	ppbV		98
81) ethylbenzene	17.170	91	6691918	97.567	ppbV		95
82) 2-ethylthiophene	17.207	97	4892657	101.943	ppbV		95
83) m+p-xylene	17.322	91	10070665	185.962	ppbV		97
84) bromoform	17.396	173	3697627	116.820	ppbV		98
85) styrene	17.588	104	4195054	106.009	ppbV		96
86) 1,1,2,2-tetrachloroethane	17.669	83	3375797	84.602	ppbV		98
87) o-xylene	17.677	91	4878381	84.647	ppbV		97
88) 1,2,3-trichloropropane	17.769	75	2917693	98.533	ppbV		95
89) nonane	17.806	43	4411758	70.036	ppbV	#	83
91) isopropylbenzene	18.105	105	7043453	87.777	ppbV		95
92) bromobenzene	18.190	77	3792025	106.771	ppbV		95
93) 2-chlorotoluene	18.464	126	1943021	97.655	ppbV	#	49
94) n-propylbenzene	18.482	120	2018463	94.282	ppbV	#	49
95) 4-chlorotoluene	18.515	91	5582094	103.276	ppbV		97
96) 4-ethyl toluene	18.582	105	7601652M6	90.732	ppbV		
97) 1,3,5-trimethylbenzene	18.637	105	6275639	89.487	ppbV		98
98) tert-butylbenzene	18.937	119	5540872	69.749	ppbV		99
99) 1,2,4-trimethylbenzene	18.948	105	5157704	73.182	ppbV	#	80
100) decane	18.985	57	4209749	74.436	ppbV	#	79
101) Benzyl Chloride	19.059	91	5521119	126.624	ppbV		95
102) 1,3-dichlorobenzene	19.078	146	4245668	104.521	ppbV		97
103) 1,4-dichlorobenzene	19.122	146	3895991	96.670	ppbV		96
104) sec-butylbenzene	19.140	105	8092982	74.059	ppbV		94
105) 1,2,3-trimethylbenzene	19.266	105	5009314	81.899	ppbV		97
106) p-isopropyltoluene	19.251	119	6740074	69.550	ppbV		98
107) 1,2-dichlorobenzene	19.384	146	4362101	109.023	ppbV		97
108) n-butylbenzene	19.564	91	7257006	87.029	ppbV		94
109) indan	19.424	117	5792576	98.837	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730775.D
Acq On : 28 Mar 2015 8:26 pm
Operator : AIRLAB7:MB
Sample : ITO15-LLSTD100.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 07:58:44 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default - All compounds listed

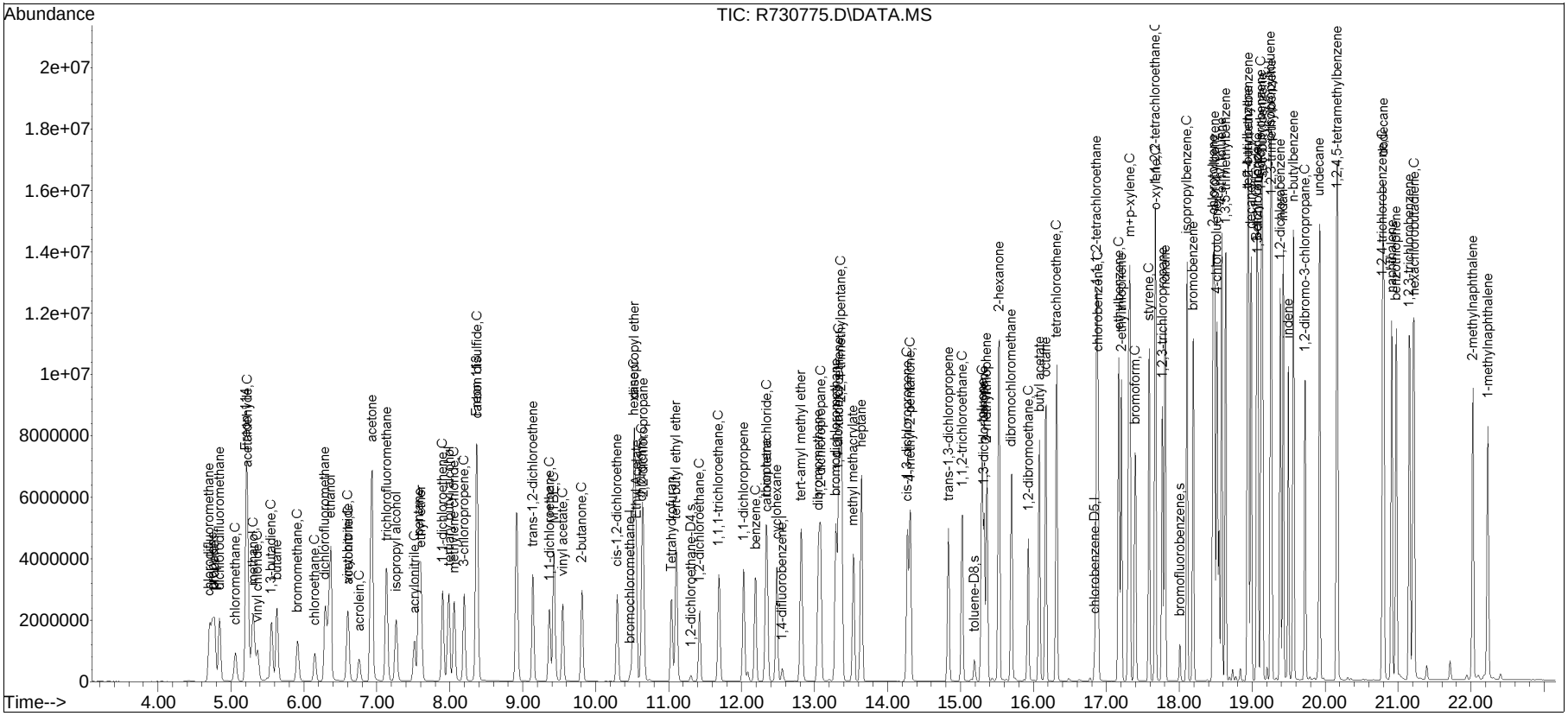
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.494	115	3899809	115.575	ppbV		99
111) 1,2-dibromo-3-chloropr...	19.723	75	1956305	100.612	ppbV	#	86
112) undecane	19.922	57	4731263	67.700	ppbV	#	83
113) 1,2,4,5-tetramethylben...	20.166	119	10064241	67.658	ppbV		97
114) dodecane	20.801	57	4213611	53.651	ppbV	#	77
115) 1,2,4-trichlorobenzene	20.784	180	2705000	80.653	ppbV		97
116) naphthalene	20.912	128	8216868	98.716	ppbV		97
117) 1,2,3-trichlorobenzene	21.152	180	3606374	108.393	ppbV		99
118) benzothiophene	20.972	134	7792658	106.893	ppbV		97
119) hexachlorobutadiene	21.220	225	2885177	68.283	ppbV		97
120) 2-methylnaphthalene	22.026	142	4582773	122.051	ppbV		99
121) 1-methylnaphthalene	22.231	142	4045293	124.201	ppbV		98

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

Sub List : Default - All compounds listed\150328T_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730775.D
Acq On : 28 Mar 2015 8:26 pm
Operator : AIRLAB7:MB
Sample : ITO15-LLSTD100.0
Misc : WG771893
ALS Vial : 8 Sample Multiplier: 1

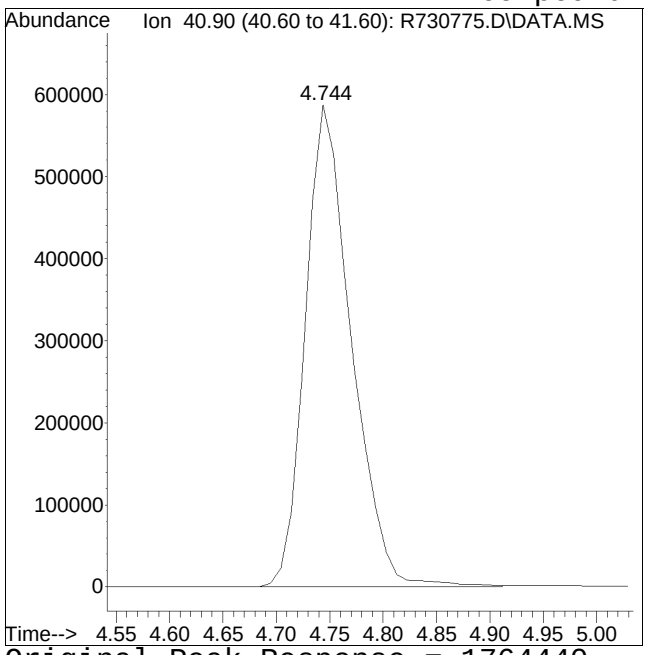
Quant Time: Mar 29 07:58:44 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:40:17 2015
Response via : Initial Calibration



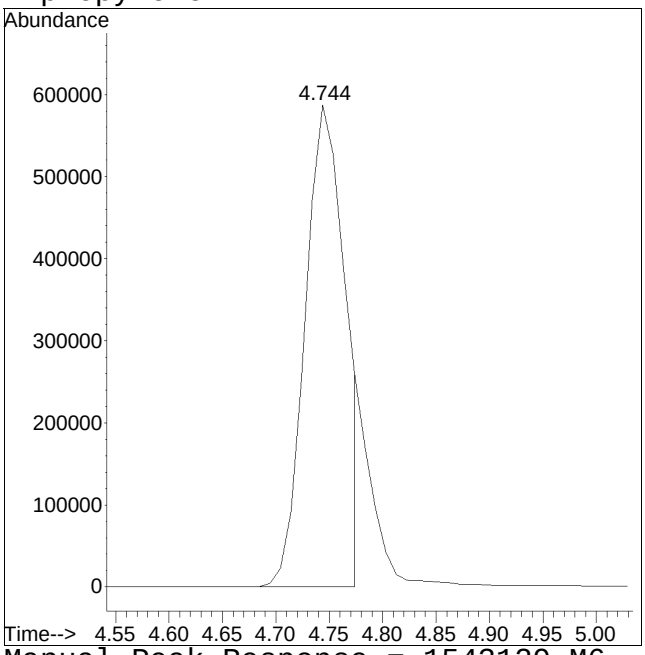
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730775.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 8:26 pm Instrument : Airlab 7
Sample : ITO15-LLSTD100.0 Quant Date : 3/29/2015 7:41 am

Compound #3: propylene



Original Peak Response = 1764440



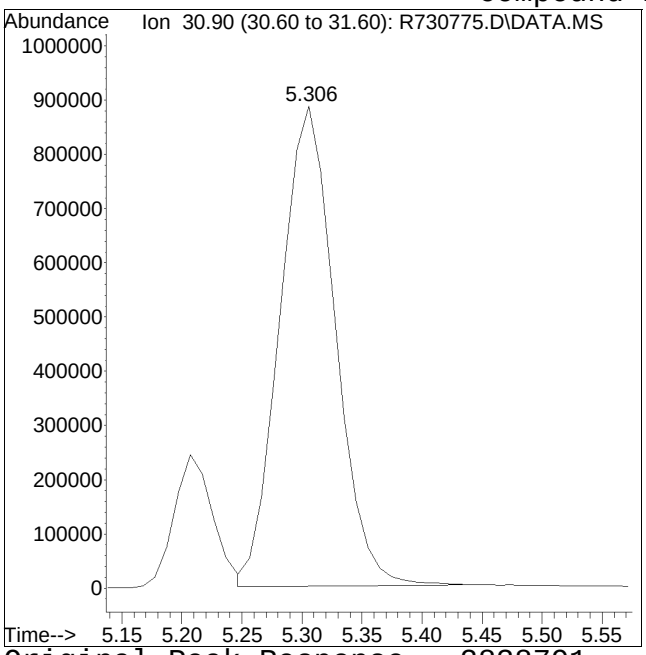
Manual Peak Response = 1543129 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

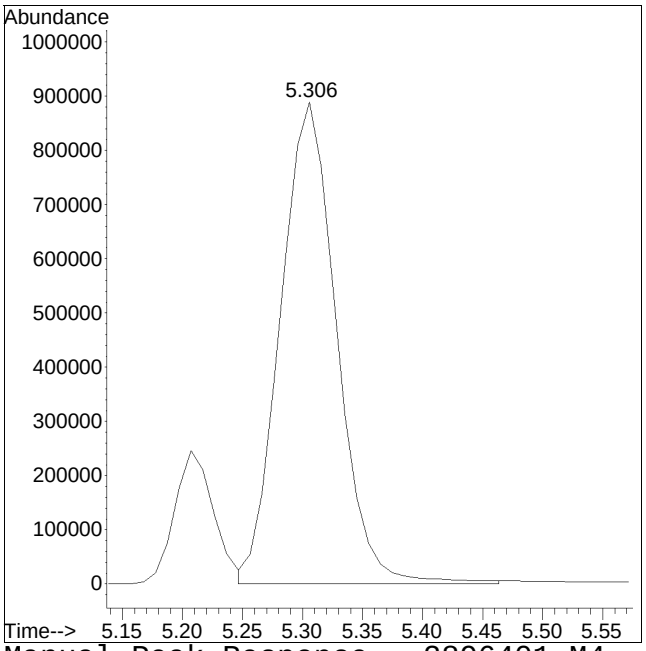
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730775.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 8:26 pm Instrument : Airlab 7
Sample : ITO15-LLSTD100.0 Quant Date : 3/29/2015 7:41 am

Compound #8: methanol



Original Peak Response = 2838791



Manual Peak Response = 2896401 M4

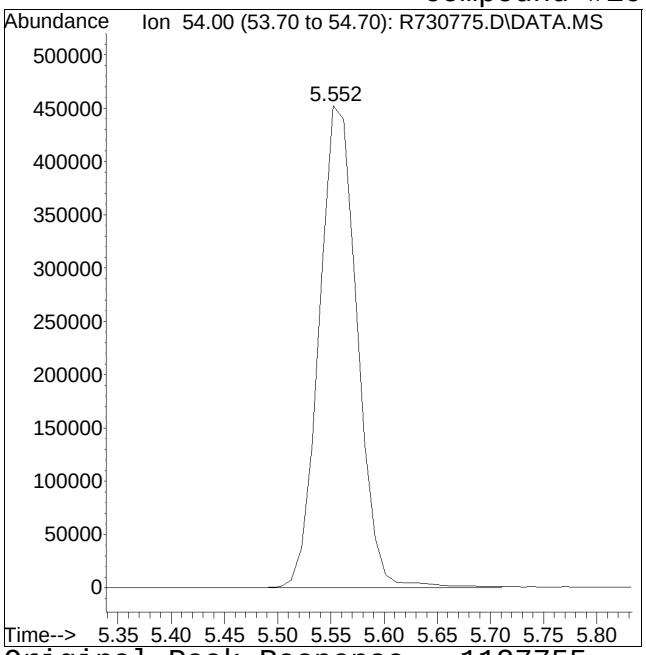
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

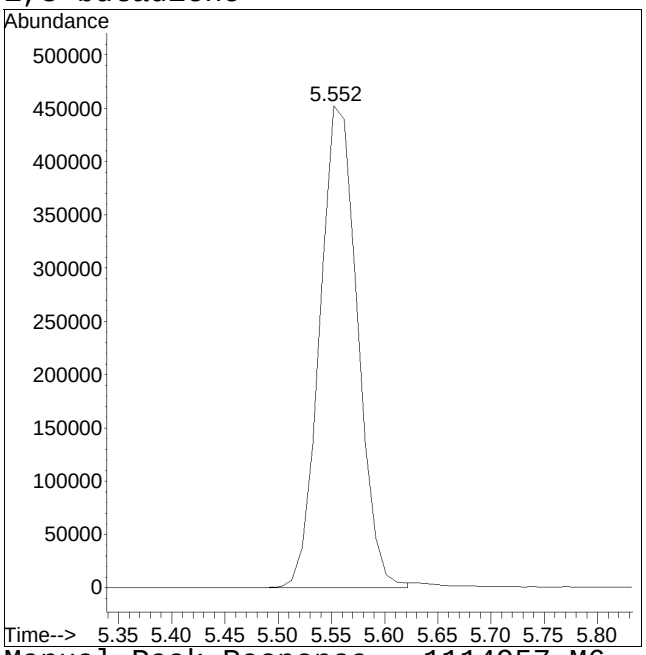
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730775.D
Date Inj'd : 3/28/2015 8:26 pm
Sample : ITO15-LLSTD100.0

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 7:41 am

Compound #10: 1,3-butadiene



Original Peak Response = 1127755



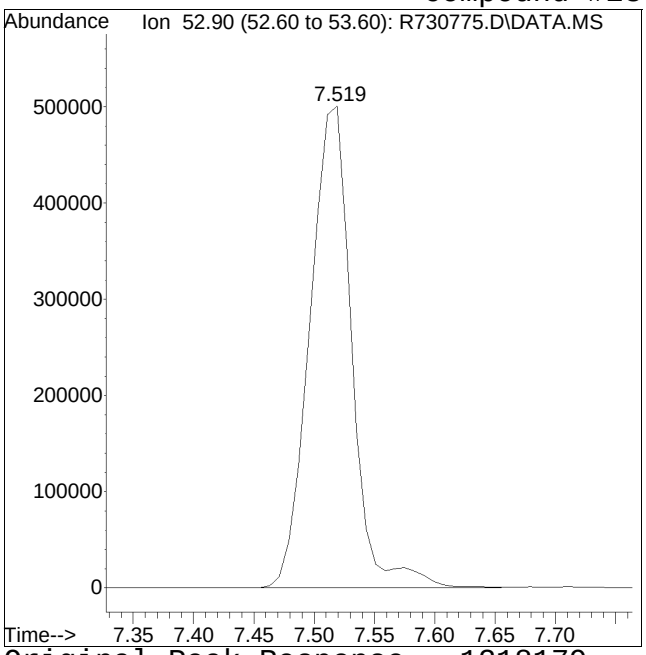
Manual Peak Response = 1114957 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

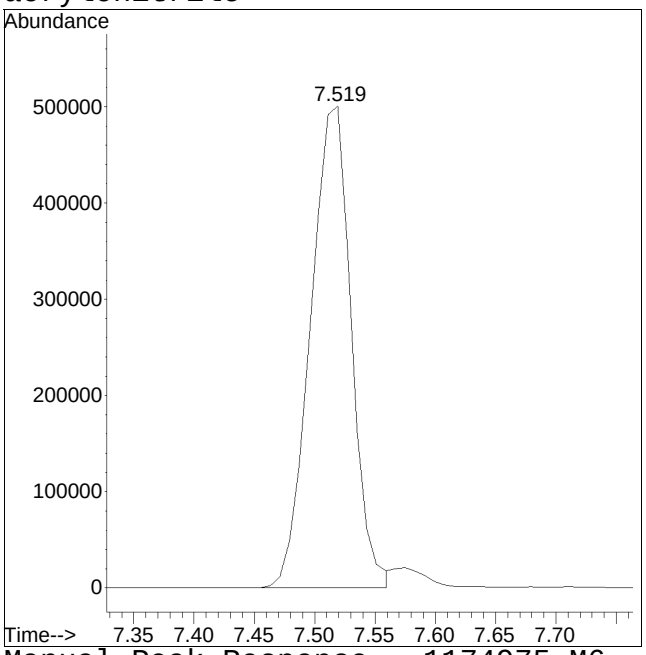
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730775.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 8:26 pm Instrument : Airlab 7
Sample : ITO15-LLSTD100.0 Quant Date : 3/29/2015 7:41 am

Compound #23: acrylonitrile



Original Peak Response = 1218179



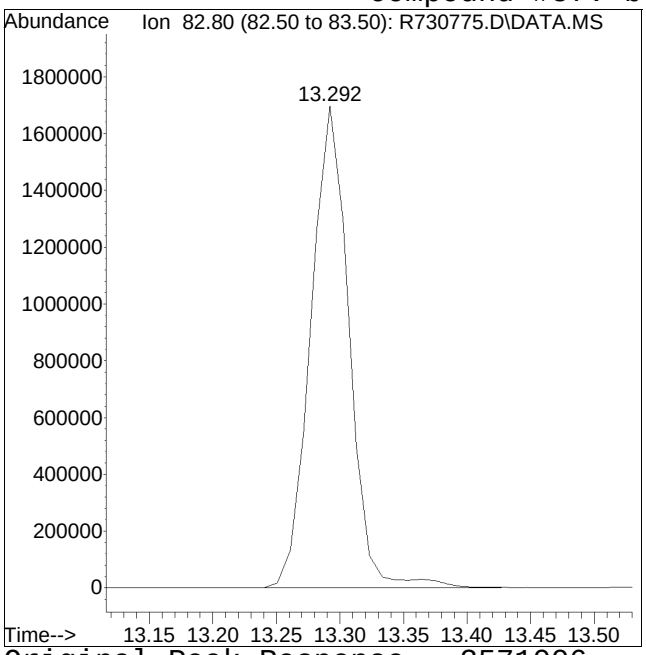
Manual Peak Response = 1174975 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

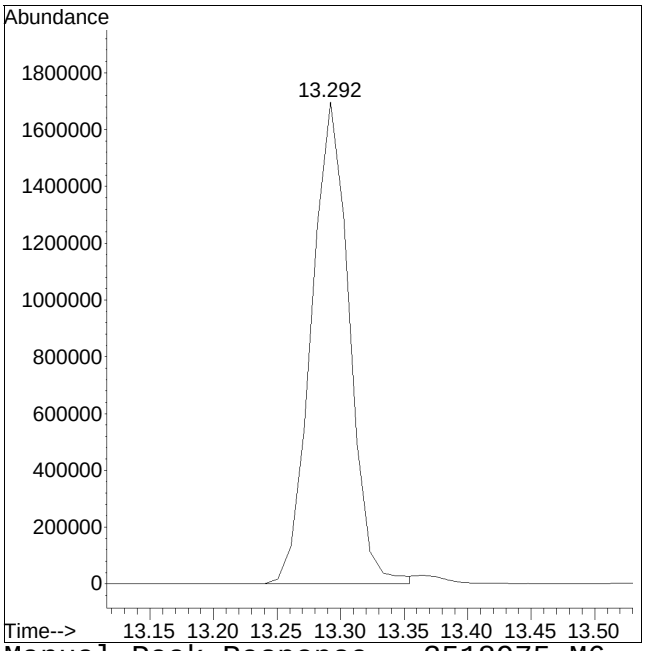
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730775.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 8:26 pm Instrument : Airlab 7
Sample : ITO15-LLSTD100.0 Quant Date : 3/29/2015 7:41 am

Compound #57: bromodichloromethane



Original Peak Response = 3571006



Manual Peak Response = 3518975 M6

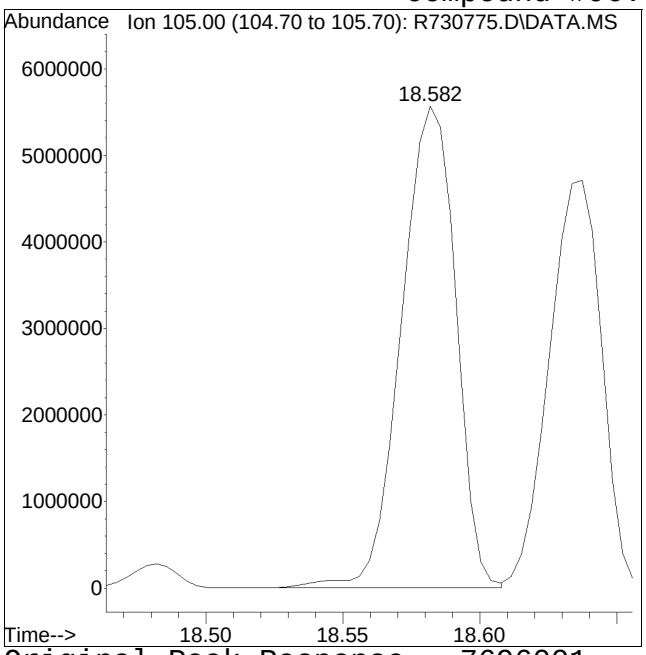
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

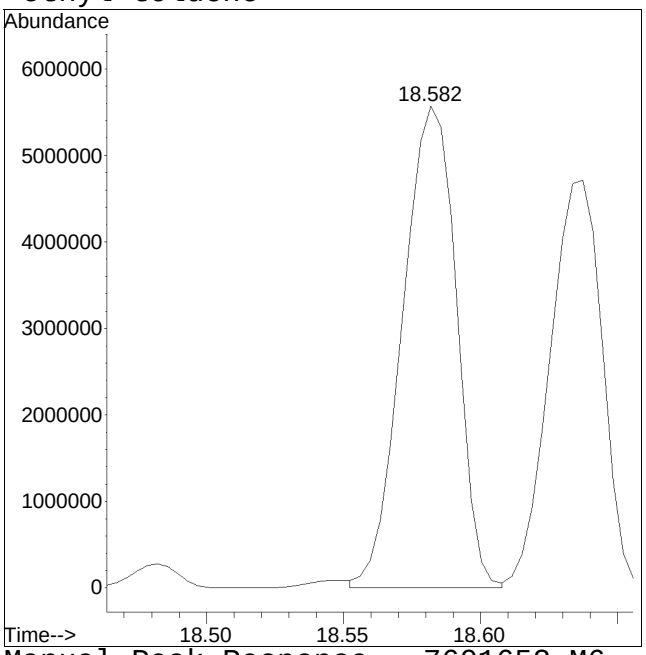
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730775.D
Date Inj'd : 3/28/2015 8:26 pm
Sample : ITO15-LLSTD100.0

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 7:41 am

Compound #96: 4-ethyl toluene



Original Peak Response = 7696001



Manual Peak Response = 7601652 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730778.D
Acq On : 29 Mar 2015 10:17 am
Operator : AIRLAB7:MB
Sample : CTO15-LLSTD010
Misc : WG771893
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 10:41:21 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	101	0.00
2		chlorodifluoromethane	1.738	1.363	21.6	78	0.00
3		propylene	0.896	0.795	11.3	87	0.00
4		propane	1.061	0.685	35.4#	63	0.00
5		dichlorodifluoromethane	1.377	1.177	14.5	79	0.00
6	C	chloromethane	0.912	0.761	16.6	87	0.00
7		Freon-114	1.892	1.848	2.3	91	0.00
8	C	methanol	0.371	0.285	23.2	72	0.00
9	C	vinyl chloride	0.754	0.695	7.8	90	0.00
10	C	1,3-butadiene	0.642	0.629	2.0	95	0.00
11		butane	1.607	1.327	17.4	82	0.00
13	C	bromomethane	0.676	0.634	6.2	96	0.00
14	C	chloroethane	0.336	0.317	5.7	90	0.00
15		ethanol	0.798	0.646	19.0	76	0.00
16		dichlorofluoromethane	1.593	1.359	14.7	84	0.00
17	C	vinyl bromide	0.672	0.653	2.8	97	0.00
18	C	acrolein	0.340	0.298	12.4	86	0.00
19		acetone	1.591	1.447	9.1	91	0.00
20	C	acetonitrile	0.936	0.790	15.6	82	0.00
21		trichlorofluoromethane	2.200	1.942	11.7	89	0.00
22		isopropyl alcohol	1.708	1.674	2.0	96	0.00
23	C	acrylonitrile	0.653	0.592	9.3	90	0.00
24		pentane	1.827	1.584	13.3	83	0.00
25		ethyl ether	1.395	1.134	18.7	78	0.00
26	C	1,1-dichloroethene	1.351	1.238	8.4	91	0.00
27		tertiary butyl alcohol	1.548	1.456	5.9	92	0.00
28	C	methylene chloride	1.287	1.103	14.3	89	0.00
29	C	3-chloropropene	1.382	1.333	3.5	96	0.00
30	C	carbon disulfide	1.987	1.866	6.1	94	0.00
31		Freon 113	1.538	1.452	5.6	97	0.00
32		trans-1,2-dichloroethene	1.247	1.060	15.0	86	0.00
33	C	1,1-dichloroethane	1.440	1.326	7.9	93	0.00
34	C	MTBE	1.846	1.770	4.1	97	0.00
35	C	vinyl acetate	1.780	1.892	-6.3	109	0.00
36	C	2-butanone	2.381	2.072	13.0	87	0.00
37		cis-1,2-dichloroethene	1.070	1.054	1.5	99	0.00
38		Ethyl Acetate	0.240	0.230	4.2	94	0.00
39	C	chloroform	1.521	1.365	10.3	91	0.00
40		Tetrahydrofuran	1.181	1.053	10.8	88	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730778.D
Acq On : 29 Mar 2015 10:17 am
Operator : AIRLAB7:MB
Sample : CTO15-LLSTD010
Misc : WG771893
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 10:41:21 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	1.243	1.045	15.9	84	0.00
42	C	1,2-dichloroethane	1.160	0.986	15.0	84	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00
44	C	hexane	0.722	0.671	7.1	93	0.00
45		diisopropyl ether	0.285	0.258	9.5	90	0.00
46		tert-butyl ethyl ether	1.343	1.177	12.4	88	0.00
47	s	1,2-dichloroethane-D4	0.466	0.444	4.7	94	0.00
48	C	1,1,1-trichloroethane	0.930	0.843	9.4	86	0.00
49		1,1-dichloropropene	0.527	0.478	9.3	89	0.00
50	C	benzene	0.971	0.862	11.2	91	0.00
52	C	carbon tetrachloride	0.834	0.739	11.4	85	0.00
53		cyclohexane	0.619	0.557	10.0	89	0.00
54		tert-amyl methyl ether	1.141	0.940	17.6	82	0.01
55		dibromomethane	0.606	0.518	14.5	86	0.00
56	C	1,2-dichloropropane	0.564	0.516	8.5	91	0.00
57		bromodichloromethane	1.102	1.039	5.7	92	0.00
58	C	1,4-dioxane	0.299	0.290	3.0	94	0.00
59	C	trichloroethene	0.664	0.628	5.4	94	0.00
60	C	2,2,4-trimethylpentane	2.796	2.644	5.4	91	0.00
61		methyl methacrylate	0.873	0.824	5.6	90	0.00
62		heptane	1.264	1.159	8.3	90	0.00
63	C	cis-1,3-dichloropropene	0.658	0.679	-3.2	97	0.00
64	C	4-methyl-2-pentanone	1.754	1.610	8.2	87	0.00
65		trans-1,3-dichloropropene	0.651	0.561	13.8	79	0.00
66	C	1,1,2-trichloroethane	0.561	0.543	3.2	94	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	97	0.00
68	C	toluene	4.701	4.305	8.4	91	0.00
69	s	toluene-D8	3.263	3.382	-3.6	106	0.00
71		1,3-dichloropropane	2.144	1.831	14.6	84	0.00
72		2-hexanone	4.615	4.222	8.5	83	0.00
74		dibromochloromethane	3.197	2.994	6.3	90	0.00
75	C	1,2-dibromoethane	2.575	2.318	10.0	89	0.00
76		butyl acetate	0.423	0.395	6.6	83	0.00
77		octane	1.230	1.090	11.4	88	0.00
78	C	tetrachloroethene	2.265	2.104	7.1	94	0.00
79		1,1,1,2-tetrachloroethane	2.280	2.003	12.1	87	0.00
80	C	chlorobenzene	3.733	3.410	8.7	91	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730778.D
Acq On : 29 Mar 2015 10:17 am
Operator : AIRLAB7:MB
Sample : CTO15-LLSTD010
Misc : WG771893
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 10:41:21 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	ethylbenzene	5.875	5.476	6.8	89	0.00
83	C	m+p-xylene	4.608	4.266	7.4	87	0.00
84	C	bromoform	2.715	2.498	8.0	88	0.00
85	C	styrene	3.260	3.109	4.6	87	0.00
86	C	1,1,2,2-tetrachloroethane	3.481	3.101	10.9	86	0.00
87	C	o-xylene	4.779	4.535	5.1	87	0.00
88		1,2,3-trichloropropane	2.618	2.153	17.8	81	0.00
89		nonane	5.268	4.478	15.0	79	0.00
90	s	bromofluorobenzene	2.146	2.155	-0.4	101	0.00
91	C	isopropylbenzene	6.868	6.291	8.4	87	0.00
92		bromobenzene	3.092	2.605	15.8	81	0.00
93		2-chlorotoluene	1.678	1.491	11.1	83	0.00
94		n-propylbenzene	1.809	1.602	11.4	83	0.00
95		4-chlorotoluene	4.581	3.869	15.5	79	0.00
96		4-ethyl toluene	6.967	6.064	13.0	80	0.00
97		1,3,5-trimethylbenzene	5.928	5.517	6.9	87	0.00
98		tert-butylbenzene	6.566	6.071	7.5	85	0.00
99		1,2,4-trimethylbenzene	5.612	5.397	3.8	85	0.00
100		decane	4.667	4.060	13.0	80	0.00
101	C	Benzyl Chloride	3.607	3.363	6.8	86	0.00
102		1,3-dichlorobenzene	3.535	3.128	11.5	86	0.00
103	C	1,4-dichlorobenzene	3.456	3.074	11.1	85	0.00
104		sec-butylbenzene	9.022	8.183	9.3	83	0.00
106		p-isopropyltoluene	7.702	6.744	12.4	77	0.00
107		1,2-dichlorobenzene	3.447	3.067	11.0	85	0.00
108		n-butylbenzene	6.776	5.997	11.5	80	0.00
111	C	1,2-dibromo-3-chloropropane	1.597	1.271	20.4	73	0.00
112		undecane	5.305	4.913	7.4	78	0.00
114		dodecane	5.517	5.168	6.3	73	0.00
115	C	1,2,4-trichlorobenzene	2.624	2.413	8.0	80	0.00
116		naphthalene	6.498	5.791	10.9	77	0.00
117		1,2,3-trichlorobenzene	2.738	2.355	14.0	79	0.00
119	C	hexachlorobutadiene	3.357	3.299	1.7	87	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730778.D
Acq On : 29 Mar 2015 10:17 am
Operator : AIRLAB7:MB
Sample : CTO15-LLSTD010
Misc : WG771893
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 10:41:21 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.465	49	173124	10.000	ppbV	0.00
Standard Area = 171708			Recovery = 100.82%			
43) 1,4-difluorobenzene	12.546	114	287460	10.000	ppbV	0.00
Standard Area = 281554			Recovery = 102.10%			
67) chlorobenzene-D5	16.834	54	102371	10.000	ppbV	0.00
Standard Area = 105394			Recovery = 97.13%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	11.290	65	127587	9.521	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.21%			
69) toluene-D8	15.181	98	346195	10.364	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.64%			
90) bromofluorobenzene	18.002	95	220604	10.041	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.41%			
Target Compounds						Qvalue
2) chlorodifluoromethane	4.705	51	235904	7.840	ppbV	99
3) propylene	4.744	41	137565M6	8.871	ppbV	
4) propane	4.774	29	118648	6.457	ppbV	95
5) dichlorodifluoromethane	4.843	85	203688	8.546	ppbV	97
6) chloromethane	5.059	50	131803	8.350	ppbV	99
7) Freon-114	5.207	85	319978	9.768	ppbV	96
8) methanol	5.286	31	246323M4	38.397	ppbV	
9) vinyl chloride	5.365	62	120316	9.219	ppbV	97
10) 1,3-butadiene	5.552	54	108857M6	9.793	ppbV	
11) butane	5.631	43	229819	8.263	ppbV	98
13) bromomethane	5.913	94	109831	9.389	ppbV	93
14) chloroethane	6.152	64	54939	9.441	ppbV	95
15) ethanol	6.320	31	558962	40.437	ppbV	93
16) dichlorofluoromethane	6.288	67	235250	8.529	ppbV	98
17) vinyl bromide	6.600	106	113057	9.711	ppbV	98
18) acrolein	6.752	56	51626	8.782	ppbV	90
19) acetone	6.912	43	1252592	45.471	ppbV	96
20) acetonitrile	6.584	41	136739	8.437	ppbV	100
21) trichlorofluoromethane	7.128	101	336161	8.827	ppbV	100
22) isopropyl alcohol	7.239	45	289787	9.802	ppbV	99
23) acrylonitrile	7.495	53	102411	9.058	ppbV	98
24) pentane	7.575	43	274253	8.672	ppbV #	97
25) ethyl ether	7.607	31	196380	8.129	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730778.D
Acq On : 29 Mar 2015 10:17 am
Operator : AIRLAB7:MB
Sample : CTO15-LLSTD010
Misc : WG771893
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 10:41:21 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) 1,1-dichloroethene	7.903	61	214287	9.163	ppbV		95
27) tertiary butyl alcohol	7.967	59	252019	9.405	ppbV		95
28) methylene chloride	8.055	49	191036	8.575	ppbV		89
29) 3-chloropropene	8.191	41	230788	9.643	ppbV		94
30) carbon disulfide	8.367	76	322973	9.389	ppbV		95
31) Freon 113	8.367	101	251340	9.437	ppbV		97
32) trans-1,2-dichloroethene	9.131	61	183501	8.501	ppbV		96
33) 1,1-dichloroethane	9.356	63	229518	9.205	ppbV		99
34) MTBE	9.427	73	306510	9.592	ppbV		96
35) vinyl acetate	9.536	43	327636	10.634	ppbV	#	97
36) 2-butanone	9.799	43	358684	8.703	ppbV		97
37) cis-1,2-dichloroethene	10.287	61	182421	9.849	ppbV		94
38) Ethyl Acetate	10.540	61	39896	9.596	ppbV	#	26
39) chloroform	10.616	83	236351	8.976	ppbV		97
40) Tetrahydrofuran	11.035	42	182236M6	8.917	ppbV		
41) 2,2-dichloropropane	10.634	77	180898	8.407	ppbV		92
42) 1,2-dichloroethane	11.410	62	170704	8.503	ppbV		99
44) hexane	10.522	57	192975	9.295	ppbV		89
45) diisopropyl ether	10.512	87	74047	9.043	ppbV		89
46) tert-butyl ethyl ether	11.094	59	338211	8.758	ppbV		99
48) 1,1,1-trichloroethane	11.676	97	242471	9.074	ppbV		97
49) 1,1-dichloropropene	12.018	75	137419	9.072	ppbV		94
50) benzene	12.174	78	247721	8.879	ppbV		98
52) carbon tetrachloride	12.339	117	212468	8.866	ppbV		99
53) cyclohexane	12.474	56	160016	8.999	ppbV		96
54) tert-amyl methyl ether	12.816	73	270165	8.240	ppbV		97
55) dibromomethane	13.033	93	148933	8.546	ppbV		96
56) 1,2-dichloropropane	13.064	63	148239	9.142	ppbV		98
57) bromodichloromethane	13.272	83	298539	9.427	ppbV		99
58) 1,4-dioxane	13.313	88	83419	9.713	ppbV		96
59) trichloroethene	13.313	130	180581	9.459	ppbV		99
60) 2,2,4-trimethylpentane	13.344	57	759936	9.454	ppbV		95
61) methyl methacrylate	13.520	41	236840	9.438	ppbV		96
62) heptane	13.624	43	333231	9.170	ppbV		99
63) cis-1,3-dichloropropene	14.261	75	195047	10.313	ppbV		94
64) 4-methyl-2-pentanone	14.295	43	462843	9.180	ppbV		98
65) trans-1,3-dichloropropene	14.819	75	161182	8.618	ppbV		97
66) 1,1,2-trichloroethane	15.009	97	156042	9.678	ppbV		98
68) toluene	15.280	91	440718	9.158	ppbV		100
71) 1,3-dichloropropane	15.298	76	187476	8.540	ppbV		92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730778.D
Acq On : 29 Mar 2015 10:17 am
Operator : AIRLAB7:MB
Sample : CTO15-LLSTD010
Misc : WG771893
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 10:41:21 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72) 2-hexanone	15.515	43	432249	9.149	ppbV		96
74) dibromochloromethane	15.687	129	306486	9.365	ppbV		99
75) 1,2-dibromoethane	15.913	107	237298	9.000	ppbV		95
76) butyl acetate	16.075	73	40477	9.343	ppbV		91
77) octane	16.157	85	111628	8.865	ppbV		94
78) tetrachloroethene	16.310	166	215378	9.287	ppbV		96
79) 1,1,1,2-tetrachloroethane	16.853	131	205037	8.784	ppbV		97
80) chlorobenzene	16.871	112	349063	9.134	ppbV		98
81) ethylbenzene	17.159	91	560560	9.321	ppbV		98
83) m+p-xylene	17.300	91	873518	18.519	ppbV		98
84) bromoform	17.377	173	255713	9.202	ppbV		99
85) styrene	17.573	104	318274	9.538	ppbV		99
86) 1,1,2,2-tetrachloroethane	17.654	83	317487	8.910	ppbV		98
87) o-xylene	17.658	91	464221	9.488	ppbV		98
88) 1,2,3-trichloropropane	17.754	75	220408	8.225	ppbV		98
89) nonane	17.795	43	458465	8.501	ppbV		97
91) isopropylbenzene	18.094	105	644032	9.159	ppbV		99
92) bromobenzene	18.176	77	266726	8.427	ppbV		97
93) 2-chlorotoluene	18.453	126	152633	8.886	ppbV	#	64
94) n-propylbenzene	18.467	120	163995	8.857	ppbV		87
95) 4-chlorotoluene	18.504	91	396044	8.445	ppbV		98
96) 4-ethyl toluene	18.571	105	620741M6	8.703	ppbV		
97) 1,3,5-trimethylbenzene	18.623	105	564736	9.306	ppbV		100
98) tert-butylbenzene	18.930	119	621519	9.247	ppbV		100
99) 1,2,4-trimethylbenzene	18.930	105	552453	9.616	ppbV		97
100) decane	18.971	57	415625	8.700	ppbV		93
101) Benzyl Chloride	19.044	91	344311	9.324	ppbV		97
102) 1,3-dichlorobenzene	19.059	146	320180	8.848	ppbV		98
103) 1,4-dichlorobenzene	19.107	146	314666	8.894	ppbV		98
104) sec-butylbenzene	19.126	105	837705	9.070	ppbV		99
106) p-isopropyltoluene	19.236	119	690357	8.756	ppbV		99
107) 1,2-dichlorobenzene	19.369	146	313990	8.899	ppbV		99
108) n-butylbenzene	19.553	91	613932	8.850	ppbV		99
111) 1,2-dibromo-3-chloropr...	19.712	75	130136	7.959	ppbV		91
112) undecane	19.911	57	502983	9.261	ppbV		96
114) dodecane	20.792	57	529081	9.367	ppbV		96
115) 1,2,4-trichlorobenzene	20.784	180	247052	9.197	ppbV		98
116) naphthalene	20.904	128	592812	8.912	ppbV		100
117) 1,2,3-trichlorobenzene	21.152	180	241046	8.601	ppbV		97
119) hexachlorobutadiene	21.203	225	337734	9.829	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730778.D
Acq On : 29 Mar 2015 10:17 am
Operator : AIRLAB7:MB
Sample : CTO15-LLSTD010
Misc : WG771893
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 10:41:21 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\R730772.D
Sub List : Default-ICV-AP2 - All compounds listed

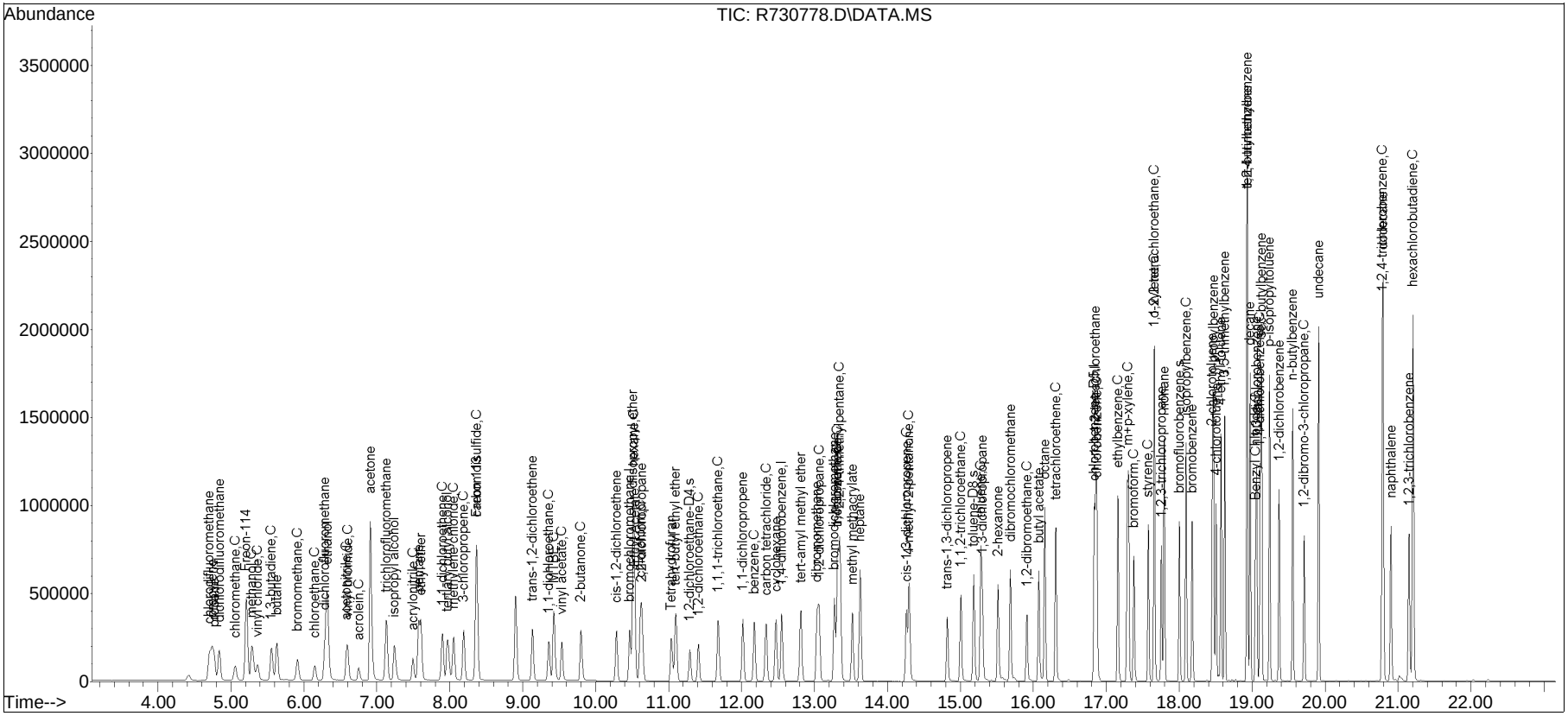
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listed_ICAL\R730772.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\
Data File : R730778.D
Acq On : 29 Mar 2015 10:17 am
Operator : AIRLAB7:MB
Sample : CTO15-LLSTD010
Misc : WG771893
ALS Vial : 2 Sample Multiplier: 1

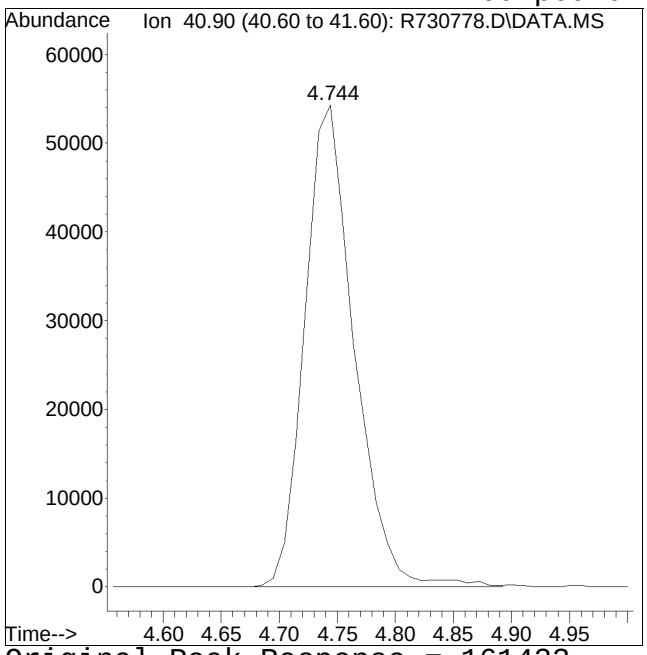
Quant Time: Mar 29 10:41:21 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328T_ICAL\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration



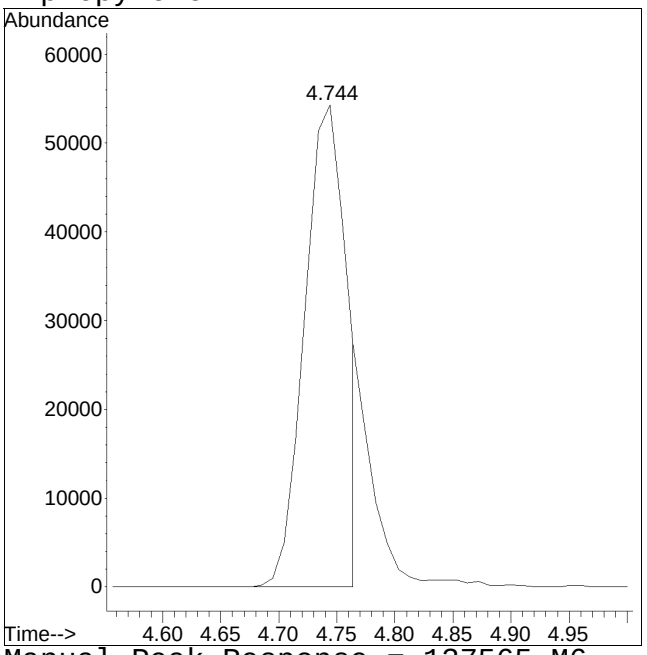
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730778.D Operator : AIRLAB7:MB
Date Inj'd : 3/29/2015 10:17 am Instrument : Airlab 7
Sample : CTO15-LLSTD010 Quant Date : 3/29/2015 10:40 am

Compound #3: propylene



Original Peak Response = 161423



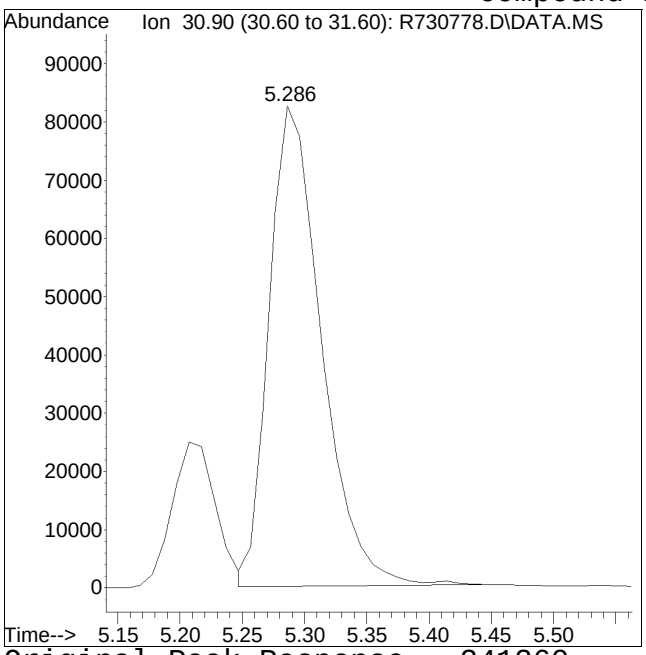
Manual Peak Response = 137565 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

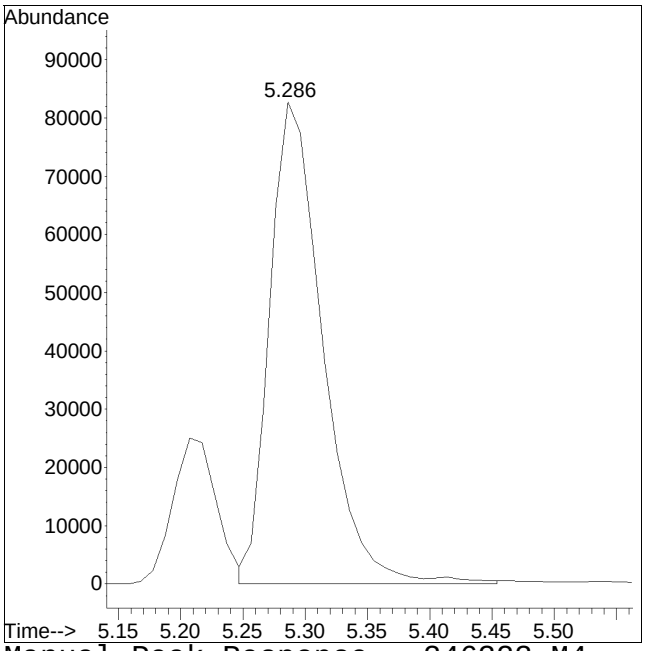
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730778.D Operator : AIRLAB7:MB
Date Inj'd : 3/29/2015 10:17 am Instrument : Airlab 7
Sample : CTO15-LLSTD010 Quant Date : 3/29/2015 10:40 am

Compound #8: methanol



Original Peak Response = 241260



Manual Peak Response = 246323 M4

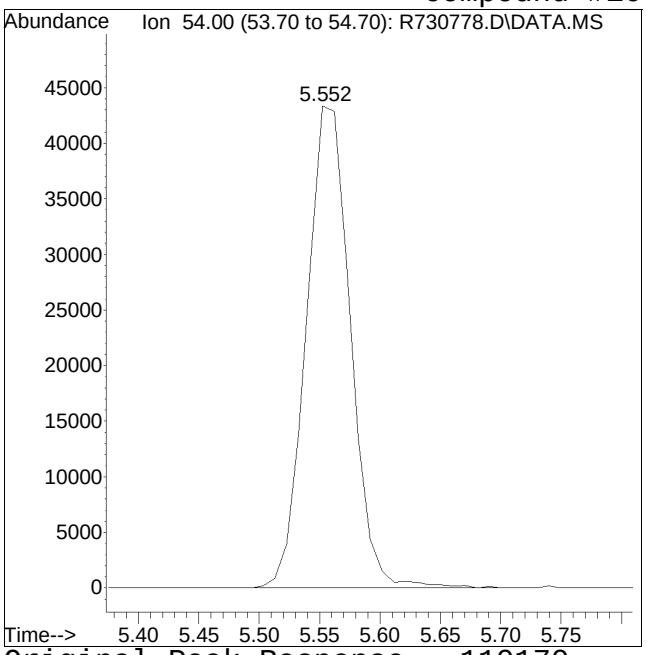
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

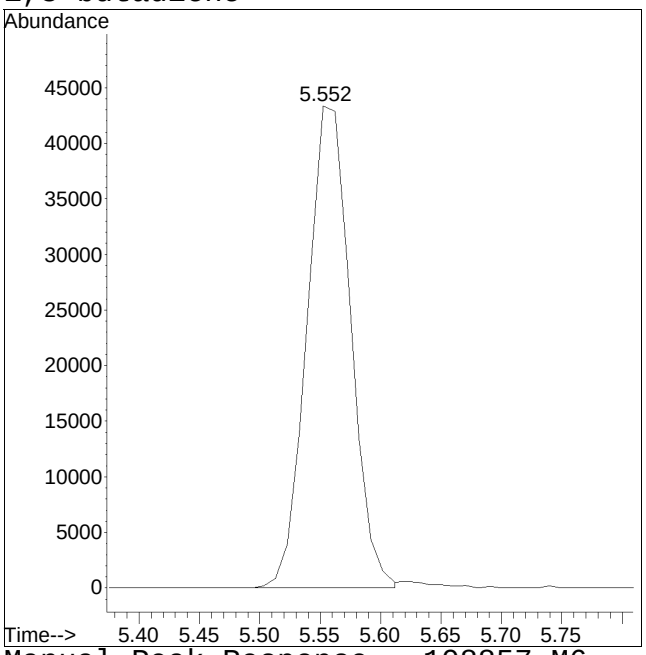
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730778.D
Date Inj'd : 3/29/2015 10:17 am
Sample : CTO15-LLSTD010

Method : TALL150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 10:40 am

Compound #10: 1,3-butadiene



Original Peak Response = 110170



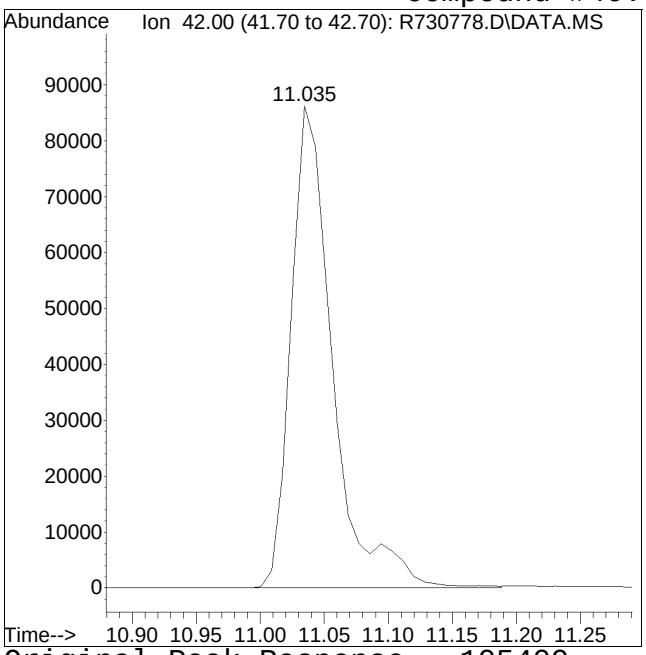
Manual Peak Response = 108857 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

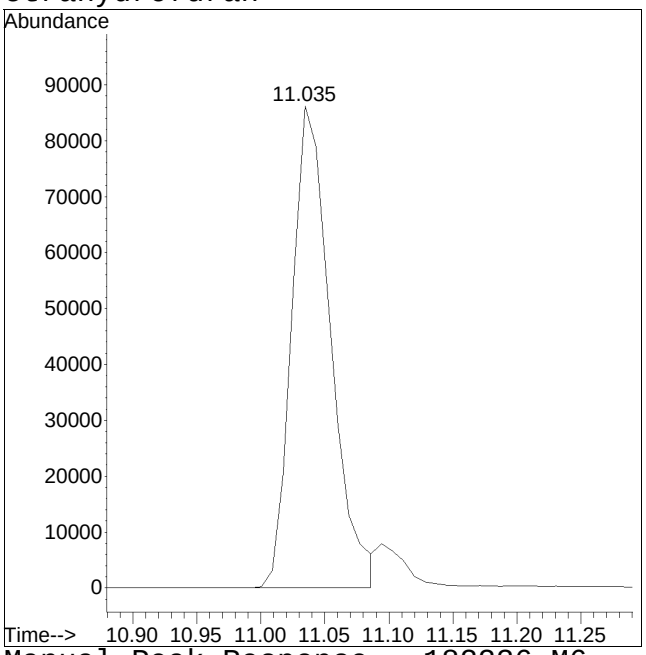
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730778.D Operator : AIRLAB7:MB
Date Inj'd : 3/29/2015 10:17 am Instrument : Airlab 7
Sample : CTO15-LLSTD010 Quant Date : 3/29/2015 10:40 am

Compound #40: Tetrahydrofuran



Original Peak Response = 195409



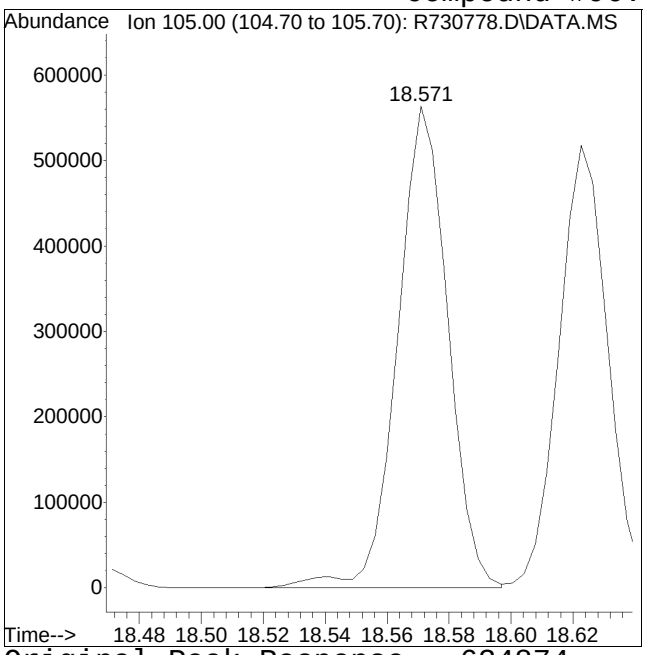
Manual Peak Response = 182236 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

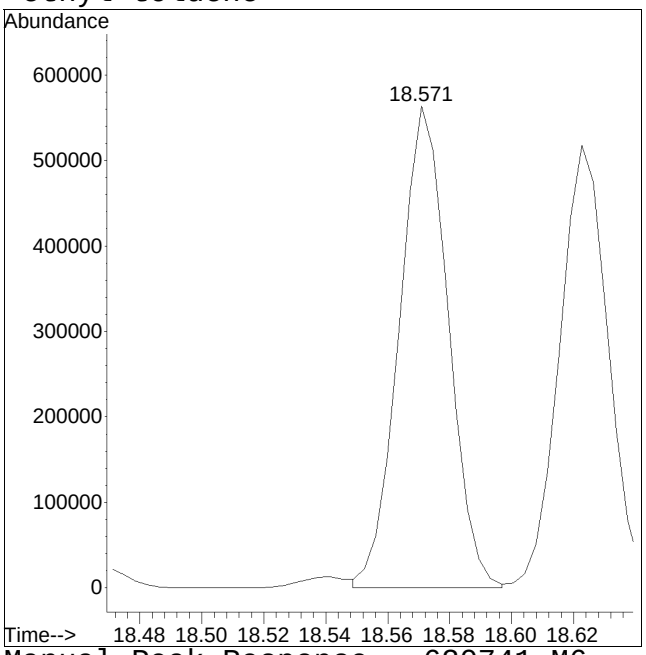
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730778.D Operator : AIRLAB7:MB
Date Inj'd : 3/29/2015 10:17 am Instrument : Airlab 7
Sample : CTO15-LLSTD010 Quant Date : 3/29/2015 10:40 am

Compound #96: 4-ethyl toluene



Original Peak Response = 634874



Manual Peak Response = 620741 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Continuing Calibration

7A

Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Instrument ID: AIRLAB7 Calibration Date: 04/01/2015 Time: 12:25

Lab File ID: R730851 Init. Calib. Date(s): 03/28/15 03/28/15

Sample No: WG772680-2,3,25 Init. Calib. Times : 16:36 20:26

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	81	0.00
2		chlorodifluoromethane	1.738	1.635	5.9	75	0.00
3		propylene	0.896	0.897	-0.1	79	0.00
4		propane	1.061	0.827	22.1	61	0.00
5		dichlorodifluoromethane	1.377	1.274	7.5	68	0.00
6	C	chloromethane	0.912	0.856	6.1	78	0.00
7		Freon-114	1.892	1.942	-2.6	76	0.00
8	C	methanol	0.371	0.346	6.7	70	0.00
9	C	vinyl chloride	0.754	0.721	4.4	75	0.00
10	C	1,3-butadiene	0.642	0.639	0.5	77	0.00
11		butane	1.607	1.502	6.5	75	0.00
13	C	bromomethane	0.676	0.655	3.1	79	0.00
14	C	chloroethane	0.336	0.330	1.8	75	0.00
15		ethanol	0.798	0.762	4.5	72	0.00
16		dichlorofluoromethane	1.593	1.542	3.2	76	0.00
17	C	vinyl bromide	0.672	0.670	0.3	79	0.00
18	C	acrolein	0.340	0.325	4.4	75	0.00
19		acetone	1.591	1.567	1.5	79	0.00
20	C	acetonitrile	0.936	0.896	4.3	74	0.00
21		trichlorofluoromethane	2.200	2.161	1.8	79	0.00
22		isopropyl alcohol	1.708	1.663	2.6	76	0.00
23	C	acrylonitrile	0.653	0.635	2.8	77	0.00
24		pentane	1.827	1.799	1.5	76	0.00
25		ethyl ether	1.395	1.340	3.9	74	0.00
26	C	1,1-dichloroethene	1.351	1.301	3.7	77	0.00
27		tertiary butyl alcohol	1.548	1.508	2.6	76	0.00
28	C	methylene chloride	1.287	1.243	3.4	80	0.00
29	C	3-chloropropene	1.382	1.374	0.6	79	0.00
30	C	carbon disulfide	1.987	1.995	-0.4	80	0.00
31		Freon 113	1.538	1.546	-0.5	82	0.00
32		trans-1,2-dichloroethene	1.247	1.221	2.1	79	0.00
33	C	1,1-dichloroethane	1.440	1.418	1.5	80	0.00
34	C	MTBE	1.846	1.813	1.8	80	0.00
35	C	vinyl acetate	1.780	1.831	-2.9	85	0.00
36	C	2-butanone	2.381	2.345	1.5	79	0.00
37		cis-1,2-dichloroethene	1.070	1.062	0.7	80	0.00
38		Ethyl Acetate	0.240	0.241	-0.4	79	0.00
39	C	chloroform	1.521	1.502	1.2	80	0.00
40		Tetrahydrofuran	1.181	1.210	-2.5	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	1.243	1.242	0.1	80	0.00
42	C	1,2-dichloroethane	1.160	1.184	-2.1	80	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	83	0.00
44	C	hexane	0.722	0.711	1.5	80	0.00
45		diisopropyl ether	0.285	0.278	2.5	79	0.00
46		tert-butyl ethyl ether	1.343	1.310	2.5	79	0.00
48	C	1,1,1-trichloroethane	0.930	0.952	-2.4	78	0.00
49		1,1-dichloropropene	0.527	0.518	1.7	78	0.00
50	C	benzene	0.971	0.951	2.1	81	0.00
52	C	carbon tetrachloride	0.834	0.888	-6.5	83	0.00
53		cyclohexane	0.619	0.622	-0.5	81	0.00
54		tert-amyl methyl ether	1.141	1.126	1.3	79	0.01
55		dibromomethane	0.606	0.596	1.7	80	0.00
56	C	1,2-dichloropropane	0.564	0.560	0.7	80	0.00
57		bromodichloromethane	1.102	1.153	-4.6	83	0.00
58	C	1,4-dioxane	0.299	0.319	-6.7	84	0.00
59	C	trichloroethene	0.664	0.669	-0.8	81	0.00
60	C	2,2,4-trimethylpentane	2.796	2.853	-2.0	79	0.00
61		methyl methacrylate	0.873	0.914	-4.7	81	0.00
62		heptane	1.264	1.261	0.2	79	0.00
63	C	cis-1,3-dichloropropene	0.658	0.686	-4.3	79	0.00
64	C	4-methyl-2-pentanone	1.754	1.801	-2.7	79	0.00
65		trans-1,3-dichloropropene	0.651	0.679	-4.3	77	0.00
66	C	1,1,2-trichloroethane	0.561	0.570	-1.6	80	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	79	0.00
68	C	toluene	4.701	4.619	1.7	79	0.00
71		1,3-dichloropropane	2.144	2.096	2.2	79	0.00
72		2-hexanone	4.615	4.844	-5.0	78	0.00
74		dibromochloromethane	3.197	3.328	-4.1	81	0.00
75	C	1,2-dibromoethane	2.575	2.549	1.0	79	0.00
76		butyl acetate	0.423	0.461	-9.0	79	0.00
77		octane	1.230	1.237	-0.6	81	0.00
78	C	tetrachloroethene	2.265	2.256	0.4	82	0.00
79		1,1,1,2-tetrachloroethane	2.280	2.256	1.1	79	0.00
80	C	chlorobenzene	3.733	3.698	0.9	80	0.00
81	C	ethylbenzene	5.875	5.929	-0.9	78	0.00
83	C	m+p-xylene	4.608	4.710	-2.2	79	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84	C	bromoform	2.715	2.846	-4.8	81	0.00
85	C	styrene	3.260	3.444	-5.6	79	0.00
86	C	1,1,2,2-tetrachloroethane	3.481	3.500	-0.5	79	0.00
87	C	o-xylene	4.779	4.986	-4.3	78	0.00
88		1,2,3-trichloropropane	2.618	2.487	5.0	76	0.00
89		nonane	5.268	5.307	-0.7	76	0.00
91	C	isopropylbenzene	6.868	7.040	-2.5	79	0.00
92		bromobenzene	3.092	2.987	3.4	76	0.00
93		2-chlorotoluene	1.678	1.705	-1.6	77	0.00
94		n-propylbenzene	1.809	1.847	-2.1	78	0.00
95		4-chlorotoluene	4.581	4.543	0.8	76	0.00
96		4-ethyl toluene	6.967	7.295	-4.7	79	0.00
97		1,3,5-trimethylbenzene	5.928	6.146	-3.7	79	0.00
98		tert-butylbenzene	6.566	6.942	-5.7	79	0.00
99		1,2,4-trimethylbenzene	5.612	6.084	-8.4	78	0.00
100		decane	4.667	4.770	-2.2	76	0.00
101	C	Benzyl Chloride	3.607	3.597	0.3	75	0.00
102		1,3-dichlorobenzene	3.535	3.550	-0.4	79	0.00
103	C	1,4-dichlorobenzene	3.456	3.490	-1.0	78	0.00
104		sec-butylbenzene	9.022	9.375	-3.9	78	0.00
106		p-isopropyltoluene	7.702	8.268	-7.3	77	0.00
107		1,2-dichlorobenzene	3.447	3.425	0.6	77	0.00
108		n-butylbenzene	6.776	6.876	-1.5	75	0.00
111	C	1,2-dibromo-3-chloropropane	1.597	1.484	7.1	69	0.00
112		undecane	5.305	5.559	-4.8	72	0.00
114		dodecane	5.517	6.053	-9.7	70	0.00
115	C	1,2,4-trichlorobenzene	2.624	2.813	-7.2	76	0.00
116		naphthalene	6.498	6.044	7.0	66	0.00
117		1,2,3-trichlorobenzene	2.738	2.468	9.9	67	0.00
119	C	hexachlorobutadiene	3.357	3.708	-10.5	79	0.00

* Evaluation of CC level amount vs concentration.

FORM VII TO15-LL

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	81	0.00
2		chlorodifluoromethane	1.738	1.635	5.9	75	0.00
3		propylene	0.896	0.897	-0.1	79	0.00
4		propane	1.061	0.827	22.1	61	0.00
5		dichlorodifluoromethane	1.377	1.274	7.5	68	0.00
6	C	chloromethane	0.912	0.856	6.1	78	0.00
7		Freon-114	1.892	1.942	-2.6	76	0.00
8	C	methanol	0.371	0.346	6.7	70	0.00
9	C	vinyl chloride	0.754	0.721	4.4	75	0.00
10	C	1,3-butadiene	0.642	0.639	0.5	77	0.00
11		butane	1.607	1.502	6.5	75	0.00
13	C	bromomethane	0.676	0.655	3.1	79	0.00
14	C	chloroethane	0.336	0.330	1.8	75	0.00
15		ethanol	0.798	0.762	4.5	72	0.00
16		dichlorofluoromethane	1.593	1.542	3.2	76	0.00
17	C	vinyl bromide	0.672	0.670	0.3	79	0.00
18	C	acrolein	0.340	0.325	4.4	75	0.00
19		acetone	1.591	1.567	1.5	79	0.00
20	C	acetonitrile	0.936	0.896	4.3	74	0.00
21		trichlorofluoromethane	2.200	2.161	1.8	79	0.00
22		isopropyl alcohol	1.708	1.663	2.6	76	0.00
23	C	acrylonitrile	0.653	0.635	2.8	77	0.00
24		pentane	1.827	1.799	1.5	76	0.00
25		ethyl ether	1.395	1.340	3.9	74	0.00
26	C	1,1-dichloroethene	1.351	1.301	3.7	77	0.00
27		tertiary butyl alcohol	1.548	1.508	2.6	76	0.00
28	C	methylene chloride	1.287	1.243	3.4	80	0.00
29	C	3-chloropropene	1.382	1.374	0.6	79	0.00
30	C	carbon disulfide	1.987	1.995	-0.4	80	0.00
31		Freon 113	1.538	1.546	-0.5	82	0.00
32		trans-1,2-dichloroethene	1.247	1.221	2.1	79	0.00
33	C	1,1-dichloroethane	1.440	1.418	1.5	80	0.00
34	C	MTBE	1.846	1.813	1.8	80	0.00
35	C	vinyl acetate	1.780	1.831	-2.9	85	0.00
36	C	2-butanone	2.381	2.345	1.5	79	0.00
37		cis-1,2-dichloroethene	1.070	1.062	0.7	80	0.00
38		Ethyl Acetate	0.240	0.241	-0.4	79	0.00
39	C	chloroform	1.521	1.502	1.2	80	0.00
40		Tetrahydrofuran	1.181	1.210	-2.5	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	1.243	1.242	0.1	80	0.00
42	C	1,2-dichloroethane	1.160	1.184	-2.1	80	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	83	0.00
44	C	hexane	0.722	0.711	1.5	80	0.00
45		diisopropyl ether	0.285	0.278	2.5	79	0.00
46		tert-butyl ethyl ether	1.343	1.310	2.5	79	0.00
48	C	1,1,1-trichloroethane	0.930	0.952	-2.4	78	0.00
49		1,1-dichloropropene	0.527	0.518	1.7	78	0.00
50	C	benzene	0.971	0.951	2.1	81	0.00
52	C	carbon tetrachloride	0.834	0.888	-6.5	83	0.00
53		cyclohexane	0.619	0.622	-0.5	81	0.00
54		tert-amyl methyl ether	1.141	1.126	1.3	79	0.01
55		dibromomethane	0.606	0.596	1.7	80	0.00
56	C	1,2-dichloropropane	0.564	0.560	0.7	80	0.00
57		bromodichloromethane	1.102	1.153	-4.6	83	0.00
58	C	1,4-dioxane	0.299	0.319	-6.7	84	0.00
59	C	trichloroethene	0.664	0.669	-0.8	81	0.00
60	C	2,2,4-trimethylpentane	2.796	2.853	-2.0	79	0.00
61		methyl methacrylate	0.873	0.914	-4.7	81	0.00
62		heptane	1.264	1.261	0.2	79	0.00
63	C	cis-1,3-dichloropropene	0.658	0.686	-4.3	79	0.00
64	C	4-methyl-2-pentanone	1.754	1.801	-2.7	79	0.00
65		trans-1,3-dichloropropene	0.651	0.679	-4.3	77	0.00
66	C	1,1,2-trichloroethane	0.561	0.570	-1.6	80	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	79	0.00
68	C	toluene	4.701	4.619	1.7	79	0.00
71		1,3-dichloropropane	2.144	2.096	2.2	79	0.00
72		2-hexanone	4.615	4.844	-5.0	78	0.00
74		dibromochloromethane	3.197	3.328	-4.1	81	0.00
75	C	1,2-dibromoethane	2.575	2.549	1.0	79	0.00
76		butyl acetate	0.423	0.461	-9.0	79	0.00
77		octane	1.230	1.237	-0.6	81	0.00
78	C	tetrachloroethene	2.265	2.256	0.4	82	0.00
79		1,1,1,2-tetrachloroethane	2.280	2.256	1.1	79	0.00
80	C	chlorobenzene	3.733	3.698	0.9	80	0.00
81	C	ethylbenzene	5.875	5.929	-0.9	78	0.00
83	C	m+p-xylene	4.608	4.710	-2.2	79	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84	C	bromoform	2.715	2.846	-4.8	81	0.00
85	C	styrene	3.260	3.444	-5.6	79	0.00
86	C	1,1,2,2-tetrachloroethane	3.481	3.500	-0.5	79	0.00
87	C	o-xylene	4.779	4.986	-4.3	78	0.00
88		1,2,3-trichloropropane	2.618	2.487	5.0	76	0.00
89		nonane	5.268	5.307	-0.7	76	0.00
91	C	isopropylbenzene	6.868	7.040	-2.5	79	0.00
92		bromobenzene	3.092	2.987	3.4	76	0.00
93		2-chlorotoluene	1.678	1.705	-1.6	77	0.00
94		n-propylbenzene	1.809	1.847	-2.1	78	0.00
95		4-chlorotoluene	4.581	4.543	0.8	76	0.00
96		4-ethyl toluene	6.967	7.295	-4.7	79	0.00
97		1,3,5-trimethylbenzene	5.928	6.146	-3.7	79	0.00
98		tert-butylbenzene	6.566	6.942	-5.7	79	0.00
99		1,2,4-trimethylbenzene	5.612	6.084	-8.4	78	0.00
100		decane	4.667	4.770	-2.2	76	0.00
101	C	Benzyl Chloride	3.607	3.597	0.3	75	0.00
102		1,3-dichlorobenzene	3.535	3.550	-0.4	79	0.00
103	C	1,4-dichlorobenzene	3.456	3.490	-1.0	78	0.00
104		sec-butylbenzene	9.022	9.375	-3.9	78	0.00
106		p-isopropyltoluene	7.702	8.268	-7.3	77	0.00
107		1,2-dichlorobenzene	3.447	3.425	0.6	77	0.00
108		n-butylbenzene	6.776	6.876	-1.5	75	0.00
111	C	1,2-dibromo-3-chloropropane	1.597	1.484	7.1	69	0.00
112		undecane	5.305	5.559	-4.8	72	0.00
114		dodecane	5.517	6.053	-9.7	70	0.00
115	C	1,2,4-trichlorobenzene	2.624	2.813	-7.2	76	0.00
116		naphthalene	6.498	6.044	7.0	66	0.00
117		1,2,3-trichlorobenzene	2.738	2.468	9.9	67	0.00
119	C	hexachlorobutadiene	3.357	3.708	-10.5	79	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	138435	10.000	ppbV	0.00
43) 1,4-difluorobenzene	12.55	114	232924	10.000	ppbV	0.00
67) chlorobenzene-D5	16.83	54	83341	10.000	ppbV	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	4.70	51	226390	9.410	ppbV	100
3) propylene	4.74	41	124114M6	10.009	ppbV	
4) propane	4.77	29	114448	7.789	ppbV	97
5) dichlorodifluoromethane	4.84	85	176330	9.252	ppbV	97
6) chloromethane	5.06	50	118554	9.393	ppbV	98
7) Freon-114	5.21	85	268819	10.262	ppbV	98
8) methanol	5.30	31	239288	46.647	ppbV	95
9) vinyl chloride	5.36	62	99839	9.567	ppbV	97
10) 1,3-butadiene	5.56	54	88464	9.952	ppbV	92
11) butane	5.63	43	207993	9.352	ppbV	97
13) bromomethane	5.91	94	90625	9.689	ppbV	96
14) chloroethane	6.15	64	45725	9.826	ppbV	96
15) ethanol	6.32	31	527706	47.742	ppbV	96
16) dichlorofluoromethane	6.29	67	213485	9.679	ppbV	100
17) vinyl bromide	6.60	106	92720	9.960	ppbV	99
18) acrolein	6.75	56	45025	9.578	ppbV	97
19) acetone	6.91	43	1084324	49.226	ppbV	100
20) acetonitrile	6.58	41	124033	9.570	ppbV	100
21) trichlorofluoromethane	7.13	101	299129	9.823	ppbV	99
22) isopropyl alcohol	7.25	45	230195	9.738	ppbV	99
23) acrylonitrile	7.50	53	87972	9.731	ppbV	98
24) pentane	7.58	43	248988	9.846	ppbV	99
25) ethyl ether	7.61	31	185453	9.600	ppbV	98
26) 1,1-dichloroethene	7.90	61	180108	9.631	ppbV	94
27) tertiary butyl alcohol	7.97	59	208787	9.744	ppbV	99
28) methylene chloride	8.05	49	172114	9.661	ppbV	99
29) 3-chloropropene	8.19	41	190188	9.938	ppbV	96
30) carbon disulfide	8.37	76	276196	10.041	ppbV	99
31) Freon 113	8.37	101	214023	10.050	ppbV	96
32) trans-1,2-dichloroethene	9.14	61	169003	9.791	ppbV	99
33) 1,1-dichloroethane	9.36	63	196341	9.847	ppbV	99
34) MTBE	9.43	73	250944	9.821	ppbV	100
35) vinyl acetate	9.54	43	253522	10.290	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 2-butanone	9.80	43	324697	9.852	ppbV		99
37) cis-1,2-dichloroethene	10.29	61	146967	9.923	ppbV		98
38) Ethyl Acetate	10.54	61	33360	10.034	ppbV	#	43
39) chloroform	10.62	83	207958	9.876	ppbV		99
40) Tetrahydrofuran	11.03	42	167509M6	10.250	ppbV		
41) 2,2-dichloropropane	10.63	77	171933	9.993	ppbV		99
42) 1,2-dichloroethane	11.41	62	163850	10.207	ppbV		99
44) hexane	10.52	57	165695	9.850	ppbV		95
45) diisopropyl ether	10.52	87	64808	9.768	ppbV		93
46) tert-butyl ethyl ether	11.10	59	305106	9.750	ppbV		99
48) 1,1,1-trichloroethane	11.68	97	221664	10.237	ppbV		99
49) 1,1-dichloropropene	12.02	75	120741	9.837	ppbV		94
50) benzene	12.17	78	221591	9.803	ppbV		99
52) carbon tetrachloride	12.34	117	206917	10.656	ppbV		99
53) cyclohexane	12.47	56	144851	10.054	ppbV		97
54) tert-amyl methyl ether	12.82	73	262251	9.871	ppbV		98
55) dibromomethane	13.03	93	138931	9.838	ppbV		98
56) 1,2-dichloropropane	13.06	63	130336	9.920	ppbV		100
57) bromodichloromethane	13.27	83	268565	10.466	ppbV		99
58) 1,4-dioxane	13.31	88	74193	10.661	ppbV		97
59) trichloroethene	13.31	130	155793	10.072	ppbV		96
60) 2,2,4-trimethylpentane	13.34	57	664483	10.202	ppbV		98
61) methyl methacrylate	13.52	41	212961	10.473	ppbV		98
62) heptane	13.62	43	293680	9.974	ppbV		99
63) cis-1,3-dichloropropene	14.26	75	159836	10.430	ppbV		97
64) 4-methyl-2-pentanone	14.29	43	419510	10.268	ppbV		100
65) trans-1,3-dichloropropene	14.82	75	158154	10.436	ppbV		98
66) 1,1,2-trichloroethane	15.01	97	132879	10.171	ppbV		98
68) toluene	15.28	91	384949	9.826	ppbV		98
71) 1,3-dichloropropane	15.30	76	174643	9.772	ppbV		96
72) 2-hexanone	15.52	43	403685	10.495	ppbV		100
74) dibromochloromethane	15.69	129	277319	10.409	ppbV		98
75) 1,2-dibromoethane	15.91	107	212468	9.899	ppbV		97
76) butyl acetate	16.08	73	38453	10.903	ppbV		94
77) octane	16.16	85	103114	10.058	ppbV		95
78) tetrachloroethene	16.31	166	188003	9.958	ppbV		98
79) 1,1,1,2-tetrachloroethane	16.85	131	188042	9.896	ppbV		99
80) chlorobenzene	16.87	112	308234	9.907	ppbV		100
81) ethylbenzene	17.16	91	494129	10.092	ppbV		98
83) m+p-xylene	17.30	91	785069	20.445	ppbV		100
84) bromoform	17.38	173	237205	10.485	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) styrene	17.58	104	287049	10.567	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.65	83	291721	10.057	ppbV	99
87) o-xylene	17.66	91	415552	10.433	ppbV	98
88) 1,2,3-trichloropropane	17.75	75	207282	9.501	ppbV	99
89) nonane	17.79	43	442261	10.073	ppbV	98
91) isopropylbenzene	18.09	105	586732	10.250	ppbV	99
92) bromobenzene	18.18	77	248900	9.659	ppbV	97
93) 2-chlorotoluene	18.46	126	142079	10.160	ppbV	94
94) n-propylbenzene	18.47	120	153914	10.211	ppbV	93
95) 4-chlorotoluene	18.50	91	378578	9.916	ppbV	99
96) 4-ethyl toluene	18.57	105	607947	10.470	ppbV	98
97) 1,3,5-trimethylbenzene	18.62	105	512179	10.367	ppbV	99
98) tert-butylbenzene	18.93	119	578531	10.573	ppbV	99
99) 1,2,4-trimethylbenzene	18.93	105	507041	10.840	ppbV	99
100) decane	18.97	57	397520	10.221	ppbV	98
101) Benzyl Chloride	19.04	91	299769	9.971	ppbV	97
102) 1,3-dichlorobenzene	19.06	146	295876	10.043	ppbV	99
103) 1,4-dichlorobenzene	19.11	146	290891	10.099	ppbV	98
104) sec-butylbenzene	19.13	105	781292	10.390	ppbV	100
106) p-isopropyltoluene	19.24	119	689066	10.735	ppbV	100
107) 1,2-dichlorobenzene	19.37	146	285462	9.937	ppbV	99
108) n-butylbenzene	19.55	91	573085	10.148	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.71	75	123653	9.290	ppbV	96
112) undecane	19.91	57	463286	10.478	ppbV	100
114) dodecane	20.79	57	504499	10.972	ppbV	97
115) 1,2,4-trichlorobenzene	20.78	180	234404	10.719	ppbV	98
116) naphthalene	20.90	128	503685	9.301	ppbV	98
117) 1,2,3-trichlorobenzene	21.14	180	205690	9.015	ppbV	97
119) hexachlorobutadiene	21.20	225	309053	11.048	ppbV	99

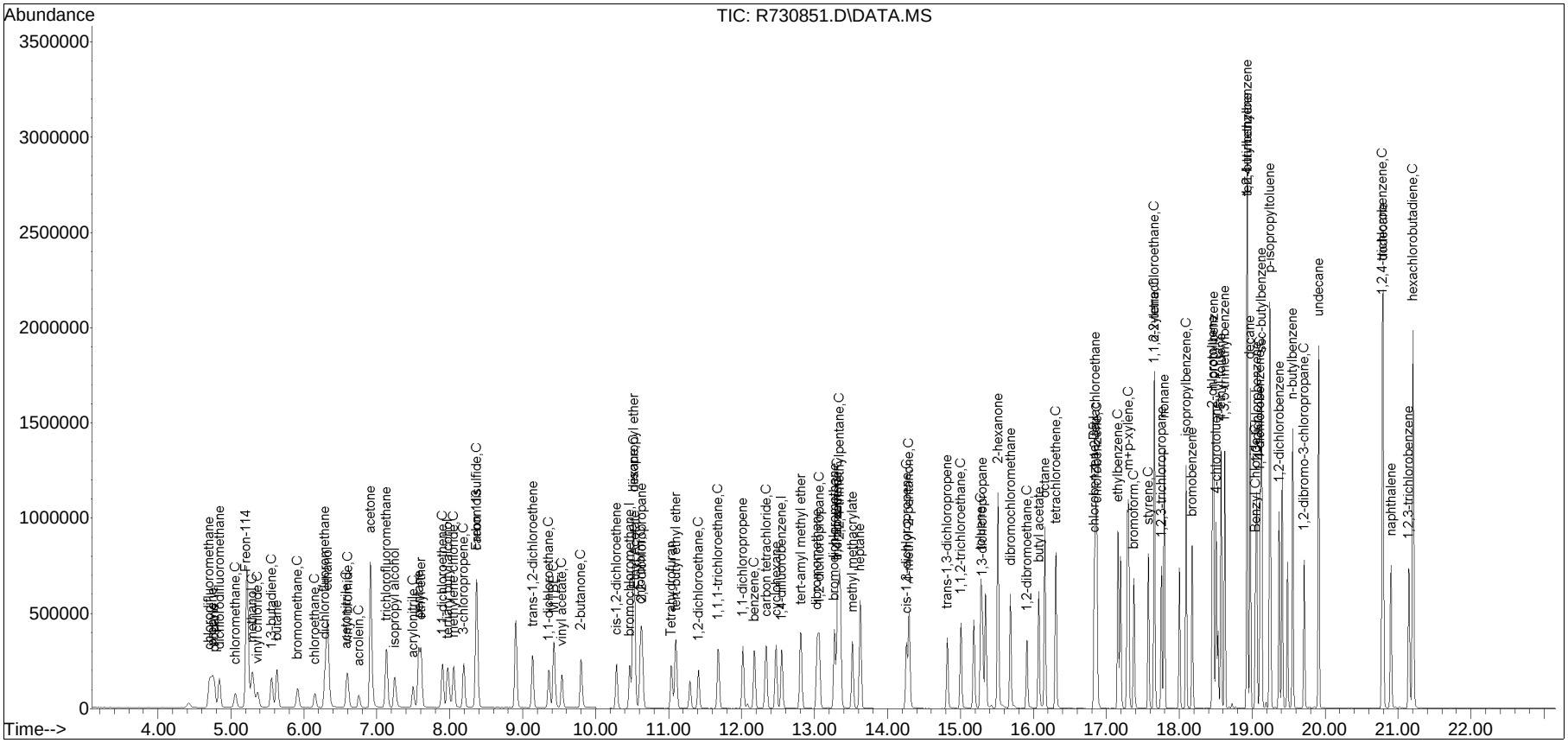
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730851.D
Acq On : 1 Apr 2015 12:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-2,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 13:00:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

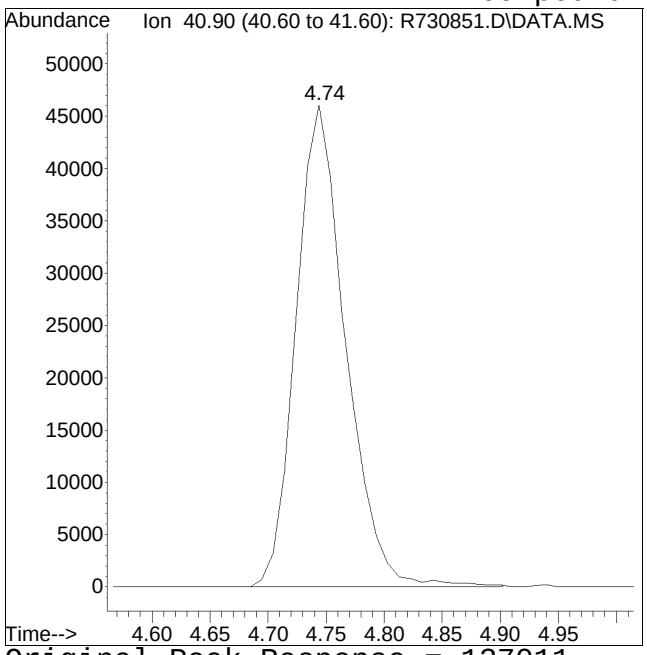
Sub List : Default-LCS-AP2 - All compounds listed



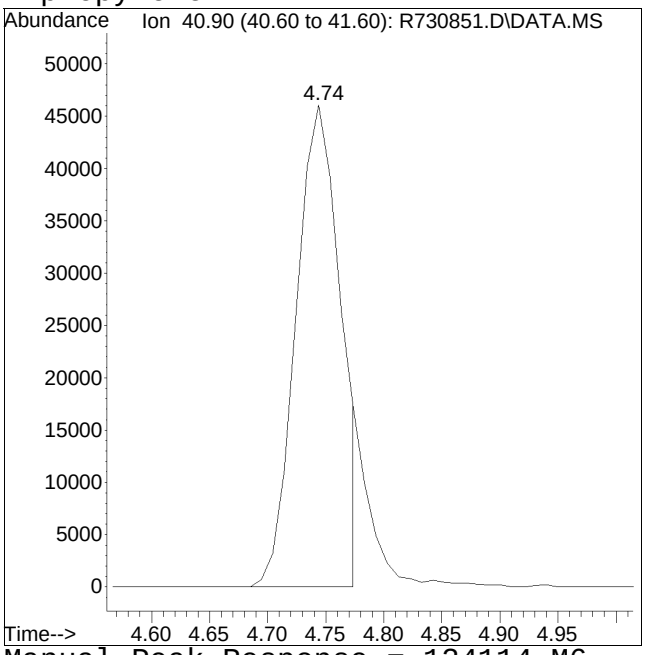
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730851.D Operator : AIRLAB7:RY
Date Inj'd : 4/1/2015 12:25 pm Instrument : Airlab 7
Sample : WG772680-2,3,250,250 Quant Date : 4/1/2015 1:00 pm

Compound #3: propylene



Original Peak Response = 137011



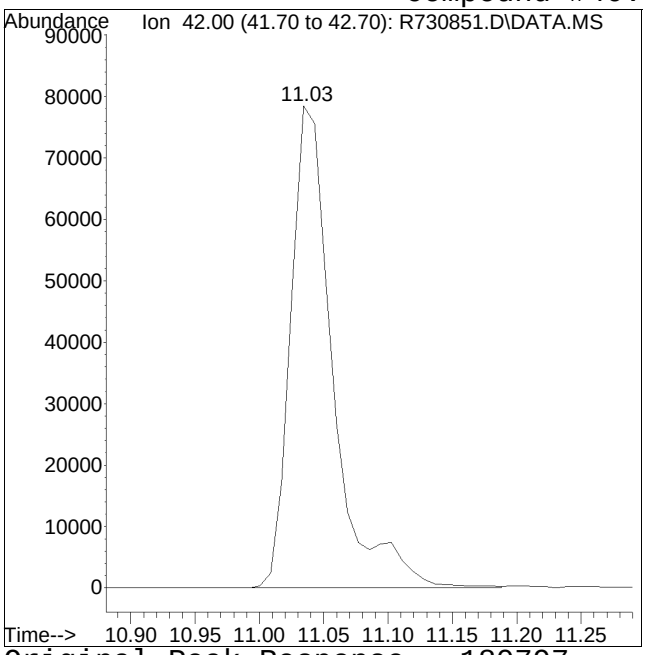
Manual Peak Response = 124114 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

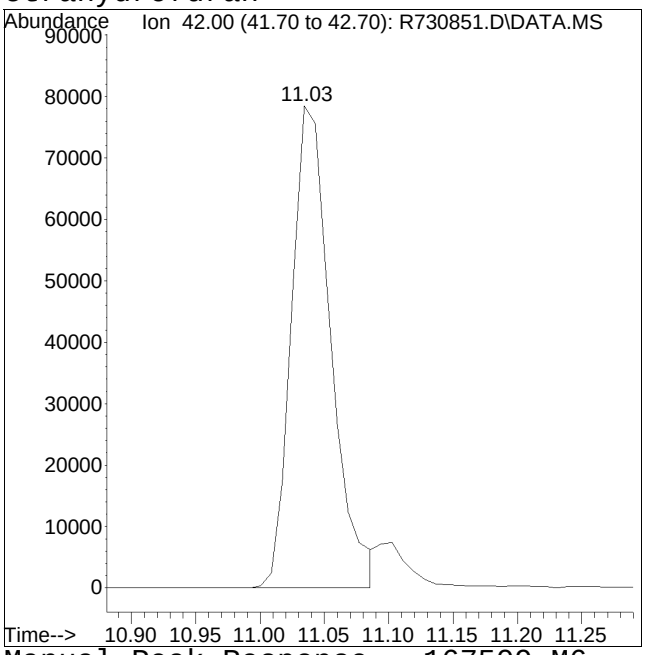
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730851.D Operator : AIRLAB7:RY
Date Inj'd : 4/1/2015 12:25 pm Instrument : Airlab 7
Sample : WG772680-2,3,250,250 Quant Date : 4/1/2015 1:00 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 180797



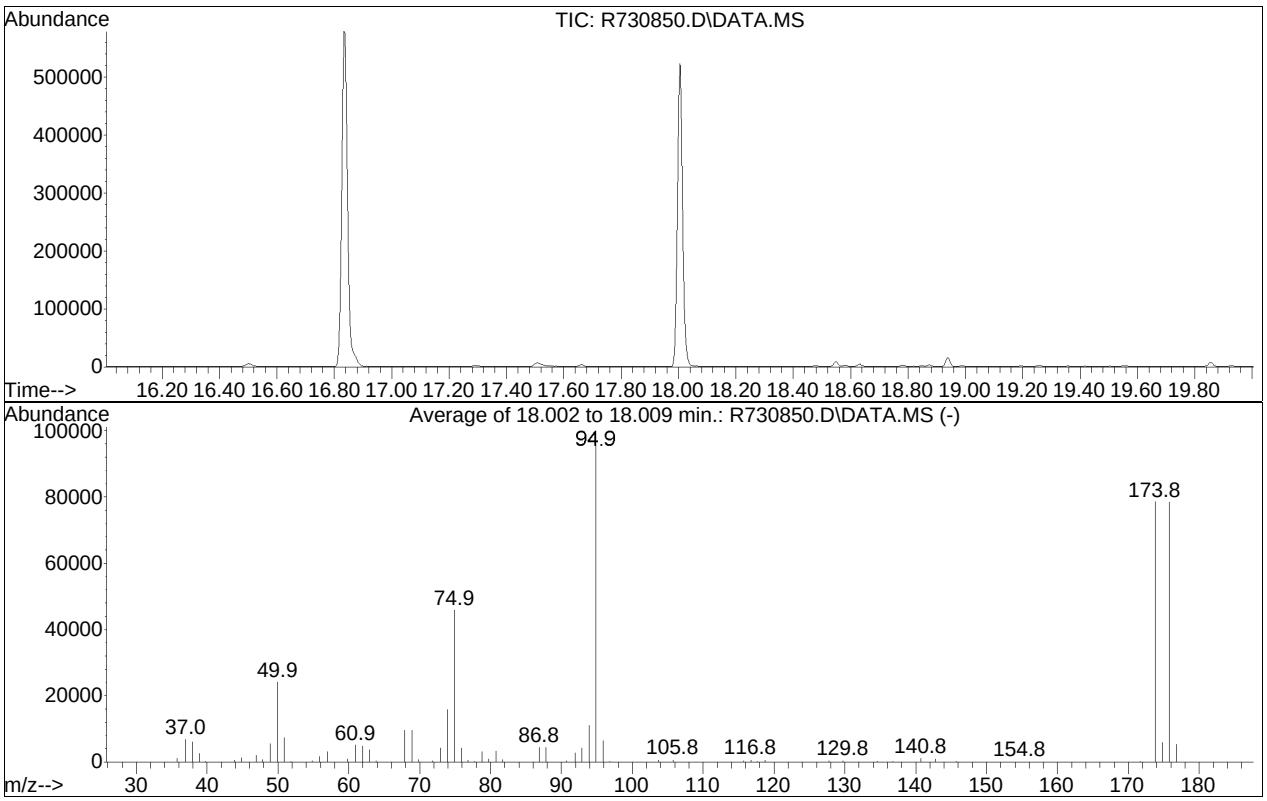
Manual Peak Response = 167509 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730850.D
Acq On : 1 Apr 2015 11:51 am
Operator : AIRLAB7:RY
Sample : WG772680-1,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Mar 29 07:59:36 2015



AutoFind: Scans 2076, 2077, 2078; Background Corrected with Scan 2067

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.0	24120	PASS
75	95	30	66	47.7	45949	PASS
95	95	100	100	100.0	96368	PASS
96	95	5	9	6.7	6418	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.5	78587	PASS
175	174	4	9	7.7	6013	PASS
176	174	93	101	99.7	78384	PASS
177	176	5	9	6.8	5353	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730855.D
Acq On : 1 Apr 2015 3:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-4,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:49:10 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	132474	10.000	ppbV	0.00
Standard Area = 138435			Recovery = 95.69%			
43) 1,4-difluorobenzene	12.56	114	299696	10.000	ppbV	0.01
Standard Area = 232924			Recovery = 128.67%			
67) chlorobenzene-D5	16.84	54	71126	10.000	ppbV	0.00
Standard Area = 83341			Recovery = 85.34%			
System Monitoring Compounds						
Target Compounds						Qvalue
3) propylene	0.00		0	N.D.		
5) dichlorodifluoromethane	0.00		0	N.D.		
6) chloromethane	0.00		0	N.D.		
7) Freon-114	0.00		0	N.D.		
9) vinyl chloride	0.00		0	N.D.		
10) 1,3-butadiene	0.00		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	0.00		0	N.D.		
17) vinyl bromide	0.00		0	N.D.		
19) acetone	7.01		0	N.D.		
21) trichlorofluoromethane	0.00		0	N.D.		
22) isopropyl alcohol	0.00		0	N.D.		
26) 1,1-dichloroethene	0.00		0	N.D.		
27) tertiary butyl alcohol	0.00		0	N.D.		
28) methylene chloride	8.06	49	1707	0.100	ppbV #	80
29) 3-chloropropene	0.00		0	N.D.		
30) carbon disulfide	0.00		0	N.D.		
31) Freon 113	0.00		0	N.D.		
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.		
35) vinyl acetate	0.00		0	N.D.		
36) 2-butanone	9.90		0	N.D.		
37) cis-1,2-dichloroethene	0.00		0	N.D.		
38) Ethyl Acetate	0.00		0	N.D.		
39) chloroform	0.00		0	N.D.		
40) Tetrahydrofuran	0.00		0	N.D.		

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730855.D
Acq On : 1 Apr 2015 3:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-4,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:49:10 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	0.00		0	N.D.		
48) 1,1,1-trichloroethane	0.00		0	N.D.		
50) benzene	0.00		0	N.D.		
52) carbon tetrachloride	0.00		0	N.D.		
53) cyclohexane	0.00		0	N.D. d		
56) 1,2-dichloropropane	0.00		0	N.D.		
57) bromodichloromethane	0.00		0	N.D.		
58) 1,4-dioxane	0.00		0	N.D.		
59) trichloroethene	0.00		0	N.D.		
60) 2,2,4-trimethylpentane	0.00		0	N.D.		
62) heptane	0.00		0	N.D.		
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	0.00		0	N.D.		
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.		
68) toluene	15.28		0	N.D.		
72) 2-hexanone	0.00		0	N.D.		
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
78) tetrachloroethene	0.00		0	N.D.		
80) chlorobenzene	0.00		0	N.D.		
81) ethylbenzene	17.16		0	N.D.		
83) m+p-xylene	17.31		0	N.D.		
84) bromoform	0.00		0	N.D.		
85) styrene	17.58		0	N.D.		
86) 1,1,2,2-tetrachloroethane	17.67		0	N.D.		
87) o-xylene	17.66		0	N.D.		
96) 4-ethyl toluene	18.58		0	N.D.		
97) 1,3,5-trimethylbenzene	18.63		0	N.D.		
99) 1,2,4-trimethylbenzene	18.94		0	N.D.		
101) Benzyl Chloride	19.06		0	N.D.		
102) 1,3-dichlorobenzene	19.07		0	N.D.		
103) 1,4-dichlorobenzene	19.12		0	N.D.		
107) 1,2-dichlorobenzene	19.38		0	N.D.		
115) 1,2,4-trichlorobenzene	20.79	180	3172	0.170	ppbV #	87
119) hexachlorobutadiene	21.22		0	N.D.		

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

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730855.D
Acq On : 1 Apr 2015 3:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-4,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:49:10 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : Default-LCS-AP2 - All compounds listed

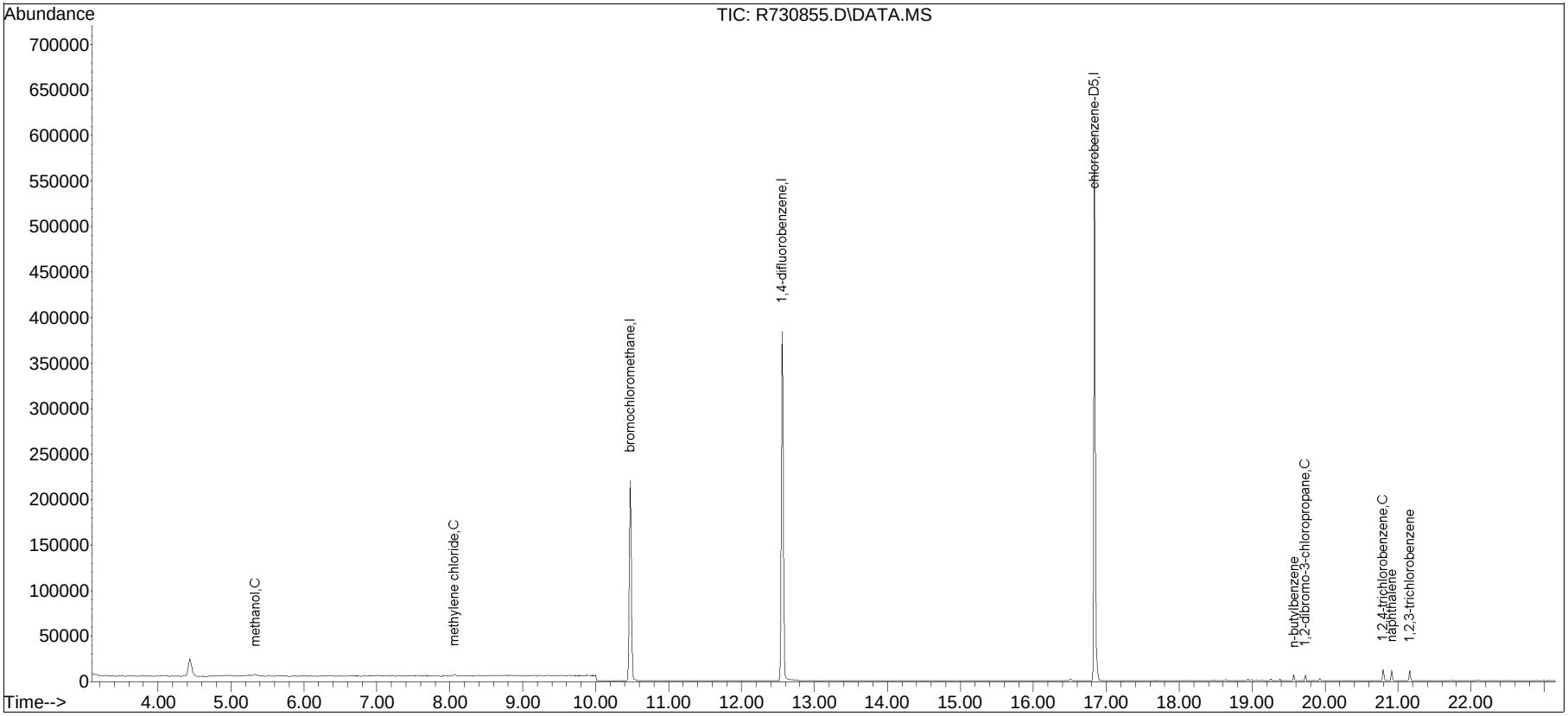
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

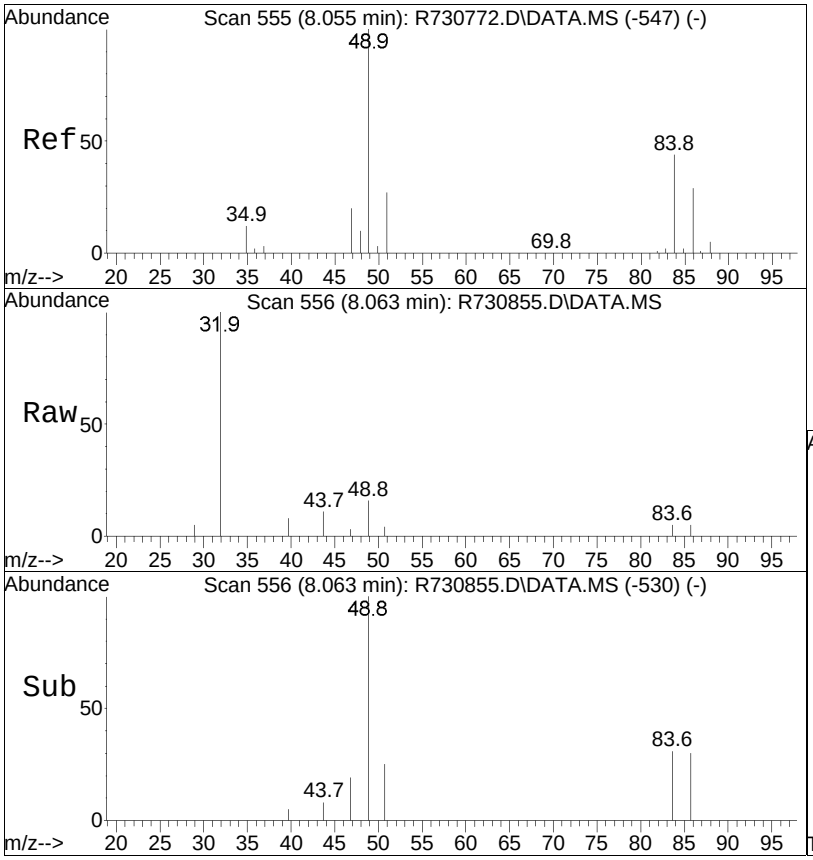
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730855.D
Acq On : 1 Apr 2015 3:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-4,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:49:10 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed\R730851.D

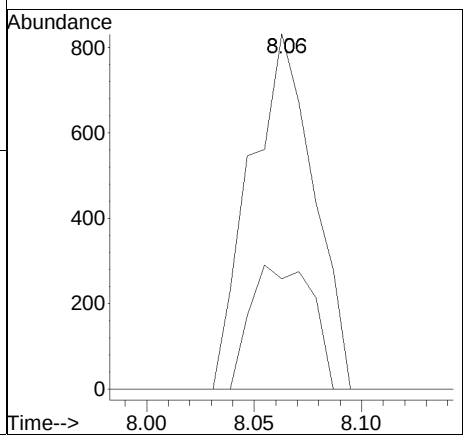


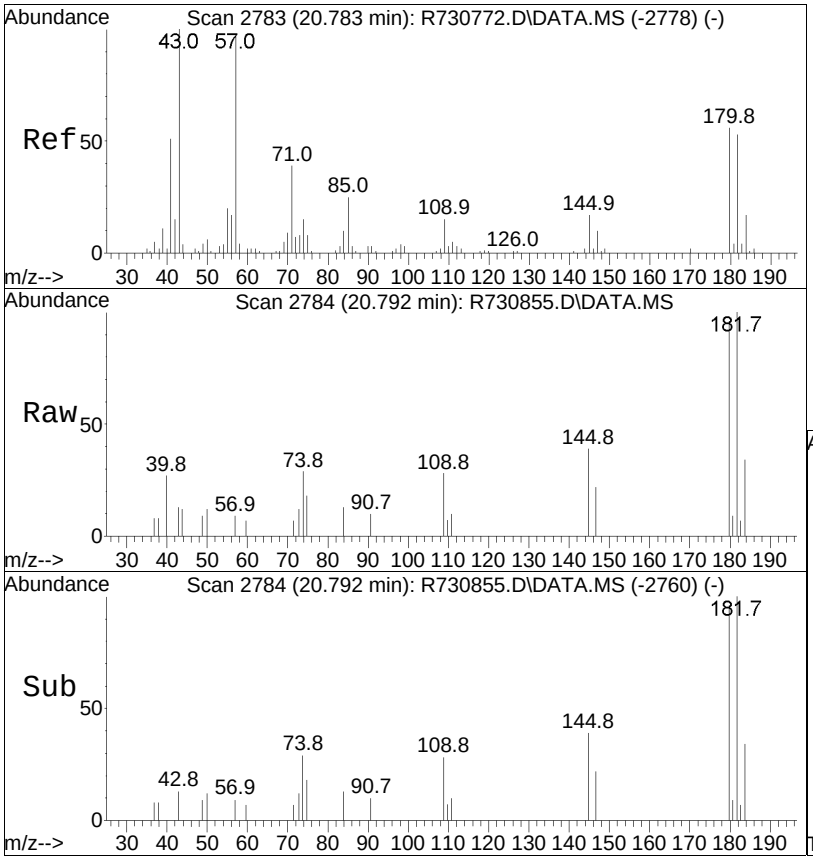


#28
methylene chloride
Concen: 0.10 ppbV
RT: 8.06 min Scan# 556
Delta R.T. 0.008 min
Lab File: R730855.D
Acq: 1 Apr 2015 3:25 pm

Tgt Ion: 49 Resp: 1707

Ion	Ratio	Lower	Upper
49	100		
84	31.1	35.4	53.2#

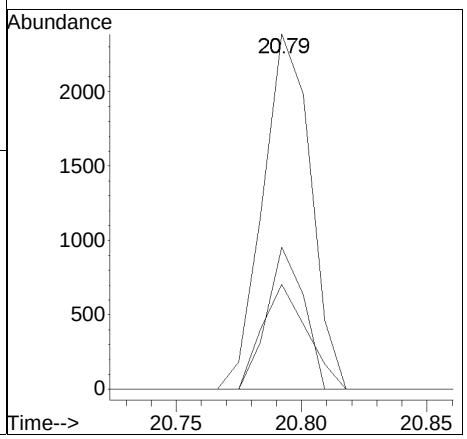




#115
1,2,4-trichlorobenzene
Concen: 0.17 ppbV
RT: 20.79 min Scan# 2784
Delta R.T. 0.009 min
Lab File: R730855.D
Acq: 1 Apr 2015 3:25 pm

Tgt Ion:180 Resp: 3172

Ion	Ratio	Lower	Upper
180	100		
145	40.1	24.1	36.1#
109	29.5	21.0	31.4



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TALL150328.M
Data File	: R730855.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 3:25 pm	Instrument	: Airlab 7
Sample	: WG772680-4,3,250,250	Quant Date	: 4/1/2015 3:48 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730852.D
Acq On : 1 Apr 2015 1:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-3,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 13:51:16 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	81	0.00
2		chlorodifluoromethane	10.000	7.691	23.1	62	0.00
3		propylene	10.000	8.831	11.7	70	0.00
4		propane	10.000	5.390	46.1#	42	-0.92#
5		dichlorodifluoromethane	10.000	8.386	16.1	62	0.00
6	C	chloromethane	10.000	8.389	16.1	70	0.00
7		Freon-114	10.000	9.157	8.4	68	0.00
8	C	methanol	50.000	37.944	24.1	57	0.03
9	C	vinyl chloride	10.000	8.743	12.6	69	0.00
10	C	1,3-butadiene	10.000	9.353	6.5	73	0.02
11		butane	10.000	8.077	19.2	65	0.00
13	C	bromomethane	10.000	8.625	13.8	71	0.00
14	C	chloroethane	10.000	8.768	12.3	68	0.02
15		ethanol	50.000	41.600	16.8	63	0.02
16		dichlorofluoromethane	10.000	8.019	19.8	64	0.00
17	C	vinyl bromide	10.000	8.979	10.2	72	0.00
18	C	acrolein	10.000	8.204	18.0	64	0.00
19		acetone	50.000	46.055	7.9	74	0.00
20	C	acetonitrile	10.000	8.273	17.3	64	0.00
21		trichlorofluoromethane	10.000	8.579	14.2	70	0.00
22		isopropyl alcohol	10.000	9.357	6.4	73	0.00
23	C	acrylonitrile	10.000	8.649	13.5	69	0.00
24		pentane	10.000	8.450	15.5	65	0.00
25		ethyl ether	10.000	8.180	18.2	63	0.00
26	C	1,1-dichloroethene	10.000	8.509	14.9	68	0.00
27		tertiary butyl alcohol	10.000	8.699	13.0	68	0.02
28	C	methylene chloride	10.000	8.418	15.8	70	0.00
29	C	3-chloropropene	10.000	9.381	6.2	75	0.00
30	C	carbon disulfide	10.000	8.601	14.0	69	0.00
31		Freon 113	10.000	8.916	10.8	74	0.00
32		trans-1,2-dichloroethene	10.000	7.931	20.7	64	0.00
33	C	1,1-dichloroethane	10.000	8.613	13.9	70	0.00
34	C	MTBE	10.000	8.689	13.1	71	0.00
35	C	vinyl acetate	10.000	10.225	-2.2	85	0.00
36	C	2-butanone	10.000	8.485	15.2	69	0.00
37		cis-1,2-dichloroethene	10.000	9.503	5.0	77	0.00
38		Ethyl Acetate	10.000	8.856	11.4	70	0.00
39	C	chloroform	10.000	8.654	13.5	70	0.00
40		Tetrahydrofuran	10.000	8.535	14.6	67	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730852.D
Acq On : 1 Apr 2015 1:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-3,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 13:51:16 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	10.000	8.200	18.0	66	0.00
42	C	1,2-dichloroethane	10.000	8.746	12.5	69	0.00
43	I	1,4-difluorobenzene	10.000	10.000	0.0	82	0.01
44	C	hexane	10.000	8.611	13.9	69	0.00
45		diisopropyl ether	10.000	8.263	17.4	66	0.00
46		tert-butyl ethyl ether	10.000	8.097	19.0	65	0.00
48	C	1,1,1-trichloroethane	10.000	9.091	9.1	69	0.01
49		1,1-dichloropropene	10.000	8.672	13.3	68	0.00
50	C	benzene	10.000	8.444	15.6	69	0.00
52	C	carbon tetrachloride	10.000	9.509	4.9	74	0.00
53		cyclohexane	10.000	8.682	13.2	69	0.00
54		tert-amyl methyl ether	10.000	8.194	18.1	65	0.01
55		dibromomethane	10.000	8.012	19.9	65	0.00
56	C	1,2-dichloropropane	10.000	8.678	13.2	70	0.00
57		bromodichloromethane	10.000	8.871	11.3	70	0.00
58	C	1,4-dioxane	10.000	8.678	13.2	68	0.01
59	C	trichloroethene	10.000	8.909	10.9	71	0.00
60	C	2,2,4-trimethylpentane	10.000	8.816	11.8	68	0.00
61		methyl methacrylate	10.000	8.952	10.5	69	0.00
62		heptane	10.000	8.724	12.8	69	0.00
63	C	cis-1,3-dichloropropene	10.000	9.584	4.2	72	0.00
64	C	4-methyl-2-pentanone	10.000	8.864	11.4	67	0.00
65		trans-1,3-dichloropropene	10.000	8.315	16.9	61	0.00
66	C	1,1,2-trichloroethane	10.000	9.173	8.3	72	0.00
67	I	chlorobenzene-D5	10.000	10.000	0.0	78	0.00
68	C	toluene	10.000	8.610	13.9	68	0.00
71		1,3-dichloropropane	10.000	8.187	18.1	65	0.00
72		2-hexanone	10.000	9.064	9.4	66	0.00
74		dibromochloromethane	10.000	8.982	10.2	69	0.00
75	C	1,2-dibromoethane	10.000	8.745	12.6	69	0.00
76		butyl acetate	10.000	8.832	11.7	63	0.00
77		octane	10.000	8.408	15.9	67	0.00
78	C	tetrachloroethene	10.000	8.767	12.3	71	0.00
79		1,1,1,2-tetrachloroethane	10.000	8.443	15.6	67	0.00
80	C	chlorobenzene	10.000	8.703	13.0	69	0.00
81	C	ethylbenzene	10.000	8.886	11.1	68	0.00
83	C	m+p-xylene	20.000	17.865	10.7	68	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730852.D
Acq On : 1 Apr 2015 1:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-3,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 13:51:16 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84	C	bromoform	10.000	9.055	9.5	69	0.00
85	C	styrene	10.000	9.173	8.3	67	0.00
86	C	1,1,2,2-tetrachloroethane	10.000	8.996	10.0	70	0.00
87	C	o-xylene	10.000	9.304	7.0	69	0.00
88		1,2,3-trichloropropane	10.000	8.293	17.1	65	0.00
89		nonane	10.000	8.391	16.1	63	0.00
91	C	isopropylbenzene	10.000	8.903	11.0	68	0.00
92		bromobenzene	10.000	8.252	17.5	64	0.00
93		2-chlorotoluene	10.000	8.750	12.5	66	0.00
94		n-propylbenzene	10.000	8.904	11.0	67	0.00
95		4-chlorotoluene	10.000	8.411	15.9	64	0.00
96		4-ethyl toluene	10.000	8.709	12.9	65	0.00
97		1,3,5-trimethylbenzene	10.000	9.159	8.4	69	0.00
98		tert-butylbenzene	10.000	8.934	10.7	66	0.00
99		1,2,4-trimethylbenzene	10.000	9.712	2.9	69	0.00
100		decane	10.000	8.653	13.5	64	0.00
101	C	Benzyl Chloride	10.000	9.388	6.1	69	0.00
102		1,3-dichlorobenzene	10.000	8.904	11.0	69	0.00
103	C	1,4-dichlorobenzene	10.000	8.986	10.1	69	0.00
104		sec-butylbenzene	10.000	8.831	11.7	65	0.00
106		p-isopropyltoluene	10.000	8.590	14.1	61	0.00
107		1,2-dichlorobenzene	10.000	9.022	9.8	69	0.00
108		n-butylbenzene	10.000	9.203	8.0	67	0.00
111	C	1,2-dibromo-3-chloropropane	10.000	8.684	13.2	64	0.00
112		undecane	10.000	9.021	9.8	61	0.00
114		dodecane	10.000	9.379	6.2	59	0.00
115	C	1,2,4-trichlorobenzene	10.000	9.730	2.7	68	0.00
116		naphthalene	10.000	9.198	8.0	64	0.00
117		1,2,3-trichlorobenzene	10.000	8.950	10.5	66	0.00
119	C	hexachlorobutadiene	10.000	9.270	7.3	66	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730852.D
Acq On : 1 Apr 2015 1:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-3,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 13:51:16 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	139232	10.000	ppbV	0.00
Standard Area = 138435			Recovery = 100.58%			
43) 1,4-difluorobenzene	12.56	114	231460	10.000	ppbV	0.01
Standard Area = 232924			Recovery = 99.37%			
67) chlorobenzene-D5	16.83	54	82134	10.000	ppbV	0.00
Standard Area = 83341			Recovery = 98.55%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	4.71	51	186114	7.691	ppbV	99
3) propylene	4.74	41	110130	8.831	ppbV	97
4) propane	3.86	29	79653M3	5.390	ppbV	
5) dichlorodifluoromethane	4.84	85	160739	8.386	ppbV	97
6) chloromethane	5.07	50	106500	8.389	ppbV	99
7) Freon-114	5.22	85	241244	9.157	ppbV	98
8) methanol	5.32	31	195766	37.944	ppbV	95
9) vinyl chloride	5.37	62	91760	8.743	ppbV	98
10) 1,3-butadiene	5.57	54	83614	9.353	ppbV	91
11) butane	5.64	43	180672	8.077	ppbV	98
13) bromomethane	5.92	94	81135	8.625	ppbV	97
14) chloroethane	6.16	64	41037	8.768	ppbV	96
15) ethanol	6.34	31	462457	41.600	ppbV	97
16) dichlorofluoromethane	6.30	67	177890	8.019	ppbV	98
17) vinyl bromide	6.61	106	84067	8.979	ppbV	92
18) acrolein	6.76	56	38790	8.204	ppbV	99
19) acetone	6.92	43	1020310	46.055	ppbV	99
20) acetonitrile	6.59	41	107842	8.273	ppbV	98
21) trichlorofluoromethane	7.14	101	262738	8.579	ppbV	100
22) isopropyl alcohol	7.25	45	222462	9.357	ppbV	100
23) acrylonitrile	7.50	53	78641	8.649	ppbV	97
24) pentane	7.58	43	214918	8.450	ppbV	98
25) ethyl ether	7.61	31	158939	8.180	ppbV	99
26) 1,1-dichloroethene	7.90	61	160031	8.509	ppbV	97
27) tertiary butyl alcohol	7.98	59	187476	8.699	ppbV	99
28) methylene chloride	8.05	49	150819	8.418	ppbV	98
29) 3-chloropropene	8.20	41	180572	9.381	ppbV	97
30) carbon disulfide	8.37	76	237941	8.601	ppbV	100
31) Freon 113	8.37	101	190965	8.916	ppbV	96

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730852.D
Acq On : 1 Apr 2015 1:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-3,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 13:51:16 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	9.14	61	137685	7.931	ppbV	98
33) 1,1-dichloroethane	9.36	63	172720	8.613	ppbV	99
34) MTBE	9.43	73	223304	8.689	ppbV	99
35) vinyl acetate	9.54	43	253382	10.225	ppbV	98
36) 2-butanone	9.80	43	281255	8.485	ppbV	99
37) cis-1,2-dichloroethene	10.29	61	141567	9.503	ppbV	98
38) Ethyl Acetate	10.54	61	29613	8.856	ppbV	59
39) chloroform	10.62	83	183272	8.654	ppbV	99
40) Tetrahydrofuran	11.04	42	140285M6	8.535	ppbV	
41) 2,2-dichloropropane	10.63	77	141895	8.200	ppbV	100
42) 1,2-dichloroethane	11.41	62	141212	8.746	ppbV	98
44) hexane	10.52	57	143946	8.611	ppbV	76
45) diisopropyl ether	10.52	87	54478	8.263	ppbV	98
46) tert-butyl ethyl ether	11.10	59	251778	8.097	ppbV	99
48) 1,1,1-trichloroethane	11.69	97	195607	9.091	ppbV	97
49) 1,1-dichloropropene	12.02	75	105765	8.672	ppbV	97
50) benzene	12.17	78	189680	8.444	ppbV	99
52) carbon tetrachloride	12.34	117	183479	9.509	ppbV	98
53) cyclohexane	12.47	56	124301	8.682	ppbV	99
54) tert-amyl methyl ether	12.82	73	216331	8.194	ppbV	98
55) dibromomethane	13.03	93	112431	8.012	ppbV	97
56) 1,2-dichloropropane	13.06	63	113304	8.678	ppbV	98
57) bromodichloromethane	13.27	83	226199	8.871	ppbV	99
58) 1,4-dioxane	13.32	88	60010	8.678	ppbV	95
59) trichloroethene	13.31	130	136938	8.909	ppbV	100
60) 2,2,4-trimethylpentane	13.34	57	570642	8.816	ppbV	98
61) methyl methacrylate	13.52	41	180892	8.952	ppbV	97
62) heptane	13.62	43	255263	8.724	ppbV	99
63) cis-1,3-dichloropropene	14.26	75	145955	9.584	ppbV	99
64) 4-methyl-2-pentanone	14.29	43	359841	8.864	ppbV	99
65) trans-1,3-dichloropropene	14.82	75	125210	8.315	ppbV	97
66) 1,1,2-trichloroethane	15.01	97	119091	9.173	ppbV	99
68) toluene	15.28	91	332406	8.610	ppbV	98
71) 1,3-dichloropropane	15.30	76	144207	8.187	ppbV	92
72) 2-hexanone	15.51	43	343580	9.064	ppbV	93
74) dibromochloromethane	15.69	129	235819	8.982	ppbV	99
75) 1,2-dibromoethane	15.91	107	184980	8.745	ppbV	98
76) butyl acetate	16.08	73	30697	8.832	ppbV	96
77) octane	16.16	85	84951	8.408	ppbV	97
78) tetrachloroethene	16.31	166	163125	8.767	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730852.D
Acq On : 1 Apr 2015 1:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-3,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 13:51:16 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79)	1,1,1,2-tetrachloroethane	16.85	131	158121	8.443	ppbV		99
80)	chlorobenzene	16.87	112	266858	8.703	ppbV		100
81)	ethylbenzene	17.16	91	428782	8.886	ppbV		99
83)	m+p-xylene	17.30	91	676071	17.865	ppbV		98
84)	bromoform	17.38	173	201892	9.055	ppbV		98
85)	styrene	17.58	104	245582	9.173	ppbV		99
86)	1,1,2,2-tetrachloroethane	17.65	83	257187	8.996	ppbV		99
87)	o-xylene	17.66	91	365218	9.304	ppbV		98
88)	1,2,3-trichloropropane	17.75	75	178306	8.293	ppbV		98
89)	nonane	17.79	43	363082	8.391	ppbV		98
91)	isopropylbenzene	18.09	105	502247	8.903	ppbV		99
92)	bromobenzene	18.18	77	209561	8.252	ppbV		95
93)	2-chlorotoluene	18.45	126	120589	8.750	ppbV	#	60
94)	n-propylbenzene	18.47	120	132271	8.904	ppbV		89
95)	4-chlorotoluene	18.50	91	316475	8.411	ppbV		99
96)	4-ethyl toluene	18.57	105	498376M6	8.709	ppbV		
97)	1,3,5-trimethylbenzene	18.62	105	445942	9.159	ppbV		100
98)	tert-butylbenzene	18.93	119	481801	8.934	ppbV		99
99)	1,2,4-trimethylbenzene	18.93	105	447678	9.712	ppbV		95
100)	decane	18.97	57	331669	8.653	ppbV		95
101)	Benzyl Chloride	19.04	91	278137	9.388	ppbV		98
102)	1,3-dichlorobenzene	19.06	146	258515	8.904	ppbV		98
103)	1,4-dichlorobenzene	19.11	146	255070	8.986	ppbV		99
104)	sec-butylbenzene	19.13	105	654444	8.831	ppbV		100
106)	p-isopropyltoluene	19.24	119	543417	8.590	ppbV		98
107)	1,2-dichlorobenzene	19.37	146	255424	9.022	ppbV		99
108)	n-butylbenzene	19.55	91	512206	9.203	ppbV		100
111)	1,2-dibromo-3-chloropr...	19.71	75	113922	8.684	ppbV		96
112)	undecane	19.91	57	393064	9.021	ppbV		100
114)	dodecane	20.79	57	425028	9.379	ppbV		99
115)	1,2,4-trichlorobenzene	20.78	180	209688	9.730	ppbV		99
116)	naphthalene	20.90	128	490890	9.198	ppbV		100
117)	1,2,3-trichlorobenzene	21.15	180	201262	8.950	ppbV		98
119)	hexachlorobutadiene	21.20	225	255566	9.270	ppbV		99

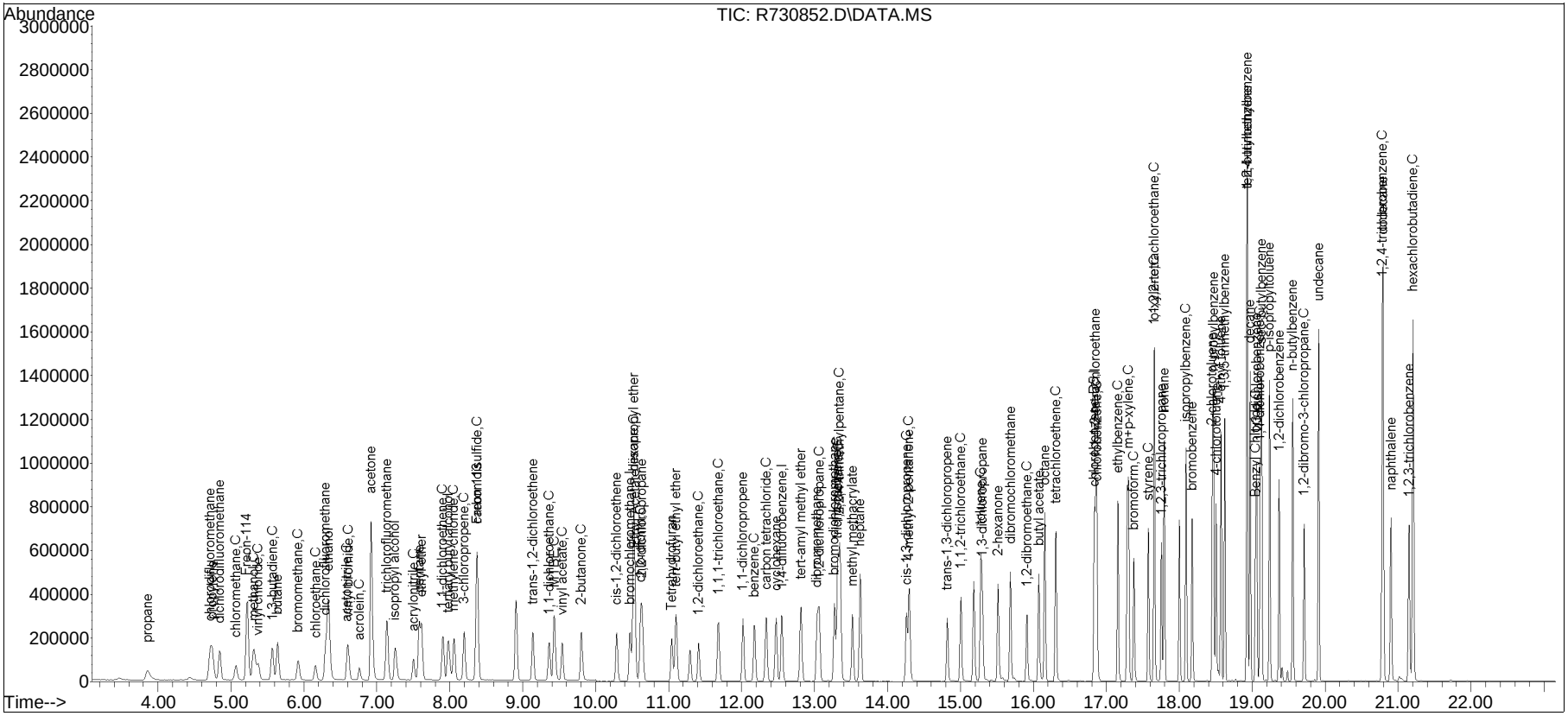
(#) = qualifier out of range (m) = manual integration (+) = signals summed

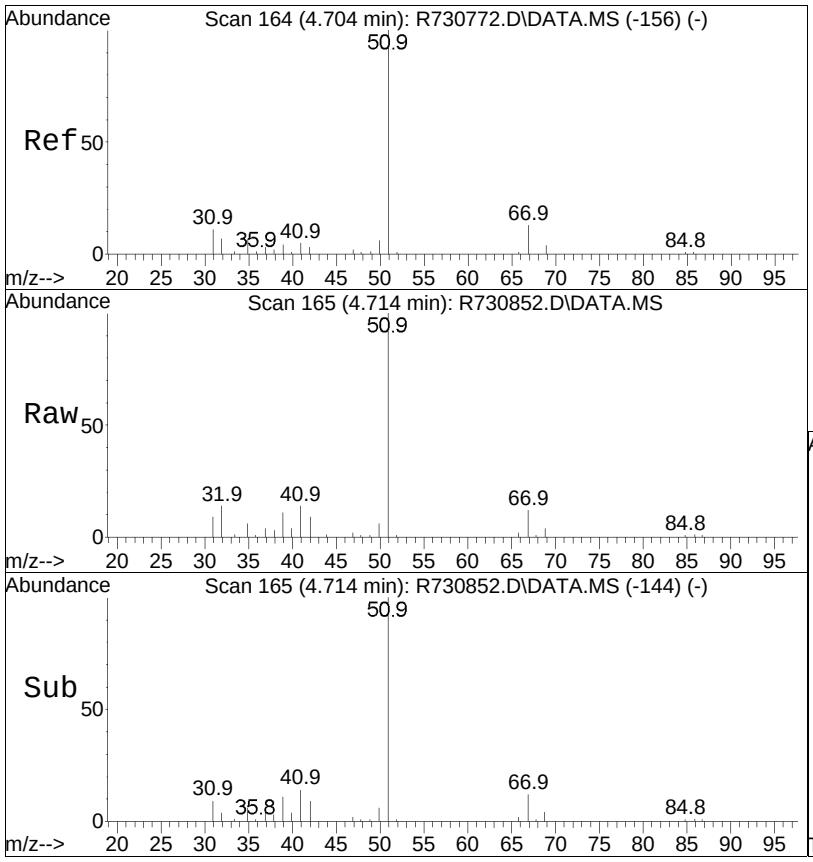
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730852.D
Acq On : 1 Apr 2015 1:25 pm
Operator : AIRLAB7:RY
Sample : WG772680-3,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 13:51:16 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : Default-LCS-AP2 - All compounds listed\R730851.D

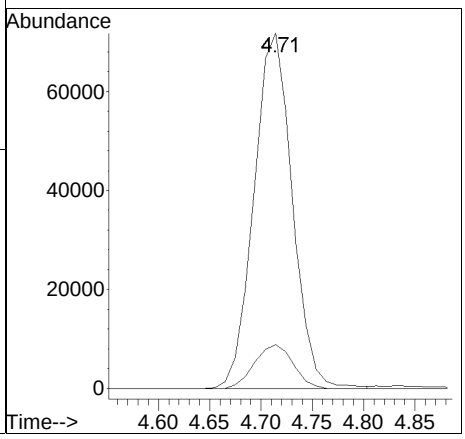


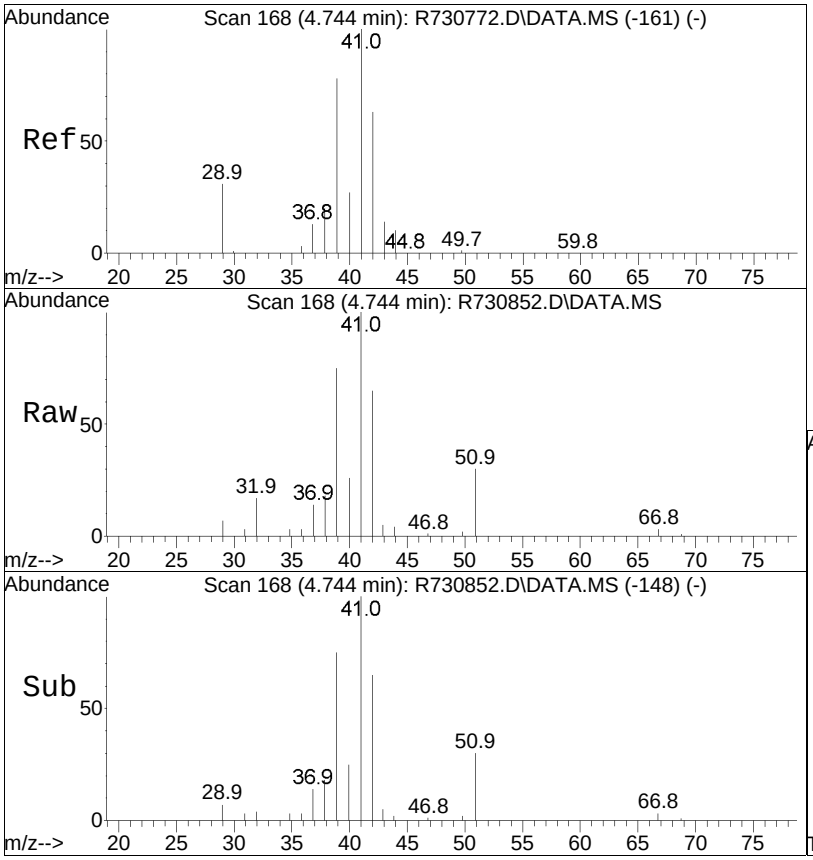


#2
chlorodifluoromethane
Concen: 7.69 ppbV
RT: 4.71 min Scan# 165
Delta R.T. 0.010 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 51 Resp: 186114

Ion	Ratio	Lower	Upper
51	100		
67	12.3	10.1	15.1

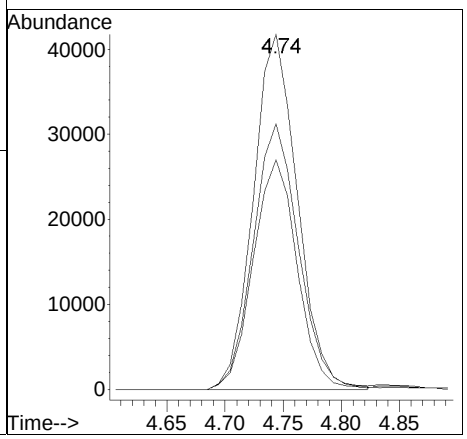


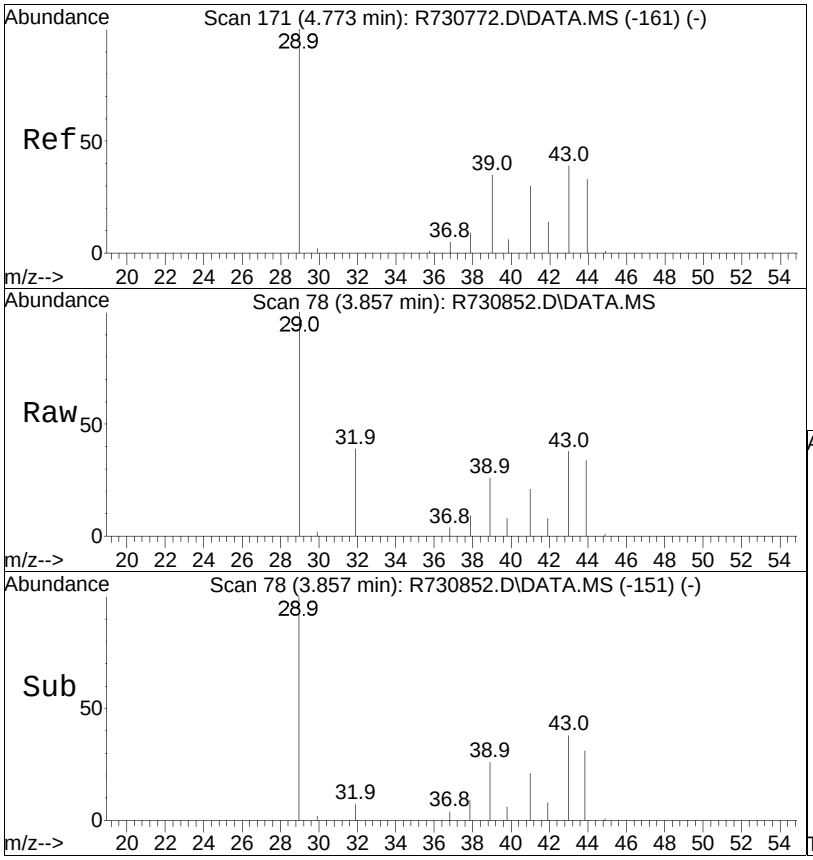


#3
propylene
Concen: 8.83 ppbV
RT: 4.74 min Scan# 168
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 41 Resp: 110130

Ion	Ratio	Lower	Upper
41	100		
42	64.7	50.2	75.2
39	74.8	62.6	94.0

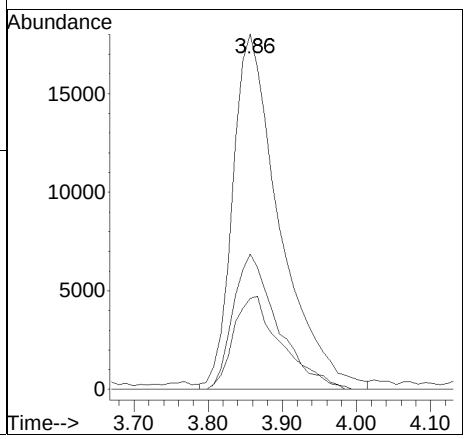


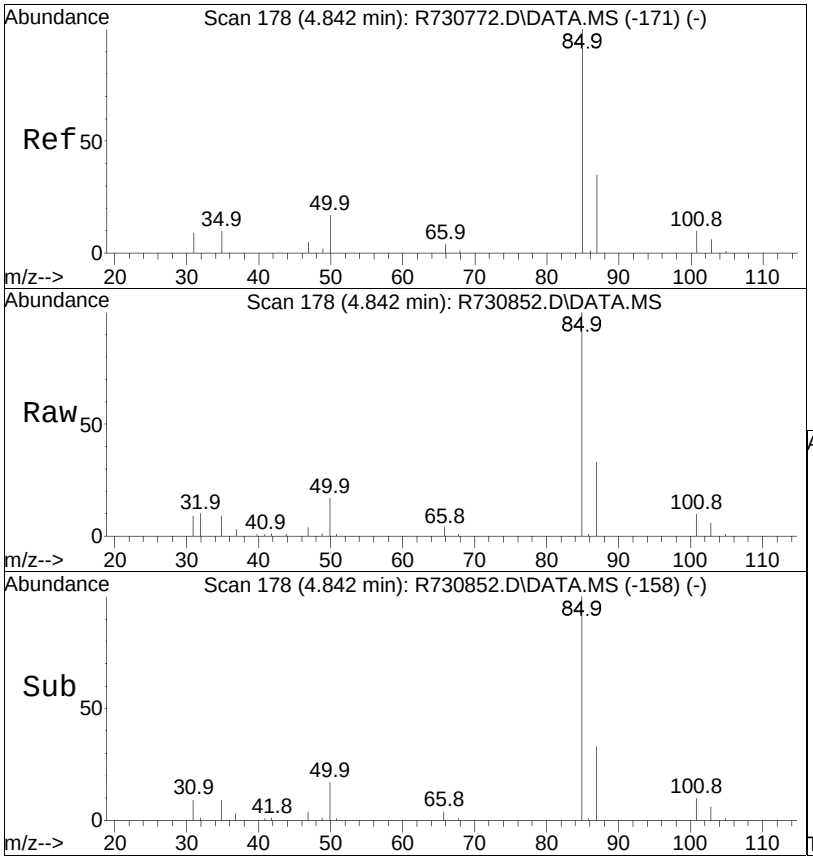


#4
propane
Concen: 5.39 ppbV m
RT: 3.86 min Scan# 78
Delta R.T. -0.917 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 29 Resp: 79653

Ion	Ratio	Lower	Upper
29	100		
43	38.1	31.3	46.9
39	25.6	27.8	41.6#

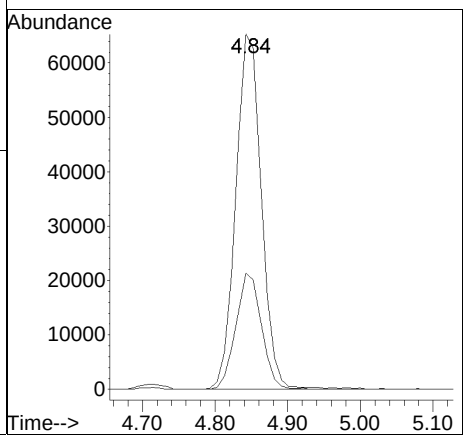


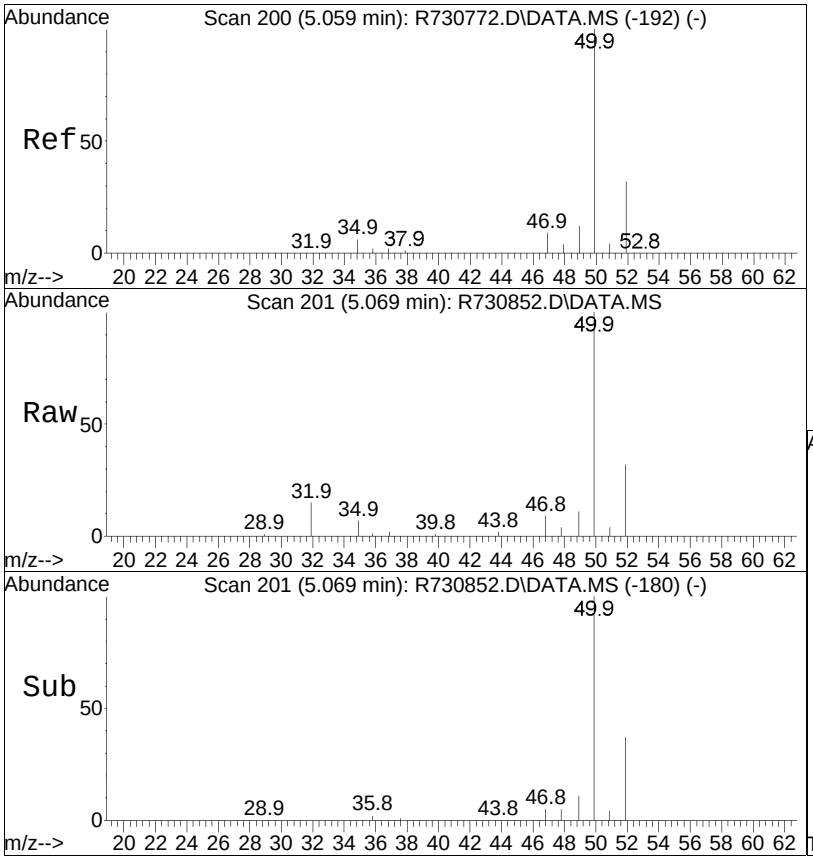


#5
dichlorodifluoromethane
Concen: 8.39 ppbV
RT: 4.84 min Scan# 178
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 85 Resp: 160739

Ion	Ratio	Lower	Upper
85	100		
87	32.7	27.7	41.5

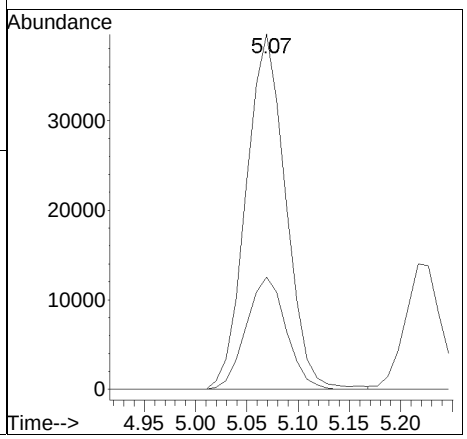


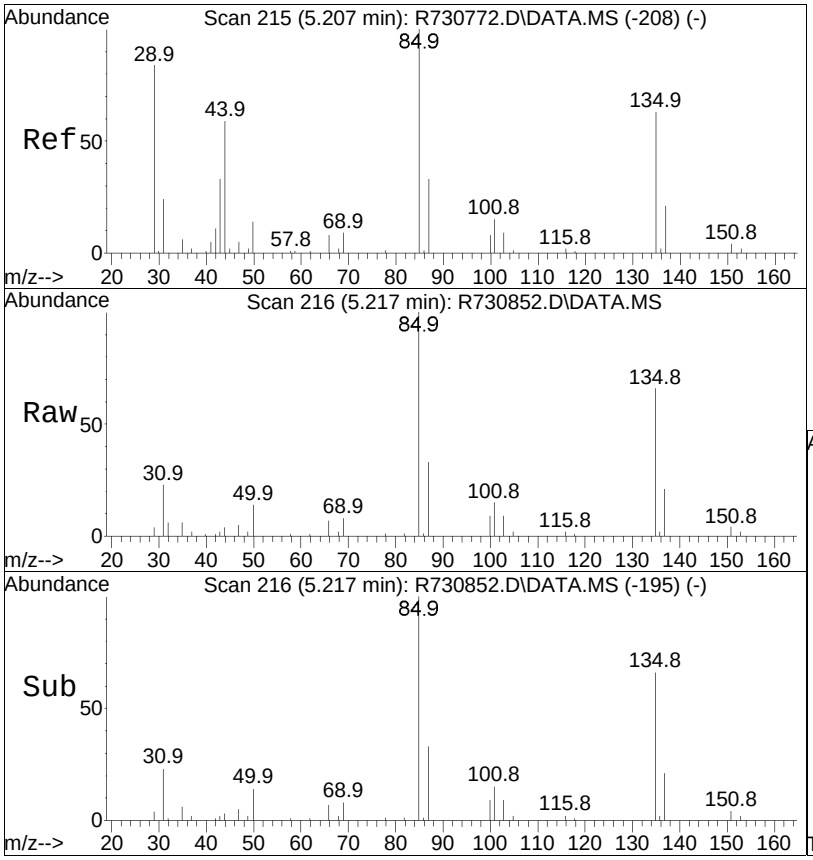


#6
chloromethane
Concen: 8.39 ppbV
RT: 5.07 min Scan# 201
Delta R.T. 0.010 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 50 Resp: 106500

Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.7	38.5

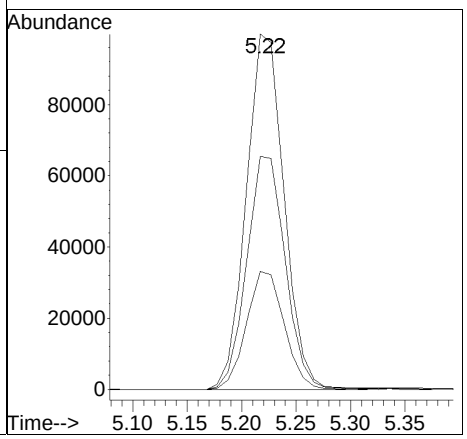


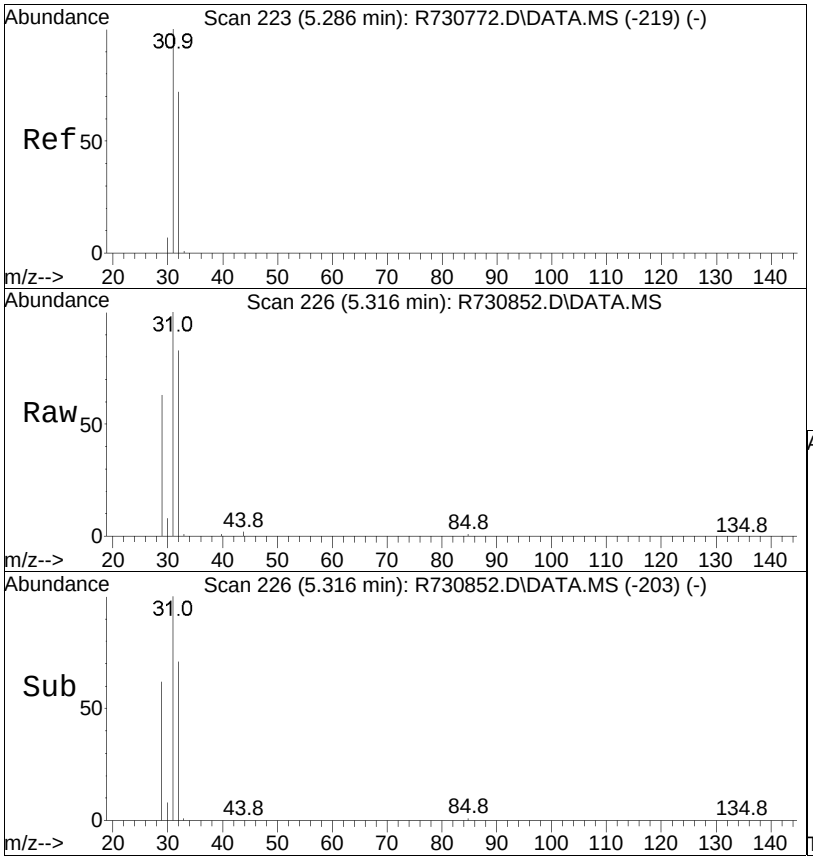


#7
Freon-114
Concen: 9.16 ppbV
RT: 5.22 min Scan# 216
Delta R.T. 0.010 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 85 Resp: 241244

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.8	40.2
135	65.6	50.4	75.6

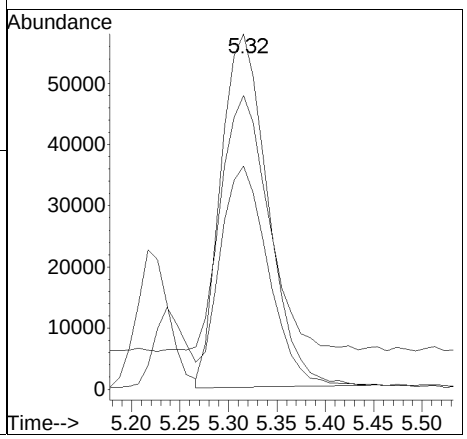


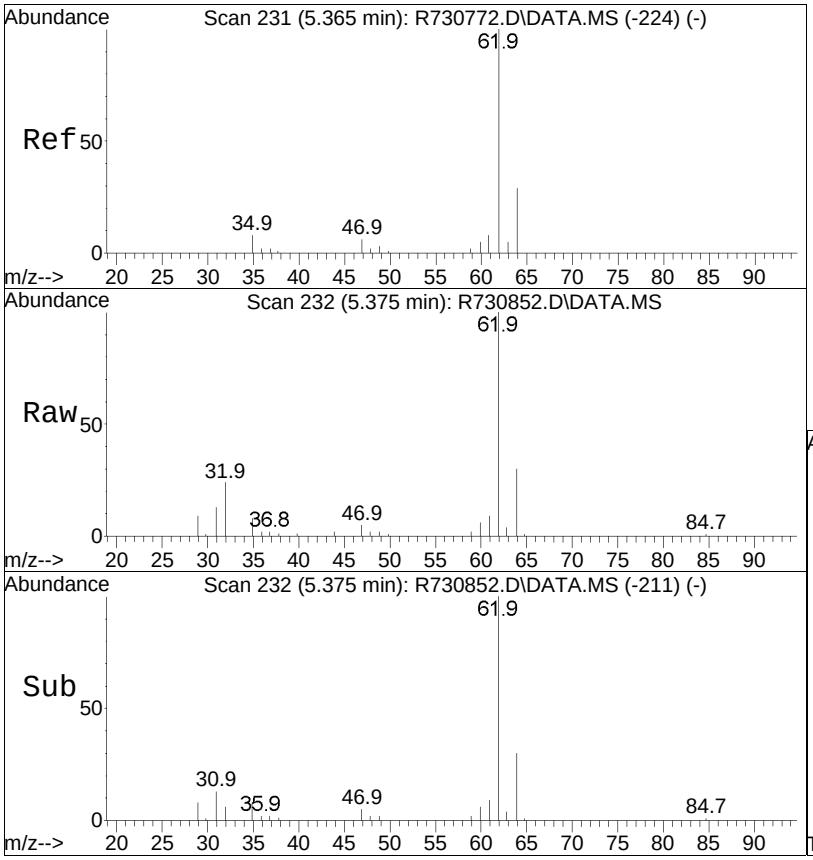


#8
methanol
Concen: 37.94 ppbV
RT: 5.32 min Scan# 226
Delta R.T. 0.030 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 31 Resp: 195766

Ion	Ratio	Lower	Upper
31	100		
32	82.7	60.8	91.2
29	62.9	52.0	78.0

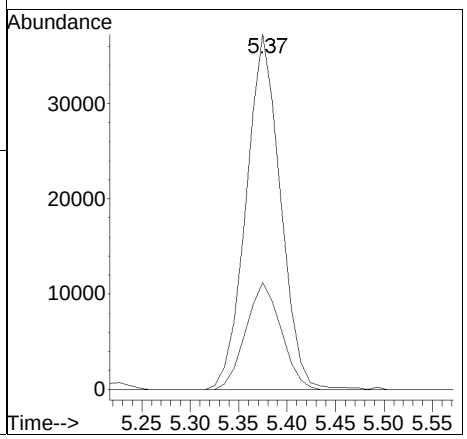


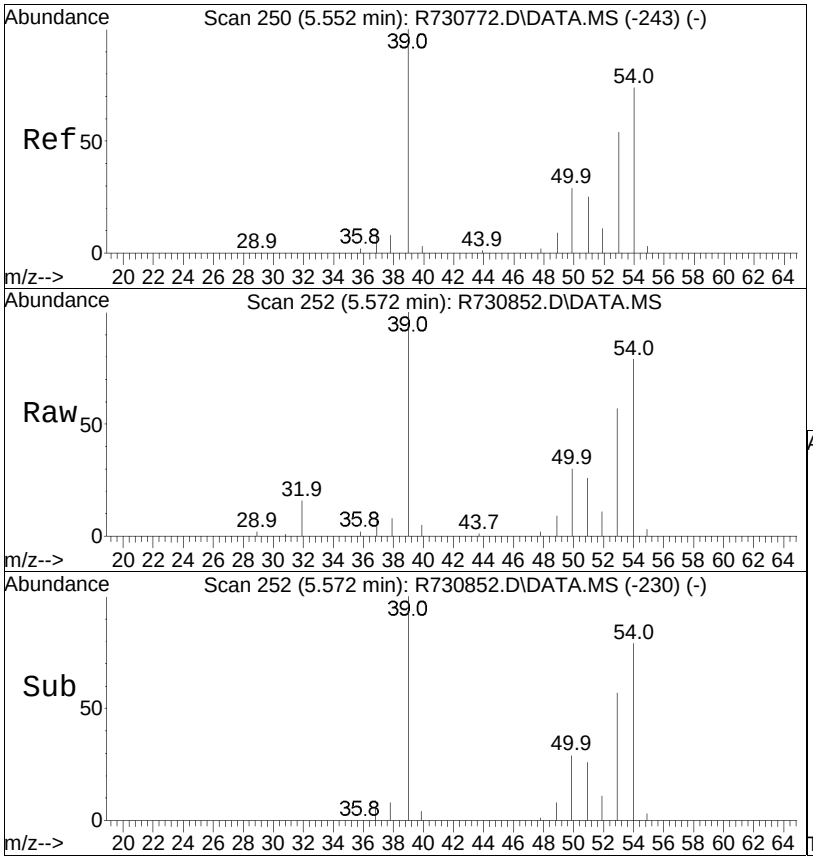


#9
vinyl chloride
Concen: 8.74 ppbV
RT: 5.37 min Scan# 232
Delta R.T. 0.010 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 62 Resp: 91760

Ion	Ratio	Lower	Upper
62	100		
64	30.1	23.0	34.6

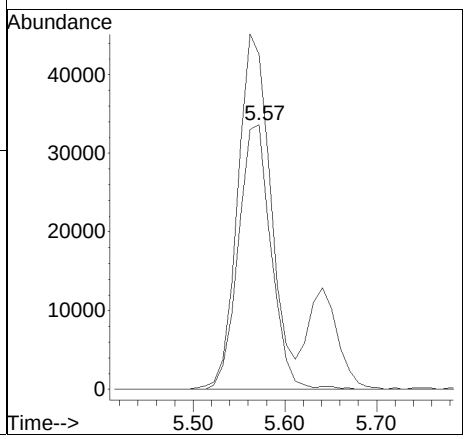


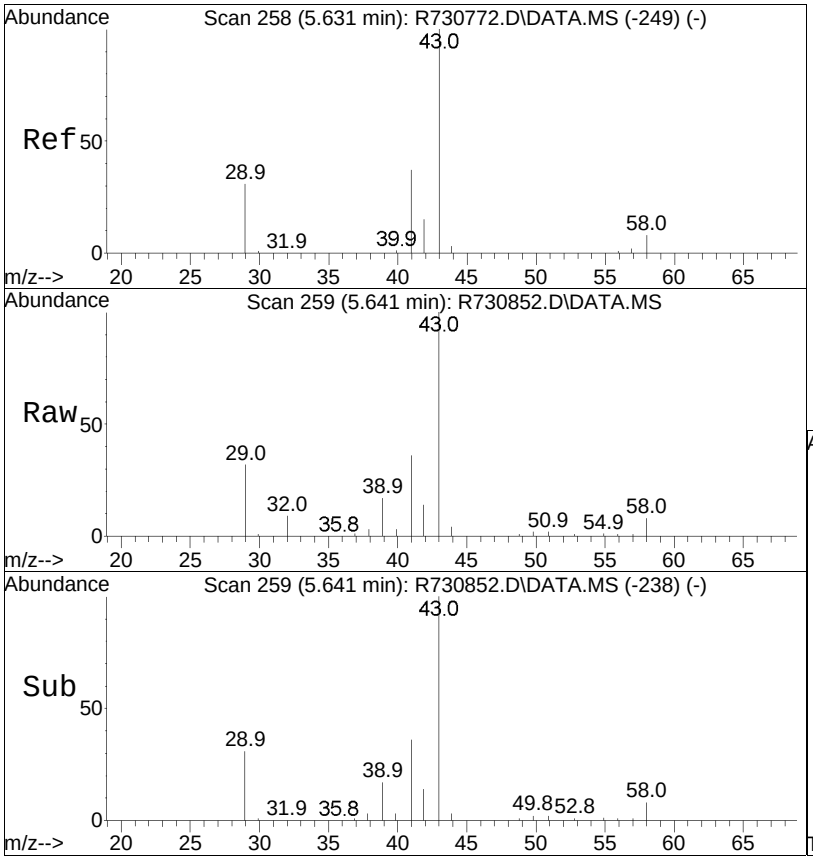


#10
1,3-butadiene
Concen: 9.35 ppbV
RT: 5.57 min Scan# 252
Delta R.T. 0.020 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 54 Resp: 83614

Ion	Ratio	Lower	Upper
54	100		
39	126.5	109.8	164.8

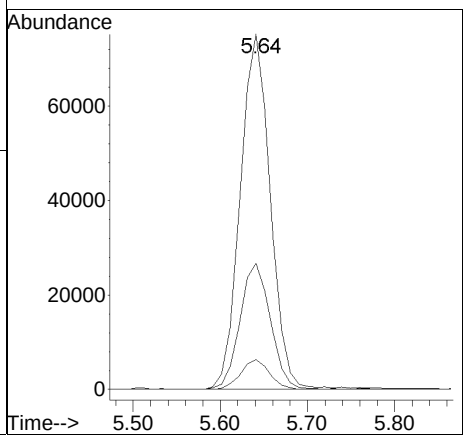


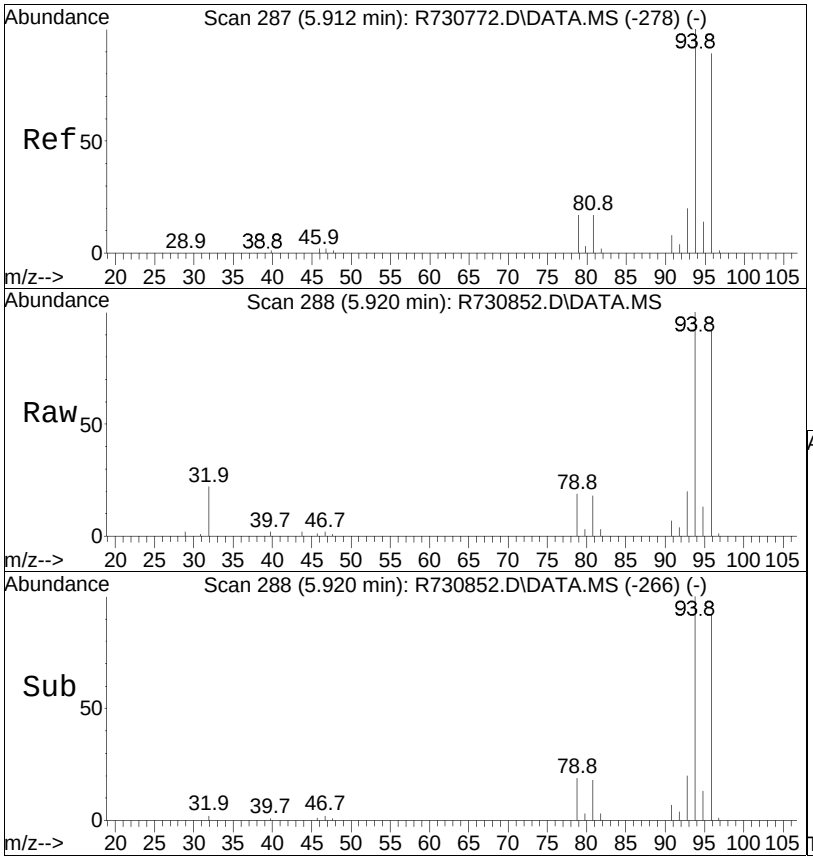


#11
butane
Concen: 8.08 ppbV
RT: 5.64 min Scan# 259
Delta R.T. 0.010 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 180672

Ion	Ratio	Lower	Upper
43	100		
58	8.4	6.2	9.4
41	35.5	29.5	44.3

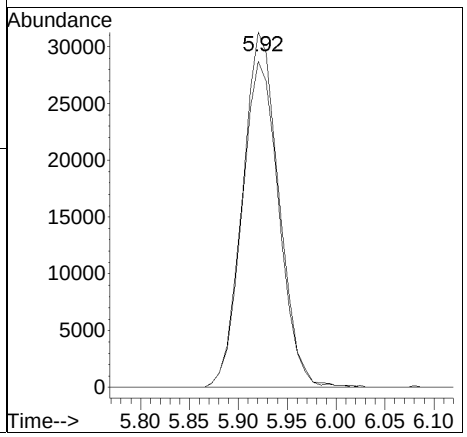


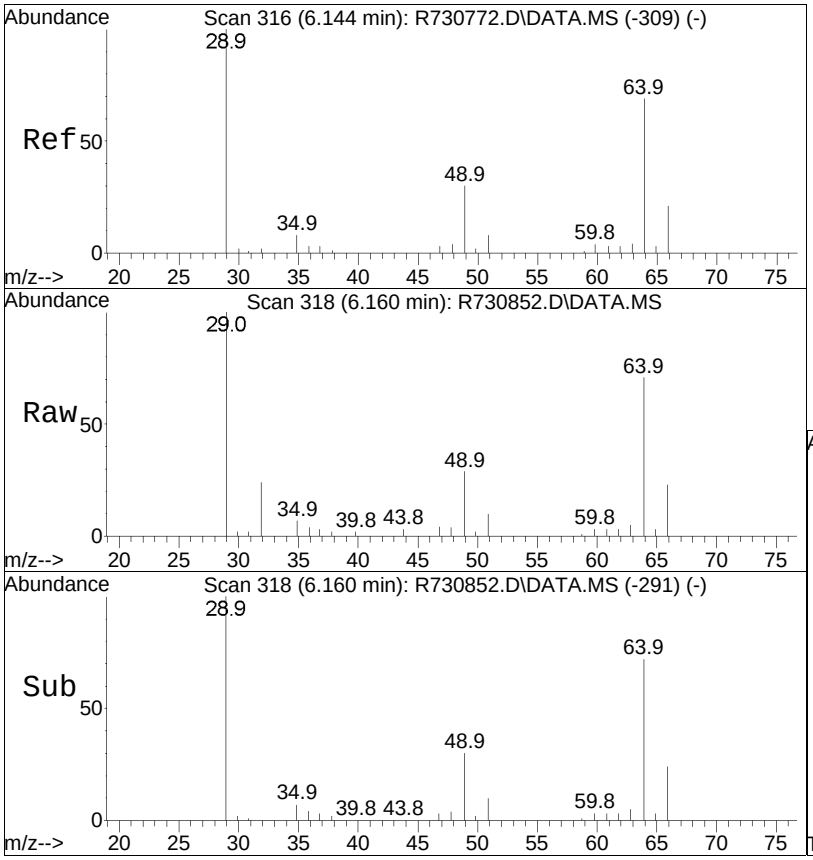


#13
bromomethane
Concen: 8.62 ppbV
RT: 5.92 min Scan# 288
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 94 Resp: 81135

Ion	Ratio	Lower	Upper
94	100		
96	91.7	71.4	107.2

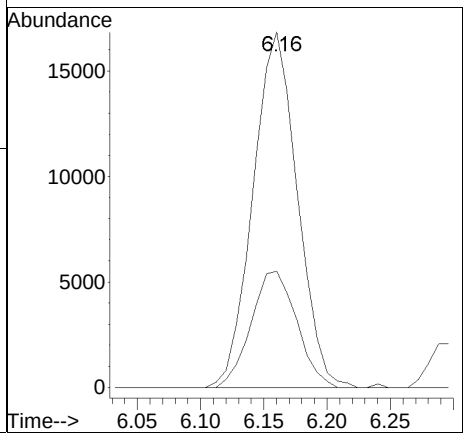


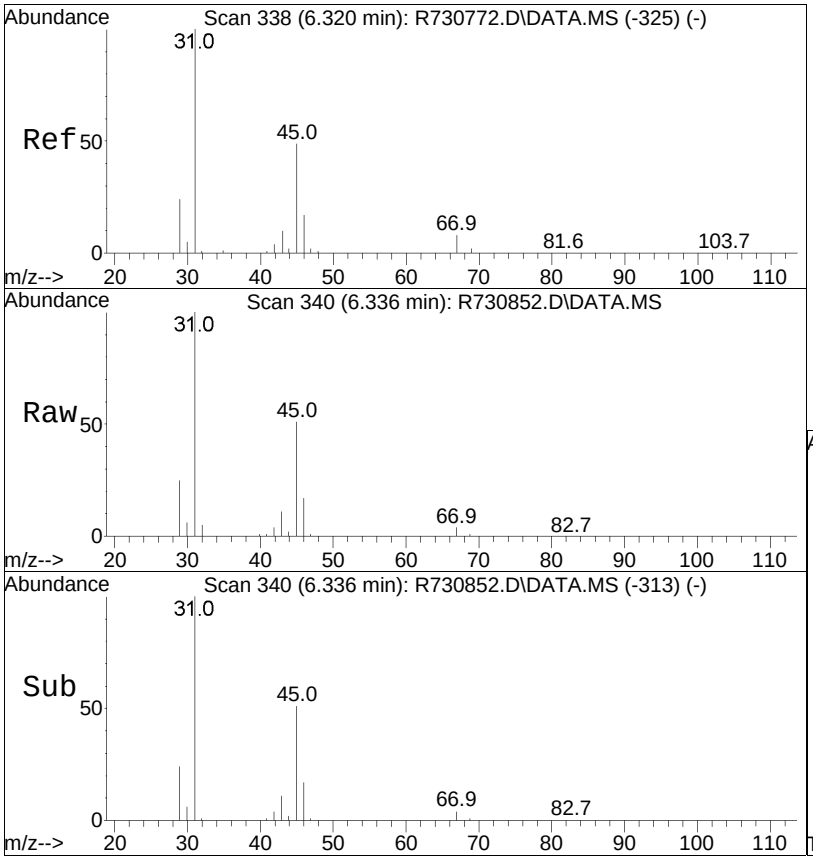


#14
chloroethane
Concen: 8.77 ppbV
RT: 6.16 min Scan# 318
Delta R.T. 0.016 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 64 Resp: 41037

Ion	Ratio	Lower	Upper
64	100		
66	32.7	24.3	36.5

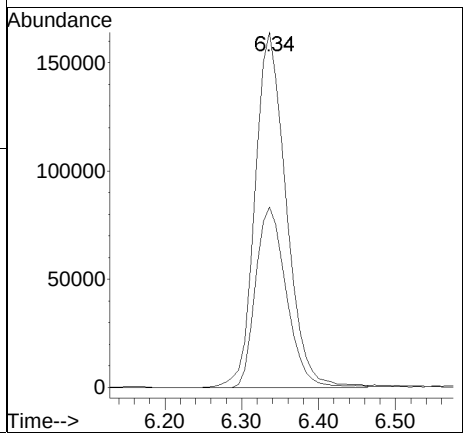


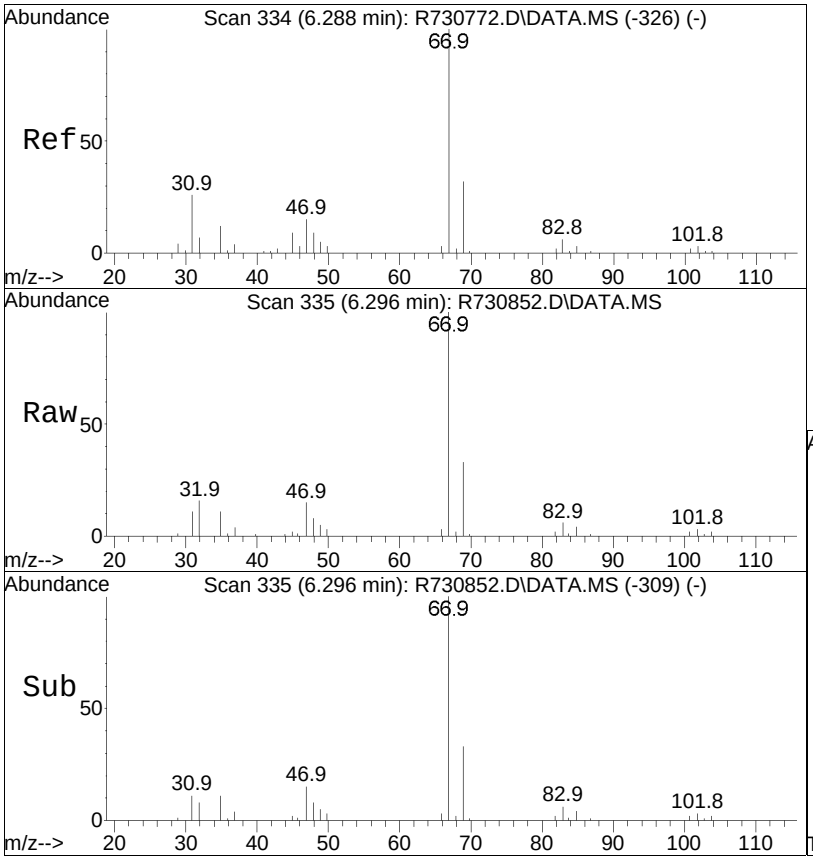


#15
ethanol
Concen: 41.60 ppbV
RT: 6.34 min Scan# 340
Delta R.T. 0.016 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 31 Resp: 462457

Ion	Ratio	Lower	Upper
31	100		
45	50.8	39.0	58.6

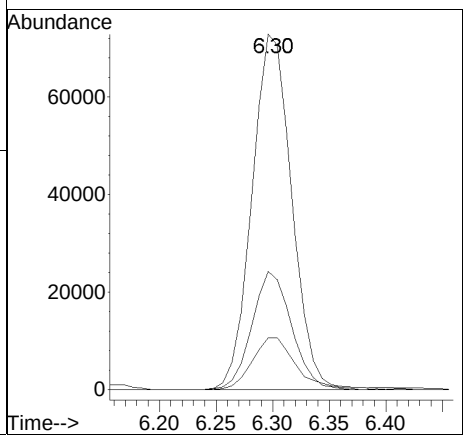


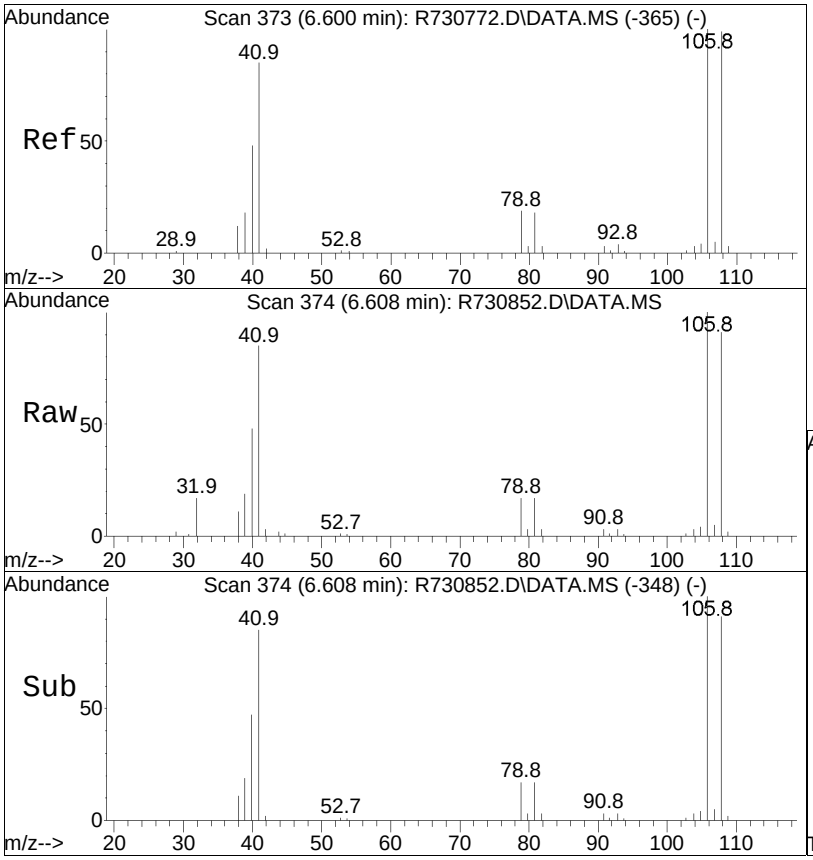


#16
dichlorofluoromethane
Concen: 8.02 ppbV
RT: 6.30 min Scan# 335
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 67 Resp: 177890

Ion	Ratio	Lower	Upper
67	100		
69	33.2	25.7	38.5
47	14.5	11.9	17.9

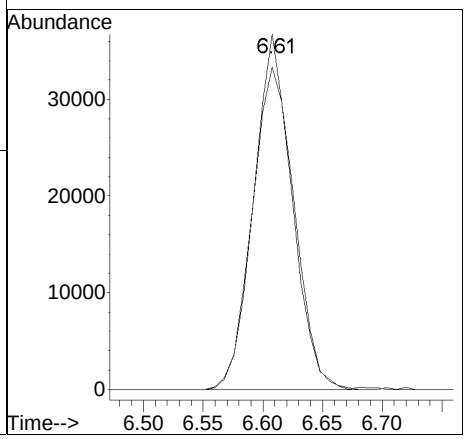


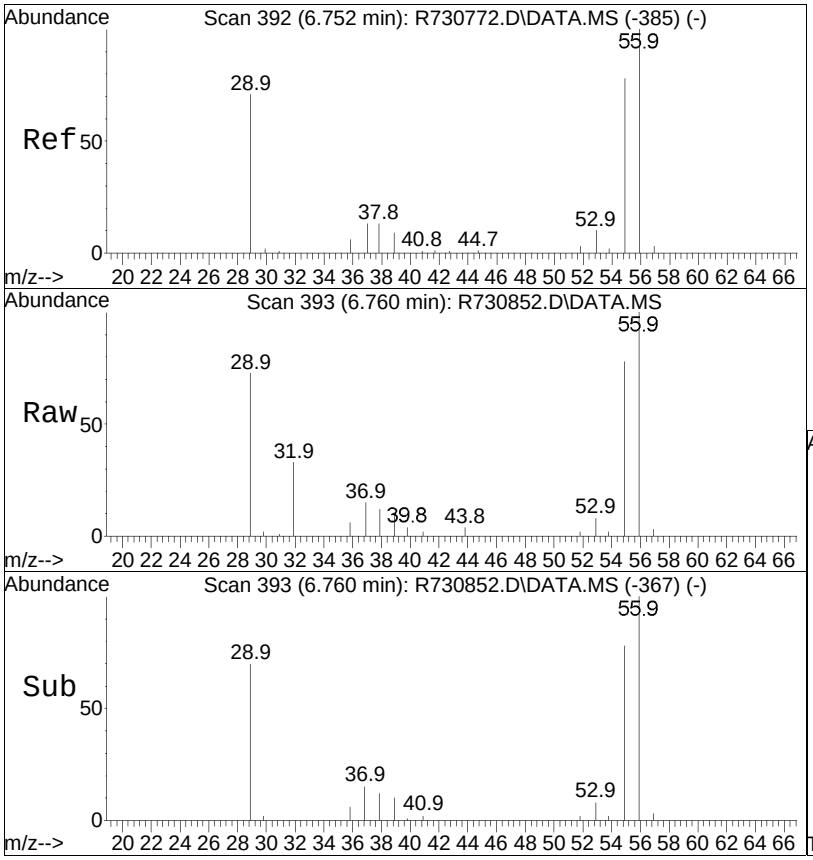


#17
vinyl bromide
Concen: 8.98 ppbV
RT: 6.61 min Scan# 374
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:106 Resp: 84067

Ion	Ratio	Lower	Upper
106	100		
108	90.7	79.4	119.0

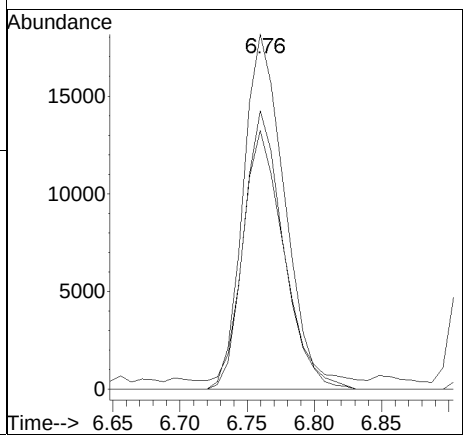


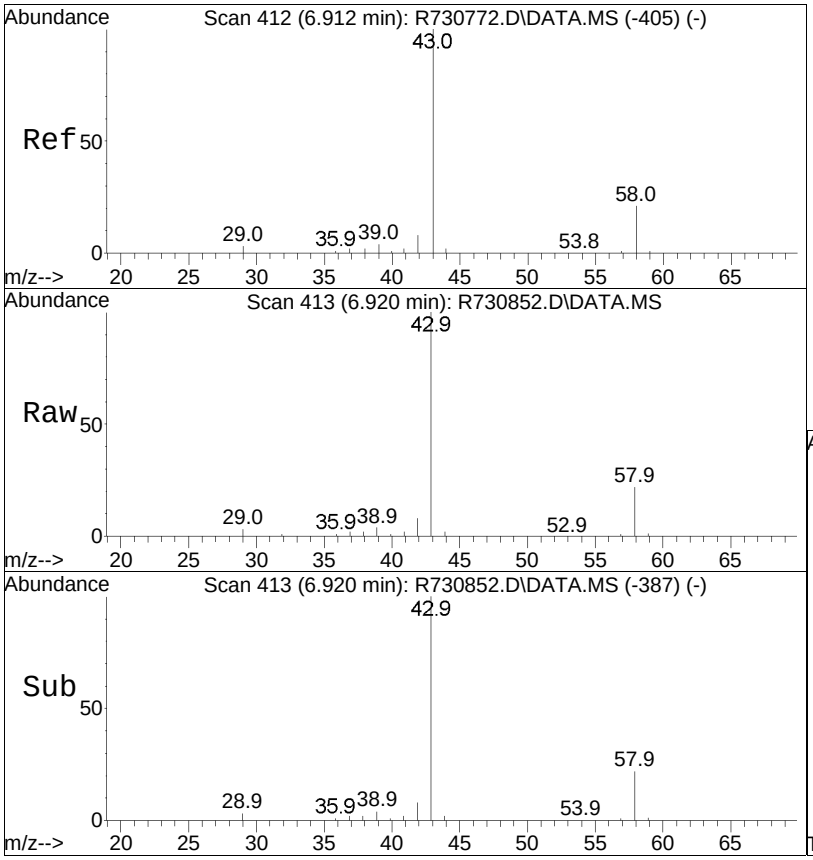


#18
acrolein
Concen: 8.20 ppbV
RT: 6.76 min Scan# 393
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 56 Resp: 38790

Ion	Ratio	Lower	Upper
56	100		
55	78.5	62.4	93.6
29	72.9	59.0	88.6

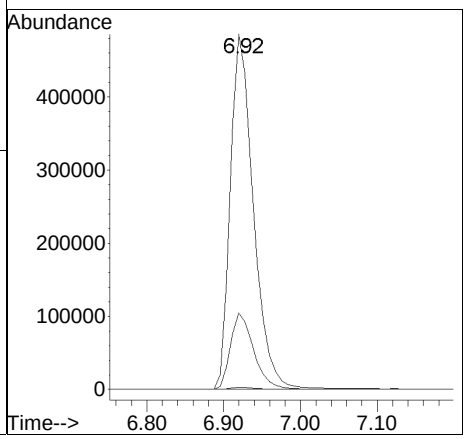


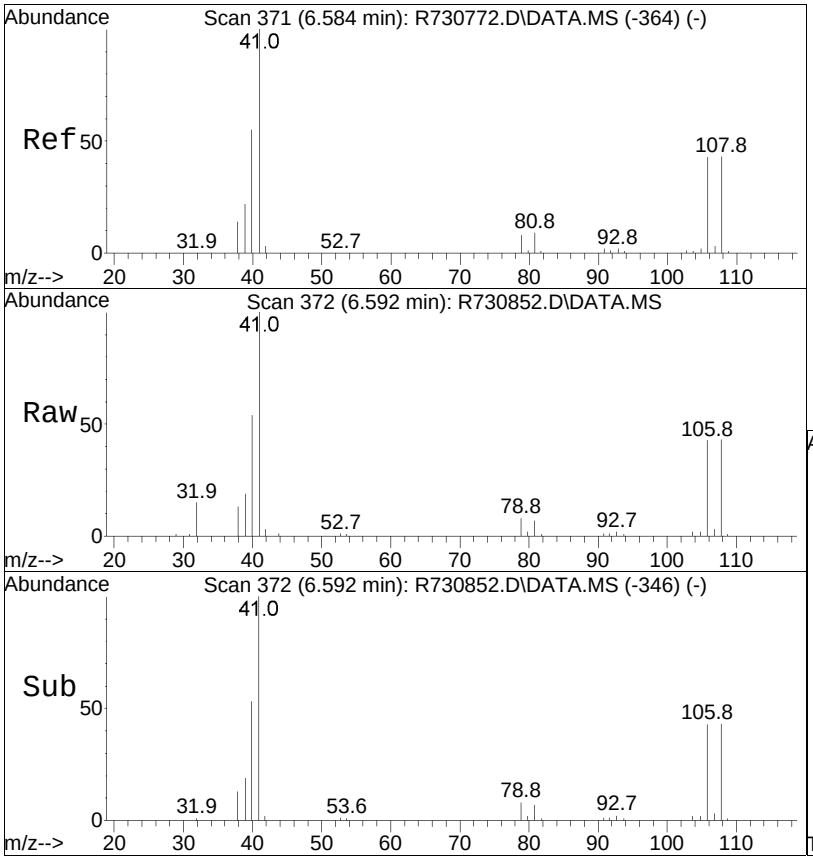


#19
acetone
Concen: 46.05 ppbV
RT: 6.92 min Scan# 413
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 1020310

Ion	Ratio	Lower	Upper
43	100		
58	21.5	16.7	25.1
57	0.6	0.5	0.7

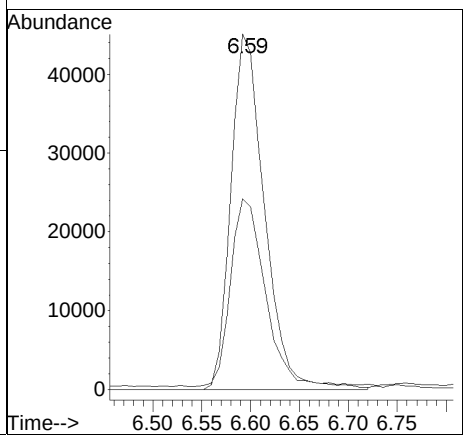


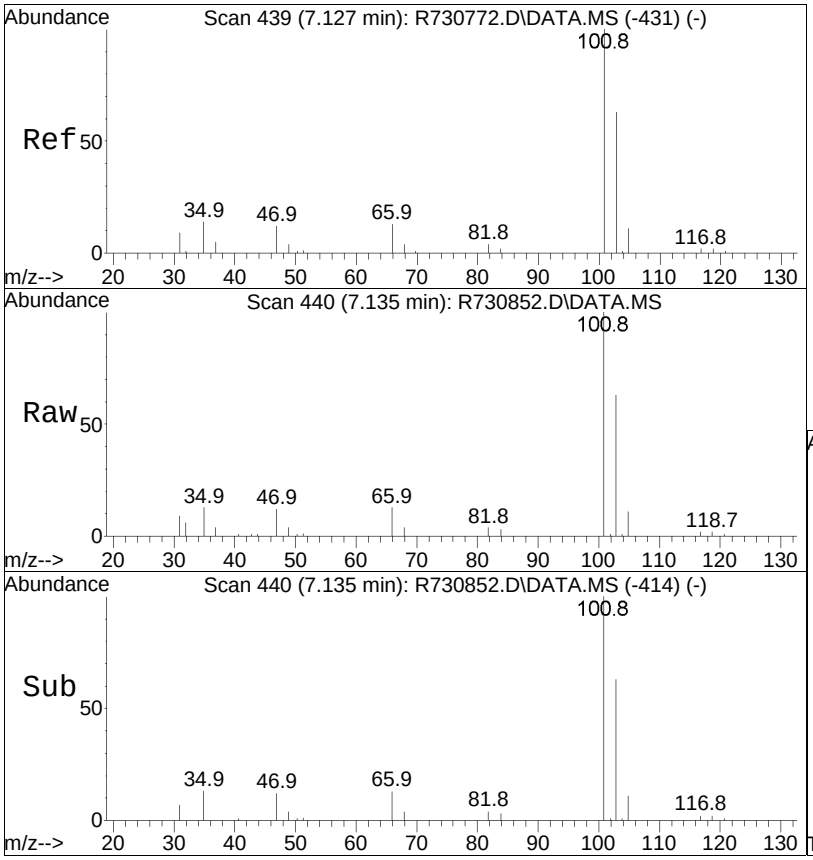


#20
acetonitrile
Concen: 8.27 ppbV
RT: 6.59 min Scan# 372
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 41 Resp: 107842

Ion	Ratio	Lower	Upper
41	100		
40	53.7	44.3	66.5

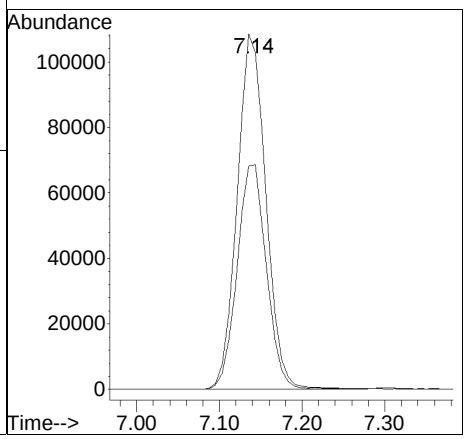


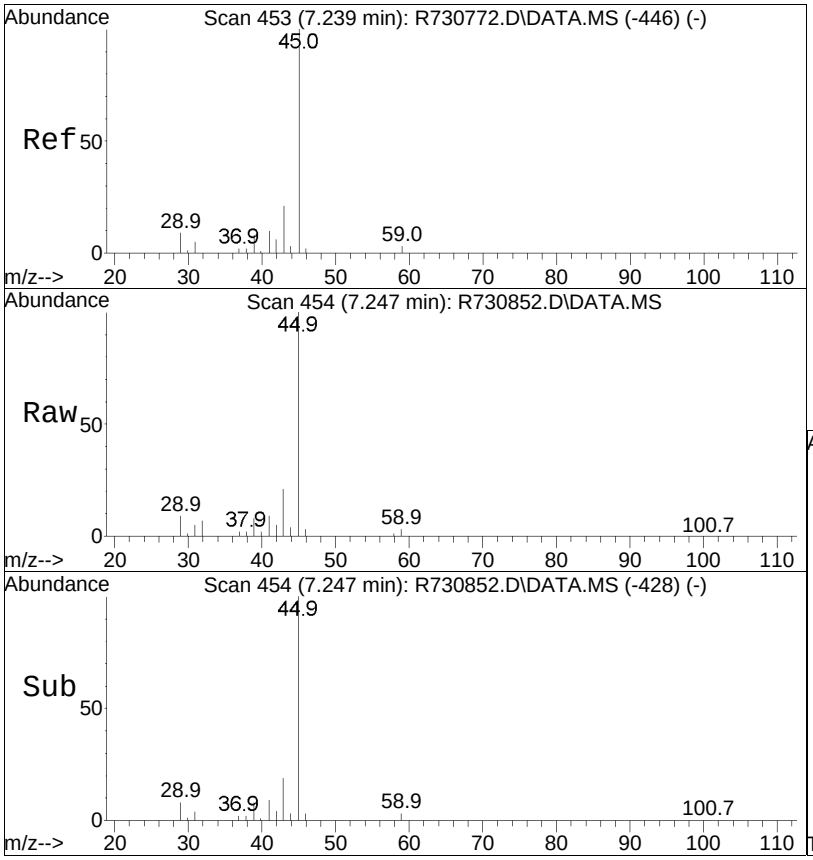


#21
trichlorofluoromethane
Concen: 8.58 ppbV
RT: 7.14 min Scan# 440
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:101 Resp: 262738

Ion	Ratio	Lower	Upper
101	100		
103	62.8	50.3	75.5

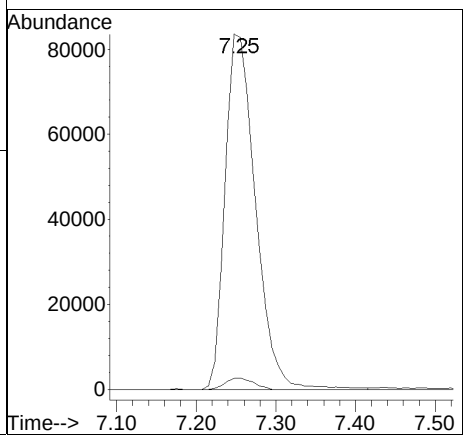


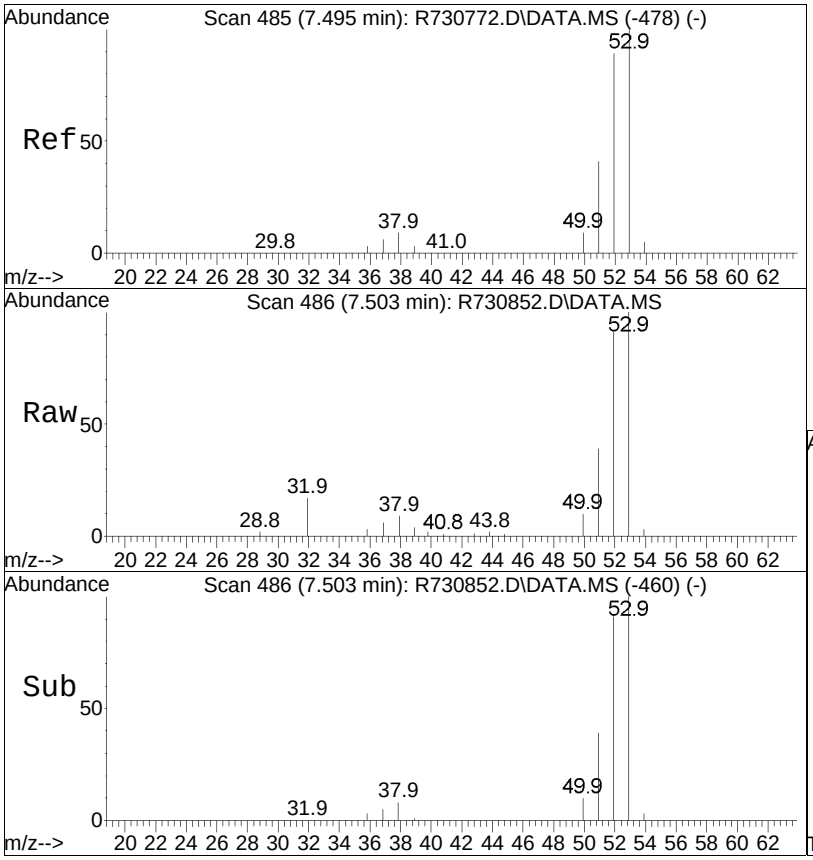


#22
isopropyl alcohol
Concen: 9.36 ppbV
RT: 7.25 min Scan# 454
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 45 Resp: 222462

Ion	Ratio	Lower	Upper
45	100		
59	3.1	2.5	3.7

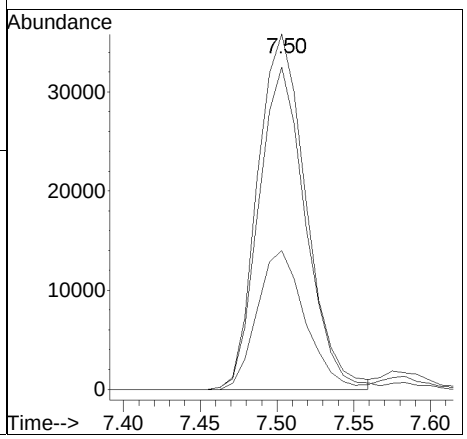


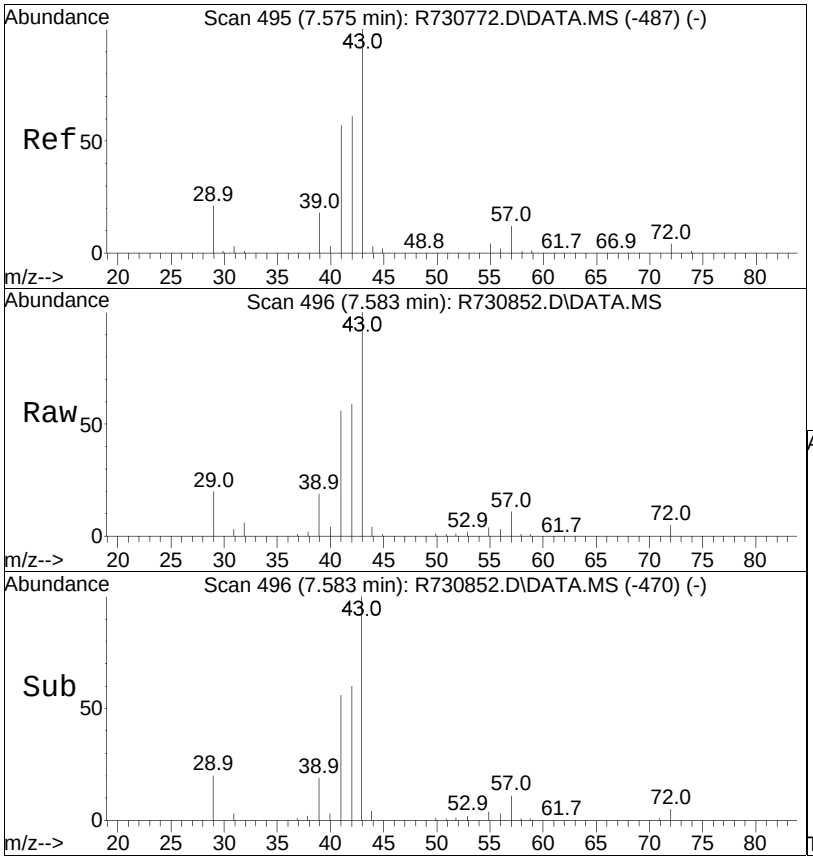


#23
acrylonitrile
Concen: 8.65 ppbV
RT: 7.50 min Scan# 486
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 53 Resp: 78641

Ion	Ratio	Lower	Upper
53	100		
52	90.7	71.0	106.4
51	39.1	33.0	49.6

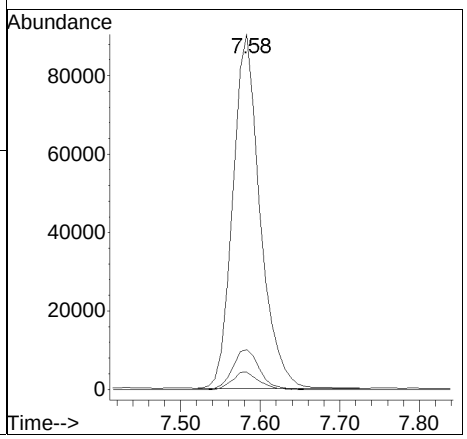


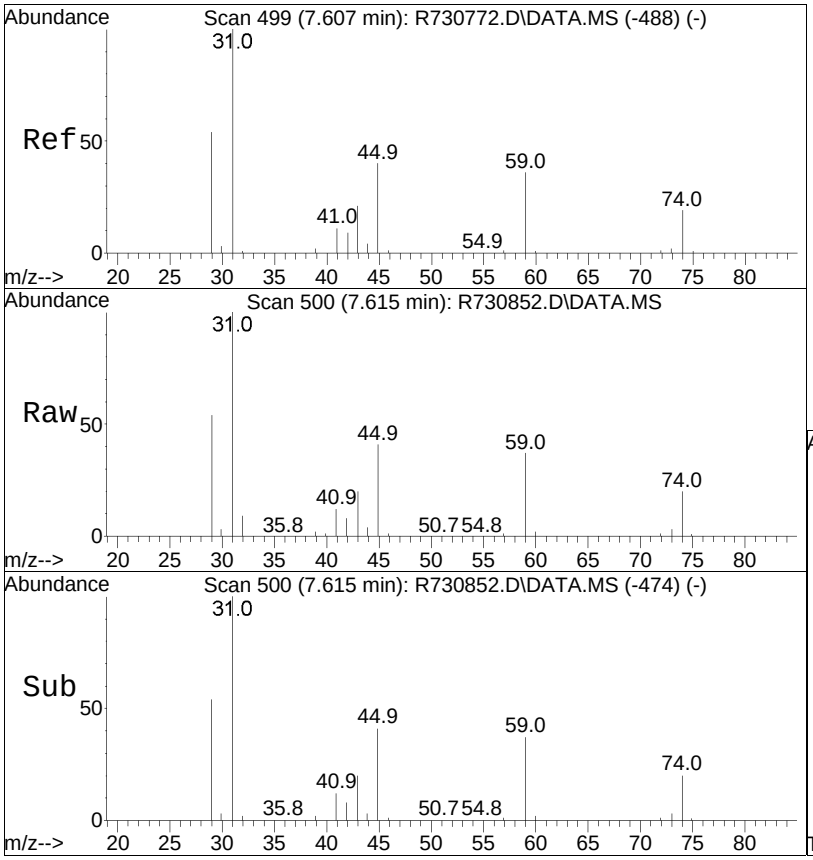


#24
pentane
Concen: 8.45 ppbV
RT: 7.58 min Scan# 496
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 214918

Ion	Ratio	Lower	Upper
43	100		
57	11.2	9.5	14.3
72	4.8	3.5	5.3

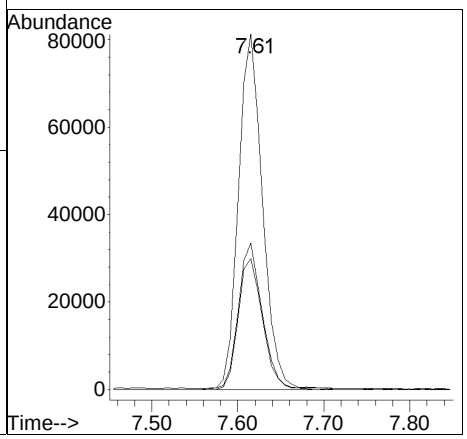


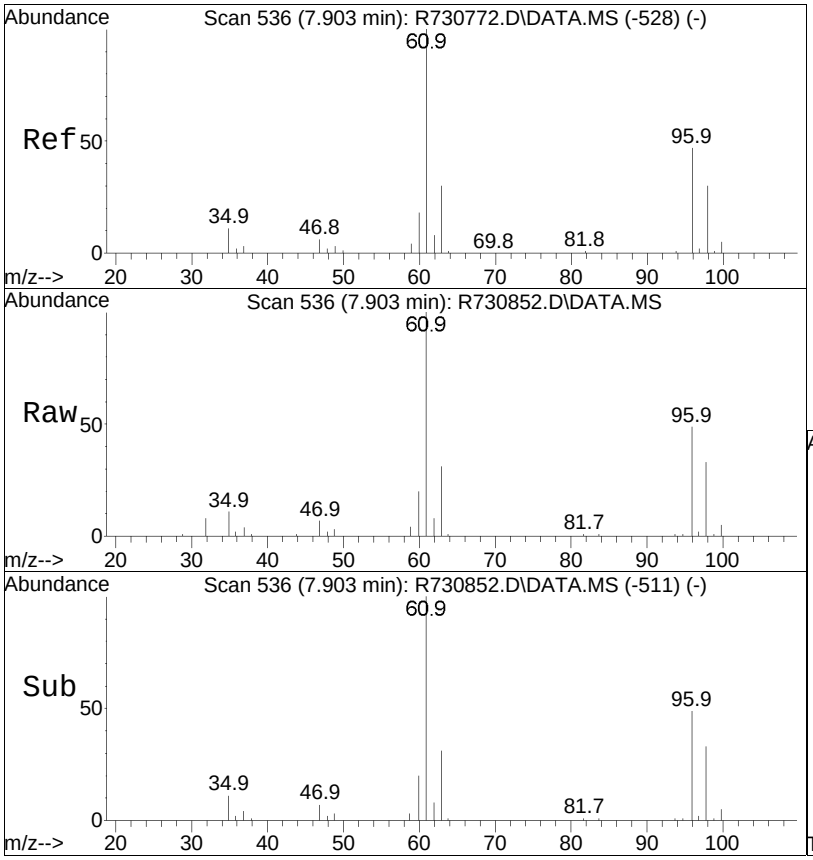


#25
ethyl ether
Concen: 8.18 ppbV
RT: 7.61 min Scan# 500
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 31 Resp: 158939

Ion	Ratio	Lower	Upper
31	100		
59	36.9	28.8	43.2
45	41.2	32.2	48.4

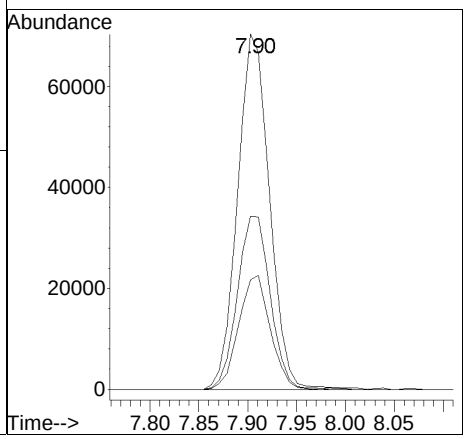


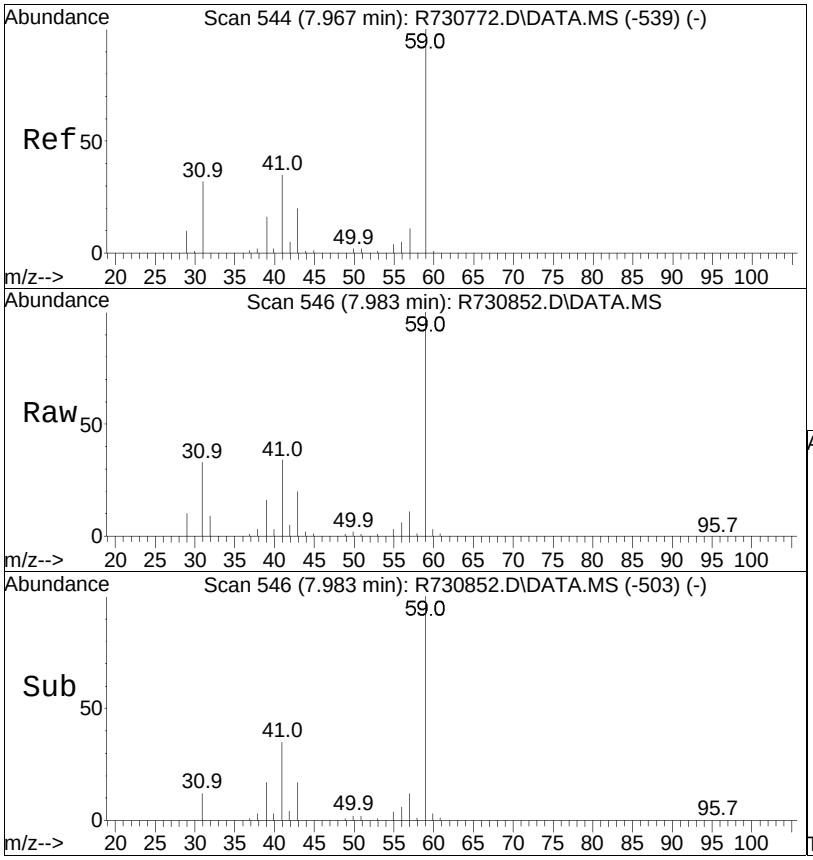


#26
1,1-dichloroethene
Concen: 8.51 ppbV
RT: 7.90 min Scan# 536
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 61 Resp: 160031

Ion	Ratio	Lower	Upper
61	100		
96	48.7	37.3	55.9
63	30.8	23.7	35.5

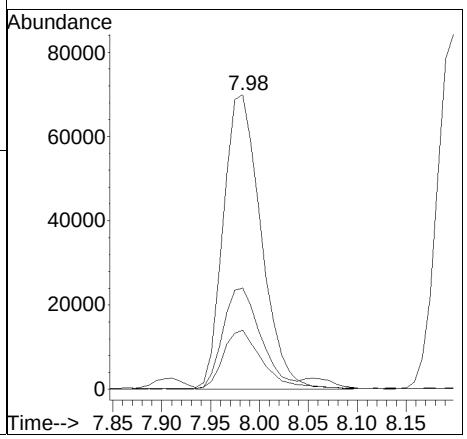


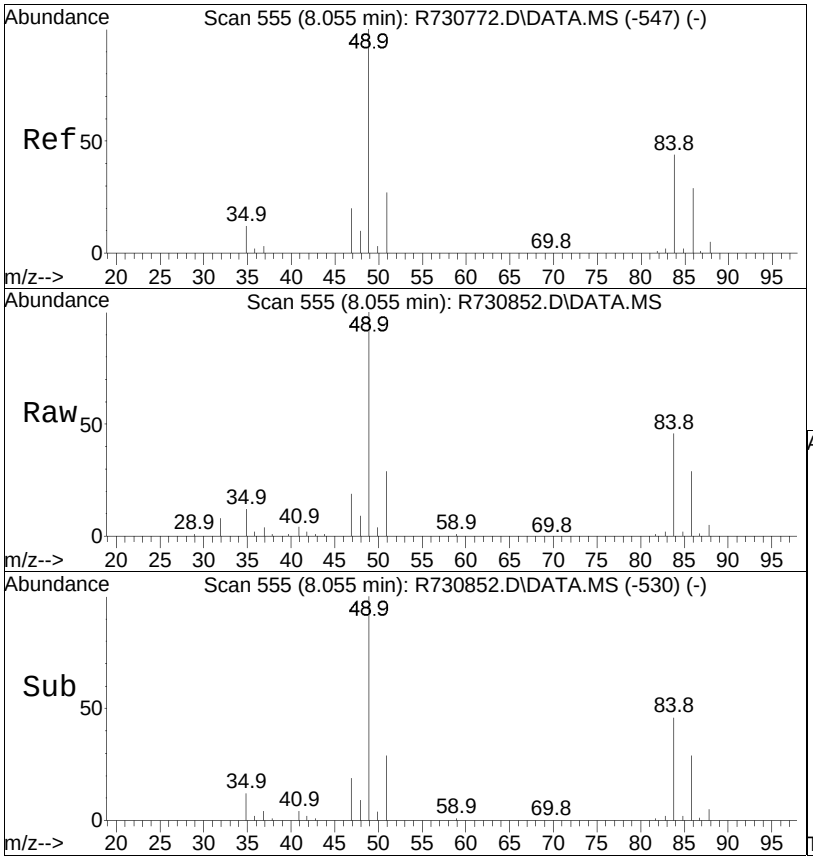


#27
tertiary butyl alcohol
Concen: 8.70 ppbV
RT: 7.98 min Scan# 546
Delta R.T. 0.016 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 59 Resp: 187476

Ion	Ratio	Lower	Upper
59	100		
41	34.4	28.1	42.1
43	20.1	15.7	23.5

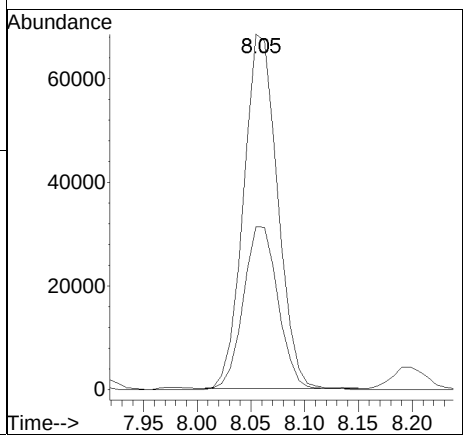


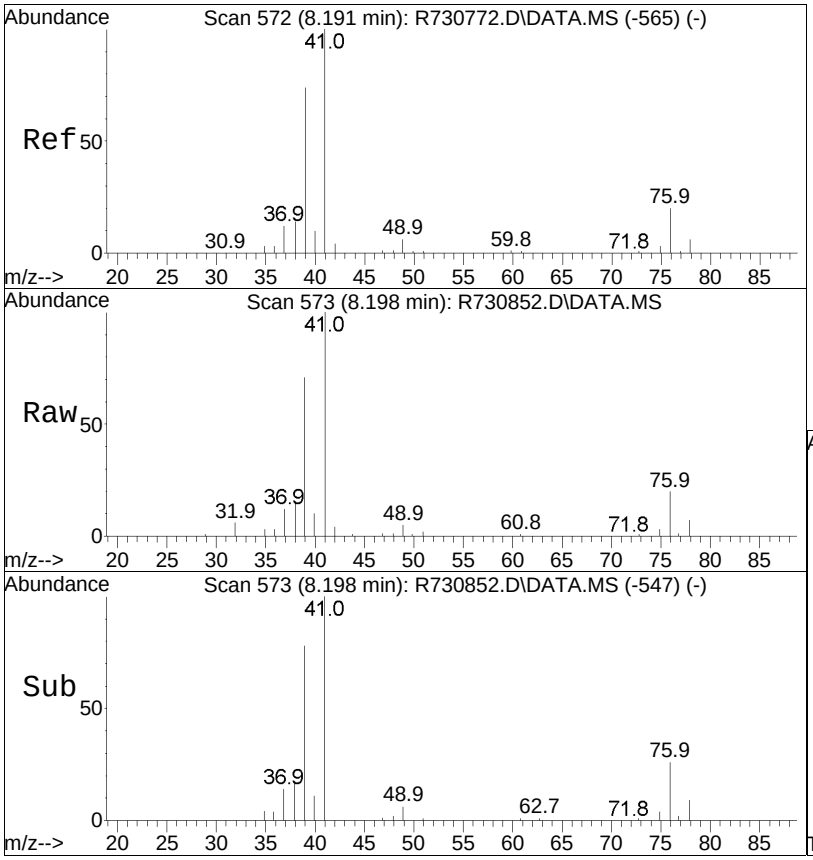


#28
methylene chloride
Concen: 8.42 ppbV
RT: 8.05 min Scan# 555
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 49 Resp: 150819

Ion	Ratio	Lower	Upper
49	100		
84	45.8	35.4	53.2

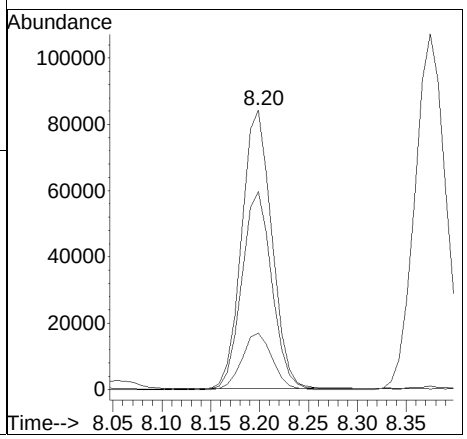


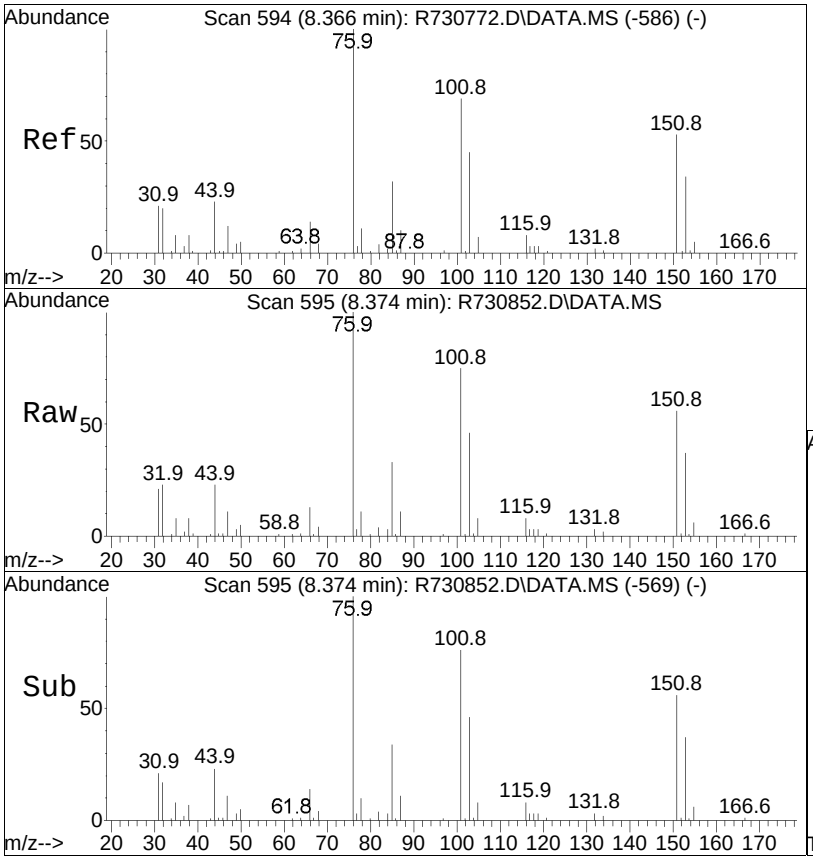


#29
3-chloropropene
Concen: 9.38 ppbV
RT: 8.20 min Scan# 573
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 41 Resp: 180572

Ion	Ratio	Lower	Upper
41	100		
39	70.9	59.1	88.7
76	20.2	16.2	24.2

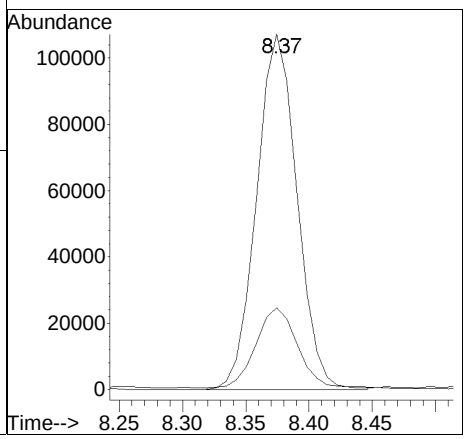


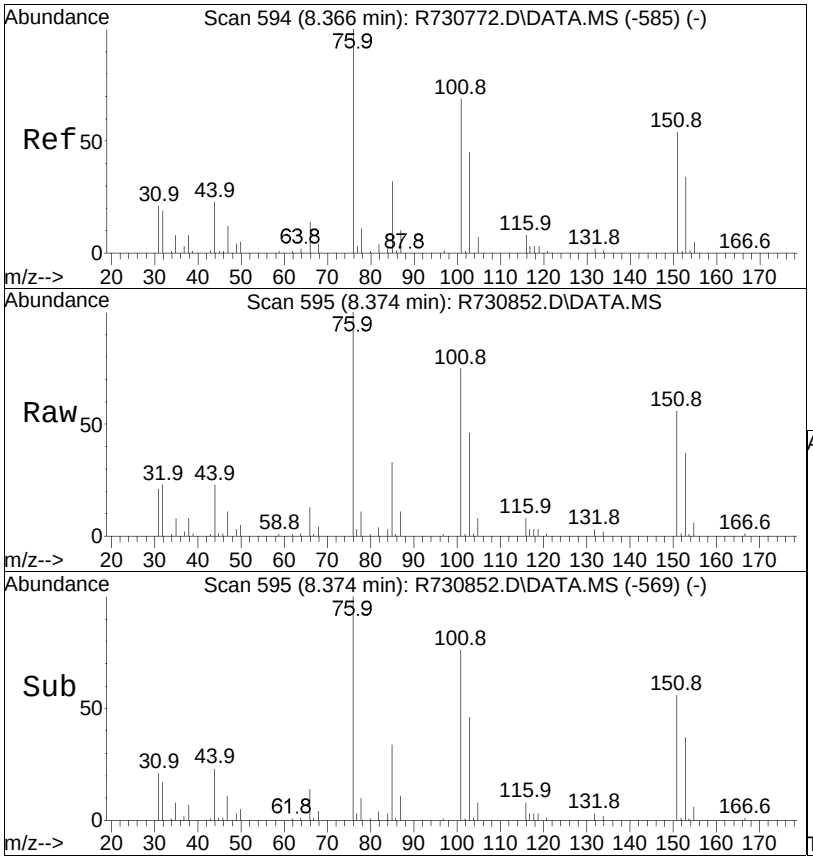


#30
carbon disulfide
Concen: 8.60 ppbV
RT: 8.37 min Scan# 595
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 76 Resp: 237941

Ion	Ratio	Lower	Upper
76	100		
44	23.0	18.6	27.8

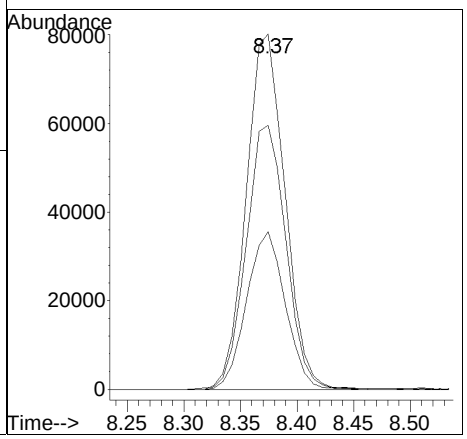


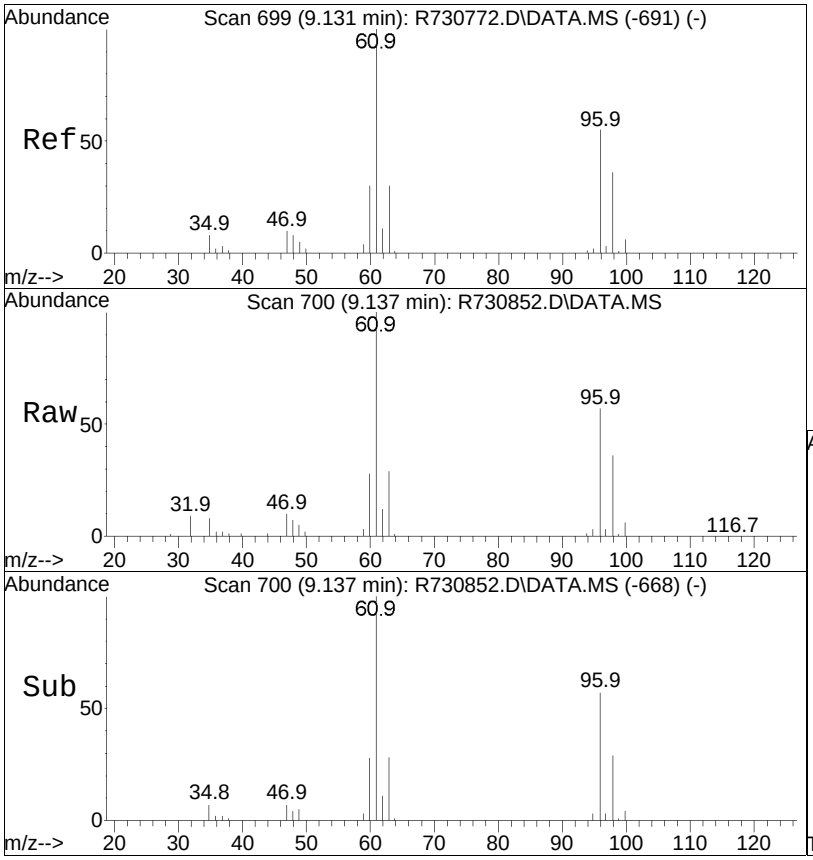


#31
Freon 113
Concen: 8.92 ppbV
RT: 8.37 min Scan# 595
Delta R.T. 0.008 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:101 Resp: 190965

Ion	Ratio	Lower	Upper
101	100		
85	44.4	37.4	56.2
151	74.4	62.6	93.8

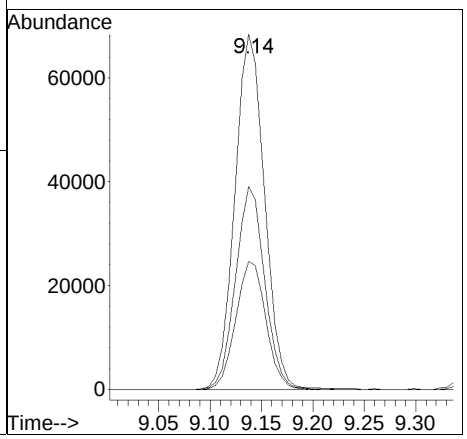


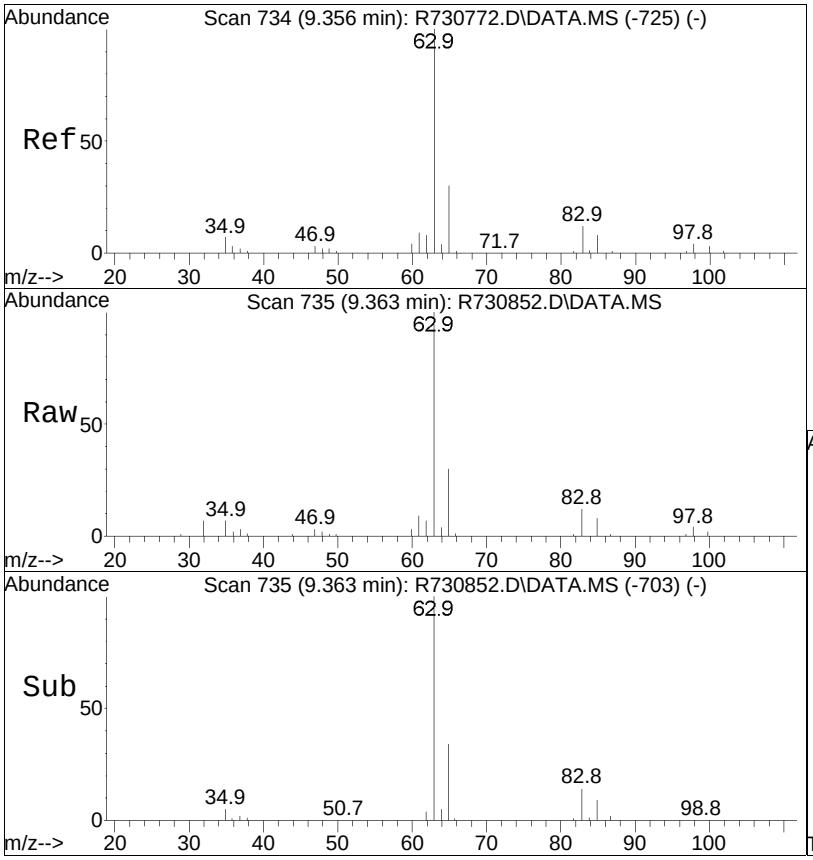


#32
trans-1,2-dichloroethene
Concen: 7.93 ppbV
RT: 9.14 min Scan# 700
Delta R.T. 0.006 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 61 Resp: 137685

Ion	Ratio	Lower	Upper
61	100		
96	57.1	44.2	66.4
98	36.1	28.6	42.8

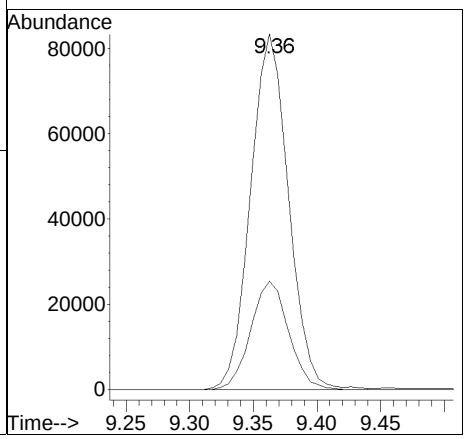


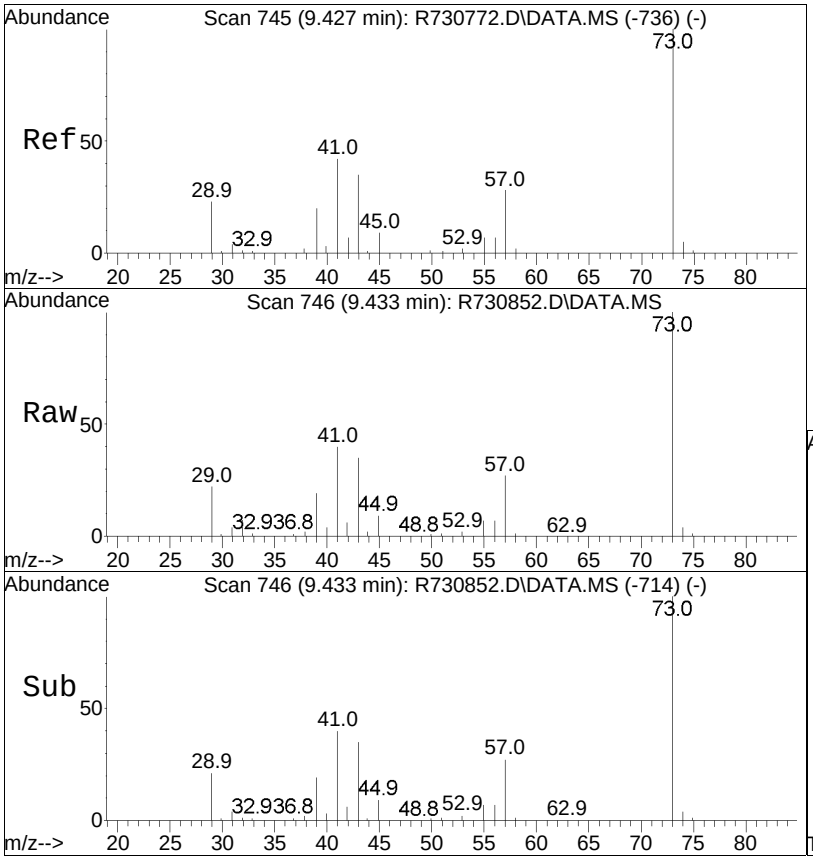


#33
1,1-dichloroethane
Concen: 8.61 ppbV
RT: 9.36 min Scan# 735
Delta R.T. 0.006 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 63 Resp: 172720

Ion	Ratio	Lower	Upper
63	100		
65	30.5	23.8	35.8

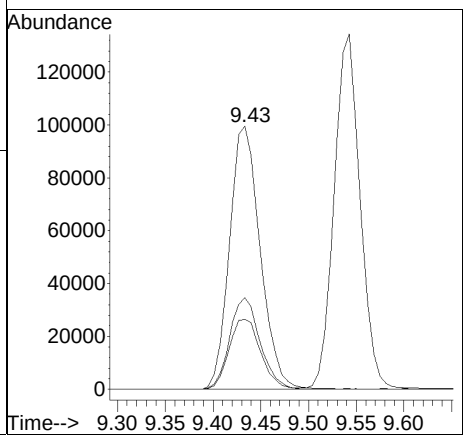


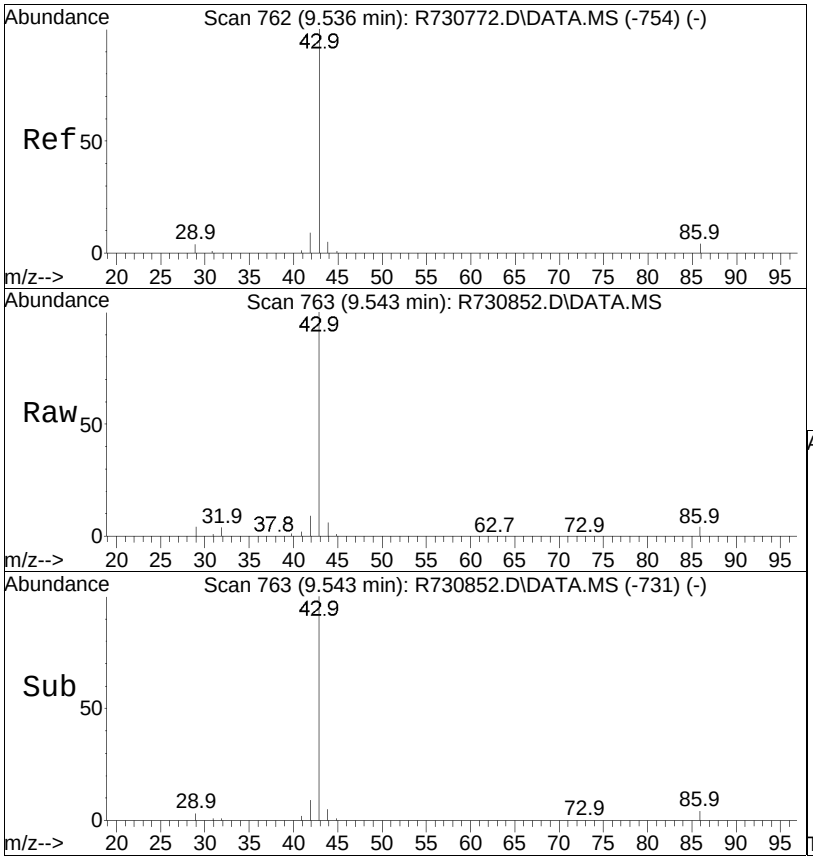


#34
MTBE
Concen: 8.69 ppbV
RT: 9.43 min Scan# 746
Delta R.T. 0.006 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 73 Resp: 223304

Ion	Ratio	Lower	Upper
73	100		
57	26.6	22.5	33.7
43	34.8	28.0	42.0

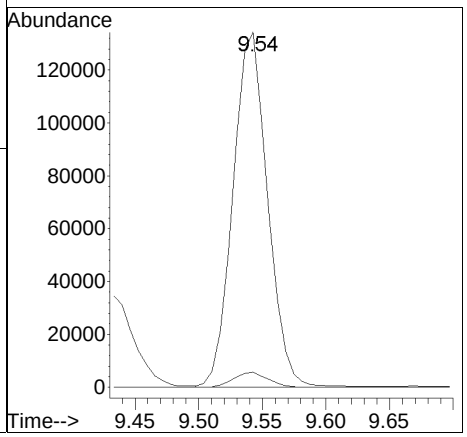


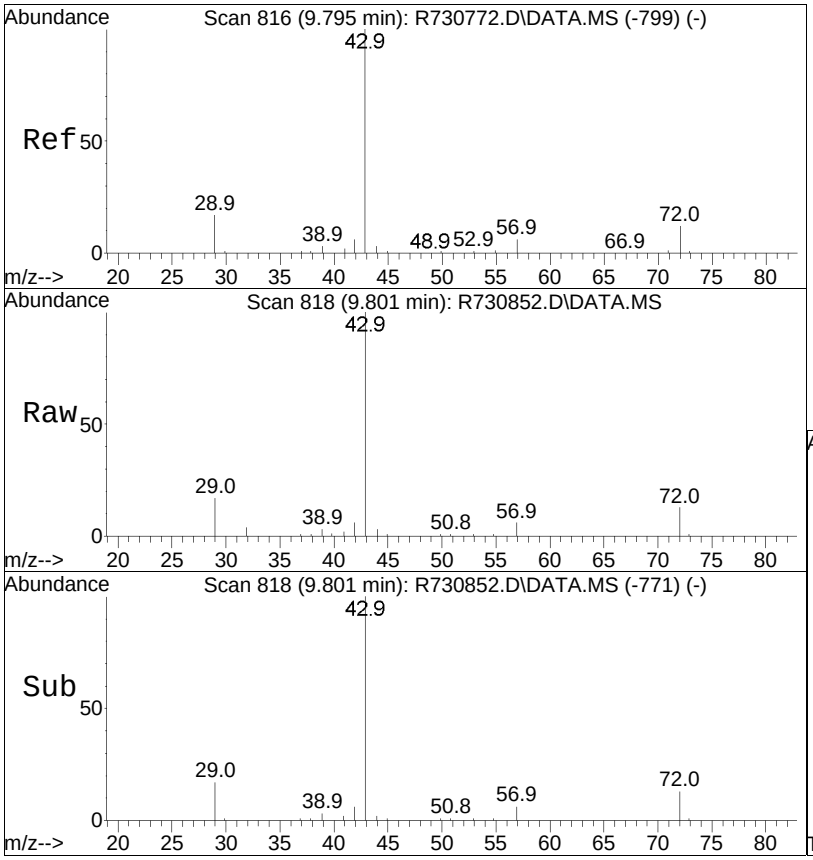


#35
vinyl acetate
Concen: 10.23 ppbV
RT: 9.54 min Scan# 763
Delta R.T. 0.006 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 253382

Ion	Ratio	Lower	Upper
43	100		
86	4.3	3.0	4.4

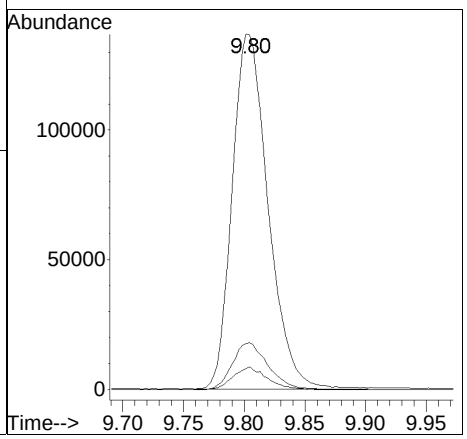


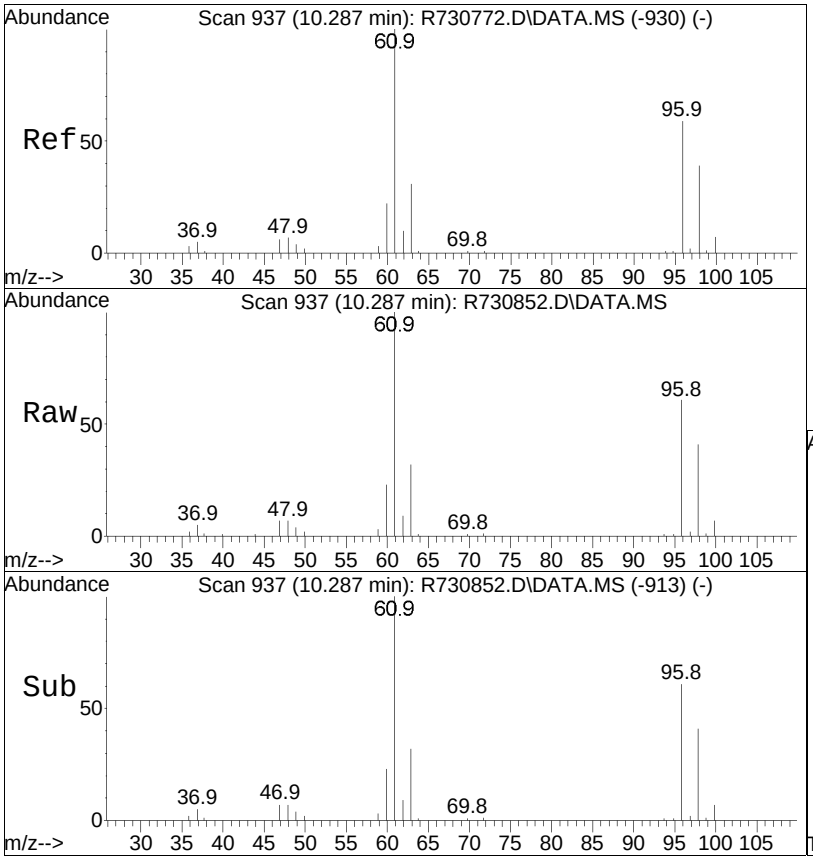


#36
2-butanone
Concen: 8.49 ppbV
RT: 9.80 min Scan# 818
Delta R.T. 0.006 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 281255

Ion	Ratio	Lower	Upper
43	100		
72	12.9	9.9	14.9
57	5.8	4.8	7.2

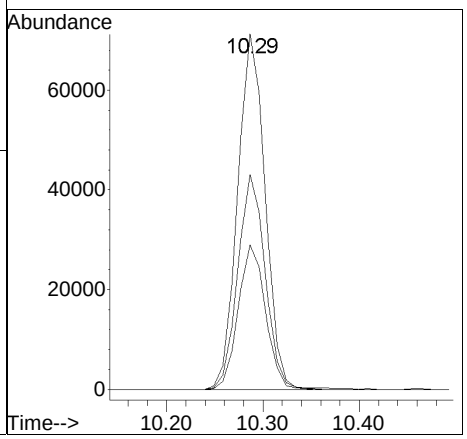


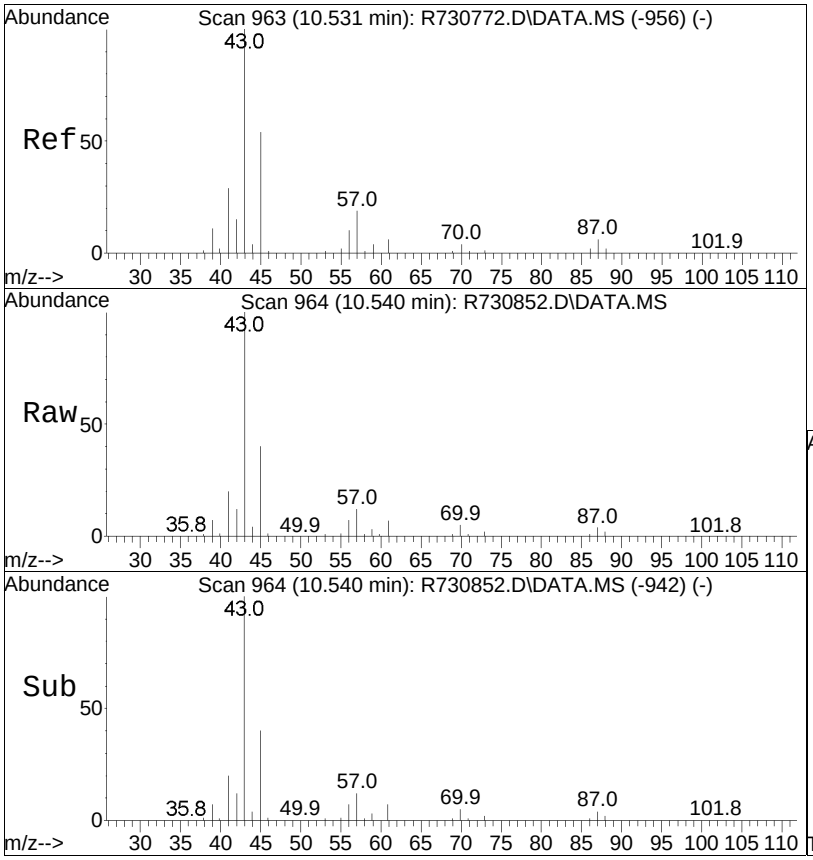


#37
cis-1,2-dichloroethene
Concen: 9.50 ppbV
RT: 10.29 min Scan# 937
Delta R.T. -0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 61 Resp: 141567

Ion	Ratio	Lower	Upper
61	100		
96	60.5	47.0	70.4
98	40.7	31.5	47.3

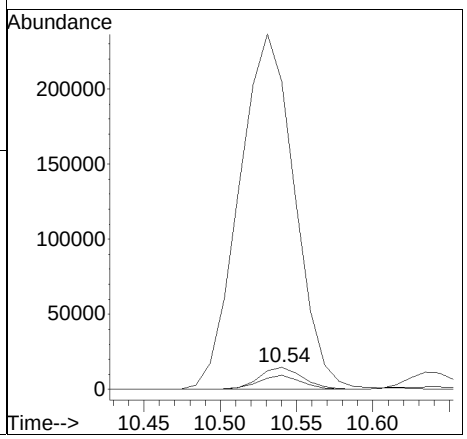


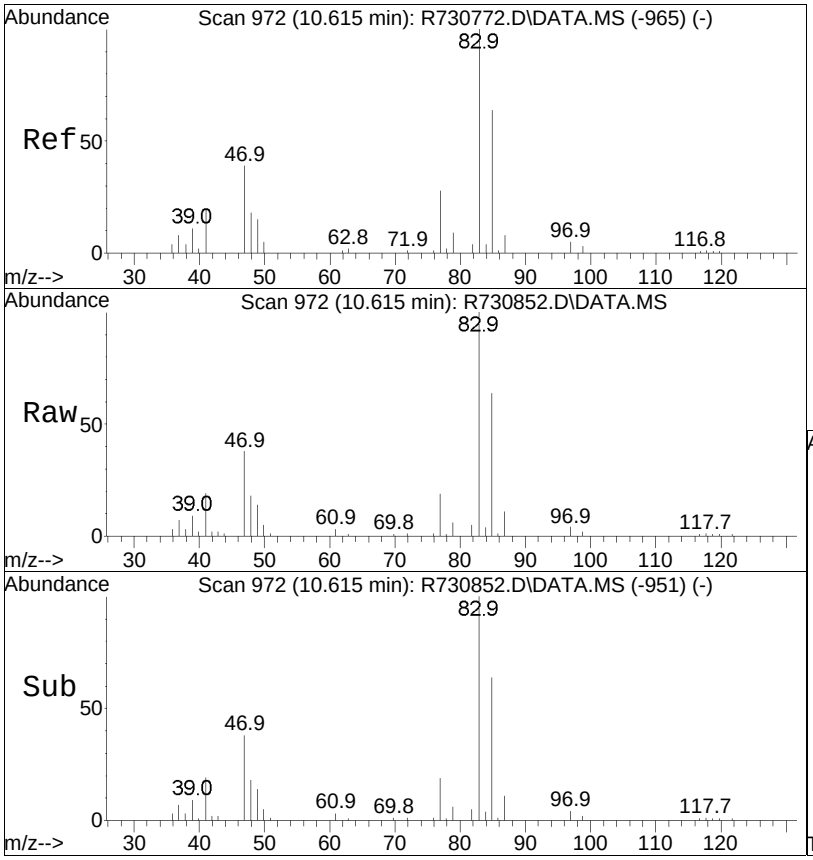


#38
Ethyl Acetate
Concen: 8.86 ppbV
RT: 10.54 min Scan# 964
Delta R.T. 0.009 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 61 Resp: 29613

Ion	Ratio	Lower	Upper
61	100		
70	64.1	50.6	75.8
43	1391.3	1333.2	1999.8

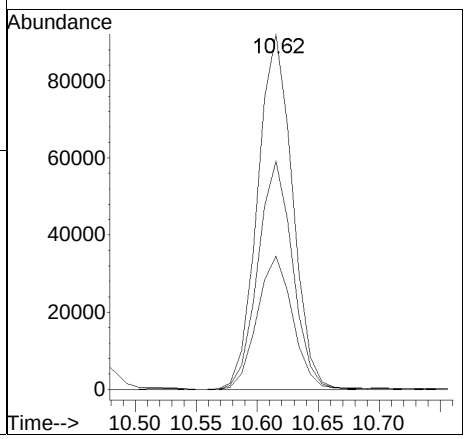


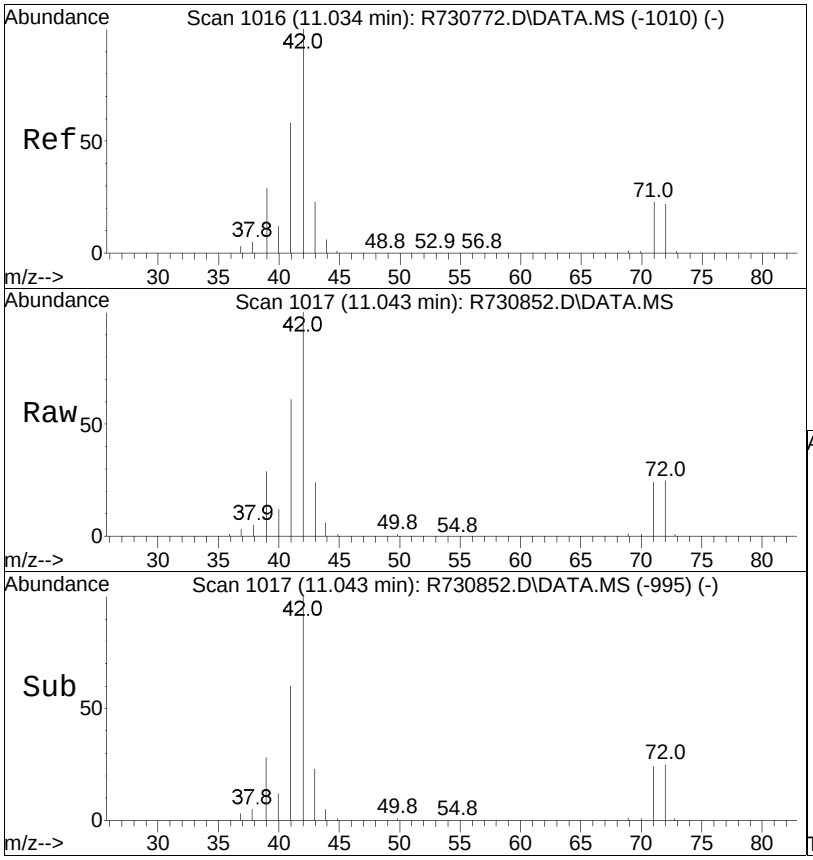


#39
chloroform
Concen: 8.65 ppbV
RT: 10.62 min Scan# 972
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 83 Resp: 183272

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.4	77.0
47	37.6	31.0	46.4

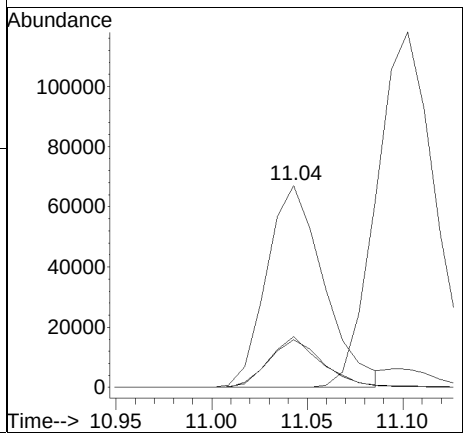


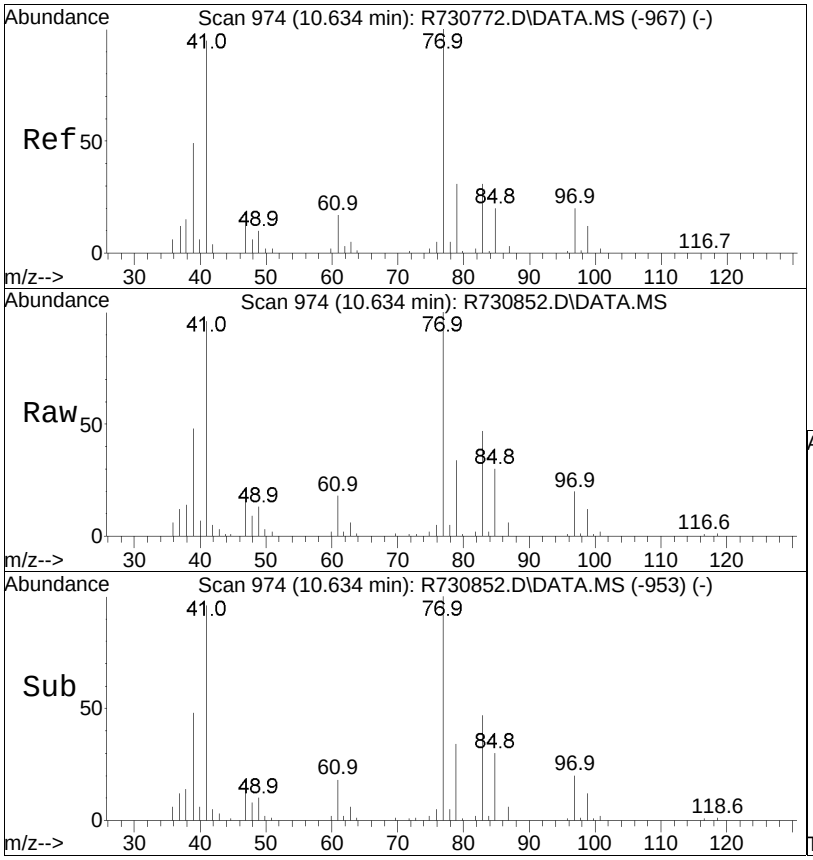


#40
Tetrahydrofuran
Concen: 8.54 ppbV m
RT: 11.04 min Scan# 1017
Delta R.T. 0.009 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 42 Resp: 140285

Ion	Ratio	Lower	Upper
42	100		
71	23.6	18.6	27.8
72	25.2	17.5	26.3
59	0.0	0.0	0.0

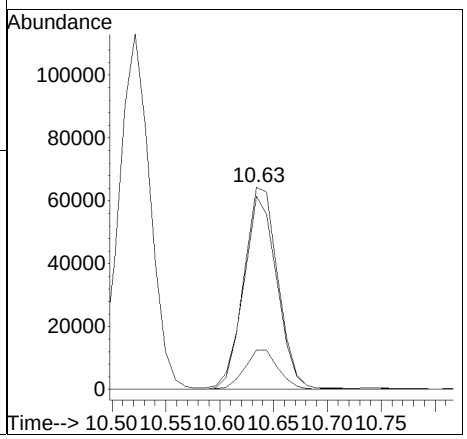


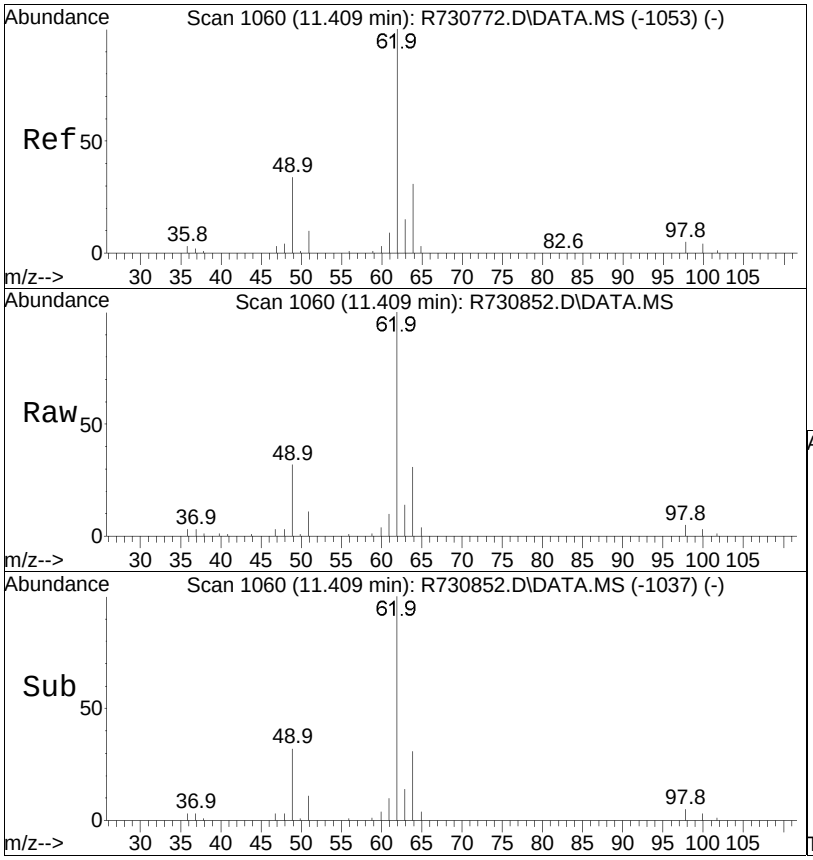


#41
2,2-dichloropropane
Concen: 8.20 ppbV
RT: 10.63 min Scan# 974
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 77 Resp: 141895

Ion	Ratio	Lower	Upper
77	100		
41	95.6	76.5	114.7
97	19.5	15.7	23.5

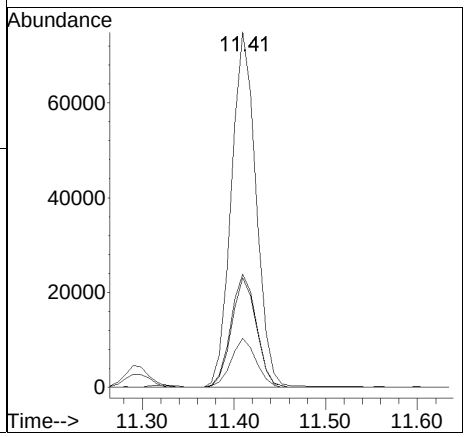


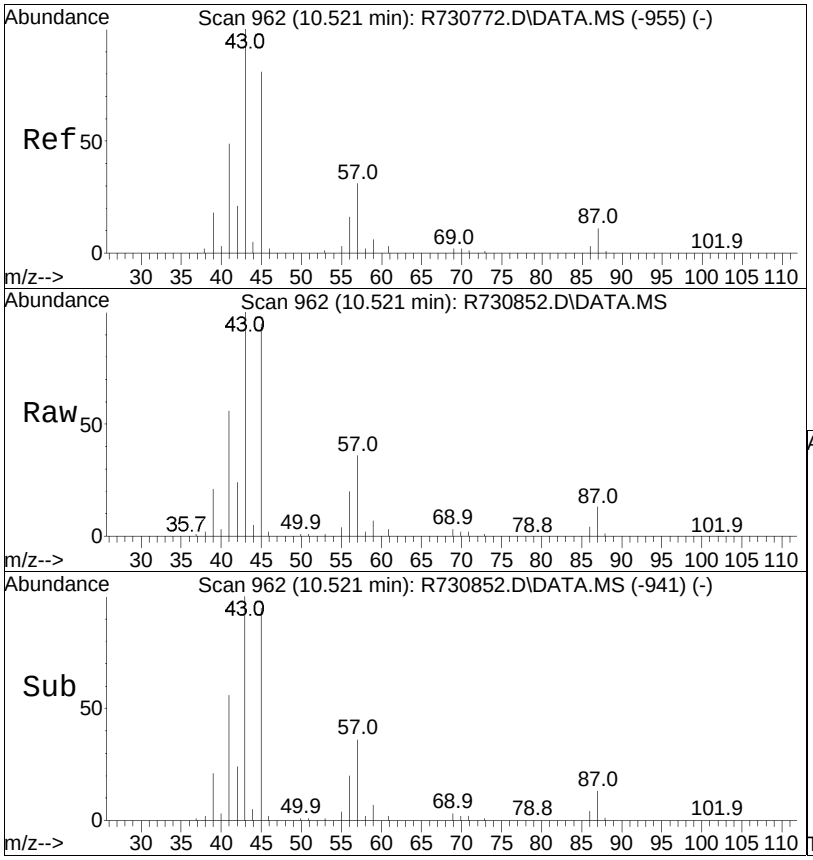


#42
1,2-dichloroethane
Concen: 8.75 ppbV
RT: 11.41 min Scan# 1060
Delta R.T. -0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 62 Resp: 141212

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.0	37.4
49	31.9	27.0	40.6
63	13.8	11.7	17.5

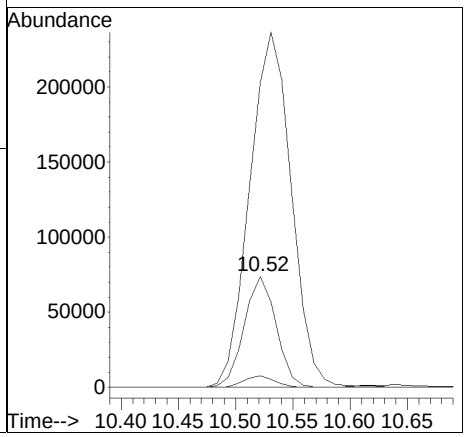


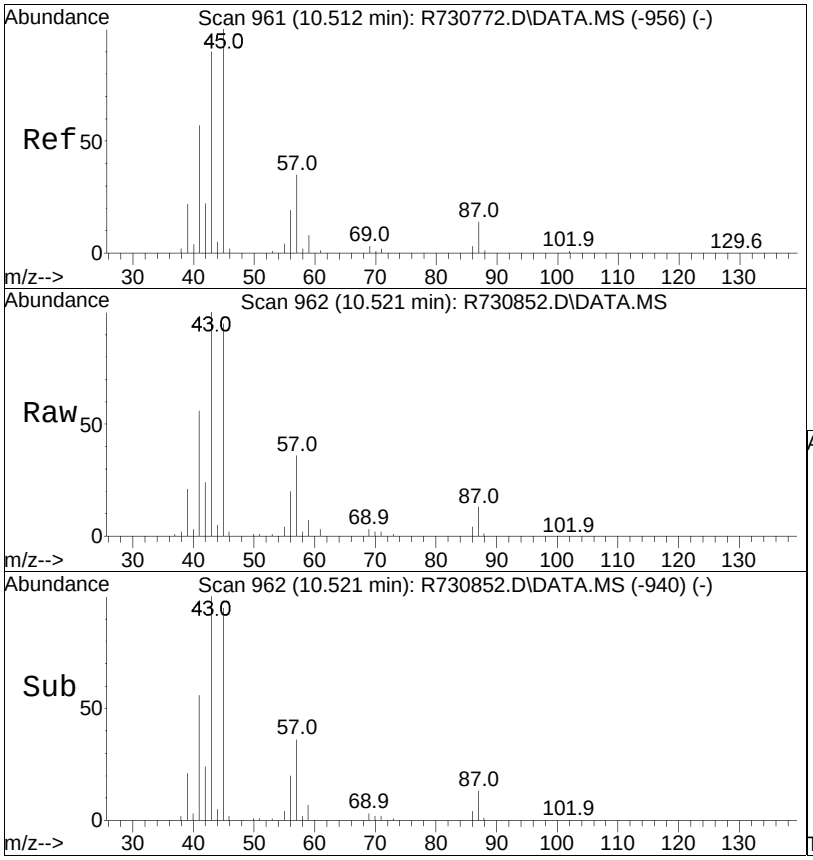


#44
hexane
Concen: 8.61 ppbV
RT: 10.52 min Scan# 962
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 57 Resp: 143946

Ion	Ratio	Lower	Upper
57	100		
43	274.4	259.9	389.9
86	10.6	8.2	12.4

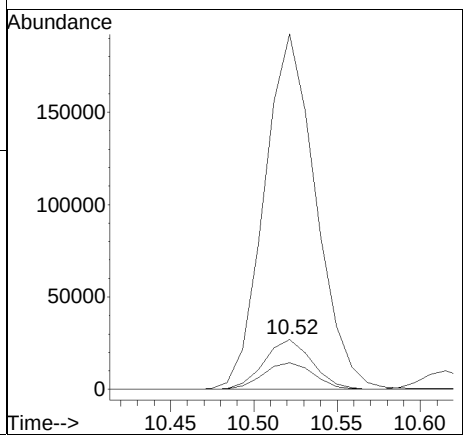


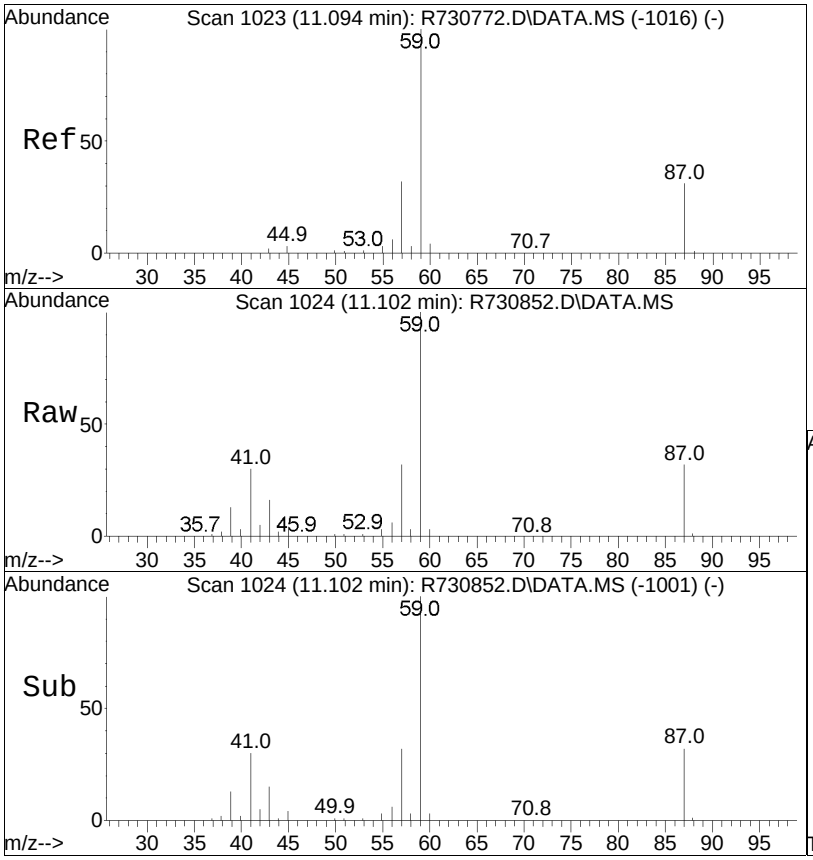


#45
diisopropyl ether
Concen: 8.26 ppbV
RT: 10.52 min Scan# 962
Delta R.T. 0.009 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 87 Resp: 54478

Ion	Ratio	Lower	Upper
87	100		
59	53.4	43.5	65.3
45	712.3	562.7	844.1

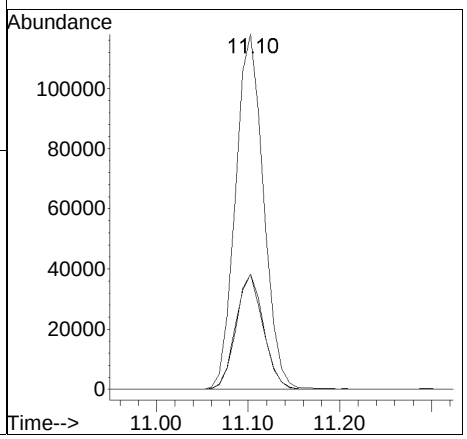


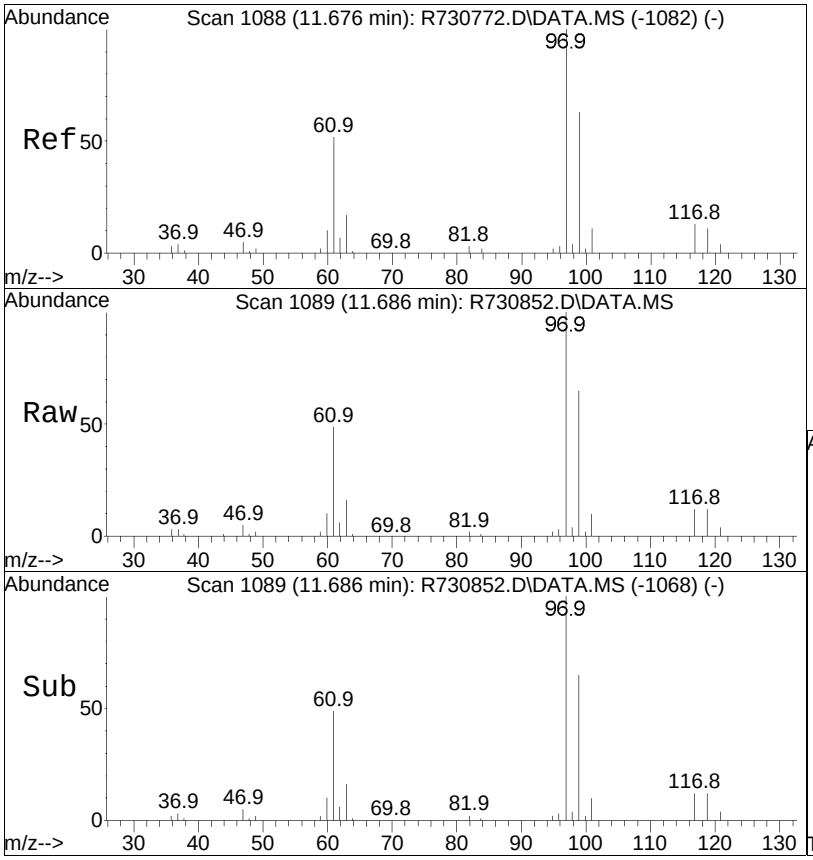


#46
tert-butyl ethyl ether
Concen: 8.10 ppbV
RT: 11.10 min Scan# 1024
Delta R.T. 0.009 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 59 Resp: 251778

Ion	Ratio	Lower	Upper
59	100		
87	32.4	25.0	37.4
57	32.5	25.8	38.8

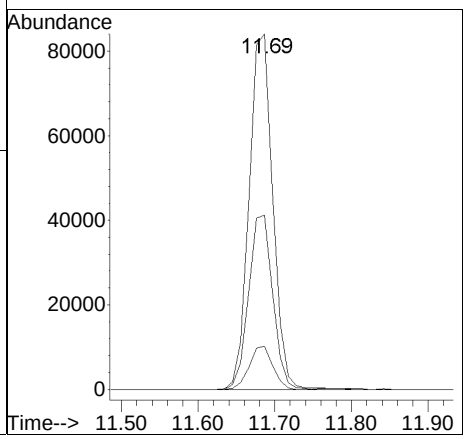


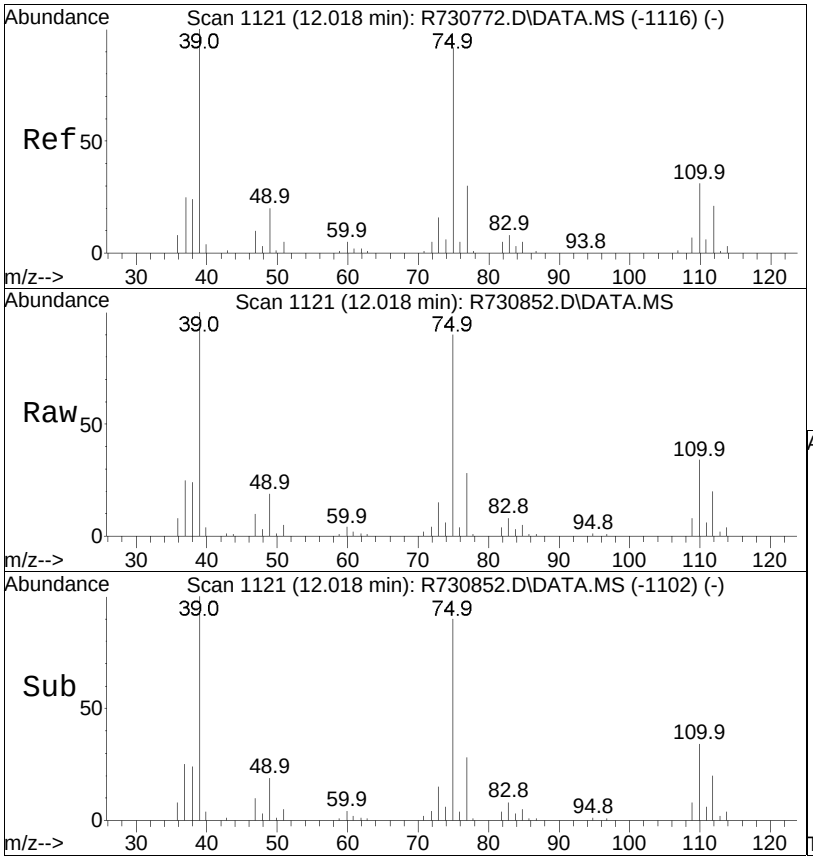


#48
1,1,1-trichloroethane
Concen: 9.09 ppbV
RT: 11.69 min Scan# 1089
Delta R.T. 0.010 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 97 Resp: 195607

Ion	Ratio	Lower	Upper
97	100		
61	49.0	41.3	61.9
119	12.2	9.0	13.6

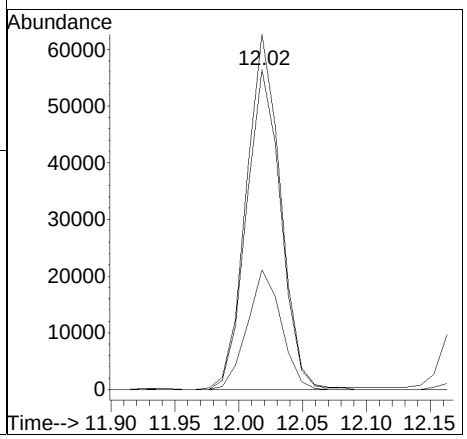


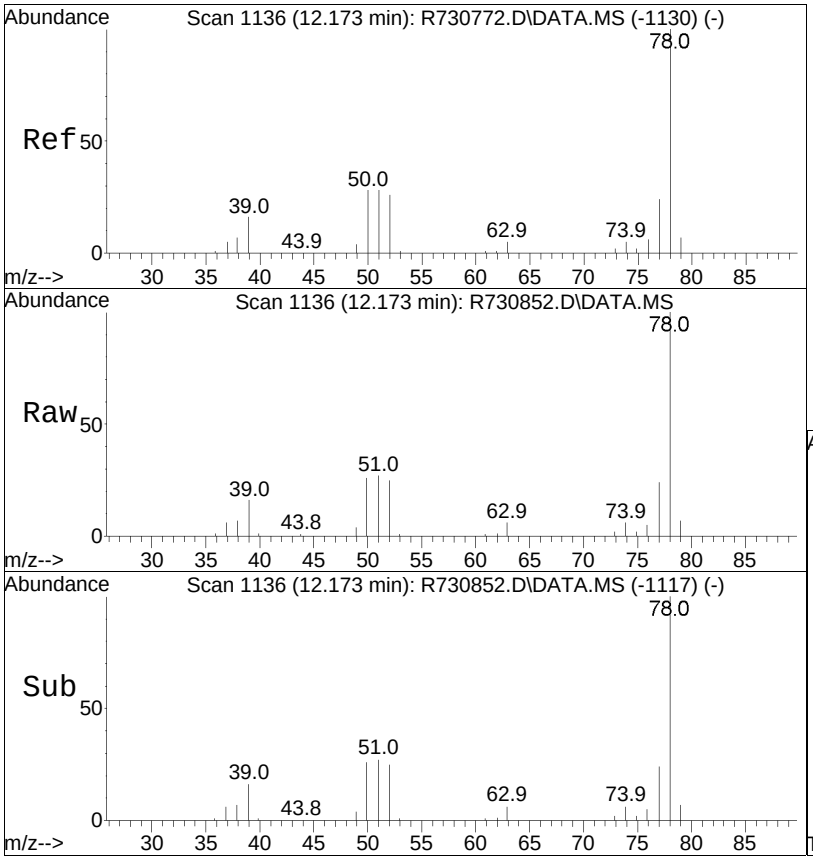


#49
1,1-dichloropropene
Concen: 8.67 ppbV
RT: 12.02 min Scan# 1121
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 75 Resp: 105765

Ion	Ratio	Lower	Upper
75	100		
110	37.4	27.0	40.4
39	111.1	87.0	130.6

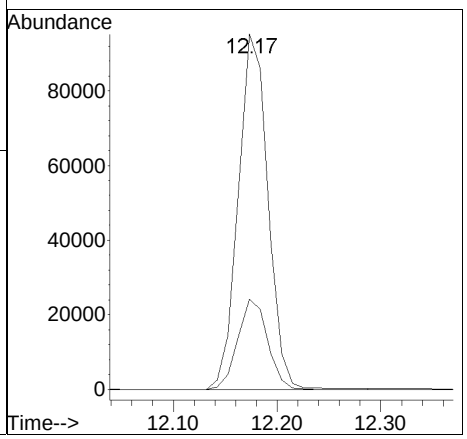


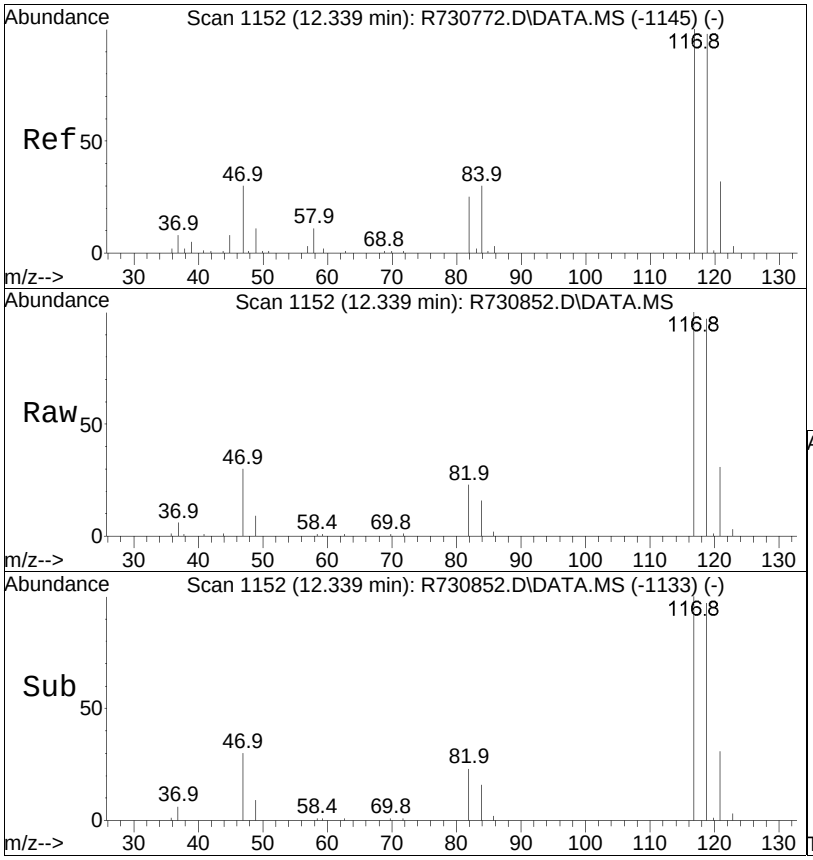


#50
benzene
Concen: 8.44 ppbV
RT: 12.17 min Scan# 1136
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 78 Resp: 189680

Ion	Ratio	Lower	Upper
78	100		
52	25.4	20.8	31.2

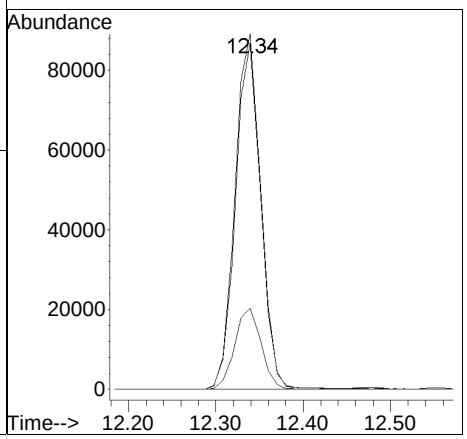


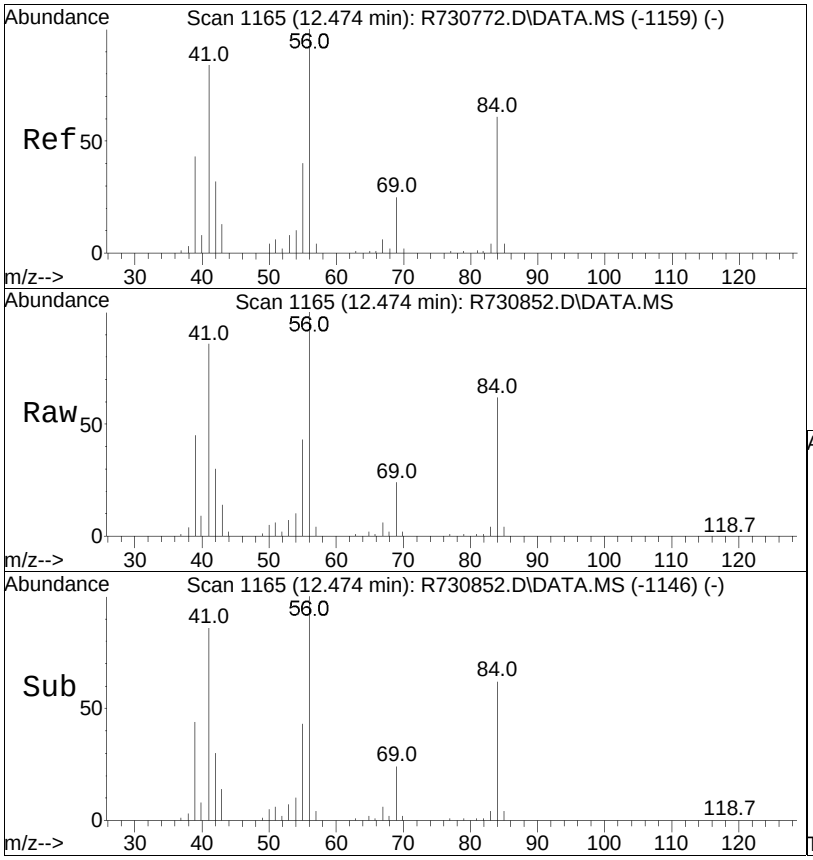


#52
carbon tetrachloride
Concen: 9.51 ppbV
RT: 12.34 min Scan# 1152
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:117 Resp: 183479

Ion	Ratio	Lower	Upper
117	100		
119	97.4	78.7	118.1
82	22.9	20.2	30.2

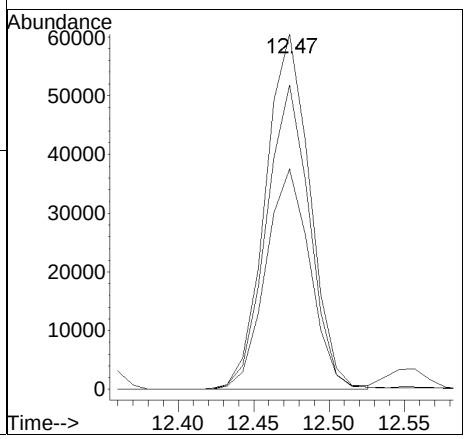


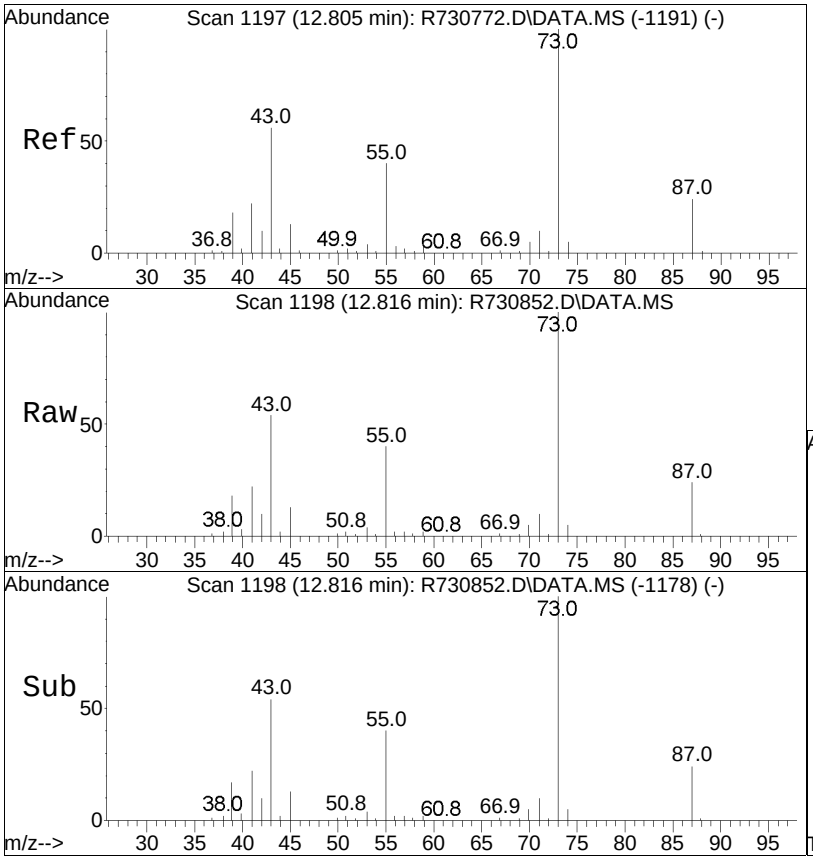


#53
cyclohexane
Concen: 8.68 ppbV
RT: 12.47 min Scan# 1165
Delta R.T. -0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 56 Resp: 124301

Ion	Ratio	Lower	Upper
56	100		
84	62.0	49.6	74.4
41	85.6	67.0	100.4

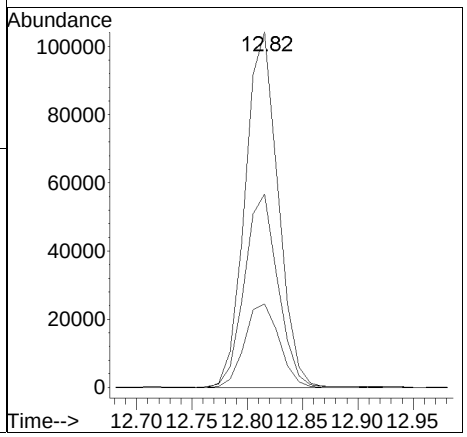


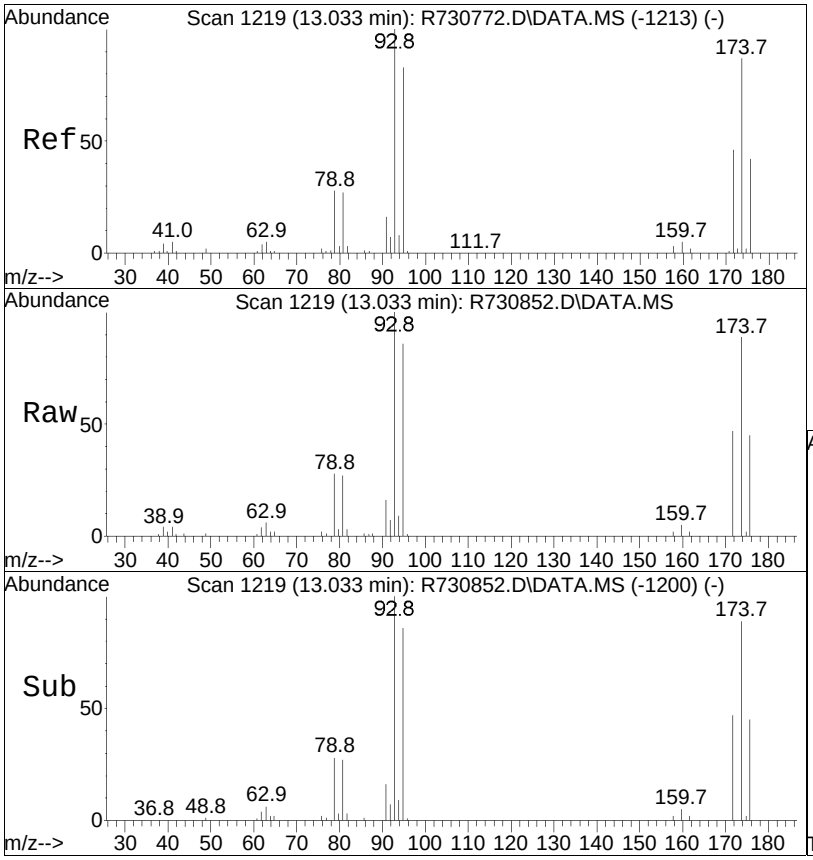


#54
tert-amyl methyl ether
Concen: 8.19 ppbV
RT: 12.82 min Scan# 1198
Delta R.T. 0.010 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 73 Resp: 216331

Ion	Ratio	Lower	Upper
73	100		
43	54.4	45.0	67.4
87	23.5	19.0	28.4

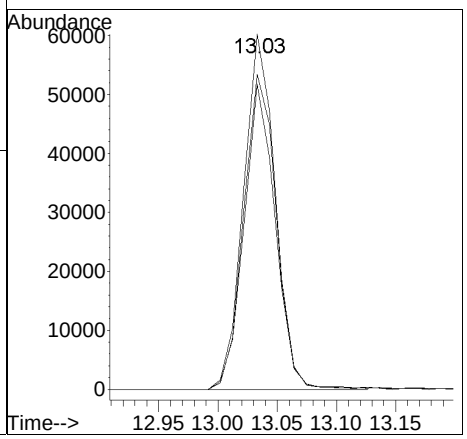


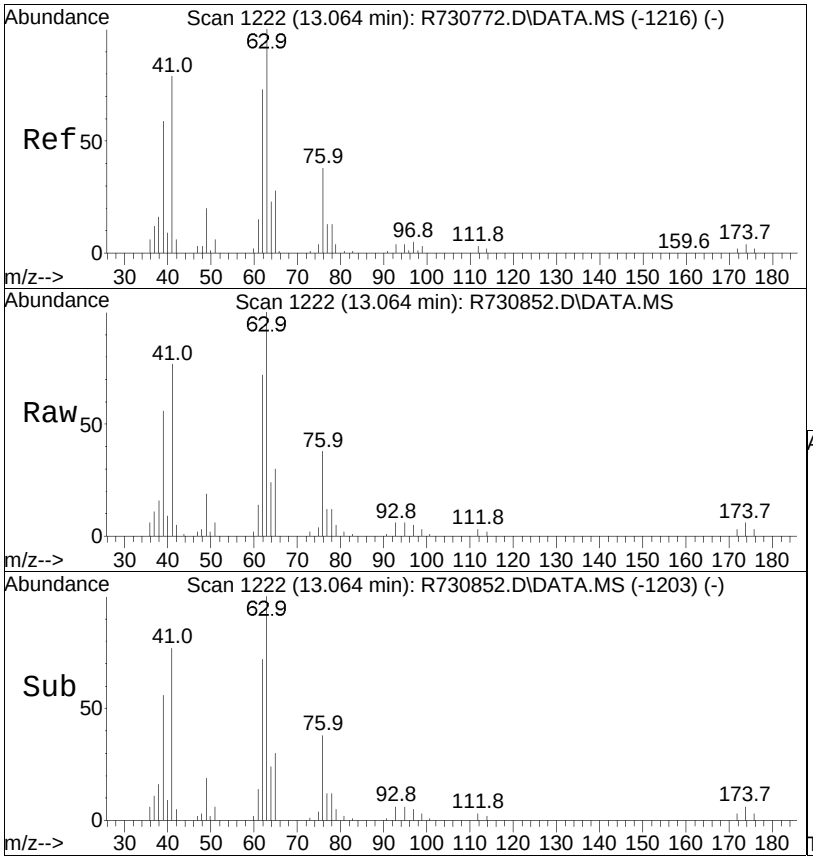


#55
dibromomethane
Concen: 8.01 ppbV
RT: 13.03 min Scan# 1219
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 93 Resp: 112431

Ion	Ratio	Lower	Upper
93	100		
174	88.7	69.4	104.2
95	85.9	66.3	99.5

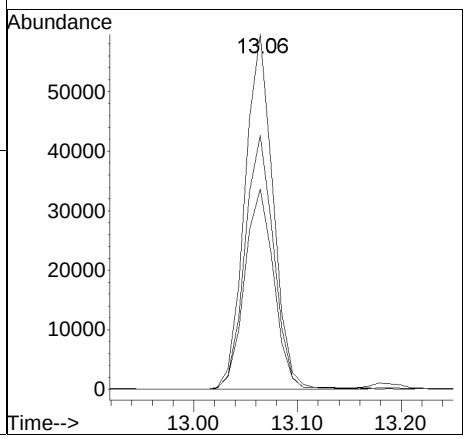


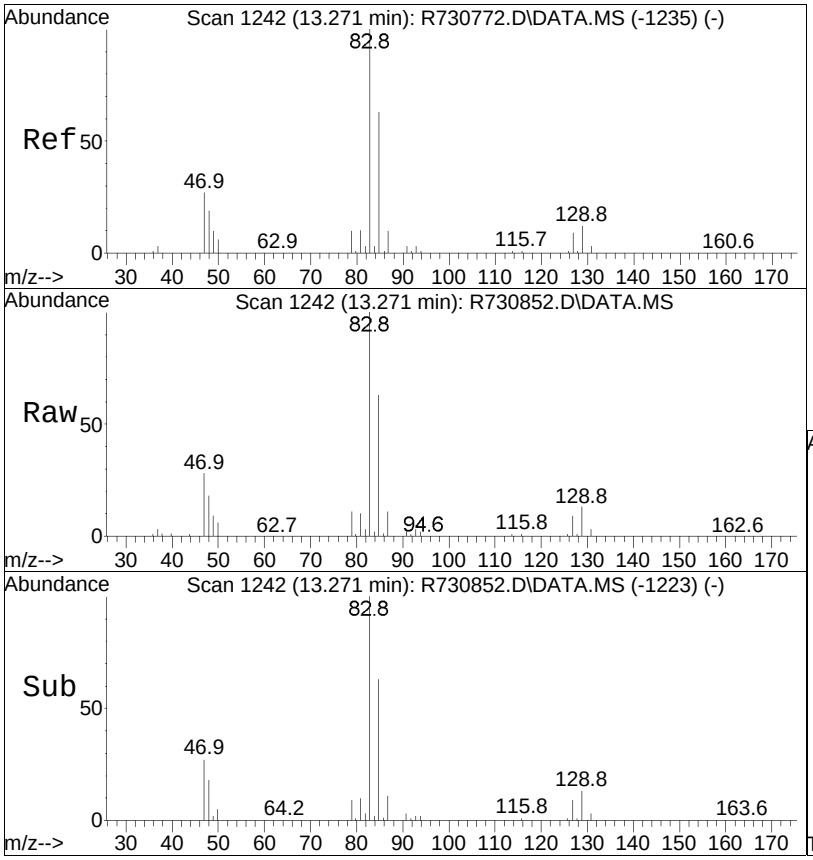


#56
1,2-dichloropropane
Concen: 8.68 ppbV
RT: 13.06 min Scan# 1222
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 63 Resp: 113304

Ion	Ratio	Lower	Upper
63	100		
62	71.5	58.3	87.5
39	56.4	47.0	70.4

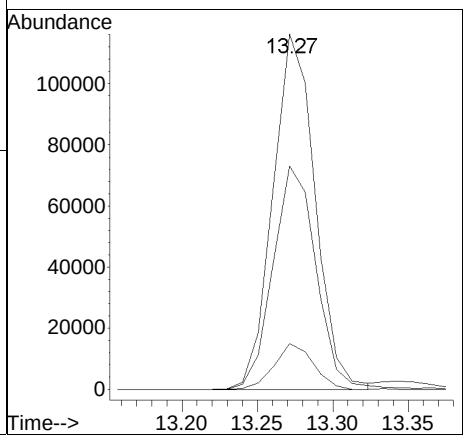


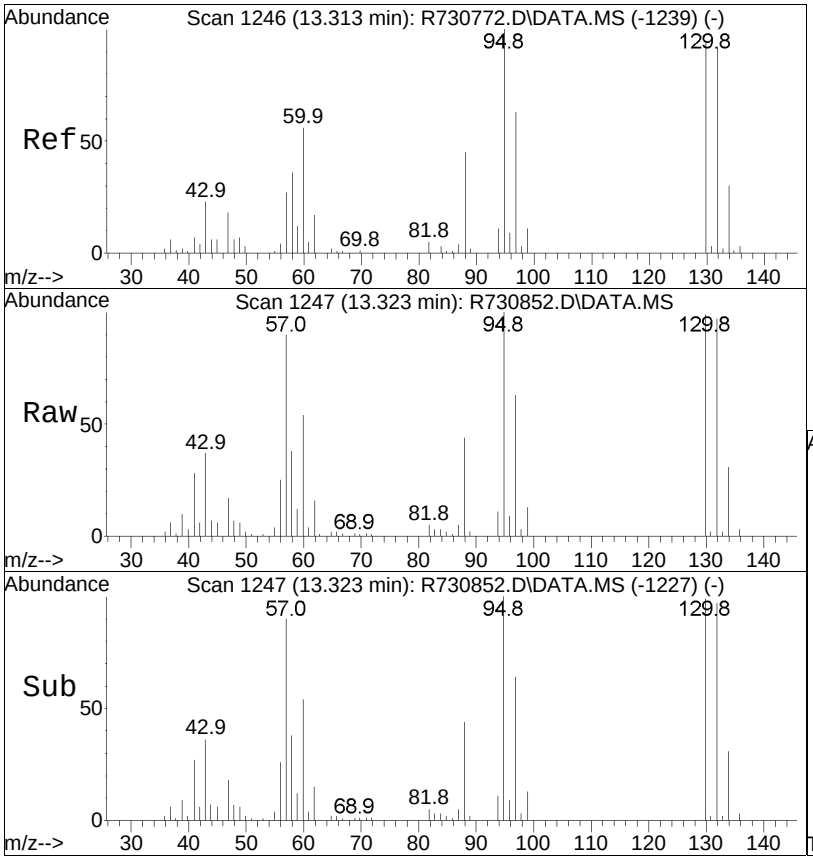


#57
bromodichloromethane
Concen: 8.87 ppbV
RT: 13.27 min Scan# 1242
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 83 Resp: 226199

Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.2	75.4
129	12.9	9.4	14.2

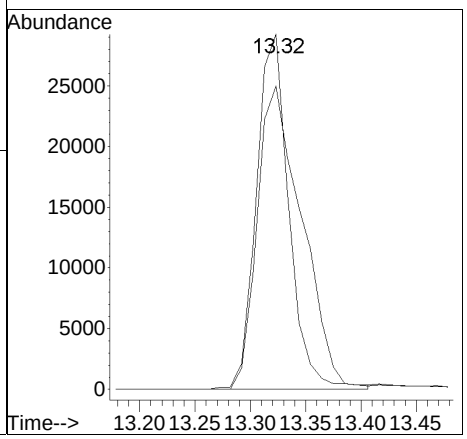


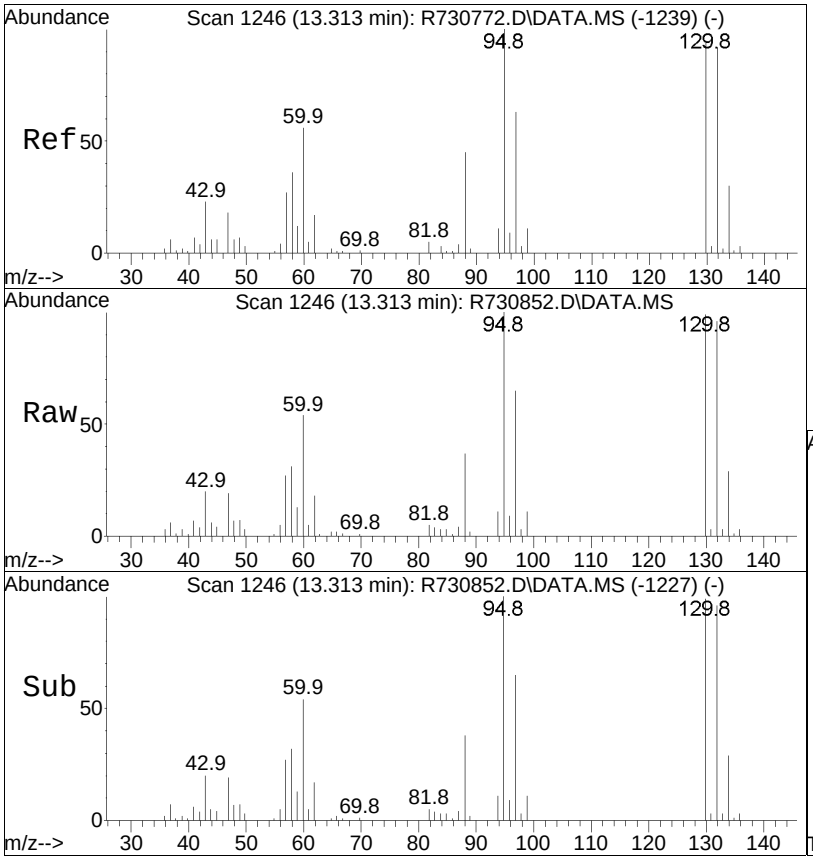


#58
1,4-dioxane
Concen: 8.68 ppbV
RT: 13.32 min Scan# 1247
Delta R.T. 0.010 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 88 Resp: 60010

Ion	Ratio	Lower	Upper
88	100		
58	85.4	65.0	97.6

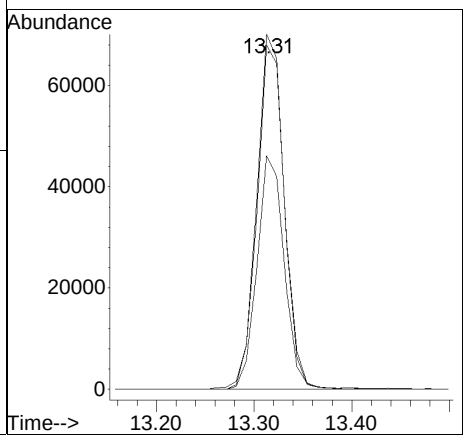


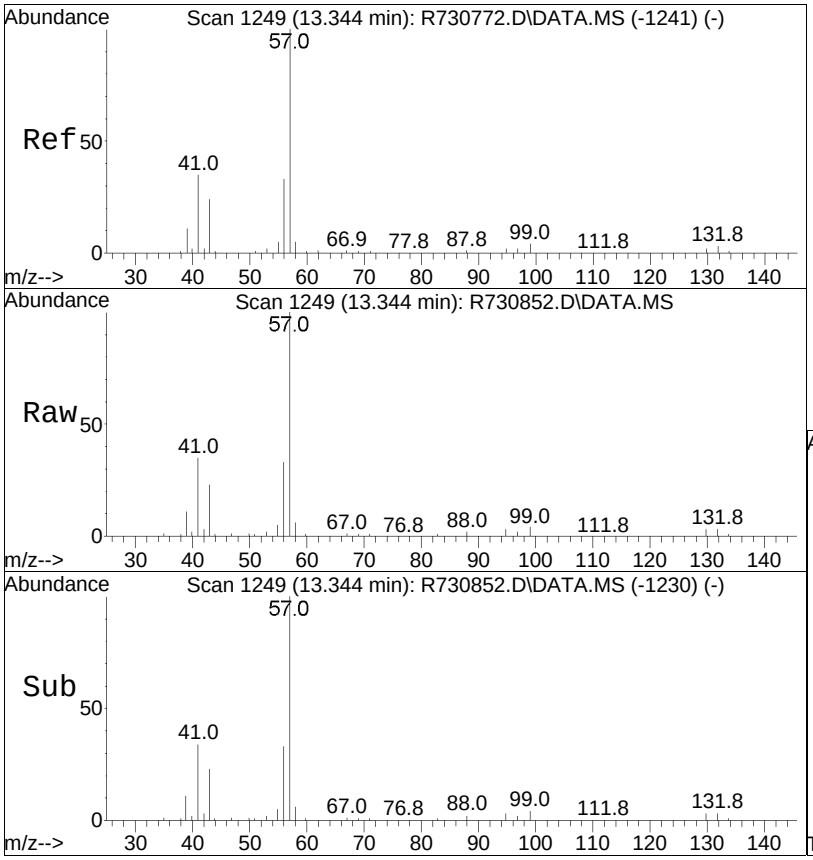


#59
trichloroethene
Concen: 8.91 ppbV
RT: 13.31 min Scan# 1246
Delta R.T. -0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:130 Resp: 136938

Ion	Ratio	Lower	Upper
130	100		
132	96.9	77.9	116.9
97	65.8	52.9	79.3

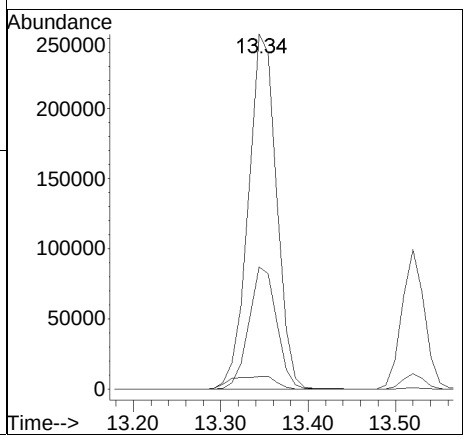


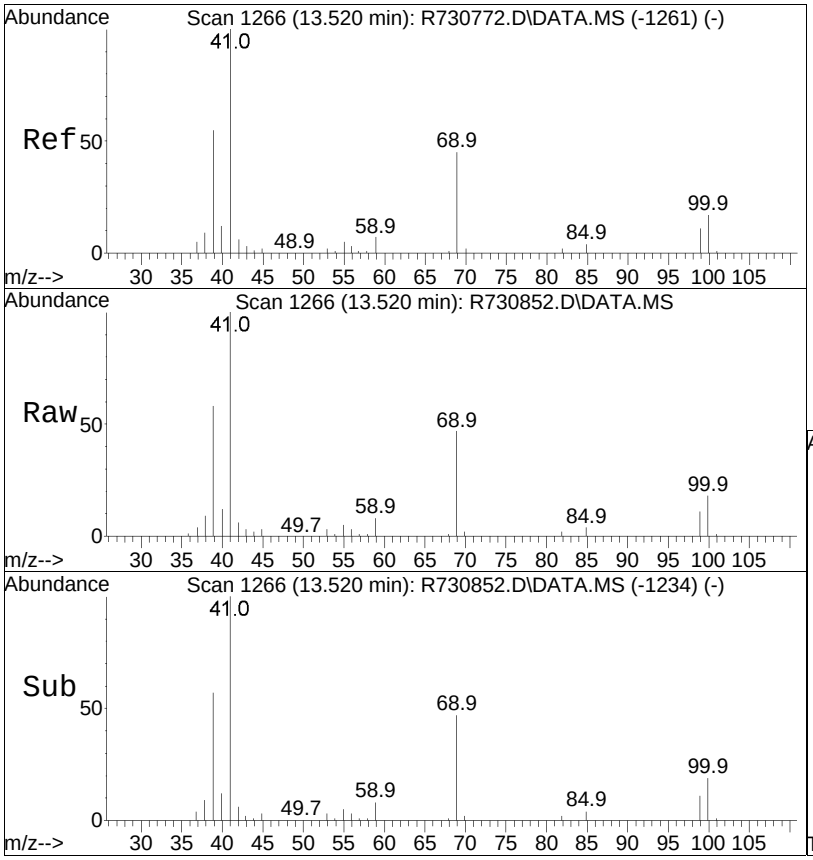


#60
2,2,4-trimethylpentane
Concen: 8.82 ppbV
RT: 13.34 min Scan# 1249
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 57 Resp: 570642

Ion	Ratio	Lower	Upper
57	100		
99	3.7	3.0	4.6
41	34.5	28.4	42.6

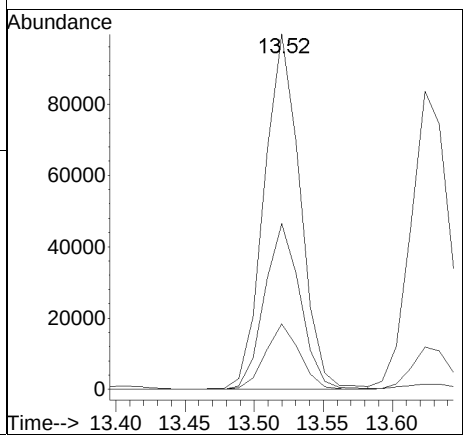


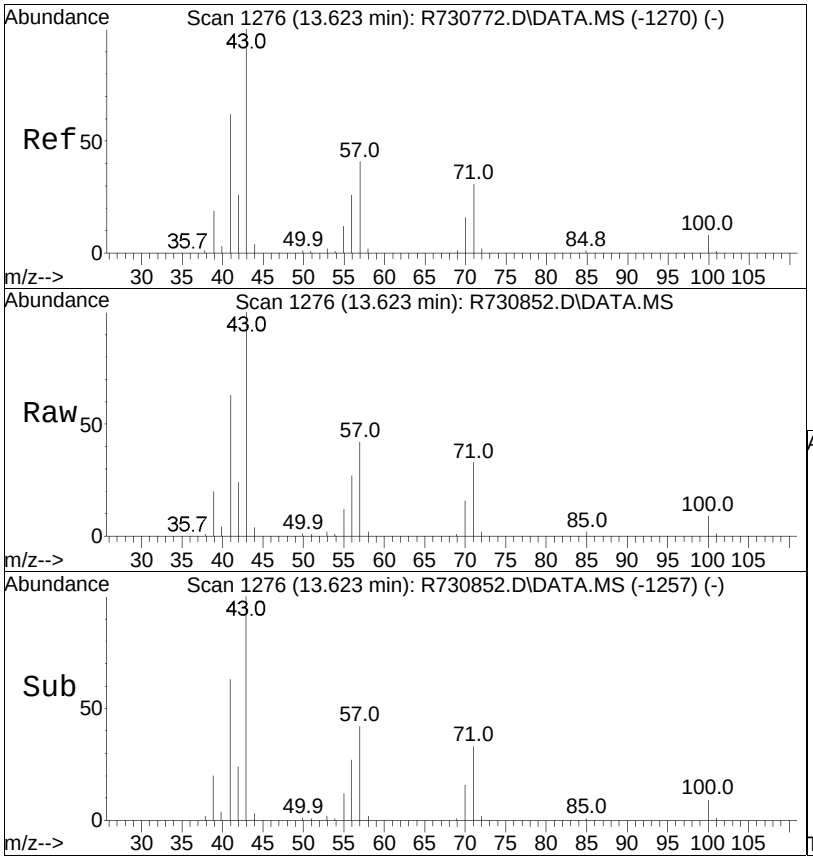


#61
methyl methacrylate
Concen: 8.95 ppbV
RT: 13.52 min Scan# 1266
Delta R.T. -0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 41 Resp: 180892

Ion	Ratio	Lower	Upper
41	100		
69	46.3	35.7	53.5
100	17.6	12.9	19.3

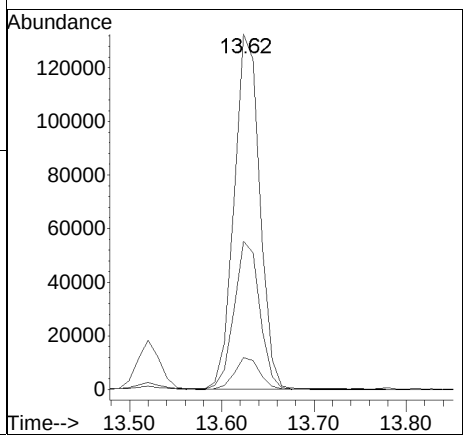


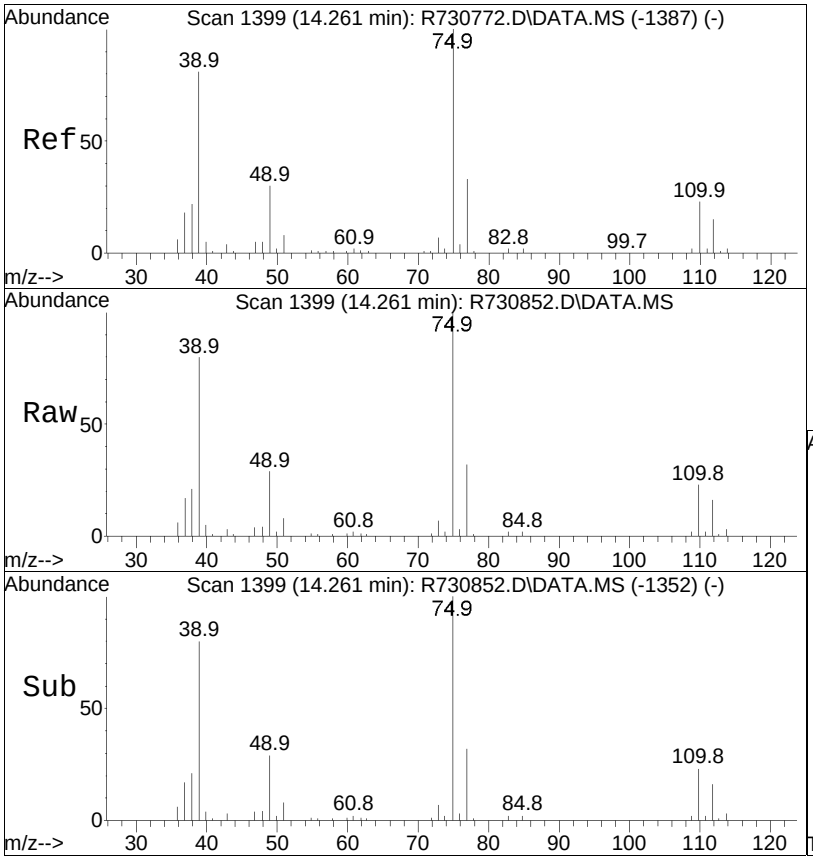


#62
heptane
Concen: 8.72 ppbV
RT: 13.62 min Scan# 1276
Delta R.T. -0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 255263

Ion	Ratio	Lower	Upper
43	100		
57	41.7	32.9	49.3
100	9.0	6.2	9.2

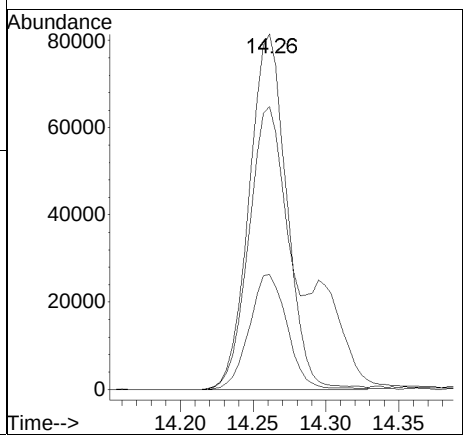


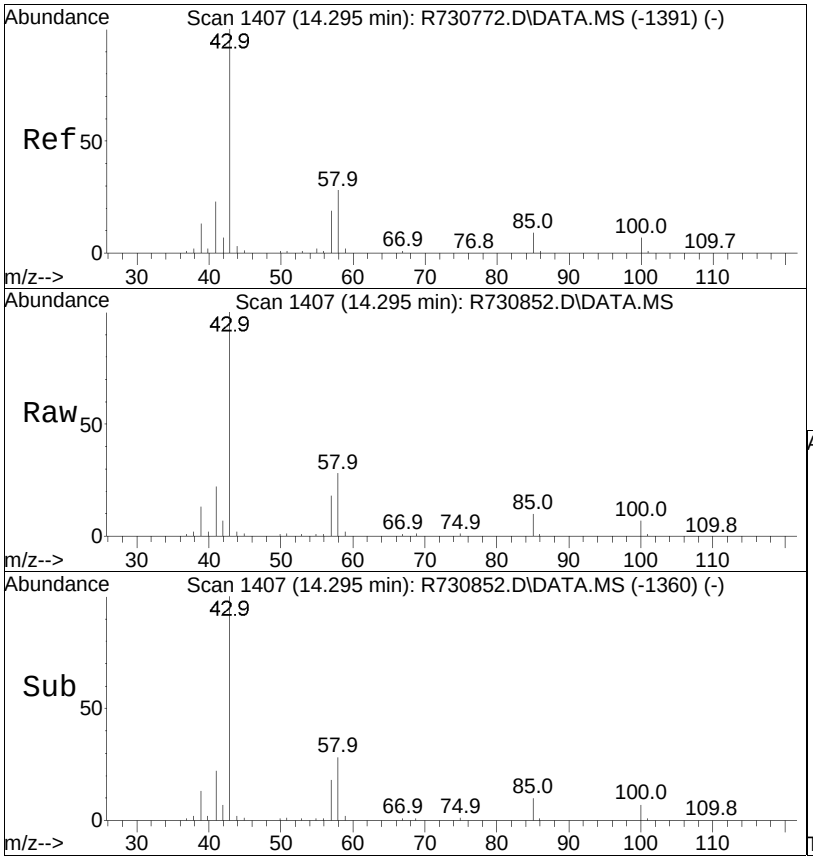


#63
cis-1,3-dichloropropene
Concen: 9.58 ppbV
RT: 14.26 min Scan# 1399
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 75 Resp: 145955

Ion	Ratio	Lower	Upper
75	100		
39	79.6	65.0	97.4
77	32.4	26.1	39.1

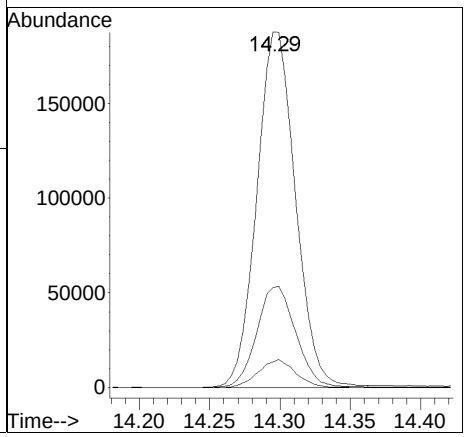


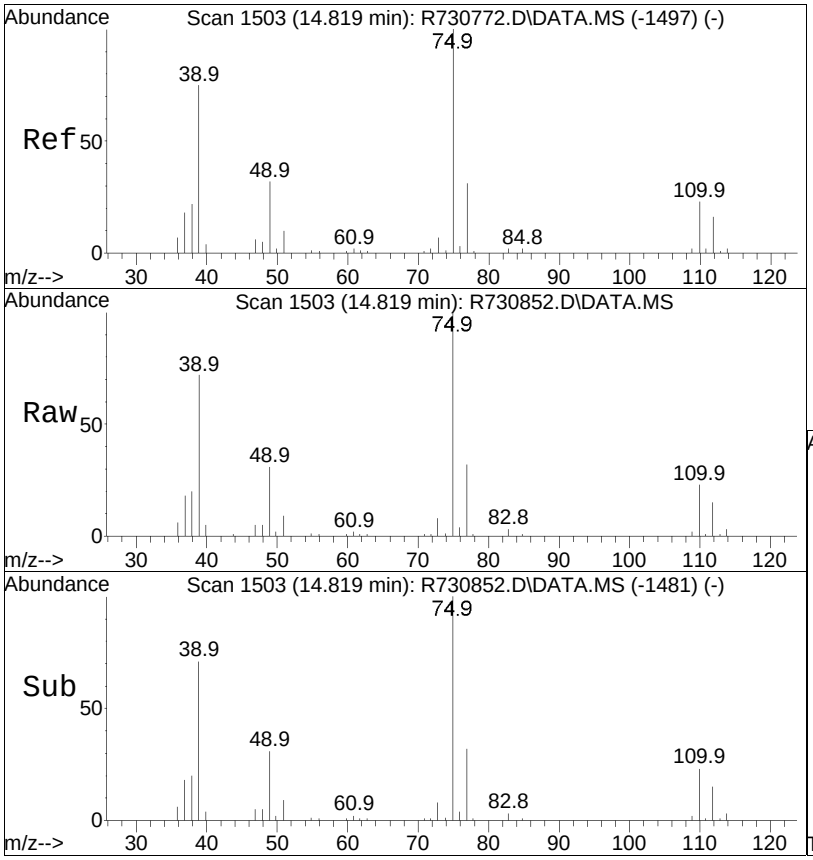


#64
4-methyl-2-pentanone
Concen: 8.86 ppbV
RT: 14.29 min Scan# 1407
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 359841

Ion	Ratio	Lower	Upper
43	100		
58	28.1	22.7	34.1
100	7.2	5.8	8.6

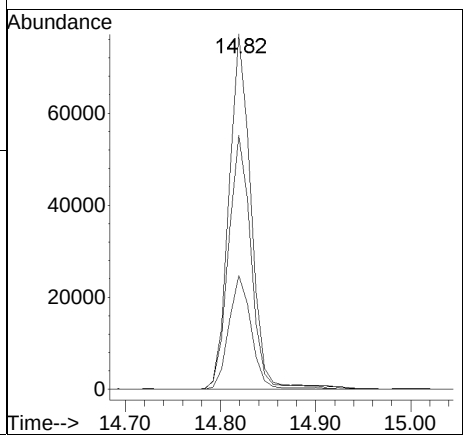


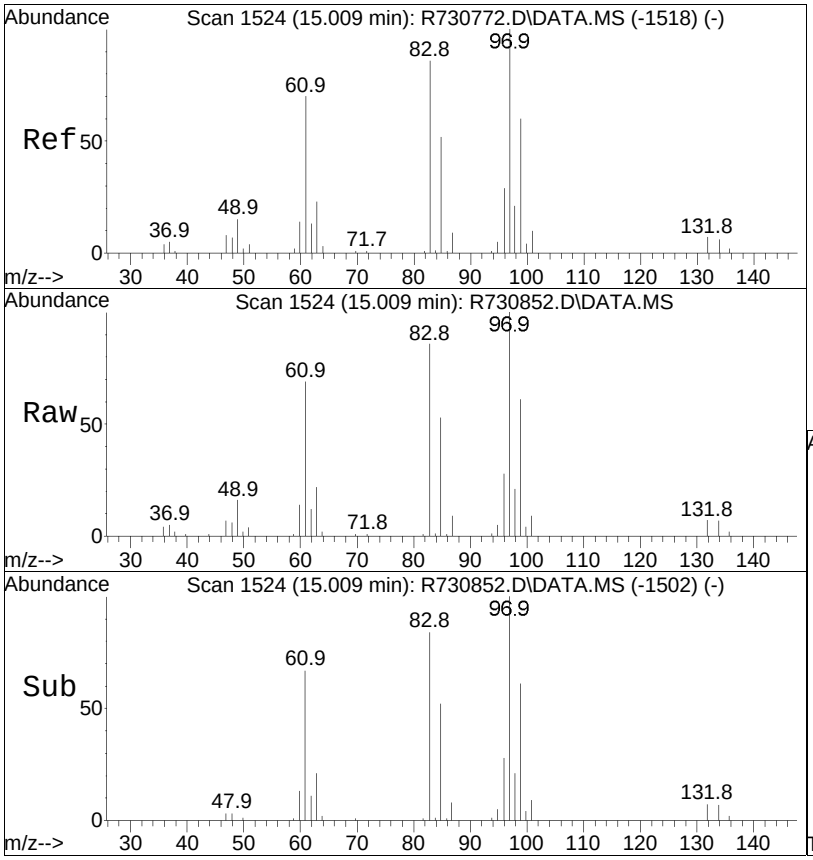


#65
trans-1,3-dichloropropene
Concen: 8.31 ppbV
RT: 14.82 min Scan# 1503
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 75 Resp: 125210

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.1	37.7
39	71.5	60.1	90.1

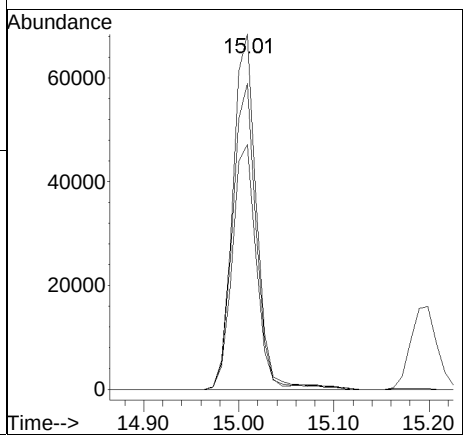


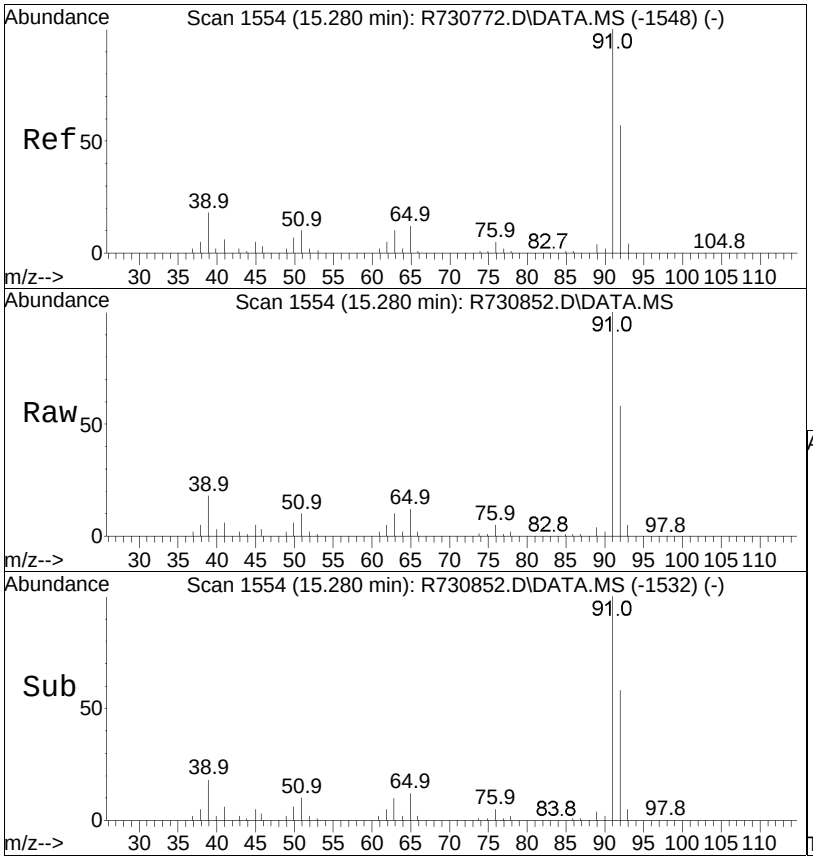


#66
1,1,2-trichloroethane
Concen: 9.17 ppbV
RT: 15.01 min Scan# 1524
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 97 Resp: 119091

Ion	Ratio	Lower	Upper
97	100		
83	86.0	68.6	102.8
61	68.9	56.2	84.2

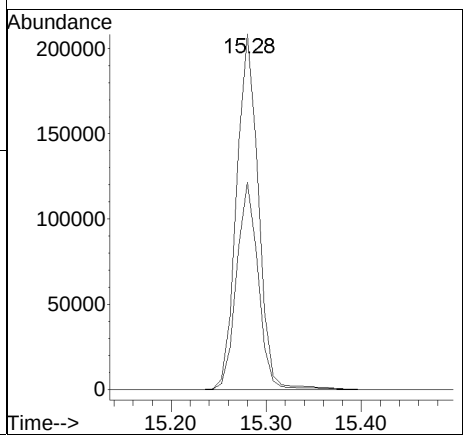


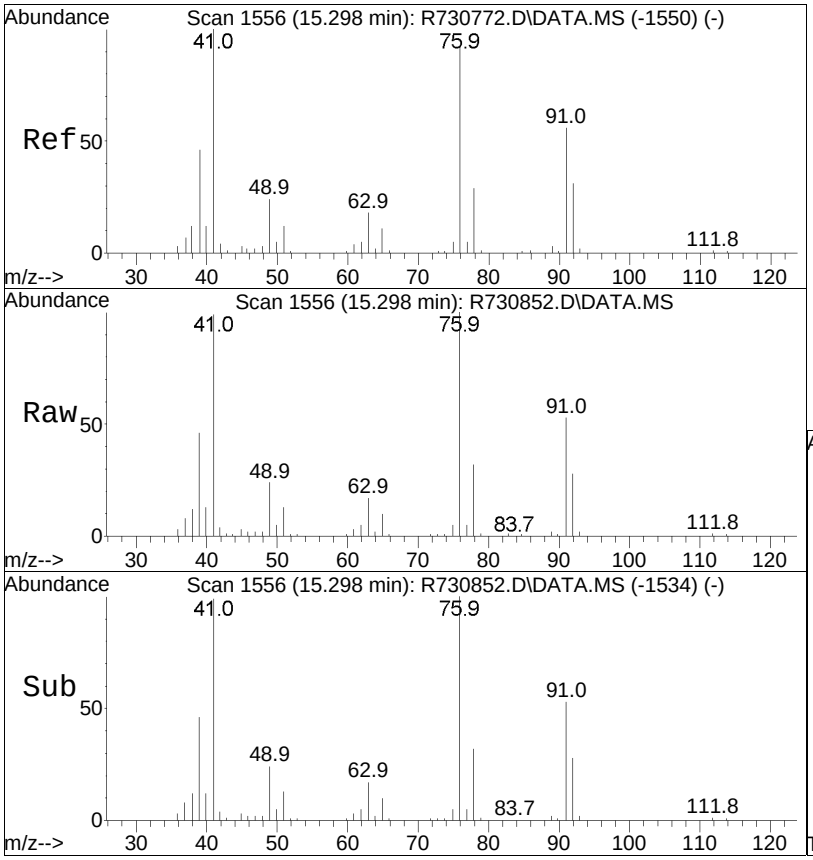


#68
toluene
Concen: 8.61 ppbV
RT: 15.28 min Scan# 1554
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 91 Resp: 332406

Ion	Ratio	Lower	Upper
91	100		
92	58.3	45.4	68.0

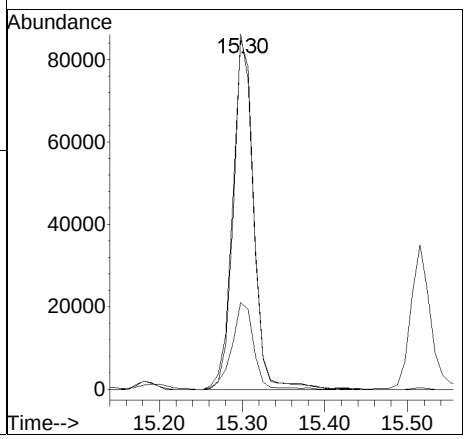


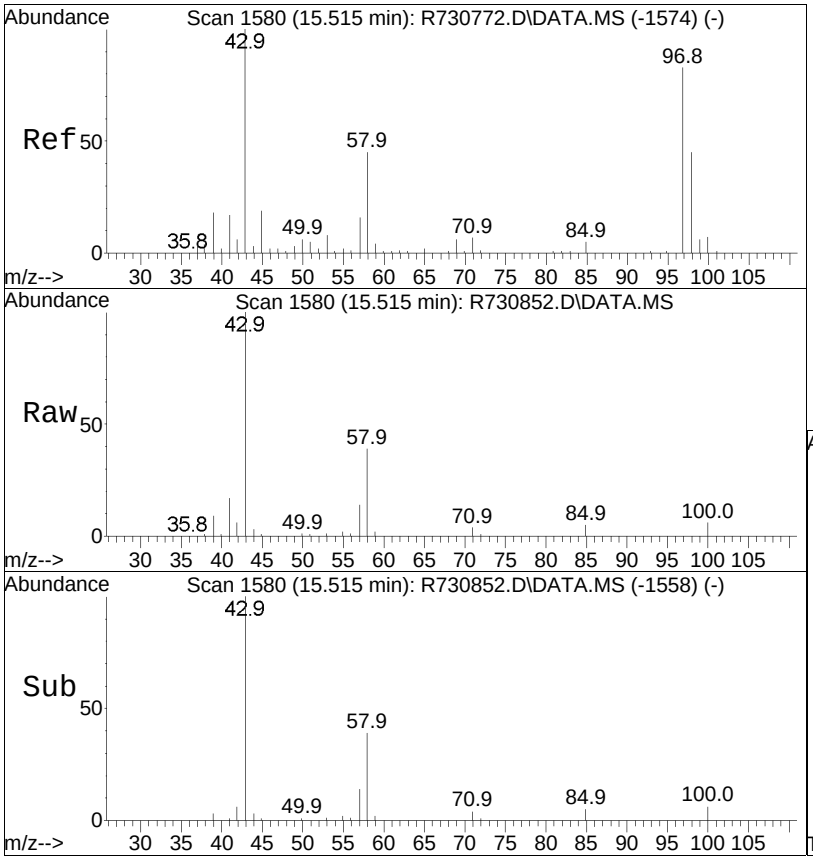


#71
1,3-dichloropropane
Concen: 8.19 ppbV
RT: 15.30 min Scan# 1556
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 76 Resp: 144207

Ion	Ratio	Lower	Upper
76	100		
41	98.6	86.2	129.4
49	24.5	20.9	31.3

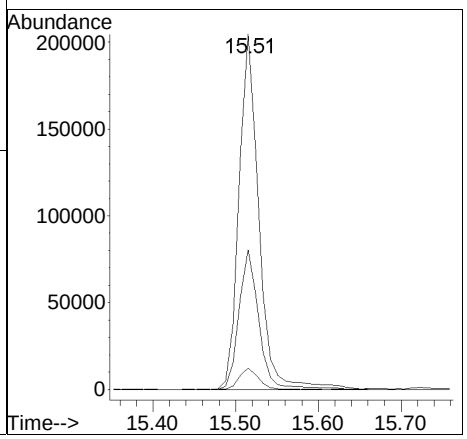


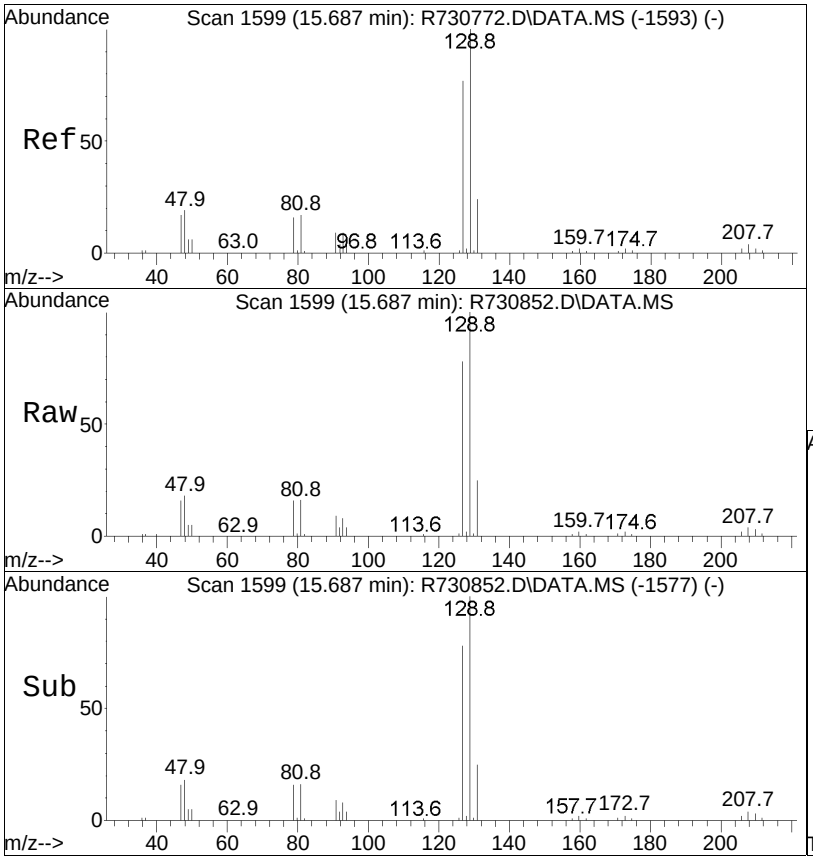


#72
2-hexanone
Concen: 9.06 ppbV
RT: 15.51 min Scan# 1580
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 343580

Ion	Ratio	Lower	Upper
43	100		
58	39.4	35.6	53.4
100	6.0	5.9	8.9

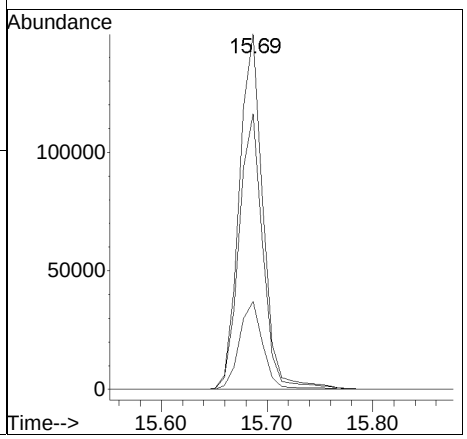


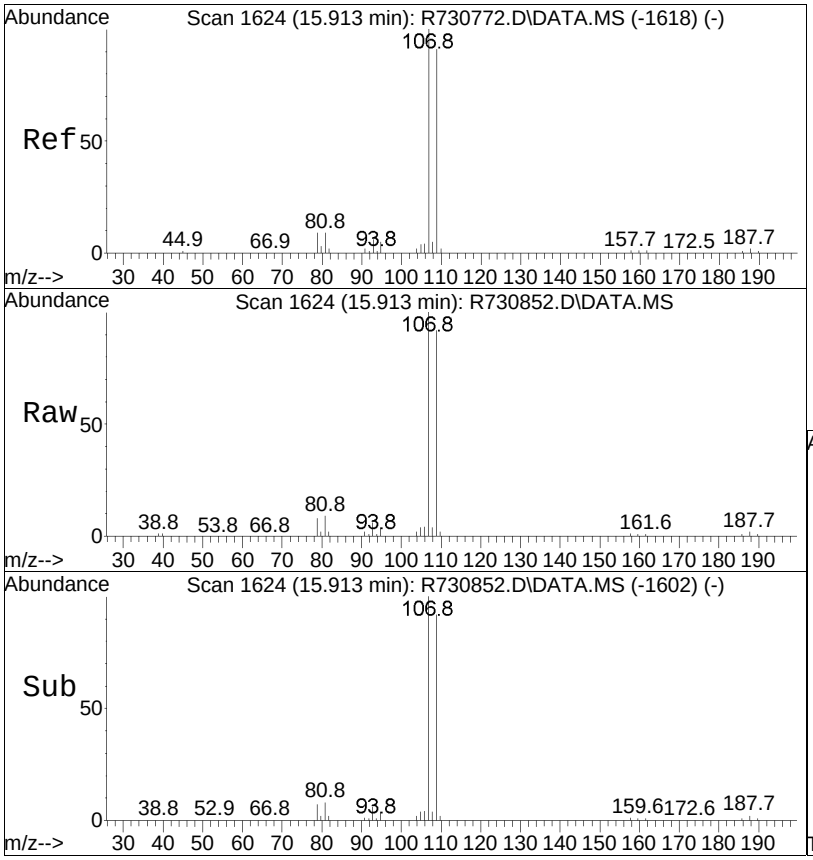


#74
dibromochloromethane
Concen: 8.98 ppbV
RT: 15.69 min Scan# 1599
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:129 Resp: 235819

Ion	Ratio	Lower	Upper
129	100		
127	77.6	61.8	92.8
131	24.8	19.0	28.4

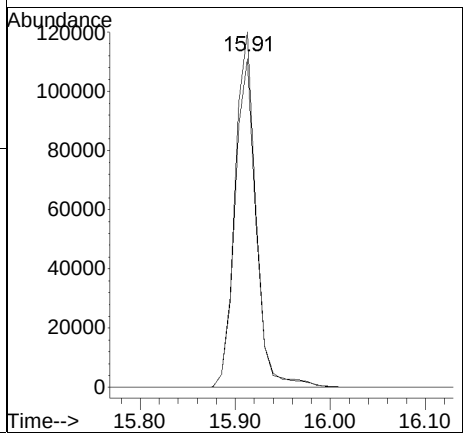


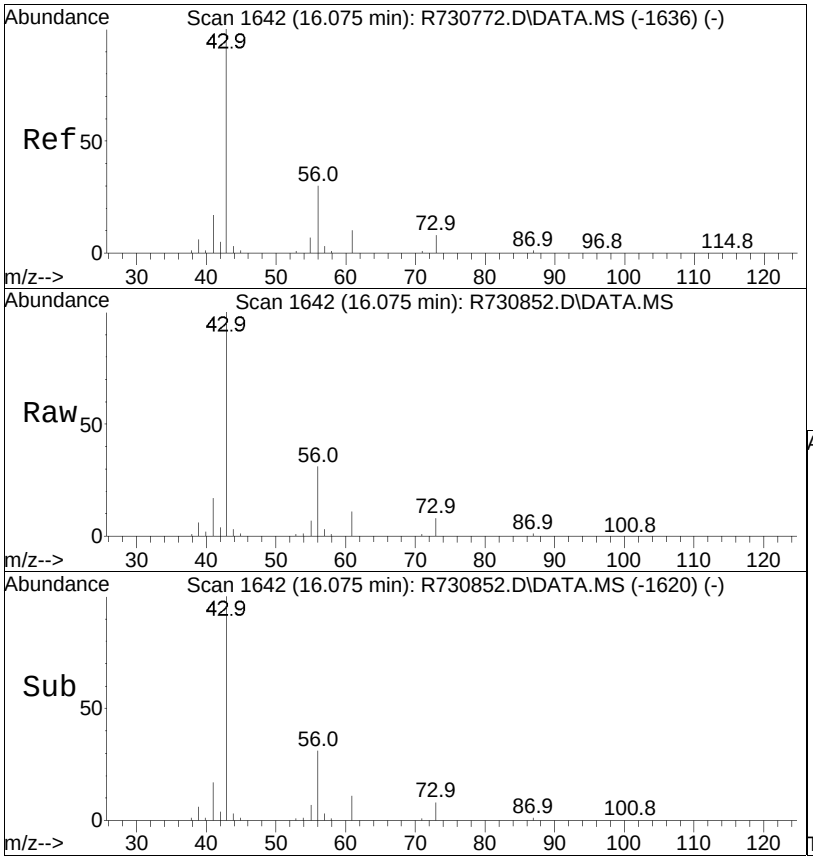


#75
1,2-dibromoethane
Concen: 8.74 ppbV
RT: 15.91 min Scan# 1624
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:107 Resp: 184980

Ion	Ratio	Lower	Upper
107	100		
109	92.4	72.6	108.8

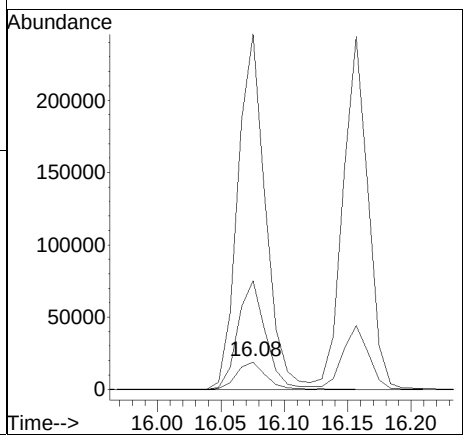


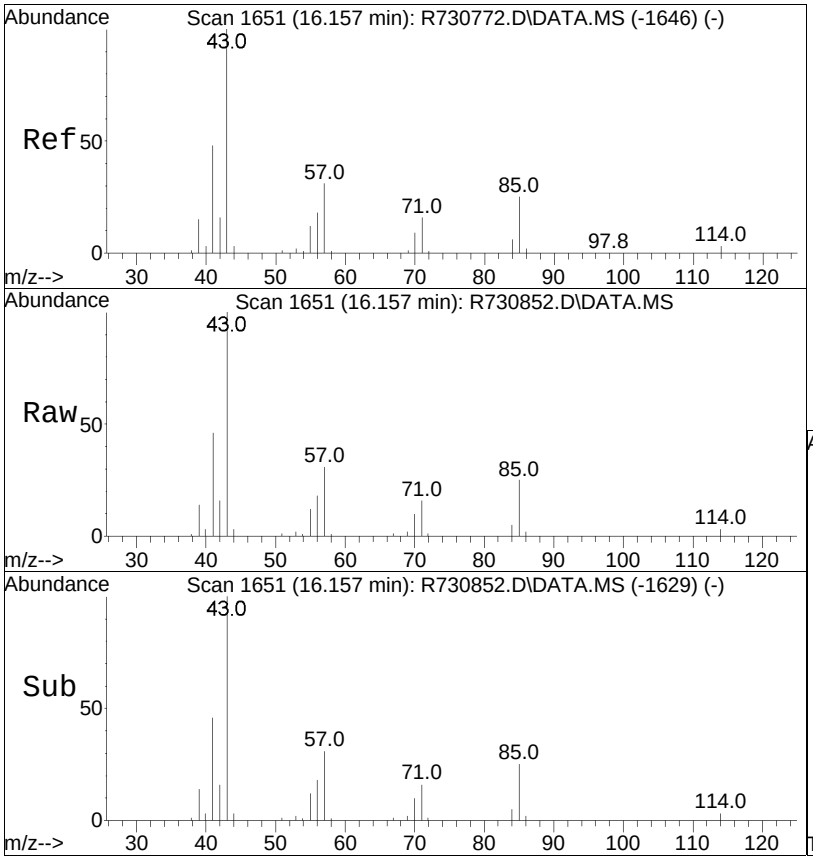


#76
butyl acetate
Concen: 8.83 ppbV
RT: 16.08 min Scan# 1642
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 73 Resp: 30697

Ion	Ratio	Lower	Upper
73	100		
56	397.5	308.0	462.0
43	1299.8	1023.6	1535.4

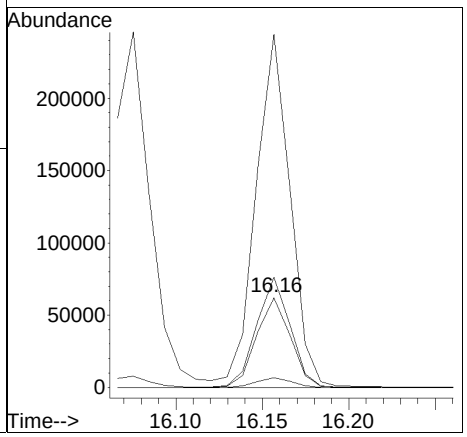


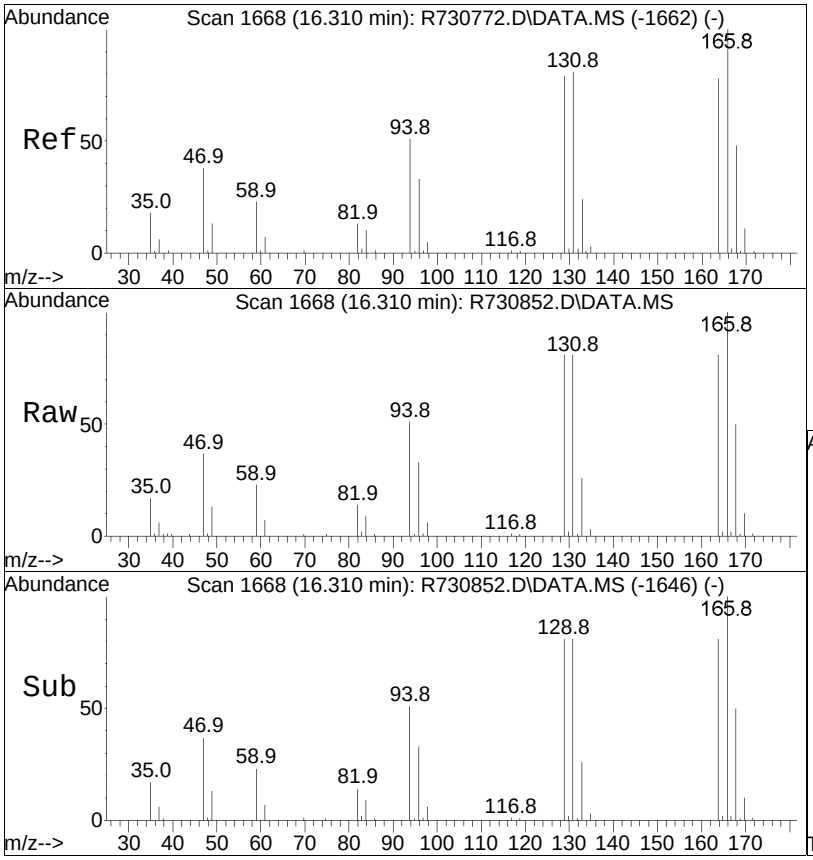


#77
octane
Concen: 8.41 ppbV
RT: 16.16 min Scan# 1651
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 85 Resp: 84951

Ion	Ratio	Lower	Upper
85	100		
57	123.1	97.1	145.7
114	10.9	9.7	14.5
43	394.0	321.5	482.3

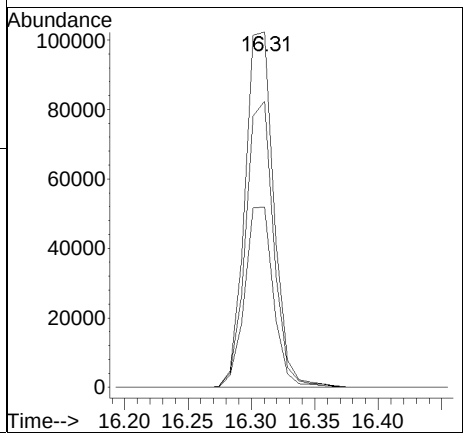


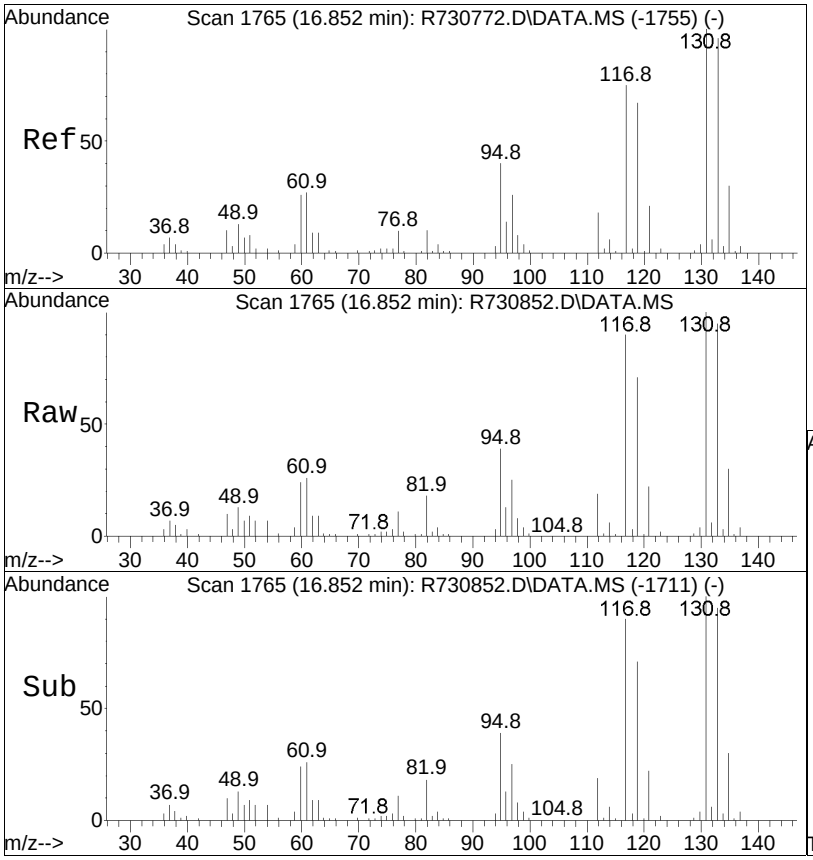


#78
tetrachloroethene
Concen: 8.77 ppbV
RT: 16.31 min Scan# 1668
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:166 Resp: 163125

Ion	Ratio	Lower	Upper
166	100		
131	80.5	64.5	96.7
94	50.8	40.6	61.0

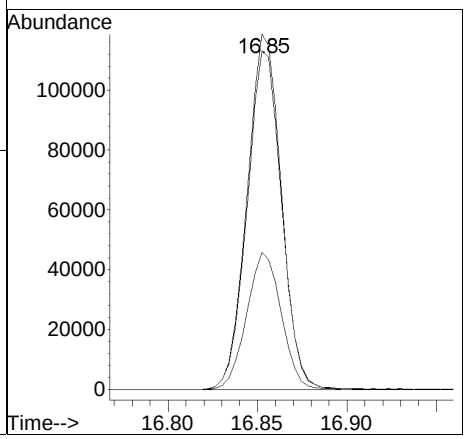


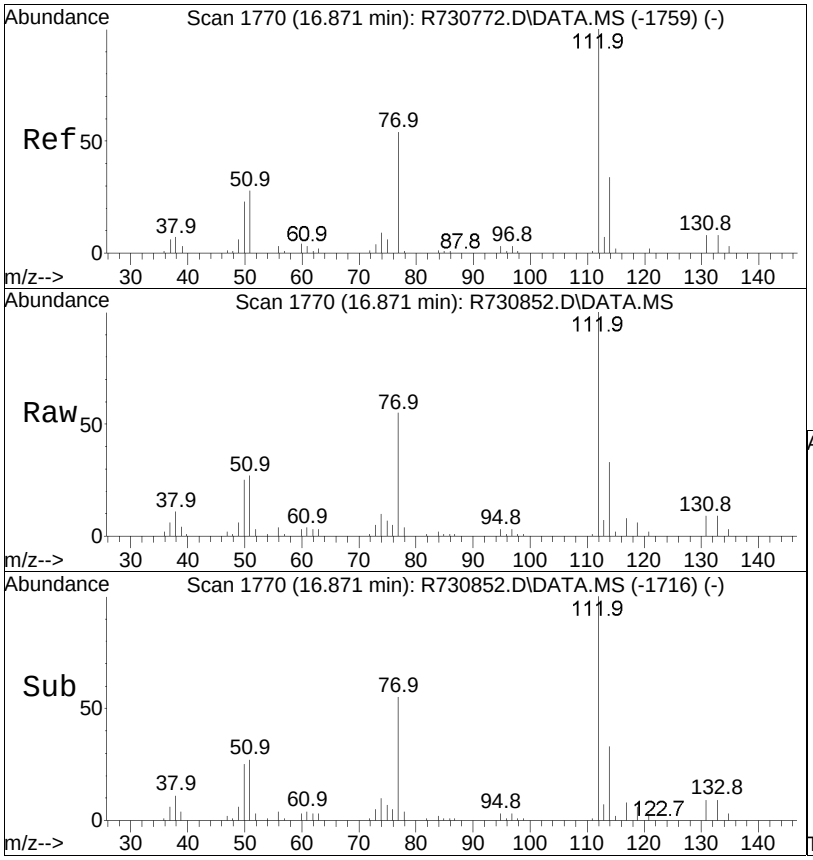


#79
1,1,1,2-tetrachloroethane
Concen: 8.44 ppbV
RT: 16.85 min Scan# 1765
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:131 Resp: 158121

Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.5	114.7
95	38.6	32.0	48.0

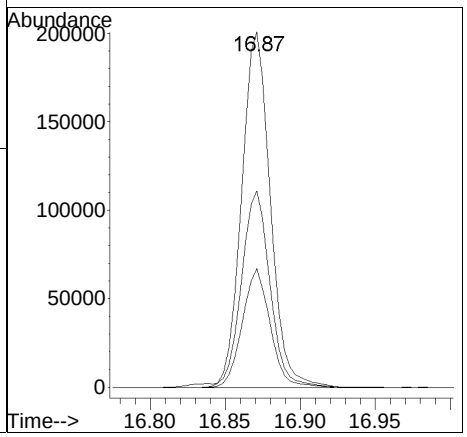


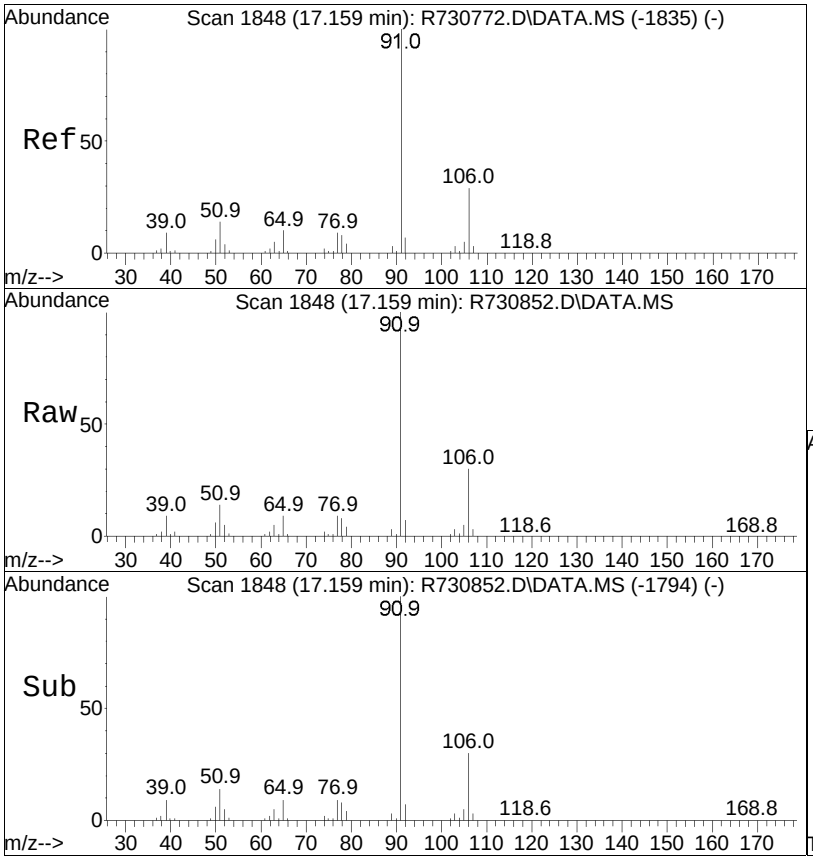


#80
chlorobenzene
Concen: 8.70 ppbV
RT: 16.87 min Scan# 1770
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:112 Resp: 266858

Ion	Ratio	Lower	Upper
112	100		
114	33.4	26.9	40.3
77	55.4	44.2	66.2

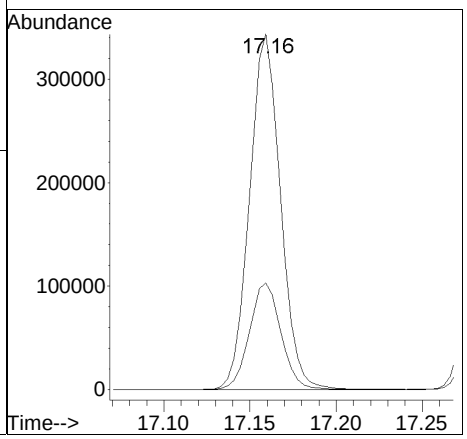


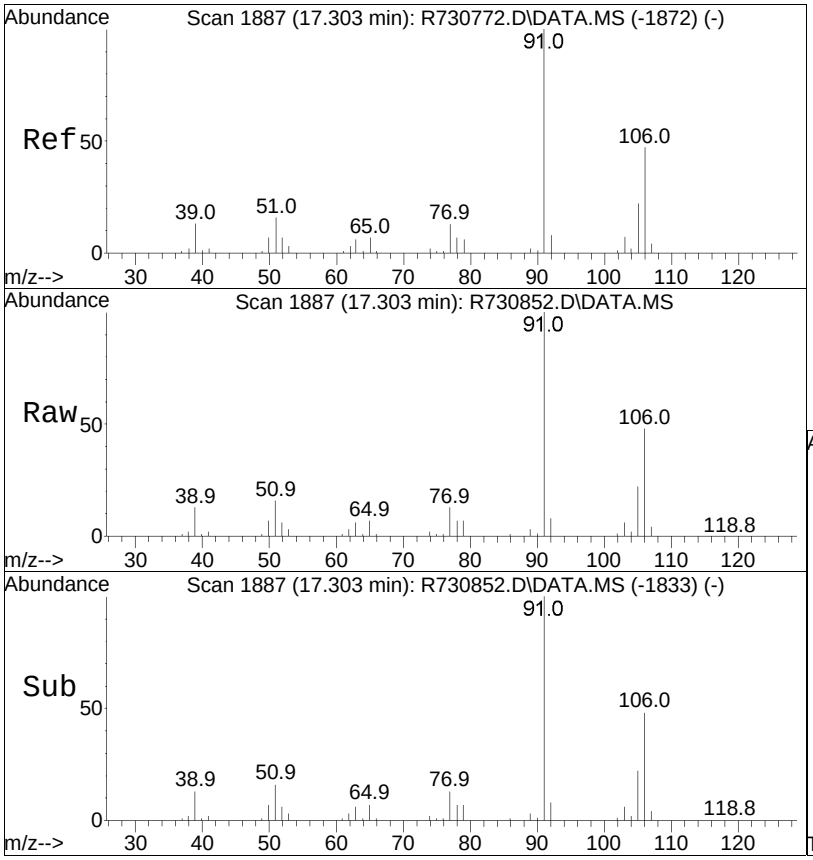


#81
ethylbenzene
Concen: 8.89 ppbV
RT: 17.16 min Scan# 1848
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 91 Resp: 428782

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.4	35.0

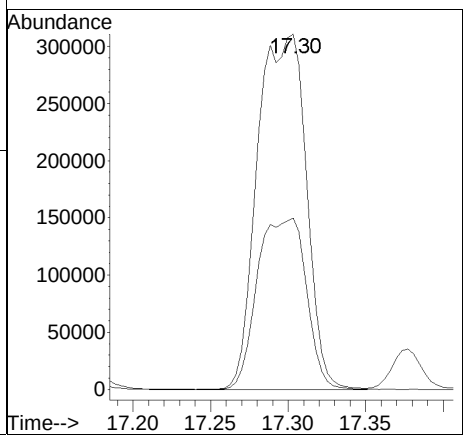


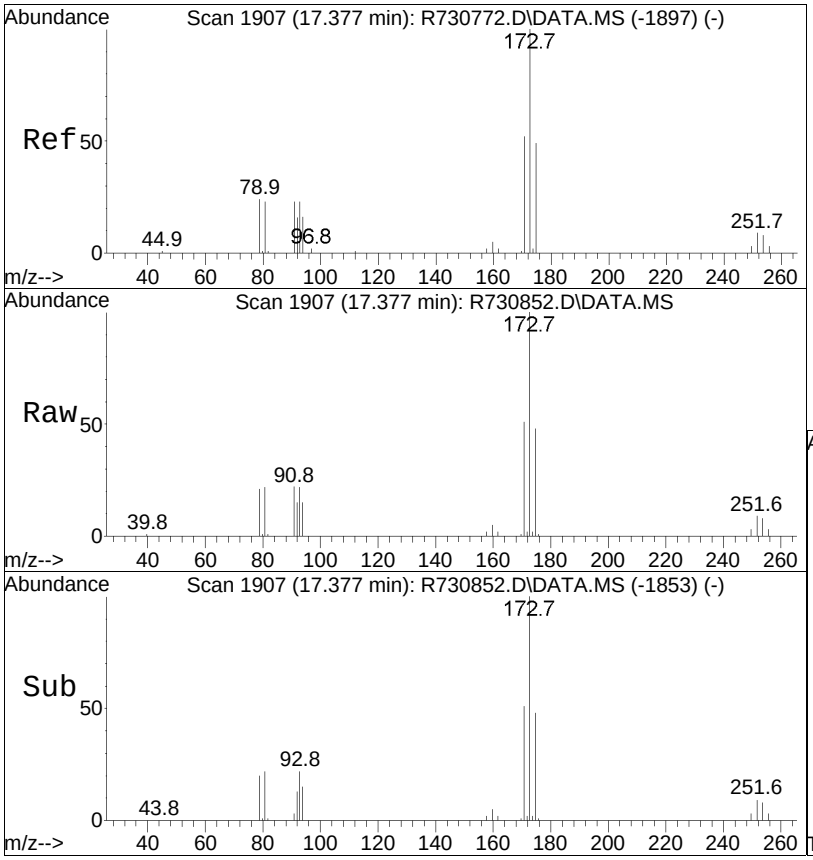


#83
m+p-xylene
Concen: 17.86 ppbV
RT: 17.30 min Scan# 1887
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 91 Resp: 676071

Ion	Ratio	Lower	Upper
91	100		
106	48.2	37.4	56.2

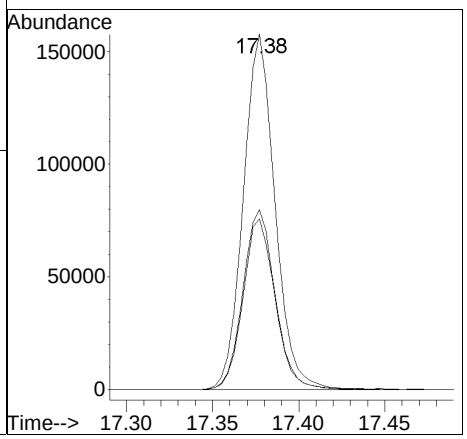


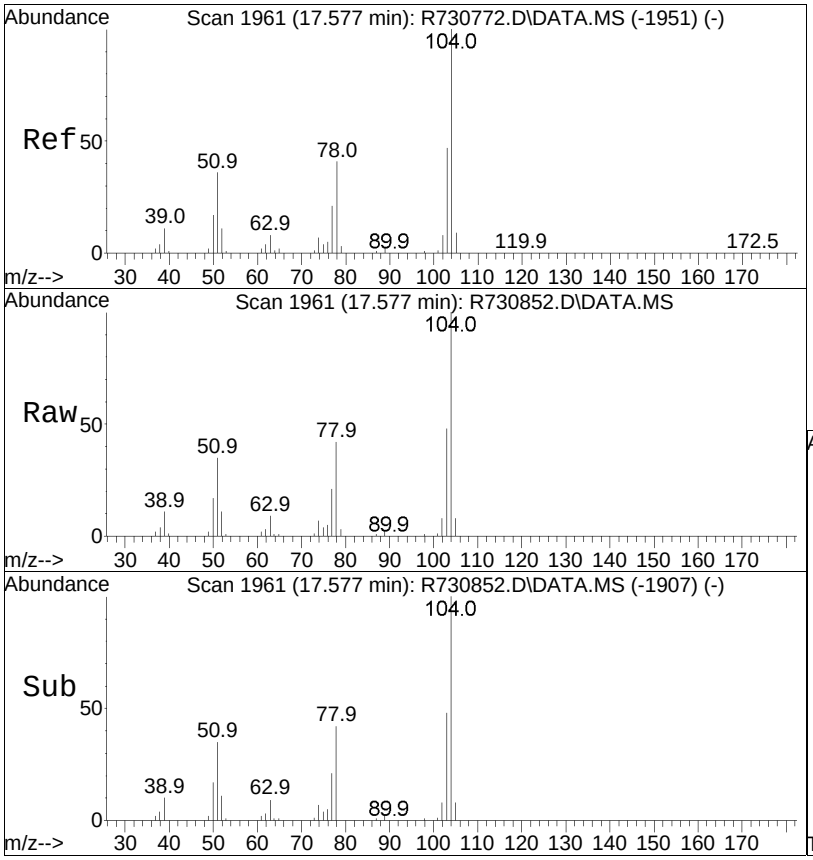


#84
bromoform
Concen: 9.05 ppbV
RT: 17.38 min Scan# 1907
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:173 Resp: 201892

Ion	Ratio	Lower	Upper
173	100		
175	48.0	39.5	59.3
171	50.5	41.3	61.9

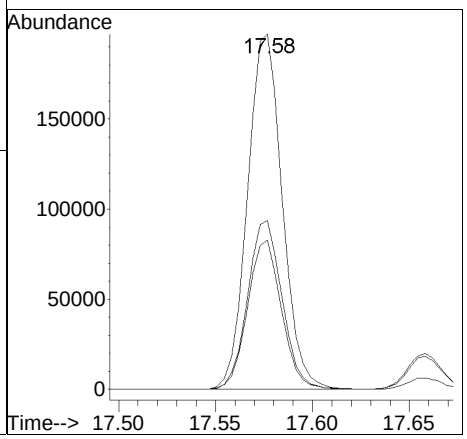


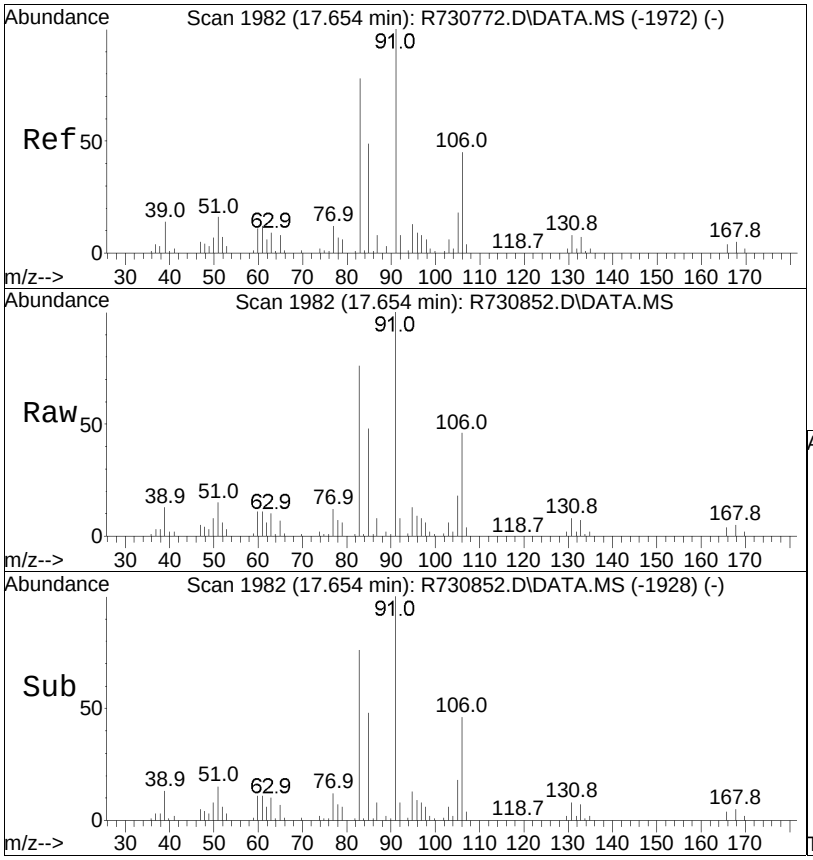


#85
styrene
Concen: 9.17 ppbV
RT: 17.58 min Scan# 1961
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:104 Resp: 245582

Ion	Ratio	Lower	Upper
104	100		
103	47.5	37.6	56.4
78	42.1	33.0	49.4

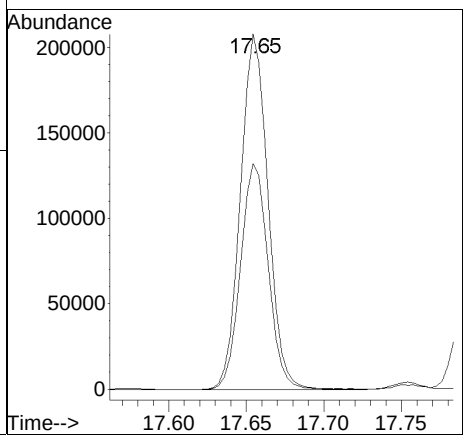


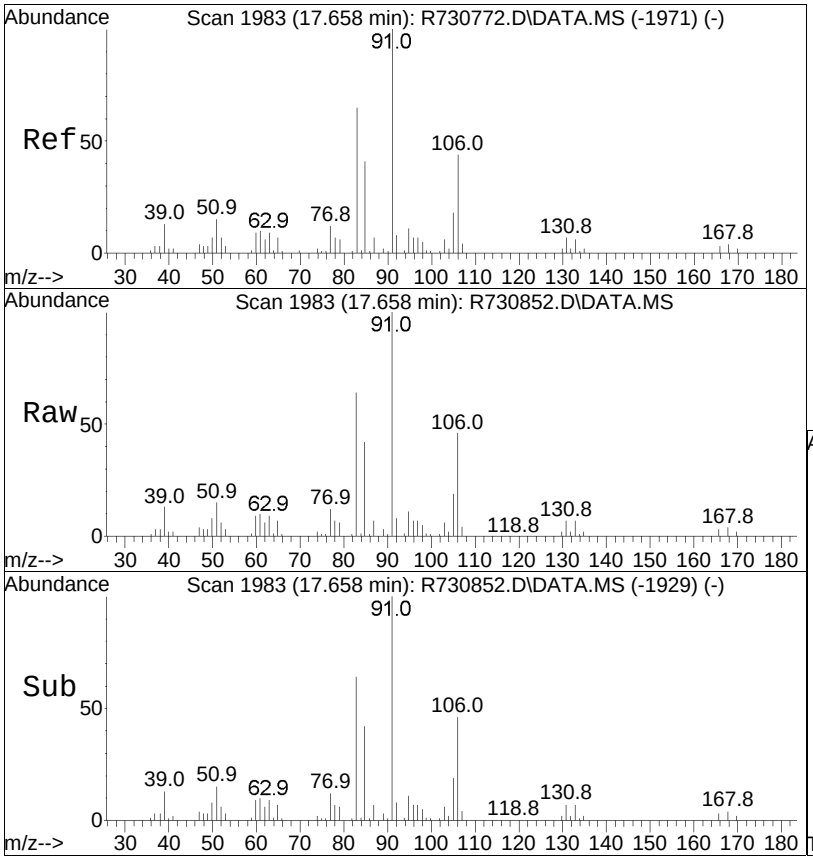


#86
1,1,2,2-tetrachloroethane
Concen: 9.00 ppbV
RT: 17.65 min Scan# 1982
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 83 Resp: 257187

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.1	75.1

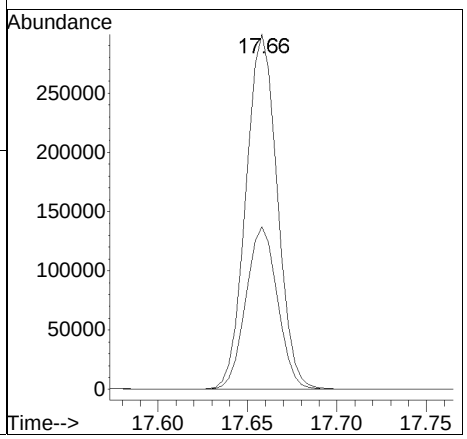


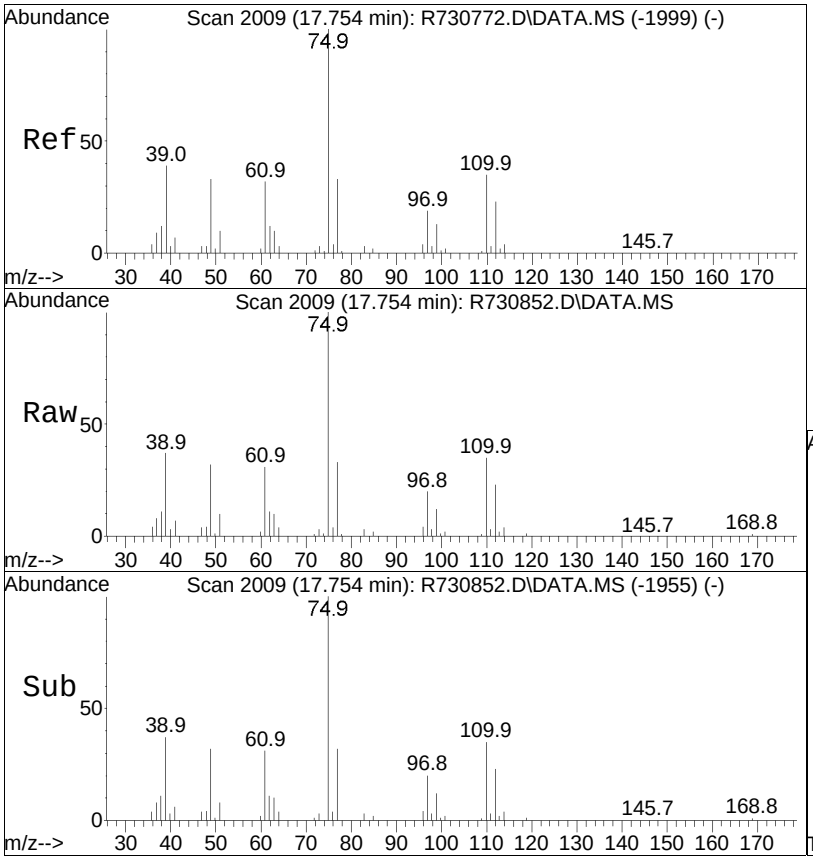


#87
o-xylene
Concen: 9.30 ppbV
RT: 17.66 min Scan# 1983
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 91 Resp: 365218

Ion	Ratio	Lower	Upper
91	100		
106	45.8	35.4	53.2

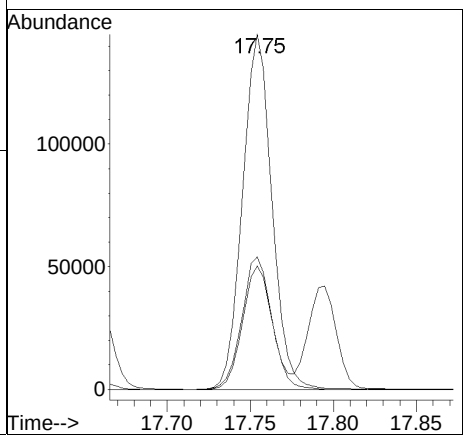


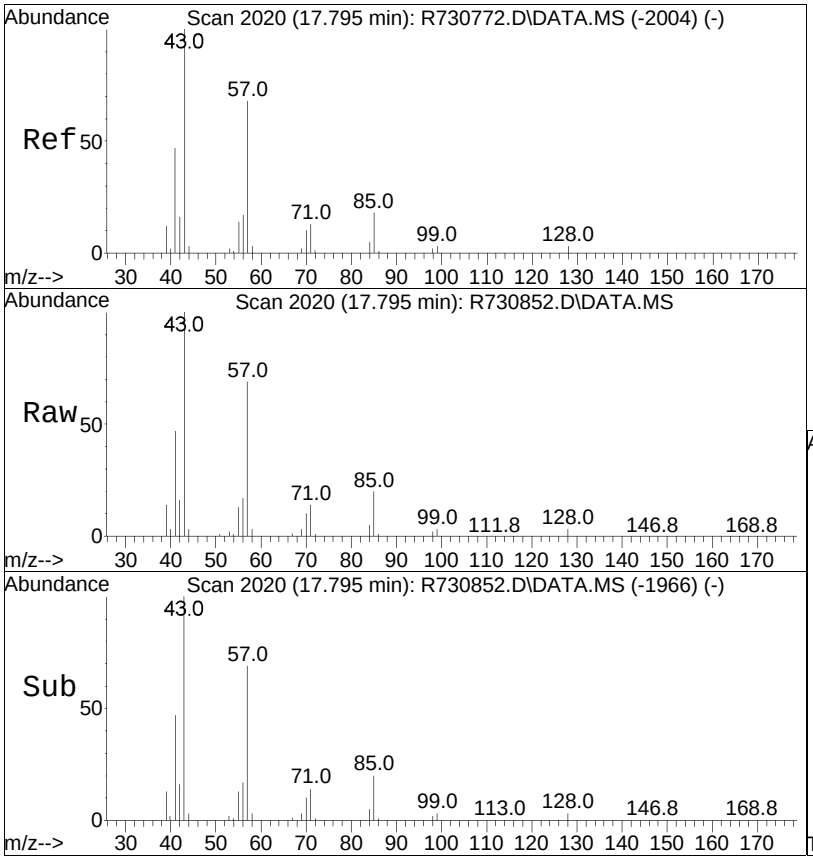


#88
1,2,3-trichloropropane
Concen: 8.29 ppbV
RT: 17.75 min Scan# 2009
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 75 Resp: 178306

Ion	Ratio	Lower	Upper
75	100		
110	34.7	28.4	42.6
39	37.3	31.0	46.4

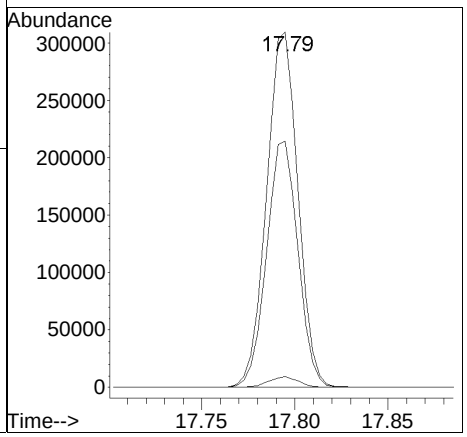


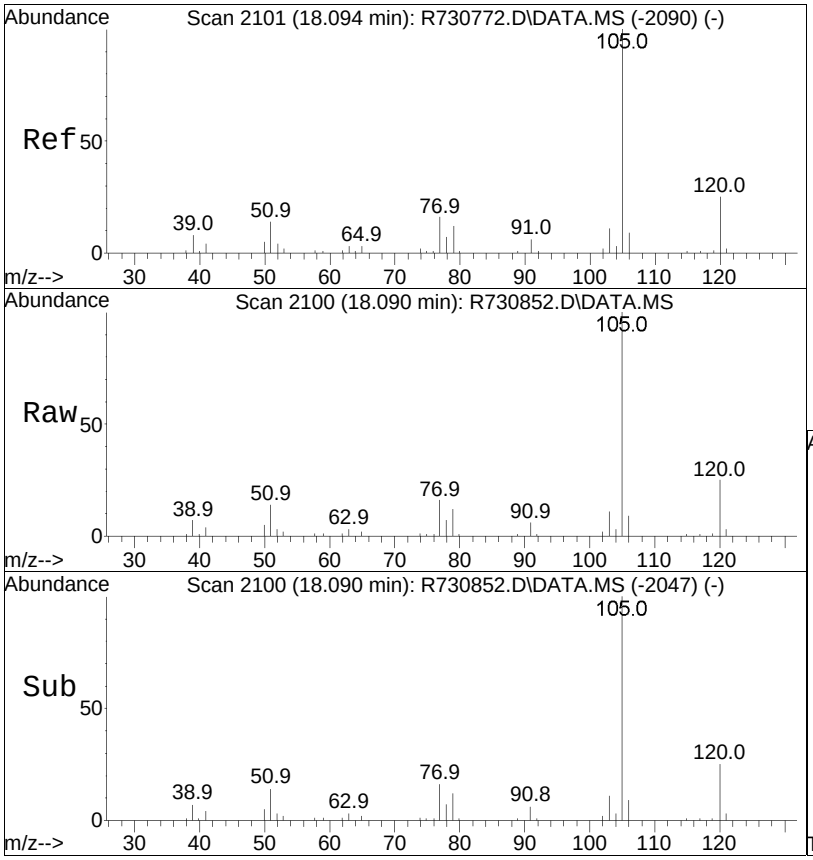


#89
nonane
Concen: 8.39 ppbV
RT: 17.79 min Scan# 2020
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 43 Resp: 363082

Ion	Ratio	Lower	Upper
43	100		
57	69.3	54.2	81.4
128	3.0	2.2	3.2

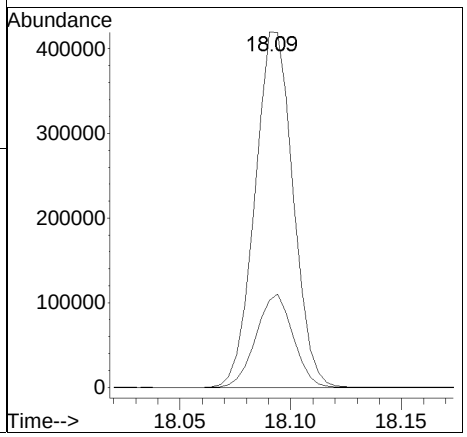


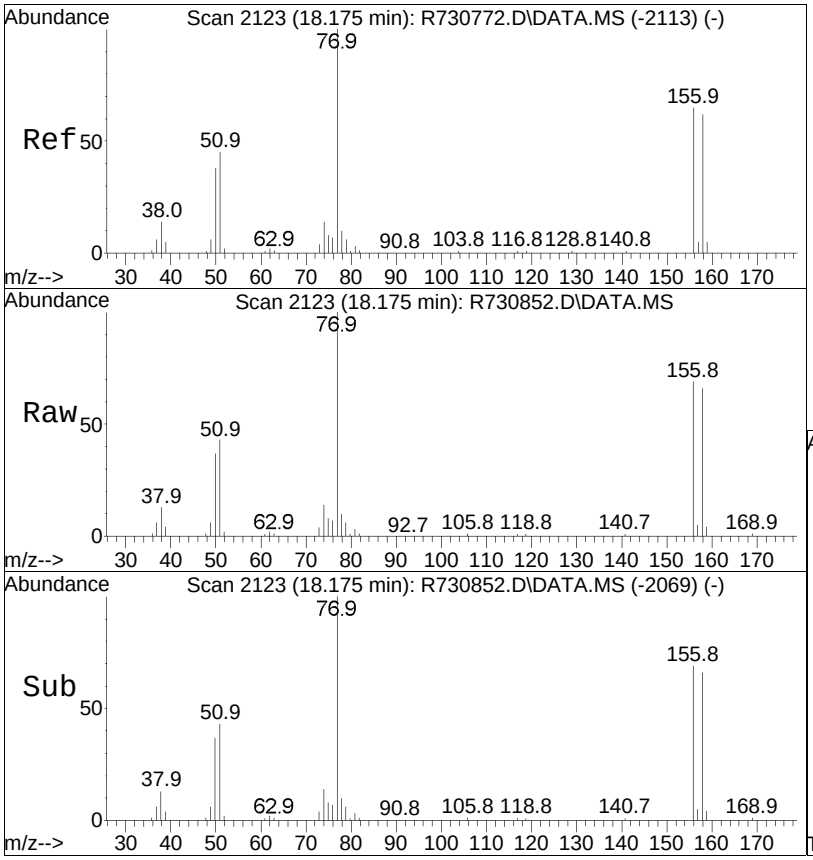


#91
isopropylbenzene
Concen: 8.90 ppbV
RT: 18.09 min Scan# 2100
Delta R.T. -0.004 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:105 Resp: 502247

Ion	Ratio	Lower	Upper
105	100		
120	24.5	19.9	29.9

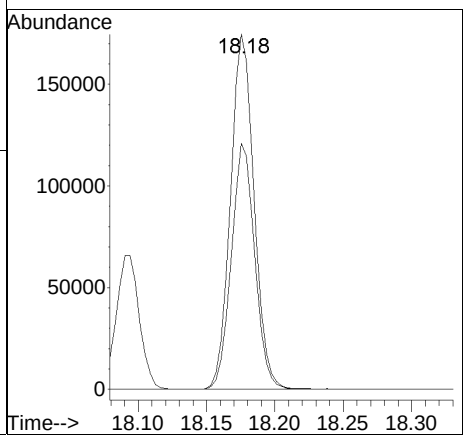


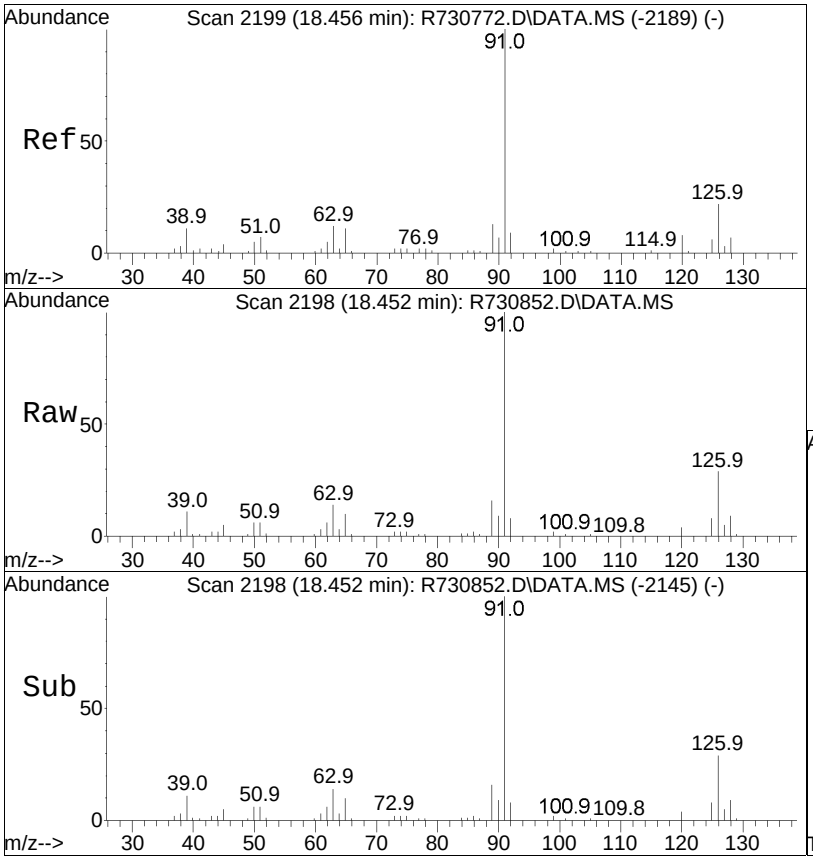


#92
bromobenzene
Concen: 8.25 ppbV
RT: 18.18 min Scan# 2123
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 77 Resp: 209561

Ion	Ratio	Lower	Upper
77	100		
156	69.3	52.2	78.2

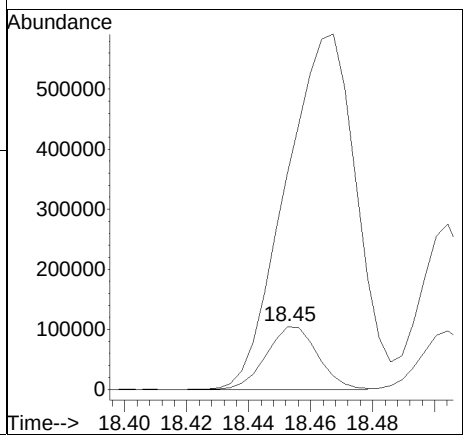


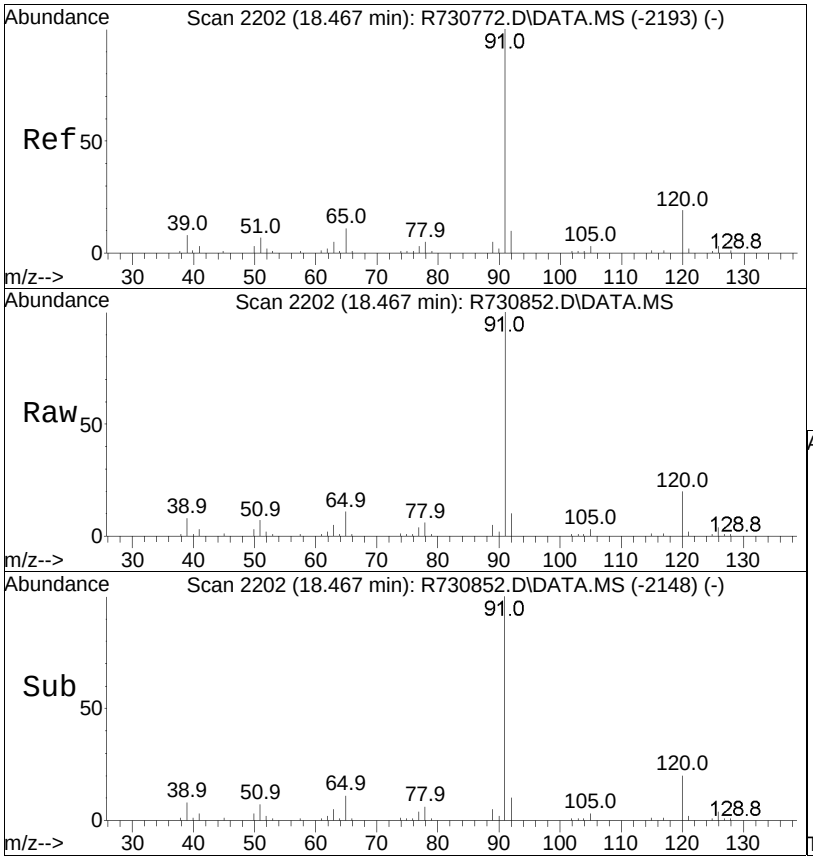


#93
2-chlorotoluene
Concen: 8.75 ppbV
RT: 18.45 min Scan# 2198
Delta R.T. -0.004 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:126 Resp: 120589

Ion	Ratio	Lower	Upper
126	100		
91	345.9	357.8	536.8#

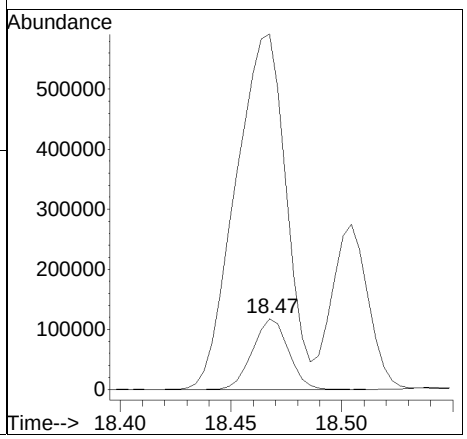


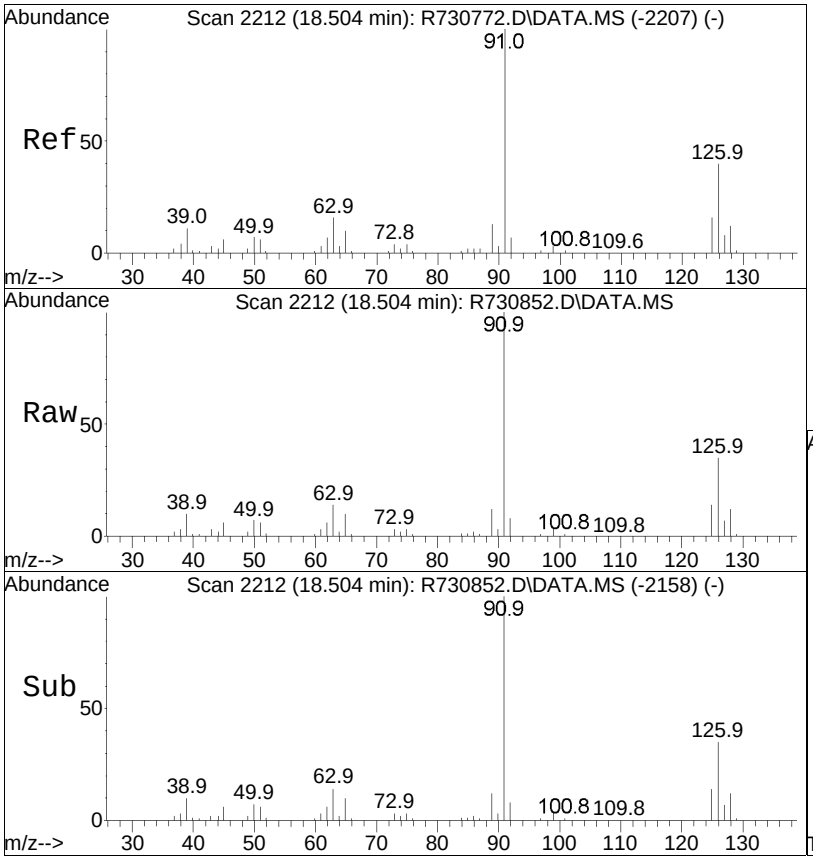


#94
n-propylbenzene
Concen: 8.90 ppbV
RT: 18.47 min Scan# 2202
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:120 Resp: 132271

Ion	Ratio	Lower	Upper
120	100		
91	504.0	427.9	641.9

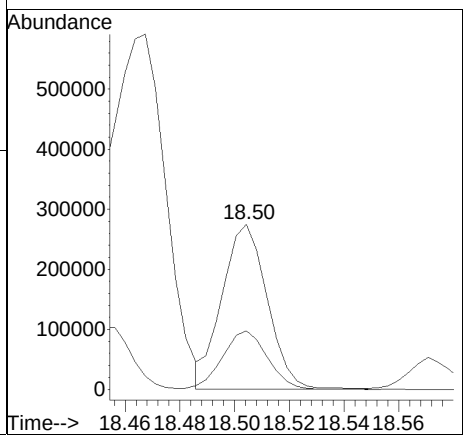


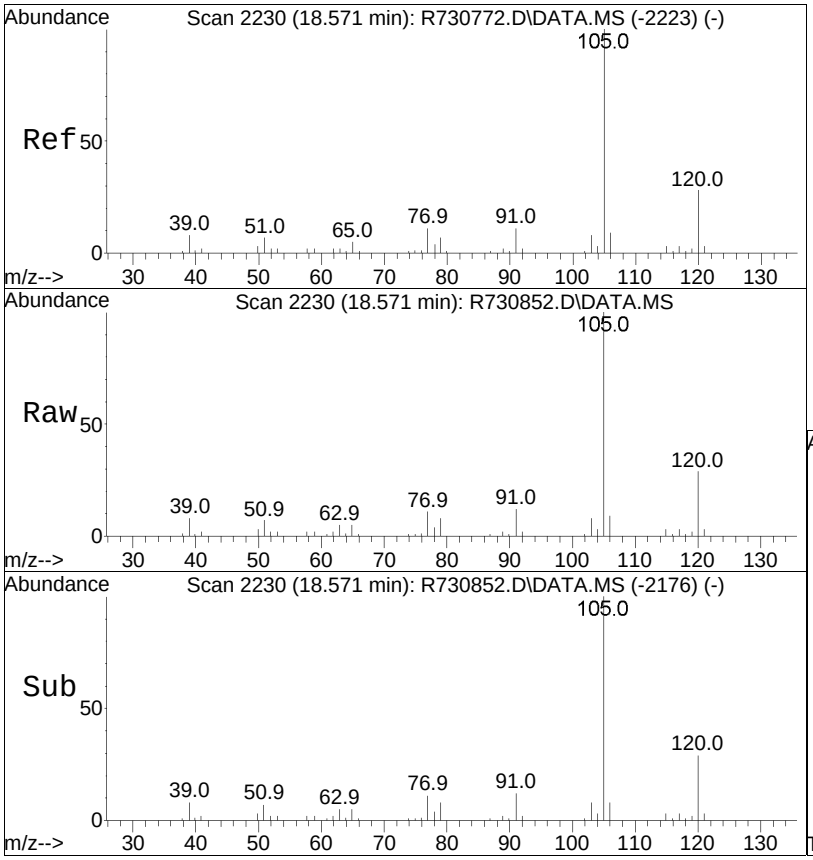


#95
4-chlorotoluene
Concen: 8.41 ppbV
RT: 18.50 min Scan# 2212
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 91 Resp: 316475

Ion	Ratio	Lower	Upper
91	100		
126	35.5	27.8	41.6

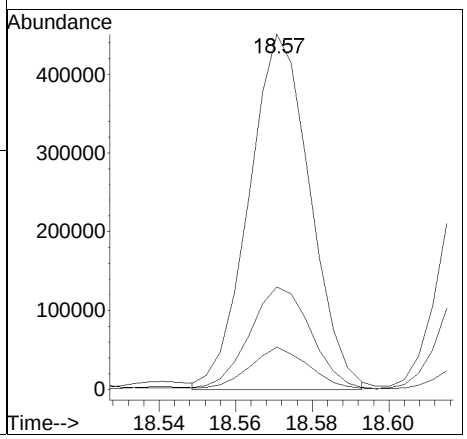


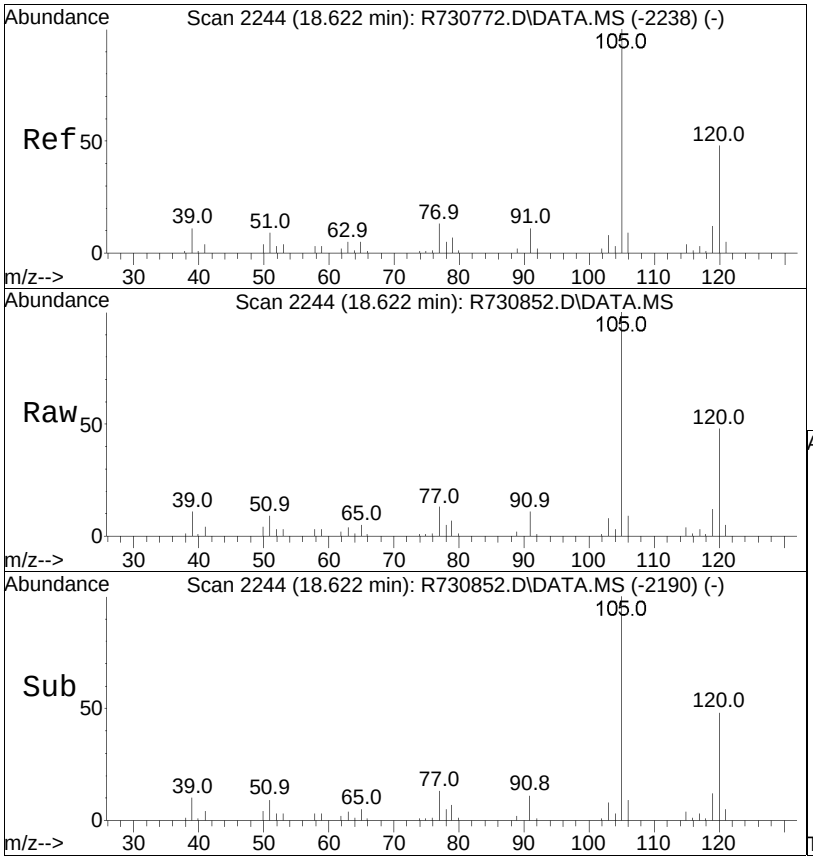


#96
4-ethyl toluene
Concen: 8.71 ppbV m
RT: 18.57 min Scan# 2230
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:105 Resp: 498376

Ion	Ratio	Lower	Upper
105	100		
120	28.9	22.7	34.1
91	11.9	9.2	13.8

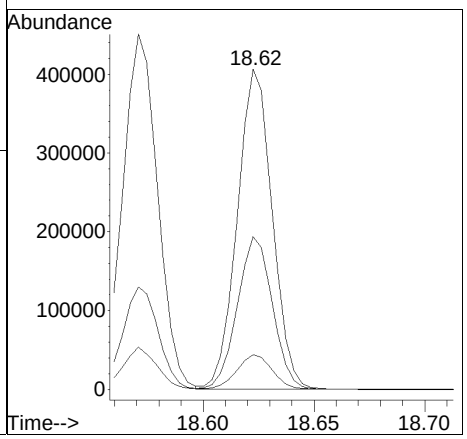


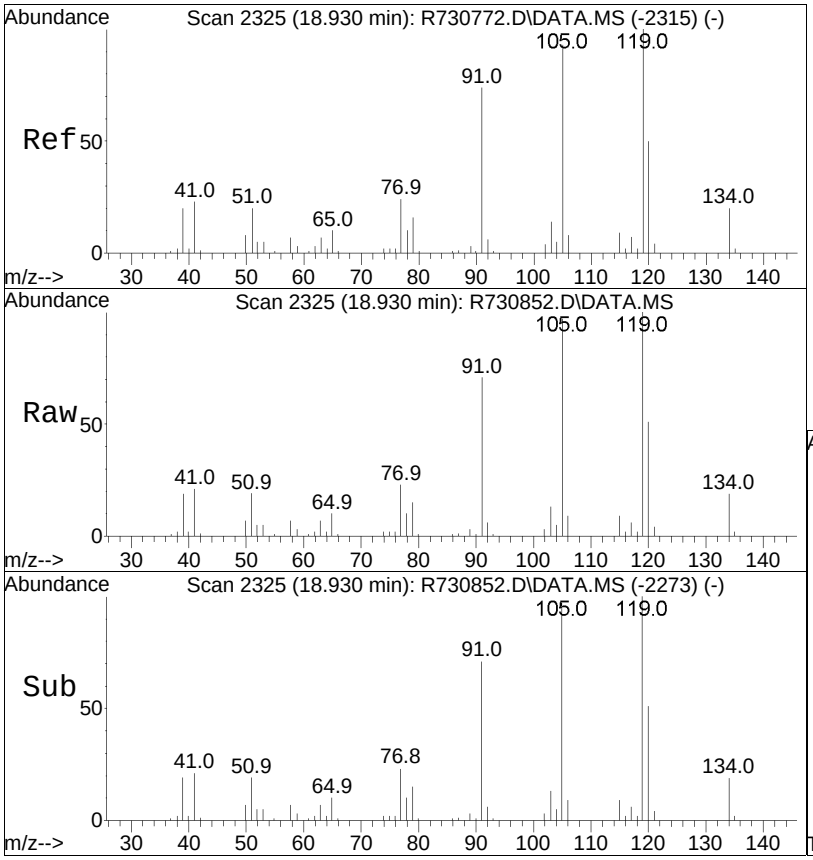


#97
1,3,5-trimethylbenzene
Concen: 9.16 ppbV
RT: 18.62 min Scan# 2244
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:105 Resp: 445942

Ion	Ratio	Lower	Upper
105	100		
120	47.7	38.2	57.2
91	10.8	8.8	13.2

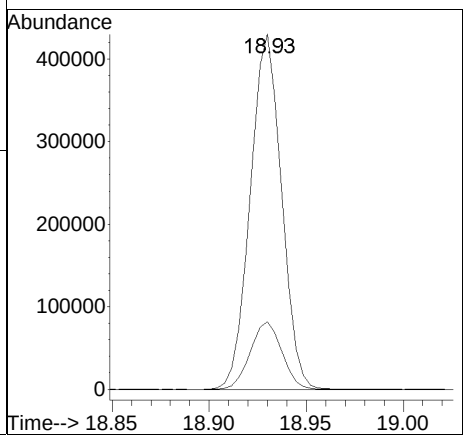


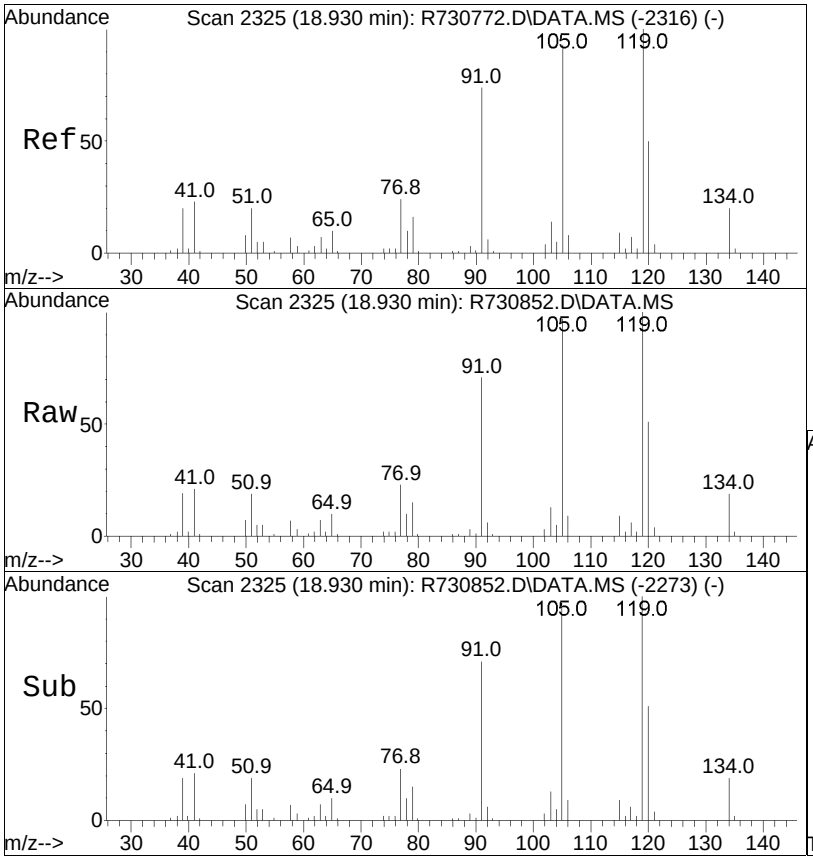


#98
tert-butylbenzene
Concen: 8.93 ppbV
RT: 18.93 min Scan# 2325
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:119 Resp: 481801

Ion	Ratio	Lower	Upper
119	100		
134	19.0	15.7	23.5

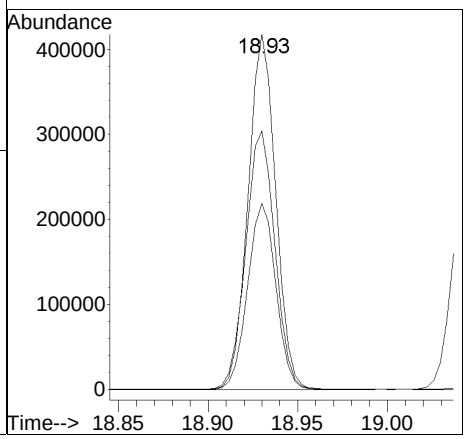


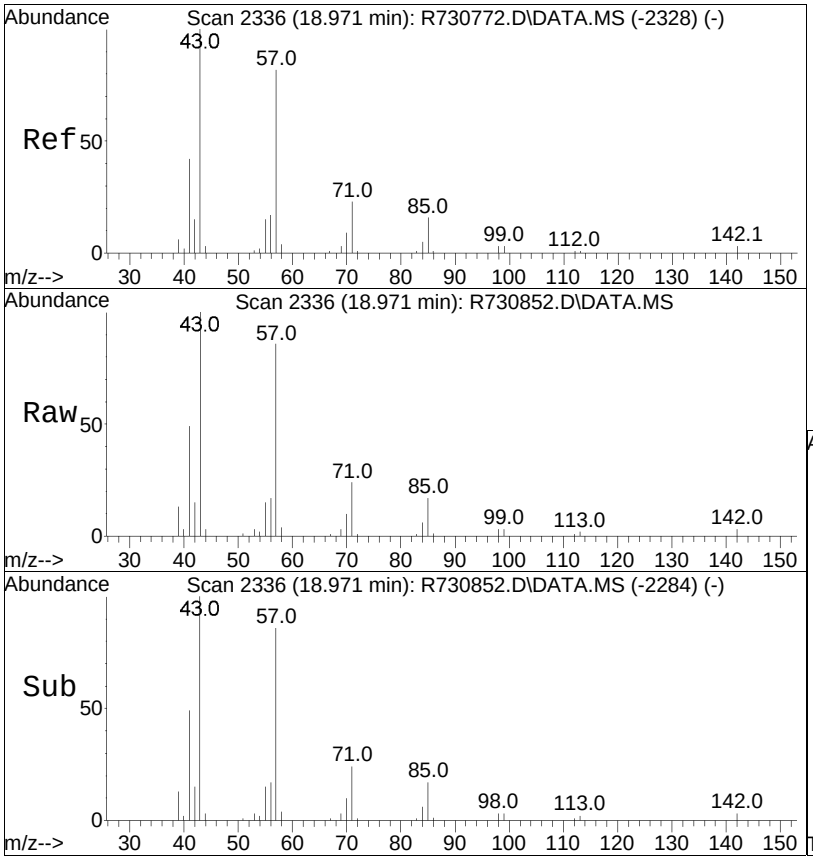


#99
1,2,4-trimethylbenzene
Concen: 9.71 ppbV
RT: 18.93 min Scan# 2325
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:105 Resp: 447678

Ion	Ratio	Lower	Upper
105	100		
120	52.4	42.5	63.7
91	72.7	63.4	95.2

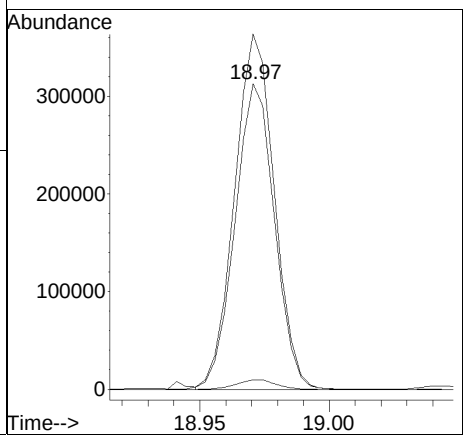


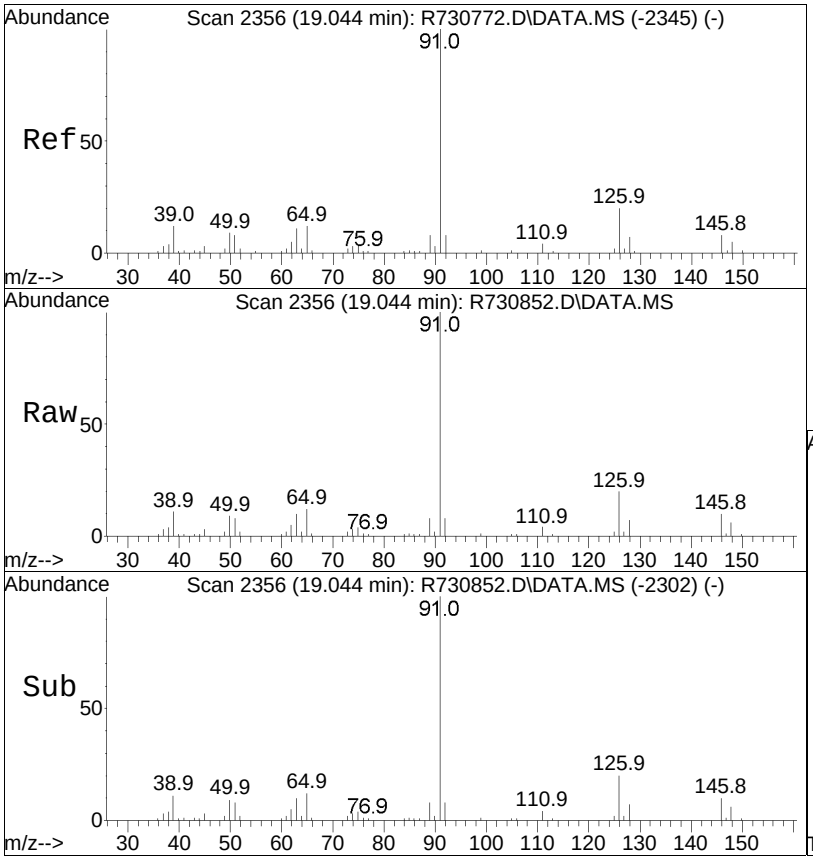


#100
decane
Concen: 8.65 ppbV
RT: 18.97 min Scan# 2336
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 57 Resp: 331669

Ion	Ratio	Lower	Upper
57	100		
43	116.3	97.2	145.8
142	3.1	2.4	3.6

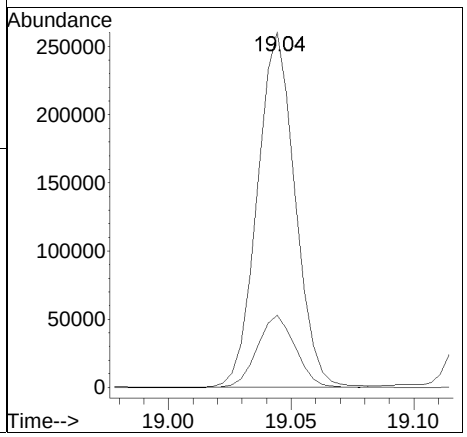


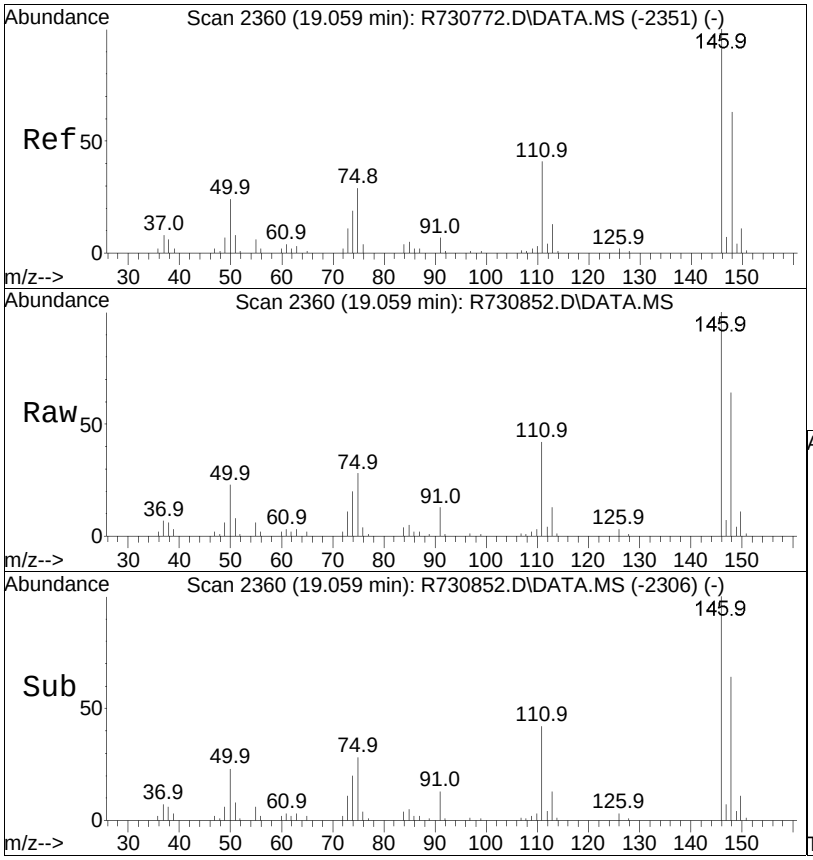


#101
Benzyl Chloride
Concen: 9.39 ppbV
RT: 19.04 min Scan# 2356
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 91 Resp: 278137

Ion	Ratio	Lower	Upper
91	100		
126	20.3	15.6	23.4

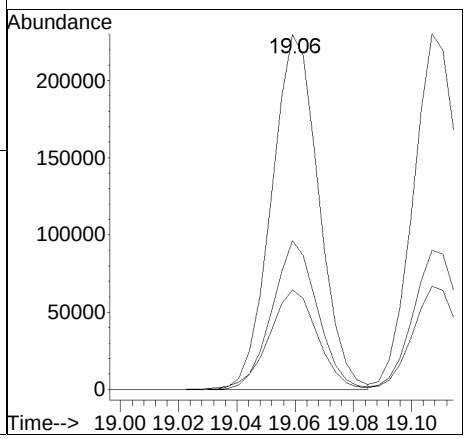


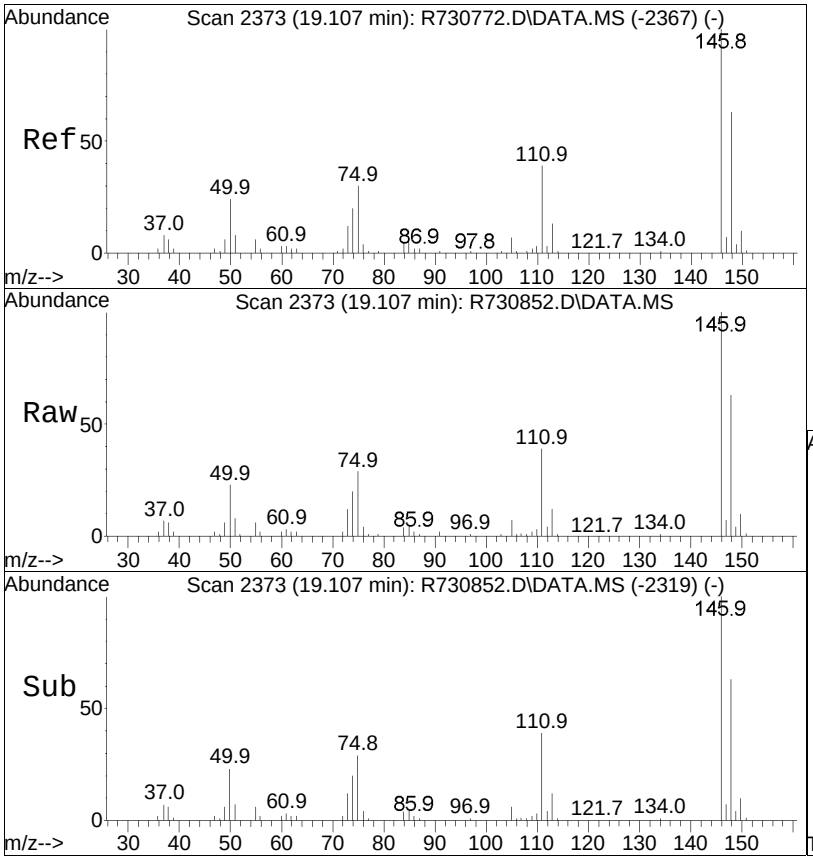


#102
1,3-dichlorobenzene
Concen: 8.90 ppbV
RT: 19.06 min Scan# 2360
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:146 Resp: 258515

Ion	Ratio	Lower	Upper
146	100		
111	41.9	32.6	48.8
75	28.1	23.0	34.6

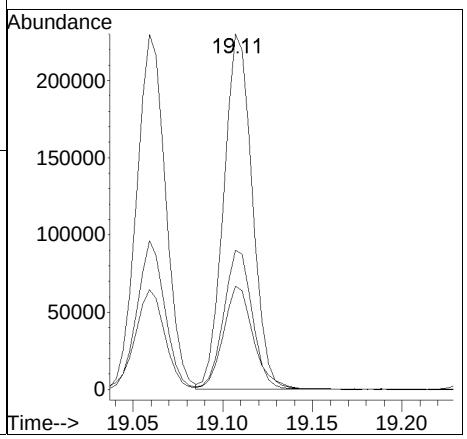


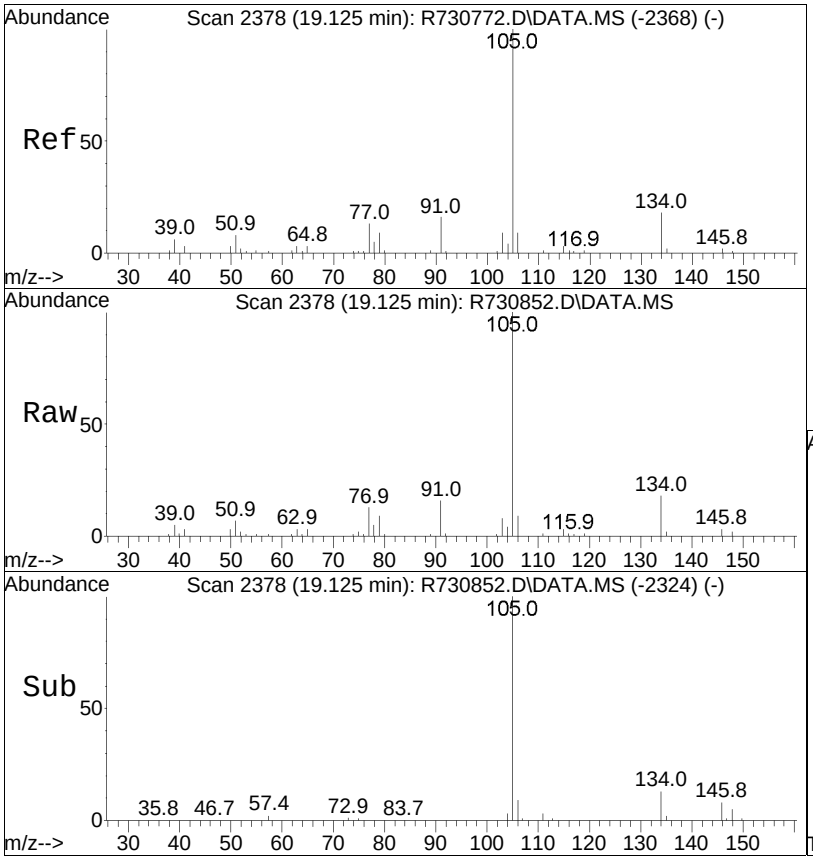


#103
1,4-dichlorobenzene
Concen: 8.99 ppbV
RT: 19.11 min Scan# 2373
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:146 Resp: 255070

Ion	Ratio	Lower	Upper
146	100		
111	39.2	30.9	46.3
75	29.1	24.0	36.0

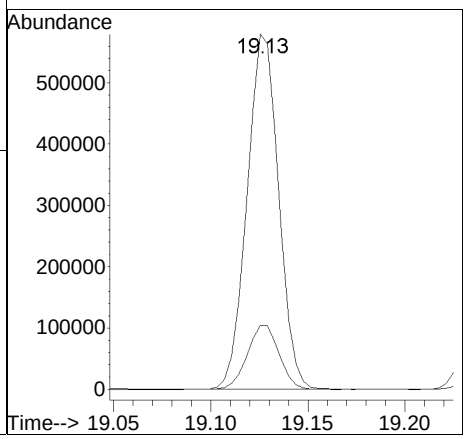


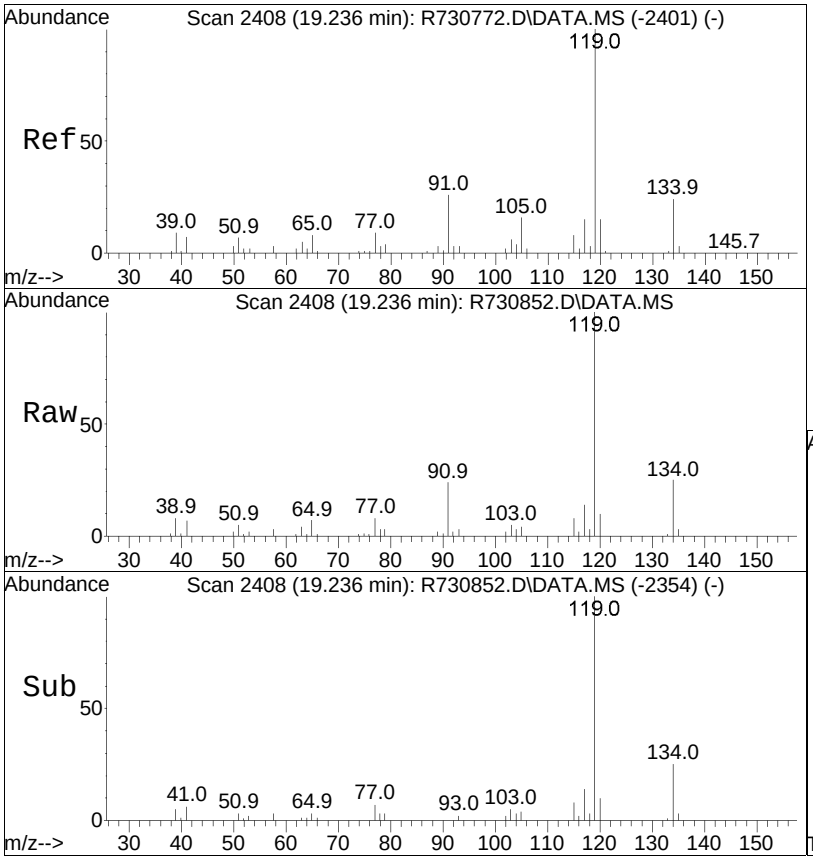


#104
sec-butylbenzene
Concen: 8.83 ppbV
RT: 19.13 min Scan# 2378
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:105 Resp: 654444

Ion	Ratio	Lower	Upper
105	100		
134	18.0	14.2	21.4

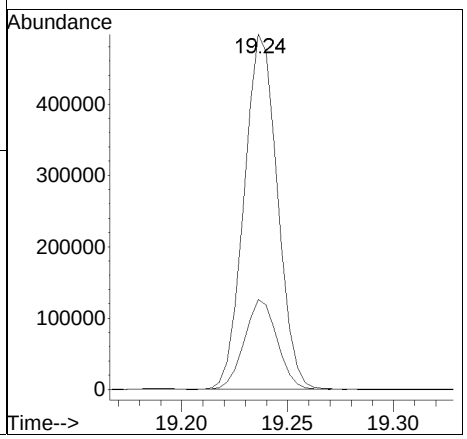


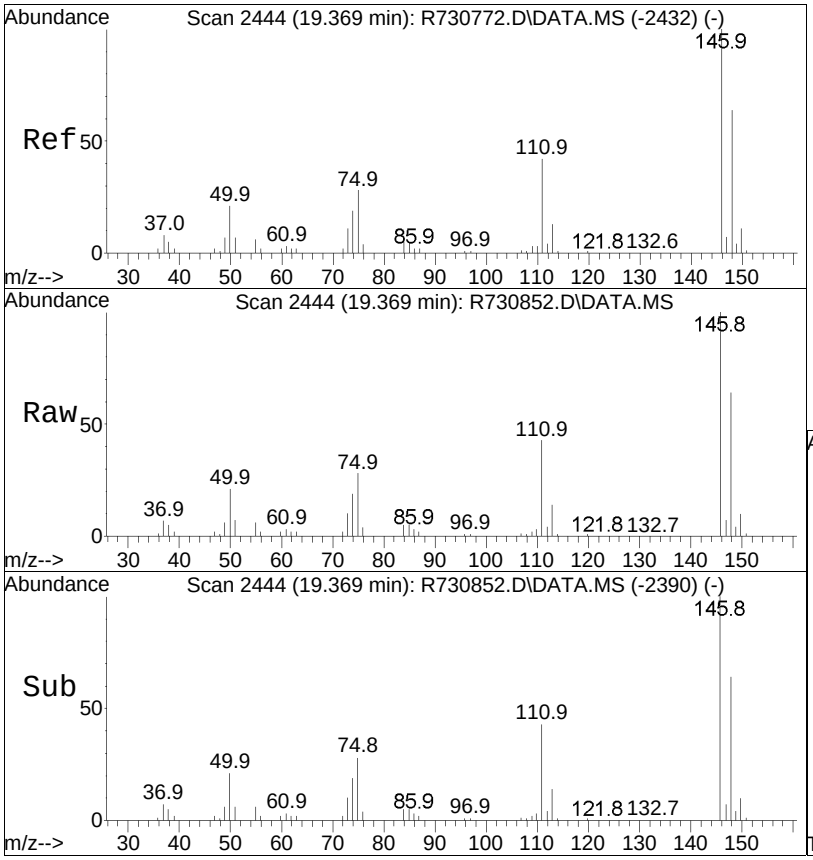


#106
p-isopropyltoluene
Concen: 8.59 ppbV
RT: 19.24 min Scan# 2408
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:119 Resp: 543417

Ion	Ratio	Lower	Upper
119	100		
134	25.3	19.4	29.0

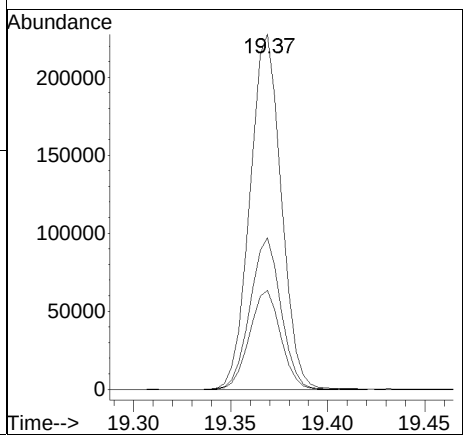


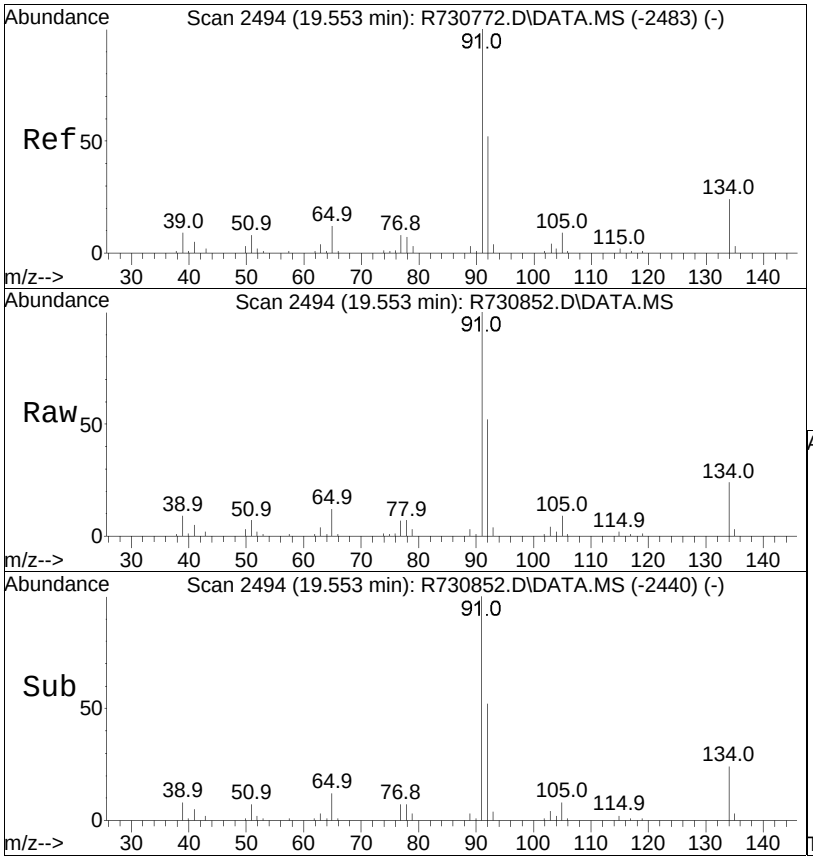


#107
1,2-dichlorobenzene
Concen: 9.02 ppbV
RT: 19.37 min Scan# 2444
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:146 Resp: 255424

Ion	Ratio	Lower	Upper
146	100		
111	42.7	33.4	50.2
75	27.9	22.4	33.6

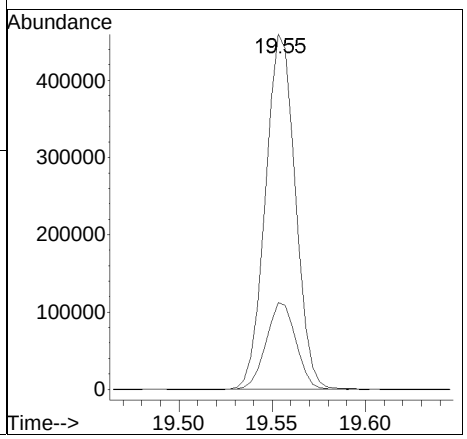


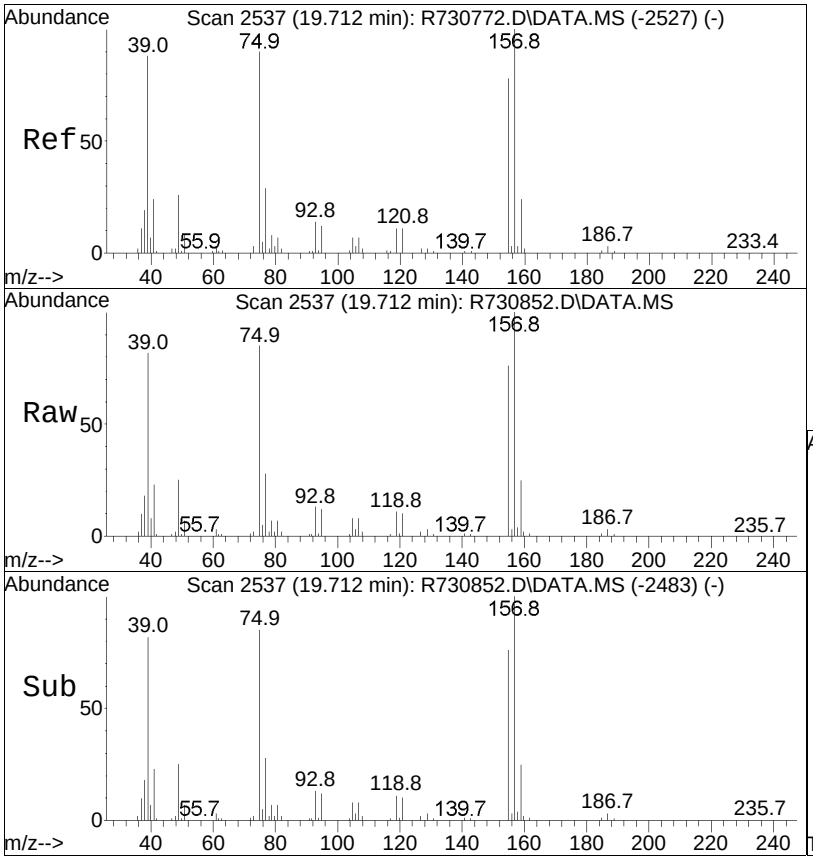


#108
n-butylbenzene
Concen: 9.20 ppbV
RT: 19.55 min Scan# 2494
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 91 Resp: 512206

Ion	Ratio	Lower	Upper
91	100		
134	24.4	19.4	29.2

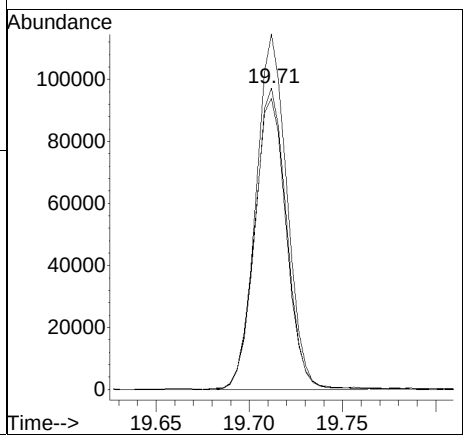


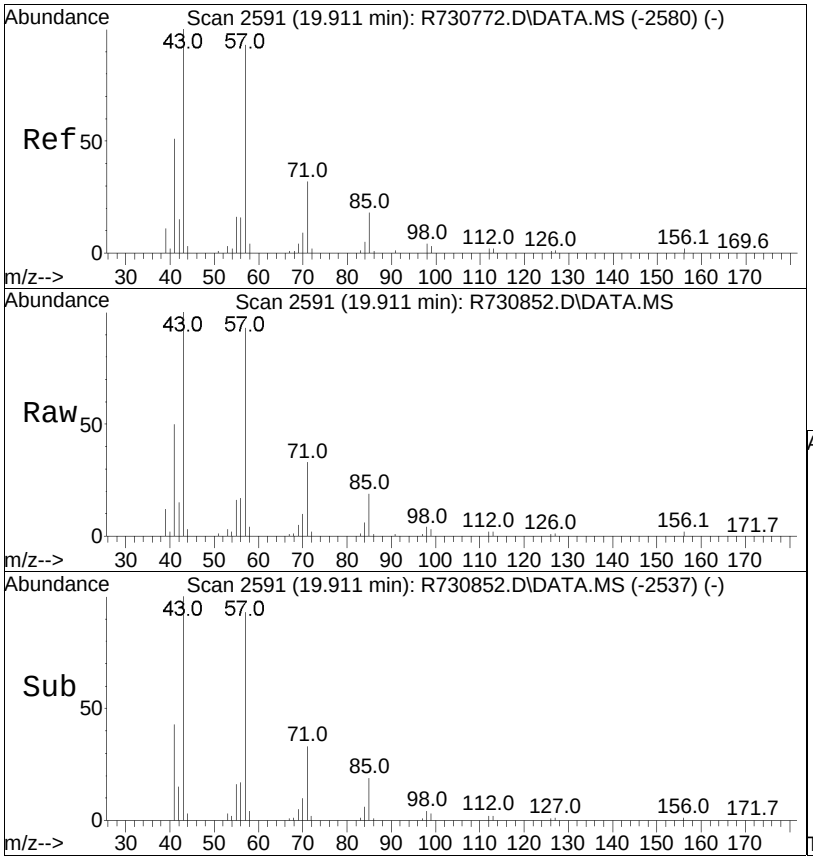


#111
1,2-dibromo-3-chloropropane
Concen: 8.68 ppbV
RT: 19.71 min Scan# 2537
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 75 Resp: 113922

Ion	Ratio	Lower	Upper
75	100		
157	118.0	89.0	133.4
39	96.6	78.8	118.2

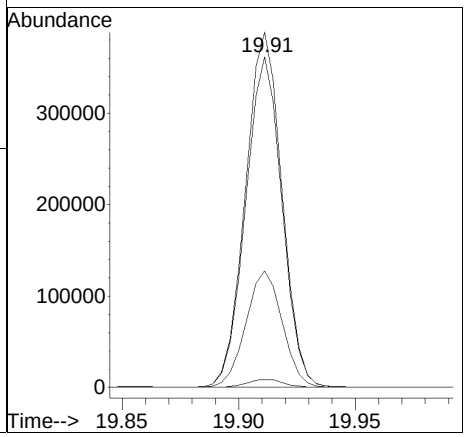


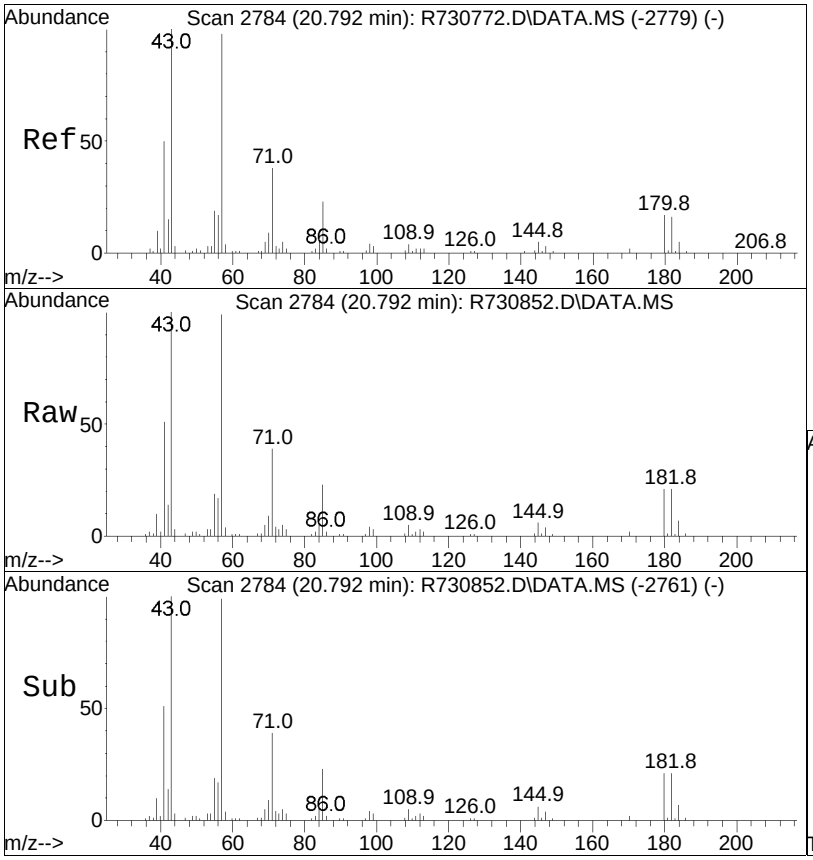


#112
undecane
Concen: 9.02 ppbV
RT: 19.91 min Scan# 2591
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 57 Resp: 393064

Ion	Ratio	Lower	Upper
57	100		
43	107.5	86.0	129.0
71	35.3	27.5	41.3
156	2.4	2.0	3.0

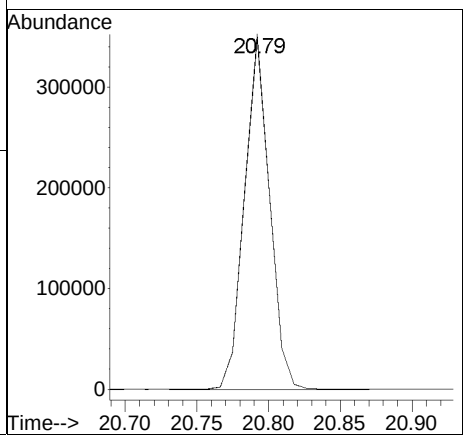


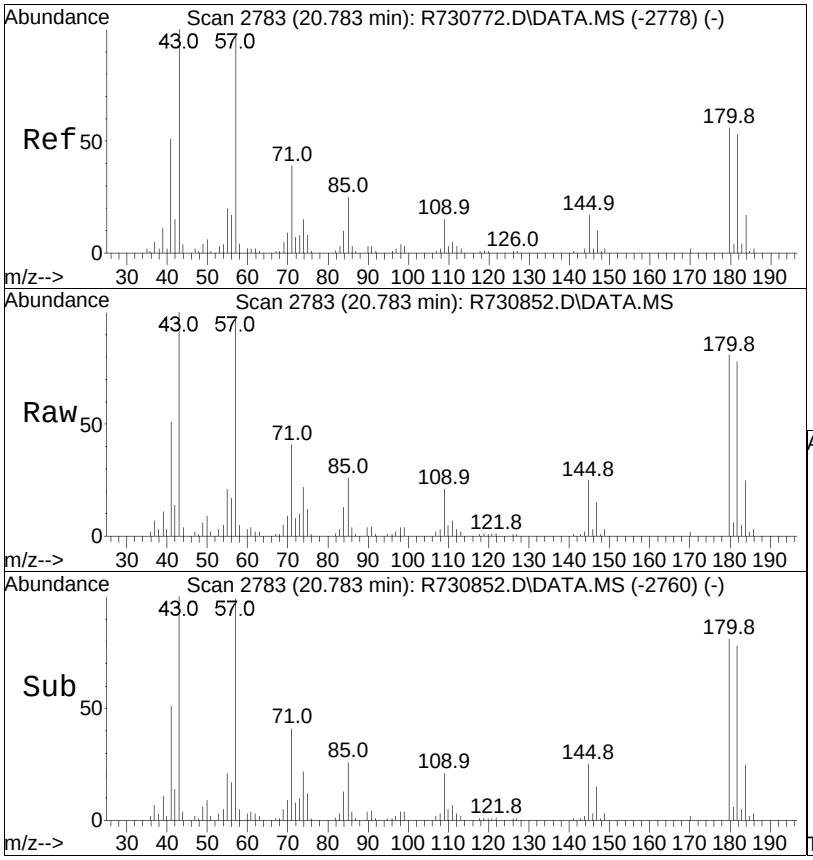


#114
dodecane
Concen: 9.38 ppbV
RT: 20.79 min Scan# 2784
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion: 57 Resp: 425028

Ion	Ratio	Lower	Upper
57	100		
43	101.5	82.0	123.0

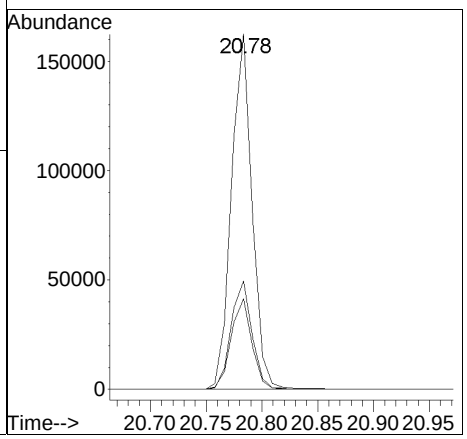


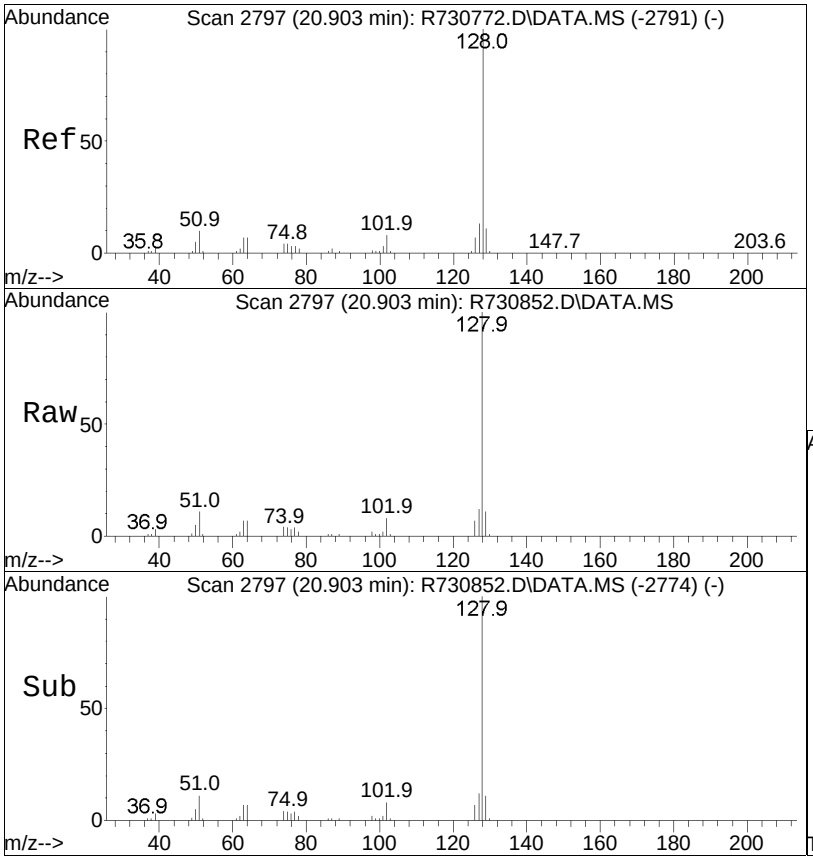


#115
1,2,4-trichlorobenzene
Concen: 9.73 ppbV
RT: 20.78 min Scan# 2783
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:180 Resp: 209688

Ion	Ratio	Lower	Upper
180	100		
145	30.5	24.1	36.1
109	25.5	21.0	31.4

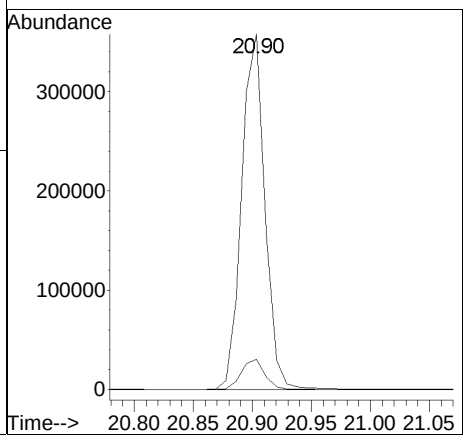


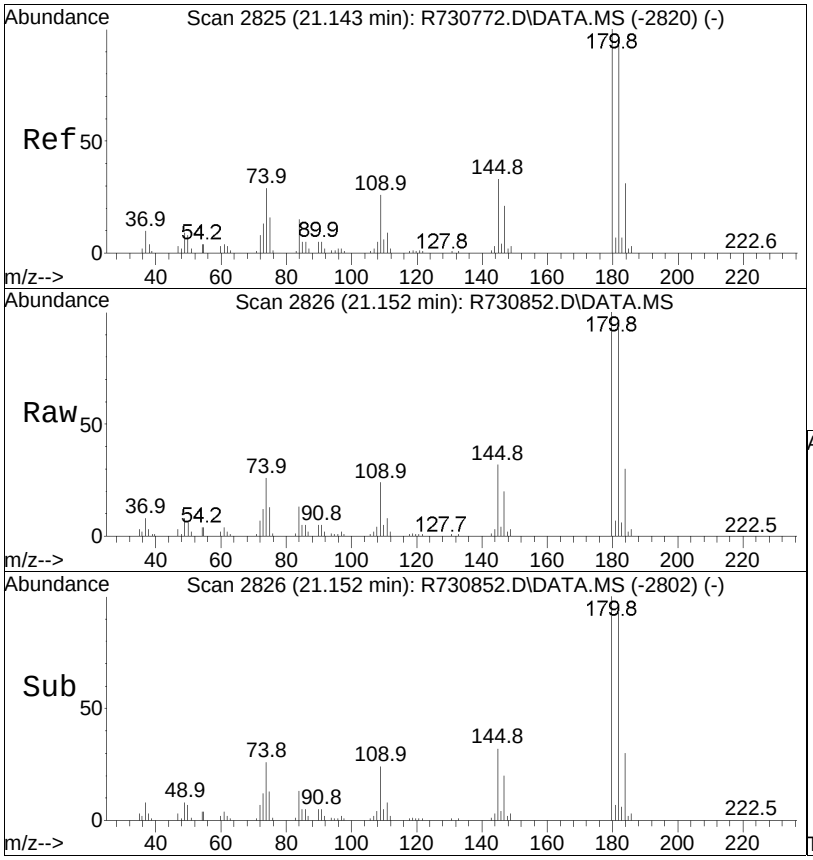


#116
naphthalene
Concen: 9.20 ppbV
RT: 20.90 min Scan# 2797
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:128 Resp: 490890

Ion	Ratio	Lower	Upper
128	100		
102	8.5	6.7	10.1

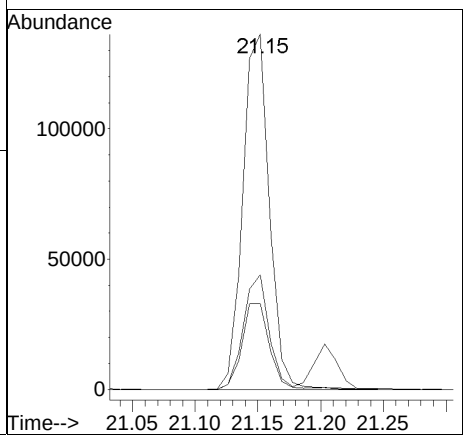


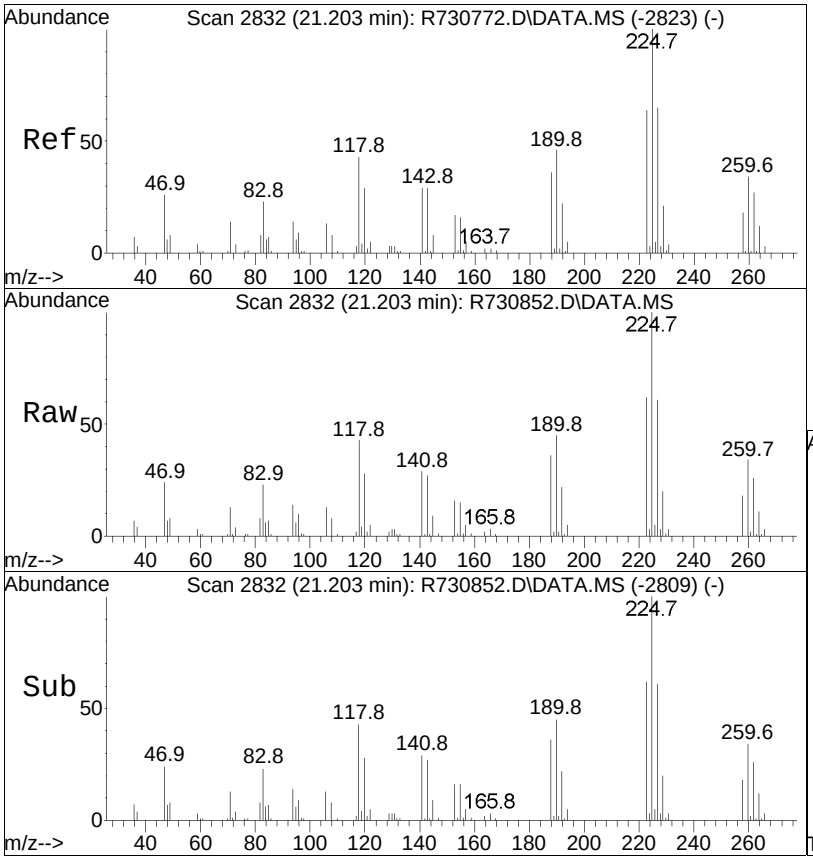


#117
1,2,3-trichlorobenzene
Concen: 8.95 ppbV
RT: 21.15 min Scan# 2826
Delta R.T. 0.009 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:180 Resp: 201262

Ion	Ratio	Lower	Upper
180	100		
145	32.3	26.5	39.7
109	24.2	20.8	31.2

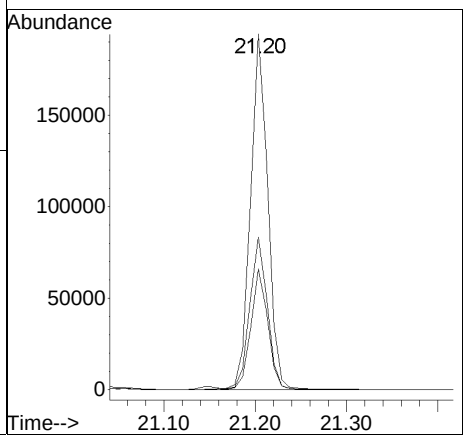




#119
hexachlorobutadiene
Concen: 9.27 ppbV
RT: 21.20 min Scan# 2832
Delta R.T. 0.000 min
Lab File: R730852.D
Acq: 1 Apr 2015 1:25 pm

Tgt Ion:225 Resp: 255566

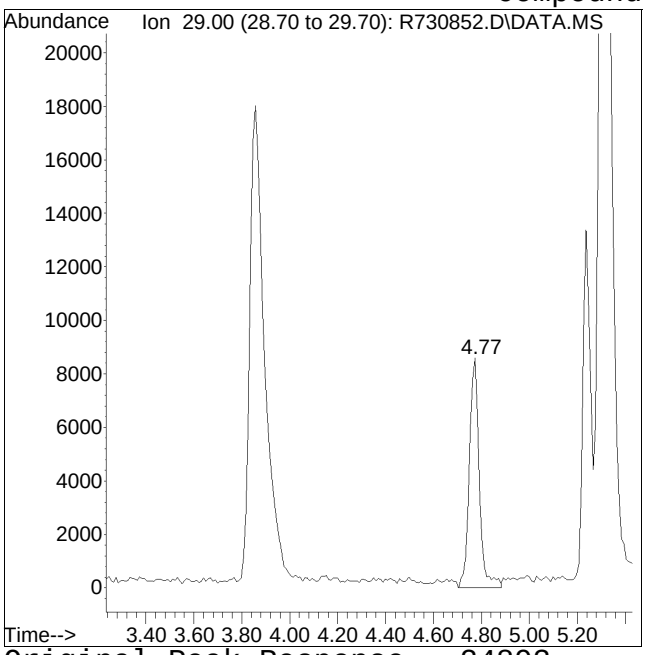
Ion	Ratio	Lower	Upper
225	100		
260	33.9	27.4	41.0
118	42.9	34.8	52.2



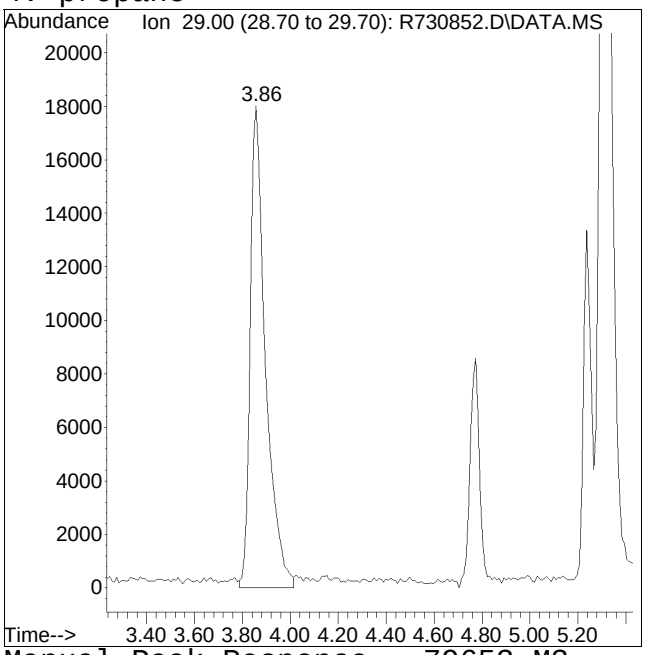
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TALL150328.M
Data File : R730852.D Operator : AIRLAB7:RY
Date Inj'd : 4/1/2015 1:25 pm Instrument : Airlab 7
Sample : WG772680-3,3,250,250 Quant Date : 4/1/2015 1:48 pm

Compound #4: propane



Original Peak Response = 24893



Manual Peak Response = 79653 M3

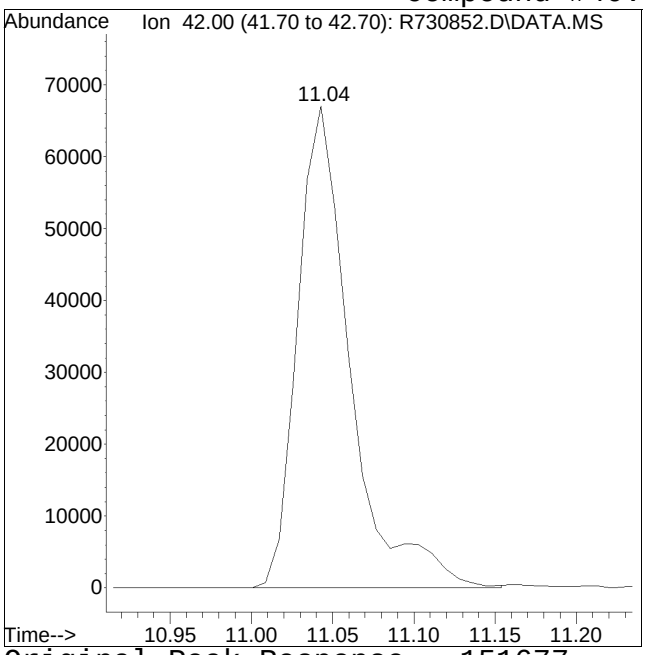
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

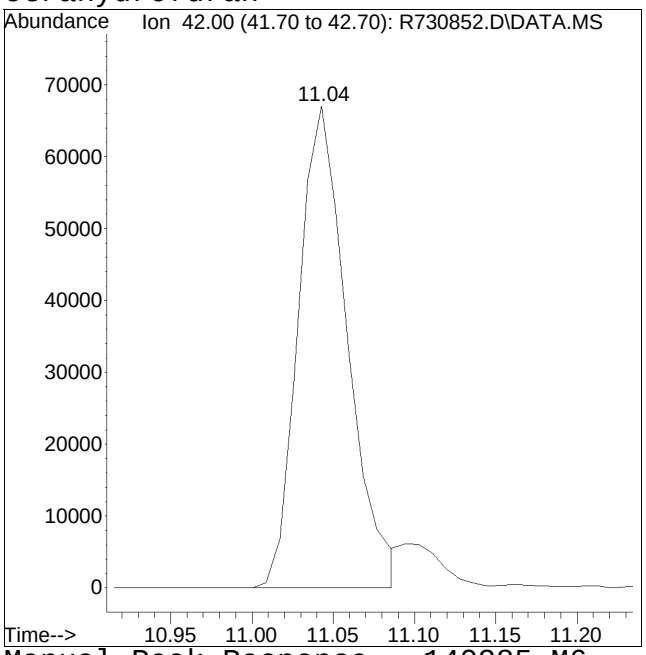
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730852.D
Date Inj'd : 4/1/2015 1:25 pm
Sample : WG772680-3,3,250,250

Method : TALL150328.M
Operator : AIRLAB7:RY
Instrument : Airlab 7
Quant Date : 4/1/2015 1:48 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 151677



Manual Peak Response = 140285 M6

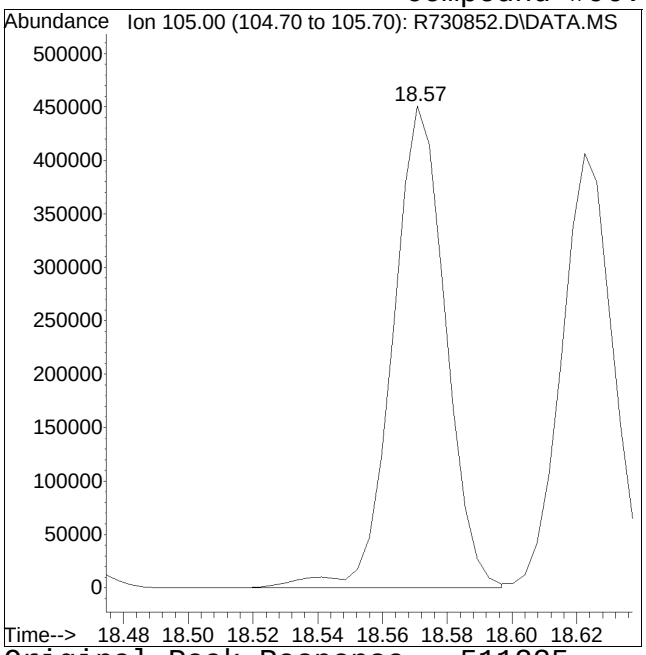
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

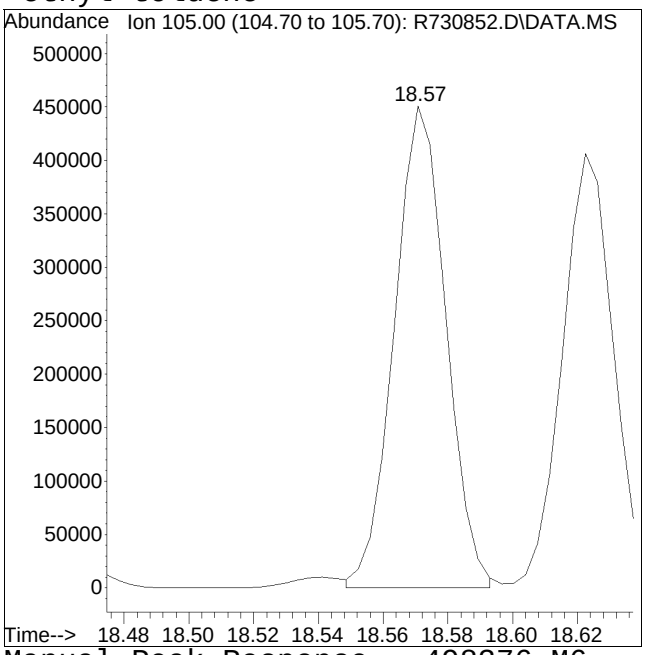
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730852.D
Date Inj'd : 4/1/2015 1:25 pm
Sample : WG772680-3,3,250,250

Method : TALL150328.M
Operator : AIRLAB7:RY
Instrument : Airlab 7
Quant Date : 4/1/2015 1:48 pm

Compound #96: 4-ethyl toluene



Original Peak Response = 511225



Manual Peak Response = 498376 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730863.D
Acq On : 1 Apr 2015 8:45 pm
Operator : AIRLAB7:RY
Sample : WG772680-5,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 09:49:40 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	123693	10.000	ppbV	0.00
Standard Area = 138435			Recovery =	89.35%		
43) 1,4-difluorobenzene	12.56	114	202556	10.000	ppbV	0.01
Standard Area = 232924			Recovery =	86.96%		
67) chlorobenzene-D5	16.83	54	60705	10.000	ppbV	0.00
Standard Area = 83341			Recovery =	72.84%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.84	85	5656	0.332	ppbV	93
6) chloromethane	5.06	50	4956	0.439	ppbV	100
7) Freon-114	0.00		0	N.D.		
10) 1,3-butadiene	0.00		0	N.D.		
13) bromomethane	0.00		0	N.D.		
14) chloroethane	0.00		0	N.D.		
15) ethanol	6.35	31	54052	5.473	ppbV	99
17) vinyl bromide	0.00		0	N.D.		
19) acetone	6.95	43	91220	4.635	ppbV #	97
21) trichlorofluoromethane	7.14	101	18355	0.675	ppbV	98
22) isopropyl alcohol	7.31	45	5359M6	0.254	ppbV	
27) tertiary butyl alcohol	0.00		0	N.D.	d	
28) methylene chloride	8.05	49	4161	0.261	ppbV	95
29) 3-chloropropene	8.12		0	N.D.		
30) carbon disulfide	8.37	76	1347	0.055	ppbV #	1
31) Freon 113	8.37		0	N.D.		
32) trans-1,2-dichloroethene	0.00		0	N.D.		
33) 1,1-dichloroethane	0.00		0	N.D.		
34) MTBE	0.00		0	N.D.		
36) 2-butanone	9.85	43	17797	0.604	ppbV #	93
38) Ethyl Acetate	10.57	61	295	0.099	ppbV #	1
39) chloroform	10.61		0	N.D.		
40) Tetrahydrofuran	0.00		0	N.D.	d	
42) 1,2-dichloroethane	0.00		0	N.D.		
44) hexane	10.52	57	3957	0.270	ppbV #	1
50) benzene	12.17	78	4870	0.248	ppbV	99
53) cyclohexane	12.47	56	10051	0.802	ppbV	88
56) 1,2-dichloropropane	0.00		0	N.D.		
57) bromodichloromethane	0.00		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730863.D
Acq On : 1 Apr 2015 8:45 pm
Operator : AIRLAB7:RY
Sample : WG772680-5,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 09:49:40 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401T\R730851.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,4-dioxane	0.00		0	N.D.		
60) 2,2,4-trimethylpentane	0.00		0	N.D.	d	
62) heptane	13.63	43	4550	0.178	ppbV #	92
63) cis-1,3-dichloropropene	0.00		0	N.D.		
64) 4-methyl-2-pentanone	0.00		0	N.D.	d	
65) trans-1,3-dichloropropene	0.00		0	N.D.		
66) 1,1,2-trichloroethane	0.00		0	N.D.		
68) toluene	15.28	91	23422	0.821	ppbV	98
72) 2-hexanone	0.00		0	N.D.	d	
74) dibromochloromethane	0.00		0	N.D.		
75) 1,2-dibromoethane	0.00		0	N.D.		
80) chlorobenzene	0.00		0	N.D.		
81) ethylbenzene	17.16	91	3698	0.104	ppbV	91
83) m+p-xylene	17.29	91	10497	0.375	ppbV	99
84) bromoform	0.00		0	N.D.		
85) styrene	17.58		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.00		0	N.D.		
87) o-xylene	17.67	91	4172	0.144	ppbV	97
96) 4-ethyl toluene	18.58		0	N.D.		
97) 1,3,5-trimethylbenzene	18.63		0	N.D.		
99) 1,2,4-trimethylbenzene	18.94	105	3699	0.109	ppbV #	47
101) Benzyl Chloride	18.93		0	N.D.		
102) 1,3-dichlorobenzene	0.00		0	N.D.		
103) 1,4-dichlorobenzene	0.00		0	N.D.		
107) 1,2-dichlorobenzene	0.00		0	N.D.		
115) 1,2,4-trichlorobenzene	20.79		0	N.D.		
116) naphthalene	20.91	128	11167	0.283	ppbV	97
119) hexachlorobutadiene	0.00		0	N.D.		

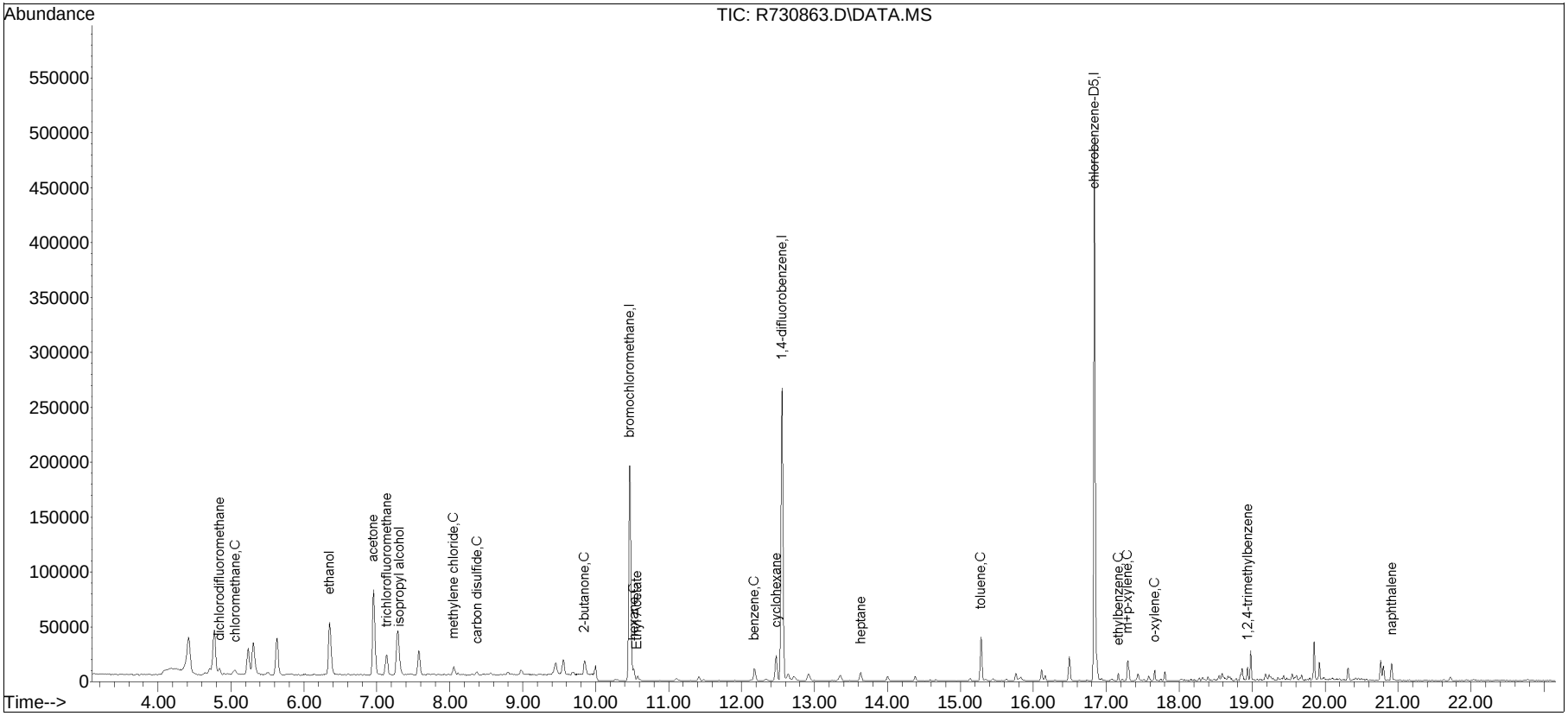
(#) = qualifier out of range (m) = manual integration (+) = signals summed

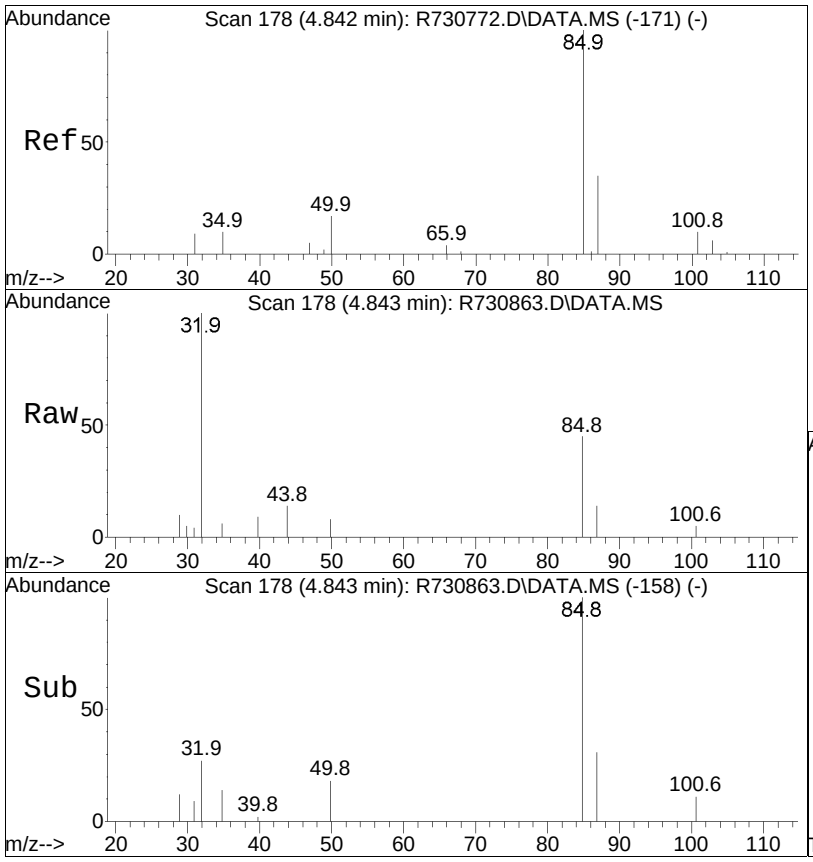
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401T\
Data File : R730863.D
Acq On : 1 Apr 2015 8:45 pm
Operator : AIRLAB7:RY
Sample : WG772680-5,3,250,250
Misc : WG772680,ICAL10834
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 09:49:40 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401T\TALL150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 07:59:36 2015
Response via : Initial Calibration

Sub List : TO15-NY-7-sim+Naphthalene - .5\150401T\R730851.D

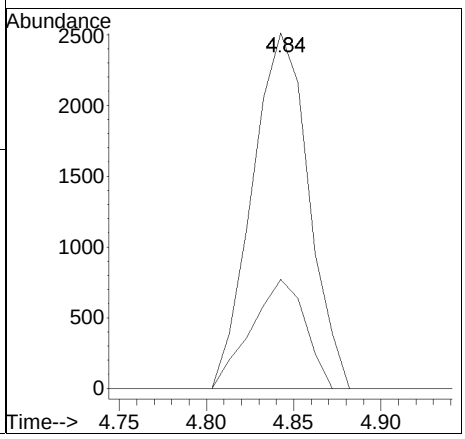


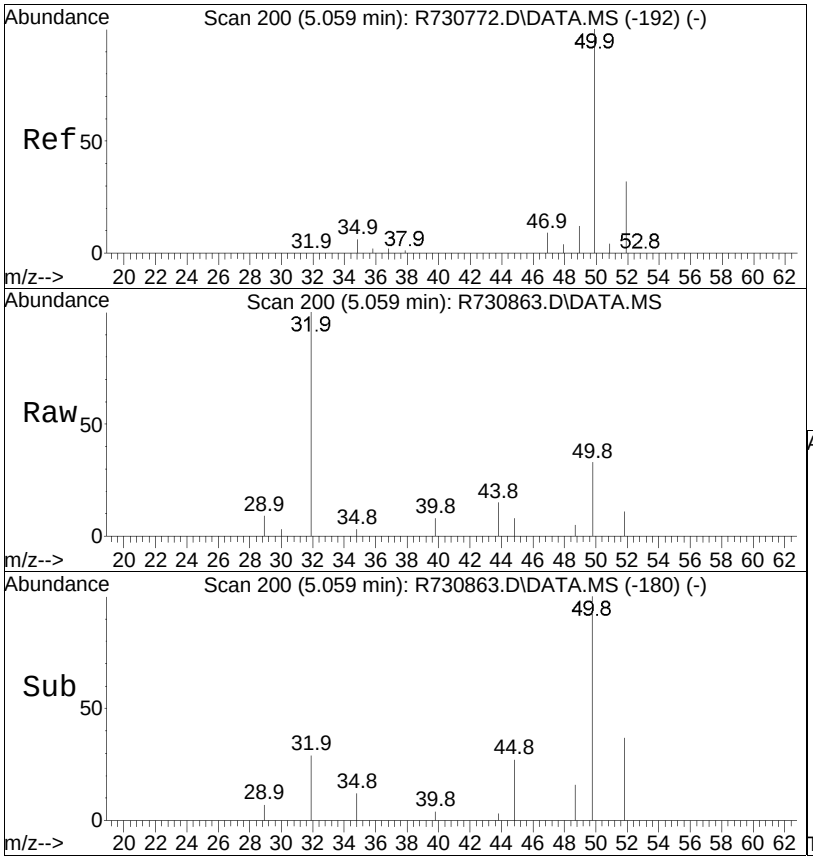


#5
dichlorodifluoromethane
Concen: 0.33 ppbV
RT: 4.84 min Scan# 178
Delta R.T. 0.000 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 85 Resp: 5656

Ion	Ratio	Lower	Upper
85	100		
87	30.7	27.7	41.5

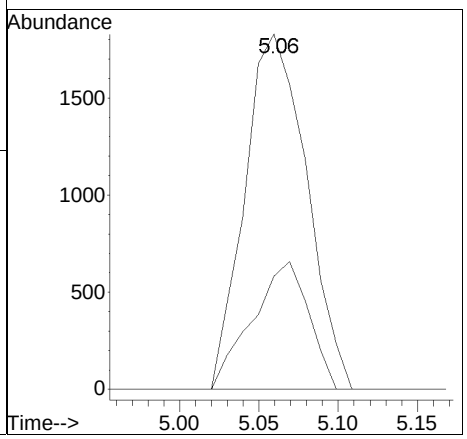


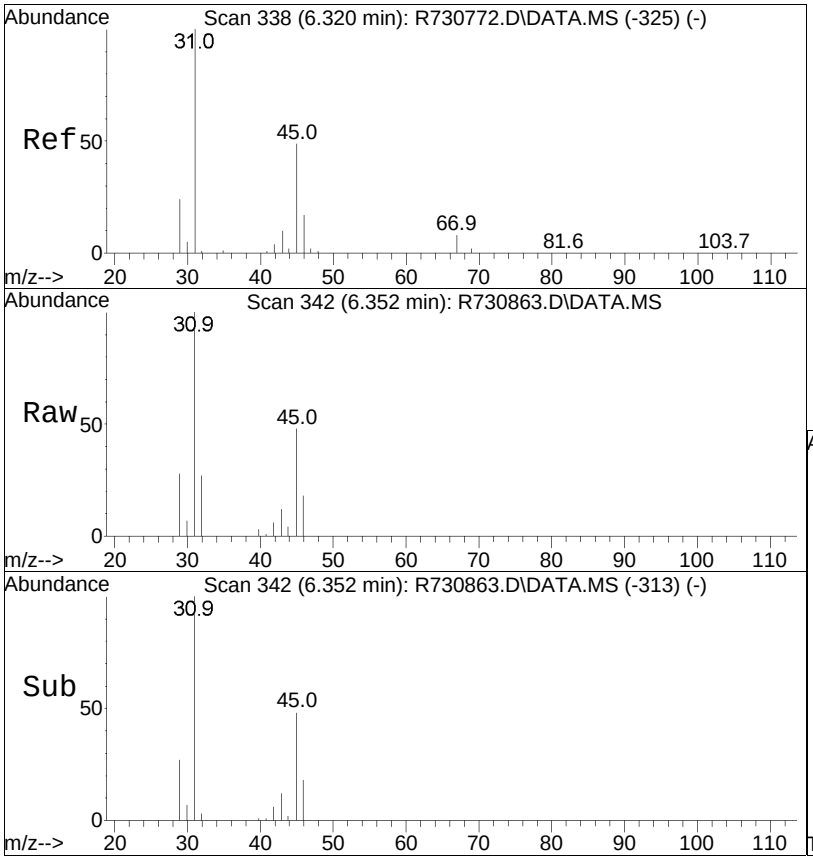


#6
chloromethane
Concen: 0.44 ppbV
RT: 5.06 min Scan# 200
Delta R.T. 0.000 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 50 Resp: 4956

Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.7	38.5

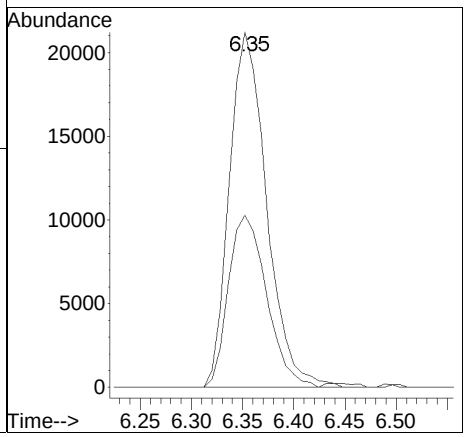


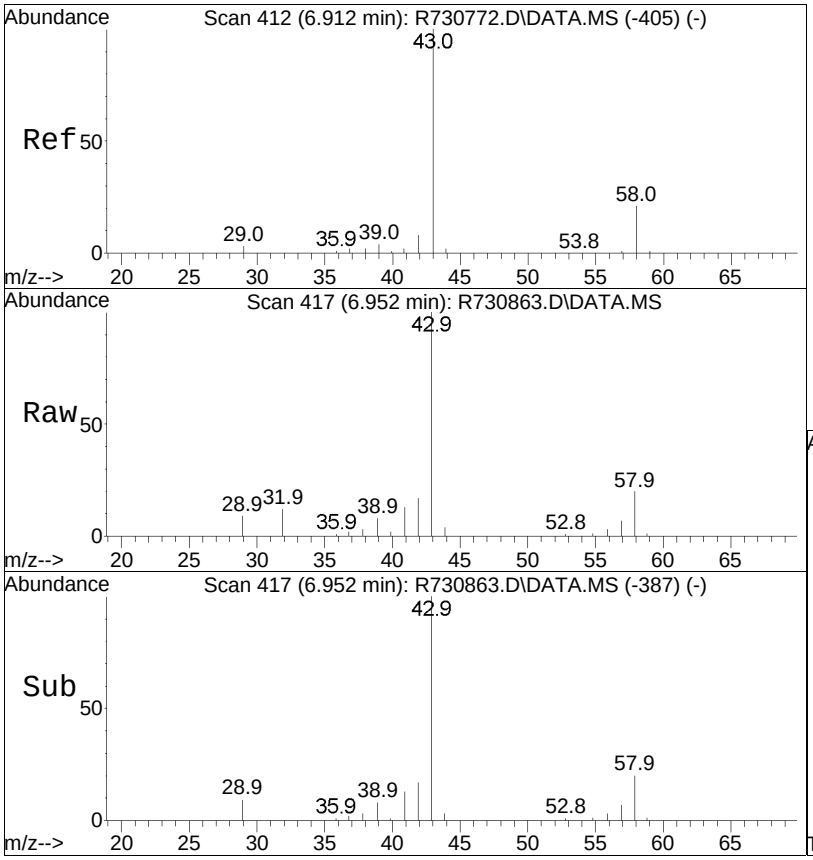


#15
ethanol
Concen: 5.47 ppbV
RT: 6.35 min Scan# 342
Delta R.T. 0.032 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 31 Resp: 54052

Ion	Ratio	Lower	Upper
31	100		
45	48.5	39.0	58.6

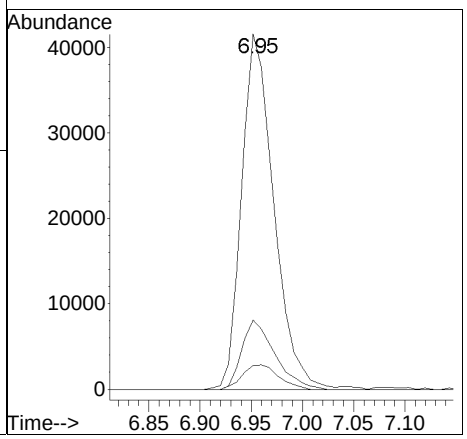


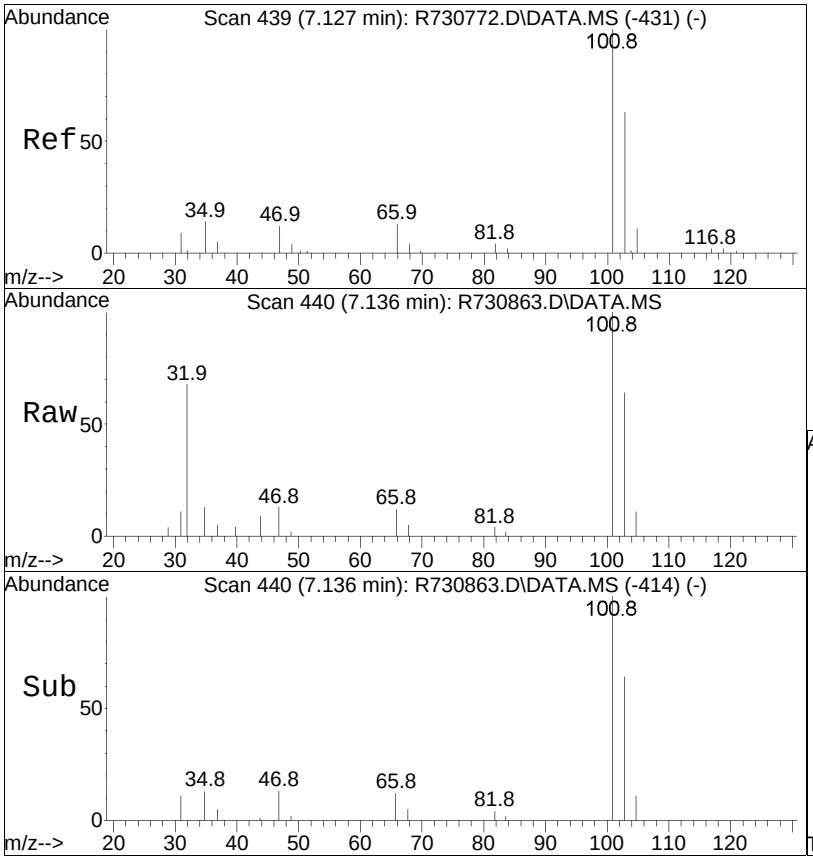


#19
acetone
Concen: 4.63 ppbV
RT: 6.95 min Scan# 417
Delta R.T. 0.040 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 43 Resp: 91220

Ion	Ratio	Lower	Upper
43	100		
58	19.5	16.7	25.1
57	6.8	0.5	0.7#

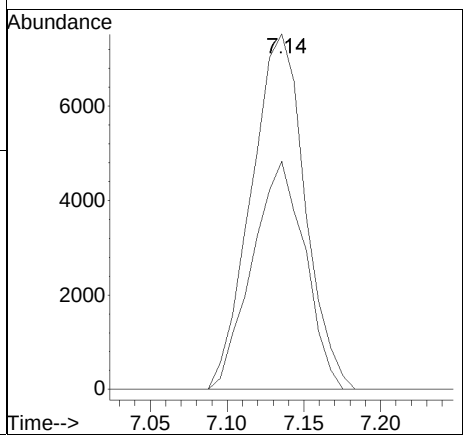


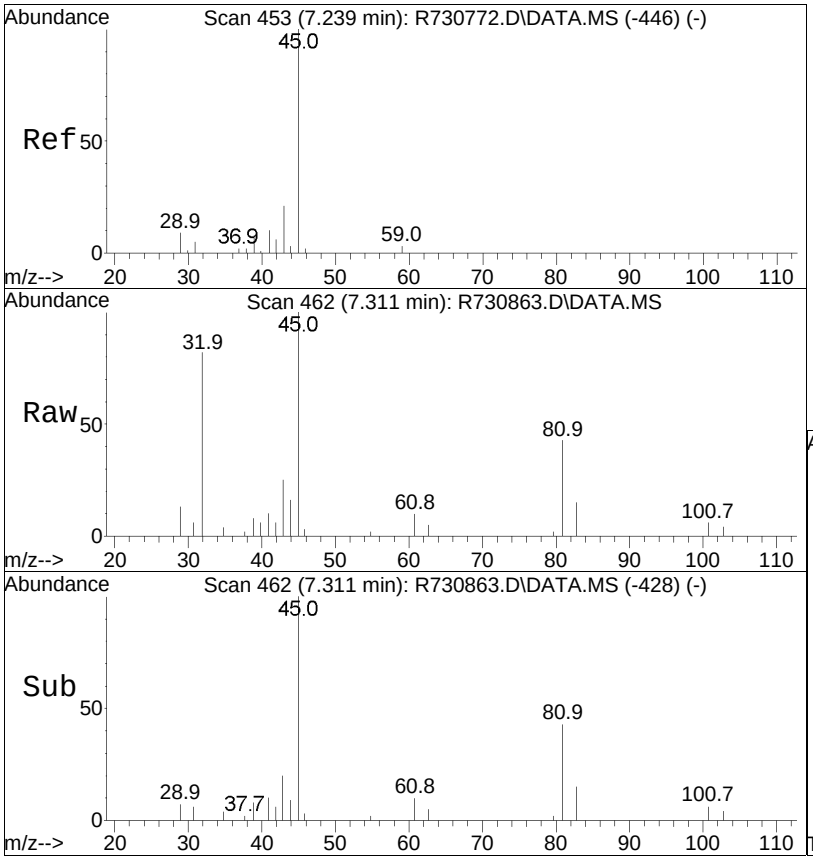


#21
trichlorofluoromethane
Concen: 0.67 ppbV
RT: 7.14 min Scan# 440
Delta R.T. 0.008 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion:101 Resp: 18355

Ion	Ratio	Lower	Upper
101	100		
103	64.1	50.3	75.5

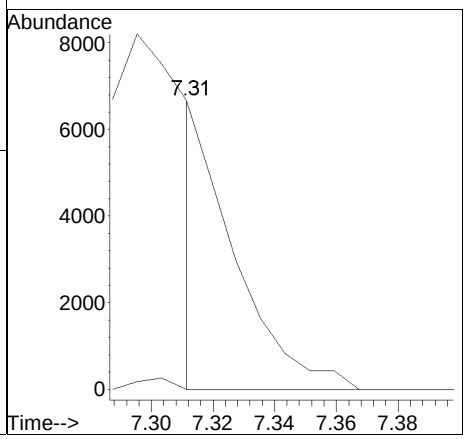


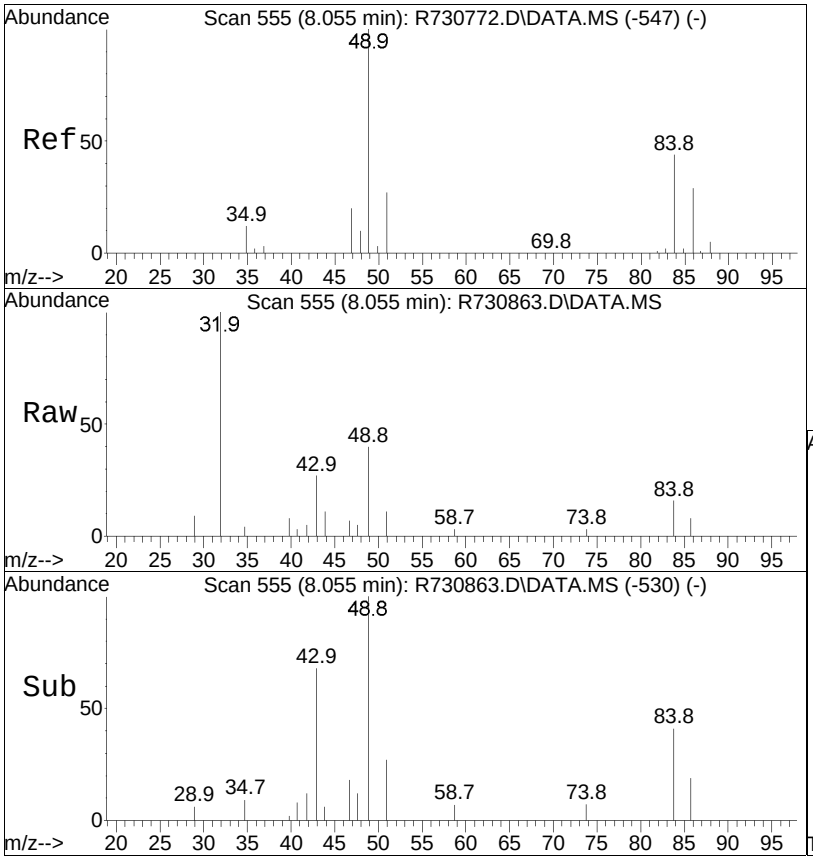


#22
isopropyl alcohol
Concen: 0.25 ppbV m
RT: 7.31 min Scan# 462
Delta R.T. 0.072 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 45 Resp: 5359

Ion	Ratio	Lower	Upper
45	100		
59	0.0	2.5	3.7#

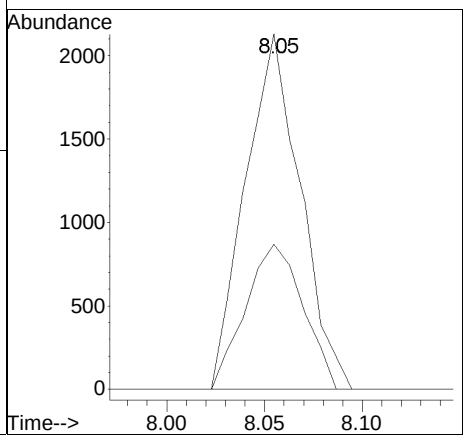


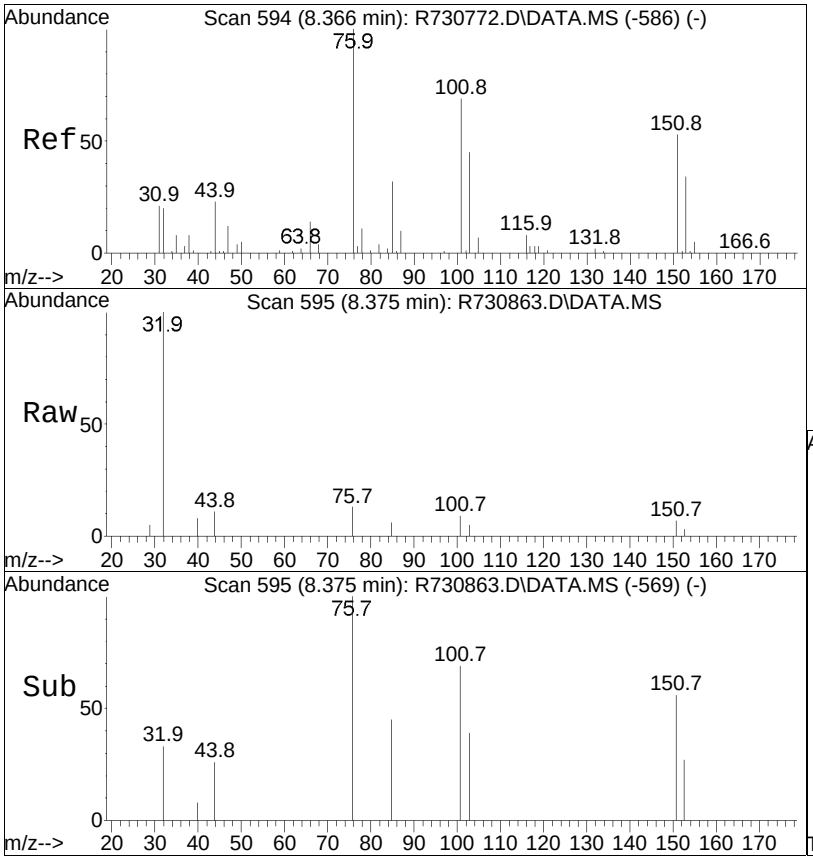


#28
methylene chloride
Concen: 0.26 ppbV
RT: 8.05 min Scan# 555
Delta R.T. 0.000 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 49 Resp: 4161

Ion	Ratio	Lower	Upper
49	100		
84	40.8	35.4	53.2

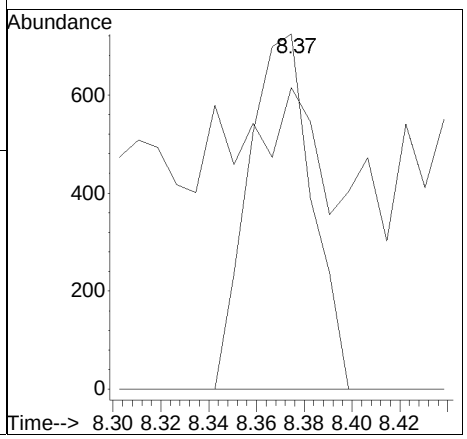


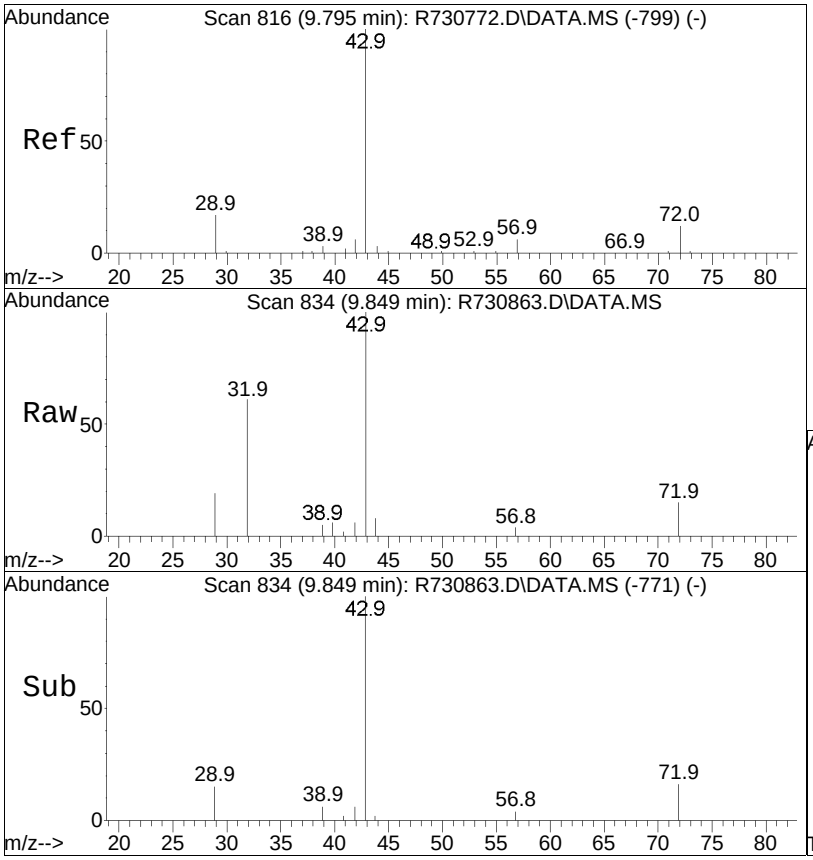


#30
carbon disulfide
Concen: 0.05 ppbV
RT: 8.37 min Scan# 595
Delta R.T. 0.008 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 76 Resp: 1347

Ion	Ratio	Lower	Upper
76	100		
44	84.9	18.6	27.8#

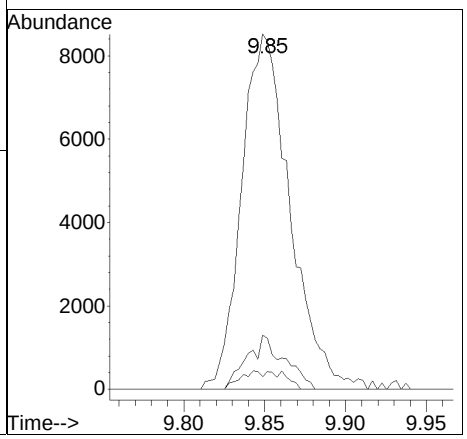


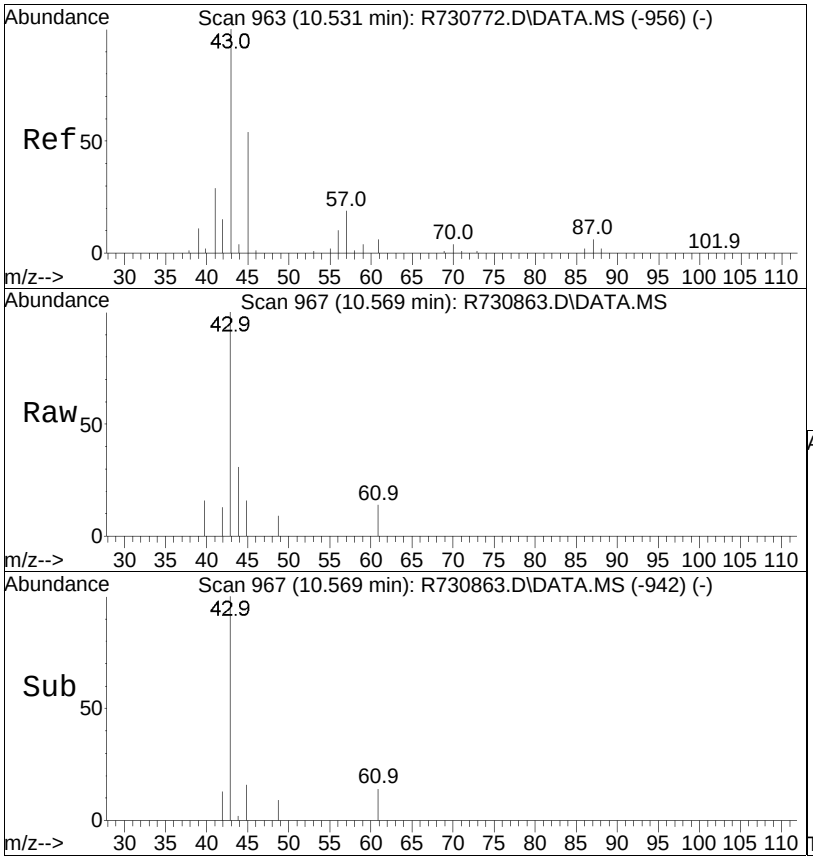


#36
2-butanone
Concen: 0.60 ppbV
RT: 9.85 min Scan# 834
Delta R.T. 0.053 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 43 Resp: 17797

Ion	Ratio	Lower	Upper
43	100		
72	15.2	9.9	14.9#
57	3.6	4.8	7.2#

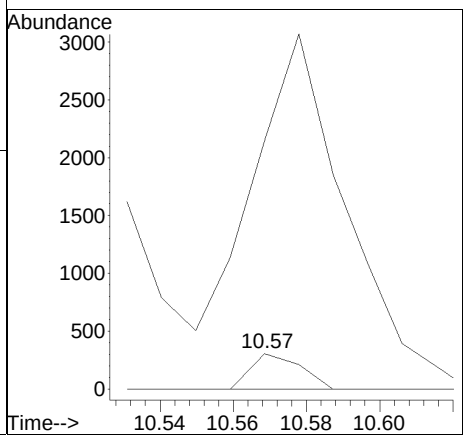


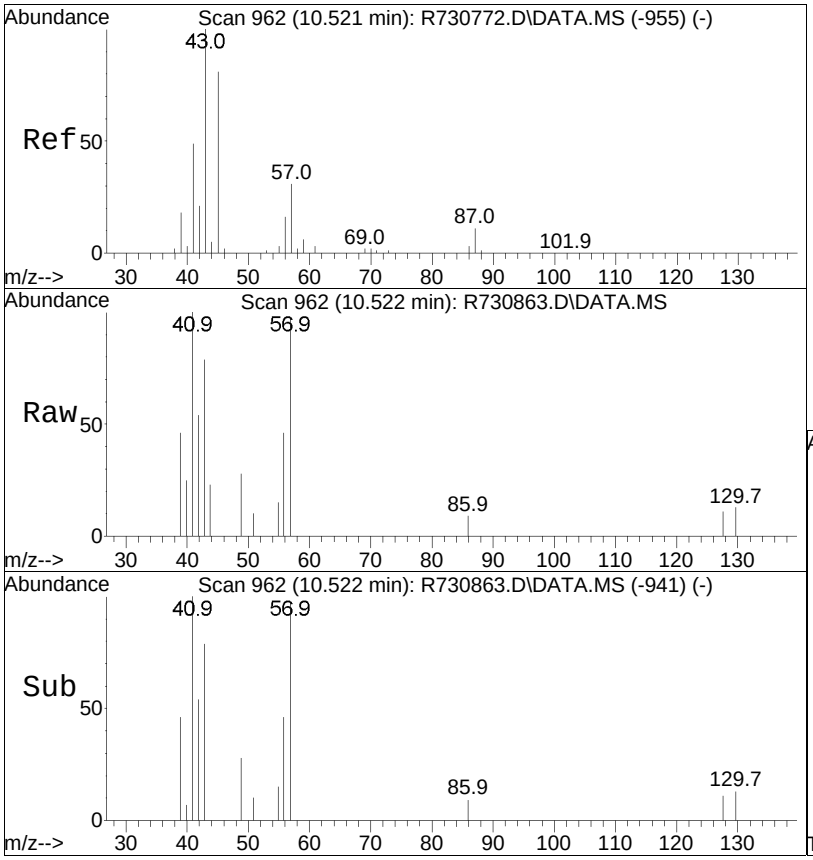


#38
Ethyl Acetate
Concen: 0.10 ppbV
RT: 10.57 min Scan# 967
Delta R.T. 0.038 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 61 Resp: 295

Ion	Ratio	Lower	Upper
61	100		
70	0.0	50.6	75.8#
43	696.8	1333.2	1999.8#

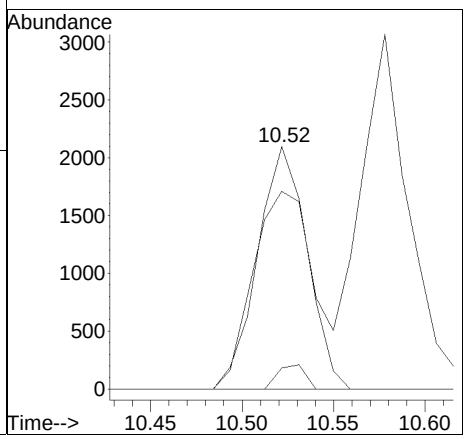


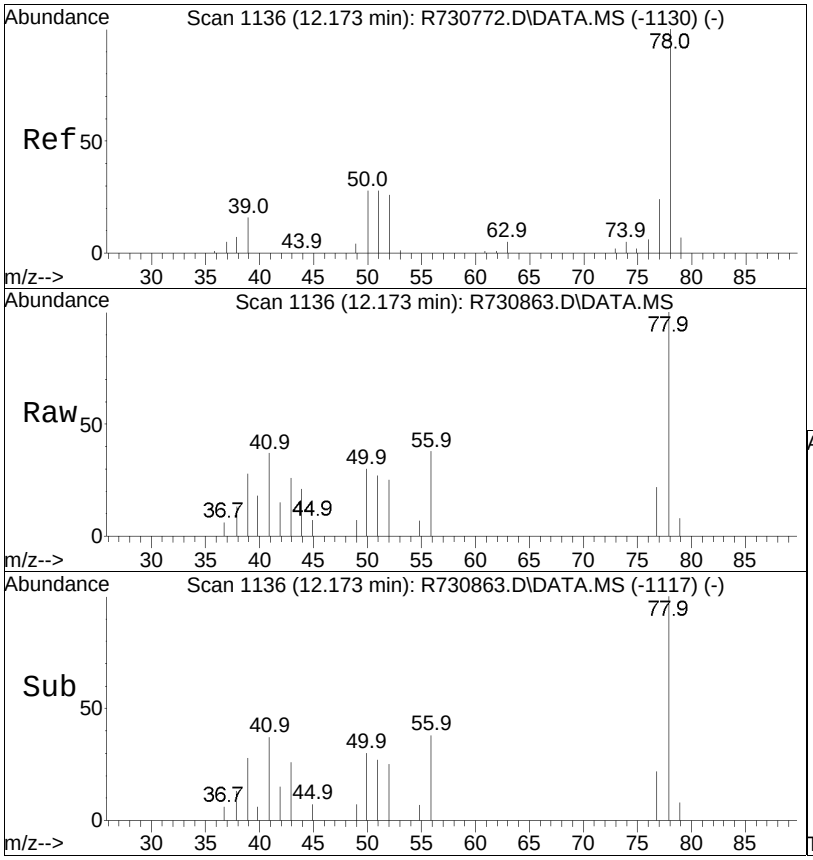


#44
hexane
Concen: 0.27 ppbV
RT: 10.52 min Scan# 962
Delta R.T. 0.000 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 57 Resp: 3957

Ion	Ratio	Lower	Upper
57	100		
43	81.6	259.9	389.9#
86	8.8	8.2	12.4

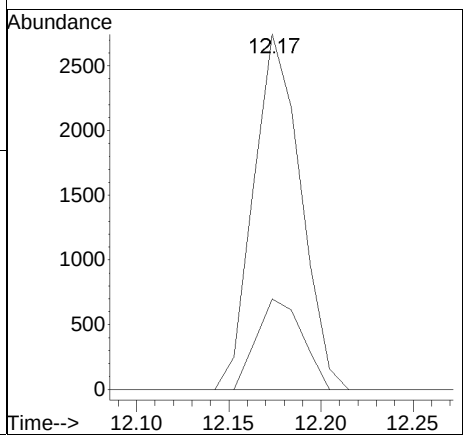


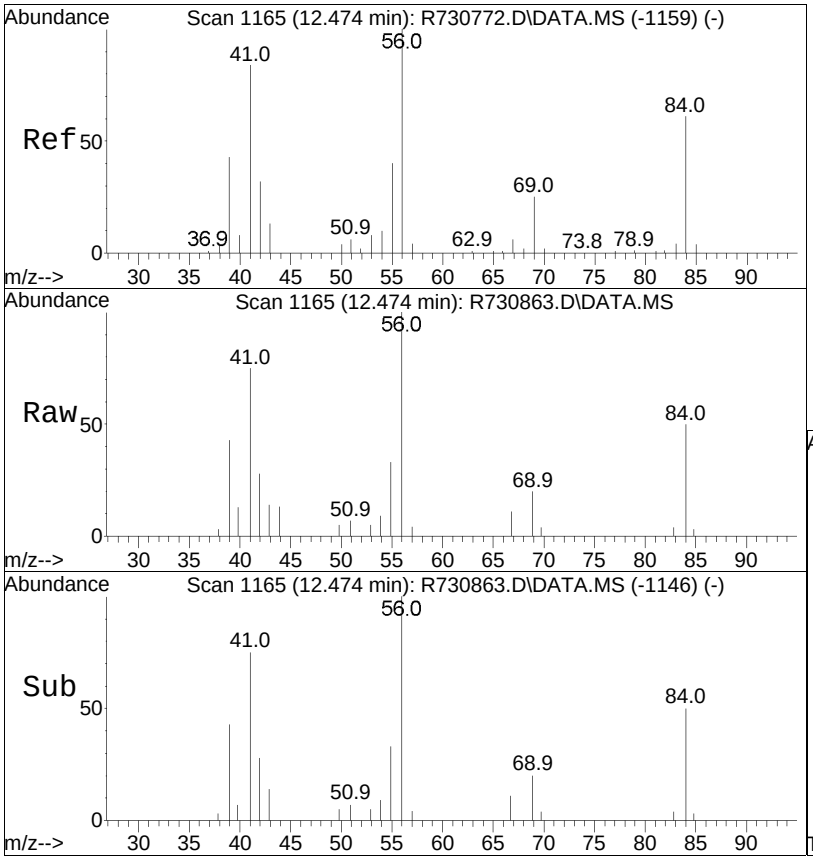


#50
benzene
Concen: 0.25 ppbV
RT: 12.17 min Scan# 1136
Delta R.T. 0.000 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 78 Resp: 4870

Ion	Ratio	Lower	Upper
78	100		
52	25.5	20.8	31.2

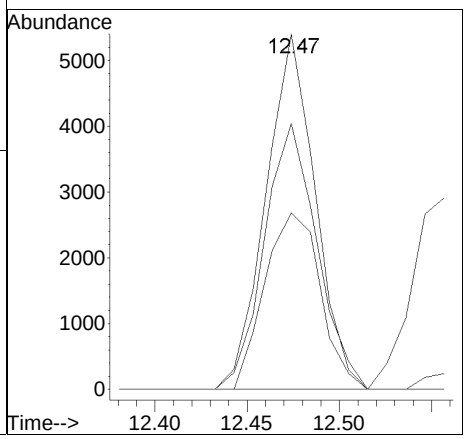


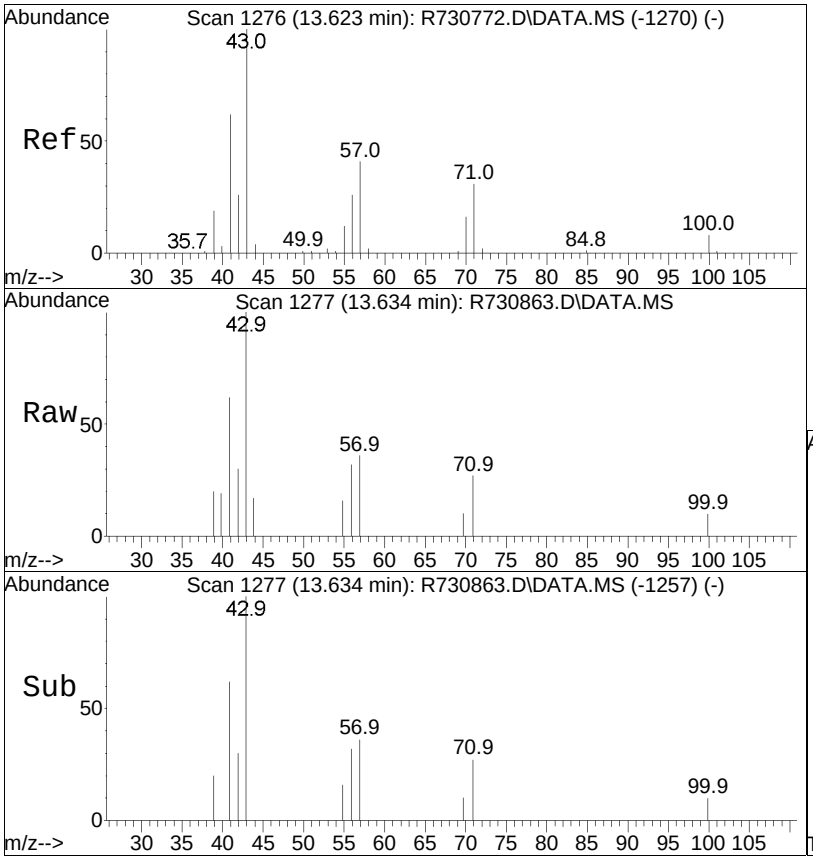


#53
cyclohexane
Concen: 0.80 ppbV
RT: 12.47 min Scan# 1165
Delta R.T. 0.000 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 56 Resp: 10051

Ion	Ratio	Lower	Upper
56	100		
84	49.7	49.6	74.4
41	74.8	67.0	100.4

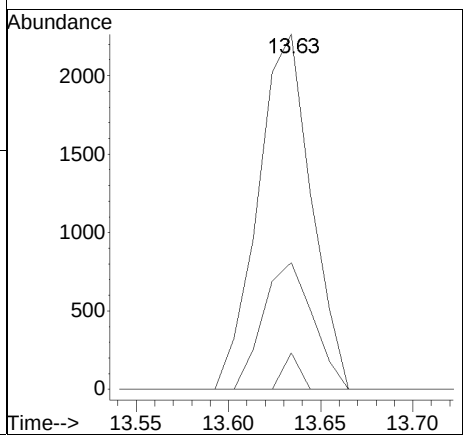


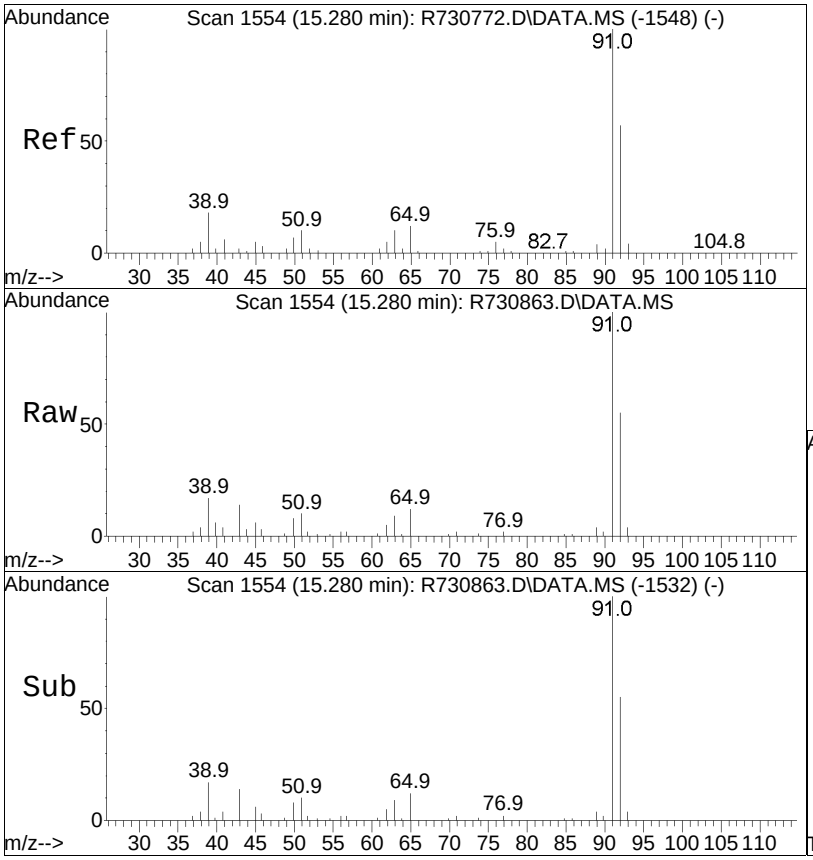


#62
heptane
Concen: 0.18 ppbV
RT: 13.63 min Scan# 1277
Delta R.T. 0.011 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 43 Resp: 4550

Ion	Ratio	Lower	Upper
43	100		
57	35.7	32.9	49.3
100	10.3	6.2	9.2#

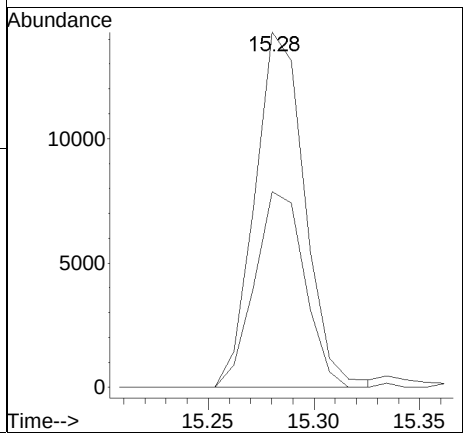


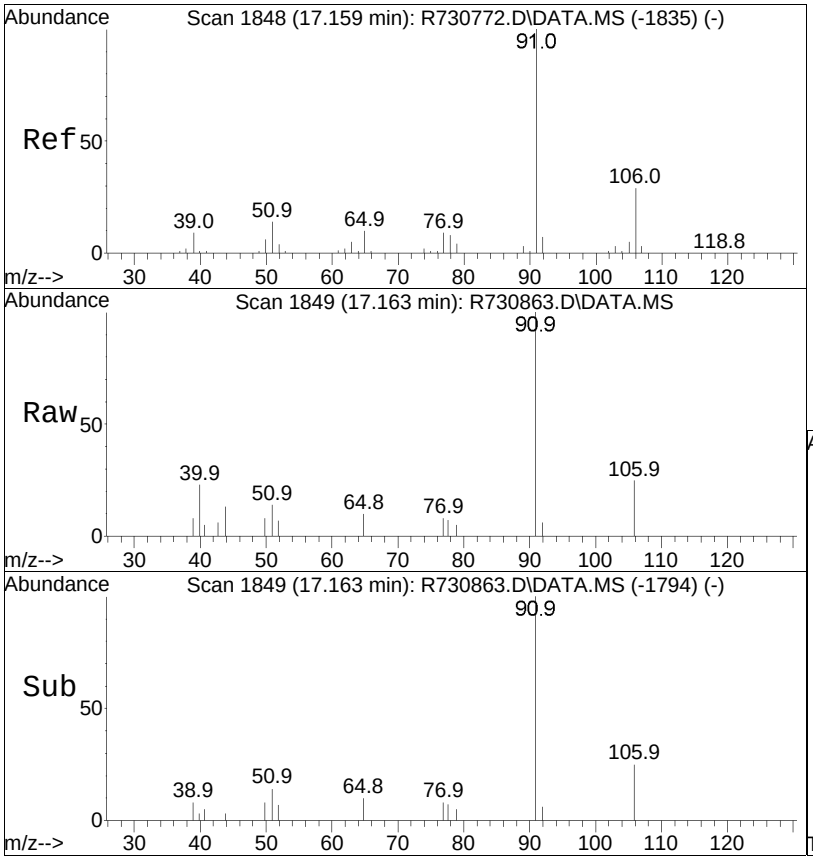


#68
toluene
Concen: 0.82 ppbV
RT: 15.28 min Scan# 1554
Delta R.T. 0.000 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 91 Resp: 23422

Ion	Ratio	Lower	Upper
91	100		
92	55.1	45.4	68.0

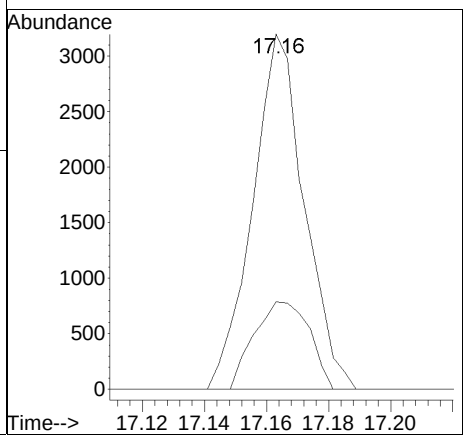


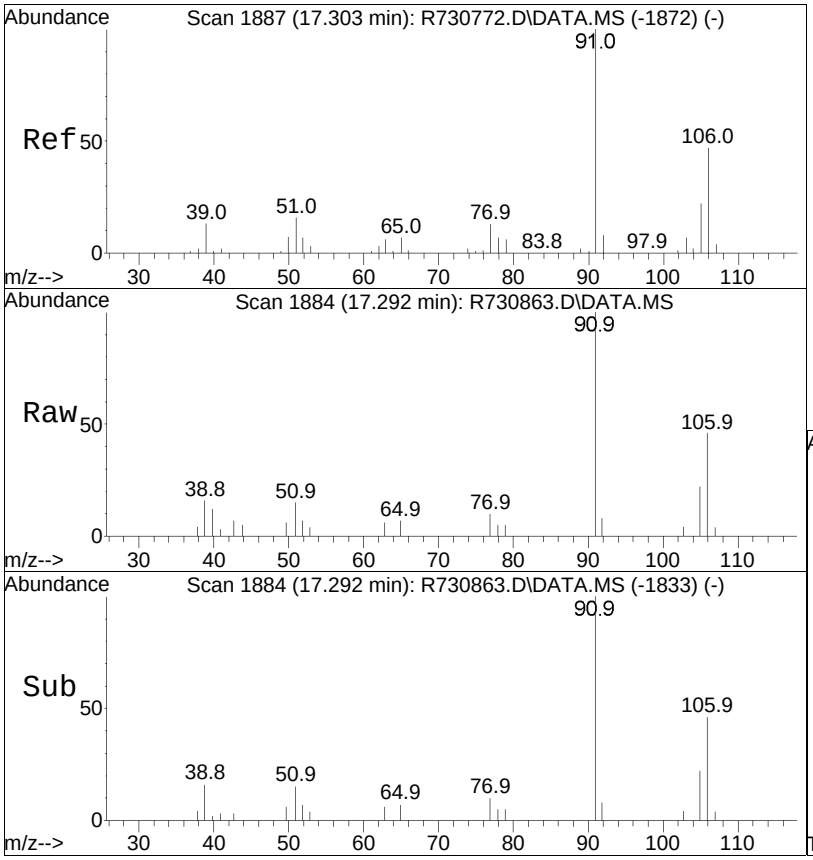


#81
ethylbenzene
Concen: 0.10 ppbV
RT: 17.16 min Scan# 1849
Delta R.T. 0.004 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 91 Resp: 3698

Ion	Ratio	Lower	Upper
91	100		
106	24.6	23.4	35.0

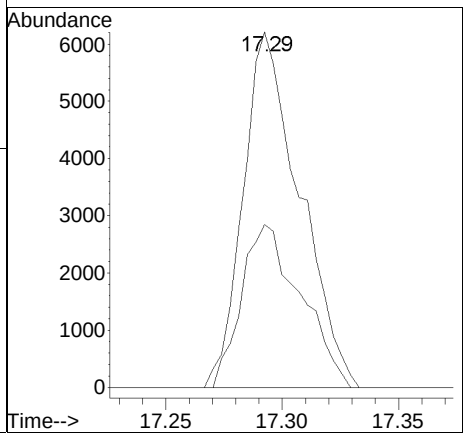


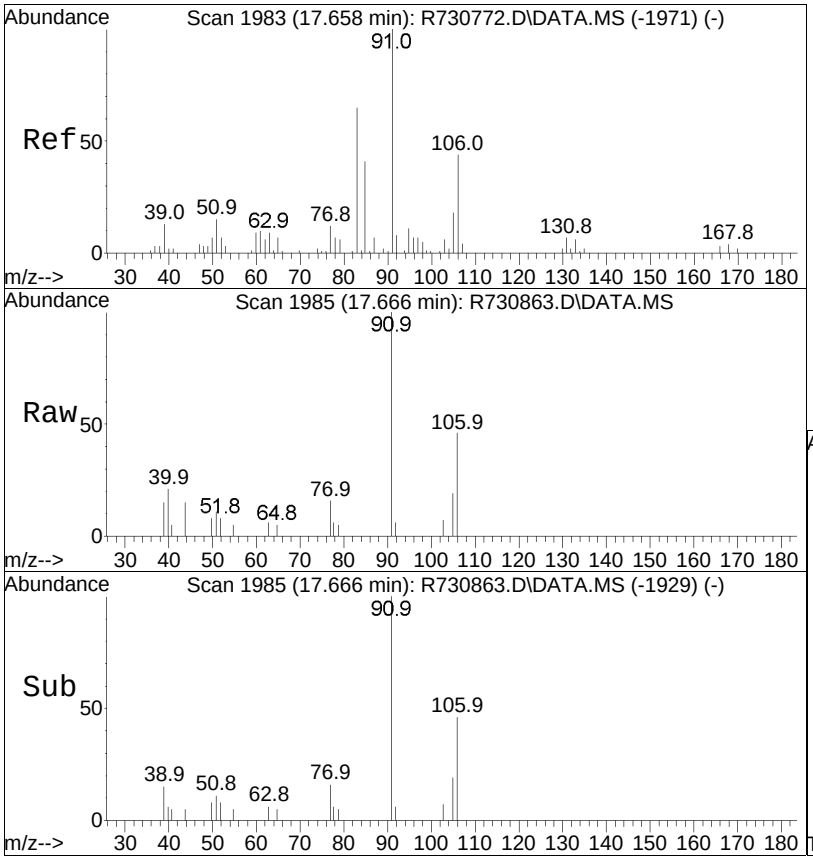


#83
m+p-xylene
Concen: 0.38 ppbV
RT: 17.29 min Scan# 1884
Delta R.T. -0.011 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 91 Resp: 10497

Ion	Ratio	Lower	Upper
91	100		
106	45.9	37.4	56.2

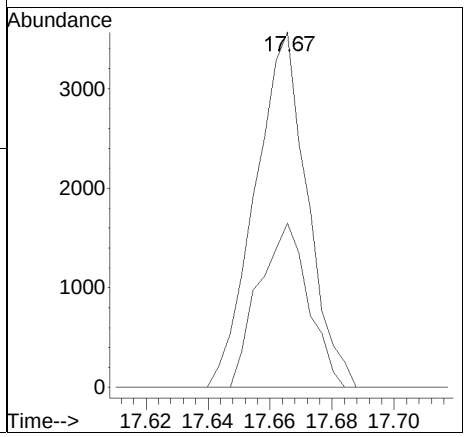


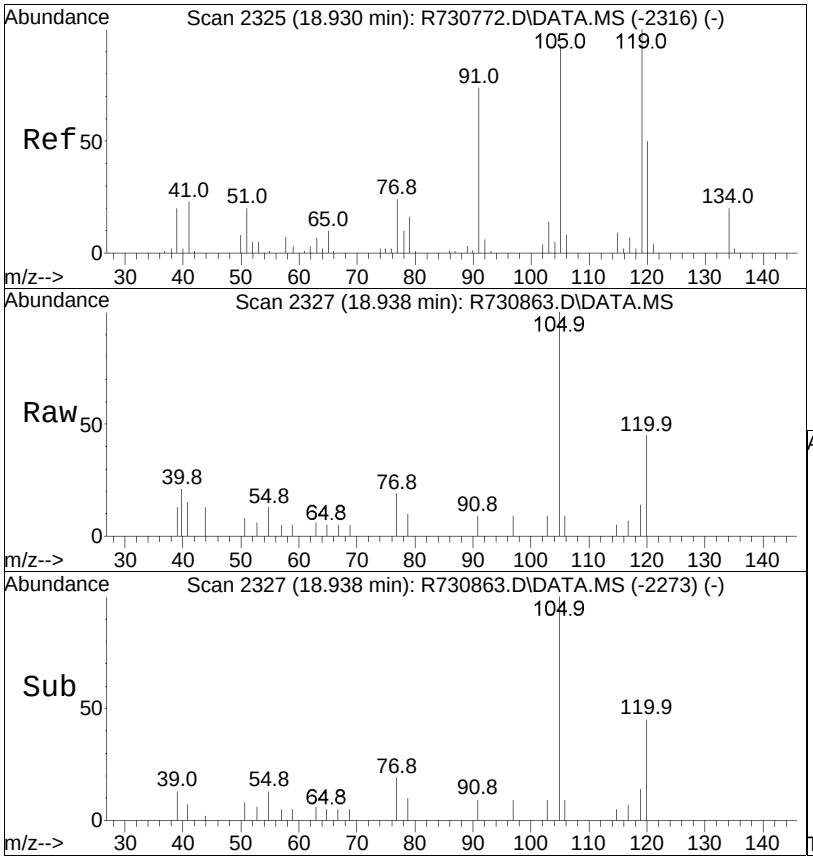


#87
o-xylene
Concen: 0.14 ppbV
RT: 17.67 min Scan# 1985
Delta R.T. 0.008 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion: 91 Resp: 4172

Ion	Ratio	Lower	Upper
91	100		
106	46.2	35.4	53.2

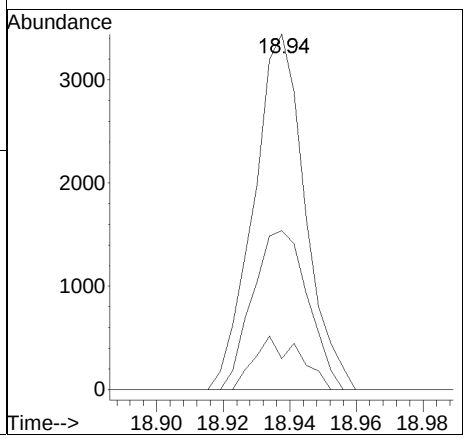


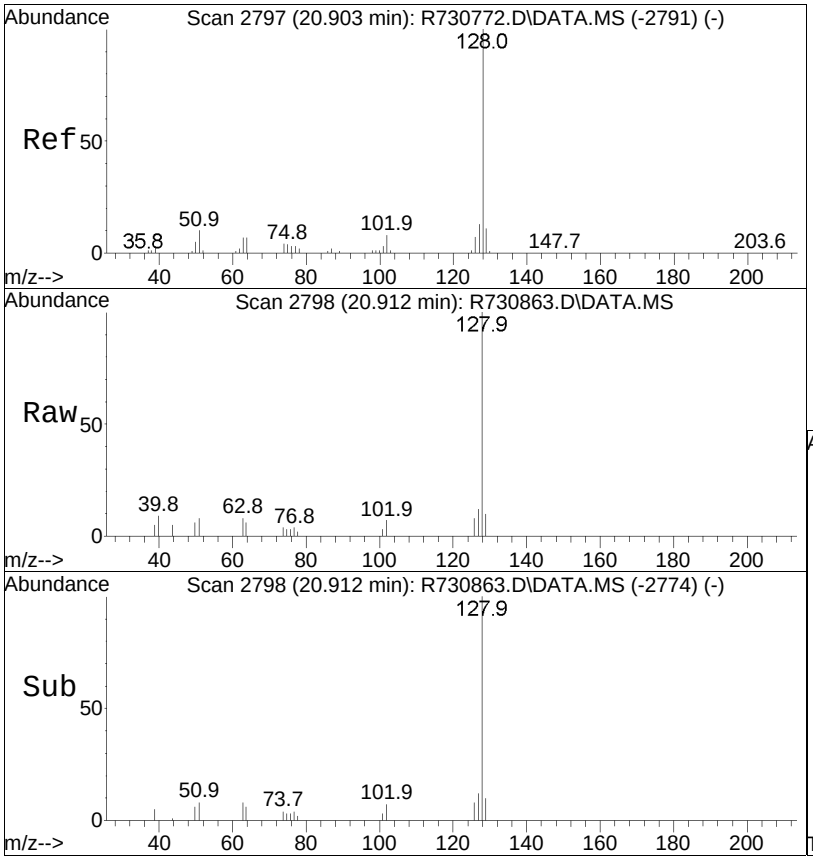


#99
1,2,4-trimethylbenzene
Concen: 0.11 ppbV
RT: 18.94 min Scan# 2327
Delta R.T. 0.008 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion:105 Resp: 3699

Ion	Ratio	Lower	Upper
105	100		
120	44.7	42.5	63.7
91	8.7	63.4	95.2#

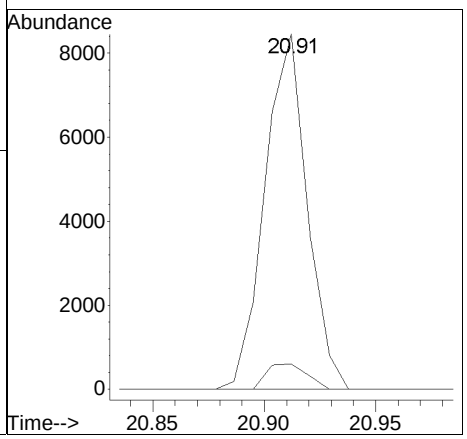




#116
naphthalene
Concen: 0.28 ppbV
RT: 20.91 min Scan# 2798
Delta R.T. 0.009 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion:128 Resp: 11167

Ion	Ratio	Lower	Upper
128	100		
102	7.2	6.7	10.1

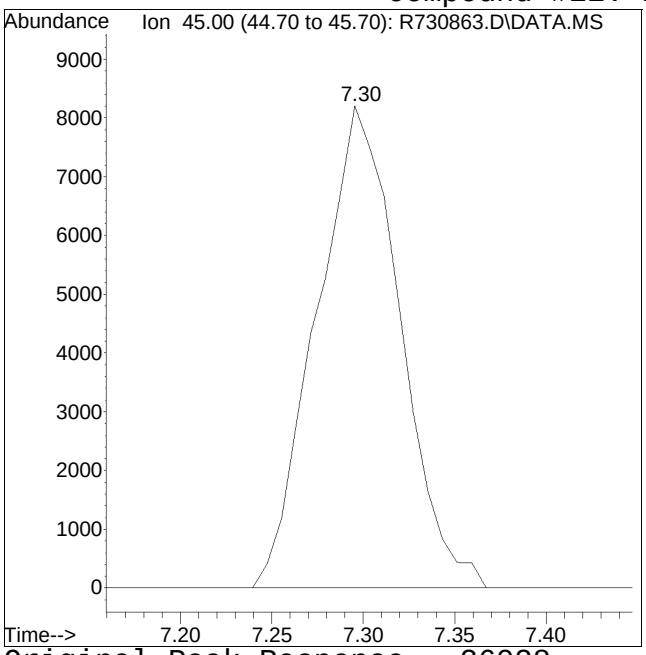


Manual Integration/Negative Proof Report

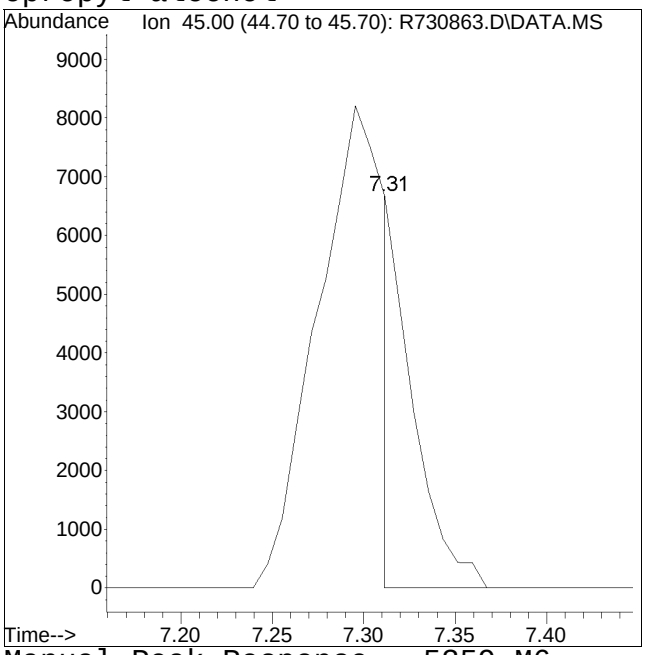
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730863.D
Date Inj'd : 4/1/2015 8:45 pm
Sample : WG772680-5,3,250,250

Method : TALL150328.M
Operator : AIRLAB7:RY
Instrument : Airlab 7
Quant Date : 4/2/2015 6:43 am

Compound #22: isopropyl alcohol



Original Peak Response = 26028



Manual Peak Response = 5359 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, ppbv = C_s x DF
Where:
C_s = Concentration of sample (ppbv)
DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor
$DF = V_{cf} / V_{ci}$
Where:
V_{ci} = volume of air in canister prior to pressurization, L
P =

Conversion of ppbv to ug/m^3
ug/m^3 = (ppbv) * MW / 24.47
Where:
24.47 = molar gas constant (g/g-mole)
MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$V_{ci} = 2.7 * Pl/14.696$

Step 2: Calculate the volume in the canister after pressurization.

$V_{cf} = 2.7 * PF/14.696$

Step 3: Calculate the dilution factor.

$DF = V_{cf} / V_{ci}$

Where:

V_{ci} = volume of air in canister prior to pressurization, L
PI = pressure reading of canister prior to pressurization (psia)
V_{cf} = volume of air in canister after pressurization, L
PF = pressure reading of canister after pressurization (psia)
DF = dilution factor
14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Apr 02 2015, 08:14 pm

Work Group: WG772680 for Department: 3 GC/MS

Created: 01-APR-15 Due: Operator: ry

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1506022-01	VS-DCF	S	TO15-LL	SOIL_VAPOR	DONE	U	0424	0402	S0	Can-6
L1506022-02	VS-MRE	S	TO15-LL	SOIL_VAPOR	DONE	U	0424	0402	S0	Can-6
L1506022-03	VS-DCR	S	TO15-LL	SOIL_VAPOR	DONE	U	0424	0402	S0	Can-6
L1506022-04	VS-FENCE	S	TO15-LL	SOIL_VAPOR	DONE	U	0424	0402	S0	Can-6
L1506022-05	VS-YOGURT	S	TO15-LL	SOIL_VAPOR	DONE	U	0424	0402	S0	Can-6
L1506022-07	VS-WINE STORE	S	TO15-LL	SOIL_VAPOR	DONE	U	0424	0402	S0	Can-6
L1506032-01	SV-4	S	TO15-LL	SOIL_VAPOR	DONE	U	0424	0402	S0	Can-6
L1506032-02	SV-5	S	TO15-LL	SOIL_VAPOR	DONE	U	0424	0402	S0	Can-6
L1506078-01	SS01-032615	S	TO15-LL	SOIL_VAPOR	DONE	U	0425	0402	S0	Can-2.7
L1506078-02	IA01-032615	S	TO15-LL	AIR	DONE	U	0425	0402	S0	Can-2.7
L1506078-03	AA01-032615	S	TO15-LL	AIR	DONE	U	0425	0402	S0	Can-2.7
L1506354-01	CAN 950 SHELF 42	S	TO15-LL	AIR	DONE	U	0430	0408	NC	Can-6
L1506354-02	CAN 1631 SHELF 43	S	TO15-LL	AIR	DONE	U	0430	0408	NC	Can-6
L1506356-01	CAN 474 SHELF 15	S	TO15-LL	AIR	DONE	U	0430	0408	NC	Can-2.7
L1506356-02	CAN 151 SHELF 16	S	TO15-LL	AIR	DONE	U	0430	0408	NC	Can-2.7
WG772680-1	MS BFB Tune Standard	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG772680-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG772680-2	Continuing Calibrati	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG772680-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG772680-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG772680-3	Laboratory Control S	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG772680-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG772680-4	Laboratory Method Bl	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG772680-5	Duplicate Sample	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG772680-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				

Comments:

WG772680-5 L1506078-02

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab7

Internal Standard/Surrogate IDs: CSS13-004 / CSS12-019

Date: 03/28/15

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: MB

Sequence File Name: 150328.S

SIM ICAL# Full Scan ICAL# APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Leak Check Pass ? Y/N
1	BA7032801	TO15_SFS	R730761	250 mL			NA
1	BA7032801	TO15_SFS	R730762	250 mL			NA
1	BA7032801	TO15_SFS	R730763	250 mL			NA
1	TA7032801	TO15_SFS	R730764	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS	R730765	SS15-009D 50ML 0.02	SIM ONLY		NA
5	ITO15-SIMSTD0.04	TO15_SFS	R730766	SS15-009D 100ML 0.04	SIM ONLY		NA
5	ITO15-SIMSTD0.1	TO15_SFS	R730767	SS15-009D 250ML 0.1	SIM ONLY		NA
6	ITO15-SIMSTD0.2	TO15_SFS	R730768	SS15-009C 50ML 0.2			NA
6	ITO15-SIMSTD0.5	TO15_SFS	R730769	SS15-009C 125ML 0.5			NA
6	ITO15-SIMSTD1.0	TO15_SFS	R730770	SS15-009C 250ML 1.0			NA
7	ITO15-SIMSTD5.0	TO15_SFS	R730771	SS15-009B1 125ML 5.0			NA
7	ITO15-SIMSTD10.0	TO15_SFS	R730772	SS15-009B1 250ML 10.0			NA
8	ITO15-SIMSTD20.0	TO15_SFS	R730773	SS15-009A 50ML 20.0			NA
8	ITO15-SIMSTD50.0	TO15_SFS	R730774	SS15-009A 125ML 50.0			NA
8	ITO15-LLSTD100.0	TO15_SFS	R730775	SS15-009A 250ML 100.0	FULL SCAN ONLY		NA
1	BA7032802	TO15_SFS	R730776	250 mL			NA
		Pause					
1	BA7032803	TO15_SFS	R730777	250 mL			NA
2	CTO15-LLSTD010	TO15_SFS	R730778	SS15-003D 250ML 10.0	FULL SCAN ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS	R730779	SS15-003D 125ML 5.0	SIM ICV		NA

Alpha Analytical Air Lab
Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab7

Internal Standard/Surrogate IDs: CSS13-004 / CSS12-019

Date: 04/01/15

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY/MB

Sequence File Name: 150401.S

SIM ICAL# 10835 Full Scan ICAL# 10834 APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Leak Check Pass ? Y/N
1	TA7040101	TO15_SFS	R730850	250 mL	TUNE		NA
2	CA7040101	TO15_SFS	R730851	SS15-009F 250 mL 10.0	LL CC		NA
		Pause					NA
3	CTO15-LLSTD10	TO15_SFS	R730852	SS15-003D 250 mL 10.0	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS	R730853	SS15-003D 125 mL 5.0	SIM LCS		NA
1	BA7040101	TO15_SFS	R730854	250 mL	BLANK FAILED		NA
1	BA7040102	TO15_SFS	R730855	250 mL	BLANK		NA
2	L1506356-01,3,250,250	TO15_SFS	R730856	250 mL		LL	NA
3	L1506356-02,3,250,250	TO15_SFS	R730857	250 mL		LL	NA
4	L1506354-01,3,250,250	TO15_SFS	R730858	250 mL		LL	NA
5	L1506354-02,3,250,250	TO15_SFS	R730859	250 mL	AS SET INCORRECTLY	LL	NA
5	L1506354-02,3,250,250	TO15_SFS	R730860	250 mL		LL	NA
6	L1506078-03,3,250,250	TO15_SFS	R730861	WG772680,ICAL10834		NY/ 7 SIM	NA
7	L1506078-02,3,250,250	TO15_SFS	R730862	WG772680,ICAL10834		NY/ 7 SIM	NA
7	L1506078-02DUP,3,250,250	TO15_SFS	R730863	WG772680,ICAL10834	LL/ SIM DUP	NY/ 7 SIM	Y
8	L1506022-06,3,250,250	TO15_SFS	R730864	WG772682,ICAL10835		SHORT CL LIST	Y
9	L1506022-08,3,250,250	TO15_SFS	R730865	WG772682,ICAL10835		SHORT CL LIST	Y
10	L1506022-01,3,250,250	TO15_SFS	R730866	WG772680,ICAL10834		SHORT CL LIST	Y
11	L1506022-02,3,250,250	TO15_SFS	R730867	WG772680,ICAL10834		SHORT CL LIST	Y
12	L1506022-03,3,250,250	TO15_SFS	R730868	WG772680,ICAL10834		SHORT CL LIST	Y
13	L1506022-04,3,250,250	TO15_SFS	R730869	WG772680,ICAL10834		SHORT CL LIST	Y
14	L1506022-05,3,250,250	TO15_SFS	R730870	WG772680,ICAL10834		SHORT CL LIST	Y

Alpha Analytical Air Lab
Instrument Run Log

15	L1506022-07,3,250,250	TO15_SFS	R730871	WG772680,ICAL10834		SHORT CL LIST	Y
16	L1506032-01,3,250,250	TO15_SFS	R730872	WG772680,ICAL10834		NY	Y
1	L1506032-02D,3,125,250	TO15_SFS	R730873	WG772680,ICAL10834		NY	Y
2	L1506078-01,3,250,250	TO15_SFS	R730874	WG772680,ICAL10834		NY	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

3

LAB DUPLICATE

AIR VOLATILE ORGANICS

Lab Name: Alpha Analytical Labs

SDG No.: L1506022 Matrix: Air

Lab Sample ID : WG772682-5 Injected: 04/01/15 20:45 Lab File ID: R730863

Client Sample ID : IA01-032615

COMPOUND	SAMPLE CONCENTRATION (ppbV)	DUP CONCENTRATION (ppbV)	DUP % RPD	DUP RPD LIMIT
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Carbon tetrachloride	0.071	0.071	0	25
Trichloroethene	0.043	0.045	5	25
Tetrachloroethene	ND	ND	NC	25

* Values outside of QC limits.

COMMENTS: _____

_____

FORM III TO15-SIM

LAB CONTROL SAMPLE RECOVERY
AIR VOLATILE ORGANICS

Lab Name: Alpha Analytical Labs
SDG No.: L1506022 Matrix: Air
Lab Control Sample: WG772682-3LCS Injected: 04/01/15 13:57 Lab File ID: R730853

COMPOUND	SPIKE ADDED ppbV	SAMPLE CONC ppbV	LCS CONC ppbV	LCS % REC	LCSD CONC ppbV	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC.
Vinyl chloride	5	NA	4.31	86	-	-	-	25	70-130
Chloroethane	5	NA	4.23	85	-	-	-	25	70-130
1,1-Dichloroethene	5	NA	4.19	84	-	-	-	25	70-130
trans-1,2-Dichloroethene	5	NA	3.92	78	-	-	-	25	70-130
1,1-Dichloroethane	5	NA	4.25	85	-	-	-	25	70-130
cis-1,2-Dichloroethene	5	NA	4.71	94	-	-	-	25	70-130
1,2-Dichloroethane	5	NA	4.12	82	-	-	-	25	70-130
1,1,1-Trichloroethane	5	NA	4.17	83	-	-	-	25	70-130
Carbon tetrachloride	5	NA	4.28	86	-	-	-	25	70-130
Trichloroethene	5	NA	4.31	86	-	-	-	25	70-130
1,1,2-Trichloroethane	5	NA	4.34	87	-	-	-	25	70-130
Tetrachloroethene	5	NA	4.49	90	-	-	-	25	70-130

* Values outside of QC limits.

COMMENTS: _____

_____

FORM III TO15-SIM

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

SAMPLE NO.

WG772682-4BLANK

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Lab File ID: R730855 Lab Sample ID: WG772682-4

Date Analyzed: 04/01/15 Time Analyzed: 15:25

Instrument ID: AIRLAB7

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	WG772682-3LCS	WG772682-3	R730853	04/01/15 13:57
02	IA01-032615DUP	WG772682-5	R730863	04/01/15 20:45
03	VS-YOGURT IA	L1506022-06	R730864	04/01/15 21:18
04	VS-WINE STORE IA	L1506022-08	R730865	04/01/15 21:50

COMMENTS: _____

FORM IV TO15-SIM LOW

5A
VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Lab File ID: R730764_tune BFB Injection Date: 03/28/15

Instrument ID: AIRLAB7 BFB Injection Time: 14:28

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	26.4
75	30.0 - 66.0% of mass 95	47.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	80.4
175	4.0 - 9.0% of mass 174	5.9 (7.4)1
176	93.0 - 101% of mass 174	77.5 (96.4)1
177	5.0 - 9.0% of mass 176	5.3 (6.8)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0.02	0.02	R730765	03/28/15	14:59
02	0.04	0.04	R730766	03/28/15	15:31
03	0.1	0.1	R730767	03/28/15	16:05
04	0.2	0.2	R730768	03/28/15	16:36
05	0.5	0.5	R730769	03/28/15	17:08
06	1.0	1.0	R730770	03/28/15	17:42
07	5.0	5.0	R730771	03/28/15	18:14
08	10.0	10.0	R730772	03/28/15	18:48
09	20.0	20.0	R730773	03/28/15	19:20
10	50.0	50.0	R730774	03/28/15	19:52
11	ICV Quant	ICV Quant	R730779	03/29/15	10:49

FORM V TO15-SIM

5A
VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Lab File ID: R730850_tune BFB Injection Date: 04/01/15

Instrument ID: AIRLAB7 BFB Injection Time: 11:51

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	8.0 - 40.0% of mass 95	25
75	30.0 - 66.0% of mass 95	47.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	81.5
175	4.0 - 9.0% of mass 174	6.2 (7.7)1
176	93.0 - 101% of mass 174	81.3 (99.7)1
177	5.0 - 9.0% of mass 176	5.6 (6.8)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL	WG772682-2	R730853	04/01/15	13:57
02	WG772682-3LCS	WG772682-3	R730853	04/01/15	13:57
03	WG772682-4BLANK	WG772682-4	R730855	04/01/15	15:25
04	IA01-032615DUP	WG772682-5	R730863	04/01/15	20:45
05	VS-YOGURT IA	L1506022-06	R730864	04/01/15	21:18
06	VS-WINE STORE IA	L1506022-08	R730865	04/01/15	21:50

FORM V TO15-SIM

8A

VOLATILE ORGANICS INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Lab File ID (Standard): R730853 Date Analyzed: 04/01/15

Instrument ID : AIRLAB7 Time Analyzed: 13:57

		IS1		IS2		IS3	
		AREA	RT	AREA	RT	AREA	RT
	24 HOUR STD	156083	10.47	305707	12.55	92101	16.84
	UPPER LIMIT	218516	10.80	427990	12.88	128941	17.17
	LOWER LIMIT	93650	10.14	183424	12.22	55261	16.51
	EPA SAMPLE NO.						
01	WG772682-3LCS	156083	10.47	305707	12.55	92101	16.84
02	WG772682-4BLANK	151335	10.47	391385	12.56	82934	16.84
03	WG772682-5DUP	138378	10.47	255346	12.56	71458	16.84
04	VS-YOGURT IA	141771	10.47	279958	12.55	76395	16.84
05	VS-WINE STORE IA	141705	10.46	362043	12.55	72436	16.84

IS1 = BROMOCHLOROMETHANE
IS2 = 1,4-DIFLUOROBENZENE
IS3 = CHLOROBENZENE-D5

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40 % of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

* Values outside of QC limits.

Determination of Method Detection Limits

Alpha Analytical Inc.
Mansfield, MA

Page 1 of 2	
Analyst:	RY, MM
Date:	3/23, 3/25/13
Instrument ID:	Airlab7
Column ID:	RTX-1
Prep Method:	N/A
Prep Chemist:	N/A

Method: EPA TO-15SIM **2013**

GC/MS **Volatile Organic Compounds** **Air**

Initial Weight/Volume: N/A
Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	3/25/2013	3/25/2013	3/25/2013	3/25/2013	3/25/2013	3/25/2013	3/25/2013	3/25/2013						
No.	Analytes	Target conc. (ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	Mean (ppbV)	Mean Accuracy	Standard Deviation	Calc. MDL (ppbV)	Current RL (ppbV)	Comment
1	propylene	0.02	0.024	0.024	0.023	0.023	0.023	0.020	0.022	0.024	0.023	114%	0.0014	0.0041	0.500	
2	dichlorodifluoromethane	0.01	0.020	0.017	0.020	0.012	0.012	0.012	0.012	0.012	0.015	146%	0.0037	0.0112	0.050	
3	chloromethane	0.02	0.037	0.035	0.038	0.040	0.040	0.038	0.038	0.039	0.038	191%	0.0016	0.0049	0.200	
4	Freon-114	0.01	0.019	0.018	0.021	0.012	0.012	0.012	0.012	0.012	0.015	148%	0.0039	0.0116	0.050	
5	vinyl chloride	0.02	0.020	0.019	0.019	0.020	0.021	0.022	0.020	0.020	0.020	101%	0.0010	0.0030	0.020	
6	1,3-butadiene	0.02	0.019	0.019	0.017	0.017	0.017	0.017	0.018	0.018	0.018	89%	0.0009	0.0027	0.020	
7	bromomethane	0.02	0.022	0.020	0.022	0.020	0.018	0.019	0.019	0.022	0.020	101%	0.0016	0.0047	0.020	
8	chloroethane	0.02	0.022	0.021	0.020	0.020	0.022	0.022	0.021	0.021	0.021	106%	0.0008	0.0025	0.020	
9	ethanol	0.1	0.121	0.134	0.129	0.137	0.139	0.126	0.129	0.137	0.132	132%	0.0063	0.0188	2.500	
10	vinyl bromide	0.02	0.018	0.019	0.018	0.018	0.016	0.017	0.017	0.018	0.018	88%	0.0009	0.0027	0.200	
11	acetone	0.05	0.214	0.157	0.187	0.108	0.108	0.104	0.103	0.104	0.136	271%	0.0444	0.1333	1.000	
12	trichlorofluoromethane	0.01	0.019	0.017	0.020	0.012	0.012	0.012	0.011	0.011	0.014	143%	0.0038	0.0113	0.050	
13	acrylonitrile	0.02	0.017	0.013	0.015	0.014	0.013	0.018	0.015	0.016	0.015	76%	0.0018	0.0054	0.050	
14	1,1-dichloroethene	0.02	0.019	0.019	0.019	0.019	0.020	0.020	0.018	0.018	0.019	95%	0.0008	0.0023	0.020	
15	3-chloropropene	0.02	0.017	0.019	0.018	0.020	0.019	0.018	0.018	0.019	0.019	93%	0.0009	0.0028	0.200	
16	carbon disulfide	0.02	0.018	0.019	0.019	0.019	0.020	0.018	0.019	0.020	0.019	95%	0.0008	0.0023	0.020	
17	Freon 113	0.01	0.020	0.017	0.020	0.011	0.011	0.011	0.011	0.011	0.014	140%	0.0042	0.0127	0.050	
18	Halothane	0.02	0.022	0.018	0.018	0.019	0.019	0.018	0.018	0.019	0.019	94%	0.0014	0.0041	0.020	
19	trans-1,2-dichloroethene	0.01	0.014	0.011	0.014	0.009	0.009	0.010	0.012	0.009	0.011	110%	0.0021	0.0064	0.020	
20	1,1-dichloroethane	0.01	0.014	0.013	0.015	0.009	0.010	0.012	0.012	0.012	0.012	121%	0.0020	0.0059	0.020	
21	MTBE	0.01	0.014	0.011	0.014	0.008	0.011	0.011	0.011	0.011	0.011	114%	0.0019	0.0058	0.020	
22	vinyl acetate	0.02	0.019	0.020	0.019	0.018	0.011	0.019	0.019	0.014	0.017	87%	0.0032	0.0095	0.200	
23	2-butanone	0.02	0.026	0.026	0.025	0.025	0.025	0.026	0.025	0.024	0.025	126%	0.0007	0.0021	0.200	
24	cis-1,2-dichloroethene	0.01	0.011	0.009	0.012	0.011	0.010	0.010	0.011	0.011	0.011	106%	0.0009	0.0027	0.020	
25	Ethyl Acetate	0.02	0.017	0.019	0.019	0.019	0.019	0.001	0.019	0.019	0.017	83%	0.0063	0.0189	0.500	
26	chloroform	0.01	0.010	0.013	0.015	0.011	0.011	0.011	0.010	0.011	0.012	115%	0.0017	0.0051	0.020	
27	Tetrahydrofuran	0.02	0.019	0.019	0.017	0.019	0.019	0.019	0.018	0.019	0.019	93%	0.0007	0.0022	0.200	
28	1,2-dichloroethane	0.02	0.021	0.021	0.022	0.022	0.021	0.020	0.020	0.022	0.021	106%	0.0008	0.0025	0.020	
29	hexane	0.01	0.008	0.010	0.009	0.013	0.013	0.012	0.013	0.012	0.011	113%	0.0020	0.0059	0.200	
30	1,1,1-trichloroethane	0.01	0.009	0.010	0.010	0.010	0.010	0.009	0.010	0.010	0.010	98%	0.0005	0.0014	0.020	
31	benzene	0.01	0.015	0.017	0.016	0.016	0.016	0.015	0.015	0.015	0.016	156%	0.0007	0.0022	0.100	
32	carbon tetrachloride	0.01	0.009	0.009	0.009	0.010	0.008	0.009	0.008	0.009	0.009	89%	0.0006	0.0019	0.020	
33	cyclohexane	0.01	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.013	131%	0.0004	0.0011	0.200	
34	1,2-dichloropropane	0.01	0.014	0.013	0.011	0.012	0.013	0.014	0.012	0.013	0.013	128%	0.0010	0.0031	0.020	
35	bromodichloromethane	0.01	0.010	0.010	0.009	0.009	0.009	0.009	0.009	0.009	0.009	93%	0.0005	0.0014	0.020	
36	1,4-dioxane	0.01	0.015	0.017	0.016	0.015	0.015	0.012	0.013	0.015	0.015	148%	0.0016	0.0047	0.100	
37	trichloroethene	0.01	0.011	0.011	0.010	0.011	0.011	0.011	0.010	0.011	0.011	108%	0.0005	0.0014	0.020	
38	heptane	0.01	0.013	0.013	0.013	0.014	0.012	0.012	0.014	0.013	0.013	130%	0.0008	0.0023	0.200	
39	cis-1,3-dichloropropene	0.01	0.009	0.009	0.009	0.009	0.008	0.009	0.009	0.008	0.009	88%	0.0005	0.0014	0.020	
40	4-methyl-2-pentanone	0.01	0.010	0.011	0.011	0.010	0.009	0.010	0.010	0.009	0.010	100%	0.0008	0.0023	0.200	

Comments:

Technical Director: JR Date Effective: 3-26-13

Determination of Method Detection Limits

Alpha Analytical Inc.
Mansfield, MA

Page 2 of 2	
Analyst:	RY, MM
Date:	3/23, 3/25/13
Instrument ID:	Airlab7
Column ID:	RTX-1
Prep Method:	N/A
Prep Chemist:	N/A

Method: EPA TO-15SIM **2013**
GC/MS **Volatile Organic Compounds** **Air**

Initial Weight/Volume: N/A
Final Volume: N/A

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	3/25/2013	3/25/2013	3/25/2013	3/25/2013	3/25/2013	3/25/2013	3/25/2013	3/25/2013						
No.	Analytes	Target conc. (ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	Mean (ppbV)	Mean Accuracy	Standard Deviation	Calc. MDL (ppbV)	Current RL (ppbV)	Comment
41	trans-1,3-dichloropropene	0.01	0.008	0.009	0.008	0.008	0.009	0.008	0.008	0.008	0.008	83%	0.0005	0.0014	0.020	
42	1,1,2-trichloroethane	0.01	0.011	0.010	0.011	0.011	0.010	0.010	0.010	0.010	0.010	104%	0.0005	0.0016	0.020	
43	toluene	0.01	0.013	0.015	0.015	0.014	0.013	0.014	0.015	0.014	0.014	141%	0.0008	0.0025	0.020	
44	2-hexanone	0.01	0.009	0.011	0.010	0.011	0.009	0.009	0.009	0.009	0.010	96%	0.0009	0.0027	0.200	
45	dibromochloromethane	0.01	0.006	0.007	0.007	0.007	0.006	0.006	0.006	0.007	0.007	65%	0.0005	0.0016	0.020	
46	1,2-dibromoethane	0.01	0.007	0.008	0.009	0.008	0.008	0.008	0.008	0.008	0.008	80%	0.0005	0.0016	0.020	
47	tetrachloroethene	0.01	0.008	0.009	0.009	0.009	0.008	0.009	0.009	0.009	0.009	88%	0.0005	0.0014	0.020	
48	1,1,1,2-tetrachloroethane	0.01	0.008	0.009	0.009	0.008	0.010	0.008	0.011	0.011	0.009	93%	0.0013	0.0038	0.020	
49	chlorobenzene	0.01	0.010	0.011	0.011	0.011	0.010	0.010	0.011	0.011	0.011	106%	0.0005	0.0016	0.020	
50	ethylbenzene	0.01	0.009	0.010	0.010	0.010	0.009	0.009	0.010	0.010	0.010	96%	0.0005	0.0016	0.020	
51	m+p-xylene	0.02	0.018	0.020	0.021	0.020	0.018	0.019	0.020	0.020	0.020	98%	0.0011	0.0032	0.020	
52	bromoform	0.01	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	51%	0.0004	0.0011	0.020	
53	styrene	0.01	0.008	0.008	0.008	0.008	0.007	0.007	0.008	0.008	0.008	78%	0.0005	0.0014	0.020	
54	1,1,2,2-tetrachloroethane	0.01	0.008	0.010	0.009	0.010	0.008	0.009	0.010	0.010	0.009	93%	0.0009	0.0027	0.020	
55	o-xylene	0.01	0.010	0.011	0.011	0.011	0.010	0.010	0.011	0.010	0.011	105%	0.0005	0.0016	0.020	
56	isopropylbenzene	0.01	0.004	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	50%	0.0005	0.0016	0.200	
57	4-ethyl toluene	0.01	0.007	0.008	0.008	0.008	0.007	0.007	0.008	0.008	0.008	76%	0.0005	0.0016	0.020	
58	tert-butylbenzene	0.01	0.008	0.008	0.008	0.009	0.007	0.008	0.008	0.008	0.008	80%	0.0005	0.0016	0.020	
59	1,2,4-trimethylbenzene	0.01	0.007	0.009	0.009	0.009	0.008	0.008	0.008	0.009	0.008	84%	0.0007	0.0022	0.020	
60	Benzyl Chloride	0.01	0.005	0.003	0.004	0.004	0.004	0.003	0.004	0.004	0.004	39%	0.0006	0.0019	0.020	
61	1,3-dichlorobenzene	0.01	0.008	0.009	0.009	0.008	0.007	0.008	0.008	0.008	0.008	81%	0.0006	0.0019	0.020	
62	1,4-dichlorobenzene	0.01	0.009	0.009	0.008	0.009	0.007	0.008	0.008	0.008	0.008	83%	0.0007	0.0021	0.020	
63	sec-butylbenzene	0.01	0.007	0.008	0.009	0.008	0.008	0.008	0.008	0.009	0.008	81%	0.0006	0.0019	0.200	
64	p-isopropyltoluene	0.01	0.007	0.008	0.008	0.008	0.007	0.007	0.008	0.008	0.008	76%	0.0005	0.0016	0.200	
65	1,2-dichlorobenzene	0.01	0.008	0.009	0.008	0.008	0.007	0.007	0.008	0.008	0.008	79%	0.0006	0.0019	0.020	
66	n-butylbenzene	0.01	0.006	0.008	0.008	0.007	0.007	0.007	0.007	0.007	0.007	71%	0.0006	0.0019	0.200	
67	1,2,4-trichlorobenzene	0.01	0.009	0.008	0.007	0.007	0.005	0.005	0.006	0.005	0.007	65%	0.0015	0.0045	0.050	
68	naphthalene	0.01	0.010	0.009	0.008	0.007	0.006	0.006	0.005	0.006	0.007	71%	0.0017	0.0052	0.050	
69	1,2,3-trichlorobenzene	0.01	0.008	0.008	0.007	0.006	0.005	0.005	0.005	0.004	0.006	60%	0.0015	0.0045	0.050	
70	hexachlorobutadiene	0.01	0.007	0.008	0.008	0.007	0.006	0.006	0.006	0.006	0.007	68%	0.0009	0.0027	0.050	

Table (MDL)		Data File	MDL 01	MDL 02	MDL 03	MDL 04	MDL 05	MDL 06	MDL 07	MDL 08	T value used for calculating MDL: 2.998					
		Date Analyzed	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013	3/23/2013						
No.	Analytes	Target conc. (ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	(ppbV)	Mean (ppbV)	Mean Accuracy	Standard Deviation	Calc. MDL (ppbV)	Current RL (ppbV)	Comment
71	isopropyl alcohol	0.1	0.218	0.217	0.205	0.211	0.208	0.199	0.207	0.199	0.208	208%	0.0072	0.0216	0.500	
72	methylene chloride	0.1	0.209	0.209	0.207	0.208	0.205	0.203	0.207	0.205	0.207	207%	0.0021	0.0064	0.500	

Comments: _____

Technical Director: _____ Date Effective: 3-26-13

Volatiles Sample Data

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-06	Date Collected	: 03/25/15 17:22
Client ID	: VS-YOGURT IA	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 21:18
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: RY
Lab File ID	: R730864	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	0.042	0.020	--	0.167	0.079	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	0.043	0.020	--	0.231	0.107	--	
127-18-4	Tetrachloroethene	5.87	0.020	--	39.8	0.136	--	
540-59-0	1,2-Dichloroethene (total)	0.042	0.020	--	0.167	0.079	--	

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-08	Date Collected	: 03/25/15 18:26
Client ID	: VS-WINE STORE IA	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 21:50
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: RY
Lab File ID	: R730865	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.488	0.020	--	3.31	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: WG772682-4	Date Collected	: NA
Client ID	: WG772682-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/01/15 15:25
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: RY
Lab File ID	: R730855	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-00-3	Chloroethane	ND	0.020	--	ND	0.053	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-34-3	1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: WG772682-5	Date Collected	: 03/26/15 16:46
Client ID	: IA01-032615DUP	Date Received	: 03/27/15
Sample Location	:	Date Analyzed	: 04/01/15 20:45
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: RY
Lab File ID	: R730863	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.071	0.020	--	0.447	0.126	--	
79-01-6	Trichloroethene	0.045	0.020	--	0.242	0.107	--	
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730864.D
Acq On : 1 Apr 2015 9:18 pm
Operator : AIRLAB7:RY
Sample : L1506022-06,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 09:39:22 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401SIM\R730853.D
Sub List : 5Cl+1,1-DCE - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	141771	10.000	ppbV	0.00
Standard Area = 156083			Recovery =		90.83%	
32) 1,4-difluorobenzene	12.55	114	279958	10.000	ppbV	0.00
Standard Area = 305707			Recovery =		91.58%	
49) chlorobenzene-D5	16.84	54	76395	10.000	ppbV	0.00
Standard Area = 92101			Recovery =		82.95%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	5.37		0	N.D.		
16) 1,1-dichloroethene	7.90		0	N.D.		
22) trans-1,2-dichloroethene	9.14	61	774	0.042	ppbV	91
27) cis-1,2-dichloroethene	0.00		0	N.D.	d	
42) trichloroethene	13.31	130	808	0.043	ppbV	97
55) tetrachloroethene	16.31	166	117394	5.872	ppbV #	90

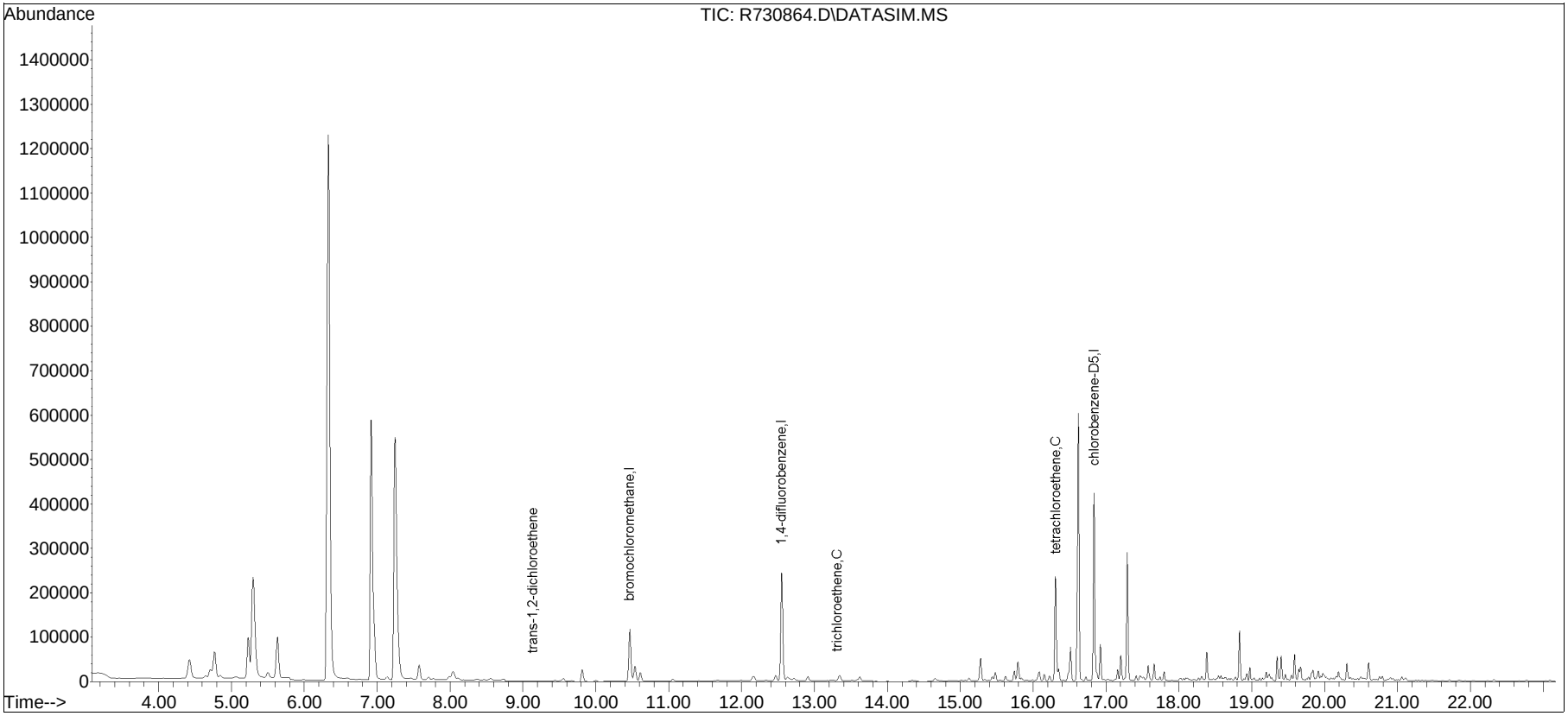
(#) = qualifier out of range (m) = manual integration (+) = signals summed

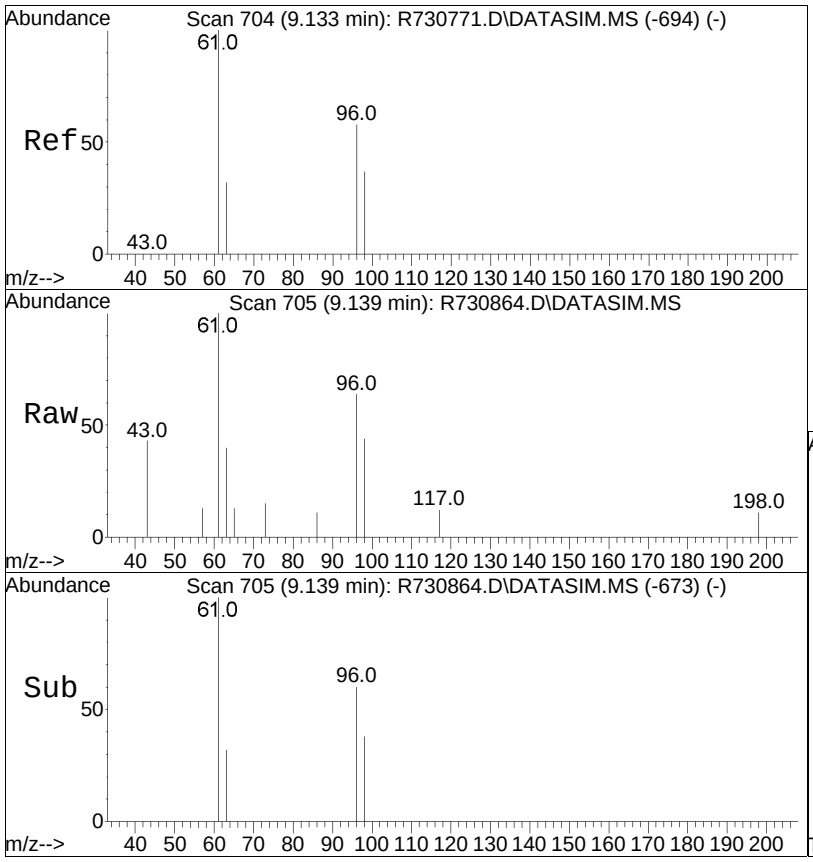
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730864.D
Acq On : 1 Apr 2015 9:18 pm
Operator : AIRLAB7:RY
Sample : L1506022-06,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 09:39:22 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Sub List : 5Cl+1,1-DCE - .ta\Airlab7\2015\150401SIM\R730853.D

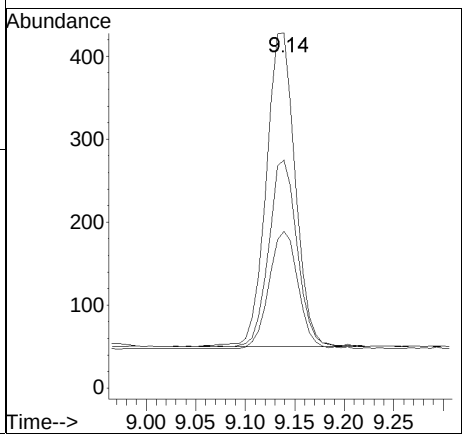


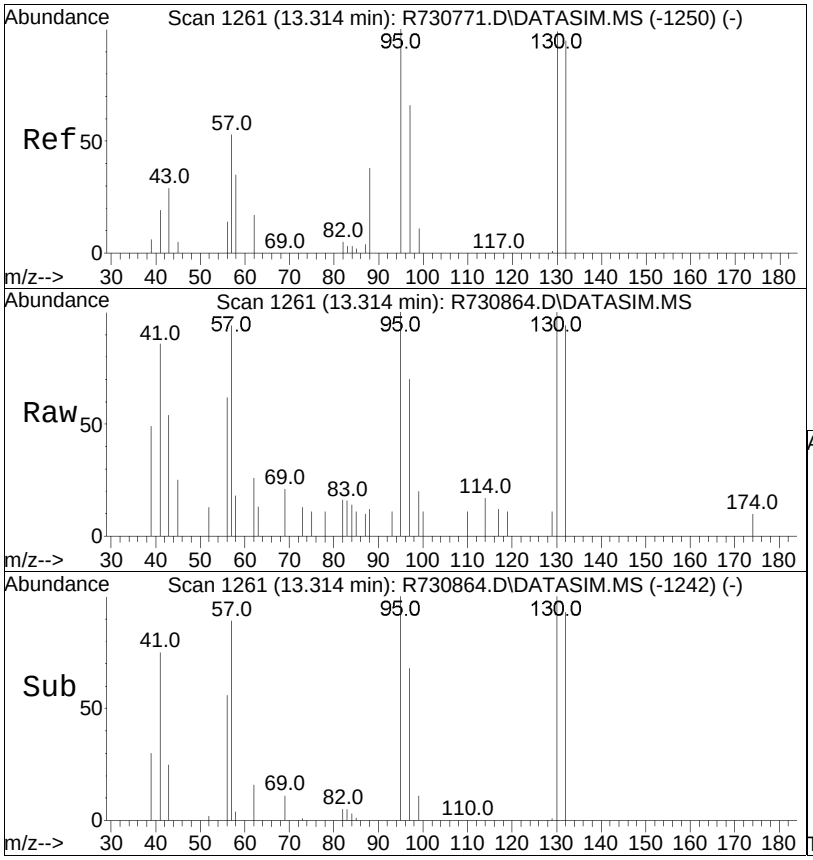


#22
trans-1,2-dichloroethene
Concen: 0.04 ppbV
RT: 9.14 min Scan# 705
Delta R.T. 0.006 min
Lab File: R730864.D
Acq: 1 Apr 2015 9:18 pm

Tgt Ion: 61 Resp: 774

Ion	Ratio	Lower	Upper
61	100		
96	64.3	46.6	69.8
98	44.2	29.9	44.9

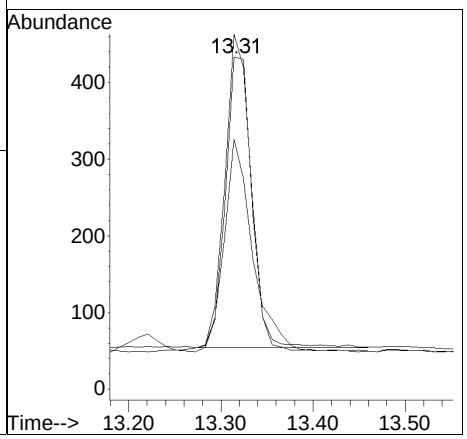


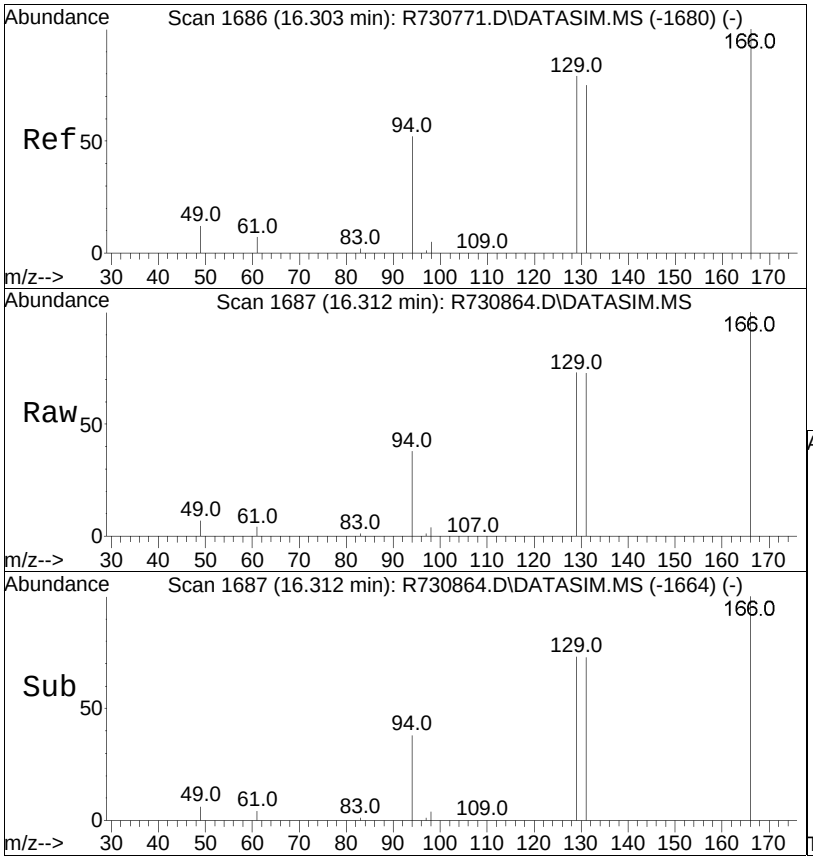


#42
trichloroethene
Concen: 0.04 ppbV
RT: 13.31 min Scan# 1261
Delta R.T. -0.000 min
Lab File: R730864.D
Acq: 1 Apr 2015 9:18 pm

Tgt Ion:130 Resp: 808

Ion	Ratio	Lower	Upper
130	100		
132	93.5	76.7	115.1
97	70.4	53.2	79.8

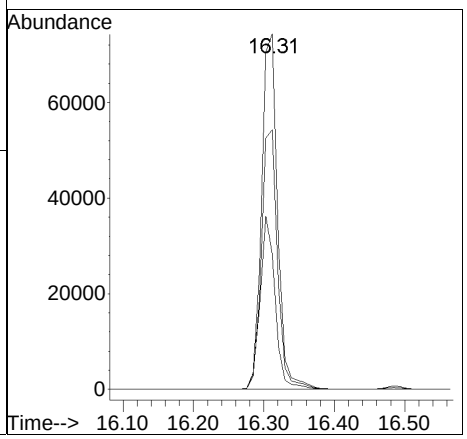




#55
tetrachloroethene
Concen: 5.87 ppbV
RT: 16.31 min Scan# 1687
Delta R.T. 0.009 min
Lab File: R730864.D
Acq: 1 Apr 2015 9:18 pm

Tgt Ion:166 Resp: 117394

Ion	Ratio	Lower	Upper
166	100		
131	73.1	60.1	90.1
94	38.1	41.7	62.5#



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TSIM150328.M
Data File	: R730864.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 9:18 pm	Instrument	: Airlab 7
Sample	: L1506022-06,3,250,250	Quant Date	: 4/2/2015 6:38 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730865.D
Acq On : 1 Apr 2015 9:50 pm
Operator : AIRLAB7:RY
Sample : L1506022-08,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 02 09:39:39 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401SIM\R730853.D
Sub List : 5Cl+1,1-DCE - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.46	49	141705	10.000	ppbV	0.00
Standard Area = 156083			Recovery = 90.79%			
32) 1,4-difluorobenzene	12.55	114	362043	10.000	ppbV	0.00
Standard Area = 305707			Recovery = 118.43%			
49) chlorobenzene-D5	16.84	54	72436	10.000	ppbV	0.00
Standard Area = 92101			Recovery = 78.65%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	5.36		0	N.D.		
16) 1,1-dichloroethene	0.00		0	N.D.	d	
22) trans-1,2-dichloroethene	9.13		0	N.D.		
27) cis-1,2-dichloroethene	0.00		0	N.D.	d	
42) trichloroethene	13.31		0	N.D.		
55) tetrachloroethene	16.31	166	9244	0.488	ppbV #	92

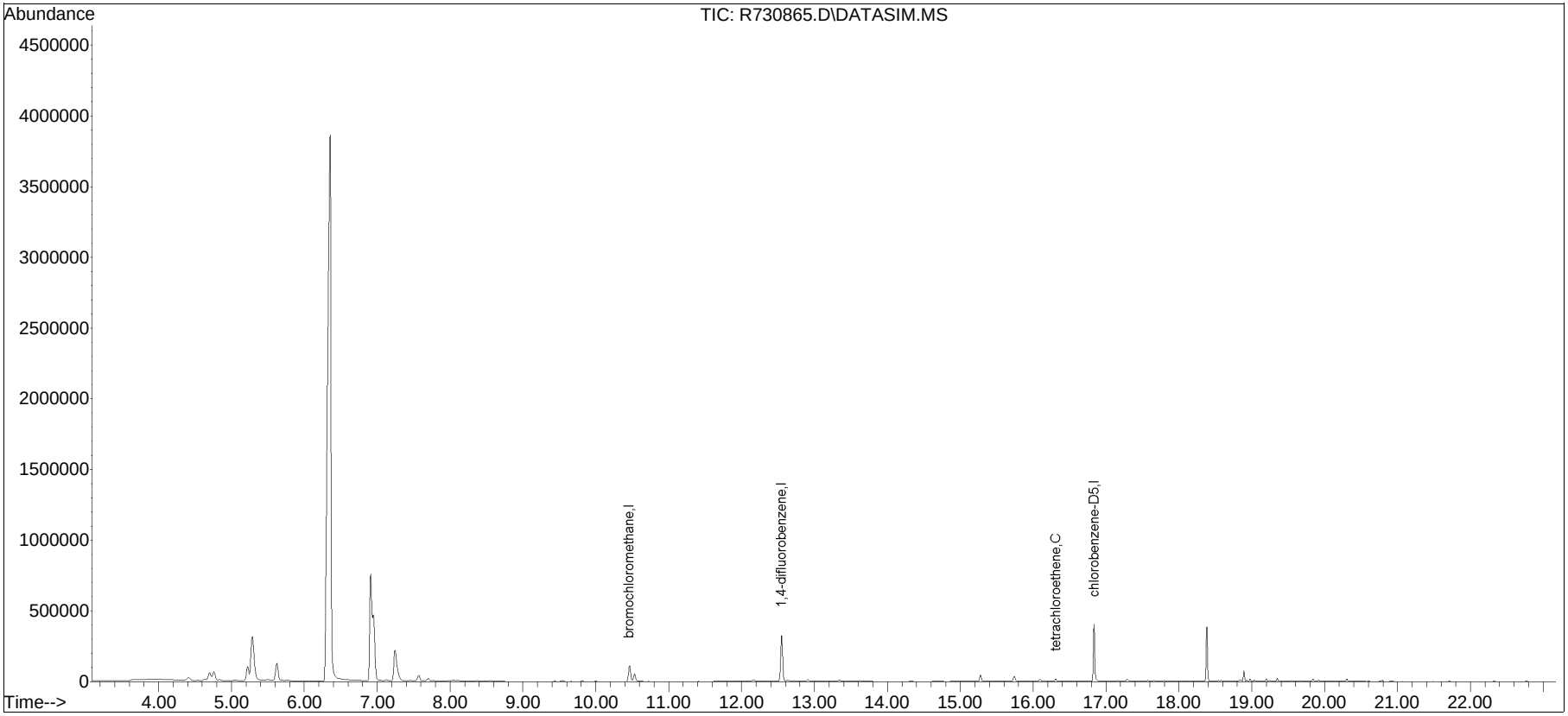
(#) = qualifier out of range (m) = manual integration (+) = signals summed

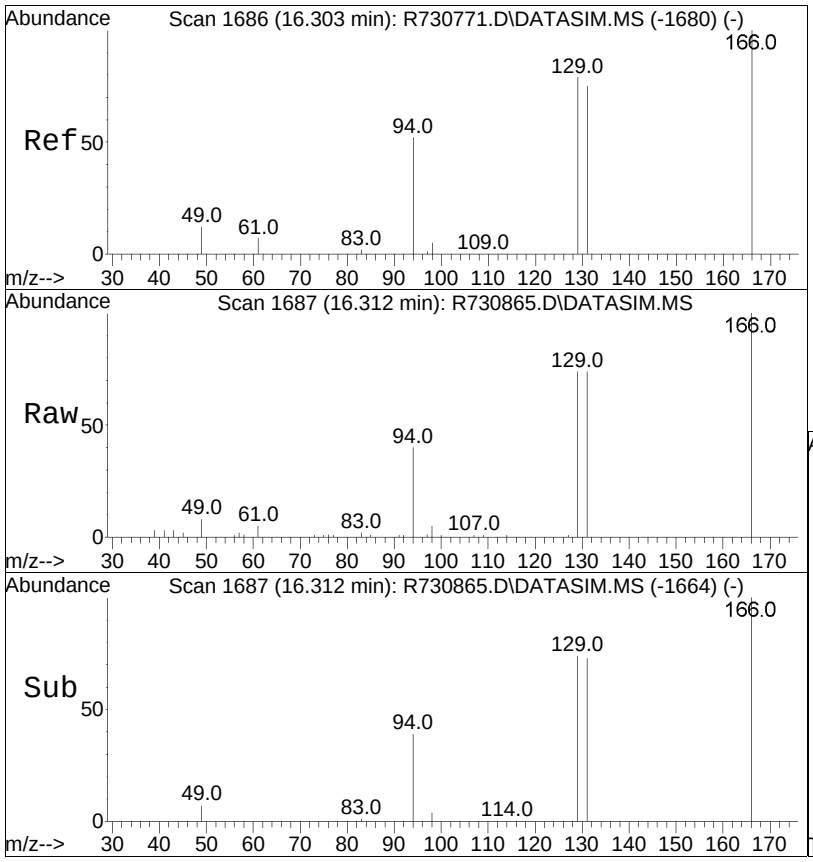
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730865.D
Acq On : 1 Apr 2015 9:50 pm
Operator : AIRLAB7:RY
Sample : L1506022-08,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 02 09:39:39 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Sub List : 5Cl+1,1-DCE - .ta\Airlab7\2015\150401SIM\R730853.D

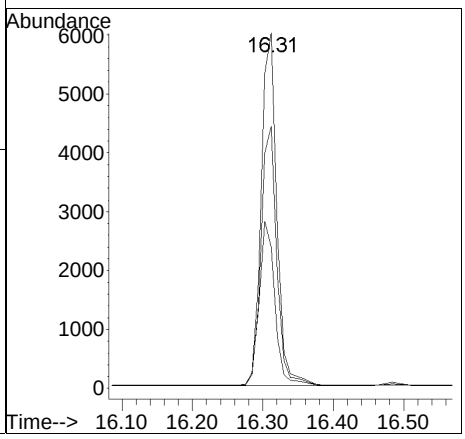




#55
tetrachloroethene
Concen: 0.49 ppbV
RT: 16.31 min Scan# 1687
Delta R.T. 0.009 min
Lab File: R730865.D
Acq: 1 Apr 2015 9:50 pm

Tgt Ion:166 Resp: 9244

Ion	Ratio	Lower	Upper
166	100		
131	73.7	60.1	90.1
94	39.8	41.7	62.5#



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TSIM150328.M
Data File	: R730865.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 9:50 pm	Instrument	: Airlab 7
Sample	: L1506022-08,3,250,250	Quant Date	: 4/2/2015 6:39 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

VOLATILE ORGANICS ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Instrument ID: AIRLAB7 Calibration Date(s): 03/28/15 03/28/15

Calibration Times: 14:59 19:52

Calibration Files

0.02=R730765.D 0.04=R730766.D 0.1 =R730767.D 0.2 =R730768.D 0.5 =R730769.D 1.0 =R730770.D

5.0 =R730771.D 10.0=R730772.D 20.0=R730773.D 50.0=R730774.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		propylene				0.946	1.027	0.957	0.949	0.934	0.996	0.994	0.886	0.9612	4.56
3)		dichlorodifluoromethane	1.899	1.434	1.399	1.725	1.485	1.473	1.439	1.597	1.541	1.199	1.5191	12.57
4)	C	chloromethane			1.208	1.008	1.071	0.977	0.943	0.929	0.914	0.920	0.836	0.9784	11.06
5)		Freon-114	2.452	2.226	2.162	2.405	2.226	2.189	2.114	2.149	2.042	1.474	2.1439	12.42
6)	C	vinyl chloride	0.873	0.810	0.762	0.860	0.814	0.786	0.793	0.792	0.801	0.741	0.8033	4.98
7)	C	1,3-butadiene	0.745	0.682	0.644	0.715	0.671	0.658	0.678	0.681	0.686	0.627	0.6788	4.91
8)	C	bromomethane	0.810	0.771	0.738	0.793	0.735	0.711	0.712	0.698	0.719	0.675	0.7362	5.85
9)	C	chloroethane	0.429	0.378	0.353	0.401	0.368	0.363	0.359	0.355	0.357	0.332	0.3694	7.41
10)		ethanol				0.820	0.886	0.840	0.825	0.855	0.848	0.845	0.725	0.8304	5.66
11)	C	vinyl bromide	0.818	0.748	0.703	0.806	0.757	0.735	0.744	0.740	0.753	0.710	0.7515	4.85
12)		acetone				1.821	1.931	1.773	1.722	1.670	1.637	1.658	1.433	1.7057	8.64
13)		trichlorofluoromethane	2.655	2.449	2.367	2.665	2.473	2.415	2.397	2.338	2.352	2.159	2.4268	6.16
14)		isopropyl alcohol					1.833	1.772	1.791	1.797	1.829	1.671	1.7820	3.32
15)	C	acrylonitrile	0.787	0.730	0.660	0.744	0.690	0.680	0.688	0.688	0.703	0.655	0.7025	5.75
16)	C	1,1-dichloroethene	1.571	1.408	1.365	1.532	1.426	1.388	1.394	1.385	1.405	1.298	1.4170	5.59
17)	C	methylene chloride					1.574	1.421	1.313	1.260	1.265	1.150	1.3305	11.13
18)	C	3-chloropropene				1.507	1.407	1.392	1.424	1.417	1.455	1.328	1.4186	3.90
19)	C	carbon disulfide			2.298	2.036	2.227	2.057	2.035	2.071	2.066	2.111	1.984	2.0985	4.80
20)		Freon 113	1.855	1.704	1.656	1.870	1.733	1.684	1.670	1.633	1.644	1.521	1.6971	6.10
21)		Halothane	1.408	1.332	1.241	1.419	1.331	1.299	1.296	1.285	1.346	1.282	1.3238	4.23
22)		trans-1,2-dichloroethene	1.394	1.291	1.235	1.404	1.306	1.285	1.294	1.278	1.305	1.213	1.3006	4.61
23)	C	1,1-dichloroethane	1.676	1.519	1.453	1.654	1.540	1.503	1.505	1.482	1.500	1.388	1.5218	5.67
24)	C	MTBE	2.010	1.912	1.816	2.062	1.927	1.892	1.955	1.949	2.003	1.878	1.9404	3.71
25)	C	vinyl acetate				1.469	1.643	1.532	1.462	1.699	1.792	2.078	2.103	1.7222	14.74
26)	C	2-butanone			2.636	2.411	2.697	2.503	2.452	2.480	2.441	2.466	2.274	2.4844	4.96
27)		cis-1,2-dichloroethene	1.189	1.100	1.039	1.201	1.141	1.093	1.105	1.087	1.102	1.022	1.1079	5.15
28)		Ethyl Acetate				0.258	0.249	0.238	0.251	0.246	0.249	0.228	0.2455	3.96
29)	C	chloroform	1.734	1.604	1.542	1.757	1.664	1.600	1.609	1.562	1.573	1.431	1.6076	5.88
30)		Tetrahydrofuran				1.131	1.352	1.244	1.199	1.237	1.211	1.199	1.092	1.2082	6.45
31)	C	1,2-dichloroethane	1.431	1.332	1.263	1.378	1.284	1.259	1.254	1.221	1.209	1.087	1.2718	7.48
32)	I	1,4-difluorobenzene	----------ISTD----------											
33)	C	hexane				0.651	0.738	0.688	0.675	0.689	0.670	0.509	0.638	0.6573	10.21
34)	s	1,2-dichloroethane-D4	0.461	0.453	0.454	0.455	0.454	0.453	0.451	0.447	0.332	0.453	0.4415	8.73
35)	C	1,1,1-trichloroethane	0.949	0.874	0.824	0.923	0.879	0.876	0.869	0.850	0.645	0.808	0.8496	9.79
36)	C	benzene			1.058	0.943	1.059	0.975	0.951	0.960	0.931	0.708	0.907	0.9435	10.92
37)	C	carbon tetrachloride	0.865	0.788	0.737	0.856	0.811	0.804	0.842	0.821	0.618	0.754	0.7895	9.26
38)		cyclohexane	0.717	0.641	0.575	0.659	0.605	0.591	0.593	0.575	0.434	0.551	0.5940	12.52
39)	C	1,2-dichloropropane	0.563	0.544	0.490	0.557	0.528	0.528	0.552	0.542	0.422	0.538	0.5265	7.95
40)		bromodichloromethane	1.050	0.986	0.931	1.084	1.018	1.026	1.107	1.106	0.865	1.128	1.0301	8.16
41)	C	1,4-dioxane	0.332	0.279	0.266	0.315	0.293	0.295	0.328	0.327	0.259	0.329	0.3022	9.20
42)	C	trichloroethene	0.714	0.630	0.617	0.731	0.692	0.682	0.717	0.702	0.532	0.669	0.6686	9.06
43)	C	2,2,4-trimethylpentane	2.629	2.415	2.405	2.771	2.622	2.680	2.802	2.737	2.090	2.604	2.5754	8.42

VOLATILE ORGANICS ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Instrument ID: AIRLAB7 Calibration Date(s): 03/28/15 03/28/15

Calibration Times: 14:59 19:52

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
44)		heptane	1.211	1.098	1.020	1.179	1.134	1.158	1.243	1.231	0.949	1.185	1.1408	8.28
45)	C	cis-1,3-dichloropropene	0.598	0.533	0.504	0.597	0.579	0.602	0.688	0.707	0.564	0.739	0.6113	12.50
46)	C	4-methyl-2-pentanone	1.611	1.456	1.415	1.662	1.597	1.655	1.796	1.782	1.368	1.723	1.6066	9.32
47)		trans-1,3-dichloropropene	0.555	0.518	0.475	0.567	0.540	0.557	0.666	0.703	0.572	0.764	0.5918	15.21
48)	C	1,1,2-trichloroethane	0.563	0.524	0.514	0.598	0.560	0.555	0.587	0.585	0.455	0.581	0.5523	7.88
49)	I	chlorobenzene-D5	----------ISTD----------											
50)	C	toluene	6.344	5.431	4.978	5.564	5.117	5.019	5.109	4.884	4.794	4.426	5.1667	10.08
51)	s	toluene-D8	3.551	3.508	3.509	3.514	3.483	3.453	3.352	3.307	3.216	3.297	3.4190	3.39
52)		2-hexanone	4.600	4.267	4.102	4.837	4.621	4.671	5.032	4.912	4.780	4.224	4.6047	6.79
53)		dibromochloromethane	3.248	3.003	2.887	3.419	3.206	3.211	3.425	3.402	3.487	3.334	3.2622	5.96
54)	C	1,2-dibromoethane	2.920	2.711	2.557	2.990	2.745	2.686	2.757	2.713	2.753	2.632	2.7464	4.62
55)	C	tetrachloroethene	2.915	2.583	2.457	2.847	2.631	2.558	2.567	2.526	2.569	2.515	2.6169	5.64
56)		1,1,1,2-tetrachloroethane	2.930	2.571	2.480	2.826	2.653	2.570	2.567	2.458	2.427	2.232	2.5712	7.76
57)	C	chlorobenzene	4.415	4.111	3.924	4.414	4.087	3.962	4.111	4.074	4.135	3.914	4.1146	4.30
58)	C	ethylbenzene	6.114	5.556	5.369	6.150	5.935	5.980	6.518	6.451	6.453	6.025	6.0551	6.23
59)	C	m+p-xylene	4.468	4.148	4.073	4.813	4.747	4.805	5.130	5.081	5.068	4.688	4.7022	7.90
60)	C	bromoform	2.559	2.317	2.308	2.705	2.570	2.639	3.022	3.127	3.374	3.408	2.8031	14.45
61)	C	styrene	3.018	2.795	2.687	3.166	3.085	3.199	3.745	3.826	3.950	3.761	3.3231	13.79
62)	C	1,1,2,2-tetrachloroethane	4.068	3.628	3.528	3.918	3.654	3.553	3.597	3.507	3.472	3.151	3.6075	6.89
63)	C	o-xylene	4.942	4.412	4.413	5.168	5.068	5.170	5.489	5.369	5.251	4.648	4.9931	7.66
64)	s	bromofluorobenzene	2.176	2.124	2.146	2.167	2.193	2.164	2.231	2.275	2.310	2.470	2.2255	4.66
65)	C	isopropylbenzene	7.794	7.147	6.909	8.081	7.764	7.708	8.032	7.723	7.508	6.683	7.5349	6.26
66)		4-ethyl toluene	6.388	5.856	5.772	7.132	7.208	7.357	8.024	8.006	7.967	7.305	7.1014	11.84
67)		1,3,5-trimethylbenzene	5.894	5.337	5.303	6.416	6.421	6.514	6.989	6.769	6.596	6.035	6.2275	9.21
68)		tert-butylbenzene	7.018	6.411	6.393	7.606	7.644	7.667	8.046	7.582	7.124	5.951	7.1441	9.66
69)		1,2,4-trimethylbenzene	5.518	4.905	4.838	5.881	6.009	6.196	6.813	6.694	6.470	5.527	5.8851	11.73
70)	C	Benzyl Chloride	2.432	2.368	2.238	2.587	2.620	2.749	3.625	4.068	4.572	4.764	3.2021	30.15#
71)		1,3-dichlorobenzene	3.511	3.362	3.337	3.873	3.777	3.781	4.145	4.207	4.381	4.384	3.8759	10.18
72)	C	1,4-dichlorobenzene	3.404	3.348	3.255	3.753	3.716	3.688	4.090	4.147	4.367	4.277	3.8044	10.49
73)		sec-butylbenzene	0.903	0.839	0.846	1.001	1.016	1.023	1.090	1.035	0.994	0.849	0.9597	9.56
74)		p-isopropyltoluene	7.452	6.927	6.919	8.285	8.520	8.672	9.597	9.246	8.883	7.364	8.1865	11.78
75)		1,2-dichlorobenzene	3.384	3.249	3.190	3.706	3.670	3.698	4.079	4.134	4.244	4.224	3.7578	10.62
76)		n-butylbenzene	5.806	5.424	5.496	6.515	6.800	6.985	7.757	7.751	7.568	6.867	6.6971	13.17
77)	C	1,2,4-trichlorobenzene	3.184	2.699	2.444	2.755	2.770	2.870	3.406	3.516	3.525	3.359	3.0526	12.79
78)		naphthalene		5.643	5.148	5.899	6.143	6.484	8.176	8.424	8.066	8.091	6.8971	18.57
79)		1,2,3-trichlorobenzene		2.742	2.441	2.715	2.767	2.850	3.430	3.542	3.459	3.735	3.0756	15.06
80)	C	hexachlorobutadiene	4.322	3.901	3.828	4.076	4.010	4.031	4.624	4.631	4.480	3.958	4.1859	7.23

FORM VI-TO15-SIM

Response Factor Report Airlab 7

Method Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Method File : TSIM150328.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Mar 29 12:30:13 2015
Response Via : Initial Calibration

Calibration Files
0.02=R730765.D 0.04=R730766.D 0.1 =R730767.D 0.2 =R730768.D 0.5 =R730769.D 1.0 =R730770.D
5.0 =R730771.D 10.0=R730772.D 20.0=R730773.D 50.0=R730774.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		propylene			0.946	1.027	0.957	0.949	0.934	0.996	0.994	0.886	0.9612	4.56
3)		dichlorodifluorome...	1.899	1.434	1.399	1.725	1.485	1.473	1.439	1.597	1.541	1.199	1.5191	12.57
4)	C	chloromethane		1.208	1.008	1.071	0.977	0.943	0.929	0.914	0.920	0.836	0.9784	11.06
5)		Freon-114	2.452	2.226	2.162	2.405	2.226	2.189	2.114	2.149	2.042	1.474	2.1439	12.42
6)	C	vinyl chloride	0.873	0.810	0.762	0.860	0.814	0.786	0.793	0.792	0.801	0.741	0.8033	4.98
7)	C	1,3-butadiene	0.745	0.682	0.644	0.715	0.671	0.658	0.678	0.681	0.686	0.627	0.6788	4.91
8)	C	bromomethane	0.810	0.771	0.738	0.793	0.735	0.711	0.712	0.698	0.719	0.675	0.7362	5.85
9)	C	chloroethane	0.429	0.378	0.353	0.401	0.368	0.363	0.359	0.355	0.357	0.332	0.3694	7.41
10)		ethanol			0.820	0.886	0.840	0.825	0.855	0.848	0.845	0.725	0.8304	5.66
11)	C	vinyl bromide	0.818	0.748	0.703	0.806	0.757	0.735	0.744	0.740	0.753	0.710	0.7515	4.85
12)		acetone			1.821	1.931	1.773	1.722	1.670	1.637	1.658	1.433	1.7057	8.64
13)		trichlorofluoromet...	2.655	2.449	2.367	2.665	2.473	2.415	2.397	2.338	2.352	2.159	2.4268	6.16
14)		isopropyl alcohol					1.833	1.772	1.791	1.797	1.829	1.671	1.7820	3.32
15)	C	acrylonitrile	0.787	0.730	0.660	0.744	0.690	0.680	0.688	0.688	0.703	0.655	0.7025	5.75
16)	C	1,1-dichloroethene	1.571	1.408	1.365	1.532	1.426	1.388	1.394	1.385	1.405	1.298	1.4170	5.59
17)	C	methylene chloride					1.574	1.421	1.313	1.260	1.265	1.150	1.3305	11.13
18)	C	3-chloropropene				1.507	1.407	1.392	1.424	1.417	1.455	1.328	1.4186	3.90
19)	C	carbon disulfide		2.298	2.036	2.227	2.057	2.035	2.071	2.066	2.111	1.984	2.0985	4.80
20)		Freon 113	1.855	1.704	1.656	1.870	1.733	1.684	1.670	1.633	1.644	1.521	1.6971	6.10
21)		Halothane	1.408	1.332	1.241	1.419	1.331	1.299	1.296	1.285	1.346	1.282	1.3238	4.23
22)		trans-1,2-dichloro...	1.394	1.291	1.235	1.404	1.306	1.285	1.294	1.278	1.305	1.213	1.3006	4.61
23)	C	1,1-dichloroethane	1.676	1.519	1.453	1.654	1.540	1.503	1.505	1.482	1.500	1.388	1.5218	5.67
24)	C	MTBE	2.010	1.912	1.816	2.062	1.927	1.892	1.955	1.949	2.003	1.878	1.9404	3.71
25)	C	vinyl acetate			1.469	1.643	1.532	1.462	1.699	1.792	2.078	2.103	1.7222	14.74
26)	C	2-butanone		2.636	2.411	2.697	2.503	2.452	2.480	2.441	2.466	2.274	2.4844	4.96
27)		cis-1,2-dichloroet...	1.189	1.100	1.039	1.201	1.141	1.093	1.105	1.087	1.102	1.022	1.1079	5.15
28)		Ethyl Acetate				0.258	0.249	0.238	0.251	0.246	0.249	0.228	0.2455	3.96
29)	C	chloroform	1.734	1.604	1.542	1.757	1.664	1.600	1.609	1.562	1.573	1.431	1.6076	5.88
30)		Tetrahydrofuran			1.131	1.352	1.244	1.199	1.237	1.211	1.199	1.092	1.2082	6.45
31)	C	1,2-dichloroethane	1.431	1.332	1.263	1.378	1.284	1.259	1.254	1.221	1.209	1.087	1.2718	7.48

Response Factor Report Airlab 7

Method Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Method File : TSIM150328.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Mar 29 12:30:13 2015
Response Via : Initial Calibration

Calibration Files
0.02=R730765.D 0.04=R730766.D 0.1 =R730767.D 0.2 =R730768.D 0.5 =R730769.D 1.0 =R730770.D
5.0 =R730771.D 10.0=R730772.D 20.0=R730773.D 50.0=R730774.D

		Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32)	I	1,4-difluorobenzene	----------ISTD----------											
33)	C	hexane			0.651	0.738	0.688	0.675	0.689	0.670	0.509	0.638	0.6573	10.21
34)	s	1,2-dichloroethane-D4	0.461	0.453	0.454	0.455	0.454	0.453	0.451	0.447	0.332	0.453	0.4415	8.73
35)	C	1,1,1-trichloroethane	0.949	0.874	0.824	0.923	0.879	0.876	0.869	0.850	0.645	0.808	0.8496	9.79
36)	C	benzene			1.058	0.943	1.059	0.975	0.951	0.960	0.931	0.708	0.907	0.9435	10.92
37)	C	carbon tetrachloride	0.865	0.788	0.737	0.856	0.811	0.804	0.842	0.821	0.618	0.754	0.7895	9.26
38)		cyclohexane	0.717	0.641	0.575	0.659	0.605	0.591	0.593	0.575	0.434	0.551	0.5940	12.52
39)	C	1,2-dichloropropane	0.563	0.544	0.490	0.557	0.528	0.528	0.552	0.542	0.422	0.538	0.5265	7.95
40)		bromodichloromethane	1.050	0.986	0.931	1.084	1.018	1.026	1.107	1.106	0.865	1.128	1.0301	8.16
41)	C	1,4-dioxane	0.332	0.279	0.266	0.315	0.293	0.295	0.328	0.327	0.259	0.329	0.3022	9.20
42)	C	trichloroethene	0.714	0.630	0.617	0.731	0.692	0.682	0.717	0.702	0.532	0.669	0.6686	9.06
43)	C	2,2,4-trimethylpen...	2.629	2.415	2.405	2.771	2.622	2.680	2.802	2.737	2.090	2.604	2.5754	8.42
44)		heptane	1.211	1.098	1.020	1.179	1.134	1.158	1.243	1.231	0.949	1.185	1.1408	8.28
45)	C	cis-1,3-dichloropr...	0.598	0.533	0.504	0.597	0.579	0.602	0.688	0.707	0.564	0.739	0.6113	12.50
46)	C	4-methyl-2-pentanone	1.611	1.456	1.415	1.662	1.597	1.655	1.796	1.782	1.368	1.723	1.6066	9.32
47)		trans-1,3-dichloro...	0.555	0.518	0.475	0.567	0.540	0.557	0.666	0.703	0.572	0.764	0.5918	15.21
48)	C	1,1,2-trichloroethane	0.563	0.524	0.514	0.598	0.560	0.555	0.587	0.585	0.455	0.581	0.5523	7.88
49)	I	chlorobenzene-D5	----------ISTD----------											
50)	C	toluene	6.344	5.431	4.978	5.564	5.117	5.019	5.109	4.884	4.794	4.426	5.1667	10.08
51)	s	toluene-D8	3.551	3.508	3.509	3.514	3.483	3.453	3.352	3.307	3.216	3.297	3.4190	3.39
52)		2-hexanone	4.600	4.267	4.102	4.837	4.621	4.671	5.032	4.912	4.780	4.224	4.6047	6.79
53)		dibromochloromethane	3.248	3.003	2.887	3.419	3.206	3.211	3.425	3.402	3.487	3.334	3.2622	5.96
54)	C	1,2-dibromoethane	2.920	2.711	2.557	2.990	2.745	2.686	2.757	2.713	2.753	2.632	2.7464	4.62
55)	C	tetrachloroethene	2.915	2.583	2.457	2.847	2.631	2.558	2.567	2.526	2.569	2.515	2.6169	5.64
56)		1,1,1,2-tetrachlor...	2.930	2.571	2.480	2.826	2.653	2.570	2.567	2.458	2.427	2.232	2.5712	7.76
57)	C	chlorobenzene	4.415	4.111	3.924	4.414	4.087	3.962	4.111	4.074	4.135	3.914	4.1146	4.30
58)	C	ethylbenzene	6.114	5.556	5.369	6.150	5.935	5.980	6.518	6.451	6.453	6.025	6.0551	6.23
59)	C	m+p-xylene	4.468	4.148	4.073	4.813	4.747	4.805	5.130	5.081	5.068	4.688	4.7022	7.90
60)	C	bromoform	2.559	2.317	2.308	2.705	2.570	2.639	3.022	3.127	3.374	3.408	2.8031	14.45
61)	C	styrene	3.018	2.795	2.687	3.166	3.085	3.199	3.745	3.826	3.950	3.761	3.3231	13.79

Method Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Method File : TSIM150328.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Mar 29 12:30:13 2015
Response Via : Initial Calibration

Calibration Files
0.02=R730765.D 0.04=R730766.D 0.1 =R730767.D 0.2 =R730768.D 0.5 =R730769.D 1.0 =R730770.D
5.0 =R730771.D 10.0=R730772.D 20.0=R730773.D 50.0=R730774.D

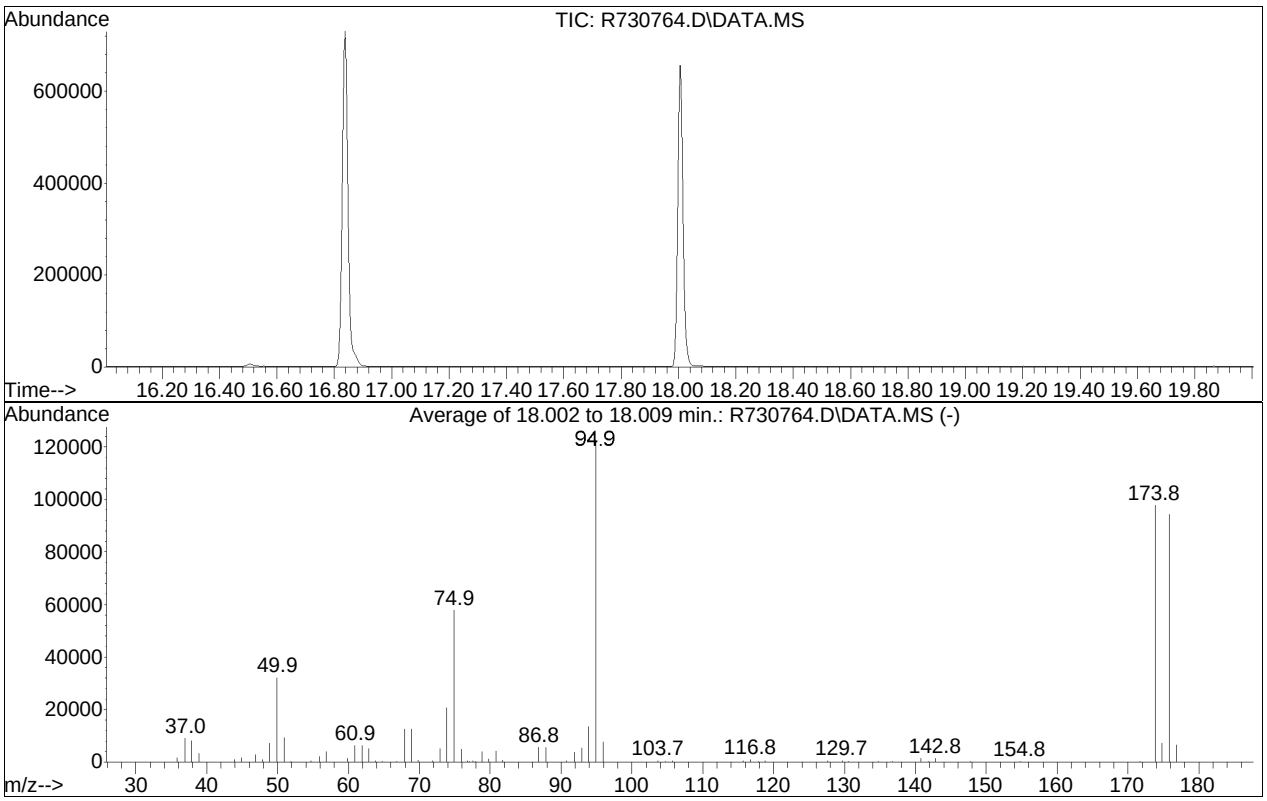
		Compound	0.02	0.04	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C	1,1,2,2-tetrachlor...	4.068	3.628	3.528	3.918	3.654	3.553	3.597	3.507	3.472	3.151	3.6075	6.89
63)	C	o-xylene	4.942	4.412	4.413	5.168	5.068	5.170	5.489	5.369	5.251	4.648	4.9931	7.66
64)	s	bromofluorobenzene	2.176	2.124	2.146	2.167	2.193	2.164	2.231	2.275	2.310	2.470	2.2255	4.66
65)	C	isopropylbenzene	7.794	7.147	6.909	8.081	7.764	7.708	8.032	7.723	7.508	6.683	7.5349	6.26
66)		4-ethyl toluene	6.388	5.856	5.772	7.132	7.208	7.357	8.024	8.006	7.967	7.305	7.1014	11.84
67)		1,3,5-trimethylben...	5.894	5.337	5.303	6.416	6.421	6.514	6.989	6.769	6.596	6.035	6.2275	9.21
68)		tert-butylbenzene	7.018	6.411	6.393	7.606	7.644	7.667	8.046	7.582	7.124	5.951	7.1441	9.66
69)		1,2,4-trimethylben...	5.518	4.905	4.838	5.881	6.009	6.196	6.813	6.694	6.470	5.527	5.8851	11.73
70)	C	Benzyl Chloride	2.432	2.368	2.238	2.587	2.620	2.749	3.625	4.068	4.572	4.764	3.2021	30.15#
71)		1,3-dichlorobenzene	3.511	3.362	3.337	3.873	3.777	3.781	4.145	4.207	4.381	4.384	3.8759	10.18
72)	C	1,4-dichlorobenzene	3.404	3.348	3.255	3.753	3.716	3.688	4.090	4.147	4.367	4.277	3.8044	10.49
73)		sec-butylbenzene	0.903	0.839	0.846	1.001	1.016	1.023	1.090	1.035	0.994	0.849	0.9597	9.56
74)		p-isopropyltoluene	7.452	6.927	6.919	8.285	8.520	8.672	9.597	9.246	8.883	7.364	8.1865	11.78
75)		1,2-dichlorobenzene	3.384	3.249	3.190	3.706	3.670	3.698	4.079	4.134	4.244	4.224	3.7578	10.62
76)		n-butylbenzene	5.806	5.424	5.496	6.515	6.800	6.985	7.757	7.751	7.568	6.867	6.6971	13.17
77)	C	1,2,4-trichloroben...	3.184	2.699	2.444	2.755	2.770	2.870	3.406	3.516	3.525	3.359	3.0526	12.79
78)		naphthalene		5.643	5.148	5.899	6.143	6.484	8.176	8.424	8.066	8.091	6.8971	18.57
79)		1,2,3-trichloroben...		2.742	2.441	2.715	2.767	2.850	3.430	3.542	3.459	3.735	3.0756	15.06
80)	C	hexachlorobutadiene	4.322	3.901	3.828	4.076	4.010	4.031	4.624	4.631	4.480	3.958	4.1859	7.23

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730764.D
Acq On : 28 Mar 2015 2:28 pm
Operator : AIRLAB7:MB
Sample : WG771894-1,3,250,250
Misc : WG771894
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Mar 29 12:30:13 2015



AutoFind: Scans 2076, 2077, 2078; Background Corrected with Scan 2067

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.4	32085	PASS
75	95	30	66	47.6	57904	PASS
95	95	100	100	100.0	121600	PASS
96	95	5	9	6.3	7720	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	80.4	97773	PASS
175	174	4	9	7.4	7195	PASS
176	174	93	101	96.4	94219	PASS
177	176	5	9	6.8	6452	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730765.D
Acq On : 28 Mar 2015 2:59 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.02
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:05:14 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:07 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.466	49	190053	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 99.78%			
32) 1,4-difluorobenzene	12.558	114	337614	10.000	ppbV	# 0.01
Standard Area = 343507			Recovery = 98.28%			
49) chlorobenzene-D5	16.835	54	102386	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 88.71%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.291	65	155802	10.227	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.27%			
51) toluene-D8	15.182	98	363619	10.594	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.94%			
64) bromofluorobenzene	18.007	95	222772	9.753	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.53%			
Target Compounds						Qvalue
2) propylene	4.745	41	428M6	0.024	ppbV	
3) dichlorodifluoromethane	4.844	85	722	0.026	ppbV #	88
4) chloromethane	5.061	50	575	0.033	ppbV #	78
5) Freon-114	5.218	85	932	0.023	ppbV #	94
6) vinyl chloride	5.366	62	332	0.022	ppbV #	60
7) 1,3-butadiene	5.553	54	283M4	0.022	ppbV	
8) bromomethane	5.914	94	308M4	0.023	ppbV	
9) chloroethane	6.154	64	163	0.024	ppbV #	33
10) ethanol	6.361	31	2054M4	0.126	ppbV	
11) vinyl bromide	6.601	106	311M4	0.022	ppbV	
12) acetone	6.977	43	4958	0.156	ppbV #	98
13) trichlorofluoromethane	7.137	101	1009	0.022	ppbV	92
14) isopropyl alcohol	7.321	45	1461	0.043	ppbV #	79
15) acrylonitrile	7.512	53	299	0.023	ppbV #	90
16) 1,1-dichloroethene	7.896	61	597	0.023	ppbV #	83
17) methylene chloride	8.048	49	2730	0.109	ppbV	93
18) 3-chloropropene	8.192	41	603M4	0.022	ppbV	
19) carbon disulfide	8.368	76	1059	0.027	ppbV #	1
20) Freon 113	8.376	101	705	0.022	ppbV	96
21) Halothane	8.907	117	535	0.022	ppbV #	88
22) trans-1,2-dichloroethene	9.132	61	530	0.022	ppbV #	87
23) 1,1-dichloroethane	9.358	63	637	0.022	ppbV #	79
24) MTBE	9.512	73	764M4	0.021	ppbV	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730765.D
Acq On : 28 Mar 2015 2:59 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.02
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:05:14 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:07 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.550	43	818M6	0.025	ppbV		
26) 2-butanone	9.873	43	1140	0.024	ppbV	#	85
27) cis-1,2-dichloroethene	10.279	61	452	0.022	ppbV	#	85
28) Ethyl Acetate	10.588	61	112	0.023	ppbV	#	1
29) chloroform	10.607	83	659	0.022	ppbV	#	87
30) Tetrahydrofuran	11.121	42	500M4	0.021	ppbV		
31) 1,2-dichloroethane	11.411	62	544	0.023	ppbV	#	62
33) hexane	10.523	57	519M4	0.022	ppbV		
35) 1,1,1-trichloroethane	11.688	97	641	0.022	ppbV	#	63
36) benzene	12.175	78	860	0.027	ppbV	#	79
37) carbon tetrachloride	12.340	117	584	0.021	ppbV	#	90
38) cyclohexane	12.465	56	484	0.024	ppbV	#	83
39) 1,2-dichloropropane	13.065	63	380	0.020	ppbV	#	77
40) bromodichloromethane	13.273	83	709	0.019	ppbV	#	92
41) 1,4-dioxane	13.418	88	224M3	0.020	ppbV		
42) trichloroethene	13.314	130	482M4	0.020	ppbV		
43) 2,2,4-trimethylpentane	13.345	57	1775M6	0.019	ppbV		
44) heptane	13.625	43	818	0.019	ppbV	#	92
45) cis-1,3-dichloropropene	14.262	75	404	0.017	ppbV	#	69
46) 4-methyl-2-pentanone	14.406	43	1088	0.018	ppbV	#	91
47) trans-1,3-dichloropropene	14.820	75	375	0.017	ppbV	#	57
48) 1,1,2-trichloroethane	15.010	97	380M2	0.019	ppbV		
50) toluene	15.281	91	1299M4	0.025	ppbV		
52) 2-hexanone	15.598	43	942	0.018	ppbV	#	91
53) dibromochloromethane	15.688	129	665M4	0.019	ppbV		
54) 1,2-dibromoethane	15.914	107	598	0.021	ppbV		98
55) tetrachloroethene	16.312	166	597	0.023	ppbV		99
56) 1,1,1,2-tetrachloroethane	16.861	131	600	0.023	ppbV	#	93
57) chlorobenzene	16.872	112	904M4	0.021	ppbV		
58) ethylbenzene	17.164	91	1252	0.019	ppbV		98
59) m+p-xylene	17.305	91	1830	0.035	ppbV		92
60) bromoform	17.378	173	524	0.017	ppbV		95
61) styrene	17.582	104	618	0.016	ppbV		97
62) 1,1,2,2-tetrachloroethane	17.667	83	833	0.023	ppbV		97
63) o-xylene	17.663	91	1012	0.018	ppbV		98
65) isopropylbenzene	18.103	105	1596	0.019	ppbV		90
66) 4-ethyl toluene	18.583	105	1308M4	0.016	ppbV		
67) 1,3,5-trimethylbenzene	18.635	105	1207	0.017	ppbV	#	96
68) tert-butylbenzene	18.942	119	1437	0.017	ppbV		94
69) 1,2,4-trimethylbenzene	18.942	105	1130	0.016	ppbV		92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730765.D
Acq On : 28 Mar 2015 2:59 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.02
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:05:14 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:07 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

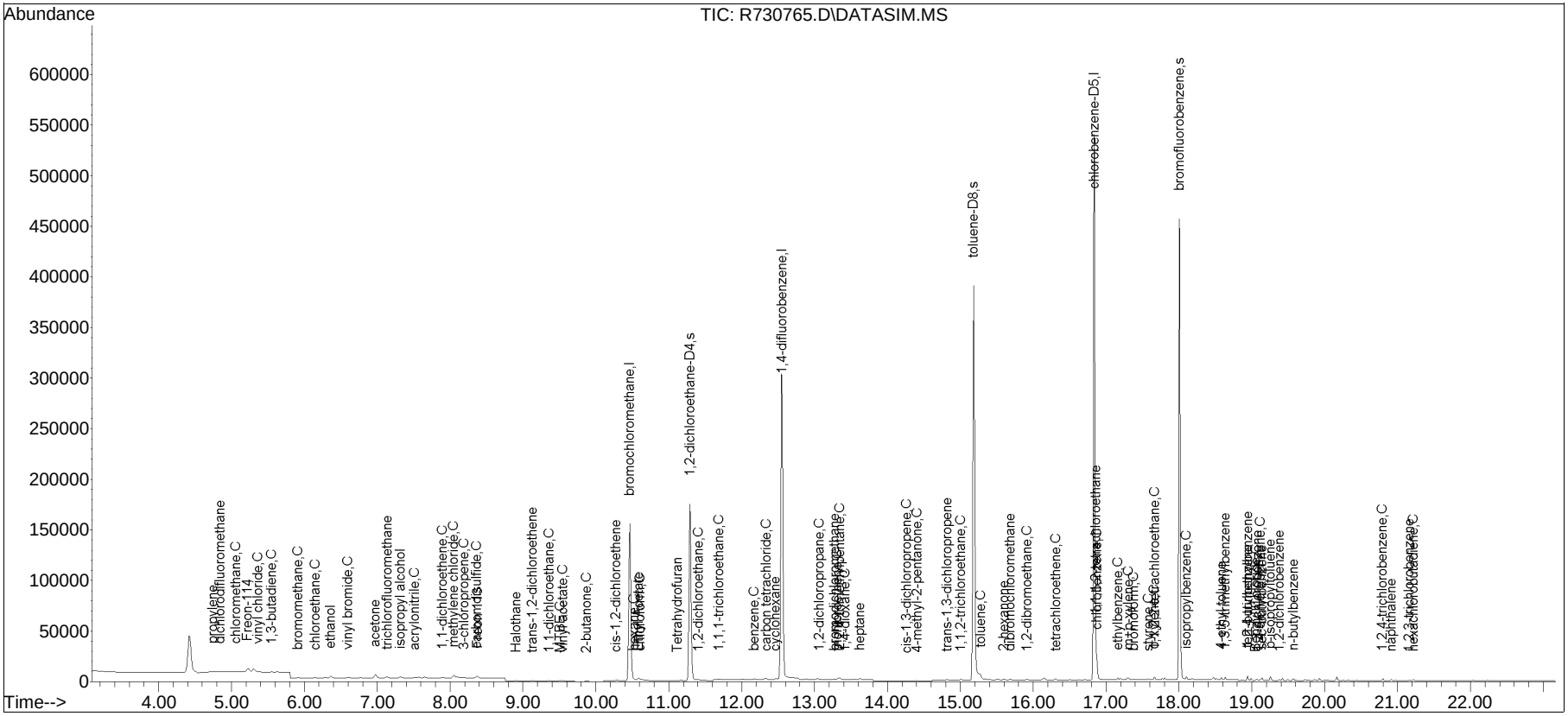
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) Benzyl Chloride	19.057	91	498	0.013	ppbV	#	78
71) 1,3-dichlorobenzene	19.071	146	719	0.017	ppbV	#	85
72) 1,4-dichlorobenzene	19.119	146	697M4	0.017	ppbV		
73) sec-butylbenzene	19.141	105	1849	0.017	ppbV		95
74) p-isopropyltoluene	19.252	119	1526	0.016	ppbV		94
75) 1,2-dichlorobenzene	19.378	146	693	0.017	ppbV	#	87
76) n-butylbenzene	19.569	91	1189	0.015	ppbV		99
77) 1,2,4-trichlorobenzene	20.793	180	652	0.019	ppbV	#	79
78) naphthalene	20.913	128	1466	0.018	ppbV	#	91
79) 1,2,3-trichlorobenzene	21.162	180	703	0.020	ppbV		93
80) hexachlorobutadiene	21.213	225	885	0.019	ppbV	#	86

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730765.D
Acq On : 28 Mar 2015 2:59 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.02
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

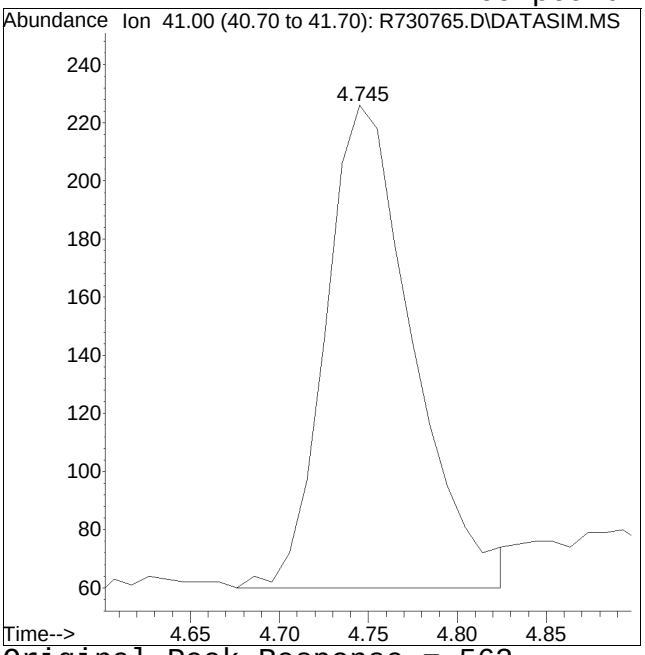
Quant Time: Mar 29 12:05:14 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:07 2015
Response via : Initial Calibration



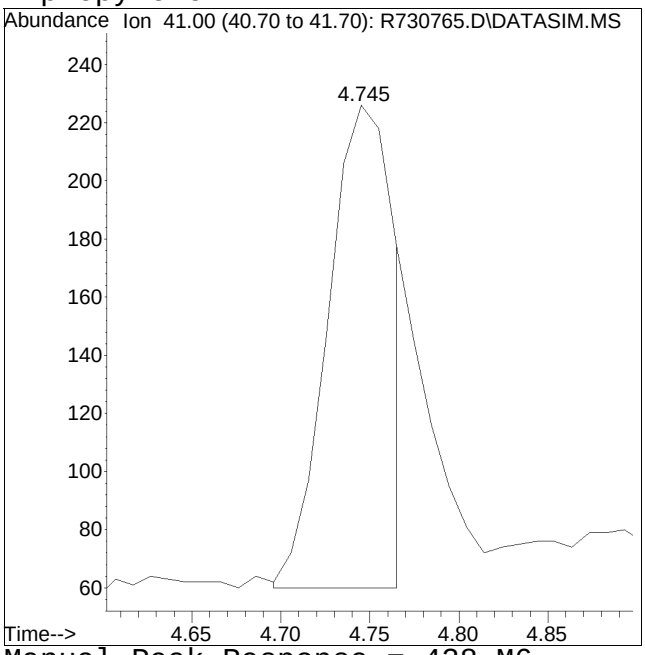
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 563



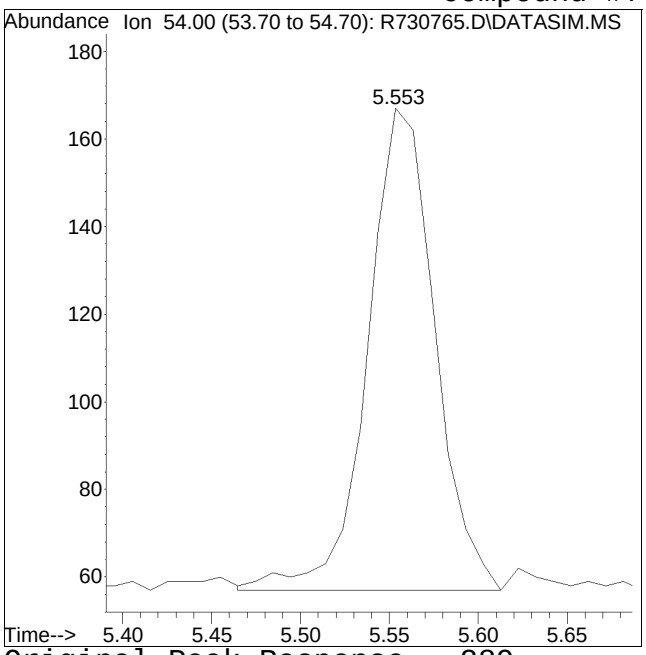
Manual Peak Response = 428 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

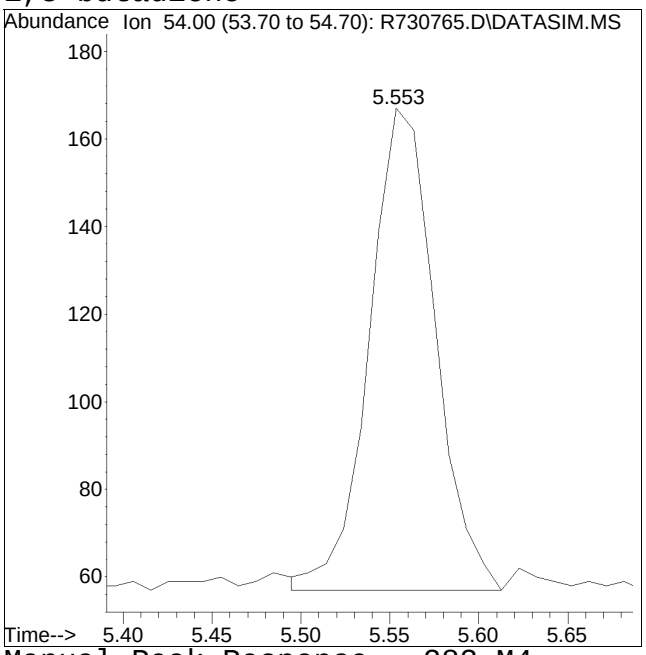
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 289



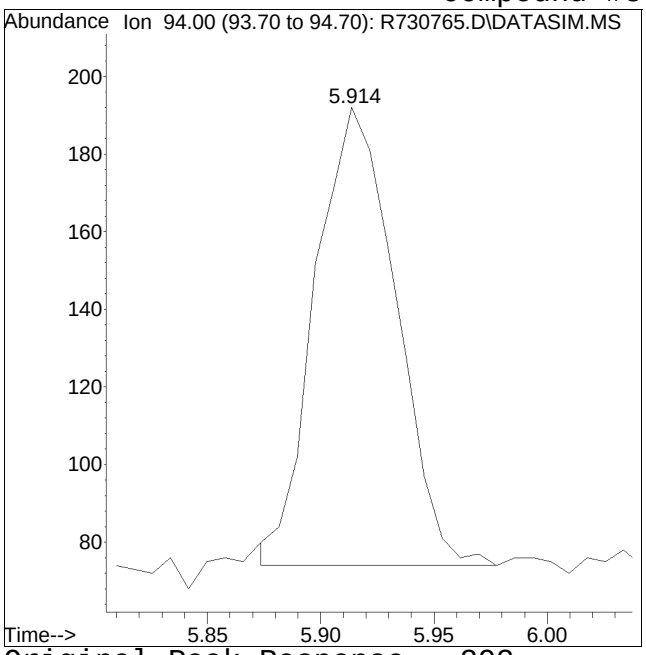
Manual Peak Response = 283 M4

M4 = Poor automated baseline construction.

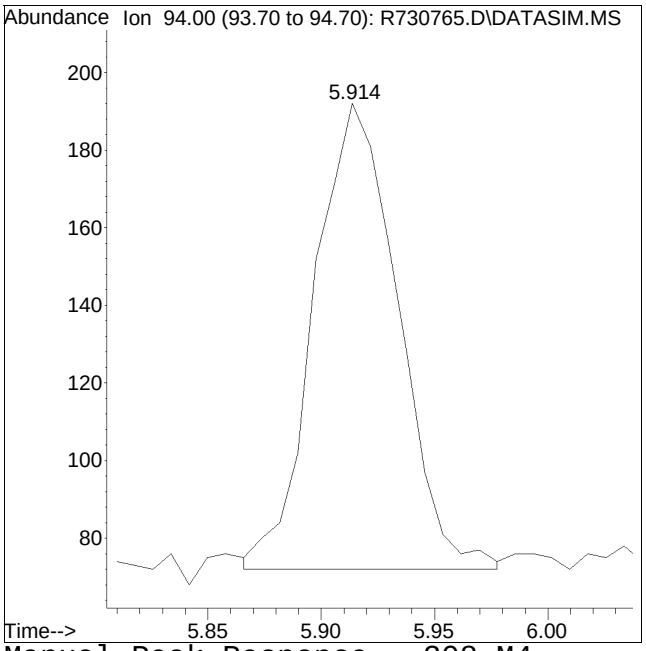
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #8: bromomethane



Original Peak Response = 292



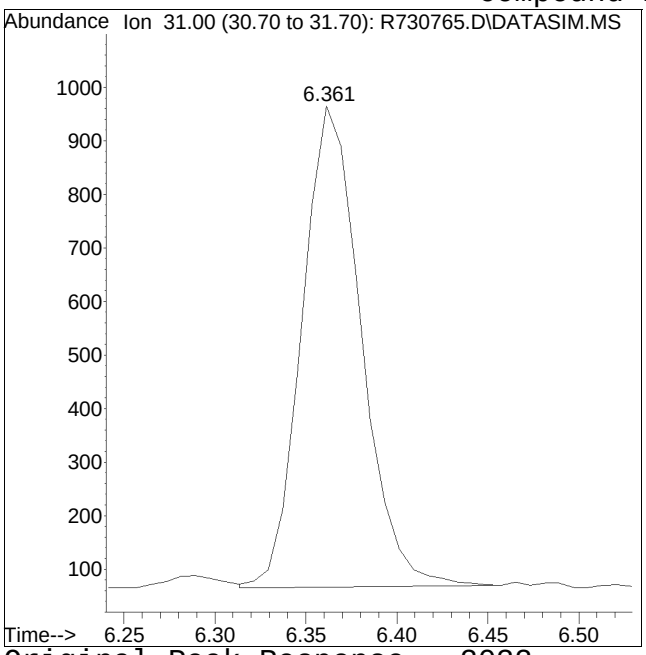
Manual Peak Response = 308 M4

M4 = Poor automated baseline construction.

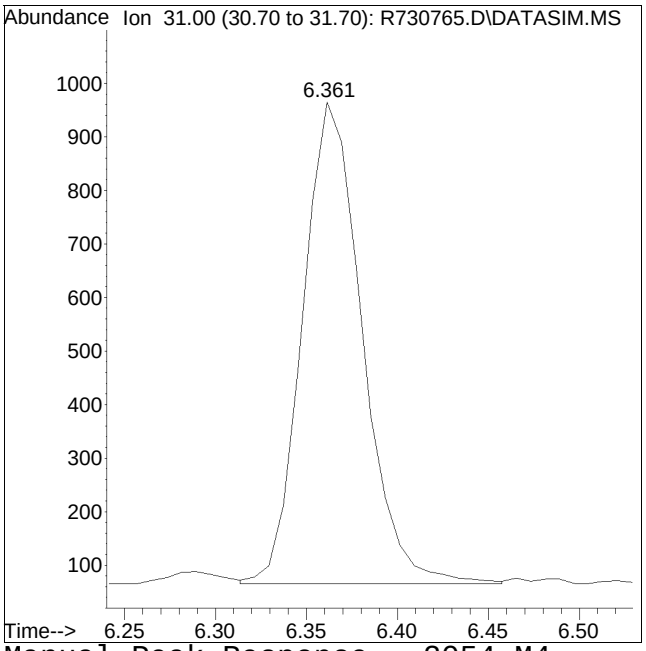
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #10: ethanol



Original Peak Response = 2032



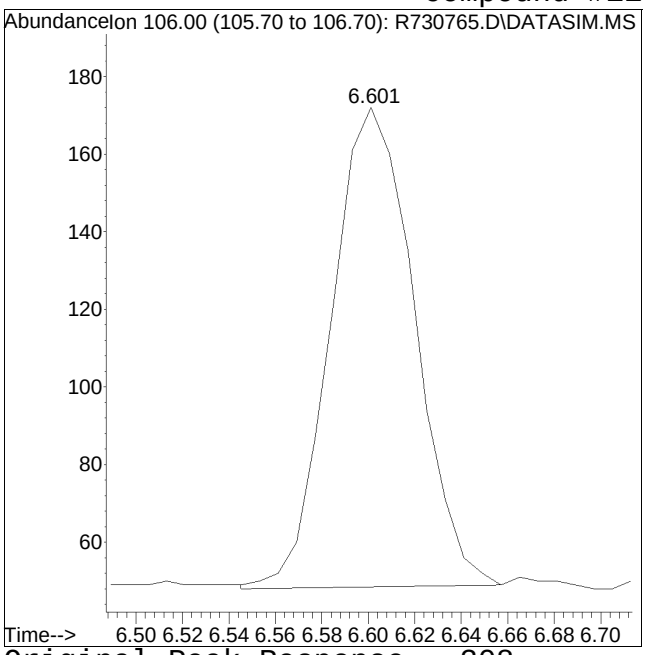
Manual Peak Response = 2054 M4

M4 = Poor automated baseline construction.

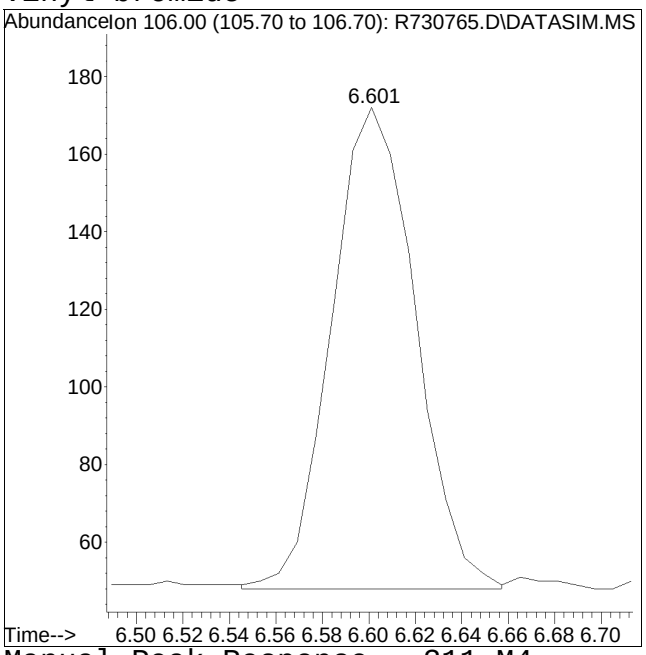
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #11: vinyl bromide



Original Peak Response = 308



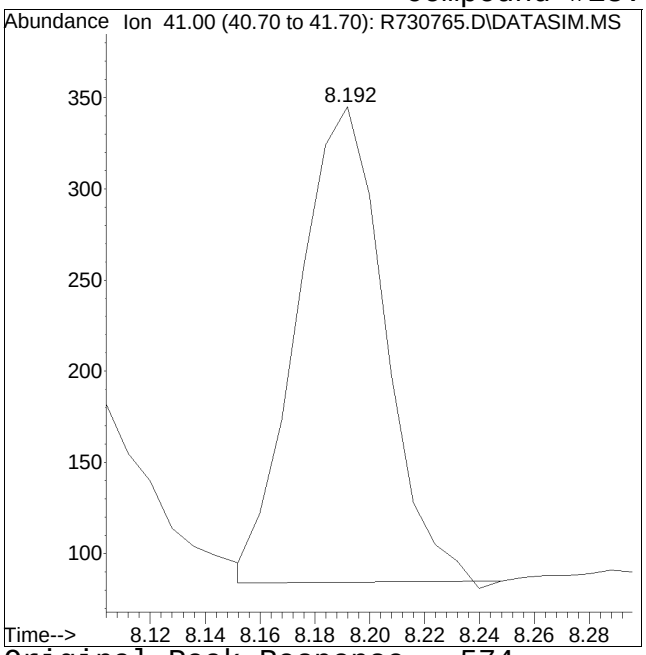
Manual Peak Response = 311 M4

M4 = Poor automated baseline construction.

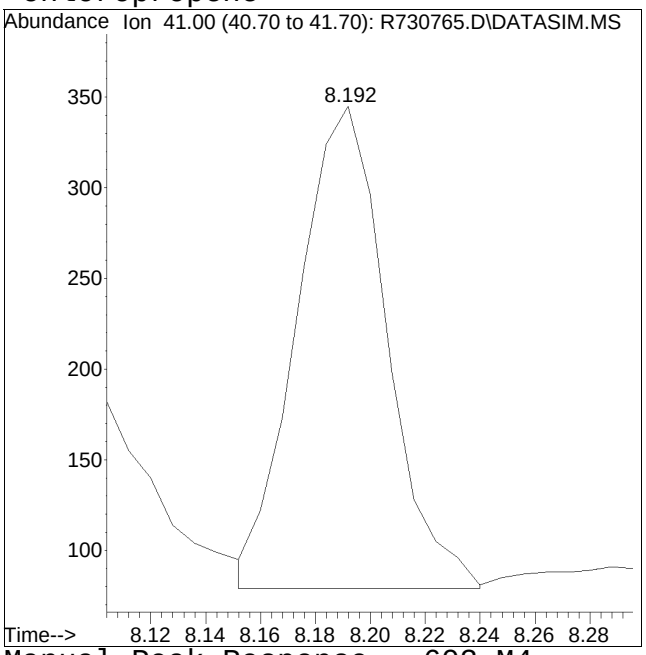
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #18: 3-chloropropene



Original Peak Response = 574



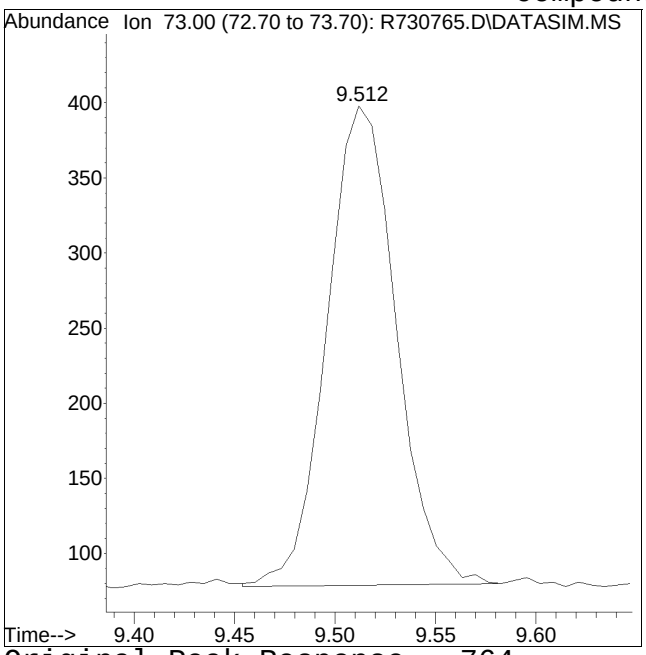
Manual Peak Response = 603 M4

M4 = Poor automated baseline construction.

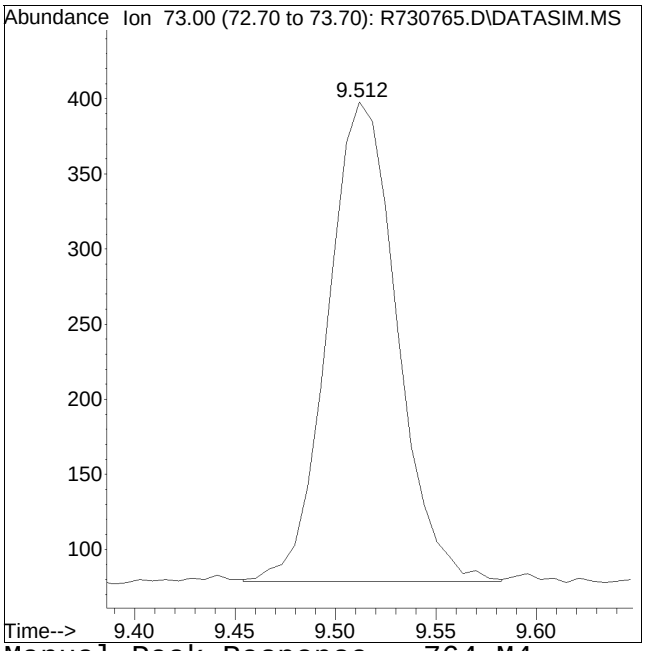
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #24: MTBE



Original Peak Response = 764



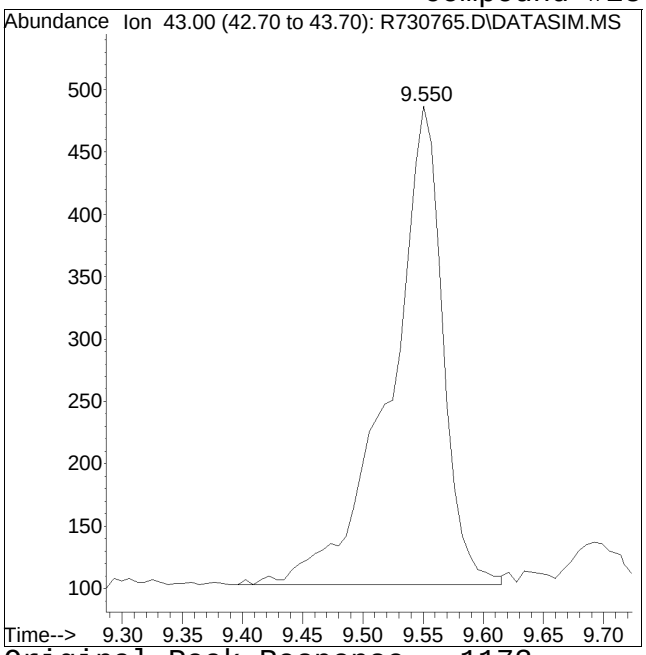
Manual Peak Response = 764 M4

M4 = Poor automated baseline construction.

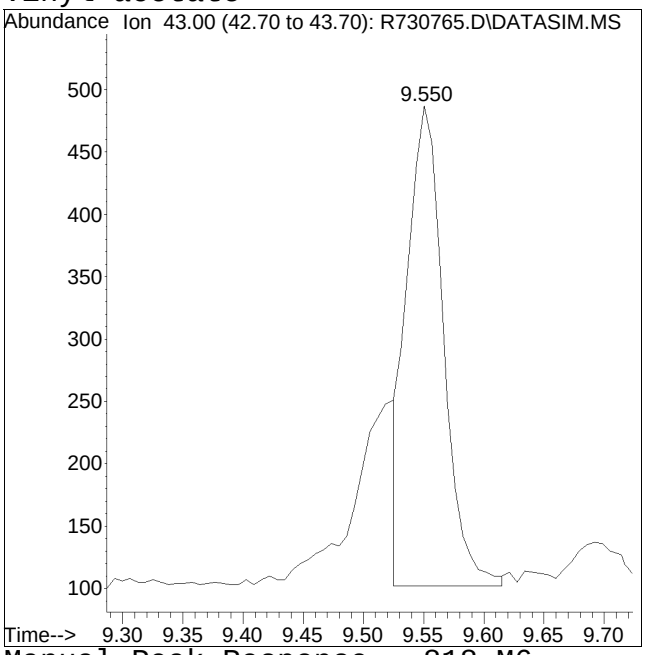
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #25: vinyl acetate



Original Peak Response = 1173



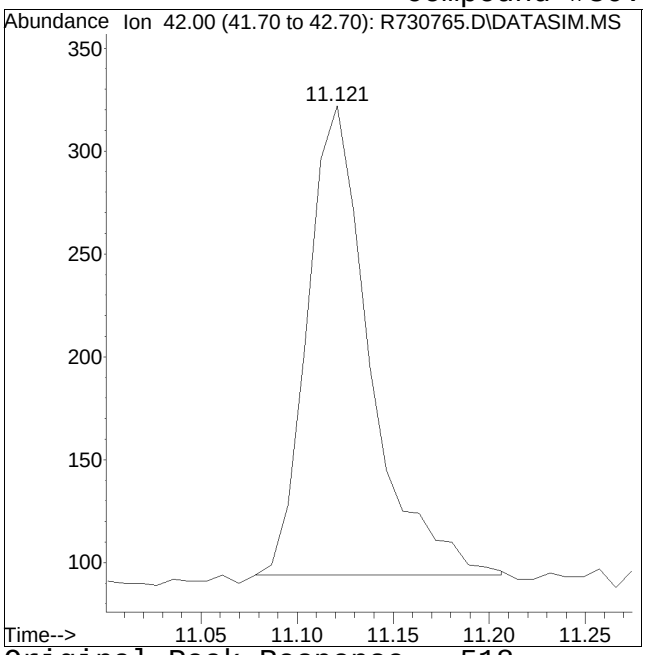
Manual Peak Response = 818 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

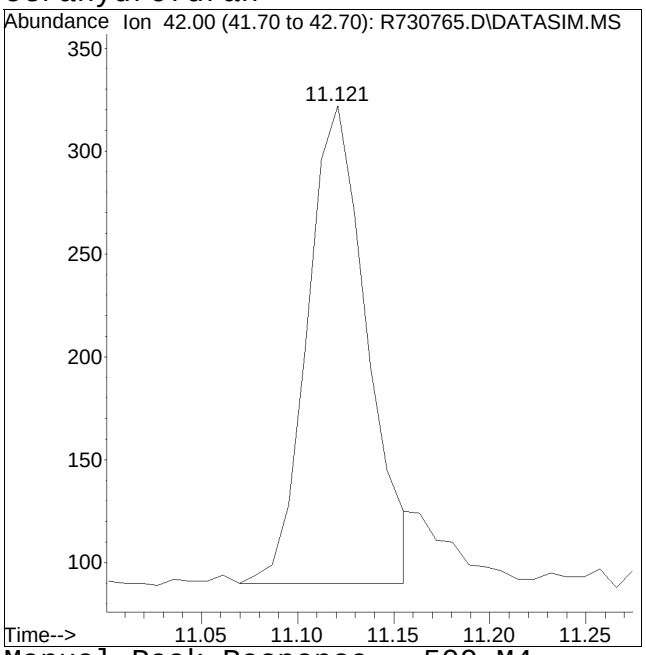
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #30: Tetrahydrofuran



Original Peak Response = 518



Manual Peak Response = 500 M4

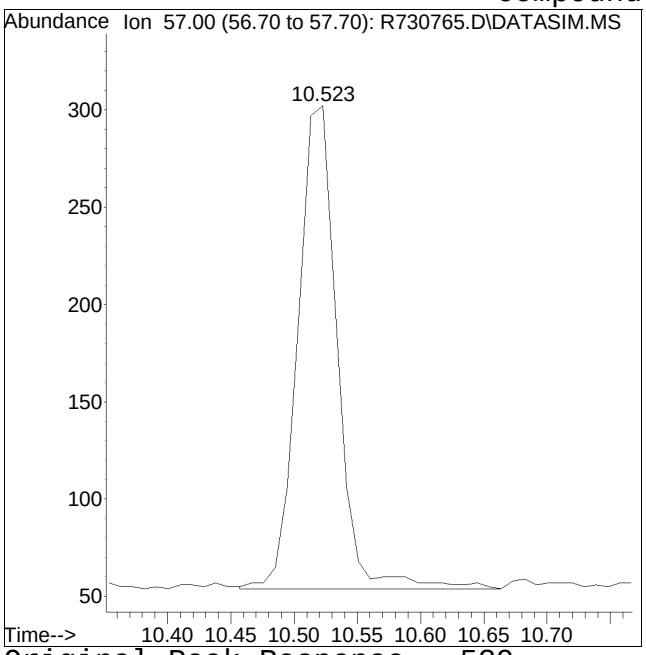
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

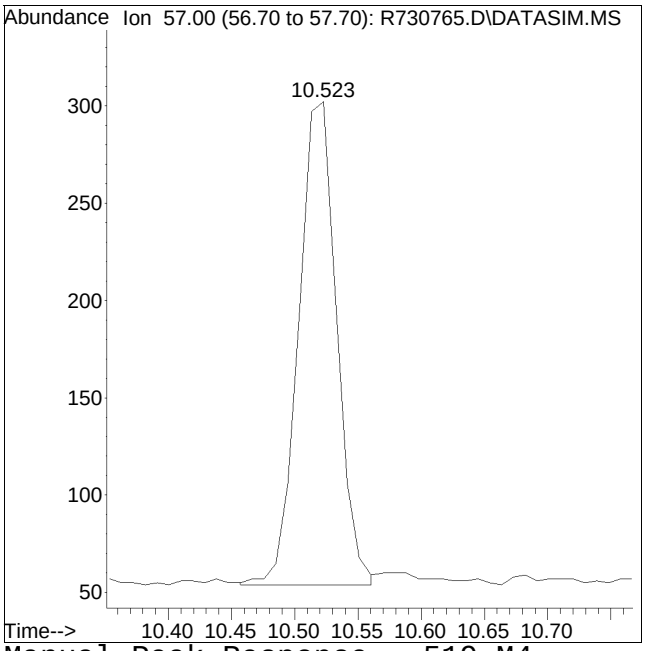
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730765.D
Date Inj'd : 3/28/2015 2:59 pm
Sample : ITO15-SIMSTD0.02

Method : TSIM150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 11:53 am

Compound #33: hexane



Original Peak Response = 539



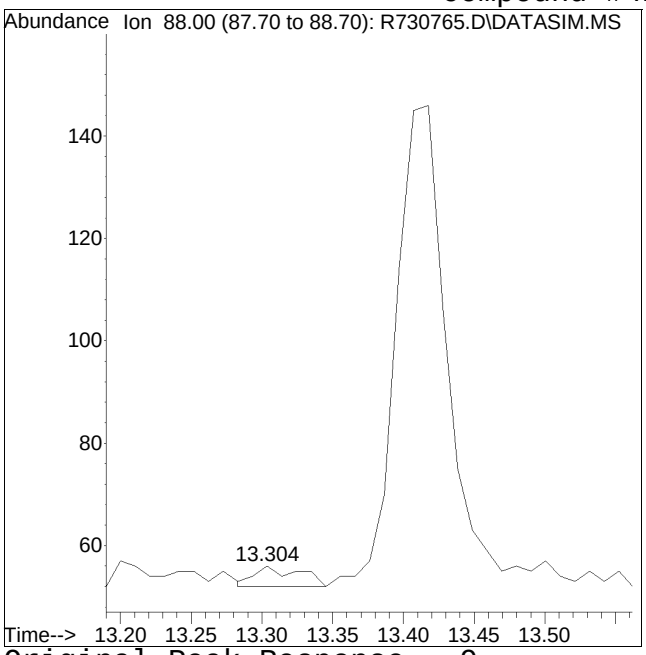
Manual Peak Response = 519 M4

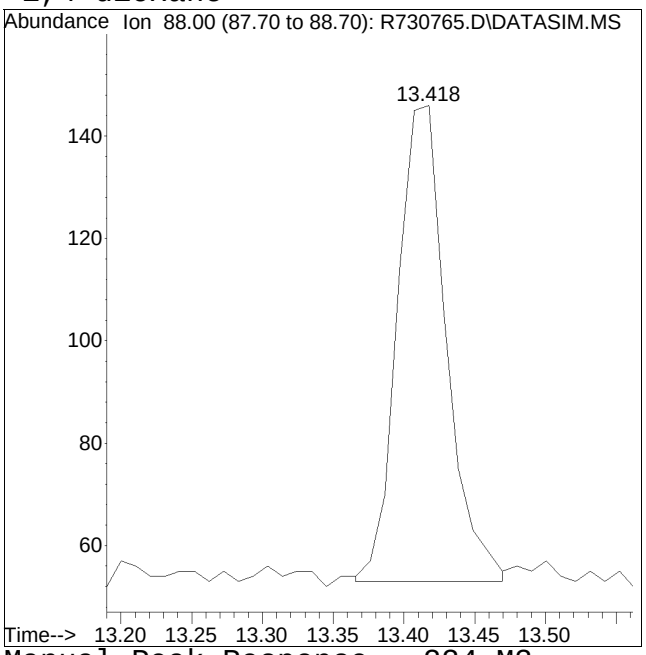
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #41: 1,4-dioxane





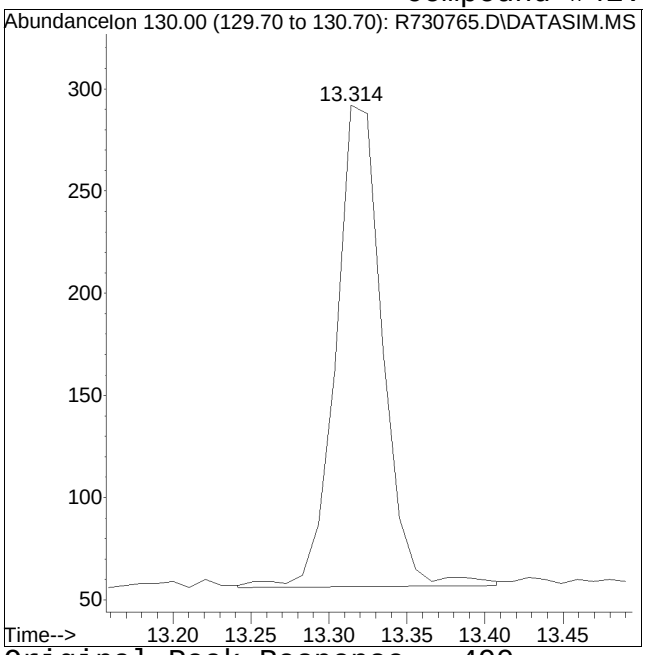
Original Peak Response = 9 Manual Peak Response = 224 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

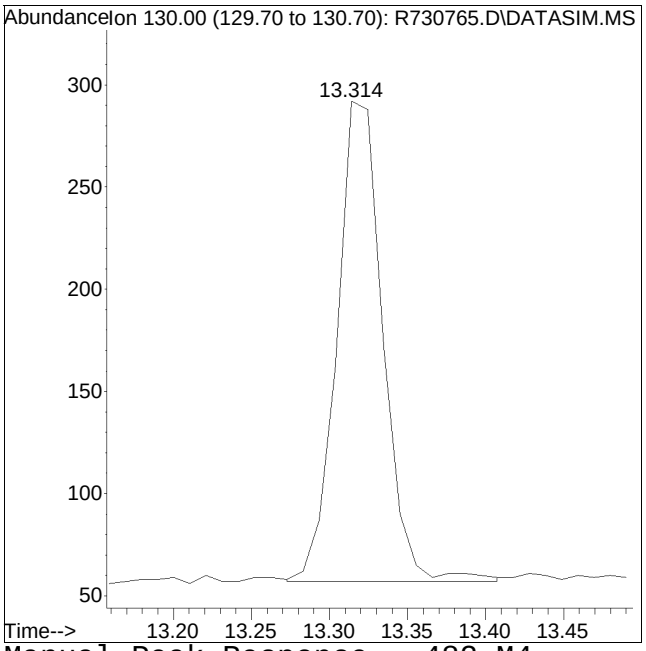
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #42: trichloroethene



Original Peak Response = 490



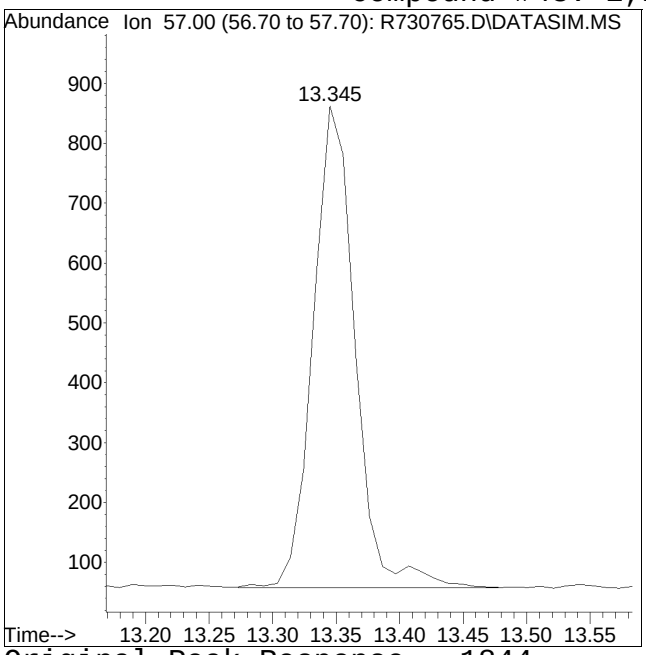
Manual Peak Response = 482 M4

M4 = Poor automated baseline construction.

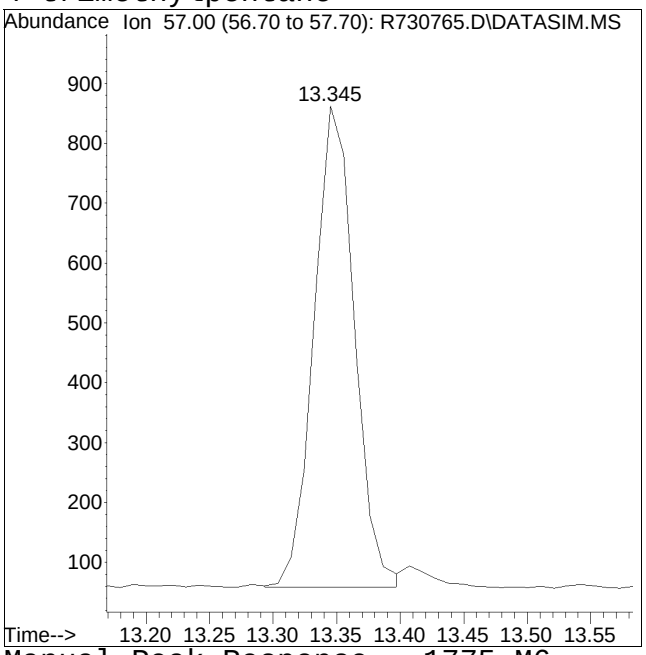
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #43: 2,2,4-trimethylpentane



Original Peak Response = 1844



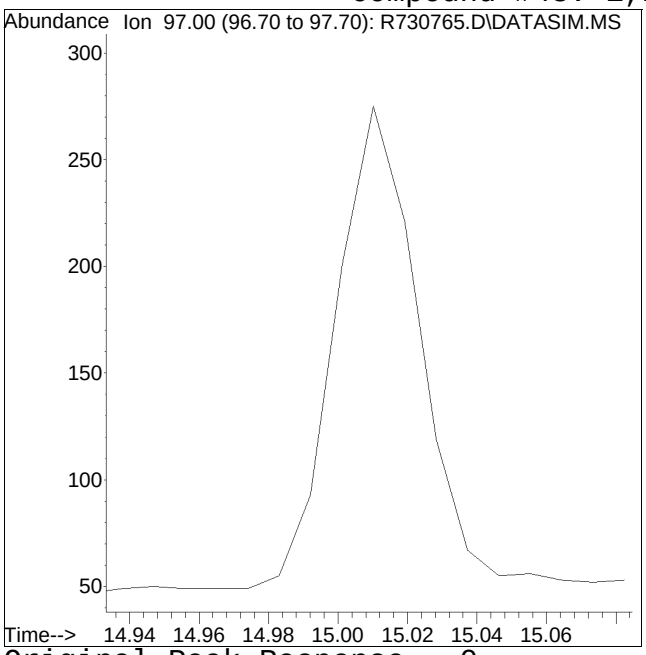
Manual Peak Response = 1775 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

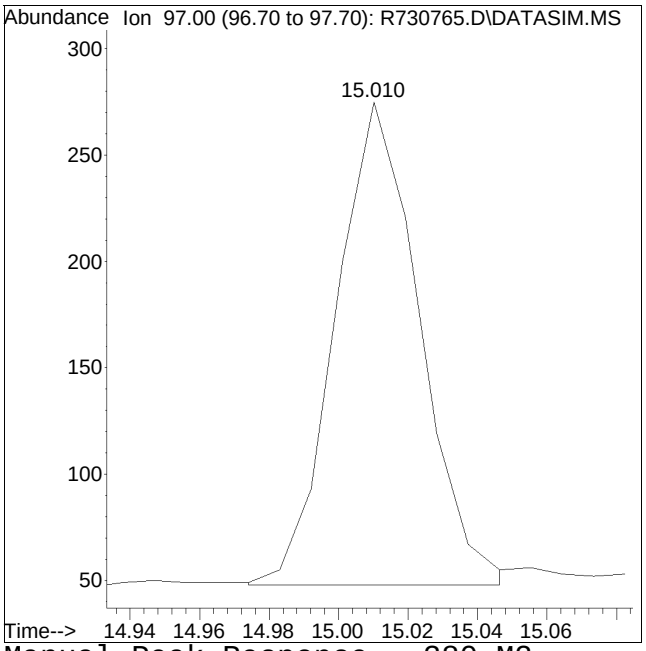
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #48: 1,1,2-trichloroethane



Original Peak Response = 0



Manual Peak Response = 380 M2

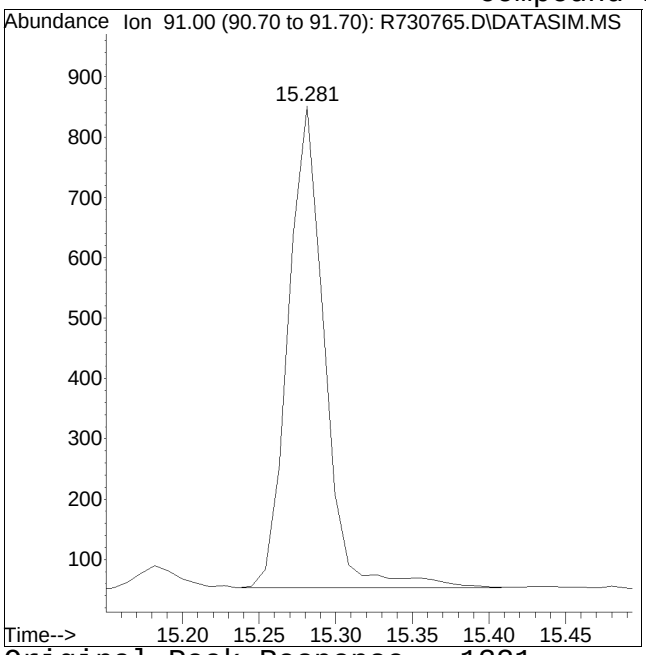
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

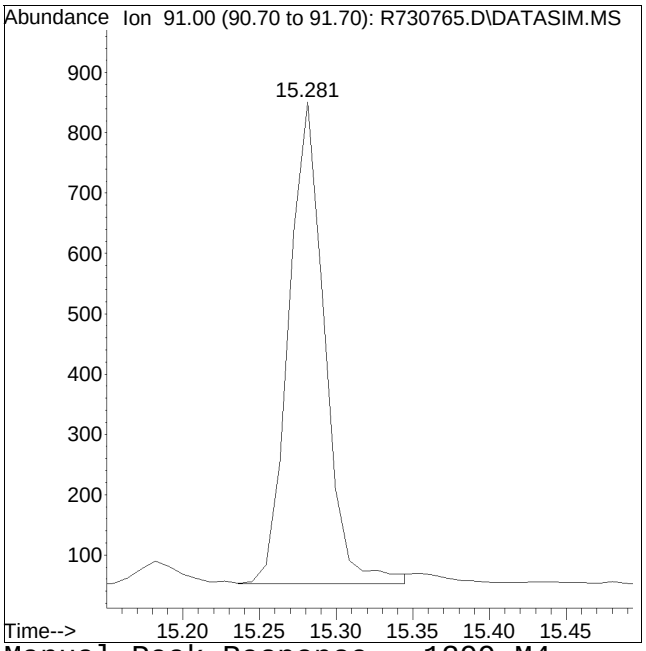
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730765.D
Date Inj'd : 3/28/2015 2:59 pm
Sample : ITO15-SIMSTD0.02

Method : TSIM150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 11:53 am

Compound #50: toluene



Original Peak Response = 1321



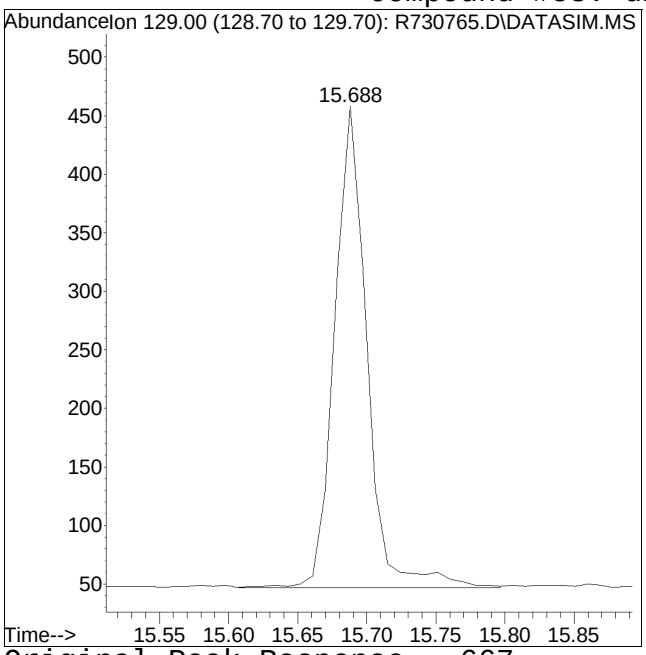
Manual Peak Response = 1299 M4

M4 = Poor automated baseline construction.

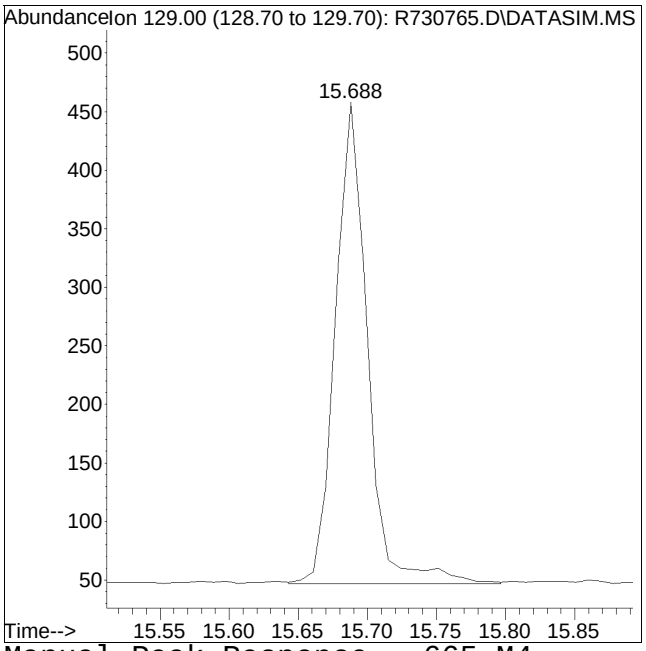
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #53: dibromochloromethane



Original Peak Response = 667



Manual Peak Response = 665 M4

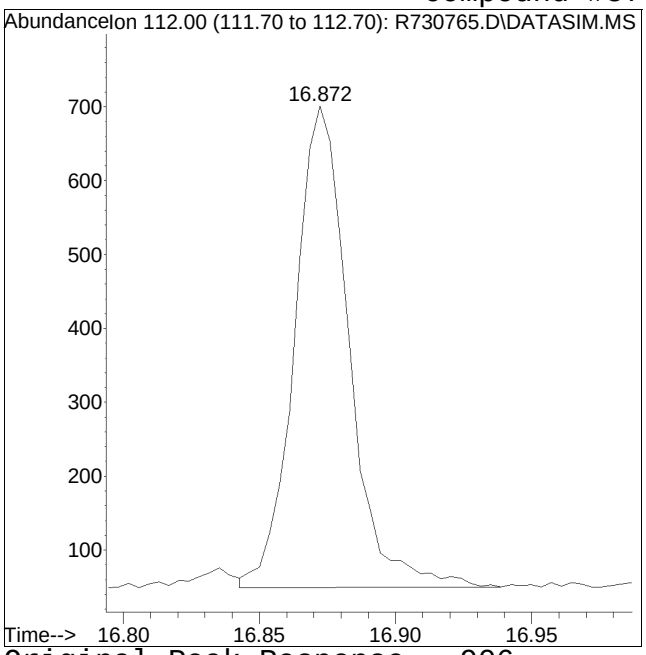
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

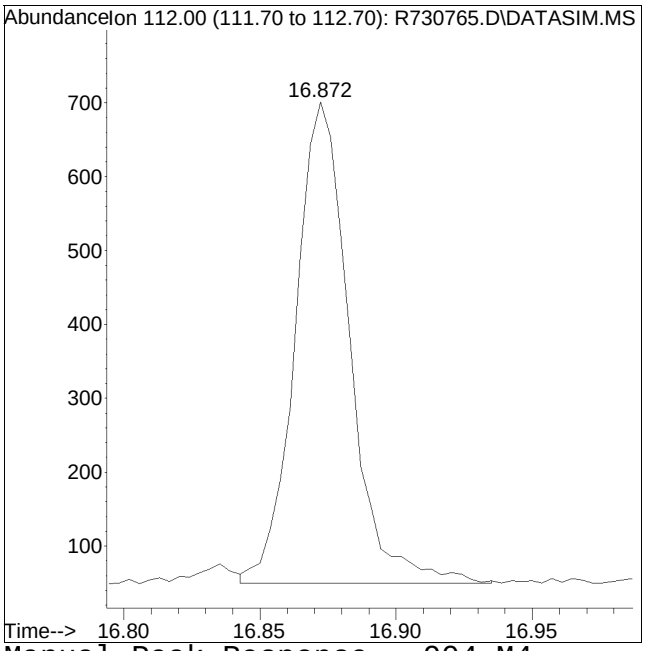
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730765.D
Date Inj'd : 3/28/2015 2:59 pm
Sample : ITO15-SIMSTD0.02

Method : TSIM150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 11:53 am

Compound #57: chlorobenzene



Original Peak Response = 906



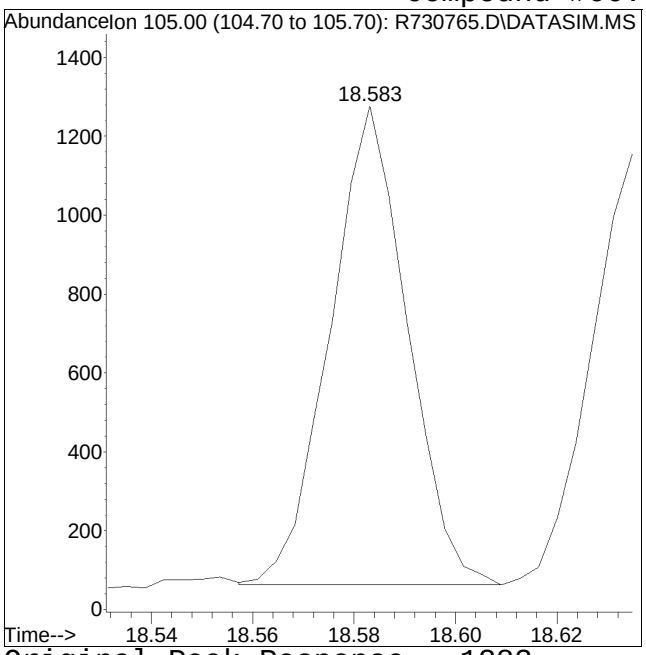
Manual Peak Response = 904 M4

M4 = Poor automated baseline construction.

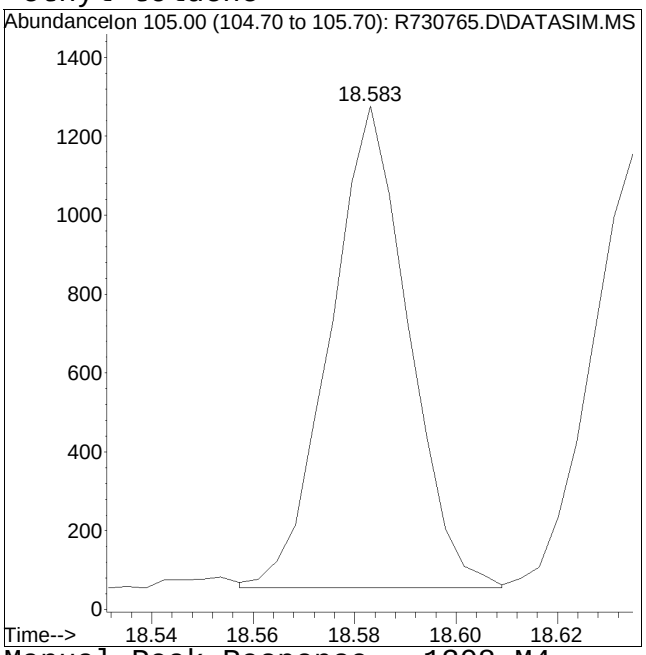
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 1283



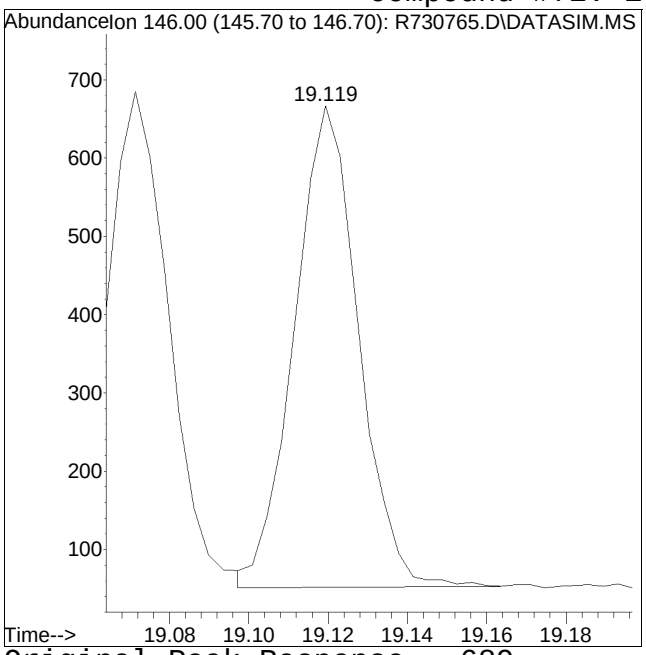
Manual Peak Response = 1308 M4

M4 = Poor automated baseline construction.

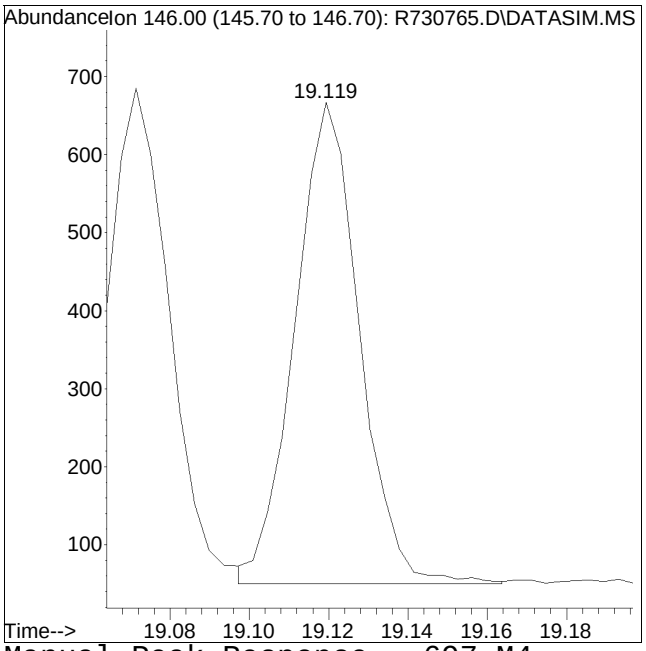
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730765.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 2:59 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.02 Quant Date : 3/29/2015 11:53 am

Compound #72: 1,4-dichlorobenzene



Original Peak Response = 689



Manual Peak Response = 697 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730766.D
Acq On : 28 Mar 2015 3:31 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.04
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:07:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.466	49	189806	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 99.65%			
32) 1,4-difluorobenzene	12.548	114	342280	10.000	ppbV	0.00
Standard Area = 343507			Recovery = 99.64%			
49) chlorobenzene-D5	16.835	54	103574	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 89.74%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.291	65	155169	10.046	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.46%			
51) toluene-D8	15.182	98	363330	10.465	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.65%			
64) bromofluorobenzene	18.007	95	220042	9.523	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.23%			
Target Compounds						Qvalue
2) propylene	4.745	41	649M6	0.037	ppbV	
3) dichlorodifluoromethane	4.844	85	1089	0.040	ppbV	89
4) chloromethane	5.061	50	917	0.052	ppbV #	83
5) Freon-114	5.208	85	1690	0.042	ppbV	98
6) vinyl chloride	5.366	62	615	0.041	ppbV #	75
7) 1,3-butadiene	5.554	54	518M4	0.040	ppbV	
8) bromomethane	5.914	94	585M4	0.043	ppbV	
9) chloroethane	6.146	64	287	0.042	ppbV #	49
10) ethanol	6.361	31	3404	0.210	ppbV	97
11) vinyl bromide	6.601	106	568M4	0.040	ppbV	
12) acetone	6.977	43	7994	0.252	ppbV #	94
13) trichlorofluoromethane	7.137	101	1859	0.041	ppbV	93
14) isopropyl alcohol	7.321	45	2112	0.062	ppbV #	85
15) acrylonitrile	7.512	53	554	0.042	ppbV #	92
16) 1,1-dichloroethene	7.896	61	1069	0.040	ppbV #	93
17) methylene chloride	8.048	49	3254	0.131	ppbV	99
18) 3-chloropropene	8.192	41	1047M3	0.039	ppbV	
19) carbon disulfide	8.368	76	1745	0.044	ppbV #	1
20) Freon 113	8.368	101	1294	0.041	ppbV	95
21) Halothane	8.907	117	1011	0.041	ppbV #	93
22) trans-1,2-dichloroethene	9.132	61	980	0.040	ppbV	95
23) 1,1-dichloroethane	9.358	63	1153	0.040	ppbV #	88
24) MTBE	9.505	73	1452	0.039	ppbV #	83

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730766.D
Acq On : 28 Mar 2015 3:31 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.04
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:07:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.551	43	1360M4	0.042	ppbV		
26) 2-butanone	9.868	43	2001	0.043	ppbV	#	92
27) cis-1,2-dichloroethene	10.288	61	835	0.040	ppbV	#	80
28) Ethyl Acetate	10.579	61	176	0.037	ppbV	#	45
29) chloroform	10.607	83	1218	0.040	ppbV	#	91
30) Tetrahydrofuran	11.112	42	911M4	0.039	ppbV		
31) 1,2-dichloroethane	11.411	62	1011	0.042	ppbV	#	81
33) hexane	10.513	57	936M4	0.040	ppbV		
35) 1,1,1-trichloroethane	11.677	97	1196	0.040	ppbV	#	78
36) benzene	12.175	78	1449	0.044	ppbV	#	85
37) carbon tetrachloride	12.340	117	1079	0.037	ppbV	#	95
38) cyclohexane	12.465	56	877	0.043	ppbV		91
39) 1,2-dichloropropane	13.066	63	745	0.039	ppbV	#	89
40) bromodichloromethane	13.273	83	1350	0.036	ppbV	#	97
41) 1,4-dioxane	13.407	88	382	0.034	ppbV		96
42) trichloroethene	13.314	130	863M4	0.035	ppbV		
43) 2,2,4-trimethylpentane	13.345	57	3307M6	0.034	ppbV		
44) heptane	13.625	43	1503	0.035	ppbV	#	98
45) cis-1,3-dichloropropene	14.262	75	730	0.031	ppbV	#	79
46) 4-methyl-2-pentanone	14.393	43	1994	0.032	ppbV	#	96
47) trans-1,3-dichloropropene	14.820	75	709	0.031	ppbV	#	72
48) 1,1,2-trichloroethane	15.010	97	717	0.036	ppbV		98
50) toluene	15.281	91	2250	0.043	ppbV		98
52) 2-hexanone	15.589	43	1768	0.034	ppbV	#	90
53) dibromochloromethane	15.688	129	1244	0.035	ppbV	#	95
54) 1,2-dibromoethane	15.914	107	1123	0.039	ppbV		97
55) tetrachloroethene	16.312	166	1070	0.040	ppbV		97
56) 1,1,1,2-tetrachloroethane	16.861	131	1065	0.040	ppbV		93
57) chlorobenzene	16.872	112	1703	0.040	ppbV	#	84
58) ethylbenzene	17.164	91	2302	0.034	ppbV		96
59) m+p-xylene	17.305	91	3437	0.065	ppbV		99
60) bromoform	17.382	173	960	0.031	ppbV		95
61) styrene	17.578	104	1158	0.030	ppbV		92
62) 1,1,2,2-tetrachloroethane	17.667	83	1503	0.040	ppbV		97
63) o-xylene	17.659	91	1828	0.032	ppbV		95
65) isopropylbenzene	18.099	105	2961	0.036	ppbV		98
66) 4-ethyl toluene	18.579	105	2426M6	0.029	ppbV		
67) 1,3,5-trimethylbenzene	18.635	105	2211	0.031	ppbV	#	96
68) tert-butylbenzene	18.942	119	2656	0.032	ppbV		95
69) 1,2,4-trimethylbenzene	18.939	105	2032	0.029	ppbV		94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730766.D
Acq On : 28 Mar 2015 3:31 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.04
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:07:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

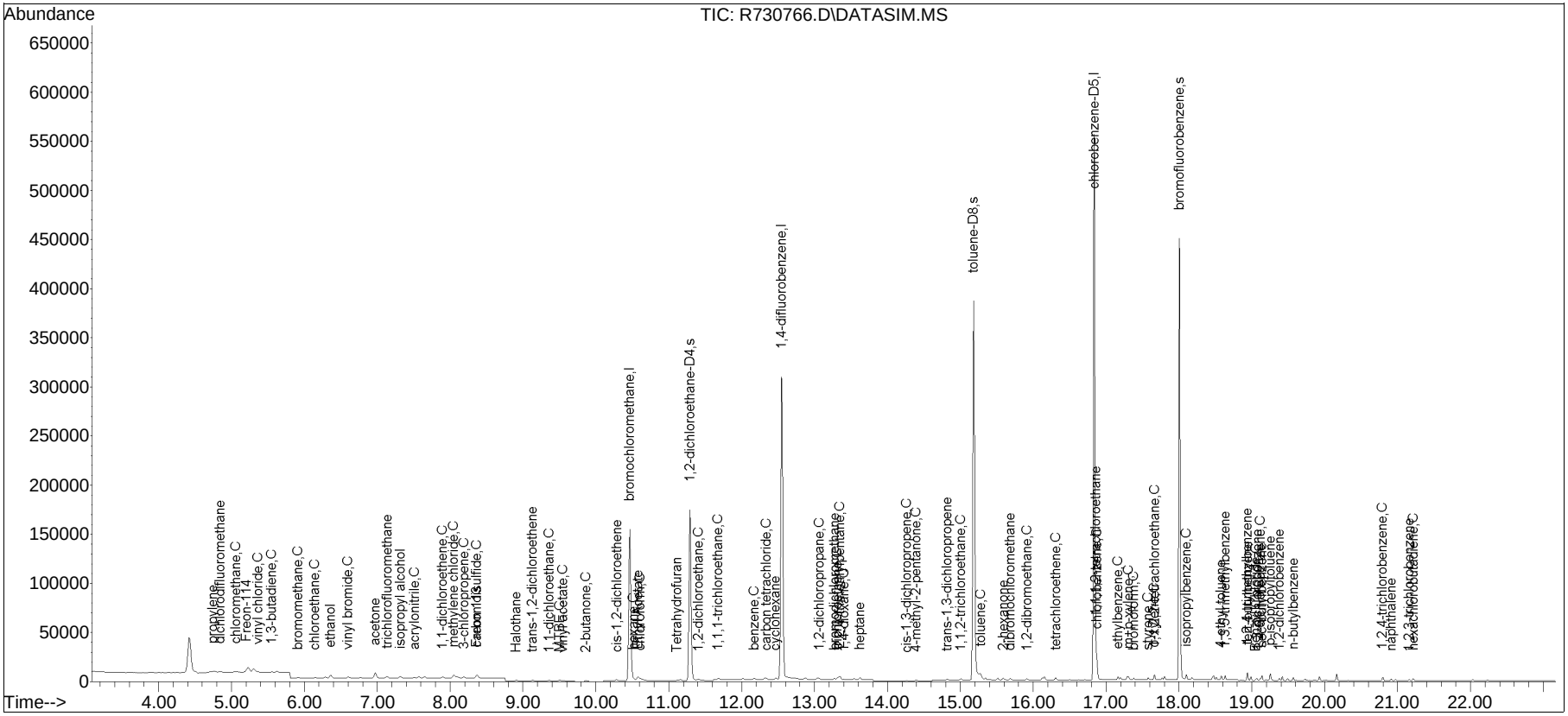
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Benzyl Chloride	19.053	91	981	0.026	ppbV	97
71) 1,3-dichlorobenzene	19.071	146	1393	0.032	ppbV	97
72) 1,4-dichlorobenzene	19.119	146	1387M4	0.033	ppbV	
73) sec-butylbenzene	19.138	105	3476	0.031	ppbV	99
74) p-isopropyltoluene	19.252	119	2870	0.029	ppbV	99
75) 1,2-dichlorobenzene	19.378	146	1346	0.032	ppbV #	92
76) n-butylbenzene	19.569	91	2247	0.028	ppbV	98
77) 1,2,4-trichlorobenzene	20.793	180	1118	0.032	ppbV #	85
78) naphthalene	20.913	128	2338	0.028	ppbV #	95
79) 1,2,3-trichlorobenzene	21.162	180	1136	0.032	ppbV	97
80) hexachlorobutadiene	21.213	225	1616	0.034	ppbV #	92

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730766.D
Acq On : 28 Mar 2015 3:31 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.04
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

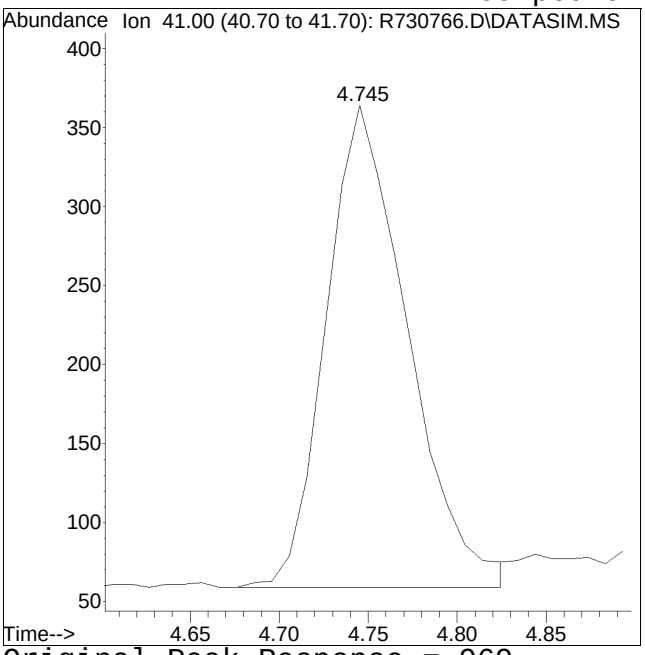
Quant Time: Mar 29 12:07:56 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration



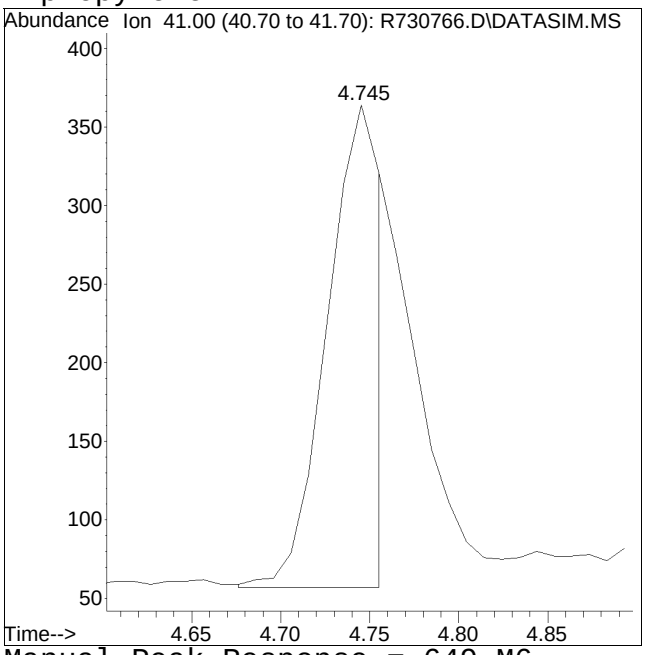
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 969



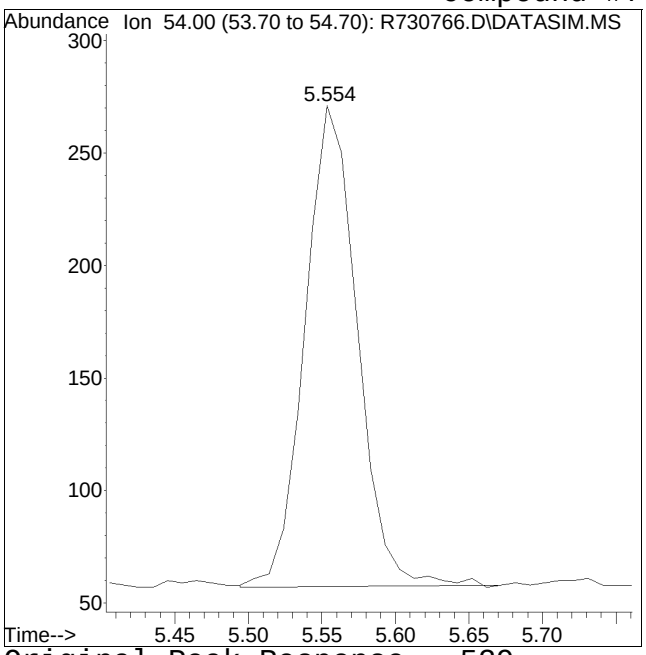
Manual Peak Response = 649 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

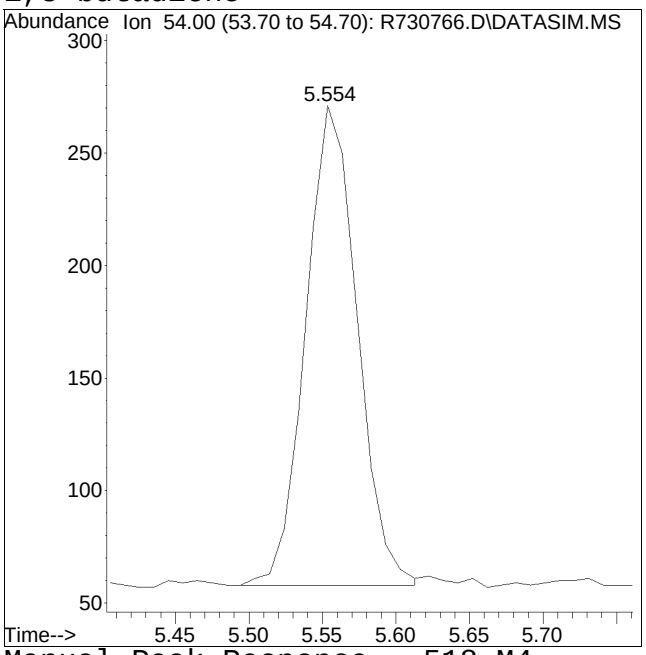
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 529



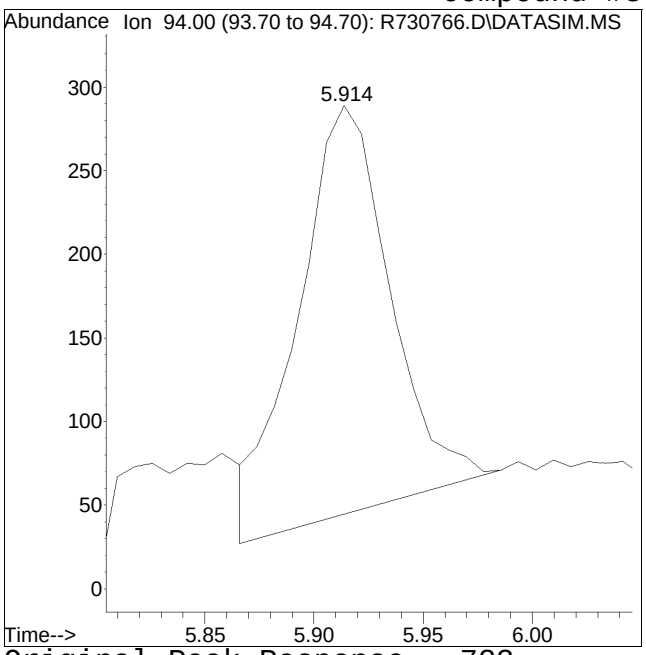
Manual Peak Response = 518 M4

M4 = Poor automated baseline construction.

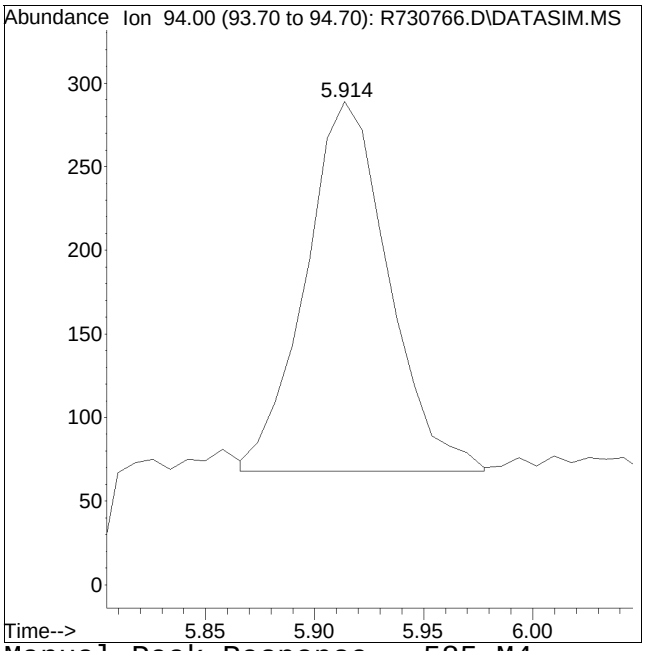
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #8: bromomethane



Original Peak Response = 723



Manual Peak Response = 585 M4

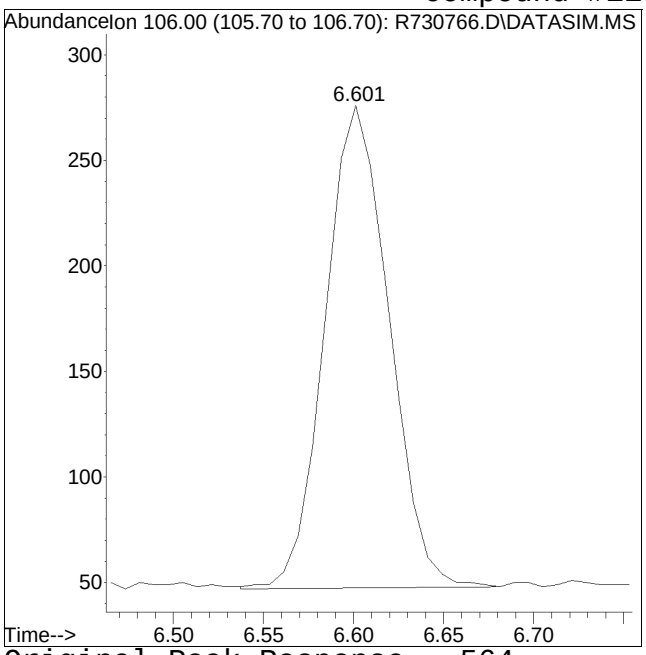
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

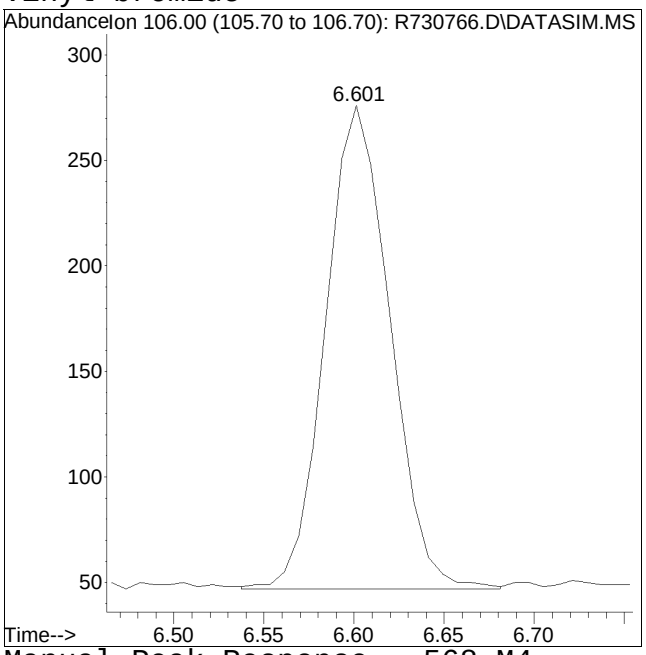
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730766.D
Date Inj'd : 3/28/2015 3:31 pm
Sample : ITO15-SIMSTD0.04

Method : TSIM150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 11:53 am

Compound #11: vinyl bromide



Original Peak Response = 564



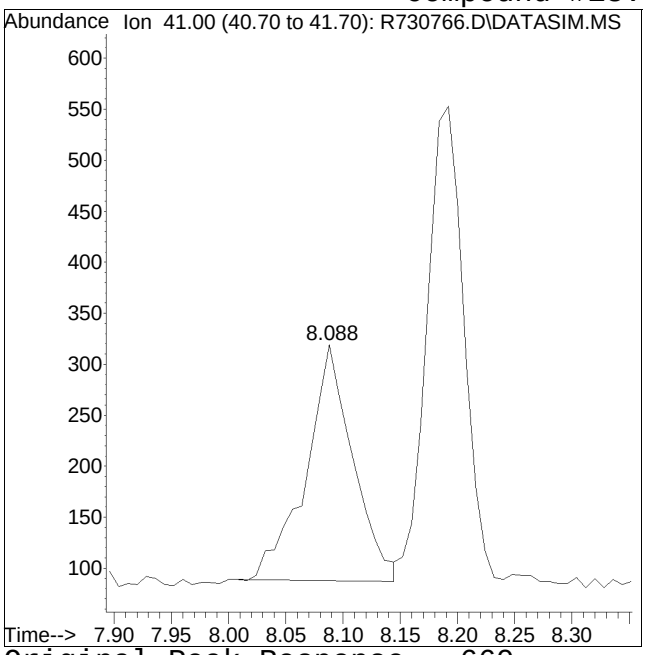
Manual Peak Response = 568 M4

M4 = Poor automated baseline construction.

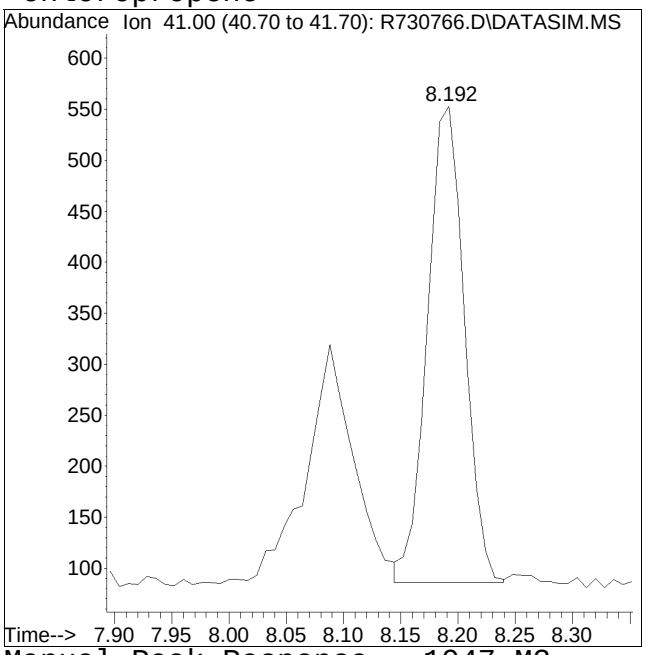
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #18: 3-chloropropene



Original Peak Response = 660



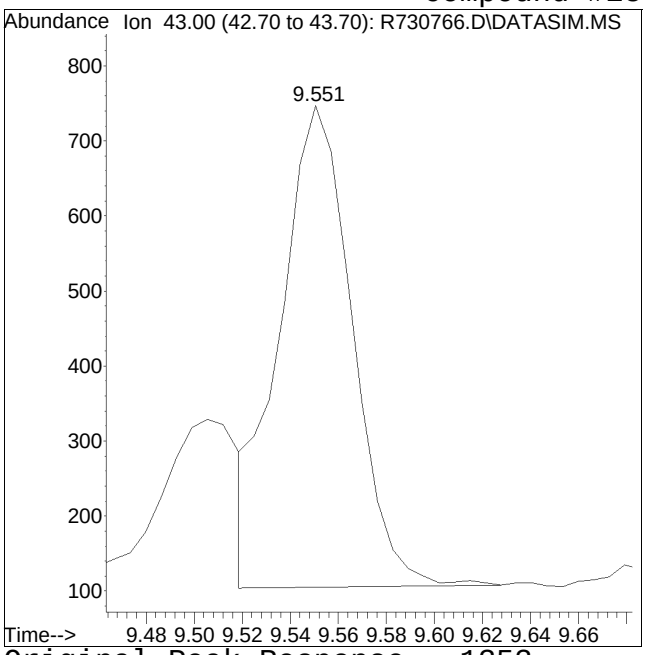
Manual Peak Response = 1047 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

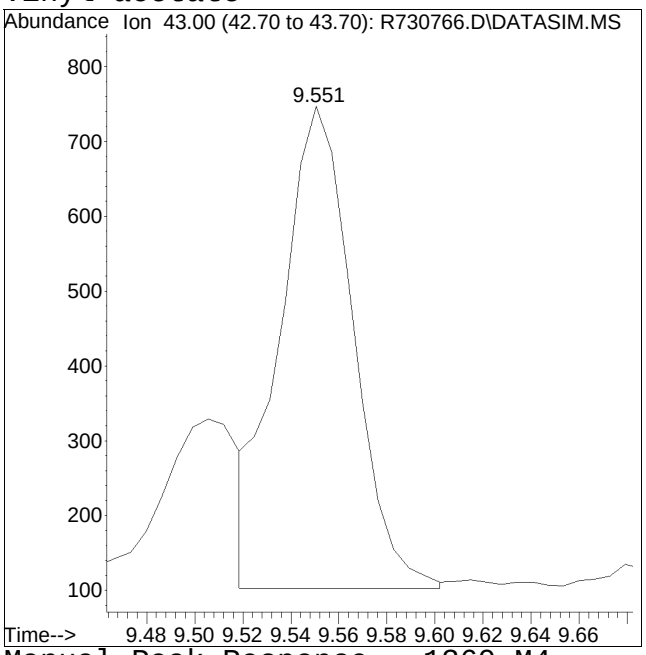
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #25: vinyl acetate



Original Peak Response = 1353



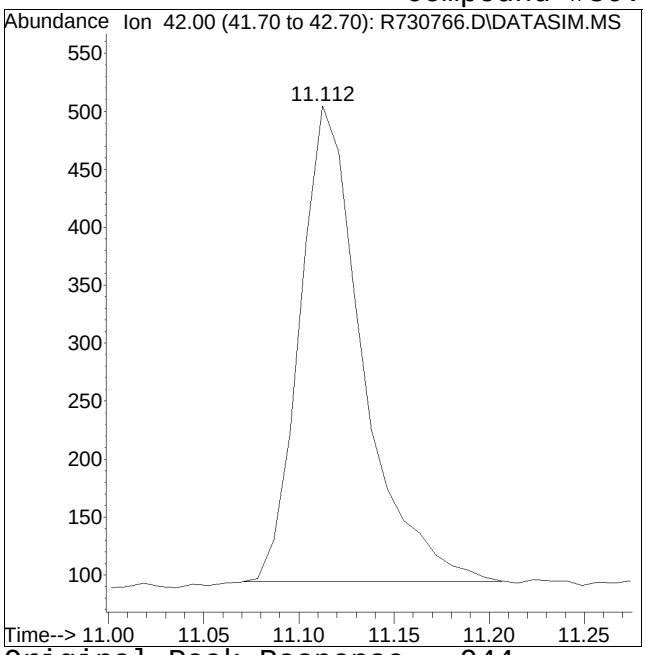
Manual Peak Response = 1360 M4

M4 = Poor automated baseline construction.

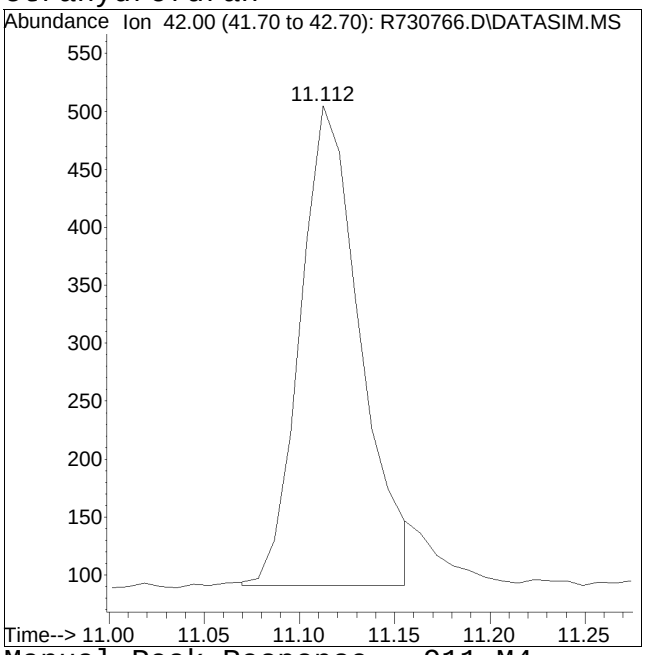
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #30: Tetrahydrofuran



Original Peak Response = 944



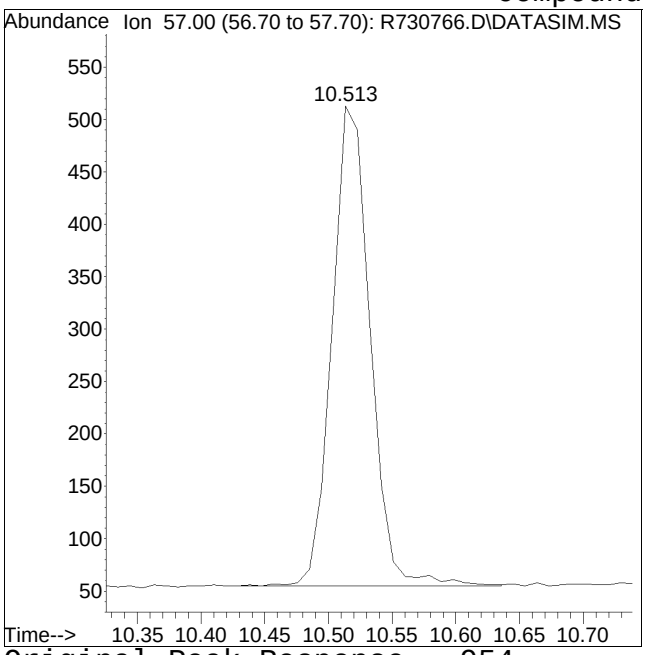
Manual Peak Response = 911 M4

M4 = Poor automated baseline construction.

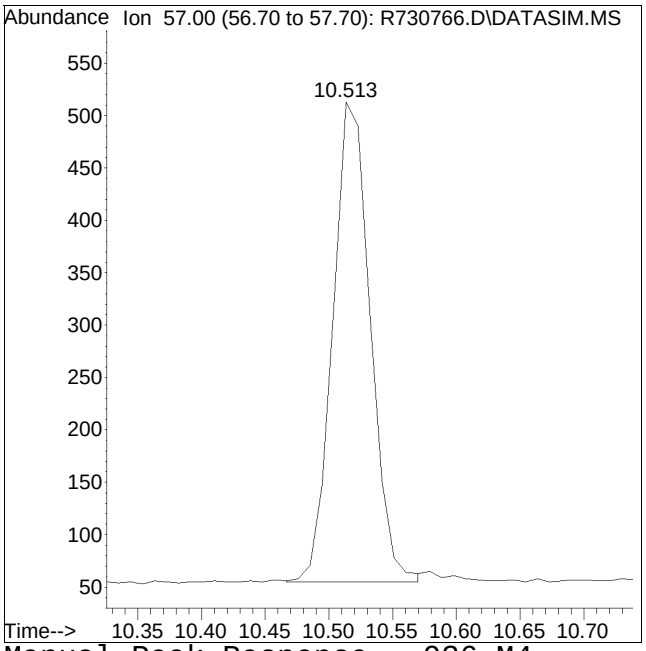
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #33: hexane



Original Peak Response = 954



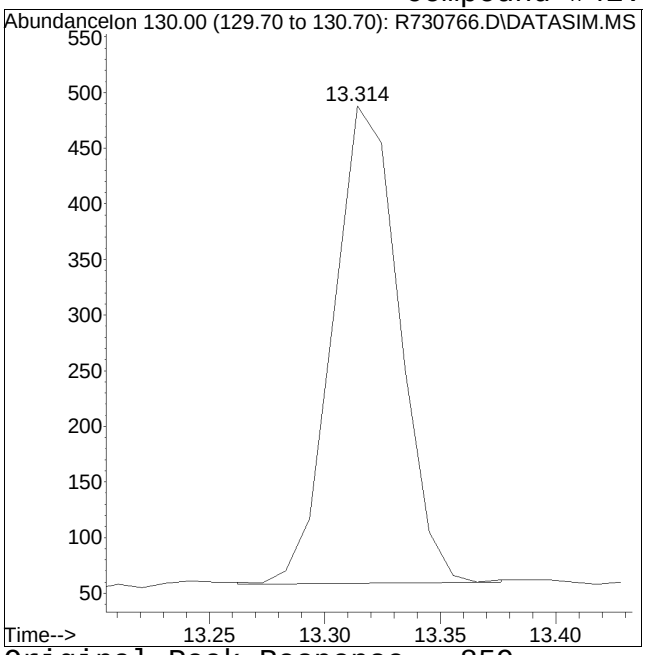
Manual Peak Response = 936 M4

M4 = Poor automated baseline construction.

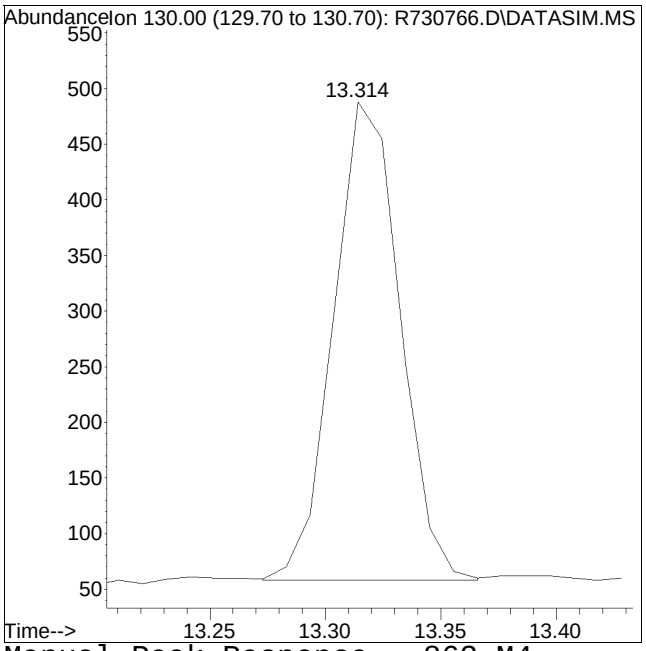
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #42: trichloroethene



Original Peak Response = 859



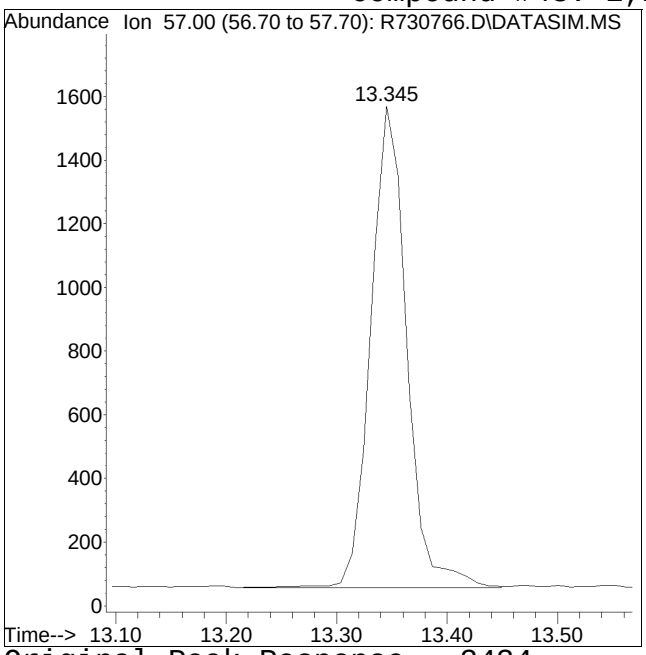
Manual Peak Response = 863 M4

M4 = Poor automated baseline construction.

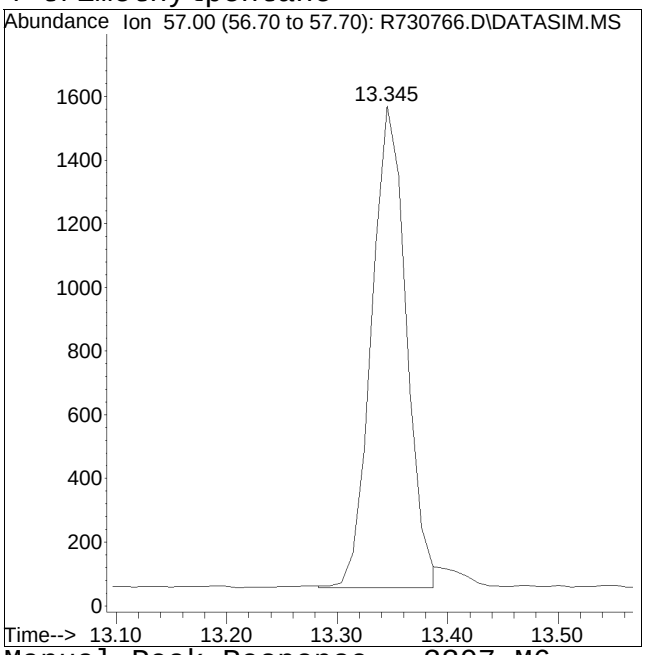
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #43: 2,2,4-trimethylpentane



Original Peak Response = 3434



Manual Peak Response = 3307 M6

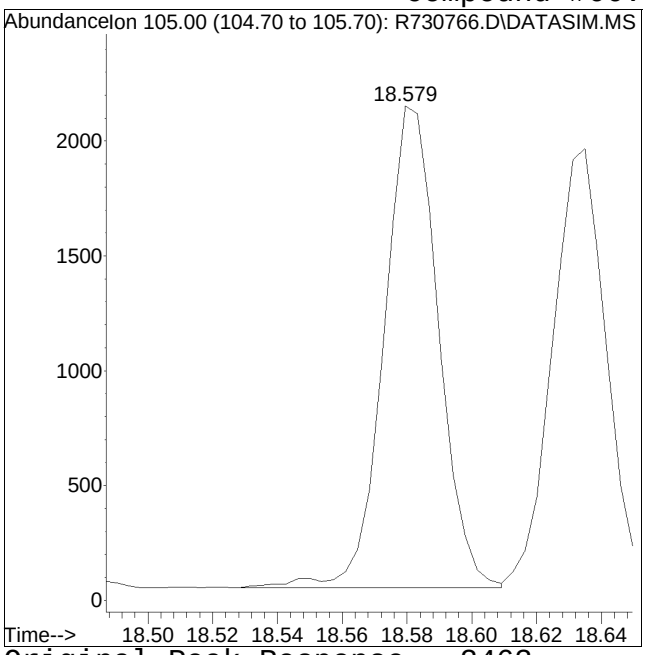
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

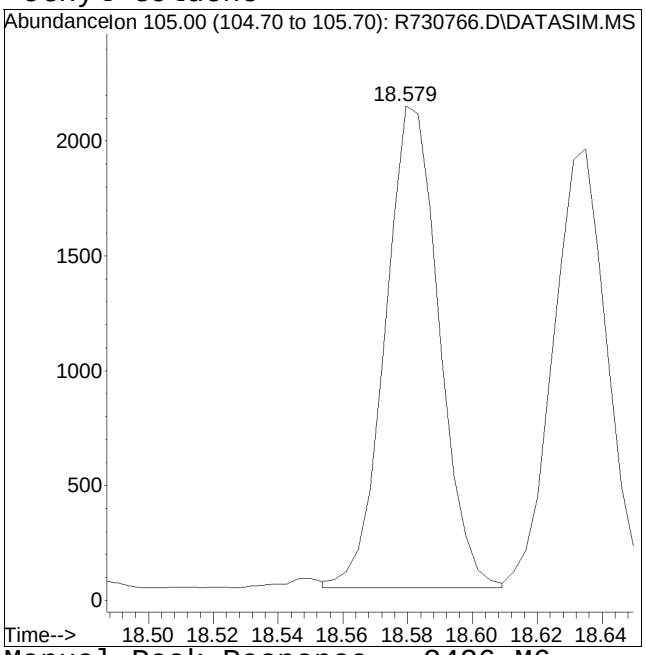
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730766.D
Date Inj'd : 3/28/2015 3:31 pm
Sample : ITO15-SIMSTD0.04

Method : TSIM150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 2463



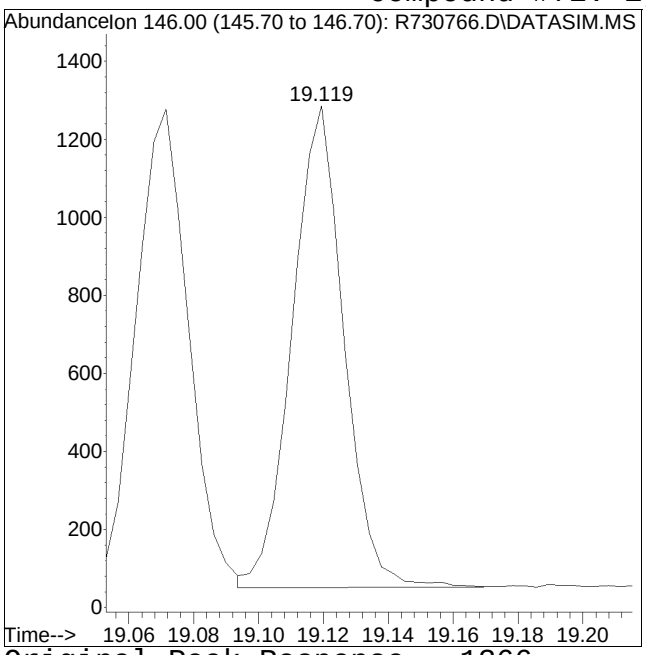
Manual Peak Response = 2426 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

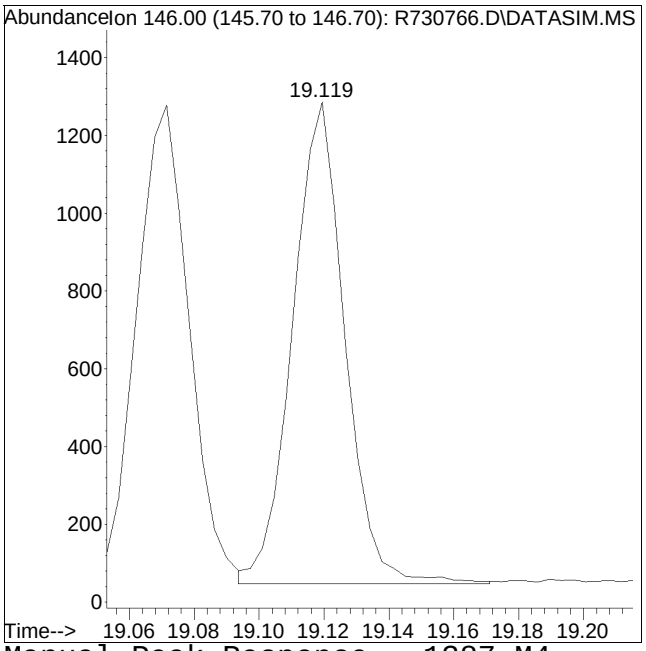
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730766.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 3:31 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.04 Quant Date : 3/29/2015 11:53 am

Compound #72: 1,4-dichlorobenzene



Original Peak Response = 1366



Manual Peak Response = 1387 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730767.D
Acq On : 28 Mar 2015 4:05 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.1
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:17:53 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.467	49	189450	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 99.47%			
32) 1,4-difluorobenzene	12.548	114	340734	10.000	ppbV	0.00
Standard Area = 343507			Recovery = 99.19%			
49) chlorobenzene-D5	16.835	54	102103	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 88.46%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.291	65	154732	10.063	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.63%			
51) toluene-D8	15.182	98	358263	10.467	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.67%			
64) bromofluorobenzene	18.003	95	219145	9.621	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.21%			
Target Compounds						Qvalue
2) propylene	4.745	41	1792M6	0.101	ppbV	
3) dichlorodifluoromethane	4.844	85	2650	0.097	ppbV	95
4) chloromethane	5.061	50	1910	0.108	ppbV	90
5) Freon-114	5.209	85	4096	0.102	ppbV	97
6) vinyl chloride	5.366	62	1444	0.096	ppbV #	87
7) 1,3-butadiene	5.554	54	1221M6	0.095	ppbV	
8) bromomethane	5.914	94	1398M4	0.104	ppbV	
9) chloroethane	6.146	64	669	0.098	ppbV #	79
10) ethanol	6.353	31	7763M3	0.479	ppbV	
11) vinyl bromide	6.601	106	1332	0.095	ppbV	96
12) acetone	6.969	43	17254	0.545	ppbV #	96
13) trichlorofluoromethane	7.129	101	4484	0.099	ppbV	99
14) isopropyl alcohol	7.313	45	3913	0.115	ppbV #	93
15) acrylonitrile	7.505	53	1251	0.096	ppbV	95
16) 1,1-dichloroethene	7.896	61	2586	0.098	ppbV	97
17) methylene chloride	8.048	49	4693	0.189	ppbV	98
18) 3-chloropropene	8.192	41	2492	0.092	ppbV #	94
19) carbon disulfide	8.368	76	3858	0.098	ppbV #	15
20) Freon 113	8.368	101	3138	0.099	ppbV	98
21) Halothane	8.907	117	2351	0.096	ppbV	96
22) trans-1,2-dichloroethene	9.133	61	2340	0.095	ppbV	98
23) 1,1-dichloroethane	9.358	63	2752	0.097	ppbV	95
24) MTBE	9.493	73	3440	0.093	ppbV #	91

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730767.D
Acq On : 28 Mar 2015 4:05 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.1
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:17:53 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.551	43	2783	0.086	ppbV	#	92
26) 2-butanone	9.859	43	4567	0.097	ppbV	#	97
27) cis-1,2-dichloroethene	10.279	61	1969	0.094	ppbV		95
28) Ethyl Acetate	10.579	61	430	0.090	ppbV	#	33
29) chloroform	10.607	83	2922	0.096	ppbV		96
30) Tetrahydrofuran	11.104	42	2143M6	0.091	ppbV		
31) 1,2-dichloroethane	11.411	62	2393	0.101	ppbV	#	92
33) hexane	10.513	57	2219M4	0.094	ppbV		
35) 1,1,1-trichloroethane	11.678	97	2808	0.095	ppbV	#	92
36) benzene	12.175	78	3213	0.098	ppbV		95
37) carbon tetrachloride	12.340	117	2512	0.088	ppbV		97
38) cyclohexane	12.465	56	1960	0.097	ppbV		96
39) 1,2-dichloropropane	13.066	63	1671	0.089	ppbV		97
40) bromodichloromethane	13.273	83	3172	0.084	ppbV		97
41) 1,4-dioxane	13.387	88	905	0.081	ppbV		99
42) trichloroethene	13.314	130	2101M4	0.086	ppbV		
43) 2,2,4-trimethylpentane	13.345	57	8194	0.086	ppbV	#	92
44) heptane	13.625	43	3477	0.082	ppbV		99
45) cis-1,3-dichloropropene	14.263	75	1719	0.073	ppbV		88
46) 4-methyl-2-pentanone	14.376	43	4822	0.079	ppbV	#	98
47) trans-1,3-dichloropropene	14.820	75	1619	0.071	ppbV	#	84
48) 1,1,2-trichloroethane	15.010	97	1753	0.088	ppbV		96
50) toluene	15.281	91	5083	0.097	ppbV		99
52) 2-hexanone	15.571	43	4188	0.082	ppbV		88
53) dibromochloromethane	15.688	129	2948	0.084	ppbV		98
54) 1,2-dibromoethane	15.914	107	2611	0.093	ppbV		97
55) tetrachloroethene	16.312	166	2509	0.096	ppbV		94
56) 1,1,1,2-tetrachloroethane	16.861	131	2532	0.097	ppbV		98
57) chlorobenzene	16.872	112	4007	0.095	ppbV		97
58) ethylbenzene	17.164	91	5482	0.082	ppbV		99
59) m+p-xylene	17.305	91	8318M1	0.159	ppbV		
60) bromoform	17.379	173	2357	0.076	ppbV		98
61) styrene	17.578	104	2743	0.072	ppbV		98
62) 1,1,2,2-tetrachloroethane	17.667	83	3602	0.098	ppbV		100
63) o-xylene	17.659	91	4506	0.080	ppbV		100
65) isopropylbenzene	18.099	105	7054	0.086	ppbV		99
66) 4-ethyl toluene	18.580	105	5893M4	0.072	ppbV		
67) 1,3,5-trimethylbenzene	18.631	105	5415	0.076	ppbV	#	98
68) tert-butylbenzene	18.939	119	6527	0.079	ppbV		99
69) 1,2,4-trimethylbenzene	18.935	105	4940	0.071	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730767.D
Acq On : 28 Mar 2015 4:05 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.1
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 12:17:53 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

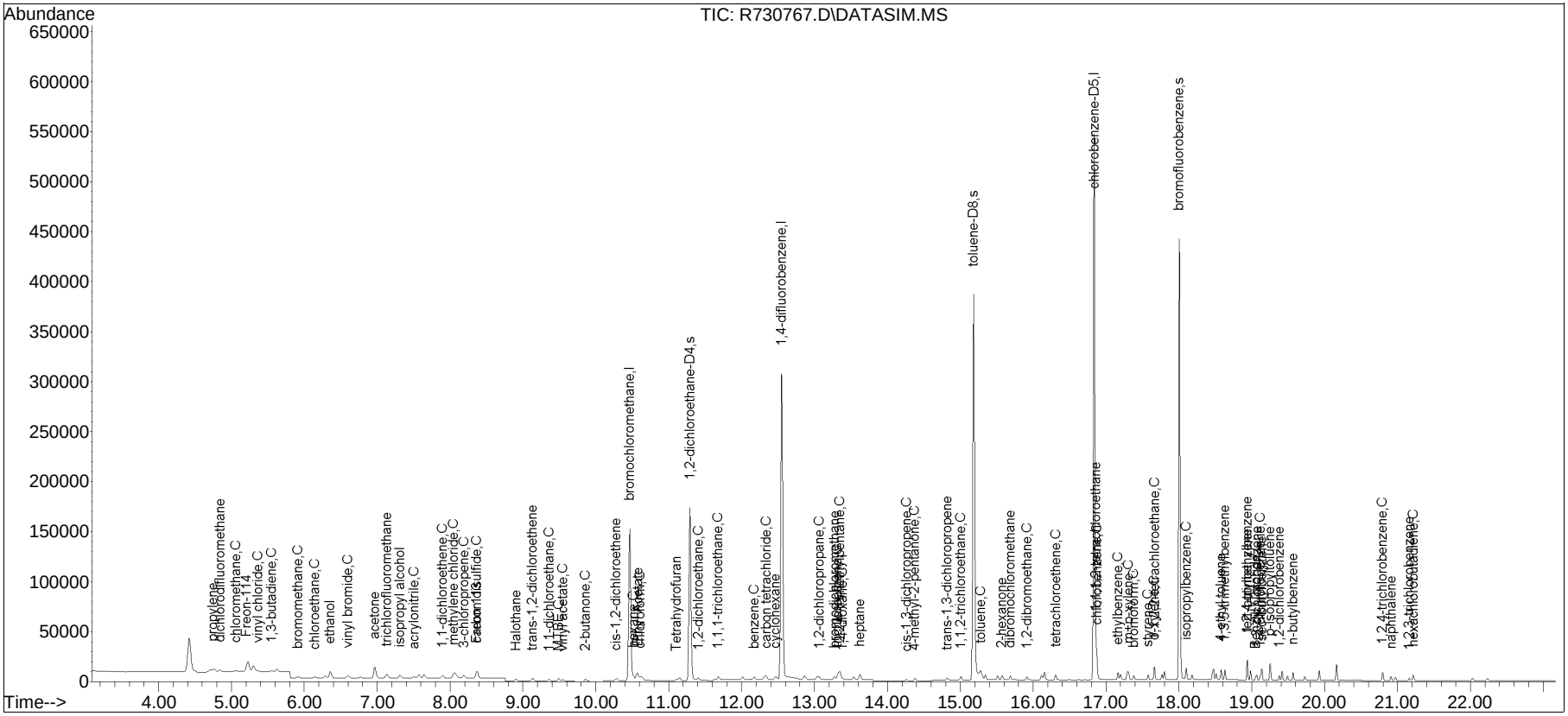
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) Benzyl Chloride	19.053	91	2285	0.062	ppbV		98
71) 1,3-dichlorobenzene	19.068	146	3407	0.081	ppbV		97
72) 1,4-dichlorobenzene	19.116	146	3323	0.080	ppbV		99
73) sec-butylbenzene	19.138	105	8635	0.078	ppbV		97
74) p-isopropyltoluene	19.249	119	7064	0.072	ppbV		100
75) 1,2-dichlorobenzene	19.378	146	3257	0.078	ppbV		98
76) n-butylbenzene	19.566	91	5612	0.071	ppbV		98
77) 1,2,4-trichlorobenzene	20.793	180	2495	0.072	ppbV	#	91
78) naphthalene	20.913	128	5256	0.063	ppbV		100
79) 1,2,3-trichlorobenzene	21.162	180	2492	0.071	ppbV		96
80) hexachlorobutadiene	21.213	225	3908	0.083	ppbV		96

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730767.D
Acq On : 28 Mar 2015 4:05 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.1
Misc : WG771894
ALS Vial : 5 Sample Multiplier: 1

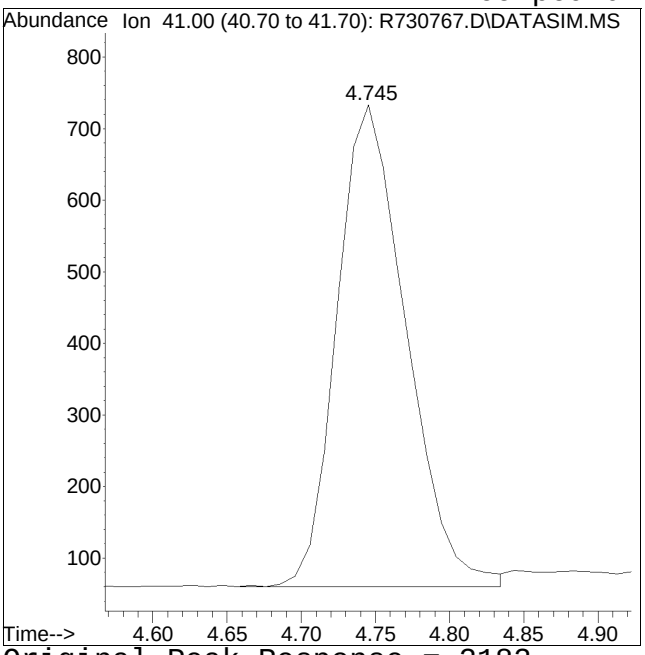
Quant Time: Mar 29 12:17:53 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration



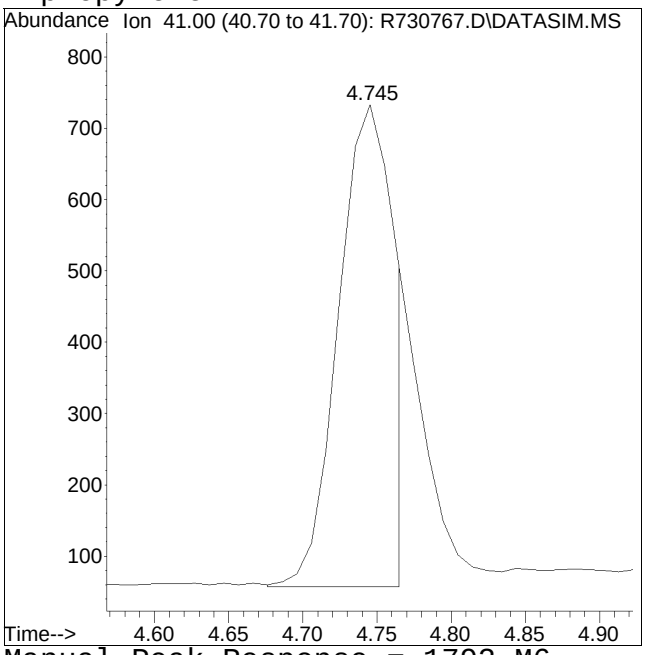
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730767.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:05 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.1 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 2182



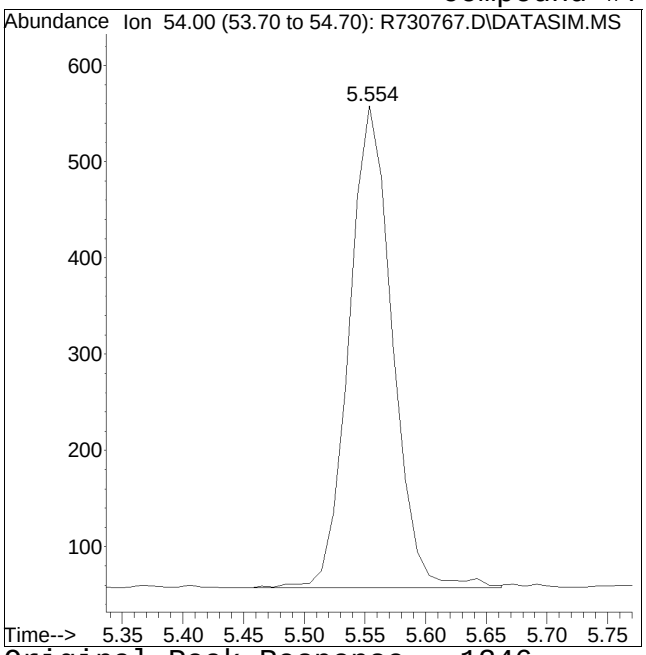
Manual Peak Response = 1792 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

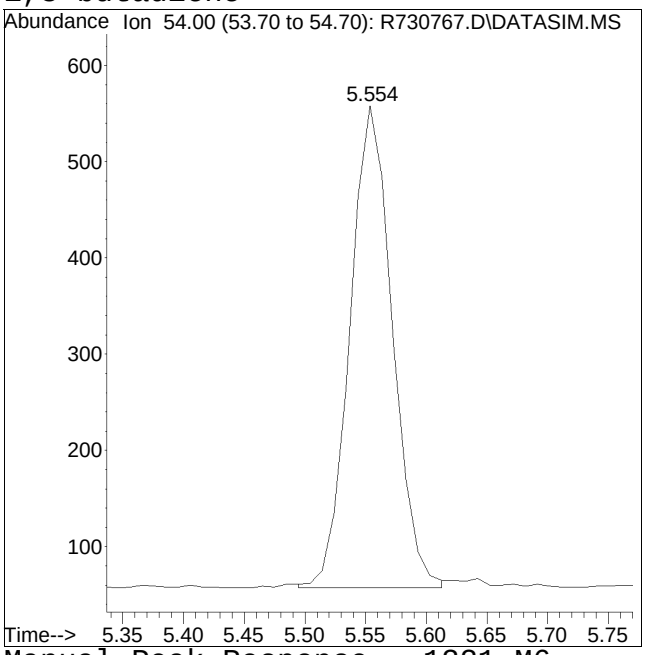
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730767.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:05 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.1 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 1246



Manual Peak Response = 1221 M6

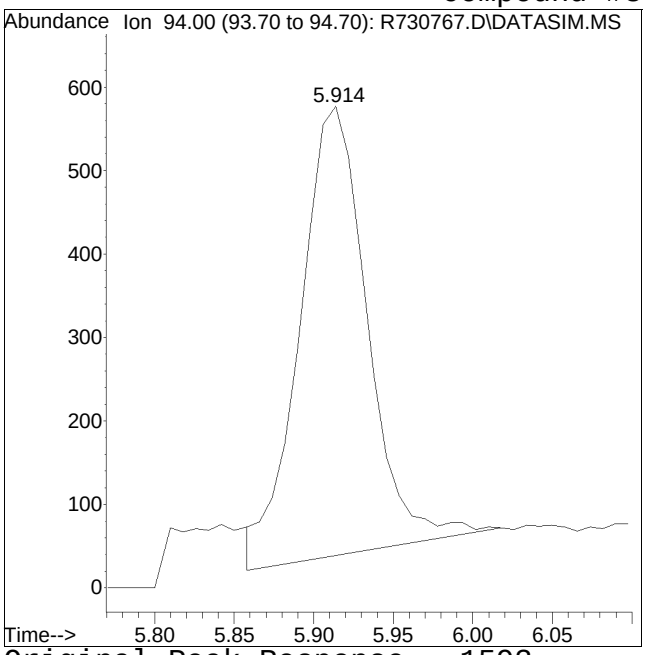
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

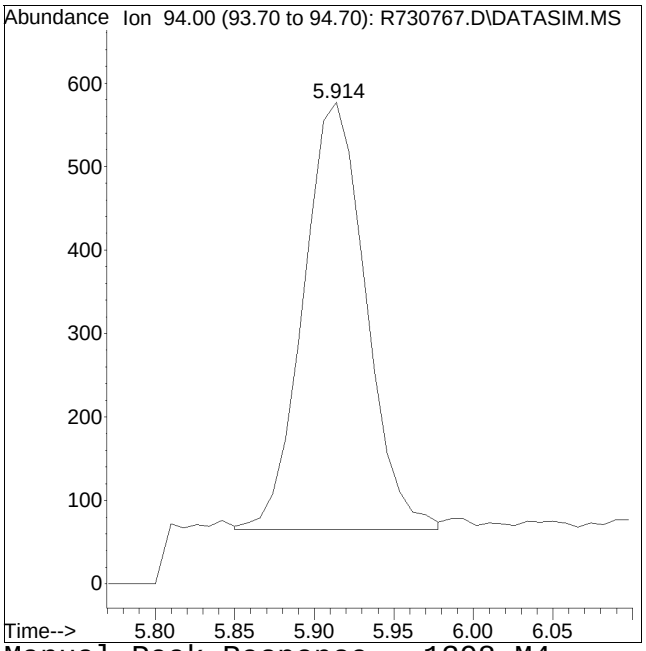
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730767.D
Date Inj'd : 3/28/2015 4:05 pm
Sample : ITO15-SIMSTD0.1

Method : TSIM150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 11:53 am

Compound #8: bromomethane



Original Peak Response = 1593



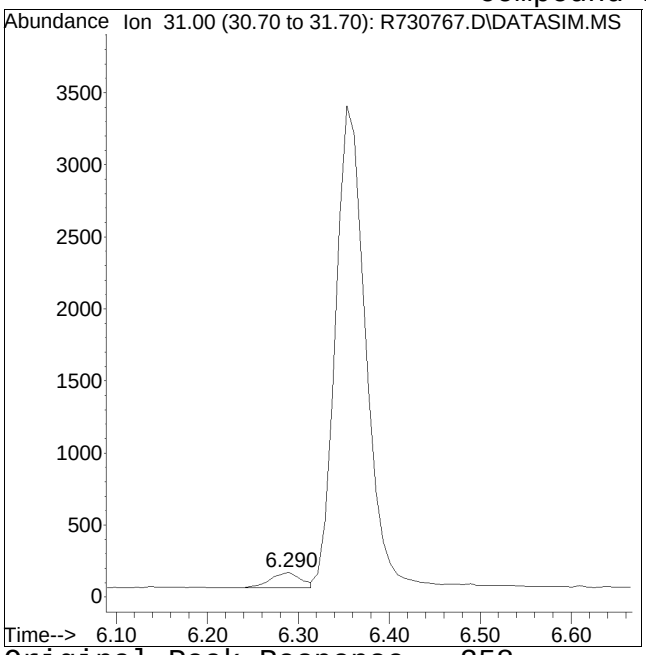
Manual Peak Response = 1398 M4

M4 = Poor automated baseline construction.

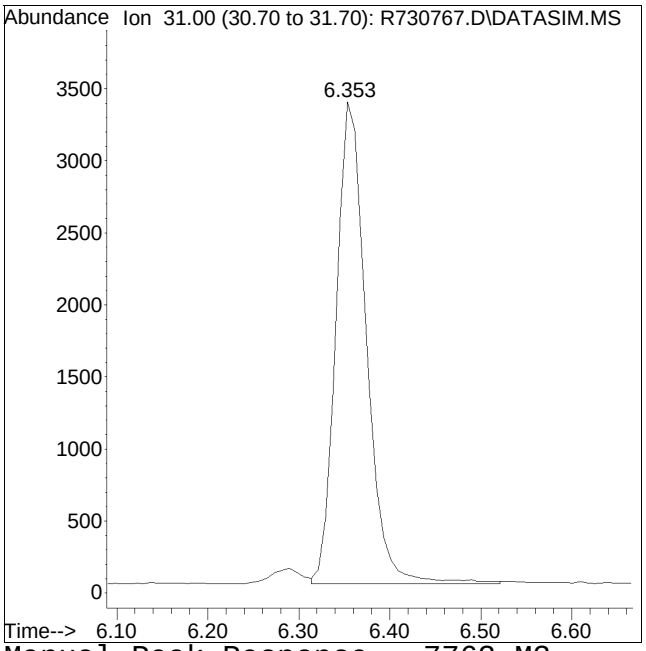
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730767.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:05 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.1 Quant Date : 3/29/2015 11:53 am

Compound #10: ethanol



Original Peak Response = 258



Manual Peak Response = 7763 M3

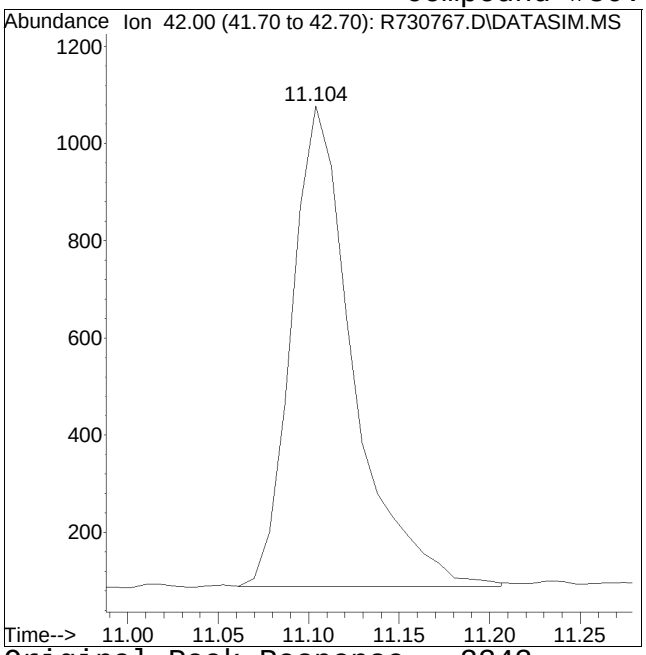
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

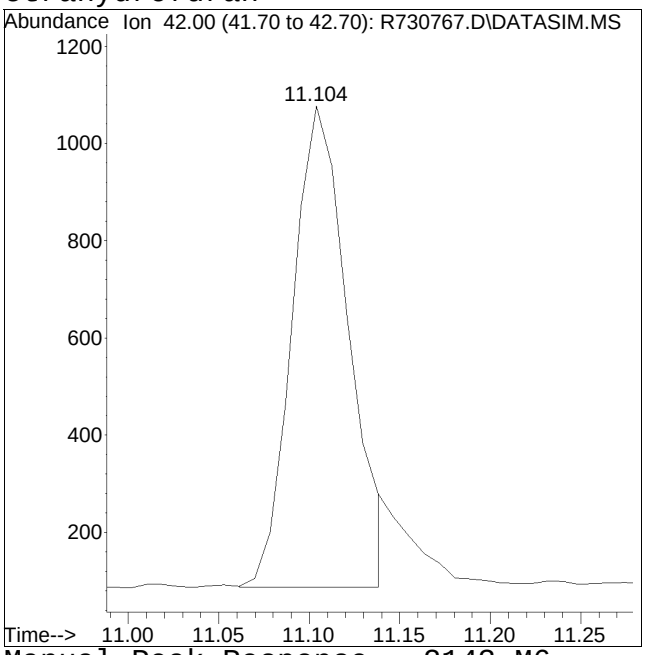
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730767.D
Date Inj'd : 3/28/2015 4:05 pm
Sample : ITO15-SIMSTD0.1

Method : TSIM150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 11:53 am

Compound #30: Tetrahydrofuran



Original Peak Response = 2343



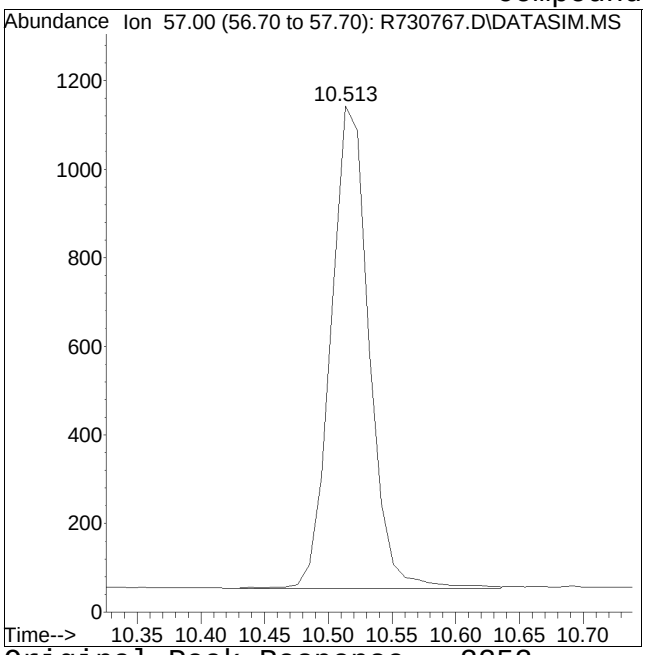
Manual Peak Response = 2143 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

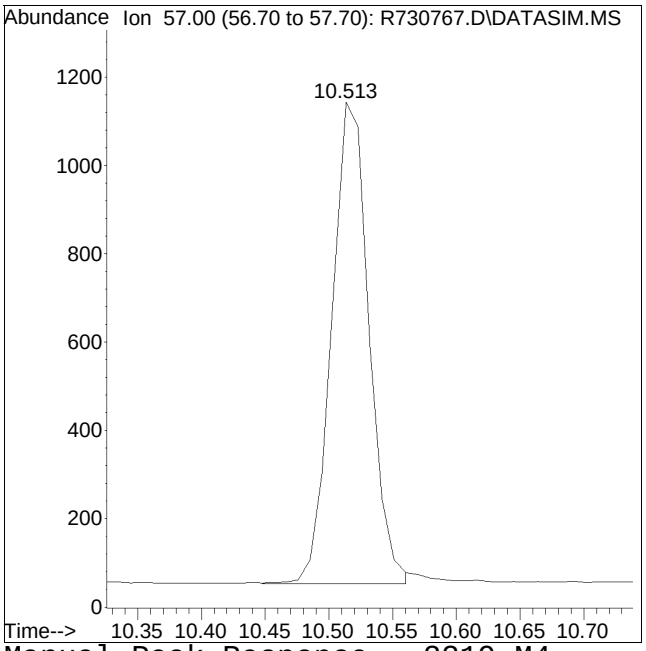
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730767.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:05 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.1 Quant Date : 3/29/2015 11:53 am

Compound #33: hexane



Original Peak Response = 2252



Manual Peak Response = 2219 M4

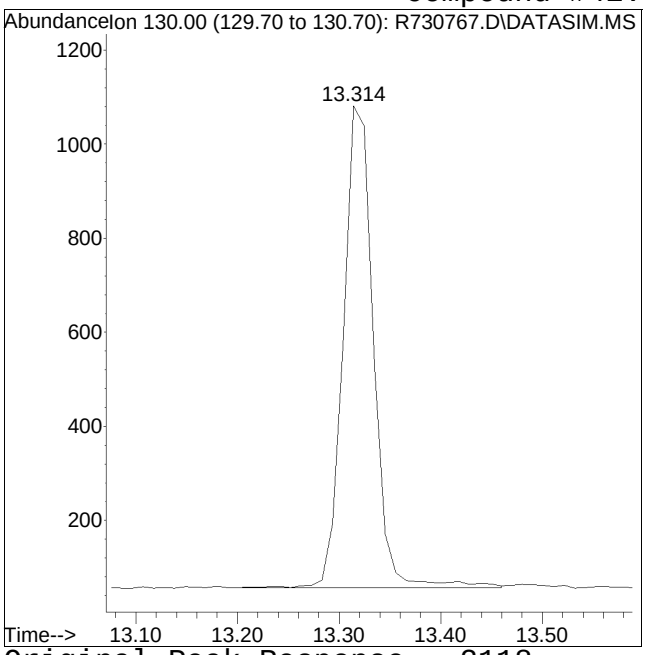
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

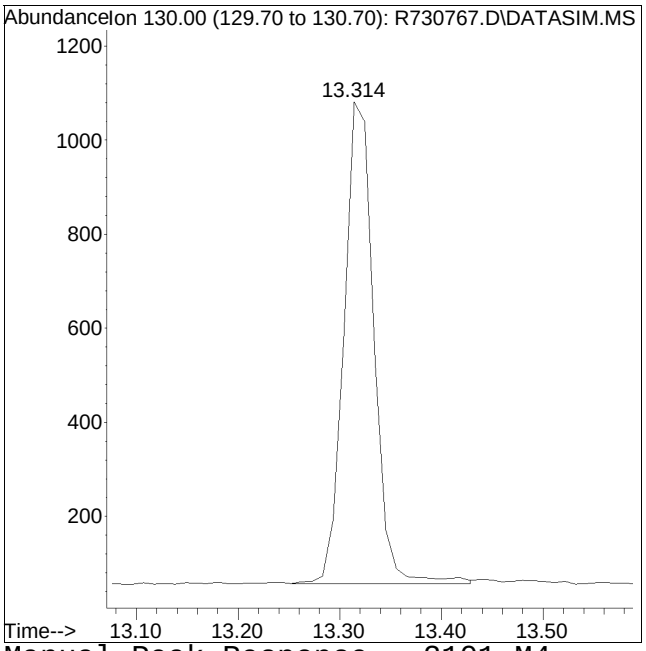
Data Path : O:\Forensics\Data\Airlab7\2Q
Data File : R730767.D
Date Inj'd : 3/28/2015 4:05 pm
Sample : ITO15-SIMSTD0.1

Method : TSIM150328.M
Operator : AIRLAB7:MB
Instrument : Airlab 7
Quant Date : 3/29/2015 11:53 am

Compound #42: trichloroethene



Original Peak Response = 2118



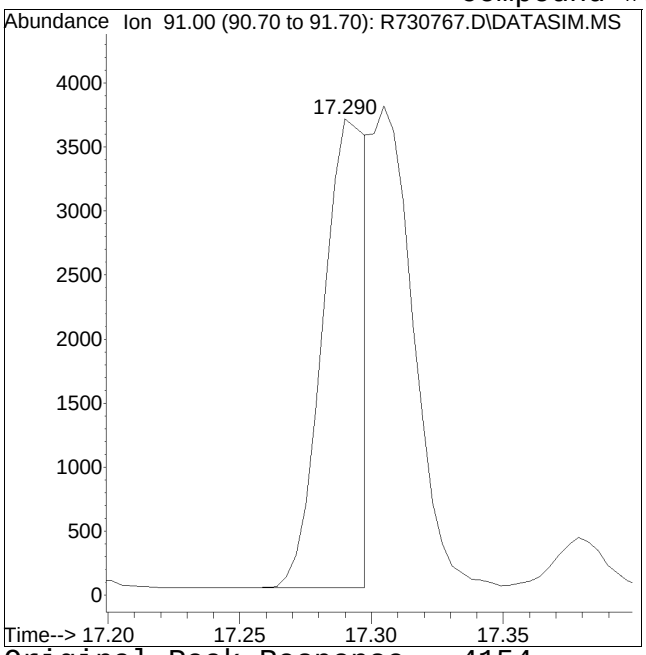
Manual Peak Response = 2101 M4

M4 = Poor automated baseline construction.

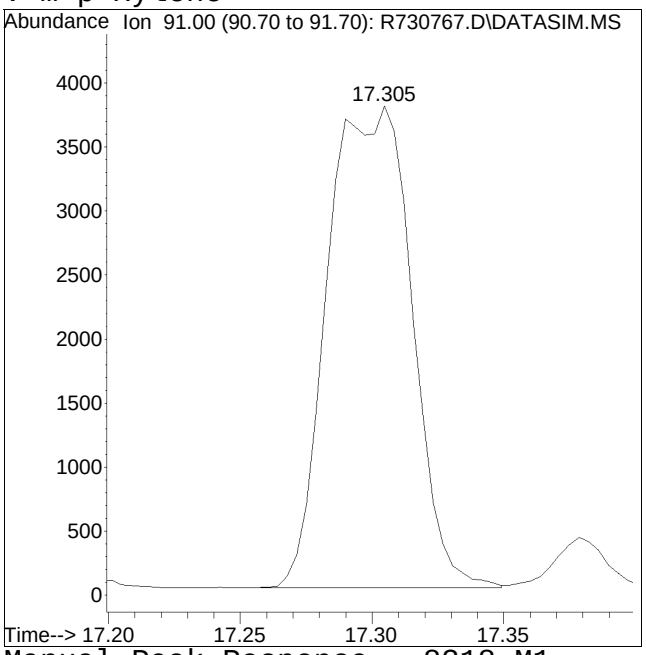
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730767.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:05 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.1 Quant Date : 3/29/2015 11:53 am

Compound #59: m+p-xylene



Original Peak Response = 4154



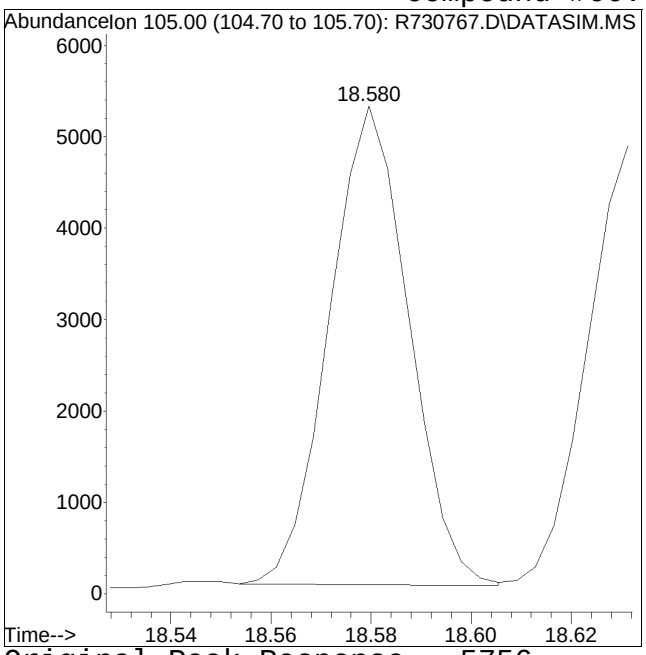
Manual Peak Response = 8318 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

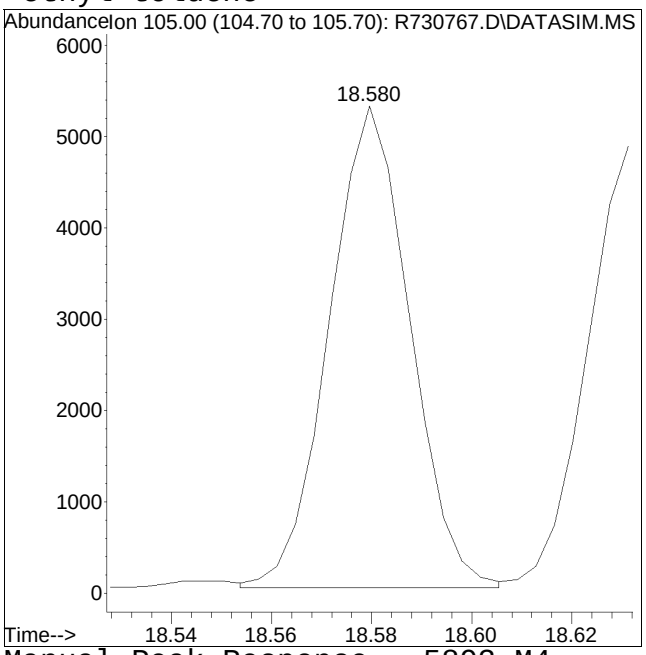
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730767.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:05 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.1 Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 5756



Manual Peak Response = 5893 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:19:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.467	49	188932	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 99.19%			
32) 1,4-difluorobenzene	12.548	114	339200	10.000	ppbV	0.00
Standard Area = 343507			Recovery = 98.75%			
49) chlorobenzene-D5	16.835	54	102525	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 88.83%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.291	65	154477	10.092	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.92%			
51) toluene-D8	15.182	98	360246	10.482	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.82%			
64) bromofluorobenzene	18.003	95	222163	9.713	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.13%			
Target Compounds						Qvalue
2) propylene	4.745	41	3881M6	0.220	ppbV	
3) dichlorodifluoromethane	4.844	85	6520	0.240	ppbV	96
4) chloromethane	5.061	50	4047	0.230	ppbV	94
5) Freon-114	5.208	85	9086	0.227	ppbV	99
6) vinyl chloride	5.366	62	3250	0.217	ppbV	97
7) 1,3-butadiene	5.553	54	2701M6	0.211	ppbV	
8) bromomethane	5.914	94	2998M4	0.223	ppbV	
9) chloroethane	6.145	64	1514	0.223	ppbV	91
10) ethanol	6.353	31	16741	1.036	ppbV	97
11) vinyl bromide	6.601	106	3045	0.217	ppbV	99
12) acetone	6.953	43	36491	1.156	ppbV #	100
13) trichlorofluoromethane	7.129	101	10070	0.222	ppbV	99
14) isopropyl alcohol	7.305	45	7844	0.232	ppbV #	96
15) acrylonitrile	7.504	53	2813	0.217	ppbV	98
16) 1,1-dichloroethene	7.896	61	5788	0.220	ppbV	96
17) methylene chloride	8.048	49	7618	0.307	ppbV	98
18) 3-chloropropene	8.184	41	5696	0.212	ppbV	97
19) carbon disulfide	8.368	76	8416	0.215	ppbV #	60
20) Freon 113	8.368	101	7066	0.224	ppbV	98
21) Halothane	8.907	117	5363	0.219	ppbV	98
22) trans-1,2-dichloroethene	9.132	61	5306	0.217	ppbV	99
23) 1,1-dichloroethane	9.357	63	6250	0.220	ppbV	98
24) MTBE	9.480	73	7792	0.211	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:19:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.550	43	6209M3	0.193	ppbV		
26) 2-butanone	9.847	43	10190	0.217	ppbV		99
27) cis-1,2-dichloroethene	10.279	61	4540	0.218	ppbV		98
28) Ethyl Acetate	10.570	61	973	0.205	ppbV	#	46
29) chloroform	10.607	83	6640	0.218	ppbV		99
30) Tetrahydrofuran	11.095	42	5109M6	0.219	ppbV		
31) 1,2-dichloroethane	11.411	62	5207	0.220	ppbV		97
33) hexane	10.513	57	5009	0.214	ppbV	#	10
35) 1,1,1-trichloroethane	11.678	97	6261	0.212	ppbV		97
36) benzene	12.175	78	7184	0.221	ppbV		96
37) carbon tetrachloride	12.340	117	5809	0.203	ppbV		97
38) cyclohexane	12.465	56	4470	0.222	ppbV		97
39) 1,2-dichloropropane	13.066	63	3780	0.202	ppbV		99
40) bromodichloromethane	13.273	83	7356	0.196	ppbV		99
41) 1,4-dioxane	13.376	88	2138	0.192	ppbV		92
42) trichloroethene	13.314	130	4960	0.204	ppbV		98
43) 2,2,4-trimethylpentane	13.345	57	18799	0.198	ppbV		93
44) heptane	13.625	43	7996	0.190	ppbV		100
45) cis-1,3-dichloropropene	14.262	75	4053	0.174	ppbV		95
46) 4-methyl-2-pentanone	14.364	43	11272	0.185	ppbV		99
47) trans-1,3-dichloropropene	14.821	75	3847	0.170	ppbV		90
48) 1,1,2-trichloroethane	15.010	97	4056	0.204	ppbV		95
50) toluene	15.281	91	11408	0.218	ppbV		100
52) 2-hexanone	15.562	43	9919	0.192	ppbV	#	90
53) dibromochloromethane	15.688	129	7010	0.200	ppbV		99
54) 1,2-dibromoethane	15.914	107	6131	0.217	ppbV		98
55) tetrachloroethene	16.312	166	5838	0.222	ppbV	#	93
56) 1,1,1,2-tetrachloroethane	16.858	131	5795	0.220	ppbV		99
57) chlorobenzene	16.872	112	9050	0.215	ppbV		97
58) ethylbenzene	17.164	91	12610	0.189	ppbV		98
59) m+p-xylene	17.305	91	19738	0.375	ppbV		98
60) bromoform	17.379	173	5546	0.179	ppbV		99
61) styrene	17.578	104	6492	0.169	ppbV		98
62) 1,1,2,2-tetrachloroethane	17.663	83	8033	0.218	ppbV		99
63) o-xylene	17.659	91	10597	0.188	ppbV		99
65) isopropylbenzene	18.099	105	16570	0.201	ppbV		100
66) 4-ethyl toluene	18.576	105	14624M6	0.178	ppbV		
67) 1,3,5-trimethylbenzene	18.628	105	13156	0.184	ppbV		99
68) tert-butylbenzene	18.935	119	15596	0.189	ppbV		98
69) 1,2,4-trimethylbenzene	18.935	105	12058	0.173	ppbV		92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:19:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

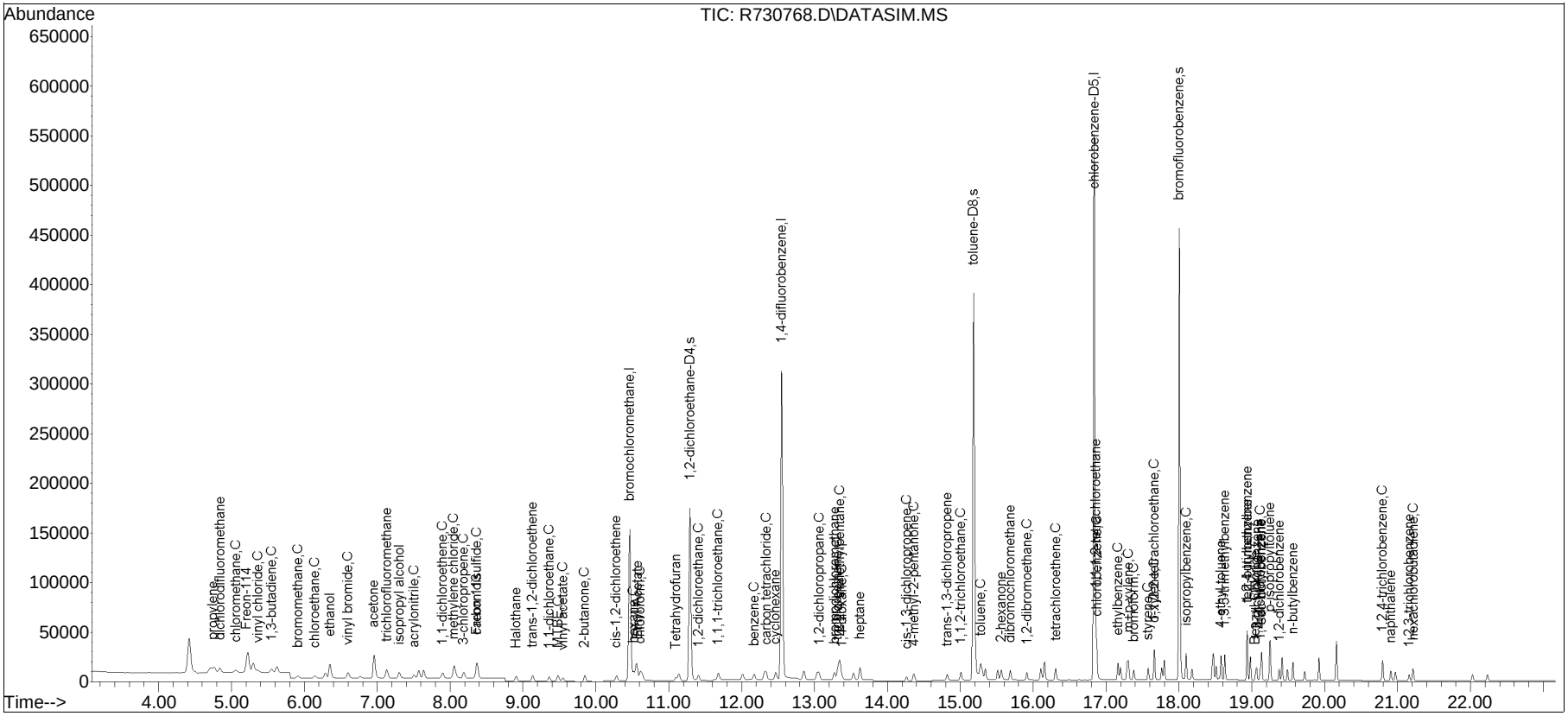
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Benzyl Chloride	19.049	91	5304	0.143	ppbV	98
71) 1,3-dichlorobenzene	19.068	146	7941	0.187	ppbV	98
72) 1,4-dichlorobenzene	19.116	146	7695M4	0.184	ppbV	
73) sec-butylbenzene	19.134	105	20532	0.184	ppbV	99
74) p-isopropyltoluene	19.249	119	16988	0.173	ppbV	100
75) 1,2-dichlorobenzene	19.374	146	7599	0.182	ppbV	96
76) n-butylbenzene	19.562	91	13359	0.168	ppbV	96
77) 1,2,4-trichlorobenzene	20.793	180	5649	0.162	ppbV #	94
78) naphthalene	20.905	128	12095	0.144	ppbV	99
79) 1,2,3-trichlorobenzene	21.162	180	5567	0.158	ppbV #	95
80) hexachlorobutadiene	21.213	225	8358	0.176	ppbV	98

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730768.D
Acq On : 28 Mar 2015 4:36 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.2
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

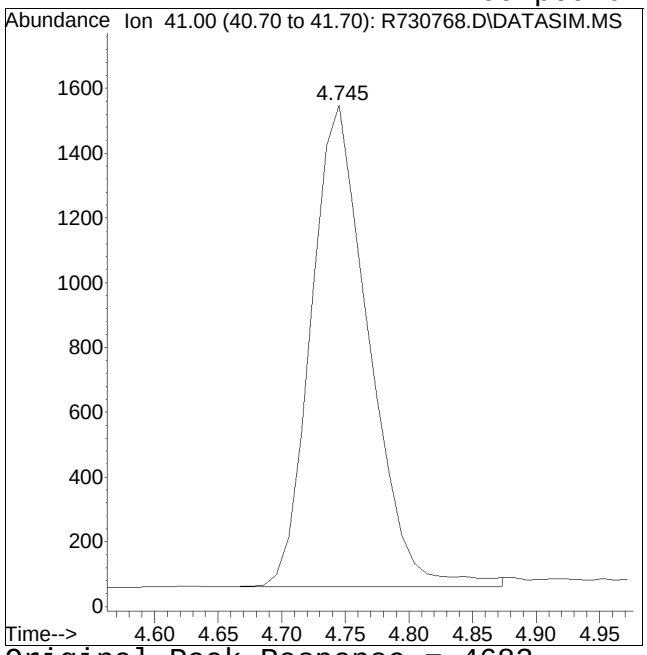
Quant Time: Mar 29 12:19:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration



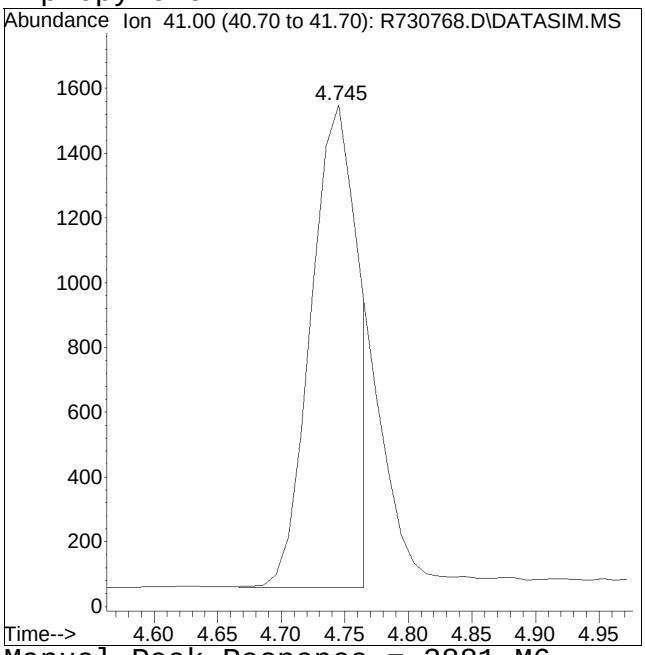
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 4683



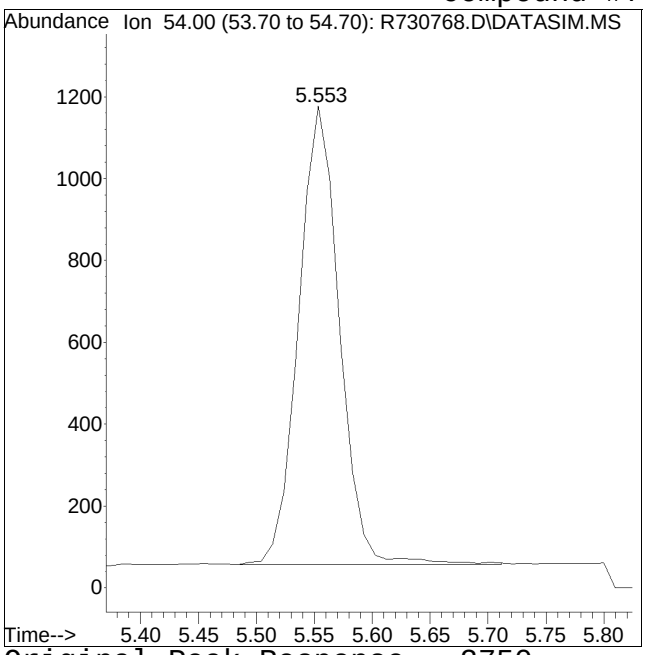
Manual Peak Response = 3881 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

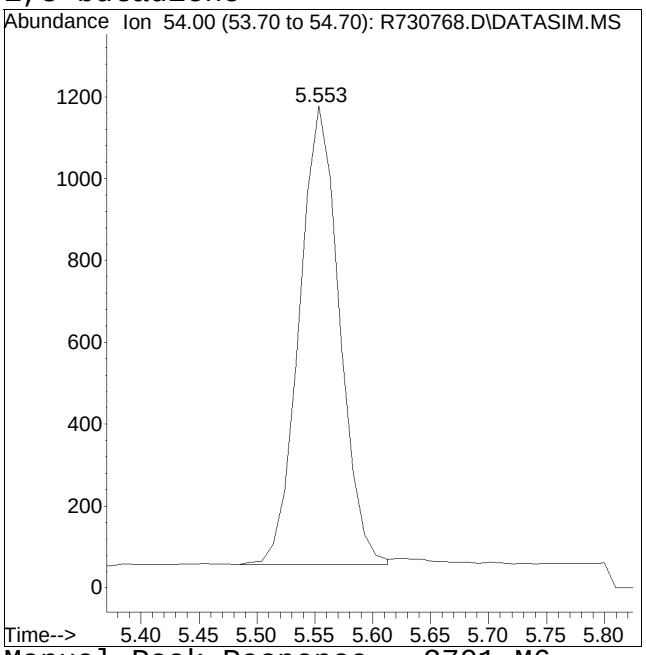
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 2750



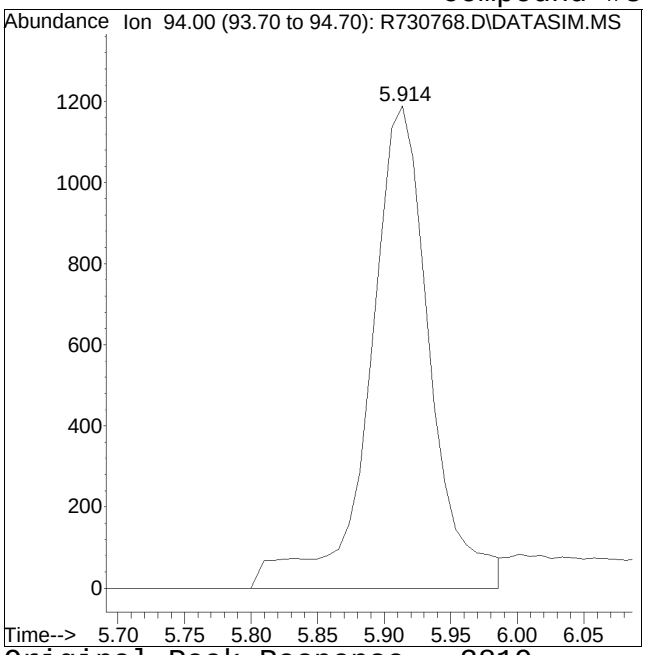
Manual Peak Response = 2701 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

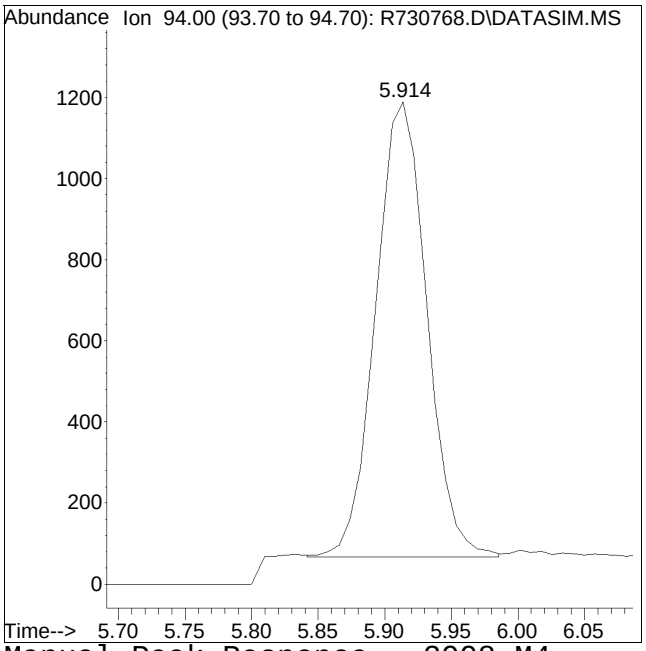
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 11:53 am

Compound #8: bromomethane



Original Peak Response = 3819



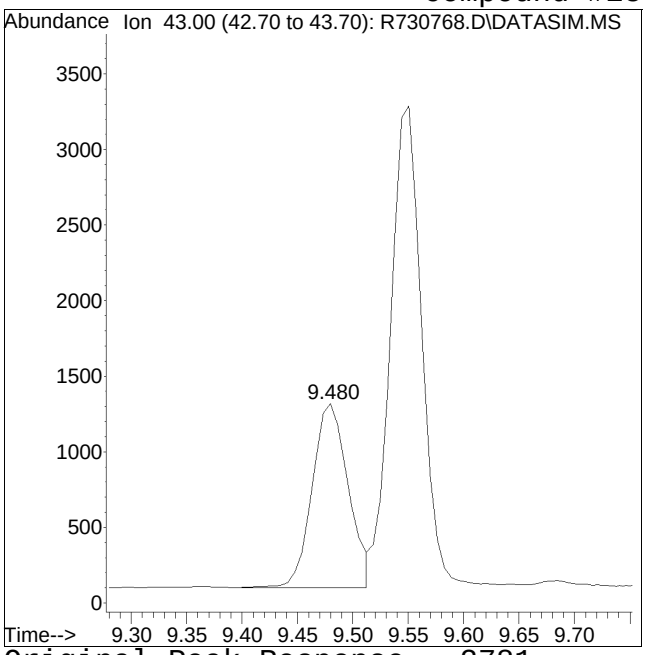
Manual Peak Response = 2998 M4

M4 = Poor automated baseline construction.

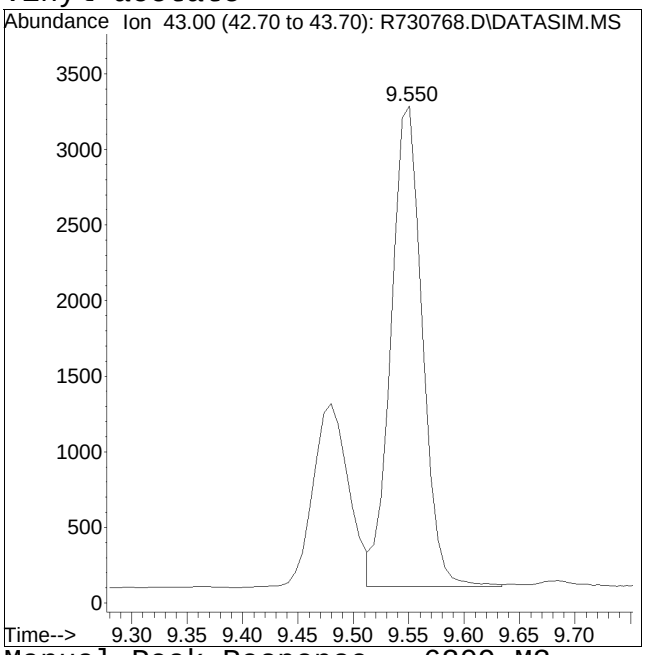
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 11:53 am

Compound #25: vinyl acetate



Original Peak Response = 2781



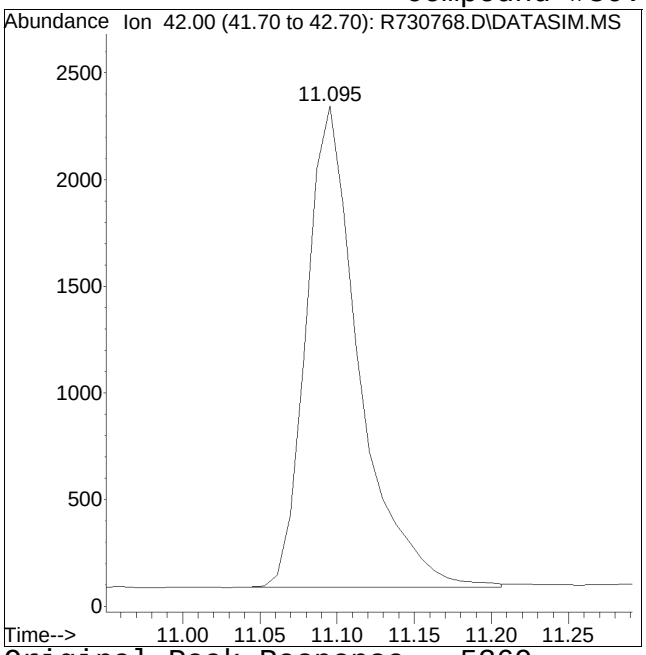
Manual Peak Response = 6209 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

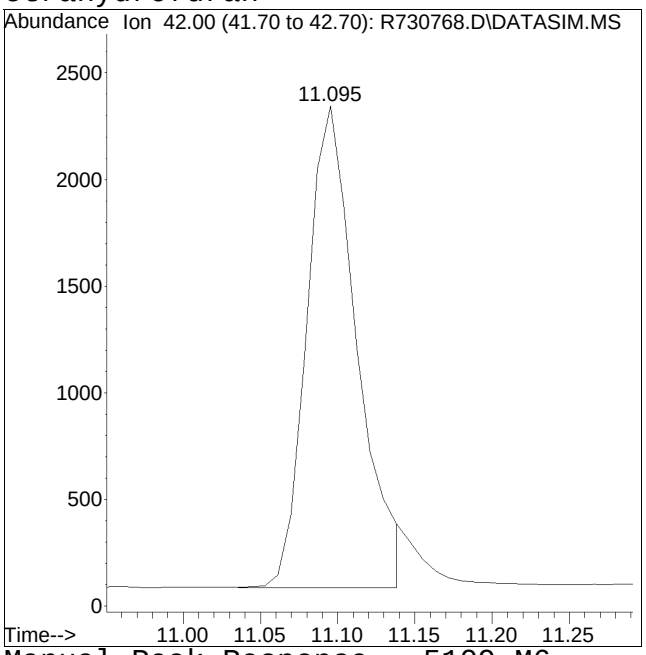
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 11:53 am

Compound #30: Tetrahydrofuran



Original Peak Response = 5369



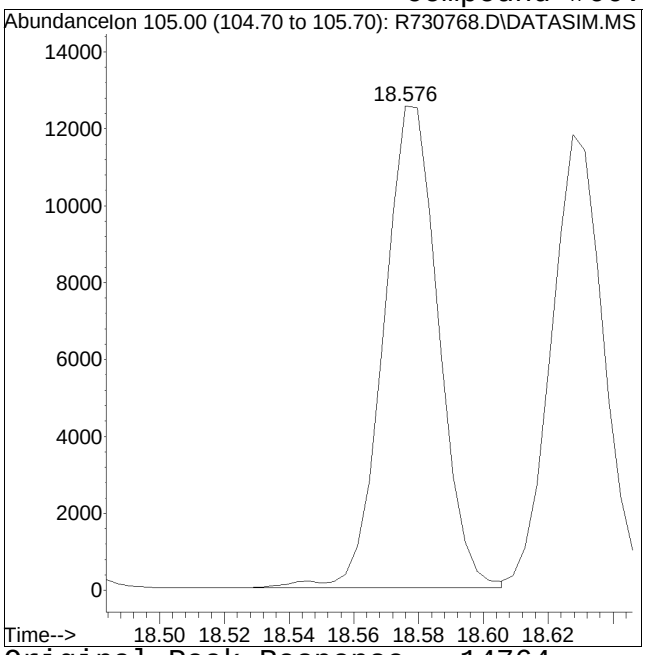
Manual Peak Response = 5109 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

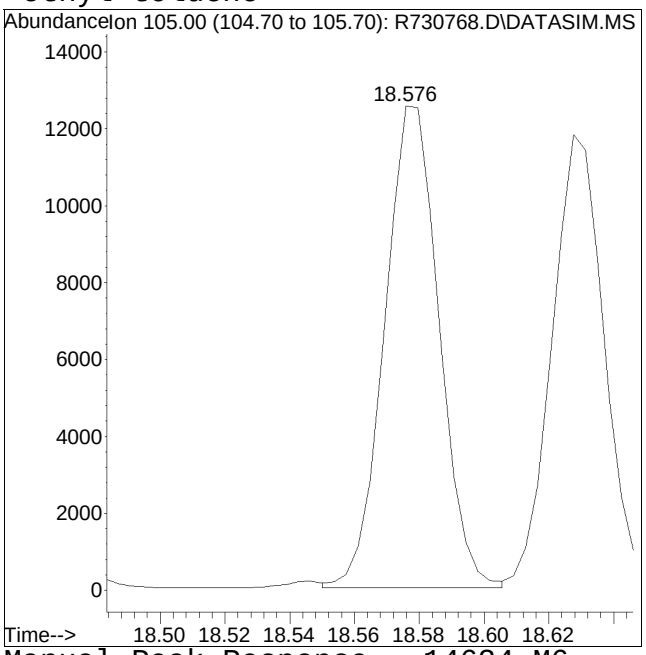
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 14764



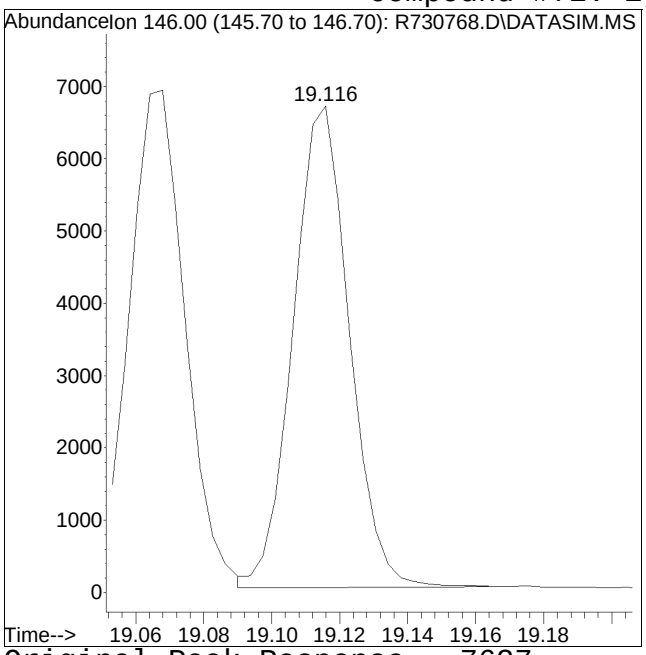
Manual Peak Response = 14624 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

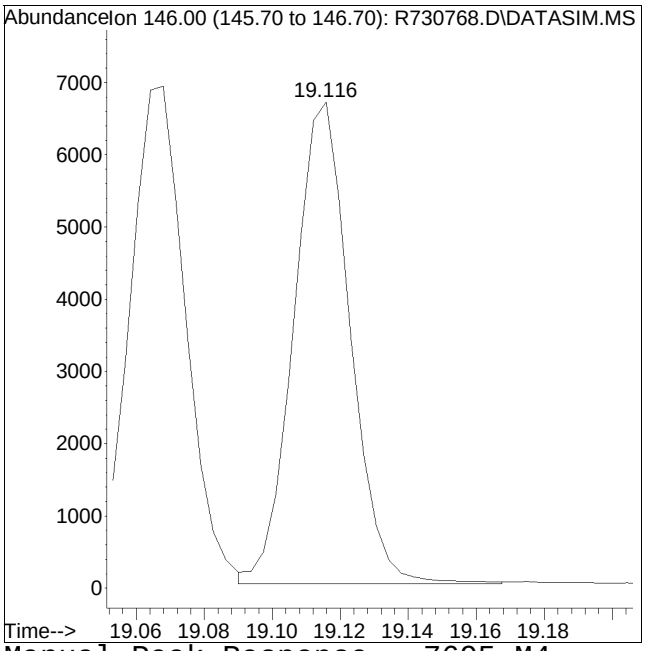
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730768.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 4:36 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.2 Quant Date : 3/29/2015 11:53 am

Compound #72: 1,4-dichlorobenzene



Original Peak Response = 7627



Manual Peak Response = 7695 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:21:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.466	49	187175	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 98.27%			
32) 1,4-difluorobenzene	12.548	114	337899	10.000	ppbV	0.00
Standard Area = 343507			Recovery = 98.37%			
49) chlorobenzene-D5	16.835	54	103377	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 89.57%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.291	65	153315	10.055	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.55%			
51) toluene-D8	15.182	98	360092	10.391	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.91%			
64) bromofluorobenzene	18.003	95	226675	9.829	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.29%			
Target Compounds						Qvalue
2) propylene	4.745	41	8955M6	0.512	ppbV	
3) dichlorodifluoromethane	4.844	85	13902	0.516	ppbV	98
4) chloromethane	5.061	50	9142	0.526	ppbV	97
5) Freon-114	5.208	85	20828	0.526	ppbV	100
6) vinyl chloride	5.366	62	7619	0.513	ppbV	98
7) 1,3-butadiene	5.554	54	6280M6	0.495	ppbV	
8) bromomethane	5.914	94	6875M4	0.516	ppbV	
9) chloroethane	6.146	64	3444	0.513	ppbV	97
10) ethanol	6.345	31	39307M6	2.456	ppbV	
11) vinyl bromide	6.601	106	7087	0.509	ppbV	99
12) acetone	6.945	43	82962	2.654	ppbV #	99
13) trichlorofluoromethane	7.129	101	23141	0.516	ppbV	100
14) isopropyl alcohol	7.289	45	17153	0.512	ppbV	98
15) acrylonitrile	7.504	53	6459	0.502	ppbV	100
16) 1,1-dichloroethene	7.896	61	13341	0.511	ppbV	99
17) methylene chloride	8.048	49	14729	0.599	ppbV	99
18) 3-chloropropene	8.192	41	13167	0.494	ppbV	96
19) carbon disulfide	8.368	76	19250	0.497	ppbV #	83
20) Freon 113	8.368	101	16215	0.519	ppbV	99
21) Halothane	8.907	117	12460	0.514	ppbV	99
22) trans-1,2-dichloroethene	9.133	61	12221	0.505	ppbV	99
23) 1,1-dichloroethane	9.358	63	14410	0.512	ppbV	100
24) MTBE	9.467	73	18033	0.493	ppbV	96

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:21:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.544	43	14335	0.451	ppbV		100
26) 2-butanone	9.835	43	23426	0.505	ppbV		100
27) cis-1,2-dichloroethene	10.279	61	10681	0.517	ppbV		99
28) Ethyl Acetate	10.560	61	2328	0.496	ppbV		53
29) chloroform	10.607	83	15570	0.517	ppbV		100
30) Tetrahydrofuran	11.078	42	11645M6	0.503	ppbV		
31) 1,2-dichloroethane	11.411	62	12012	0.512	ppbV		97
33) hexane	10.513	57	11616	0.499	ppbV	#	17
35) 1,1,1-trichloroethane	11.678	97	14851	0.506	ppbV		99
36) benzene	12.175	78	16473	0.508	ppbV		98
37) carbon tetrachloride	12.340	117	13698	0.481	ppbV		96
38) cyclohexane	12.465	56	10223	0.511	ppbV		97
39) 1,2-dichloropropane	13.066	63	8913	0.477	ppbV		98
40) bromodichloromethane	13.273	83	17191	0.460	ppbV		100
41) 1,4-dioxane	13.366	88	4943	0.446	ppbV		99
42) trichloroethene	13.314	130	11696	0.482	ppbV		99
43) 2,2,4-trimethylpentane	13.345	57	44296	0.468	ppbV		96
44) heptane	13.625	43	19162	0.456	ppbV		99
45) cis-1,3-dichloropropene	14.262	75	9789	0.421	ppbV		97
46) 4-methyl-2-pentanone	14.343	43	26978	0.445	ppbV		98
47) trans-1,3-dichloropropene	14.820	75	9129	0.406	ppbV		94
48) 1,1,2-trichloroethane	15.010	97	9464	0.477	ppbV		92
50) toluene	15.281	91	26449	0.501	ppbV		99
52) 2-hexanone	15.543	43	23887	0.459	ppbV	#	88
53) dibromochloromethane	15.688	129	16570	0.468	ppbV		100
54) 1,2-dibromoethane	15.914	107	14189	0.498	ppbV		98
55) tetrachloroethene	16.312	166	13600	0.512	ppbV	#	93
56) 1,1,1,2-tetrachloroethane	16.857	131	13712	0.517	ppbV		99
57) chlorobenzene	16.872	112	21126	0.497	ppbV		98
58) ethylbenzene	17.160	91	30675	0.455	ppbV		99
59) m+p-xylene	17.305	91	49069	0.925	ppbV		100
60) bromoform	17.379	173	13285	0.425	ppbV		100
61) styrene	17.578	104	15944	0.412	ppbV		99
62) 1,1,2,2-tetrachloroethane	17.659	83	18887	0.508	ppbV		100
63) o-xylene	17.659	91	26196	0.462	ppbV		99
65) isopropylbenzene	18.095	105	40132	0.483	ppbV		100
66) 4-ethyl toluene	18.576	105	37256M6	0.449	ppbV		
67) 1,3,5-trimethylbenzene	18.628	105	33189	0.459	ppbV		99
68) tert-butylbenzene	18.931	119	39510	0.475	ppbV		99
69) 1,2,4-trimethylbenzene	18.931	105	31059	0.441	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:21:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

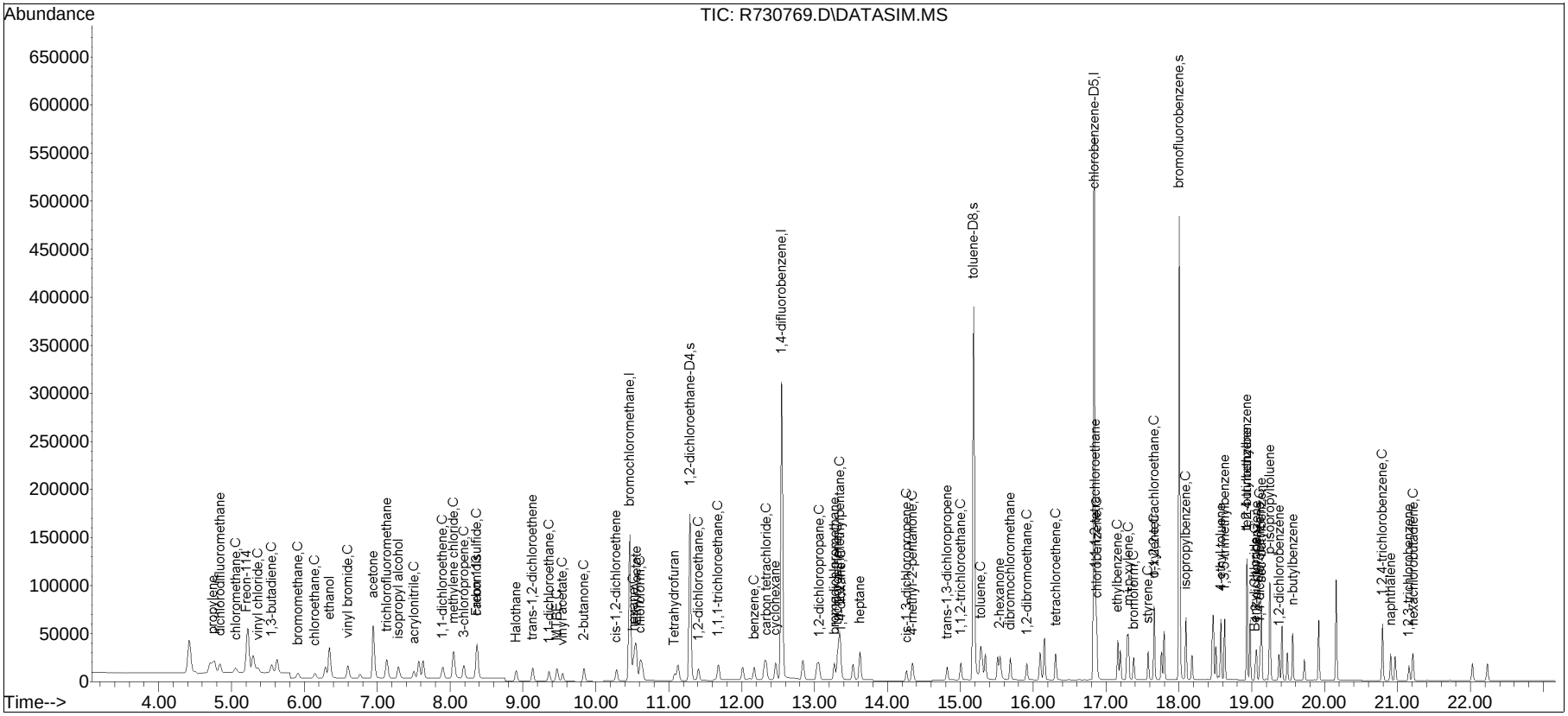
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Benzyl Chloride	19.049	91	13540	0.361	ppbV	99
71) 1,3-dichlorobenzene	19.064	146	19522	0.456	ppbV	99
72) 1,4-dichlorobenzene	19.112	146	19210M4	0.454	ppbV	
73) sec-butylbenzene	19.130	105	52535	0.466	ppbV	99
74) p-isopropyltoluene	19.245	119	44039	0.444	ppbV	99
75) 1,2-dichlorobenzene	19.374	146	18968	0.450	ppbV	97
76) n-butylbenzene	19.562	91	35148	0.438	ppbV	99
77) 1,2,4-trichlorobenzene	20.793	180	14319	0.407	ppbV	99
78) naphthalene	20.905	128	31754	0.376	ppbV	99
79) 1,2,3-trichlorobenzene	21.153	180	14300	0.403	ppbV	100
80) hexachlorobutadiene	21.213	225	20725	0.434	ppbV	99

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730769.D
Acq On : 28 Mar 2015 5:08 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD0.5
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

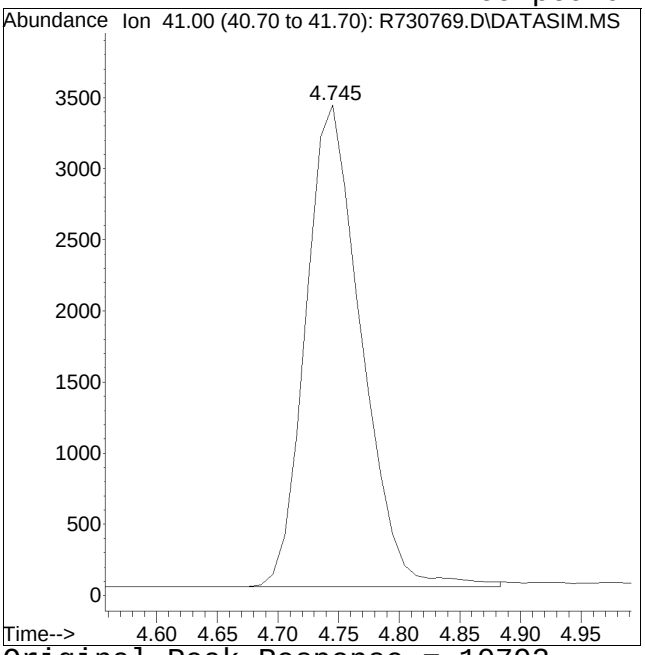
Quant Time: Mar 29 12:21:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration



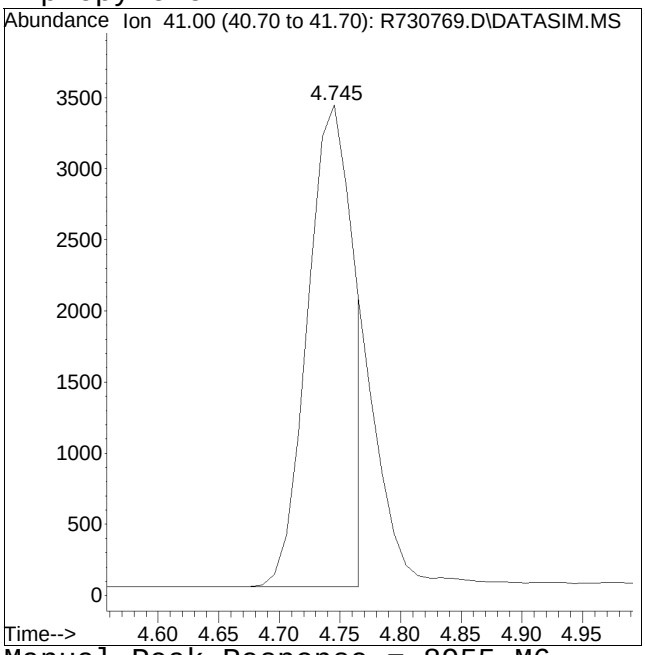
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 10792



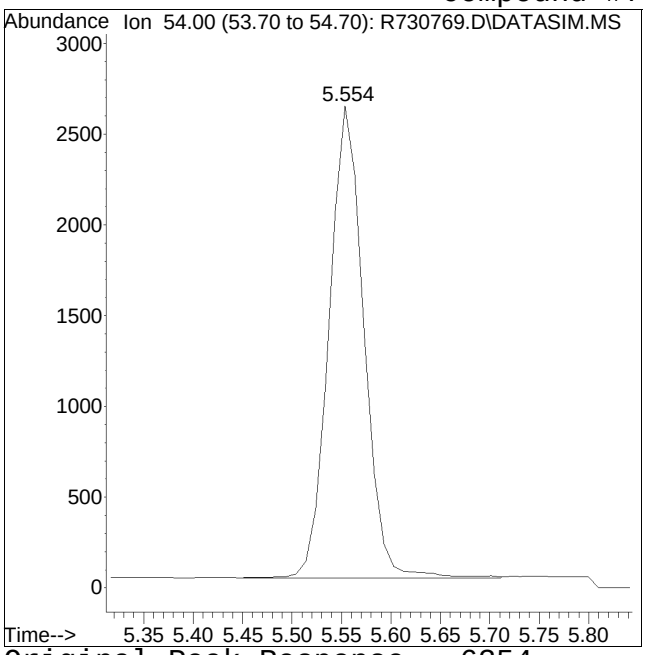
Manual Peak Response = 8955 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

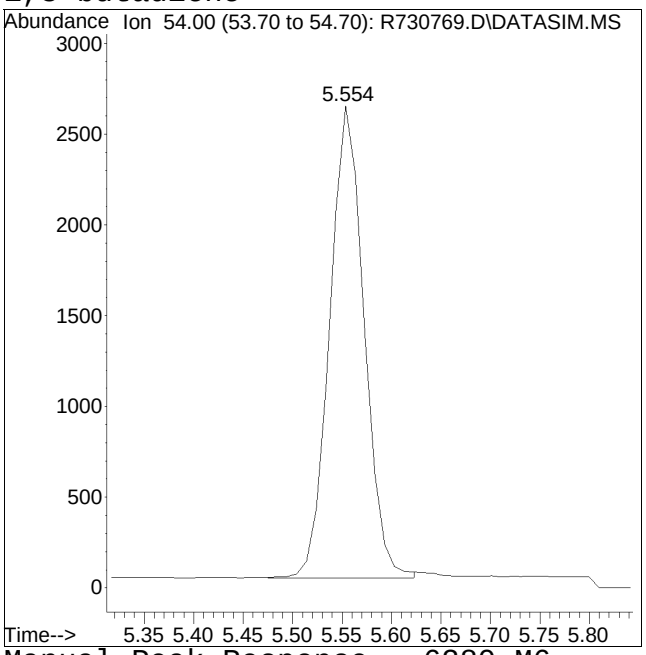
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 6354



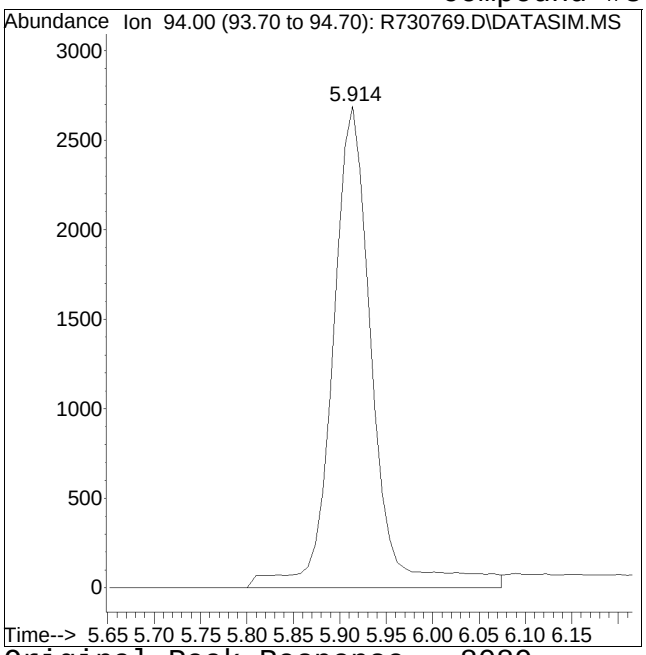
Manual Peak Response = 6280 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

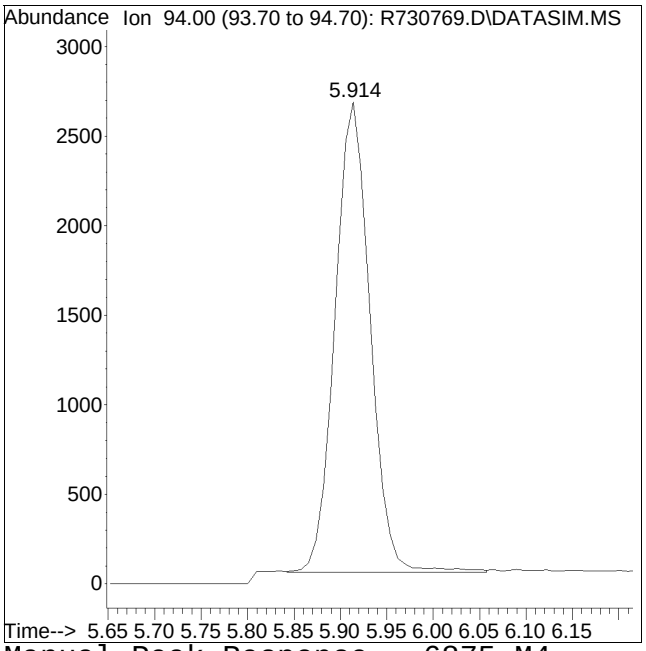
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 11:53 am

Compound #8: bromomethane



Original Peak Response = 8089



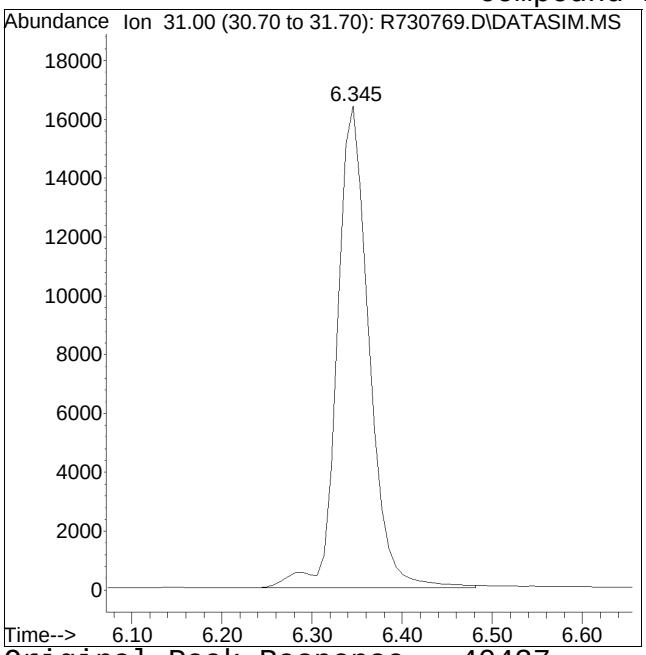
Manual Peak Response = 6875 M4

M4 = Poor automated baseline construction.

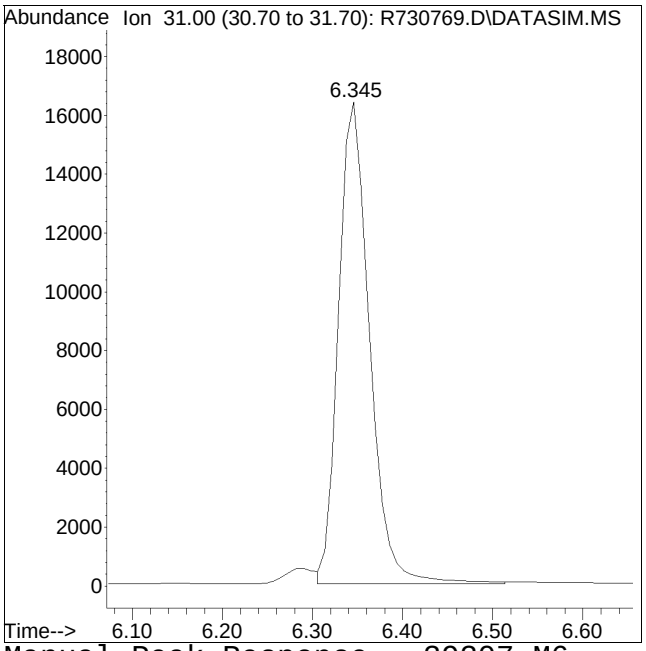
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 11:53 am

Compound #10: ethanol



Original Peak Response = 40437



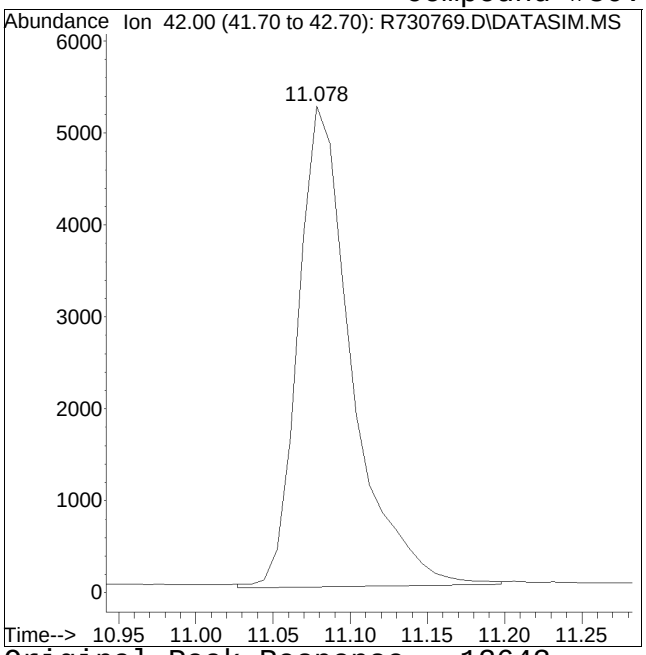
Manual Peak Response = 39307 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

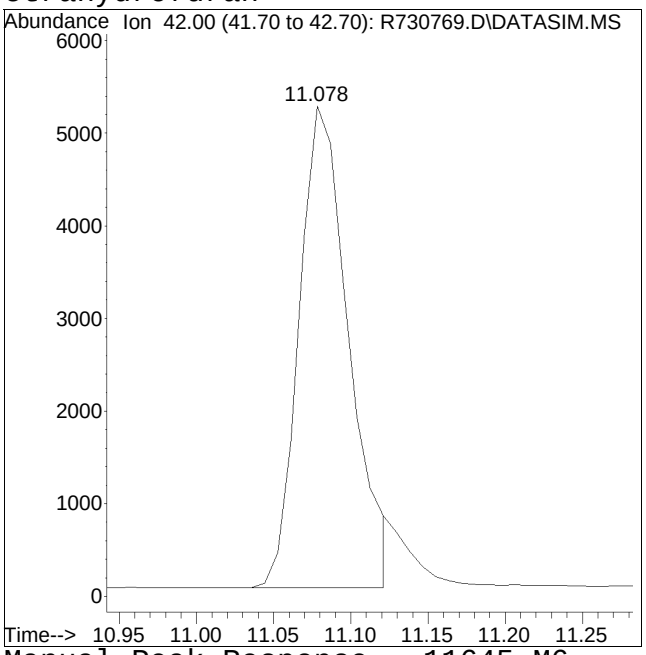
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 11:53 am

Compound #30: Tetrahydrofuran



Original Peak Response = 12643



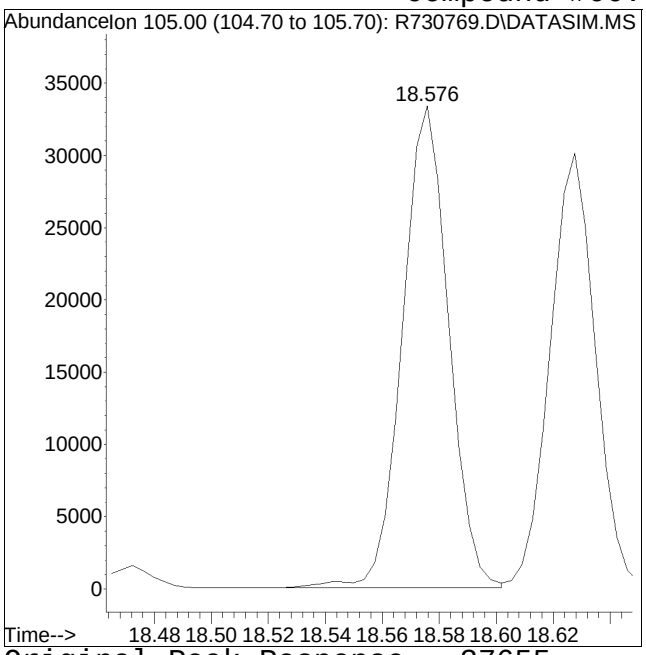
Manual Peak Response = 11645 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

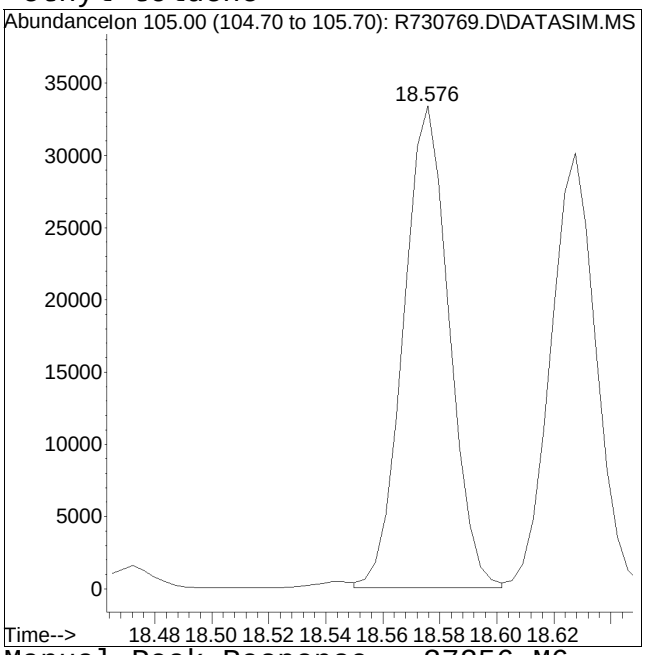
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 37655



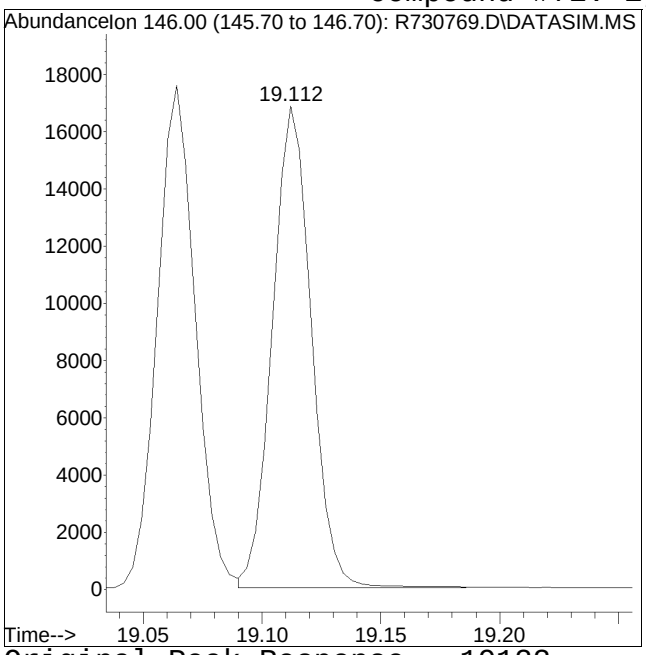
Manual Peak Response = 37256 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

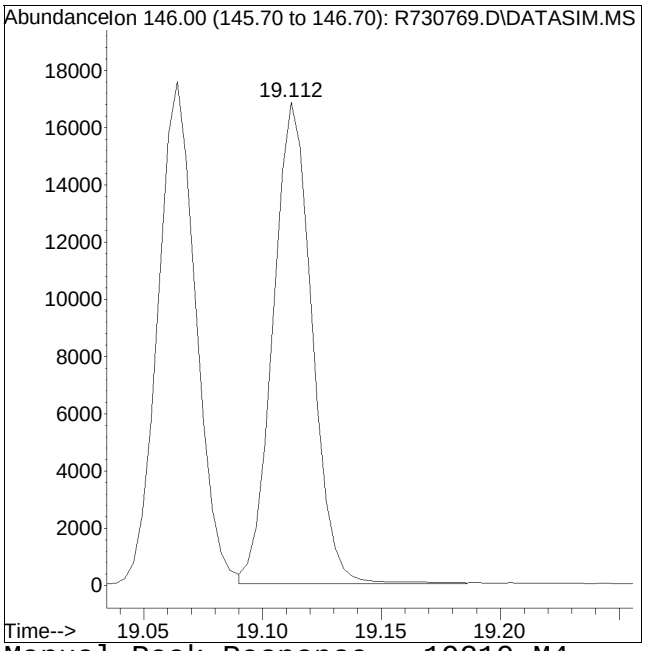
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730769.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:08 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD0.5 Quant Date : 3/29/2015 11:53 am

Compound #72: 1,4-dichlorobenzene



Original Peak Response = 19122



Manual Peak Response = 19210 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:23:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.467	49	188627	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 99.03%			
32) 1,4-difluorobenzene	12.548	114	338719	10.000	ppbV	0.00
Standard Area = 343507			Recovery = 98.61%			
49) chlorobenzene-D5	16.835	54	105952	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 91.80%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.291	65	153417	10.037	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
51) toluene-D8	15.182	98	365821	10.300	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.00%			
64) bromofluorobenzene	18.003	95	229239	9.698	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.98%			
Target Compounds						Qvalue
2) propylene	4.745	41	17907M6	1.016	ppbV	
3) dichlorodifluoromethane	4.844	85	27778	1.023	ppbV	100
4) chloromethane	5.061	50	17784	1.015	ppbV	98
5) Freon-114	5.209	85	41293	1.036	ppbV	99
6) vinyl chloride	5.366	62	14824	0.991	ppbV	100
7) 1,3-butadiene	5.554	54	12418M6	0.971	ppbV	
8) bromomethane	5.914	94	13414	0.998	ppbV	99
9) chloroethane	6.146	64	6844	1.011	ppbV	94
10) ethanol	6.337	31	77773M6	4.823	ppbV	
11) vinyl bromide	6.601	106	13869	0.989	ppbV	100
12) acetone	6.937	43	162412	5.155	ppbV	98
13) trichlorofluoromethane	7.129	101	45547	1.008	ppbV	100
14) isopropyl alcohol	7.281	45	33427	0.990	ppbV	99
15) acrylonitrile	7.497	53	12823	0.989	ppbV	97
16) 1,1-dichloroethene	7.896	61	26180	0.995	ppbV	99
17) methylene chloride	8.048	49	26812	1.082	ppbV	100
18) 3-chloropropene	8.192	41	26257	0.978	ppbV	98
19) carbon disulfide	8.368	76	38390	0.983	ppbV	92
20) Freon 113	8.368	101	31767	1.008	ppbV	100
21) Halothane	8.907	117	24497	1.002	ppbV	99
22) trans-1,2-dichloroethene	9.133	61	24237	0.993	ppbV	99
23) 1,1-dichloroethane	9.358	63	28343	0.999	ppbV	99
24) MTBE	9.454	73	35690	0.968	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:23:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.544	43	27579M4	0.861	ppbV		
26) 2-butanone	9.826	43	46255	0.989	ppbV		100
27) cis-1,2-dichloroethene	10.279	61	20611	0.989	ppbV		99
28) Ethyl Acetate	10.551	61	4486	0.947	ppbV		59
29) chloroform	10.607	83	30184	0.995	ppbV		100
30) Tetrahydrofuran	11.070	42	22624M6	0.970	ppbV		
31) 1,2-dichloroethane	11.402	62	23750	1.004	ppbV		99
33) hexane	10.513	57	22880	0.980	ppbV	#	38
35) 1,1,1-trichloroethane	11.678	97	29674	1.008	ppbV		99
36) benzene	12.175	78	32199	0.990	ppbV		99
37) carbon tetrachloride	12.340	117	27227	0.955	ppbV		96
38) cyclohexane	12.465	56	20016	0.997	ppbV		99
39) 1,2-dichloropropane	13.055	63	17893	0.956	ppbV		98
40) bromodichloromethane	13.273	83	34737	0.926	ppbV		100
41) 1,4-dioxane	13.345	88	10008	0.901	ppbV	#	69
42) trichloroethene	13.314	130	23099	0.950	ppbV		99
43) 2,2,4-trimethylpentane	13.345	57	90768	0.956	ppbV		99
44) heptane	13.625	43	39222	0.932	ppbV		100
45) cis-1,3-dichloropropene	14.263	75	20398	0.875	ppbV		99
46) 4-methyl-2-pentanone	14.326	43	56059	0.922	ppbV		99
47) trans-1,3-dichloropropene	14.820	75	18864	0.836	ppbV		96
48) 1,1,2-trichloroethane	15.010	97	18789	0.944	ppbV		88
50) toluene	15.281	91	53182	0.982	ppbV		100
52) 2-hexanone	15.534	43	49492	0.928	ppbV	#	92
53) dibromochloromethane	15.688	129	34025	0.938	ppbV		100
54) 1,2-dibromoethane	15.914	107	28455	0.974	ppbV		100
55) tetrachloroethene	16.312	166	27104	0.996	ppbV	#	92
56) 1,1,1,2-tetrachloroethane	16.858	131	27228	1.001	ppbV		99
57) chlorobenzene	16.872	112	41977	0.964	ppbV		99
58) ethylbenzene	17.161	91	63355	0.917	ppbV		100
59) m+p-xylene	17.301	91	101819M1	1.873	ppbV		
60) bromoform	17.379	173	27964	0.873	ppbV		99
61) styrene	17.578	104	33896	0.854	ppbV		99
62) 1,1,2,2-tetrachloroethane	17.656	83	37640	0.988	ppbV		99
63) o-xylene	17.659	91	54779	0.942	ppbV		99
65) isopropylbenzene	18.095	105	81671	0.960	ppbV		99
66) 4-ethyl toluene	18.572	105	77954M6	0.917	ppbV		
67) 1,3,5-trimethylbenzene	18.624	105	69020	0.932	ppbV		99
68) tert-butylbenzene	18.931	119	81235	0.953	ppbV		100
69) 1,2,4-trimethylbenzene	18.931	105	65643	0.909	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 12:23:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

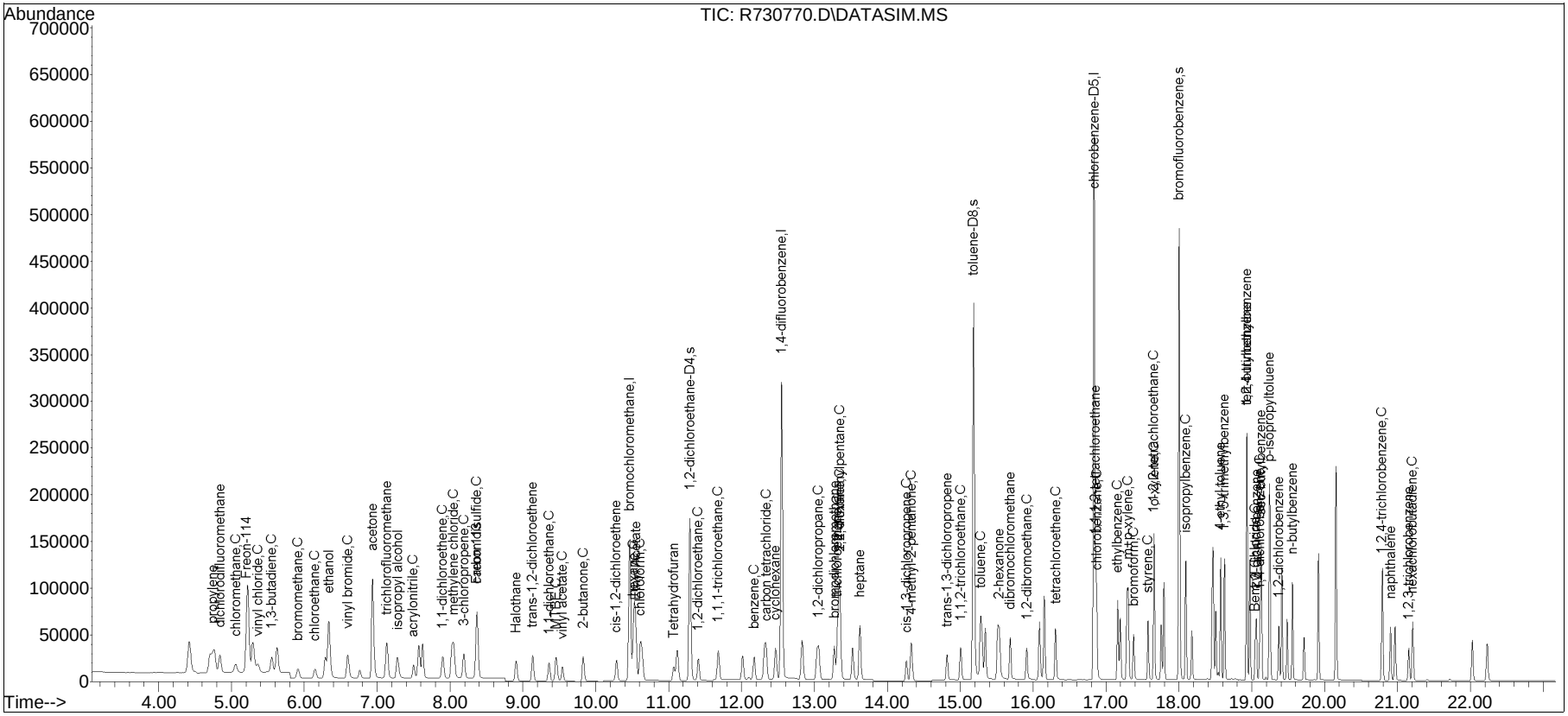
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) Benzyl Chloride	19.046	91	29121	0.758	ppbV		100
71) 1,3-dichlorobenzene	19.060	146	40062	0.912	ppbV		98
72) 1,4-dichlorobenzene	19.112	146	39077	0.902	ppbV		98
73) sec-butylbenzene	19.127	105	108391	0.938	ppbV		98
74) p-isopropyltoluene	19.241	119	91883	0.904	ppbV		99
75) 1,2-dichlorobenzene	19.370	146	39178	0.906	ppbV		98
76) n-butylbenzene	19.558	91	74011	0.900	ppbV		100
77) 1,2,4-trichlorobenzene	20.785	180	30404	0.843	ppbV	#	93
78) naphthalene	20.905	128	68702	0.793	ppbV		97
79) 1,2,3-trichlorobenzene	21.153	180	30195	0.831	ppbV		97
80) hexachlorobutadiene	21.205	225	42706	0.872	ppbV	#	92

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730770.D
Acq On : 28 Mar 2015 5:42 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD1.0
Misc : WG771894
ALS Vial : 6 Sample Multiplier: 1

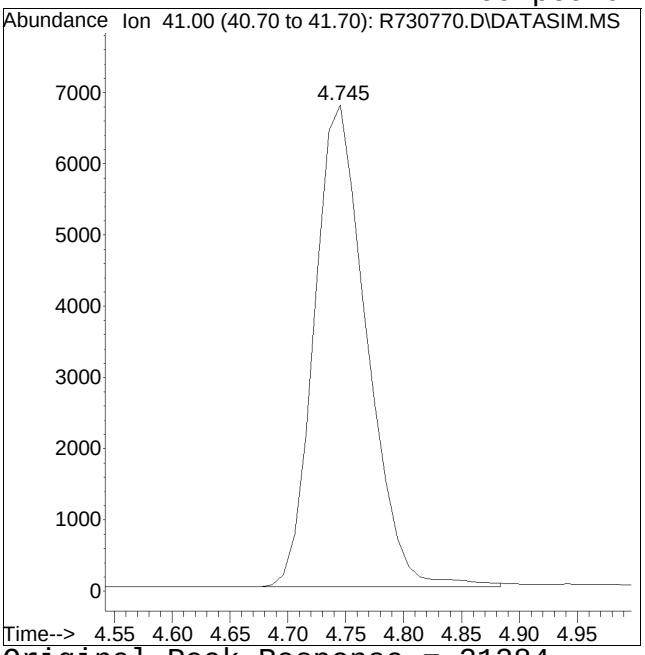
Quant Time: Mar 29 12:23:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration



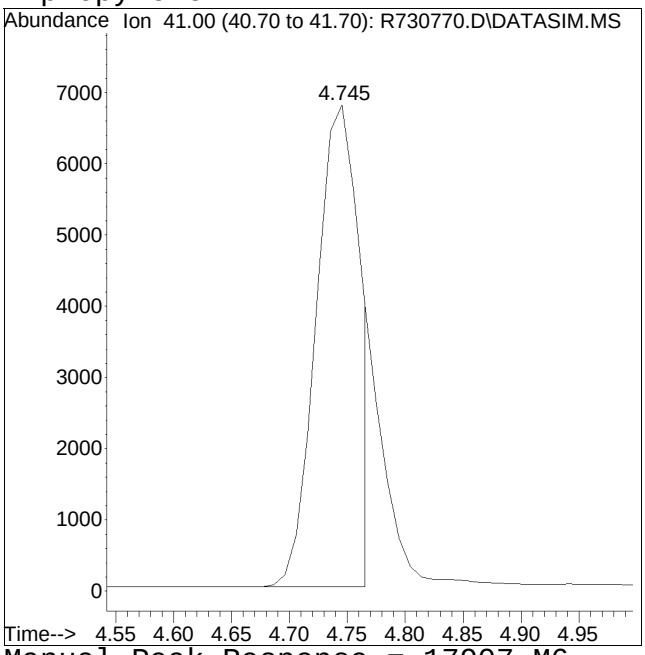
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 21284



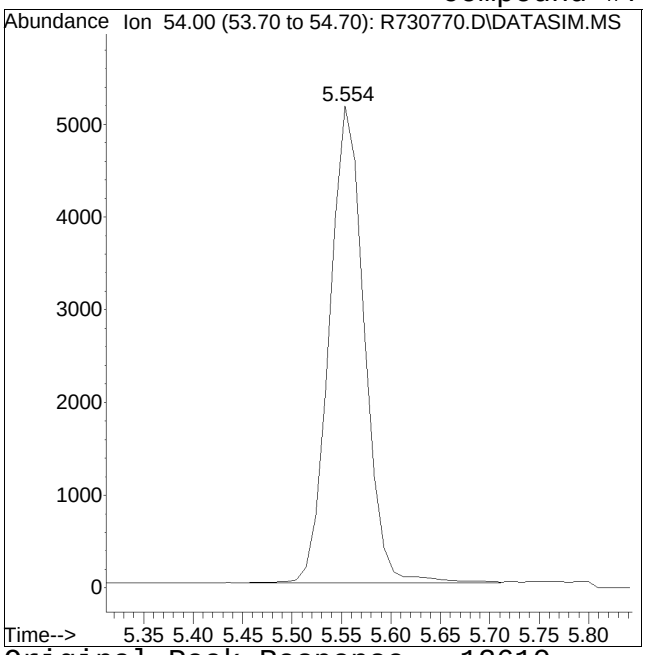
Manual Peak Response = 17907 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

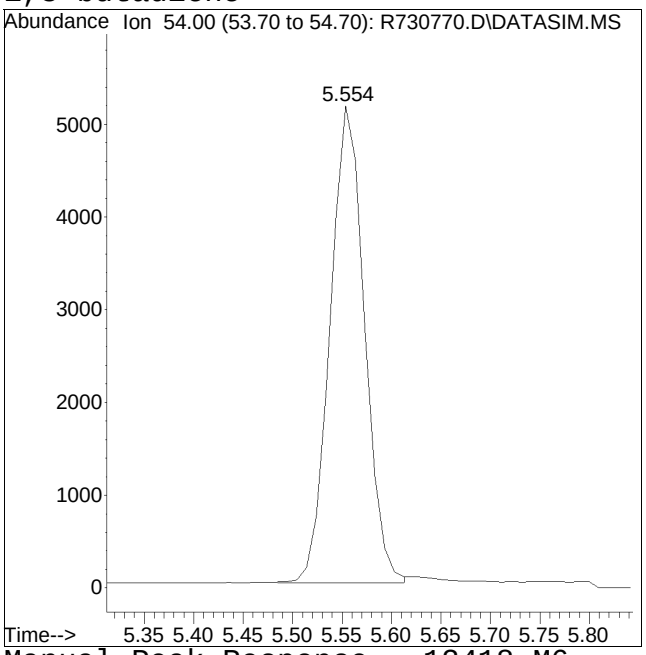
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 12610



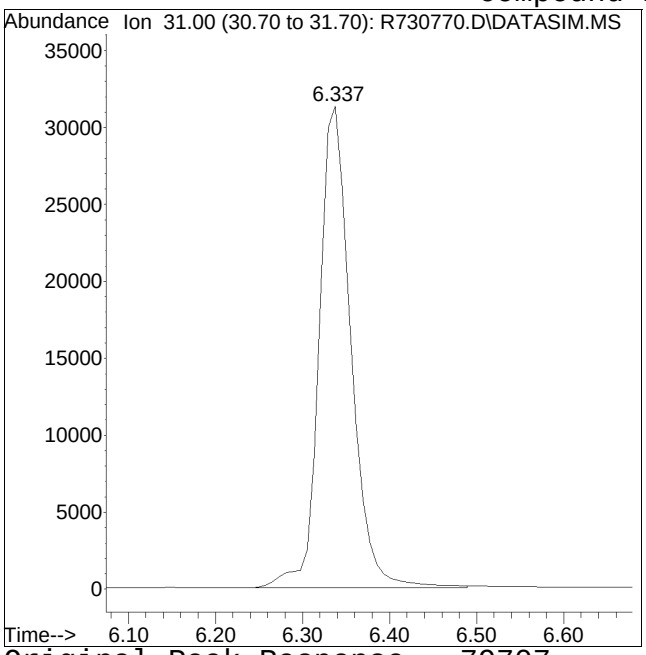
Manual Peak Response = 12418 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

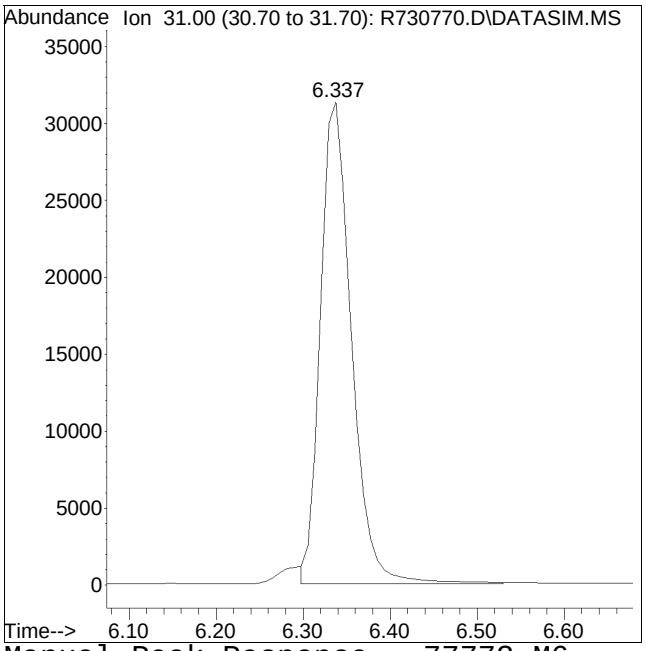
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 11:53 am

Compound #10: ethanol



Original Peak Response = 79707



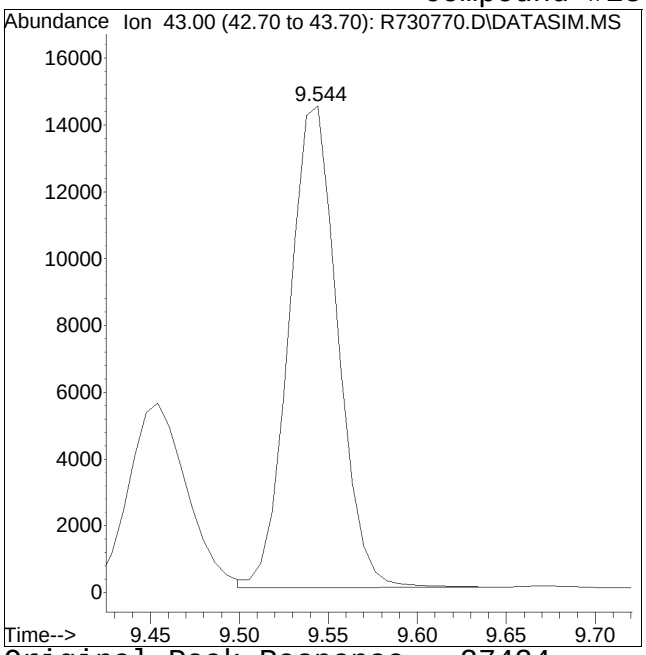
Manual Peak Response = 77773 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

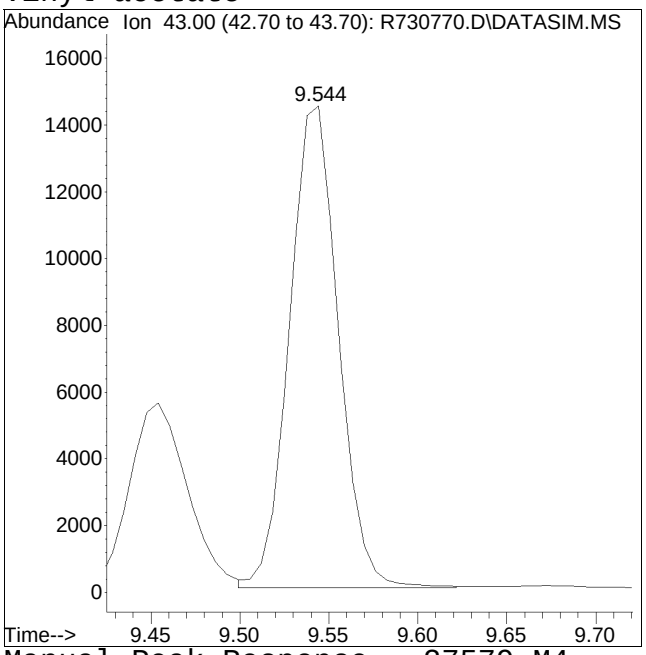
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 11:53 am

Compound #25: vinyl acetate



Original Peak Response = 27424



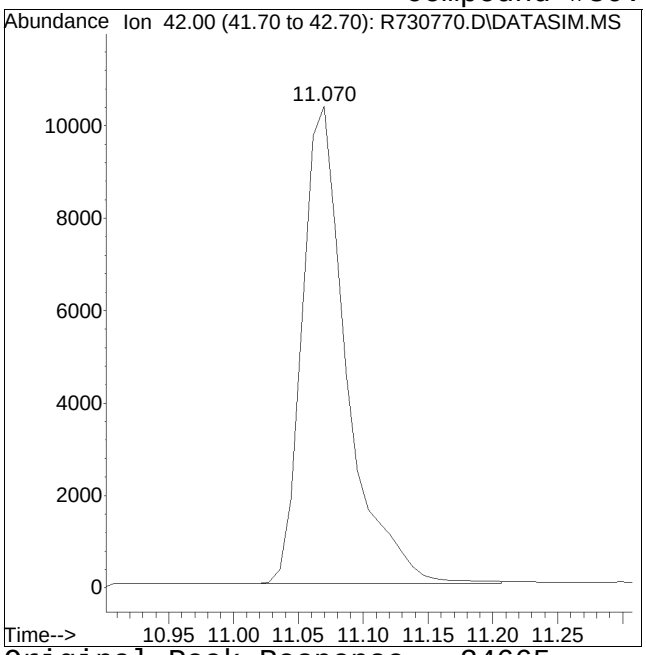
Manual Peak Response = 27579 M4

M4 = Poor automated baseline construction.

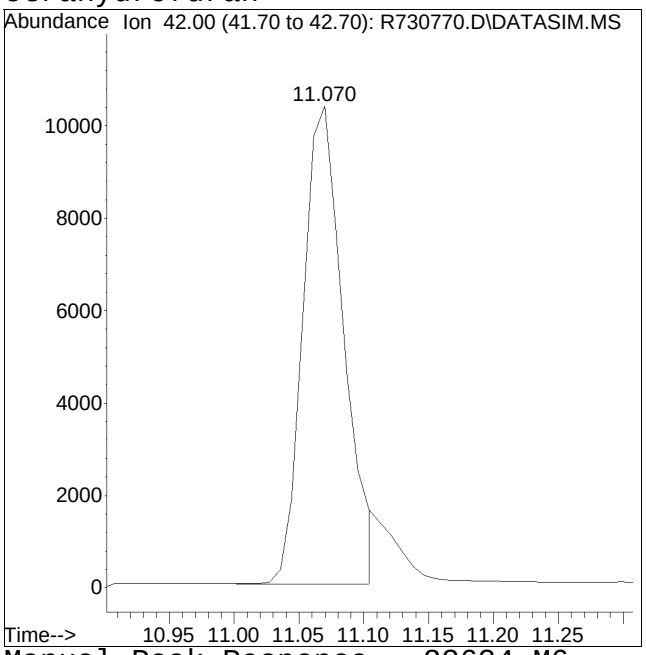
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 11:53 am

Compound #30: Tetrahydrofuran



Original Peak Response = 24665



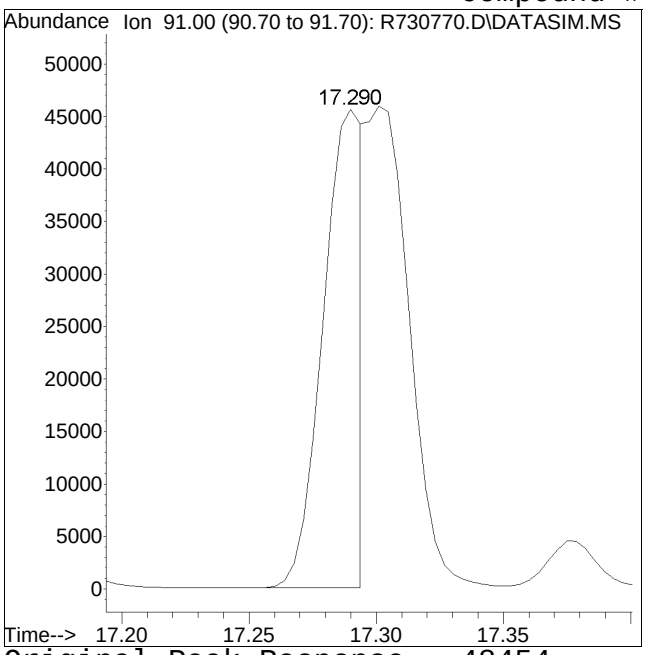
Manual Peak Response = 22624 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

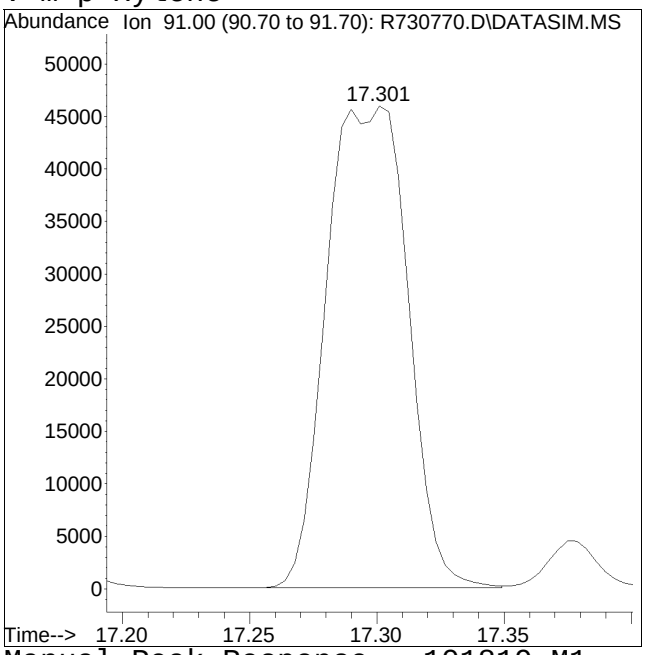
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 11:53 am

Compound #59: m+p-xylene



Original Peak Response = 48454



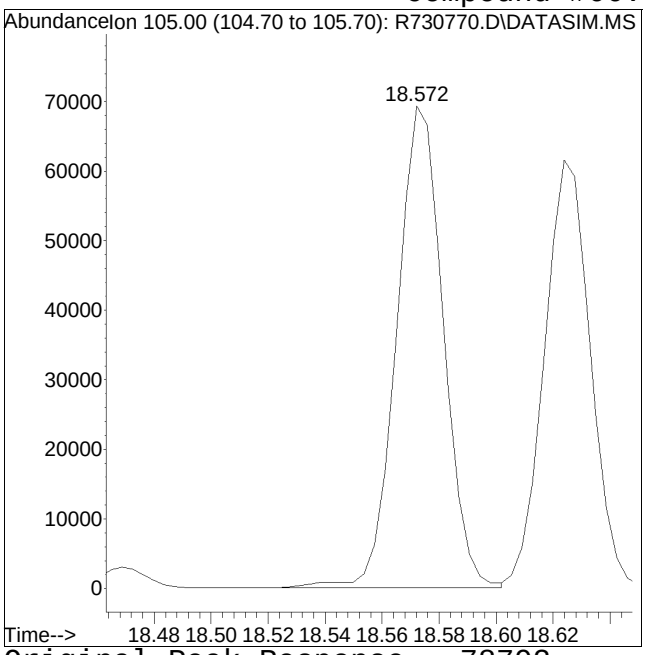
Manual Peak Response = 101819 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

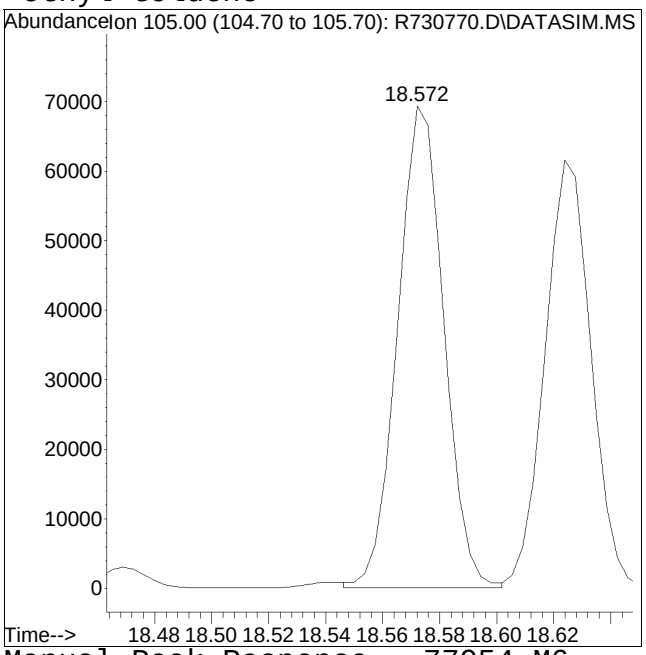
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730770.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 5:42 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD1.0 Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 78792



Manual Peak Response = 77954 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 11:51:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 18 11:20:49 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	10.467	49	190468	10.000	ppbV	#	0.00
Standard Area = 190468			Recovery = 100.00%				
32) 1,4-difluorobenzene	12.548	114	343507	10.000	ppbV		0.00
Standard Area = 343507			Recovery = 100.00%				
49) chlorobenzene-D5	16.835	54	115421	10.000	ppbV		0.00
Standard Area = 115421			Recovery = 100.00%				
System Monitoring Compounds							
34) 1,2-dichloroethane-D4	11.292	65	155007	11.207	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.07%				
51) toluene-D8	15.182	98	386912	8.292	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.92%				
64) bromofluorobenzene	17.999	95	257498	8.753	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.53%				
Target Compounds							Qvalue
2) propylene	4.726	41	88994	5.588	ppbV		99
3) dichlorodifluoromethane	4.834	85	137040	4.922	ppbV		99
4) chloromethane	5.051	50	88504	5.133	ppbV		99
5) Freon-114	5.209	85	201319	4.431	ppbV		99
6) vinyl chloride	5.366	62	75511	4.559	ppbV		98
7) 1,3-butadiene	5.554	54	64547M6	5.110	ppbV		
8) bromomethane	5.914	94	67850	5.325	ppbV		100
9) chloroethane	6.146	64	34184	4.190	ppbV		98
10) ethanol	6.322	31	407102	28.679	ppbV		99
11) vinyl bromide	6.601	106	70835	4.117	ppbV		98
12) acetone	6.913	43	795375	26.215	ppbV		92
13) trichlorofluoromethane	7.129	101	228234	4.669	ppbV		100
14) isopropyl alcohol	7.249	45	170551	5.212	ppbV		99
15) acrylonitrile	7.497	53	65479	4.949	ppbV		97
16) 1,1-dichloroethene	7.896	61	132801	4.657	ppbV		93
17) methylene chloride	8.048	49	125057	5.384	ppbV	#	78
18) 3-chloropropene	8.184	41	135574	5.524	ppbV	#	95
19) carbon disulfide	8.368	76	197233	3.751	ppbV	#	86
20) Freon 113	8.368	101	159060	4.303	ppbV		93
21) Halothane	8.908	117	123455	4.183	ppbV		88
22) trans-1,2-dichloroethene	9.133	61	123234	4.578	ppbV		91
23) 1,1-dichloroethane	9.358	63	143291	4.508	ppbV		98
24) MTBE	9.435	73	186144	4.168	ppbV	#	91

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 11:51:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 18 11:20:49 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.538	43	161812	3.762	ppbV	#	96
26) 2-butanone	9.806	43	236214	5.227	ppbV	#	91
27) cis-1,2-dichloroethene	10.279	61	105188	4.563	ppbV		93
28) Ethyl Acetate	10.532	61	23904	4.406	ppbV	#	1
29) chloroform	10.607	83	153187	4.282	ppbV	#	95
30) Tetrahydrofuran	11.044	42	117774M6	5.531	ppbV		
31) 1,2-dichloroethane	11.402	62	119460	4.840	ppbV		96
33) hexane	10.514	57	118382	6.209	ppbV		80
35) 1,1,1-trichloroethane	11.678	97	149286	5.644	ppbV		98
36) benzene	12.175	78	164856	5.042	ppbV	#	87
37) carbon tetrachloride	12.330	117	144605	5.964	ppbV		98
38) cyclohexane	12.465	56	101768	6.402	ppbV		85
39) 1,2-dichloropropane	13.055	63	94893	6.294	ppbV		94
40) bromodichloromethane	13.273	83	190127	5.994	ppbV		99
41) 1,4-dioxane	13.325	88	56310	5.264	ppbV		87
42) trichloroethene	13.314	130	123229	5.894	ppbV		98
43) 2,2,4-trimethylpentane	13.345	57	481264	6.699	ppbV		94
44) heptane	13.625	43	213483	7.218	ppbV	#	93
45) cis-1,3-dichloropropene	14.263	75	118232	5.820	ppbV	#	89
46) 4-methyl-2-pentanone	14.301	43	308464	7.584	ppbV		95
47) trans-1,3-dichloropropene	14.821	75	114419	5.741	ppbV	#	89
48) 1,1,2-trichloroethane	15.001	97	100878	5.694	ppbV		96
50) toluene	15.281	91	294870	4.450	ppbV		100
52) 2-hexanone	15.516	43	290385	6.105	ppbV		95
53) dibromochloromethane	15.688	129	197636	5.043	ppbV		99
54) 1,2-dibromoethane	15.914	107	159119	4.729	ppbV		100
55) tetrachloroethene	16.303	166	148166	3.886	ppbV	#	79
56) 1,1,1,2-tetrachloroethane	16.854	131	148152	4.878	ppbV		99
57) chlorobenzene	16.872	112	237253	4.521	ppbV		99
58) ethylbenzene	17.161	91	376157	4.818	ppbV		100
59) m+p-xylene	17.301	91	592154	9.701	ppbV		100
60) bromoform	17.379	173	174411	4.329	ppbV		99
61) styrene	17.575	104	216115	4.941	ppbV		98
62) 1,1,2,2-tetrachloroethane	17.656	83	207600	4.539	ppbV		100
63) o-xylene	17.660	91	316787	4.919	ppbV		99
65) isopropylbenzene	18.092	105	463539	4.877	ppbV		100
66) 4-ethyl toluene	18.572	105	463058M6	5.040	ppbV		
67) 1,3,5-trimethylbenzene	18.624	105	403329	5.028	ppbV		99
68) tert-butylbenzene	18.928	119	464347	5.044	ppbV		98
69) 1,2,4-trimethylbenzene	18.928	105	393206	5.159	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 11:51:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 18 11:20:49 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

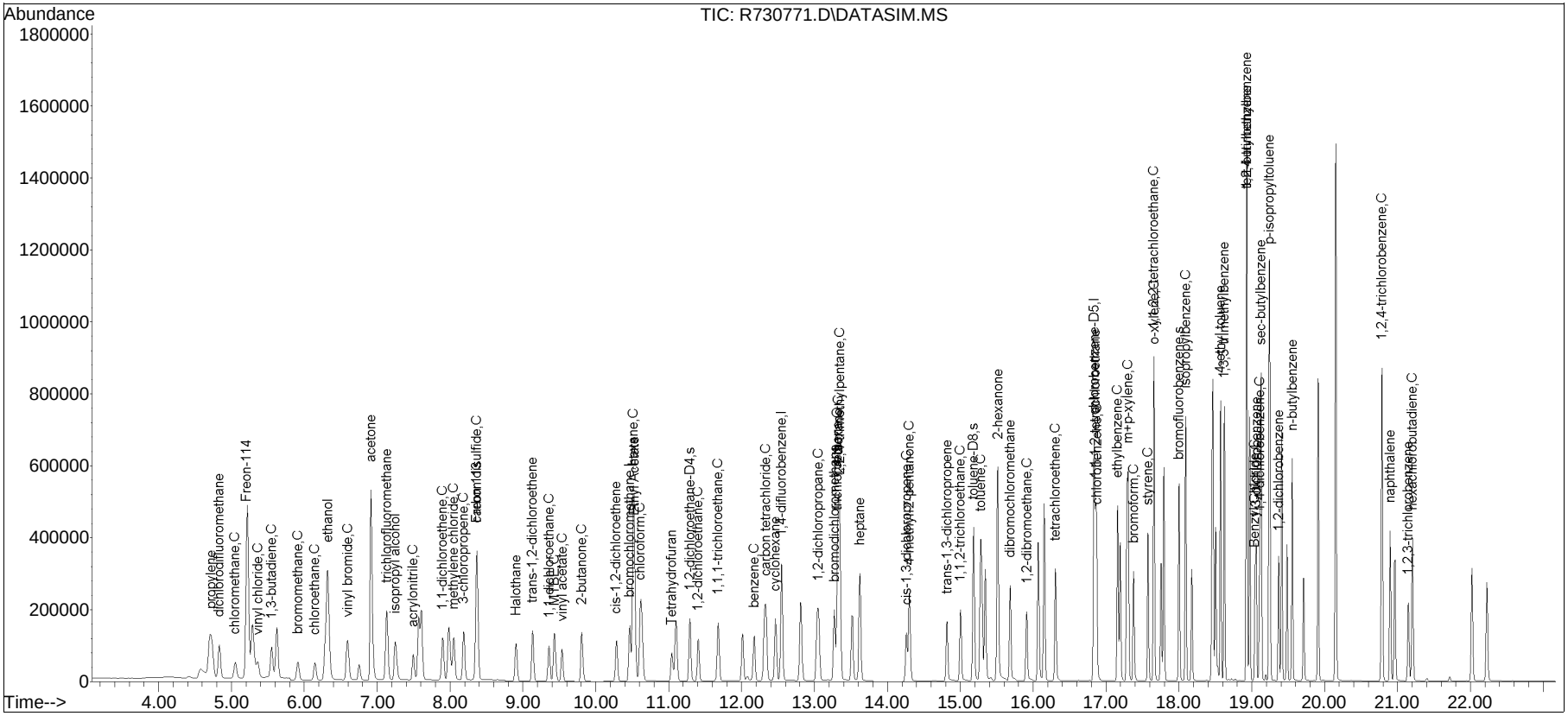
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) Benzyl Chloride	19.042	91	209173	4.740	ppbV		98
71) 1,3-dichlorobenzene	19.061	146	239207	4.597	ppbV		98
72) 1,4-dichlorobenzene	19.108	146	236039	4.571	ppbV		97
73) sec-butylbenzene	19.127	105	629166	5.144	ppbV		99
74) p-isopropyltoluene	19.238	119	553821	5.192	ppbV		99
75) 1,2-dichlorobenzene	19.370	146	235422	4.707	ppbV		97
76) n-butylbenzene	19.555	91	447681	5.172	ppbV		99
77) 1,2,4-trichlorobenzene	20.785	180	196548	4.248	ppbV		95
78) naphthalene	20.896	128	471836	5.469	ppbV		96
79) 1,2,3-trichlorobenzene	21.145	180	197966	4.330	ppbV	#	86
80) hexachlorobutadiene	21.205	225	266870	4.002	ppbV	#	94

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730771.D
Acq On : 28 Mar 2015 6:14 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 7 Sample Multiplier: 1

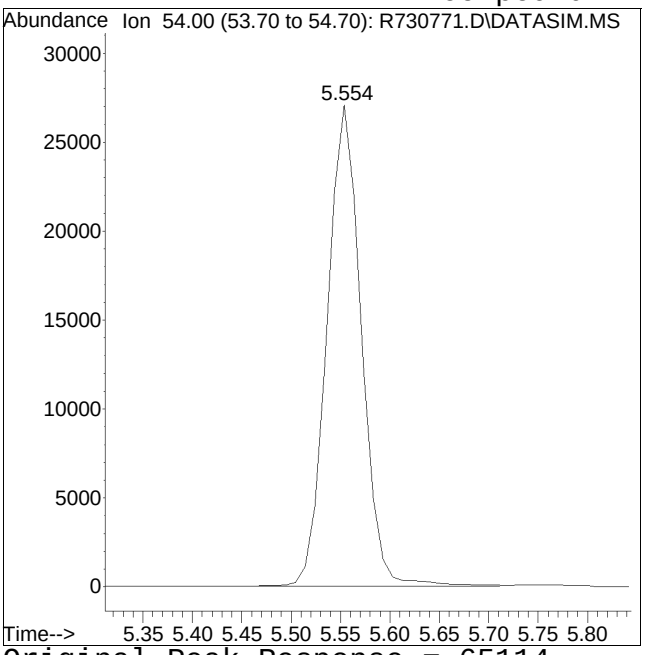
Quant Time: Mar 29 11:51:47 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 18 11:20:49 2015
Response via : Initial Calibration



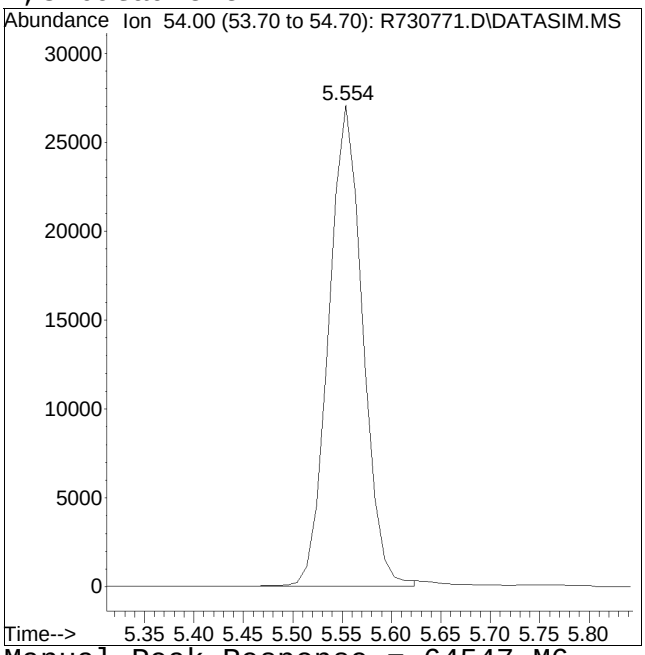
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730771.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:14 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD5.0 Quant Date : 3/29/2015 11:50 am

Compound #7: 1,3-butadiene



Original Peak Response = 65114



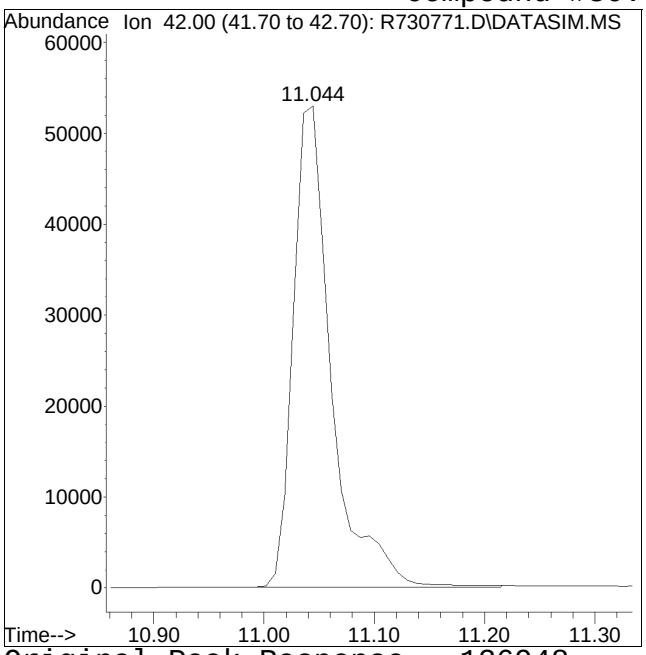
Manual Peak Response = 64547 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

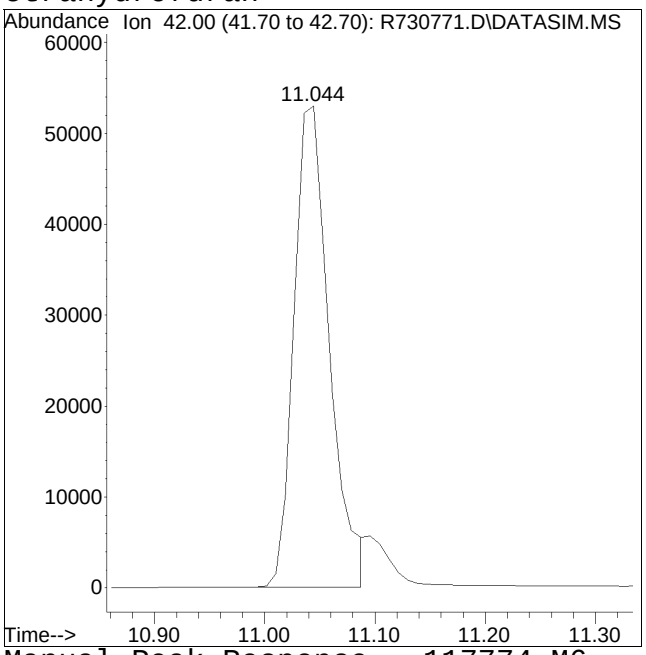
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730771.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:14 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD5.0 Quant Date : 3/29/2015 11:50 am

Compound #30: Tetrahydrofuran



Original Peak Response = 126948



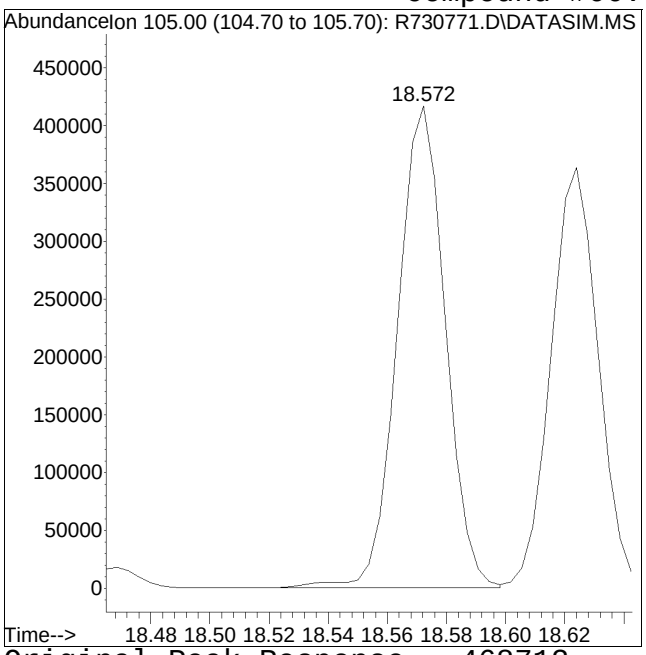
Manual Peak Response = 117774 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

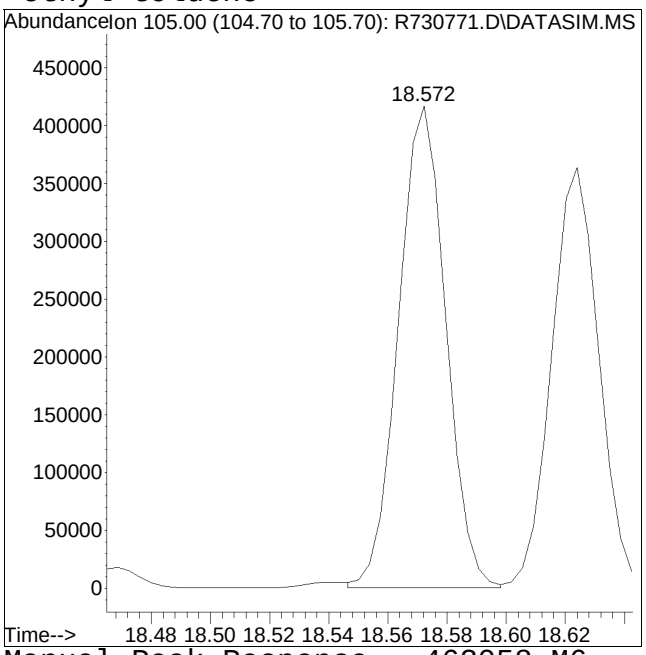
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730771.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:14 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD5.0 Quant Date : 3/29/2015 11:50 am

Compound #66: 4-ethyl toluene



Original Peak Response = 468712



Manual Peak Response = 463058 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771894
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 12:26:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.466	49	194212	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 101.97%			
32) 1,4-difluorobenzene	12.548	114	351518	10.000	ppbV	0.00
Standard Area = 343507			Recovery = 102.33%			
49) chlorobenzene-D5	16.835	54	122687	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 106.30%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.291	65	157093	9.904	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.04%			
51) toluene-D8	15.182	98	405769	9.866	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.66%			
64) bromofluorobenzene	17.999	95	279064	10.196	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.96%			
Target Compounds						Qvalue
2) propylene	4.735	41	193343M6	10.653	ppbV	
3) dichlorodifluoromethane	4.844	85	310148	11.098	ppbV	100
4) chloromethane	5.051	50	177600	9.840	ppbV	99
5) Freon-114	5.208	85	417358	10.166	ppbV	100
6) vinyl chloride	5.366	62	153871	9.992	ppbV	99
7) 1,3-butadiene	5.553	54	132341M6	10.054	ppbV	
8) bromomethane	5.914	94	135617	9.801	ppbV	100
9) chloroethane	6.146	64	68889	9.882	ppbV	99
10) ethanol	6.313	31	823321	49.585	ppbV	99
11) vinyl bromide	6.601	106	143796	9.954	ppbV	100
12) acetone	6.905	43	1589533	48.999	ppbV	100
13) trichlorofluoromethane	7.129	101	454144	9.757	ppbV	100
14) isopropyl alcohol	7.233	45	348911	10.032	ppbV	100
15) acrylonitrile	7.488	53	133657	10.009	ppbV	99
16) 1,1-dichloroethene	7.896	61	268896	9.929	ppbV	99
17) methylene chloride	8.048	49	244662	9.593	ppbV	99
18) 3-chloropropene	8.184	41	275205	9.954	ppbV	100
19) carbon disulfide	8.368	76	401156	9.974	ppbV	98
20) Freon 113	8.368	101	317183	9.778	ppbV	99
21) Halothane	8.901	117	249527	9.911	ppbV	100
22) trans-1,2-dichloroethene	9.132	61	248263	9.879	ppbV	99
23) 1,1-dichloroethane	9.358	63	287906	9.853	ppbV	100
24) MTBE	9.422	73	378570	9.973	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771894
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 12:26:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.531	43	347955	10.545	ppbV		99
26) 2-butanone	9.797	43	474096	9.842	ppbV		100
27) cis-1,2-dichloroethene	10.279	61	211100	9.841	ppbV		100
28) Ethyl Acetate	10.532	61	47799	9.805	ppbV		62
29) chloroform	10.607	83	303421	9.713	ppbV		100
30) Tetrahydrofuran	11.027	42	235238	9.794	ppbV	#	90
31) 1,2-dichloroethane	11.402	62	237054	9.731	ppbV		100
33) hexane	10.513	57	235476	9.719	ppbV		77
35) 1,1,1-trichloroethane	11.677	97	298681	9.776	ppbV		100
36) benzene	12.175	78	327309	9.701	ppbV		100
37) carbon tetrachloride	12.330	117	288590	9.751	ppbV		100
38) cyclohexane	12.465	56	202196	9.708	ppbV		99
39) 1,2-dichloropropane	13.055	63	190606	9.814	ppbV		99
40) bromodichloromethane	13.273	83	388625	9.987	ppbV		99
41) 1,4-dioxane	13.314	88	114883	9.968	ppbV		89
42) trichloroethene	13.314	130	246669	9.780	ppbV		100
43) 2,2,4-trimethylpentane	13.345	57	962073	9.767	ppbV		99
44) heptane	13.625	43	432686	9.903	ppbV		100
45) cis-1,3-dichloropropene	14.258	75	248531	10.271	ppbV		98
46) 4-methyl-2-pentanone	14.296	43	626563	9.925	ppbV		99
47) trans-1,3-dichloropropene	14.820	75	247091	10.552	ppbV		99
48) 1,1,2-trichloroethane	15.001	97	205637	9.960	ppbV		100
50) toluene	15.281	91	599212	9.559	ppbV		100
52) 2-hexanone	15.507	43	602679	9.763	ppbV		97
53) dibromochloromethane	15.688	129	417418	9.935	ppbV		100
54) 1,2-dibromoethane	15.914	107	332831	9.839	ppbV		100
55) tetrachloroethene	16.303	166	309890	9.838	ppbV		100
56) 1,1,1,2-tetrachloroethane	16.854	131	301515	9.573	ppbV		99
57) chlorobenzene	16.872	112	499827	9.910	ppbV		99
58) ethylbenzene	17.160	91	791497	9.898	ppbV		100
59) m+p-xylene	17.305	91	1246816	19.809	ppbV		100
60) bromoform	17.378	173	383618	10.346	ppbV		100
61) styrene	17.574	104	469448	10.218	ppbV		100
62) 1,1,2,2-tetrachloroethane	17.656	83	430222	9.748	ppbV		100
63) o-xylene	17.659	91	658655	9.780	ppbV		100
65) isopropylbenzene	18.092	105	947506	9.615	ppbV		100
66) 4-ethyl toluene	18.572	105	982249M6	9.978	ppbV		
67) 1,3,5-trimethylbenzene	18.624	105	830487	9.686	ppbV		100
68) tert-butylbenzene	18.931	119	930274	9.424	ppbV		99
69) 1,2,4-trimethylbenzene	18.931	105	821233	9.824	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771894
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 12:26:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

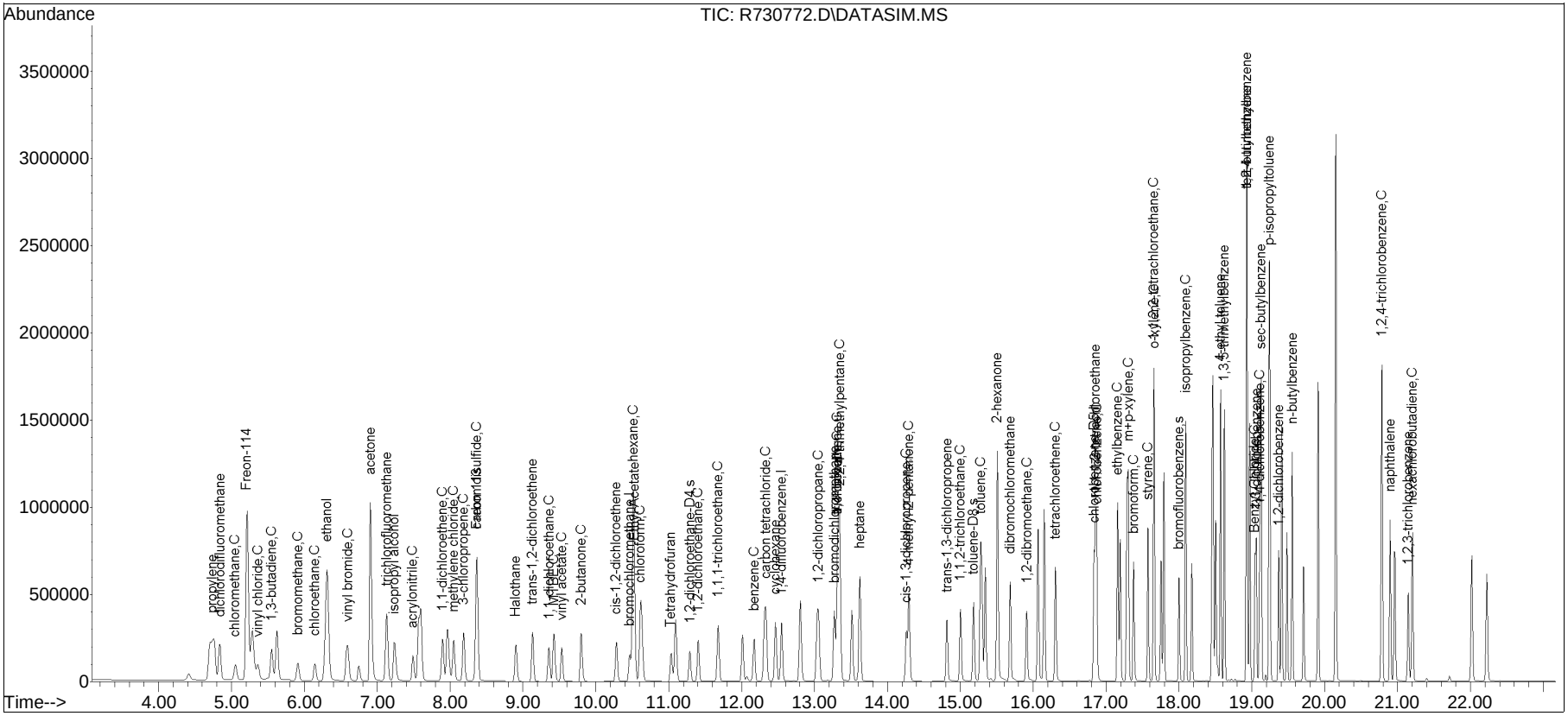
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Benzyl Chloride	19.042	91	499034	11.222	ppbV	100
71) 1,3-dichlorobenzene	19.060	146	516135	10.150	ppbV	99
72) 1,4-dichlorobenzene	19.108	146	508794	10.139	ppbV	100
73) sec-butylbenzene	19.127	105	1269484	9.491	ppbV	99
74) p-isopropyltoluene	19.237	119	1134387	9.635	ppbV	100
75) 1,2-dichlorobenzene	19.370	146	507224	10.135	ppbV	99
76) n-butylbenzene	19.555	91	950993	9.992	ppbV	99
77) 1,2,4-trichlorobenzene	20.785	180	431319	10.323	ppbV	99
78) naphthalene	20.896	128	1033544	10.304	ppbV	100
79) 1,2,3-trichlorobenzene	21.145	180	434533	10.325	ppbV	98
80) hexachlorobutadiene	21.204	225	568124	10.014	ppbV	97

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730772.D
Acq On : 28 Mar 2015 6:48 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD10.0
Misc : WG771894
ALS Vial : 7 Sample Multiplier: 1

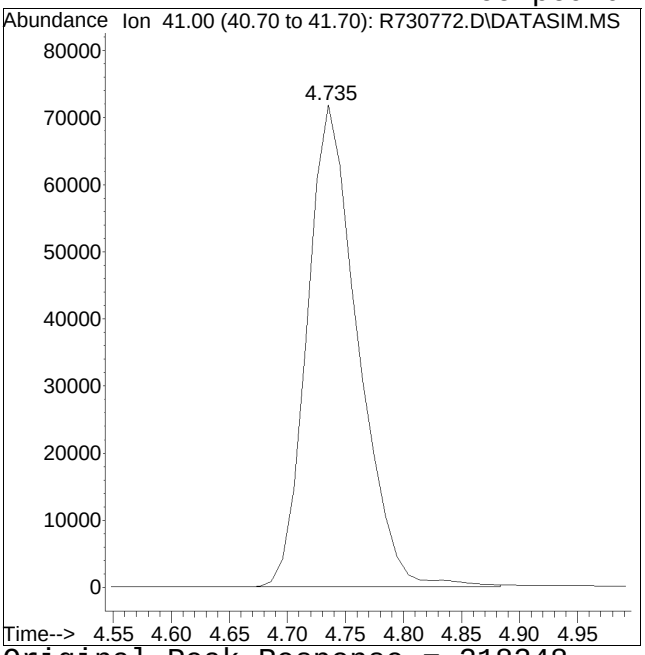
Quant Time: Mar 29 12:26:55 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration



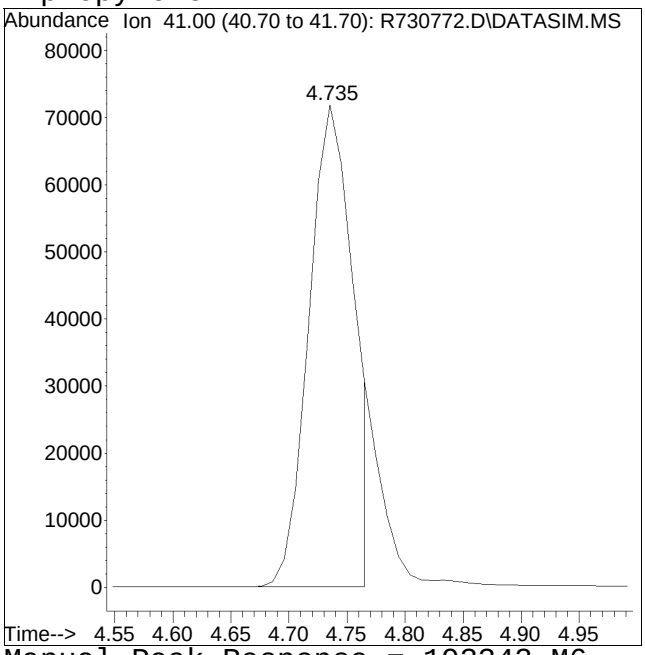
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730772.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:48 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD10.0 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 218248



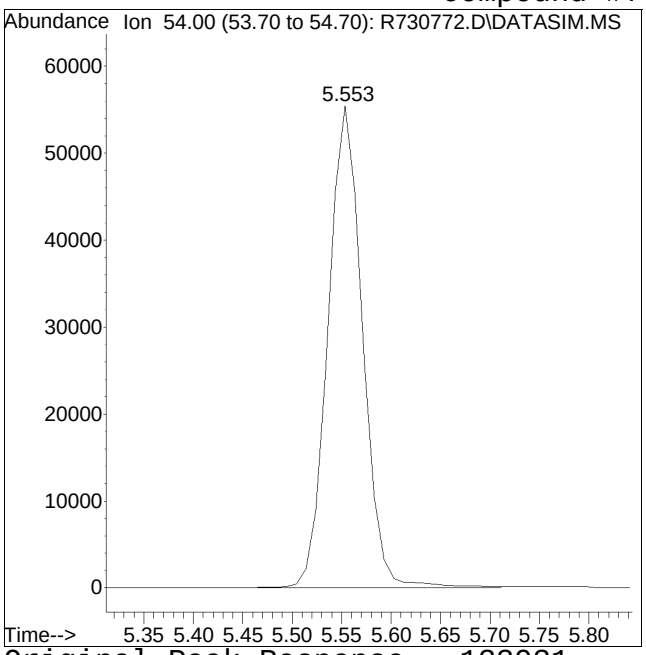
Manual Peak Response = 193343 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

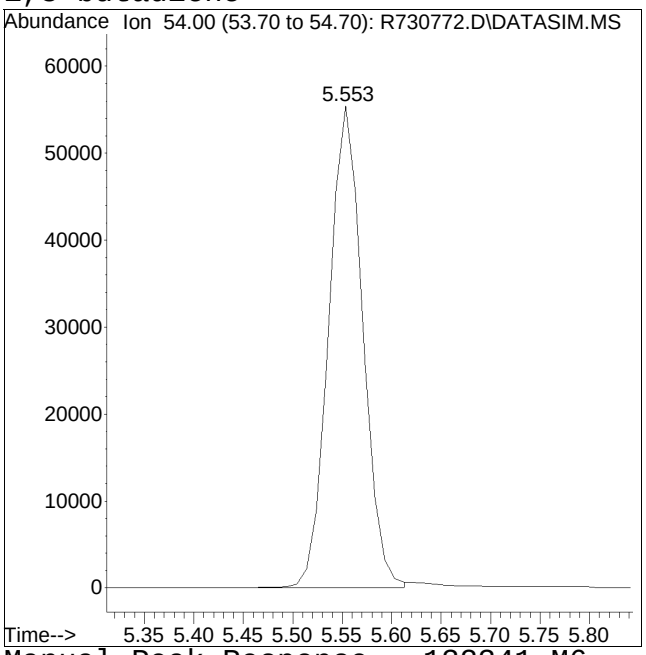
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730772.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:48 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD10.0 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 133931



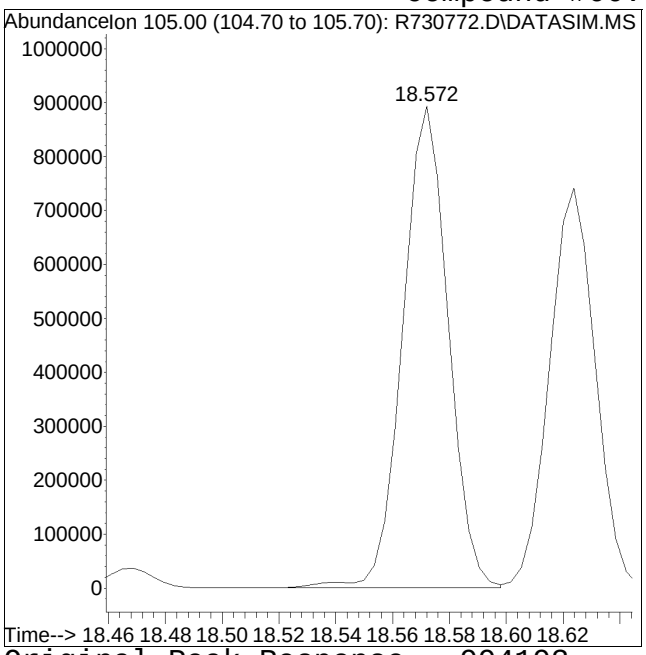
Manual Peak Response = 132341 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

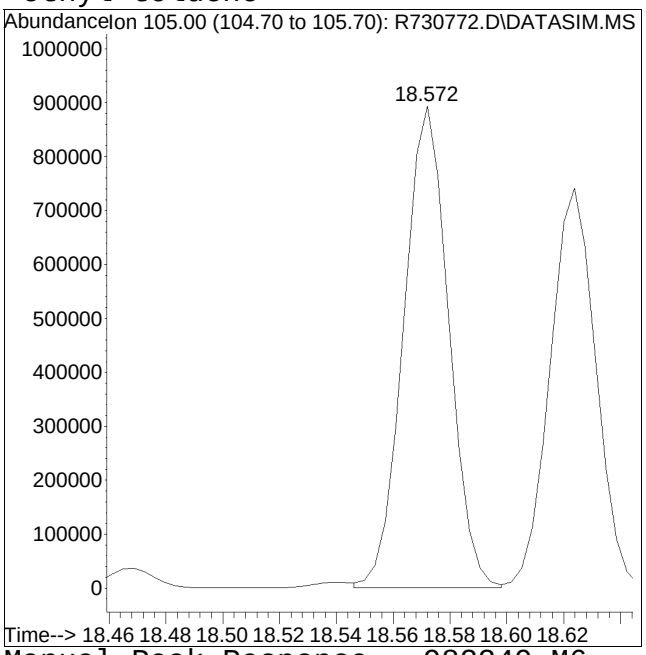
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730772.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 6:48 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD10.0 Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 994193



Manual Peak Response = 982249 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771894
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 12:28:36 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.467	49	200422	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 105.23%			
32) 1,4-difluorobenzene	12.548	114	477377	10.000	ppbV	0.00
Standard Area = 343507			Recovery = 138.97%			
49) chlorobenzene-D5	16.835	54	131475	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 113.91%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.292	65	158609	7.363	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 73.63%			
51) toluene-D8	15.182	98	422791	9.593	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.93%			
64) bromofluorobenzene	18.003	95	303725	10.355	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.55%			
Target Compounds						Qvalue
2) propylene	4.735	41	398606M6	21.283	ppbV	
3) dichlorodifluoromethane	4.844	85	617507	21.411	ppbV	100
4) chloromethane	5.051	50	368704	19.795	ppbV	100
5) Freon-114	5.209	85	818625	19.322	ppbV	100
6) vinyl chloride	5.366	62	321023	20.201	ppbV	99
7) 1,3-butadiene	5.554	54	274897M6	20.237	ppbV	
8) bromomethane	5.914	94	288031	20.171	ppbV	100
9) chloroethane	6.146	64	142911	19.865	ppbV	100
10) ethanol	6.321	31	1693416	98.827	ppbV	100
11) vinyl bromide	6.601	106	301912	20.253	ppbV	100
12) acetone	6.905	43	3322746	99.253	ppbV	100
13) trichlorofluoromethane	7.129	101	942893	19.630	ppbV	100
14) isopropyl alcohol	7.233	45	732979	20.421	ppbV	100
15) acrylonitrile	7.489	53	281760	20.447	ppbV	99
16) 1,1-dichloroethene	7.896	61	563173	20.151	ppbV	99
17) methylene chloride	8.048	49	507036	19.265	ppbV	99
18) 3-chloropropene	8.184	41	583272	20.443	ppbV	99
19) carbon disulfide	8.368	76	846107	20.384	ppbV	97
20) Freon 113	8.368	101	659024	19.687	ppbV	99
21) Halothane	8.907	117	539401	20.761	ppbV	99
22) trans-1,2-dichloroethene	9.133	61	522972	20.165	ppbV	99
23) 1,1-dichloroethane	9.358	63	601393	19.943	ppbV	100
24) MTBE	9.422	73	802985	20.498	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771894
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 12:28:36 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25)	vinyl acetate	9.531	43	833118	24.465	ppbV		99
26)	2-butanone	9.797	43	988568	19.886	ppbV		100
27)	cis-1,2-dichloroethene	10.279	61	441703	19.953	ppbV		100
28)	Ethyl Acetate	10.532	61	99964	19.871	ppbV		63
29)	chloroform	10.617	83	630481	19.557	ppbV		97
30)	Tetrahydrofuran	11.027	42	480746M6	19.396	ppbV		
31)	1,2-dichloroethane	11.411	62	484712	19.280	ppbV		96
33)	hexane	10.514	57	485651	14.760	ppbV		82
35)	1,1,1-trichloroethane	11.678	97	615343	14.830	ppbV		100
36)	benzene	12.175	78	675726	14.747	ppbV		99
37)	carbon tetrachloride	12.341	117	589691	14.672	ppbV		97
38)	cyclohexane	12.465	56	414379	14.650	ppbV		98
39)	1,2-dichloropropane	13.066	63	403317	15.292	ppbV		94
40)	bromodichloromethane	13.273	83	826336	15.637	ppbV		99
41)	1,4-dioxane	13.304	88	246870	15.773	ppbV		95
42)	trichloroethene	13.325	130	507966	14.831	ppbV		95
43)	2,2,4-trimethylpentane	13.345	57	1994963	14.914	ppbV		99
44)	heptane	13.625	43	906026	15.269	ppbV		99
45)	cis-1,3-dichloropropene	14.263	75	538505	16.387	ppbV		99
46)	4-methyl-2-pentanone	14.292	43	1306499	15.239	ppbV		99
47)	trans-1,3-dichloropropene	14.821	75	545806	17.163	ppbV		98
48)	1,1,2-trichloroethane	15.010	97	434684	15.503	ppbV		90
50)	toluene	15.281	91	1260688	18.767	ppbV		100
52)	2-hexanone	15.507	43	1256979	19.001	ppbV		98
53)	dibromochloromethane	15.688	129	916952	20.365	ppbV		99
54)	1,2-dibromoethane	15.914	107	723884	19.969	ppbV		99
55)	tetrachloroethene	16.312	166	675621	20.015	ppbV	#	91
56)	1,1,1,2-tetrachloroethane	16.858	131	638073	18.905	ppbV		99
57)	chlorobenzene	16.872	112	1087178	20.114	ppbV		98
58)	ethylbenzene	17.161	91	1696800	19.800	ppbV		99
59)	m+p-xylene	17.305	91	2665522	39.517	ppbV		100
60)	bromoform	17.379	173	887281	22.331	ppbV		99
61)	styrene	17.578	104	1038571	21.094	ppbV		100
62)	1,1,2,2-tetrachloroethane	17.656	83	912942	19.303	ppbV		100
63)	o-xylene	17.659	91	1380641	19.130	ppbV		99
65)	isopropylbenzene	18.096	105	1974107	18.694	ppbV		99
66)	4-ethyl toluene	18.572	105	2094951M6	19.859	ppbV		
67)	1,3,5-trimethylbenzene	18.624	105	1734391	18.876	ppbV		100
68)	tert-butylbenzene	18.931	119	1873210	17.707	ppbV		98
69)	1,2,4-trimethylbenzene	18.931	105	1701232	18.991	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771894
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 12:28:36 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

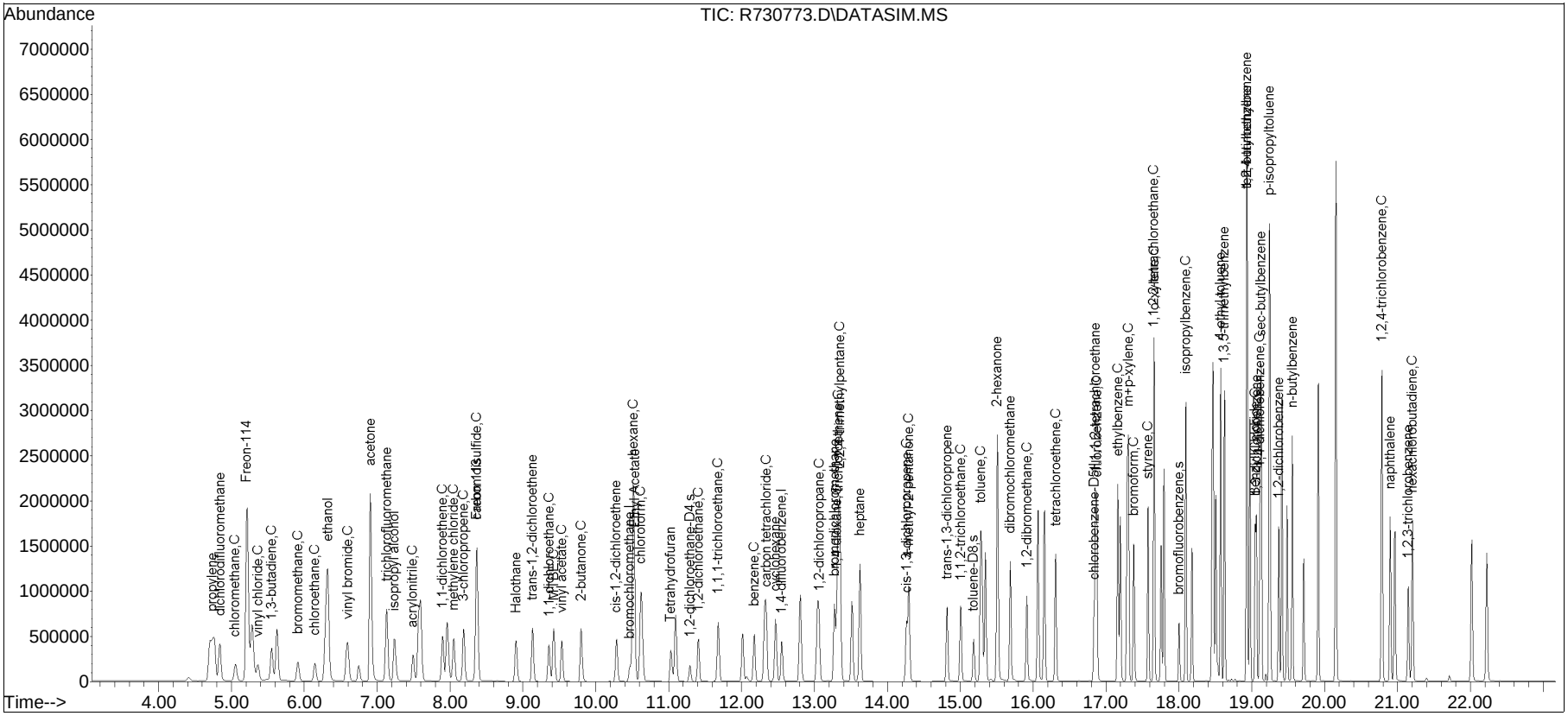
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Benzyl Chloride	19.046	91	1202218	25.228	ppbV	99
71) 1,3-dichlorobenzene	19.064	146	1152028	21.140	ppbV	99
72) 1,4-dichlorobenzene	19.112	146	1148214	21.353	ppbV	98
73) sec-butylbenzene	19.127	105	2614781	18.242	ppbV	99
74) p-isopropyltoluene	19.241	119	2335902	18.514	ppbV	98
75) 1,2-dichlorobenzene	19.370	146	1115862	20.805	ppbV	98
76) n-butylbenzene	19.555	91	1990048	19.512	ppbV	99
77) 1,2,4-trichlorobenzene	20.785	180	926993	20.702	ppbV	98
78) naphthalene	20.896	128	2120946	19.731	ppbV	99
79) 1,2,3-trichlorobenzene	21.145	180	909442	20.165	ppbV	97
80) hexachlorobutadiene	21.205	225	1177963	19.375	ppbV	95

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730773.D
Acq On : 28 Mar 2015 7:20 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD20.0
Misc : WG771894
ALS Vial : 8 Sample Multiplier: 1

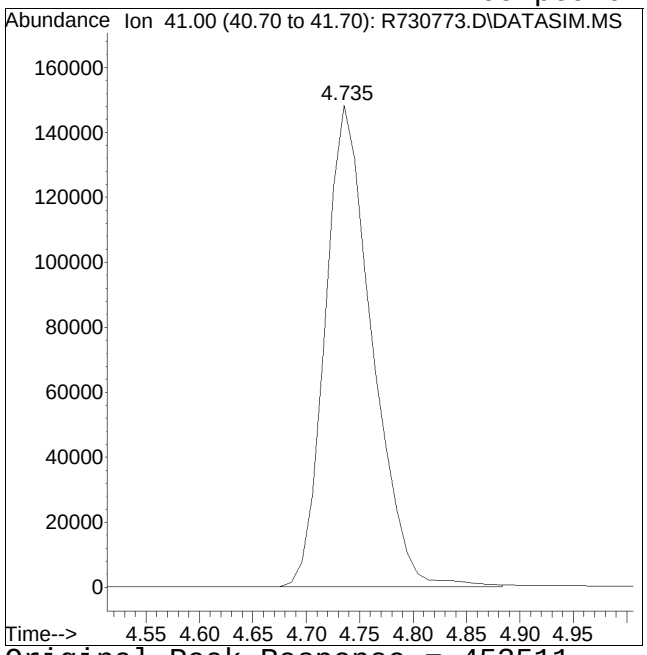
Quant Time: Mar 29 12:28:36 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration



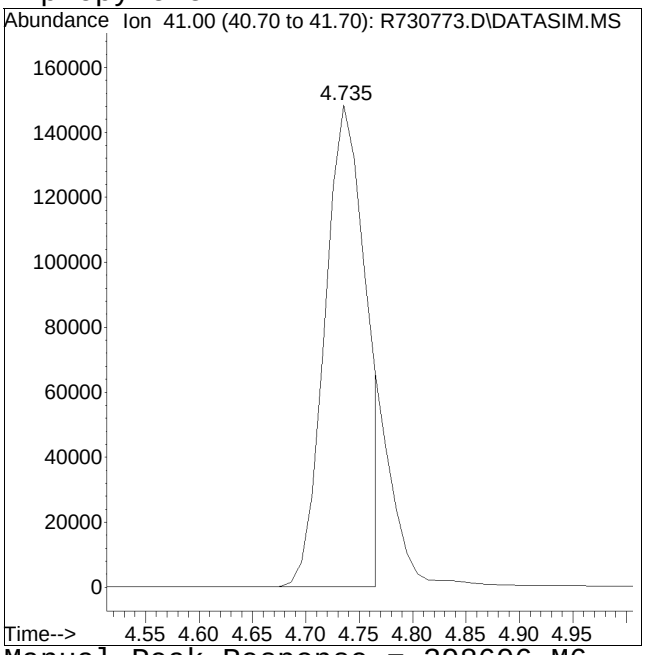
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730773.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:20 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD20.0 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 453511



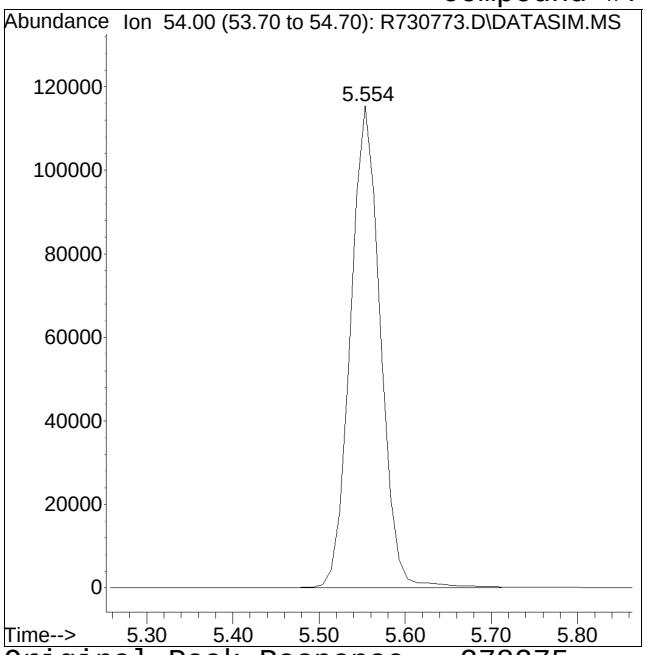
Manual Peak Response = 398606 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

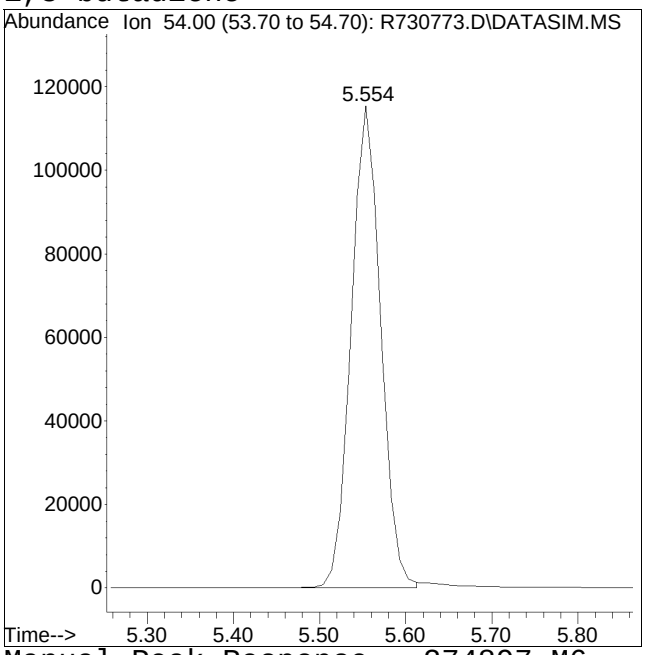
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730773.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:20 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD20.0 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 278275



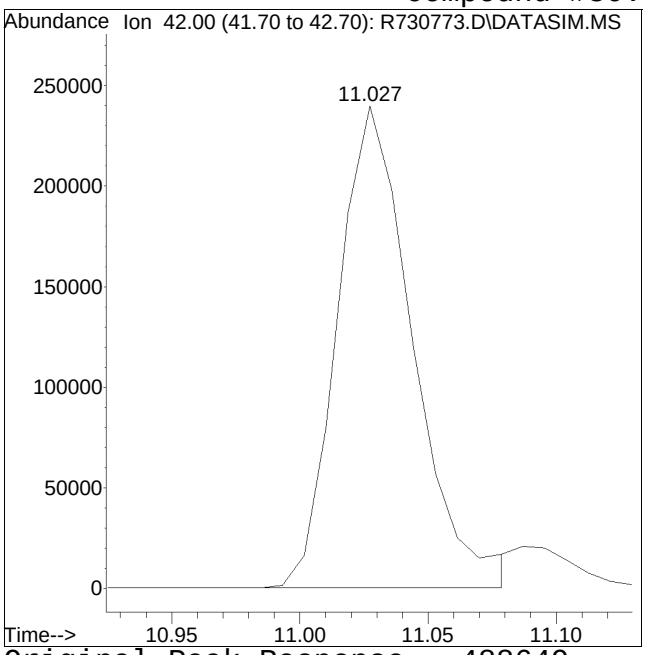
Manual Peak Response = 274897 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

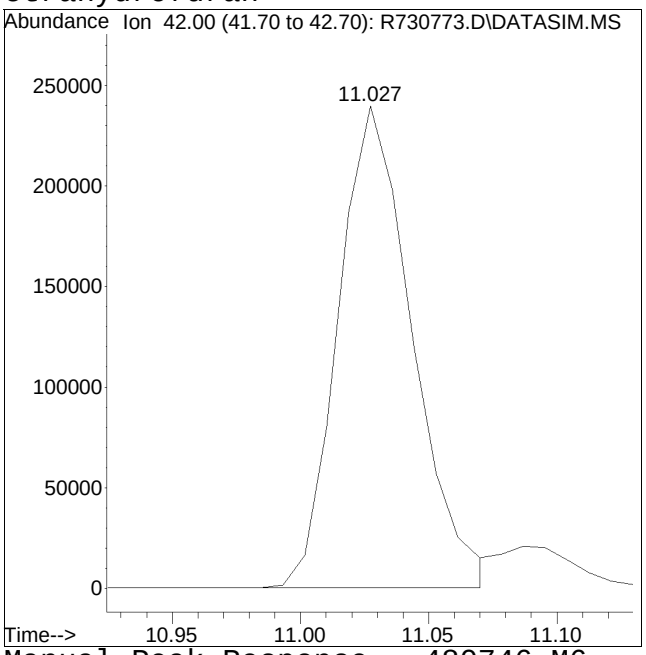
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730773.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:20 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD20.0 Quant Date : 3/29/2015 11:53 am

Compound #30: Tetrahydrofuran



Original Peak Response = 488649



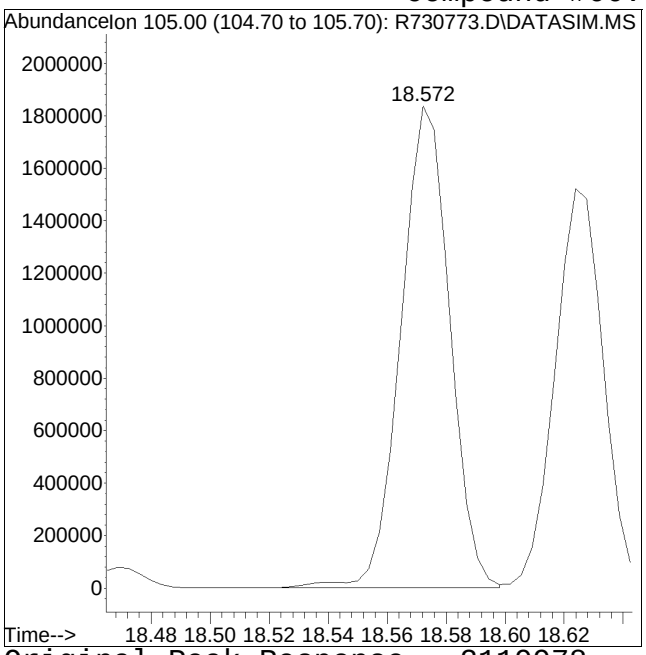
Manual Peak Response = 480746 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

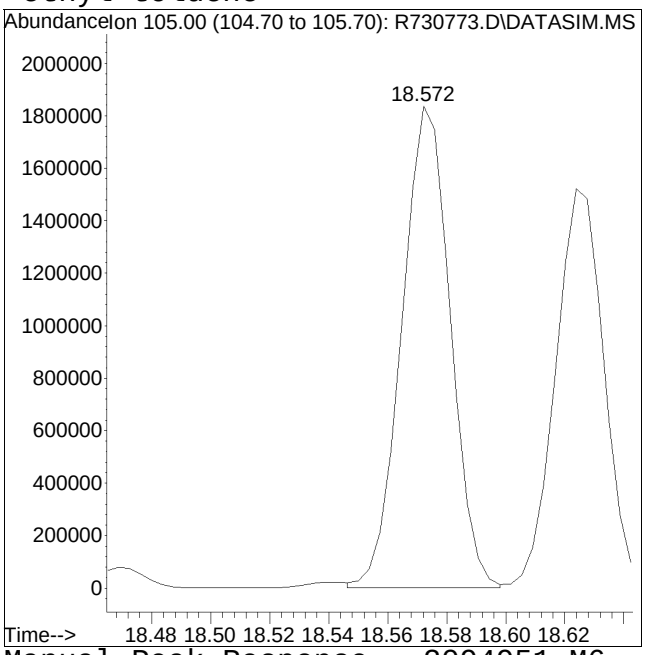
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730773.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:20 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD20.0 Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 2119978



Manual Peak Response = 2094951 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730774.D
Acq On : 28 Mar 2015 7:52 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD50.0
Misc : WG771894
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 12:29:58 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.466	49	211818	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 111.21%			
32) 1,4-difluorobenzene	12.558	114	359749	10.000	ppbV	# 0.01
Standard Area = 343507			Recovery = 104.73%			
49) chlorobenzene-D5	16.835	54	134541	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 116.57%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.300	65	163022	10.042	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.42%			
51) toluene-D8	15.182	98	443586	9.835	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.35%			
64) bromofluorobenzene	18.003	95	332306	11.071	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.71%			
Target Compounds						Qvalue
2) propylene	4.735	41	938074M6	47.392	ppbV	
3) dichlorodifluoromethane	4.844	85	1269371	41.646	ppbV	100
4) chloromethane	5.051	50	884903	44.953	ppbV	100
5) Freon-114	5.208	85	1561340	34.869	ppbV	98
6) vinyl chloride	5.366	62	784709	46.723	ppbV	99
7) 1,3-butadiene	5.553	54	664212M6	46.266	ppbV	
8) bromomethane	5.914	94	714501	47.346	ppbV	100
9) chloroethane	6.145	64	352098	46.309	ppbV	100
10) ethanol	6.337	31	3841276	212.115	ppbV	96
11) vinyl bromide	6.601	106	752237	47.746	ppbV	100
12) acetone	6.913	43	7586479	214.421	ppbV	97
13) trichlorofluoromethane	7.129	101	2286506	45.042	ppbV	100
14) isopropyl alcohol	7.249	45	1769733	46.653	ppbV	100
15) acrylonitrile	7.496	53	694108	47.660	ppbV	99
16) 1,1-dichloroethene	7.896	61	1374346	46.529	ppbV	99
17) methylene chloride	8.048	49	1217804	43.782	ppbV	100
18) 3-chloropropene	8.184	41	1406372	46.639	ppbV	99
19) carbon disulfide	8.368	76	2101749	47.910	ppbV	94
20) Freon 113	8.368	101	1610783	45.531	ppbV	97
21) Halothane	8.907	117	1357888	49.452	ppbV	98
22) trans-1,2-dichloroethene	9.132	61	1285165	46.888	ppbV	99
23) 1,1-dichloroethane	9.357	63	1469541	46.110	ppbV	99
24) MTBE	9.422	73	1988581	48.031	ppbV	99

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730774.D
Acq On : 28 Mar 2015 7:52 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD50.0
Misc : WG771894
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 12:29:58 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.538	43	2226927	61.876	ppbV		100
26) 2-butanone	9.803	43	2408346	45.840	ppbV		99
27) cis-1,2-dichloroethene	10.288	61	1082388	46.264	ppbV		92
28) Ethyl Acetate	10.542	61	241458	45.415	ppbV	#	28
29) chloroform	10.626	83	1515219	44.472	ppbV		96
30) Tetrahydrofuran	11.027	42	1156203	44.138	ppbV		97
31) 1,2-dichloroethane	11.411	62	1151713	43.346	ppbV		99
33) hexane	10.513	57	1147196	46.266	ppbV		83
35) 1,1,1-trichloroethane	11.677	97	1452827	46.462	ppbV		99
36) benzene	12.175	78	1631300	47.243	ppbV		97
37) carbon tetrachloride	12.340	117	1355964	44.768	ppbV		99
38) cyclohexane	12.465	56	990295	46.458	ppbV		96
39) 1,2-dichloropropane	13.065	63	967726	48.688	ppbV		97
40) bromodichloromethane	13.283	83	2029200	50.955	ppbV		99
41) 1,4-dioxane	13.314	88	592383	50.225	ppbV		83
42) trichloroethene	13.324	130	1202474	46.587	ppbV		98
43) 2,2,4-trimethylpentane	13.345	57	4683938	46.466	ppbV		97
44) heptane	13.625	43	2130873	47.654	ppbV		97
45) cis-1,3-dichloropropene	14.267	75	1328894	53.661	ppbV		100
46) 4-methyl-2-pentanone	14.300	43	3099109	47.967	ppbV		98
47) trans-1,3-dichloropropene	14.820	75	1374626	57.358	ppbV		92
48) 1,1,2-trichloroethane	15.010	97	1045406	49.476	ppbV		98
50) toluene	15.281	91	2977341	43.311	ppbV		100
52) 2-hexanone	15.516	43	2841283	41.970	ppbV		96
53) dibromochloromethane	15.688	129	2242996	48.681	ppbV		97
54) 1,2-dibromoethane	15.914	107	1770856	47.738	ppbV		97
55) tetrachloroethene	16.312	166	1691590	48.972	ppbV		93
56) 1,1,1,2-tetrachloroethane	16.861	131	1501189	43.464	ppbV		99
57) chlorobenzene	16.876	112	2633286	47.609	ppbV		97
58) ethylbenzene	17.164	91	4053089	46.219	ppbV		100
59) m+p-xylene	17.312	91	6307032	91.374	ppbV		99
60) bromoform	17.386	173	2292910	56.391	ppbV		99
61) styrene	17.582	104	2529858	50.212	ppbV		98
62) 1,1,2,2-tetrachloroethane	17.659	83	2119992	43.803	ppbV		100
63) o-xylene	17.667	91	3127010	42.341	ppbV		100
65) isopropylbenzene	18.099	105	4495503	41.600	ppbV		96
66) 4-ethyl toluene	18.576	105	4914268M6	45.522	ppbV		
67) 1,3,5-trimethylbenzene	18.631	105	4059885	43.177	ppbV		98
68) tert-butylbenzene	18.935	119	4002963	36.978	ppbV		97
69) 1,2,4-trimethylbenzene	18.939	105	3718326	40.563	ppbV		88

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730774.D
Acq On : 28 Mar 2015 7:52 pm
Operator : AIRLAB7:MB
Sample : ITO15-SIMSTD50.0
Misc : WG771894
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 12:29:58 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) Benzyl Chloride	19.053	91	3204941	65.723	ppbV		95
71) 1,3-dichlorobenzene	19.068	146	2949387	52.888	ppbV		98
72) 1,4-dichlorobenzene	19.116	146	2876971	52.282	ppbV		100
73) sec-butylbenzene	19.130	105	5714454	38.959	ppbV		95
74) p-isopropyltoluene	19.245	119	4953544	38.366	ppbV		95
75) 1,2-dichlorobenzene	19.378	146	2841502	51.773	ppbV		99
76) n-butylbenzene	19.558	91	4619731	44.264	ppbV		94
77) 1,2,4-trichlorobenzene	20.785	180	2259463	49.310	ppbV		97
78) naphthalene	20.905	128	5442864	49.481	ppbV		100
79) 1,2,3-trichlorobenzene	21.153	180	2512860	54.447	ppbV	#	91
80) hexachlorobutadiene	21.205	225	2662732	42.798	ppbV		96

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730774.D
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Operator : AIRLAB7:MB
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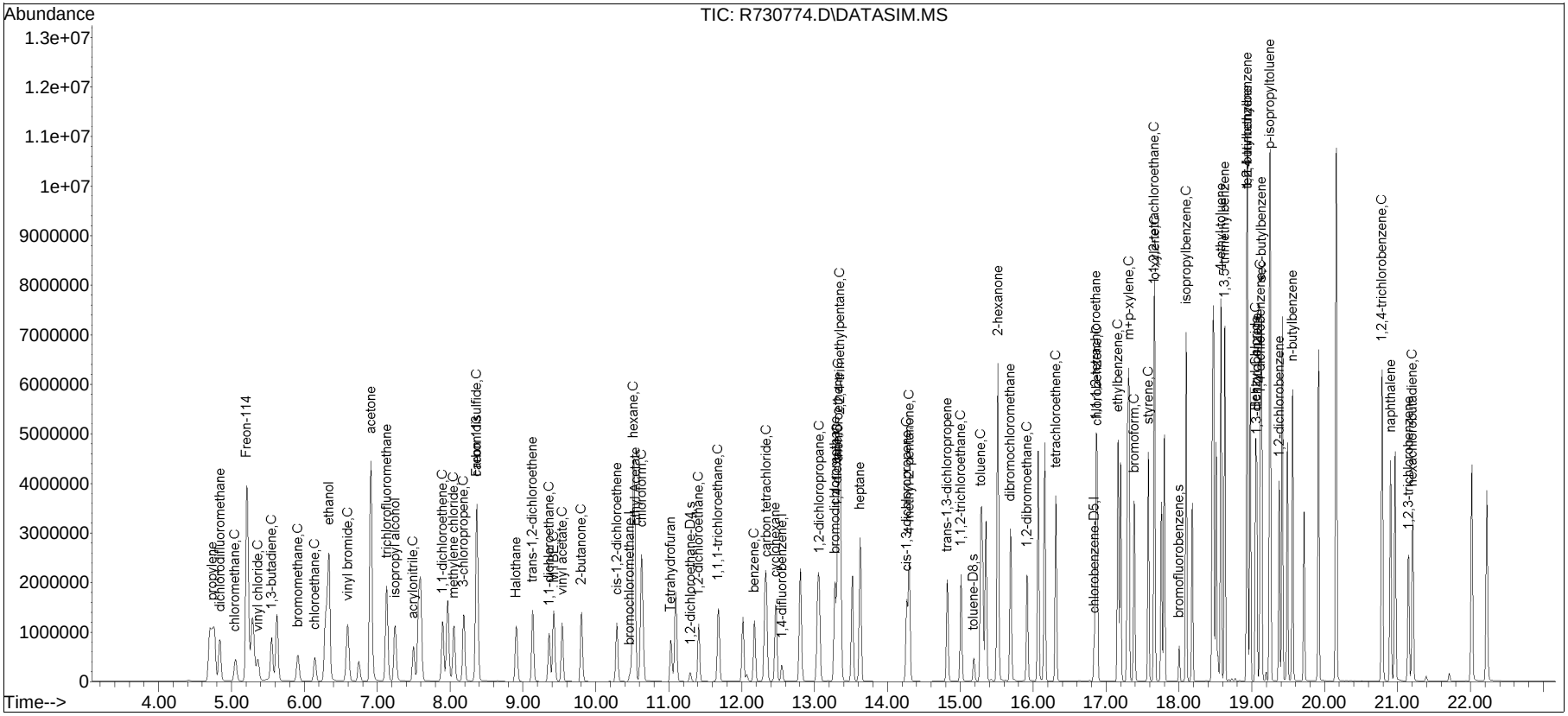
ALS Vial : 8 Sample Multiplier: 1

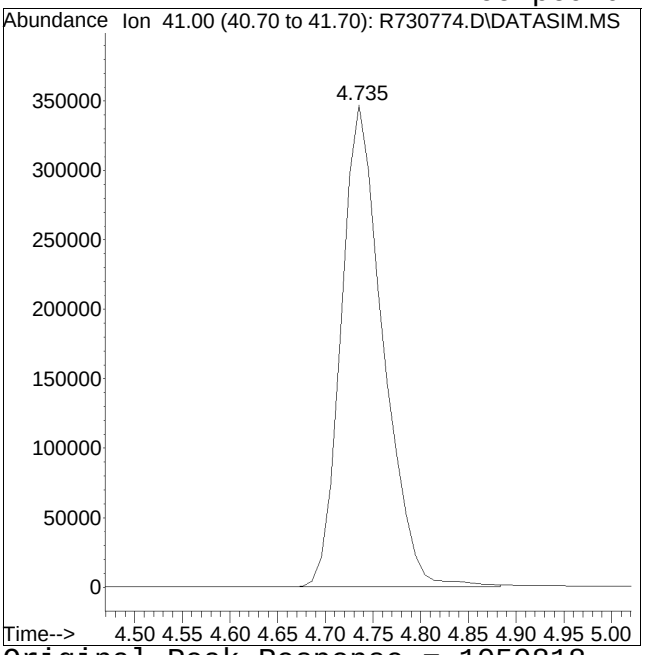
Quant Time: Mar 29 12:29:58 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 11:52:15 2015
Response via : Initial Calibration



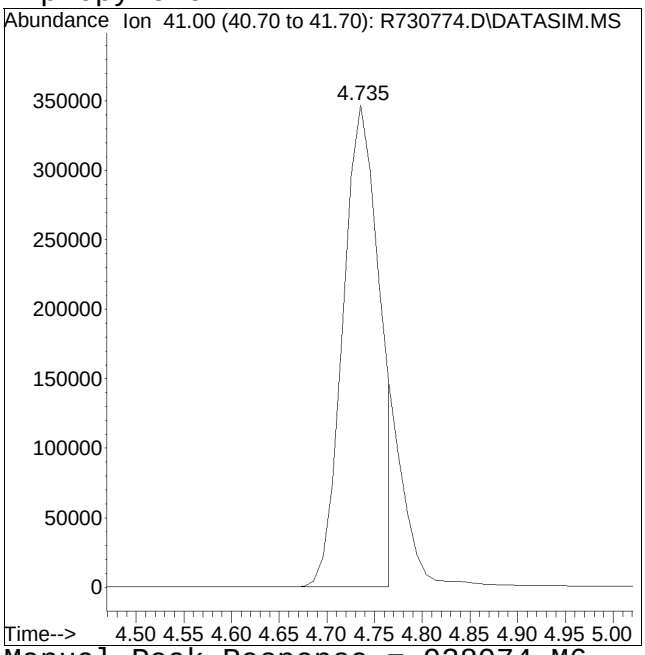
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730774.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:52 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD50.0 Quant Date : 3/29/2015 11:53 am

Compound #2: propylene



Original Peak Response = 1059818



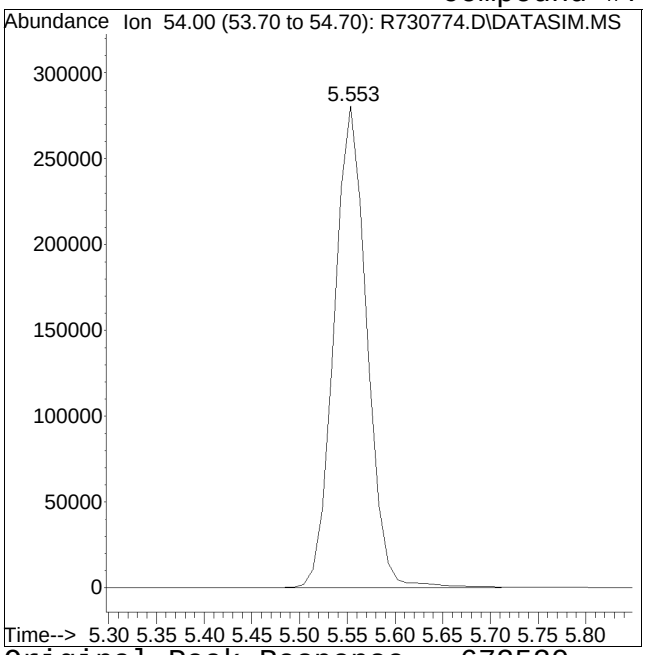
Manual Peak Response = 938074 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

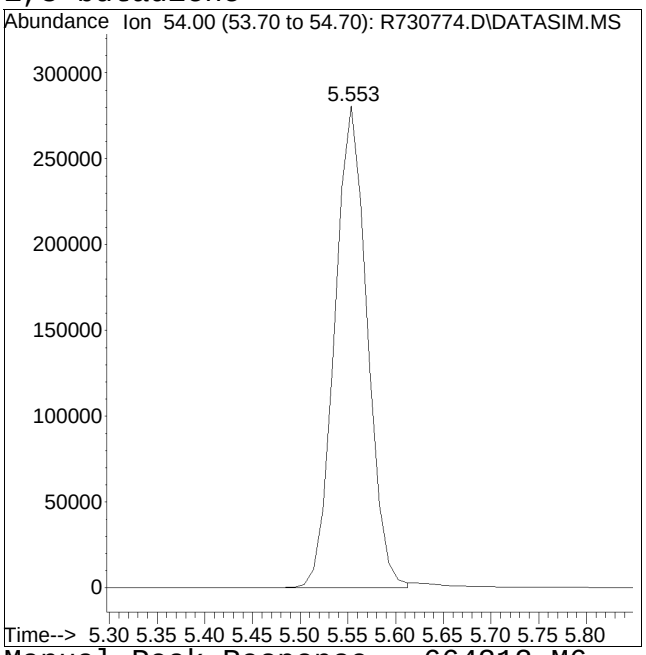
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730774.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:52 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD50.0 Quant Date : 3/29/2015 11:53 am

Compound #7: 1,3-butadiene



Original Peak Response = 672520



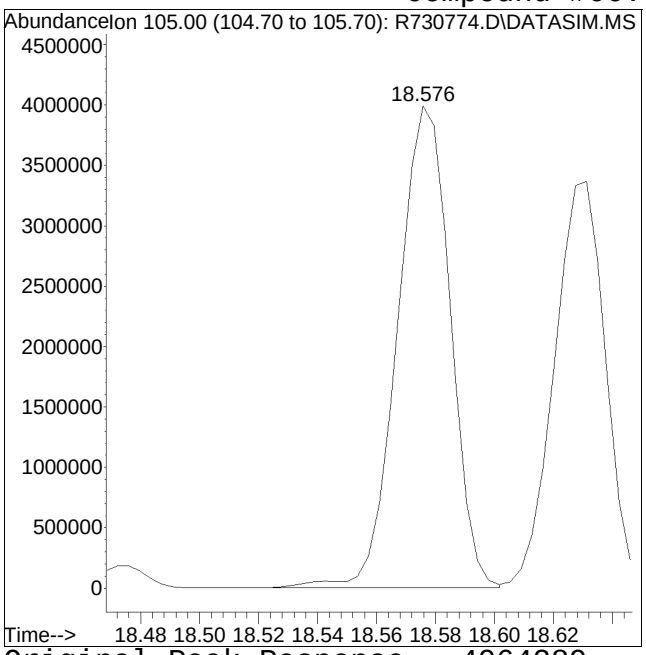
Manual Peak Response = 664212 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

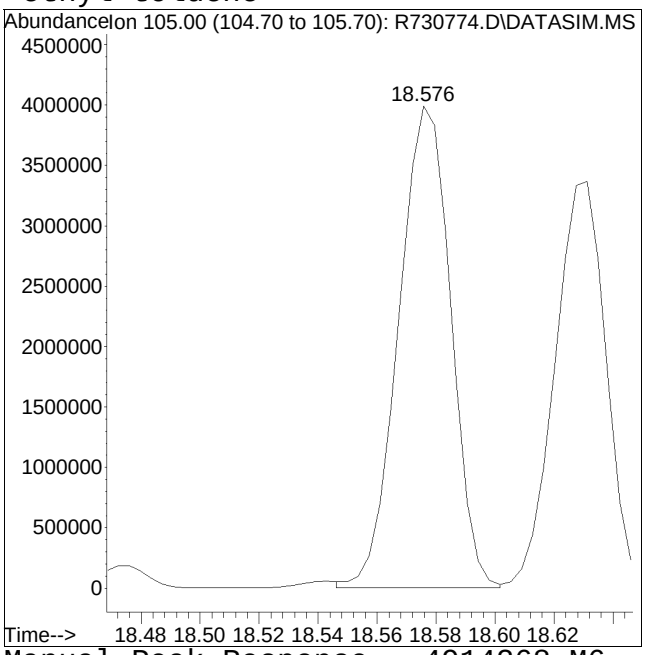
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730774.D Operator : AIRLAB7:MB
Date Inj'd : 3/28/2015 7:52 pm Instrument : Airlab 7
Sample : ITO15-SIMSTD50.0 Quant Date : 3/29/2015 11:53 am

Compound #66: 4-ethyl toluene



Original Peak Response = 4964289



Manual Peak Response = 4914268 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730779.D
Acq On : 29 Mar 2015 10:49 am
Operator : AIRLAB7:MB
Sample : CTO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 12:34:17 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	95	0.00
2		propylene	0.961	0.928	3.4	95	0.00
3		dichlorodifluoromethane	1.519	1.128	25.7	75	0.00
4	C	chloromethane	0.978	0.829	15.2	85	0.00
5		Freon-114	2.144	1.797	16.2	81	0.00
6	C	vinyl chloride	0.803	0.729	9.2	88	0.00
7	C	1,3-butadiene	0.679	0.668	1.6	94	0.00
8	C	bromomethane	0.736	0.684	7.1	92	0.00
9	C	chloroethane	0.369	0.334	9.5	89	0.00
10		ethanol	0.830	0.693	16.5	77	0.00
11	C	vinyl bromide	0.752	0.700	6.9	90	0.00
12		acetone	1.706	1.573	7.8	90	0.00
13		trichlorofluoromethane	2.427	2.114	12.9	84	0.00
14		isopropyl alcohol	1.782	1.743	2.2	93	0.00
15	C	acrylonitrile	0.703	0.613	12.8	85	0.00
16	C	1,1-dichloroethene	1.417	1.269	10.4	87	0.00
17	C	methylene chloride	1.330	1.158	12.9	84	0.00
18	C	3-chloropropene	1.419	1.407	0.8	94	0.00
19	C	carbon disulfide	2.098	1.885	10.2	87	0.00
20		Freon 113	1.697	1.533	9.7	88	0.00
21		Halothane	1.324	1.145	13.5	84	0.00
22		trans-1,2-dichloroethene	1.301	1.080	17.0	80	0.00
23	C	1,1-dichloroethane	1.522	1.362	10.5	86	0.00
24	C	MTBE	1.940	1.852	4.5	90	0.00
25	C	vinyl acetate	1.722	1.883	-9.3	106	0.00
26	C	2-butanone	2.484	2.192	11.8	84	0.00
27		cis-1,2-dichloroethene	1.108	1.088	1.8	94	0.00
28		Ethyl Acetate	0.246	0.228	7.3	87	0.00
29	C	chloroform	1.608	1.416	11.9	84	0.00
30		Tetrahydrofuran	1.208	1.073	11.2	83	0.00
31	C	1,2-dichloroethane	1.272	1.044	17.9	79	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00
33	C	hexane	0.657	0.622	5.3	87	0.00
34	s	1,2-dichloroethane-D4	0.441	0.436	1.1	93	0.00
35	C	1,1,1-trichloroethane	0.850	0.748	12.0	82	0.00
36	C	benzene	0.944	0.834	11.7	83	0.00
37	C	carbon tetrachloride	0.790	0.705	10.8	80	0.00
38		cyclohexane	0.594	0.522	12.1	84	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730779.D
Acq On : 29 Mar 2015 10:49 am
Operator : AIRLAB7:MB
Sample : CTO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 12:34:17 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	C	1,2-dichloropropane	0.527	0.490	7.0	85	0.00
40		bromodichloromethane	1.030	0.976	5.2	85	0.00
41	C	1,4-dioxane	0.302	0.288	4.6	84	0.00
42	C	trichloroethene	0.669	0.631	5.7	84	0.00
43	C	2,2,4-trimethylpentane	2.575	2.472	4.0	85	0.00
44		heptane	1.141	1.091	4.4	84	-0.01
45	C	cis-1,3-dichloropropene	0.611	0.653	-6.9	91	0.00
46	C	4-methyl-2-pentanone	1.607	1.551	3.5	83	0.00
47		trans-1,3-dichloropropene	0.592	0.538	9.1	77	0.00
48	C	1,1,2-trichloroethane	0.552	0.533	3.4	87	0.00
49	I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
50	C	toluene	5.167	4.611	10.8	85	0.00
51	s	toluene-D8	3.419	3.545	-3.7	100	0.00
52		2-hexanone	4.605	4.317	6.3	81	0.00
53		dibromochloromethane	3.262	3.069	5.9	84	0.00
54	C	1,2-dibromoethane	2.746	2.482	9.6	85	0.00
55	C	tetrachloroethene	2.617	2.349	10.2	86	0.00
56		1,1,1,2-tetrachloroethane	2.571	2.165	15.8	80	0.00
57	C	chlorobenzene	4.115	3.718	9.6	85	0.00
58	C	ethylbenzene	6.055	5.889	2.7	85	0.00
59	C	m+p-xylene	4.702	4.583	2.5	84	0.00
60	C	bromoform	2.803	2.630	6.2	82	0.00
61	C	styrene	3.323	3.353	-0.9	84	0.00
62	C	1,1,2,2-tetrachloroethane	3.608	3.217	10.8	84	0.00
63	C	o-xylene	4.993	4.916	1.5	84	0.00
64	s	bromofluorobenzene	2.226	2.264	-1.7	96	0.00
65	C	isopropylbenzene	7.535	7.091	5.9	83	0.00
66		4-ethyl toluene	7.101	6.905	2.8	81	0.00
67		1,3,5-trimethylbenzene	6.227	6.171	0.9	83	0.00
68		tert-butylbenzene	7.144	6.769	5.2	79	0.00
69		1,2,4-trimethylbenzene	5.885	6.072	-3.2	84	0.00
70	C	Benzyl Chloride	3.202	3.565	-11.3	93	0.00
71		1,3-dichlorobenzene	3.876	3.757	3.1	85	0.00
72	C	1,4-dichlorobenzene	3.804	3.722	2.2	86	0.00
73		sec-butylbenzene	9.597	9.050	5.7	78	0.00
74		p-isopropyltoluene	8.186	7.505	8.3	74	0.00
75		1,2-dichlorobenzene	3.758	3.735	0.6	86	0.00
76		n-butylbenzene	6.697	6.660	0.6	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730779.D
Acq On : 29 Mar 2015 10:49 am
Operator : AIRLAB7:MB
Sample : CTO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 12:34:17 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 C	1,2,4-trichlorobenzene	3.053	3.080	-0.9	85	0.00
78	naphthalene	6.897	7.253	-5.2	84	0.00
79	1,2,3-trichlorobenzene	3.076	3.046	1.0	84	0.00
80 C	hexachlorobutadiene	4.186	3.900	6.8	79	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
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Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.467	49	181775	10.000	ppbV	0.00
Standard Area = 190468			Recovery = 95.44%			
32) 1,4-difluorobenzene	12.548	114	329268	10.000	ppbV	0.00
Standard Area = 343507			Recovery = 95.85%			
49) chlorobenzene-D5	16.835	54	108809	10.000	ppbV	0.00
Standard Area = 115421			Recovery = 94.27%			
System Monitoring Compounds						
34) 1,2-dichloroethane-D4	11.291	65	143646	9.882	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.82%			
51) toluene-D8	15.182	98	385683	10.367	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.67%			
64) bromofluorobenzene	18.003	95	246381	10.174	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.74%			
Target Compounds						Qvalue
2) propylene	4.735	41	84389M6	4.830	ppbV	
3) dichlorodifluoromethane	4.834	85	102535	3.713	ppbV	100
4) chloromethane	5.051	50	75315	4.235	ppbV	100
5) Freon-114	5.209	85	163367	4.192	ppbV	98
6) vinyl chloride	5.366	62	66279	4.539	ppbV	100
7) 1,3-butadiene	5.554	54	60737	4.923	ppbV	95
8) bromomethane	5.914	94	62207	4.649	ppbV	100
9) chloroethane	6.146	64	30378	4.524	ppbV	99
10) ethanol	6.313	31	314761	20.852	ppbV	98
11) vinyl bromide	6.601	106	63607	4.656	ppbV	100
12) acetone	6.913	43	714813	23.054	ppbV	96
13) trichlorofluoromethane	7.129	101	192169	4.356	ppbV	100
14) isopropyl alcohol	7.249	45	158403	4.890	ppbV	99
15) acrylonitrile	7.497	53	55687	4.361	ppbV	100
16) 1,1-dichloroethene	7.896	61	115326	4.477	ppbV	97
17) methylene chloride	8.048	49	105221M6	4.351	ppbV	
18) 3-chloropropene	8.184	41	127918	4.961	ppbV	97
19) carbon disulfide	8.368	76	171337	4.492	ppbV	97
20) Freon 113	8.368	101	139371	4.518	ppbV	98
21) Halothane	8.901	117	104041	4.323	ppbV	99
22) trans-1,2-dichloroethene	9.133	61	98122	4.150	ppbV	98
23) 1,1-dichloroethane	9.358	63	123779	4.474	ppbV	100
24) MTBE	9.435	73	168328	4.772	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730779.D
Acq On : 29 Mar 2015 10:49 am
Operator : AIRLAB7:MB
Sample : CTO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 12:34:17 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) vinyl acetate	9.531	43	171158	5.467	ppbV		99
26) 2-butanone	9.803	43	199196	4.411	ppbV		99
27) cis-1,2-dichloroethene	10.279	61	98924	4.912	ppbV		97
28) Ethyl Acetate	10.532	61	20701	4.639	ppbV		82
29) chloroform	10.607	83	128728	4.405	ppbV		98
30) Tetrahydrofuran	11.044	42	97565M6	4.442	ppbV		
31) 1,2-dichloroethane	11.402	62	94917	4.106	ppbV		100
33) hexane	10.513	57	102445	4.734	ppbV		95
35) 1,1,1-trichloroethane	11.678	97	123113	4.401	ppbV		99
36) benzene	12.175	78	137224	4.417	ppbV		98
37) carbon tetrachloride	12.330	117	116021	4.463	ppbV		99
38) cyclohexane	12.465	56	85963	4.395	ppbV		97
39) 1,2-dichloropropane	13.055	63	80692	4.654	ppbV		97
40) bromodichloromethane	13.273	83	160750	4.740	ppbV		99
41) 1,4-dioxane	13.325	88	47469	4.770	ppbV		98
42) trichloroethene	13.314	130	103941	4.721	ppbV		98
43) 2,2,4-trimethylpentane	13.345	57	406943	4.799	ppbV		97
44) heptane	13.615	43	179556	4.780	ppbV	#	96
45) cis-1,3-dichloropropene	14.258	75	107476	5.339	ppbV		99
46) 4-methyl-2-pentanone	14.300	43	255375	4.827	ppbV		99
47) trans-1,3-dichloropropene	14.821	75	88543	4.544	ppbV		97
48) 1,1,2-trichloroethane	15.001	97	87686	4.822	ppbV		97
50) toluene	15.281	91	250842	4.462	ppbV		100
52) 2-hexanone	15.516	43	234850	4.687	ppbV	#	93
53) dibromochloromethane	15.688	129	166969	4.704	ppbV		100
54) 1,2-dibromoethane	15.914	107	135018	4.518	ppbV		100
55) tetrachloroethene	16.303	166	127801	4.488	ppbV		98
56) 1,1,1,2-tetrachloroethane	16.854	131	117808	4.211	ppbV		99
57) chlorobenzene	16.872	112	202254	4.518	ppbV		100
58) ethylbenzene	17.161	91	320379	4.863	ppbV		100
59) m+p-xylene	17.301	91	498689	9.747	ppbV		99
60) bromoform	17.379	173	143066	4.691	ppbV		99
61) styrene	17.574	104	182429	5.045	ppbV		99
62) 1,1,2,2-tetrachloroethane	17.656	83	175016	4.459	ppbV		100
63) o-xylene	17.659	91	267470	4.923	ppbV		99
65) isopropylbenzene	18.092	105	385798	4.706	ppbV		100
66) 4-ethyl toluene	18.572	105	375666M4	4.862	ppbV		
67) 1,3,5-trimethylbenzene	18.624	105	335708	4.954	ppbV		99
68) tert-butylbenzene	18.928	119	368276	4.738	ppbV		100
69) 1,2,4-trimethylbenzene	18.928	105	330369	5.159	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730779.D
Acq On : 29 Mar 2015 10:49 am
Operator : AIRLAB7:MB
Sample : CTO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 29 12:34:17 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\R730771.D
Sub List : Default - All compounds listed

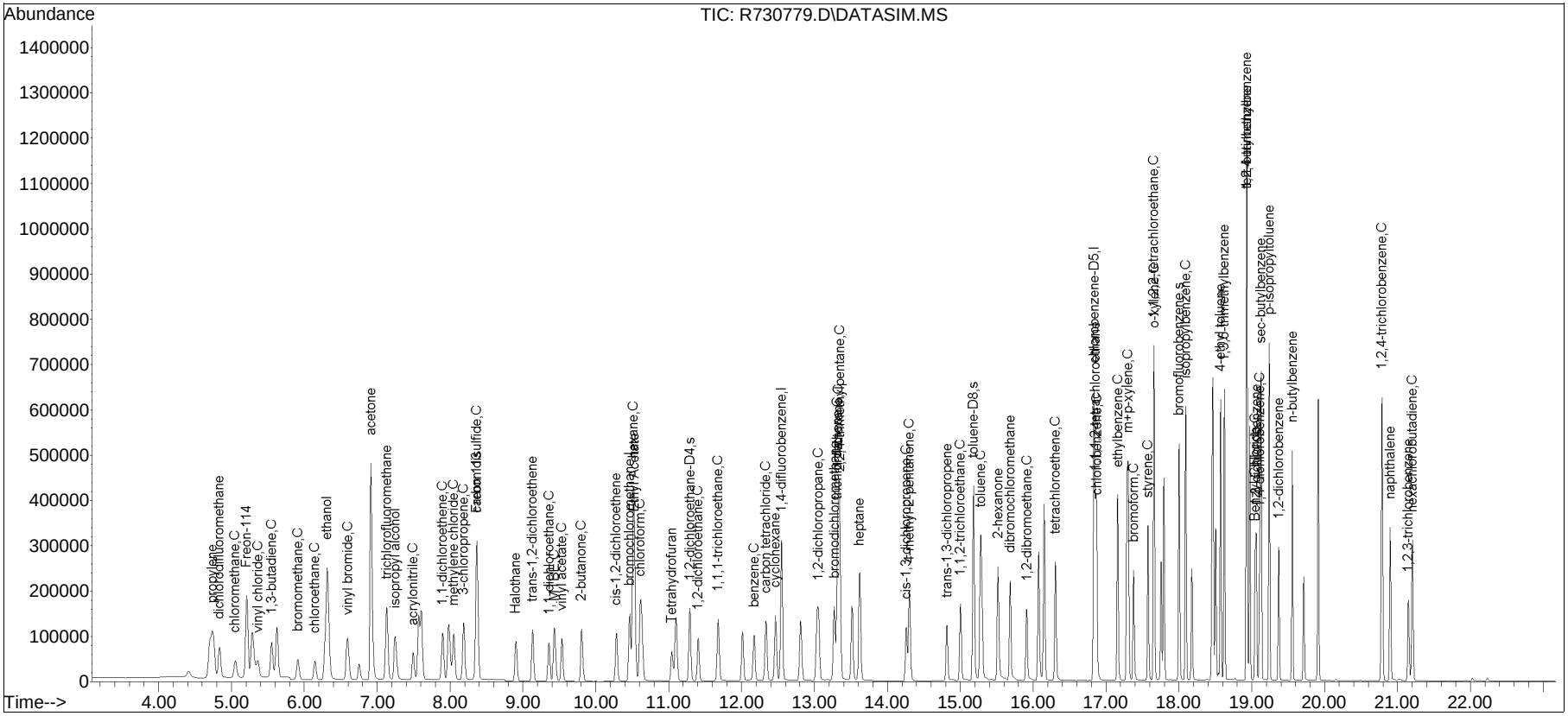
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) Benzyl Chloride	19.046	91	193952	5.567	ppbV	97
71) 1,3-dichlorobenzene	19.061	146	204402	4.847	ppbV	99
72) 1,4-dichlorobenzene	19.108	146	202467	4.891	ppbV	99
73) sec-butylbenzene	19.127	105	492347	4.715	ppbV	99
74) p-isopropyltoluene	19.238	119	408293	4.584	ppbV	99
75) 1,2-dichlorobenzene	19.370	146	203199	4.970	ppbV	99
76) n-butylbenzene	19.555	91	362343	4.972	ppbV	99
77) 1,2,4-trichlorobenzene	20.785	180	167574	5.045	ppbV	100
78) naphthalene	20.896	128	394613	5.258	ppbV	99
79) 1,2,3-trichlorobenzene	21.145	180	165715	4.952	ppbV	100
80) hexachlorobutadiene	21.205	225	212161	4.658	ppbV	98

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

Sub List : Default - All compounds listed\150328SIM_ICAL\R730771.D

Data Path : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\
Data File : R730779.D
Acq On : 29 Mar 2015 10:49 am
Operator : AIRLAB7:MB
Sample : CTO15-SIMSTD5.0
Misc : WG771894
ALS Vial : 2 Sample Multiplier: 1

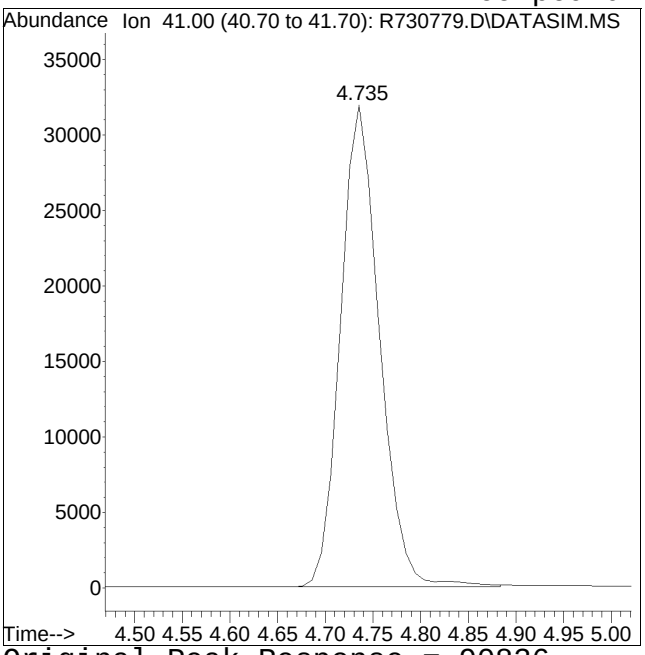
Quant Time: Mar 29 12:34:17 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150328SIM_ICAL\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration



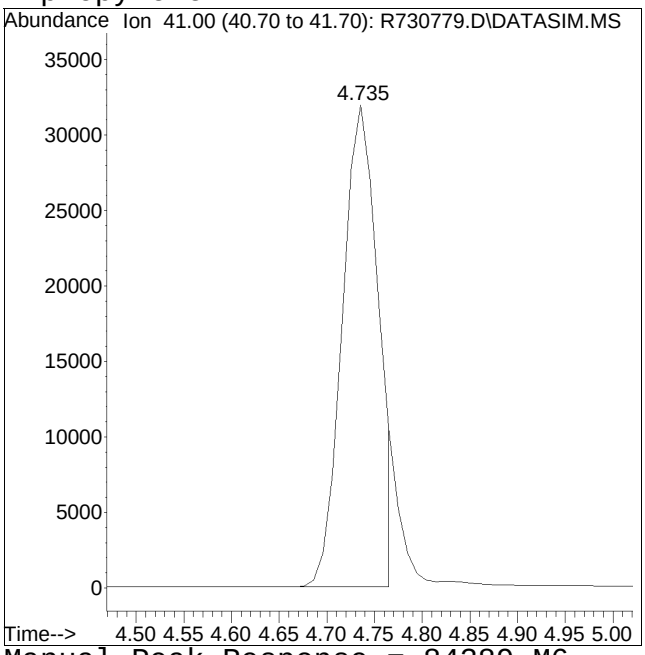
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730779.D Operator : AIRLAB7:MB
Date Inj'd : 3/29/2015 10:49 am Instrument : Airlab 7
Sample : CTO15-SIMSTD5.0 Quant Date : 3/29/2015 12:31 pm

Compound #2: propylene



Original Peak Response = 90836



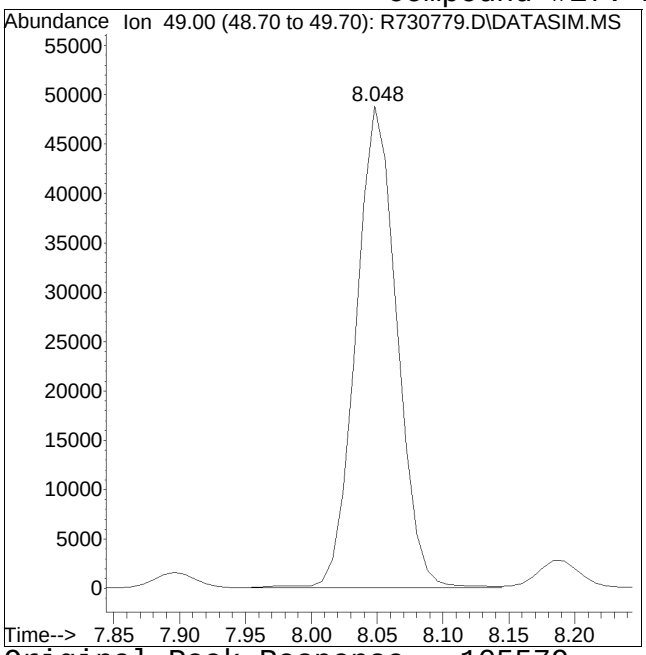
Manual Peak Response = 84389 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

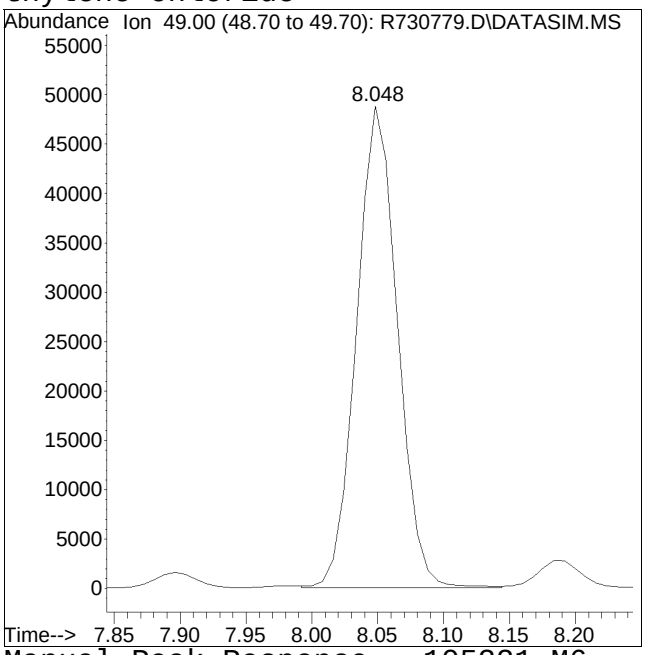
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730779.D Operator : AIRLAB7:MB
Date Inj'd : 3/29/2015 10:49 am Instrument : Airlab 7
Sample : CTO15-SIMSTD5.0 Quant Date : 3/29/2015 12:31 pm

Compound #17: methylene chloride



Original Peak Response = 105579



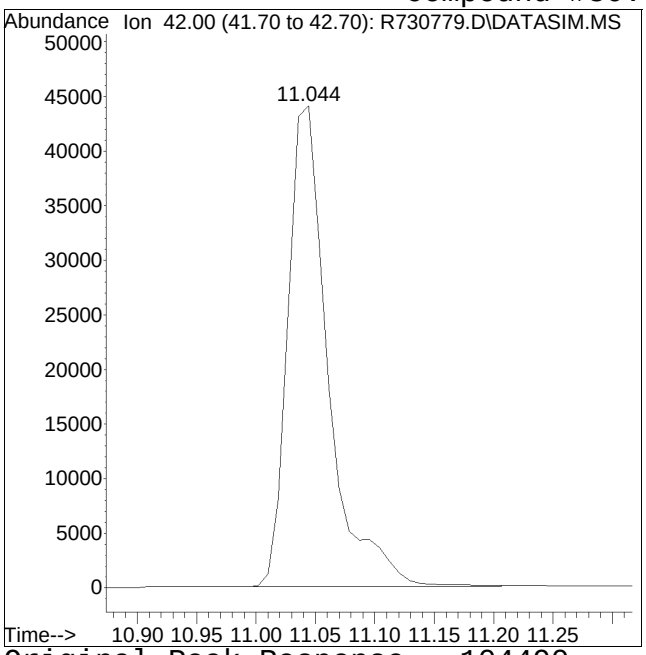
Manual Peak Response = 105221 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

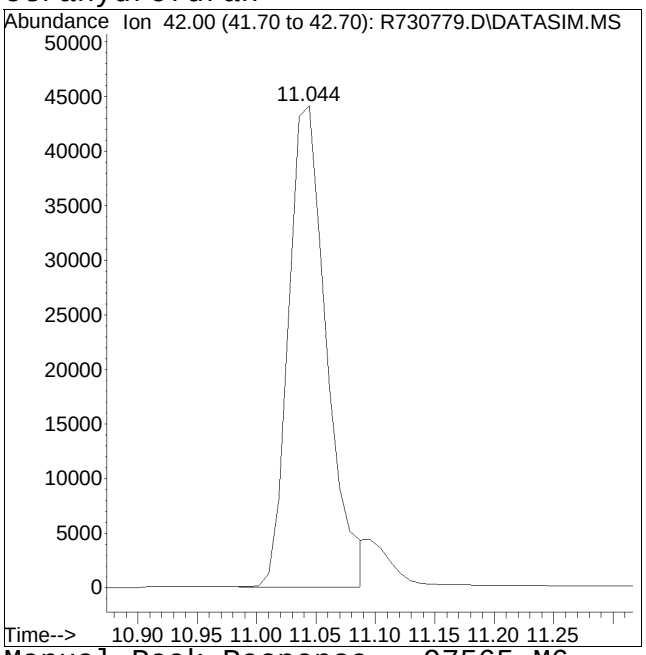
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730779.D Operator : AIRLAB7:MB
Date Inj'd : 3/29/2015 10:49 am Instrument : Airlab 7
Sample : CTO15-SIMSTD5.0 Quant Date : 3/29/2015 12:31 pm

Compound #30: Tetrahydrofuran



Original Peak Response = 104490



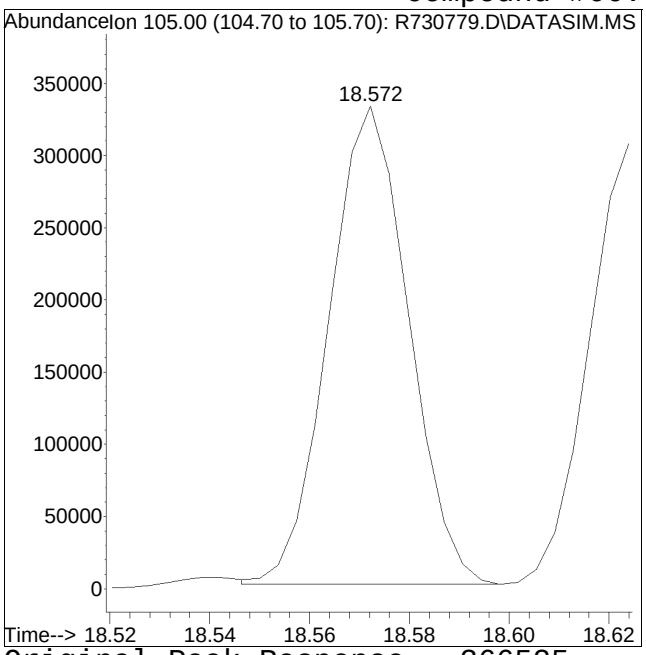
Manual Peak Response = 97565 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

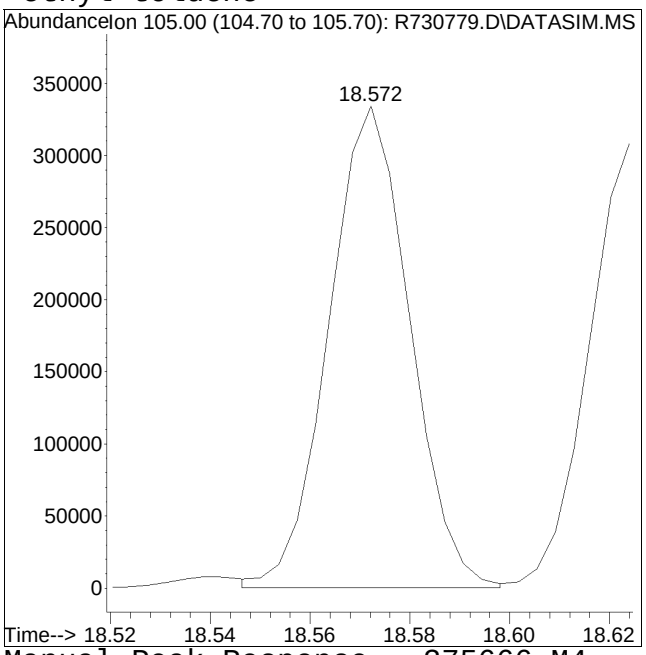
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab7\2QMethod : TSIM150328.M
Data File : R730779.D Operator : AIRLAB7:MB
Date Inj'd : 3/29/2015 10:49 am Instrument : Airlab 7
Sample : CTO15-SIMSTD5.0 Quant Date : 3/29/2015 12:31 pm

Compound #66: 4-ethyl toluene



Original Peak Response = 366525



Manual Peak Response = 375666 M4

M4 = Poor automated baseline construction.

Continuing Calibration

7A

Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1506022

Instrument ID: AIRLAB7 Calibration Date: 04/01/2015 Time: 13:57

Lab File ID: R730853 Init. Calib. Date(s): 03/28/15 03/28/15

Sample No: WG772682-2,3,25 Init. Calib. Times : 14:59 19:52

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	82	0.00
6	C	vinyl chloride	0.803	0.692	13.8	72	0.00
9	C	chloroethane	0.369	0.312	15.4	71	0.00
16	C	1,1-dichloroethene	1.417	1.187	16.2	70	0.00
22		trans-1,2-dichloroethene	1.301	1.019	21.7	65	0.00
23	C	1,1-dichloroethane	1.522	1.295	14.9	71	0.00
27		cis-1,2-dichloroethene	1.108	1.043	5.9	77	0.00
31	C	1,2-dichloroethane	1.272	1.048	17.6	68	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	89	0.00
35	C	1,1,1-trichloroethane	0.850	0.709	16.6	73	0.00
37	C	carbon tetrachloride	0.790	0.676	14.4	71	0.00
42	C	trichloroethene	0.669	0.577	13.8	72	0.00
48	C	1,1,2-trichloroethane	0.552	0.479	13.2	73	0.00
49	I	chlorobenzene-D5	1.000	1.000	0.0	80	0.00
55	C	tetrachloroethene	2.617	2.349	10.2	73	0.00

* Evaluation of CC level amount vs concentration.

FORM VII TO15-SIM

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730853.D
Acq On : 1 Apr 2015 1:57 pm
Operator : AIRLAB7:RY
Sample : WG772682-2,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 14:18:48 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	82	0.00
6	C	vinyl chloride	0.803	0.692	13.8	72	0.00
9	C	chloroethane	0.369	0.312	15.4	71	0.00
16	C	1,1-dichloroethene	1.417	1.187	16.2	70	0.00
22		trans-1,2-dichloroethene	1.301	1.019	21.7	65	0.00
23	C	1,1-dichloroethane	1.522	1.295	14.9	71	0.00
27		cis-1,2-dichloroethene	1.108	1.043	5.9	77	0.00
31	C	1,2-dichloroethane	1.272	1.048	17.6	68	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	89	0.00
35	C	1,1,1-trichloroethane	0.850	0.709	16.6	73	0.00
37	C	carbon tetrachloride	0.790	0.676	14.4	71	0.00
42	C	trichloroethene	0.669	0.577	13.8	72	0.00
48	C	1,1,2-trichloroethane	0.552	0.479	13.2	73	0.00
49	I	chlorobenzene-D5	1.000	1.000	0.0	80	0.00
55	C	tetrachloroethene	2.617	2.349	10.2	73	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730853.D
Acq On : 1 Apr 2015 1:57 pm
Operator : AIRLAB7:RY
Sample : WG772682-2,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 14:18:48 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401SIM\R730853.D
Sub List : AL7-SIM_LIST - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	156083	10.000	ppbV	0.00
Standard Area = 156083			Recovery = 100.00%			
32) 1,4-difluorobenzene	12.55	114	305707	10.000	ppbV	0.00
Standard Area = 305707			Recovery = 100.00%			
49) chlorobenzene-D5	16.84	54	92101	10.000	ppbV	0.00
Standard Area = 92101			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	5.37	62	54039	4.310	ppbV	100
9) chloroethane	6.15	64	24366	4.226	ppbV	99
16) 1,1-dichloroethene	7.90	61	92647	4.189	ppbV	98
22) trans-1,2-dichloroethene	9.13	61	79554	3.919	ppbV	98
23) 1,1-dichloroethane	9.36	63	101032	4.253	ppbV	100
27) cis-1,2-dichloroethene	10.28	61	81394	4.707	ppbV	98
31) 1,2-dichloroethane	11.40	62	81760	4.119	ppbV	99
35) 1,1,1-trichloroethane	11.68	97	108376	4.173	ppbV	99
37) carbon tetrachloride	12.33	117	103347	4.282	ppbV	99
42) trichloroethene	13.31	130	88139	4.312	ppbV	99
48) 1,1,2-trichloroethane	15.00	97	73196	4.336	ppbV	97
55) tetrachloroethene	16.31	166	108178	4.488	ppbV #	89

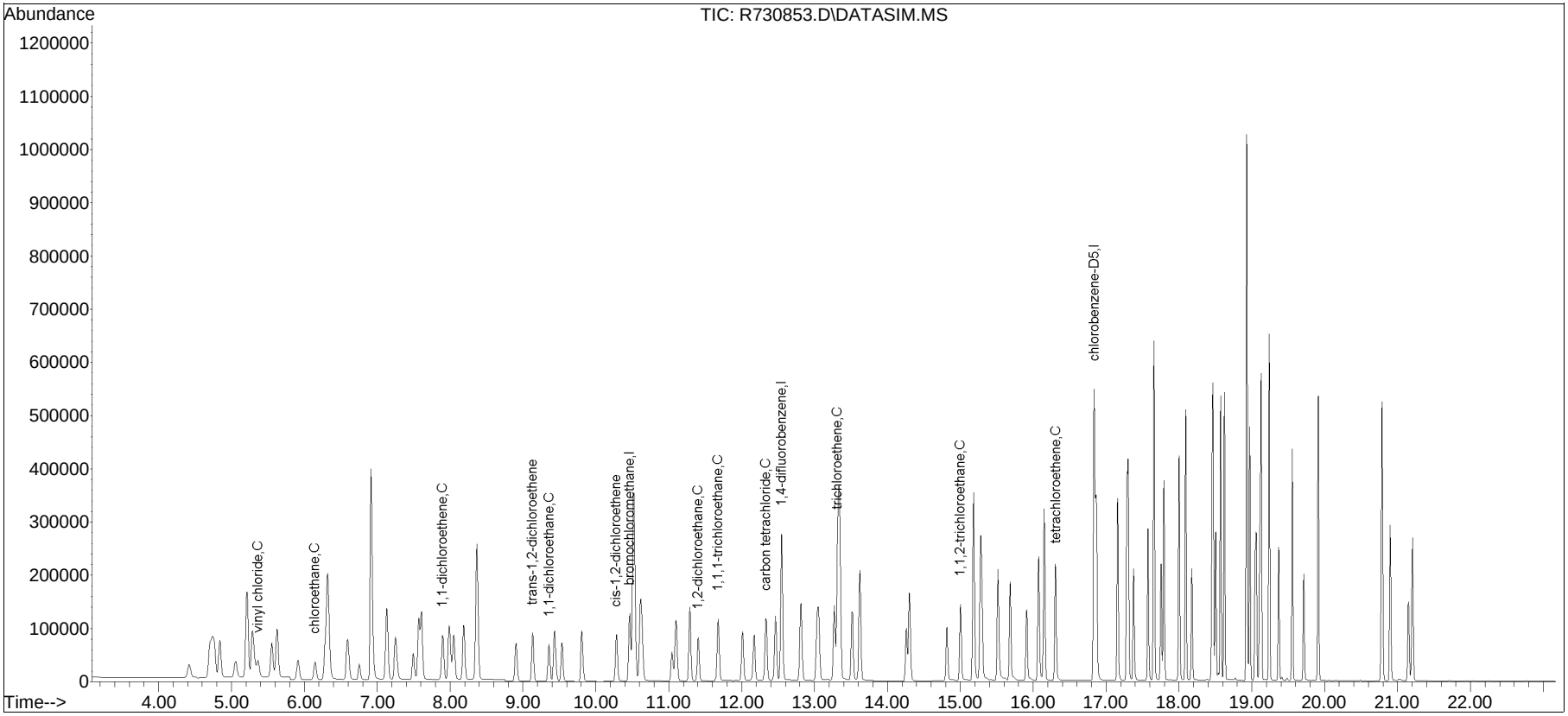
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730853.D
Acq On : 1 Apr 2015 1:57 pm
Operator : AIRLAB7:RY
Sample : WG772682-2,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 14:18:48 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Sub List : AL7-SIM_LIST - .a\Airlab7\2015\150401SIM\R730853.D



Manual Integration/Negative Proof Report

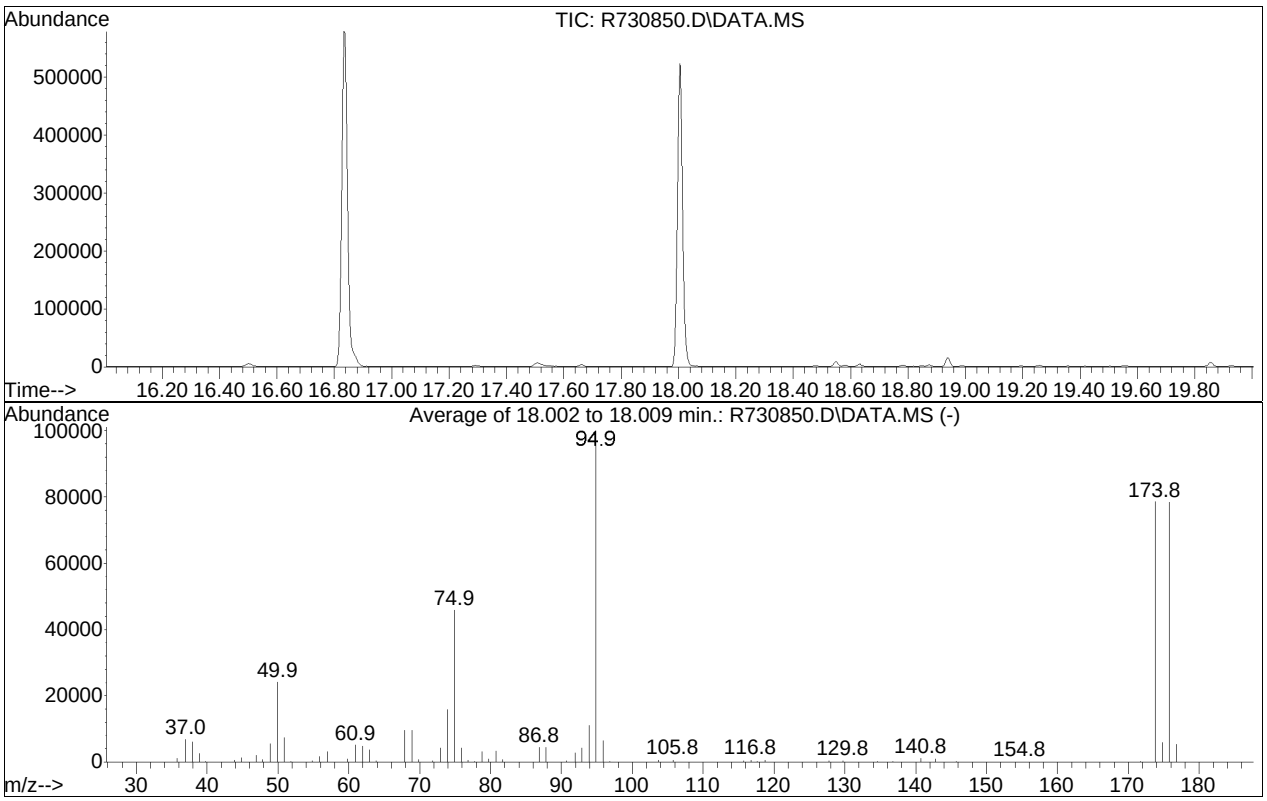
Data Path	: O:\Forensics\Data\Airlab7\2Q	Method	: TSIM150328.M
Data File	: R730853.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 1:57 pm	Instrument	: Airlab 7
Sample	: WG772682-2,3,250,250	Quant Date	: 4/1/2015 2:18 pm

There are no manual integrations or false positives in this file.

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730850.D
Acq On : 1 Apr 2015 11:51 am
Operator : AIRLAB7:RY
Sample : WG772682-1,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Mar 29 12:30:13 2015



AutoFind: Scans 2076, 2077, 2078; Background Corrected with Scan 2067

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.0	24120	PASS
75	95	30	66	47.7	45949	PASS
95	95	100	100	100.0	96368	PASS
96	95	5	9	6.7	6418	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.5	78587	PASS
175	174	4	9	7.7	6013	PASS
176	174	93	101	99.7	78384	PASS
177	176	5	9	6.8	5353	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730855.D
Acq On : 1 Apr 2015 3:25 pm
Operator : AIRLAB7:RY
Sample : WG772682-4,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:47:43 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401SIM\R730853.D
Sub List : AL7-SIM_LIST - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	151335	10.000	ppbV	0.00
Standard Area = 156083			Recovery = 96.96%			
32) 1,4-difluorobenzene	12.56	114	391385	10.000	ppbV	0.01
Standard Area = 305707			Recovery = 128.03%			
49) chlorobenzene-D5	16.84	54	82934	10.000	ppbV	0.00
Standard Area = 92101			Recovery = 90.05%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	5.35		0	N.D.		
9) chloroethane	6.17		0	N.D.		
16) 1,1-dichloroethene	7.91		0	N.D.		
22) trans-1,2-dichloroethene	9.14		0	N.D.		
23) 1,1-dichloroethane	9.36		0	N.D.		
27) cis-1,2-dichloroethene	0.00		0	N.D.	d	
31) 1,2-dichloroethane	11.41		0	N.D.		
35) 1,1,1-trichloroethane	11.68		0	N.D.		
37) carbon tetrachloride	12.34		0	N.D.		
42) trichloroethene	13.32		0	N.D.		
48) 1,1,2-trichloroethane	15.02		0	N.D.		
55) tetrachloroethene	16.31		0	N.D.		

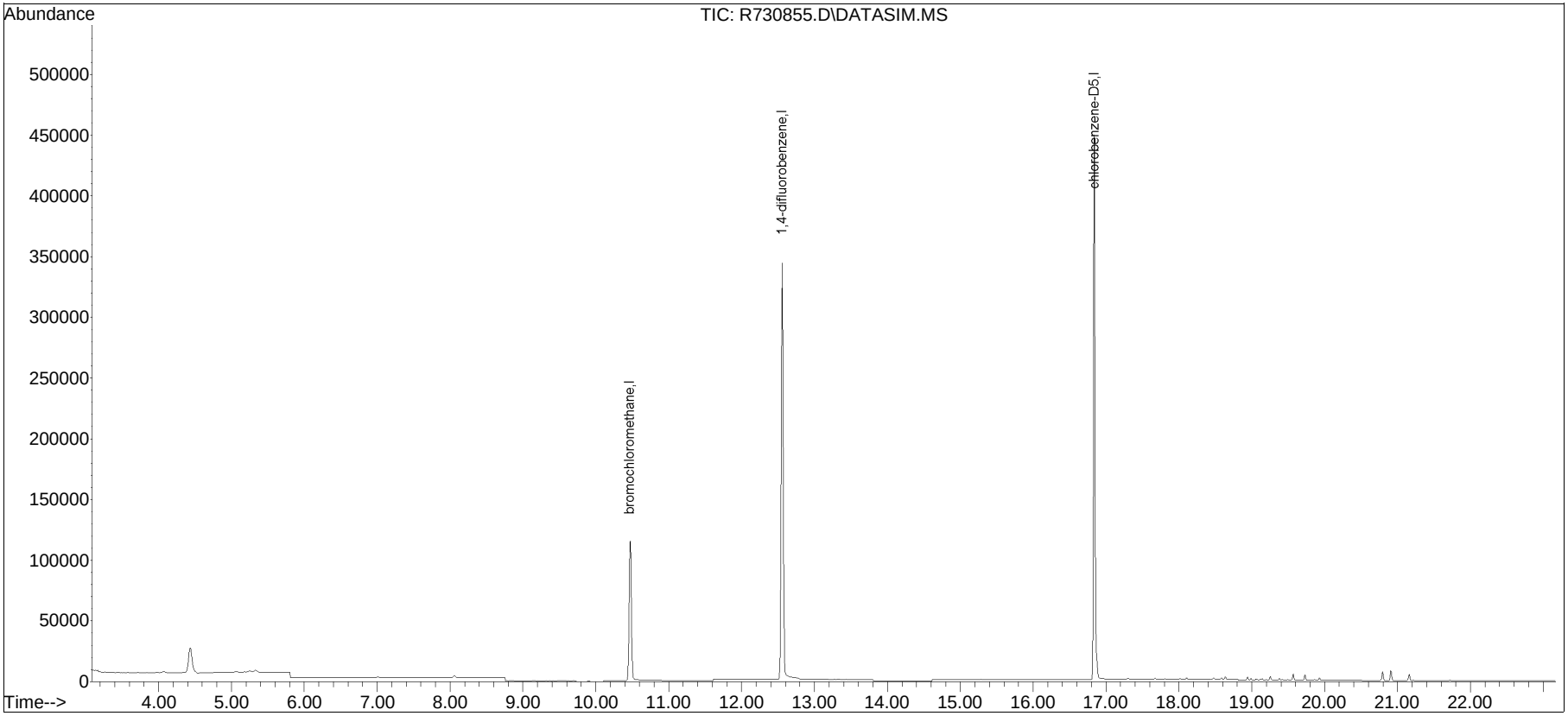
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730855.D
Acq On : 1 Apr 2015 3:25 pm
Operator : AIRLAB7:RY
Sample : WG772682-4,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 01 15:47:43 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Sub List : AL7-SIM_LIST - .a\Airlab7\2015\150401SIM\R730853.D



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2Q	Method	: TSIM150328.M
Data File	: R730855.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 3:25 pm	Instrument	: Airlab 7
Sample	: WG772682-4,3,250,250	Quant Date	: 4/1/2015 3:46 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730853.D
Acq On : 1 Apr 2015 1:57 pm
Operator : AIRLAB7:RY
Sample : WG772682-3,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 14:18:48 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	82	0.00
6	C	vinyl chloride	5.000	4.310	13.8	72	0.00
9	C	chloroethane	5.000	4.226	15.5	71	0.00
16	C	1,1-dichloroethene	5.000	4.189	16.2	70	0.00
22		trans-1,2-dichloroethene	5.000	3.919	21.6	65	0.00
23	C	1,1-dichloroethane	5.000	4.253	14.9	71	0.00
27		cis-1,2-dichloroethene	5.000	4.707	5.9	77	0.00
31	C	1,2-dichloroethane	5.000	4.119	17.6	68	0.00
32	I	1,4-difluorobenzene	10.000	10.000	0.0	89	0.00
35	C	1,1,1-trichloroethane	5.000	4.173	16.5	73	0.00
37	C	carbon tetrachloride	5.000	4.282	14.4	71	0.00
42	C	trichloroethene	5.000	4.312	13.8	72	0.00
48	C	1,1,2-trichloroethane	5.000	4.336	13.3	73	0.00
49	I	chlorobenzene-D5	10.000	10.000	0.0	80	0.00
55	C	tetrachloroethene	5.000	4.488	10.2	73	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730853.D
Acq On : 1 Apr 2015 1:57 pm
Operator : AIRLAB7:RY
Sample : WG772682-3,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 14:18:48 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401SIM\R730853.D
Sub List : AL7-SIM_LIST - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	10.47	49	156083	10.000	ppbV	0.00
Standard Area = 156083			Recovery = 100.00%			
32) 1,4-difluorobenzene	12.55	114	305707	10.000	ppbV	0.00
Standard Area = 305707			Recovery = 100.00%			
49) chlorobenzene-D5	16.84	54	92101	10.000	ppbV	0.00
Standard Area = 92101			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	5.37	62	54039	4.310	ppbV	100
9) chloroethane	6.15	64	24366	4.226	ppbV	99
16) 1,1-dichloroethene	7.90	61	92647	4.189	ppbV	98
22) trans-1,2-dichloroethene	9.13	61	79554	3.919	ppbV	98
23) 1,1-dichloroethane	9.36	63	101032	4.253	ppbV	100
27) cis-1,2-dichloroethene	10.28	61	81394	4.707	ppbV	98
31) 1,2-dichloroethane	11.40	62	81760	4.119	ppbV	99
35) 1,1,1-trichloroethane	11.68	97	108376	4.173	ppbV	99
37) carbon tetrachloride	12.33	117	103347	4.282	ppbV	99
42) trichloroethene	13.31	130	88139	4.312	ppbV	99
48) 1,1,2-trichloroethane	15.00	97	73196	4.336	ppbV	97
55) tetrachloroethene	16.31	166	108178	4.488	ppbV #	89

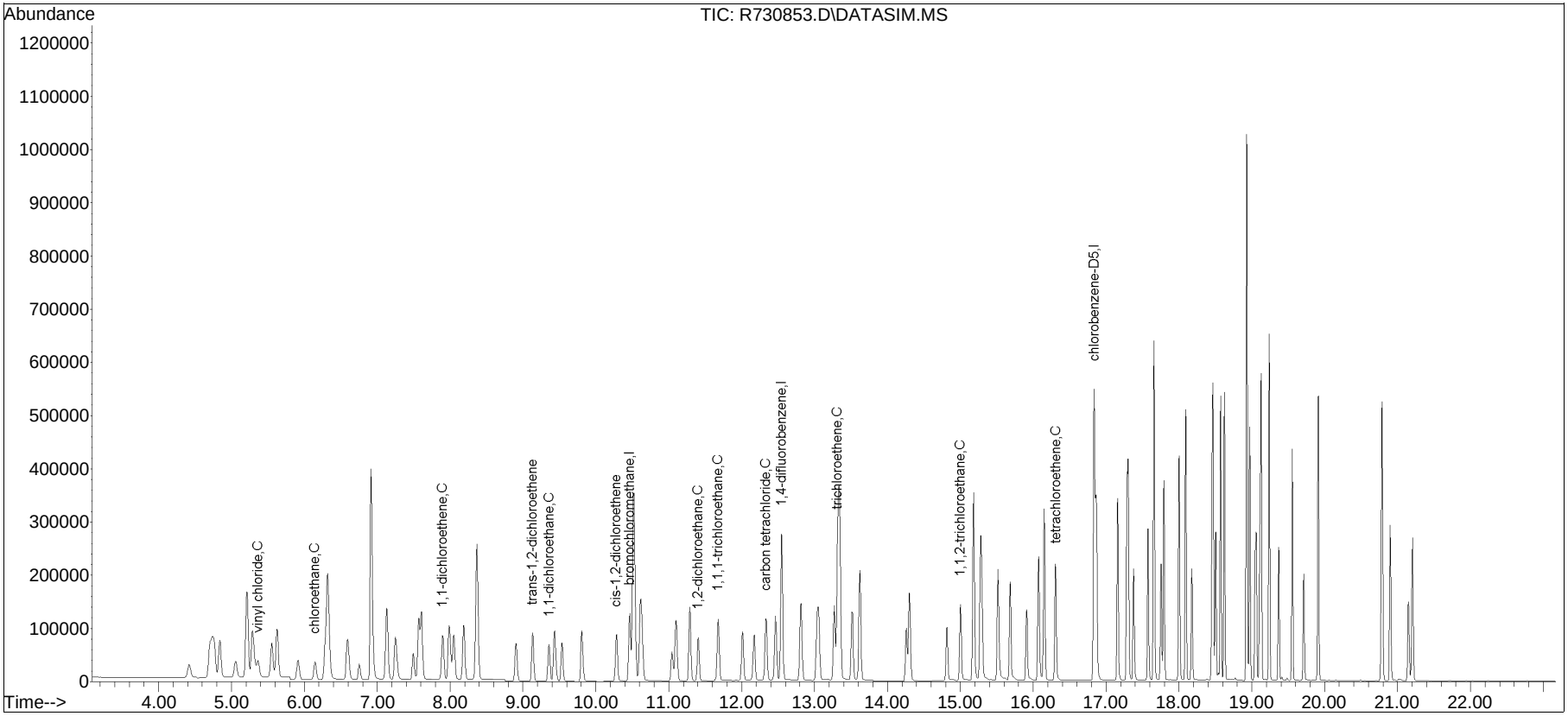
(#) = qualifier out of range (m) = manual integration (+) = signals summed

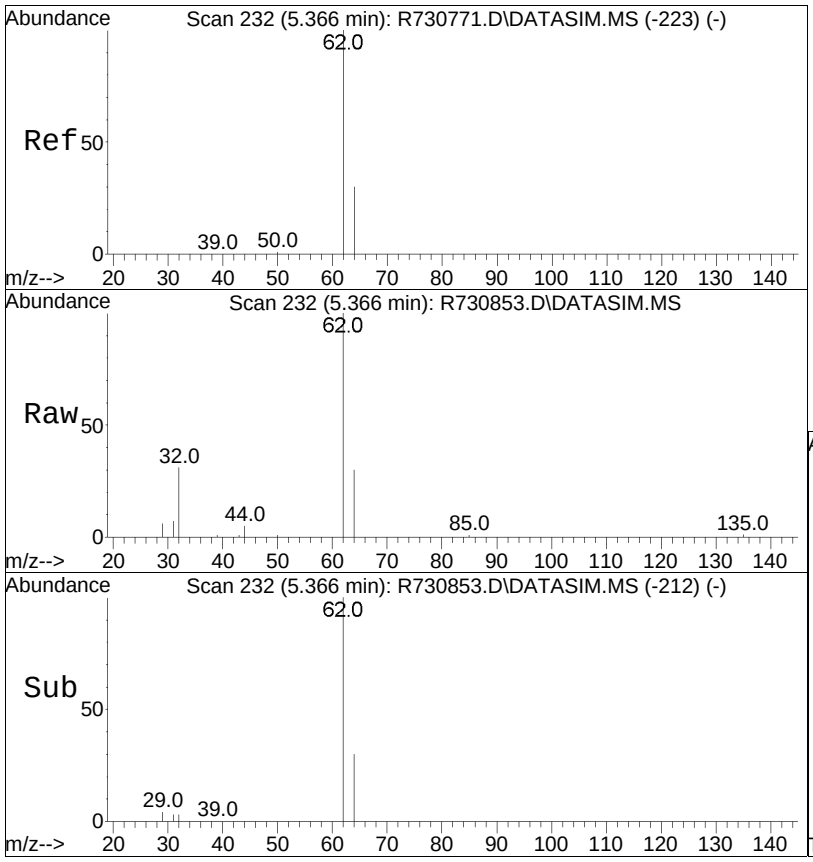
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730853.D
Acq On : 1 Apr 2015 1:57 pm
Operator : AIRLAB7:RY
Sample : WG772682-3,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 01 14:18:48 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Sub List : AL7-SIM_LIST - .a\Airlab7\2015\150401SIM\R730853.D

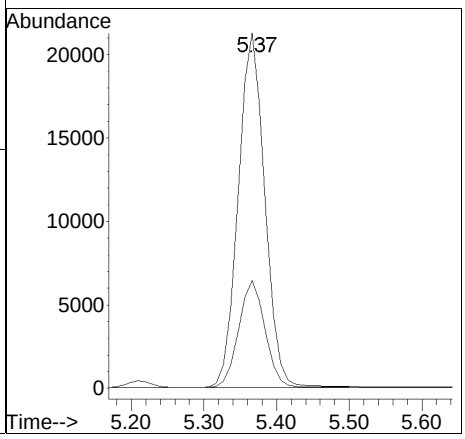


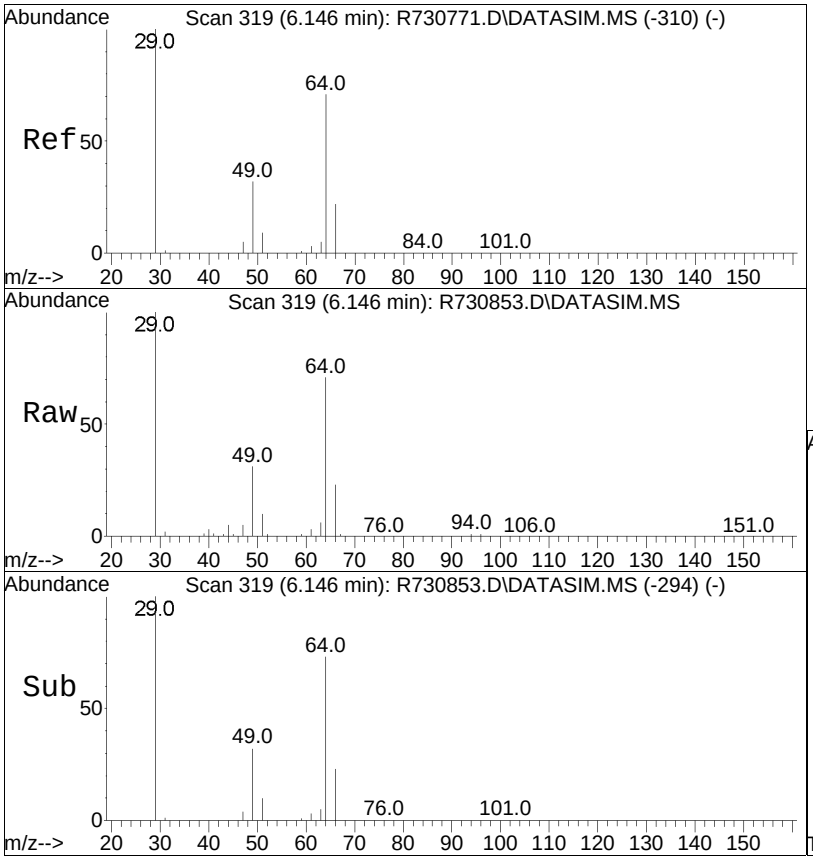


#6
vinyl chloride
Concen: 4.31 ppbV
RT: 5.37 min Scan# 232
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 62 Resp: 54039

Ion	Ratio	Lower	Upper
62	100		
64	30.3	24.3	36.5

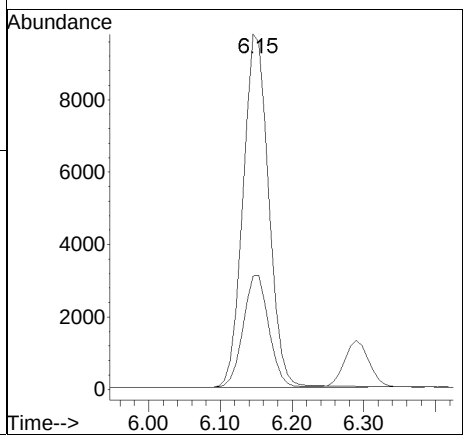


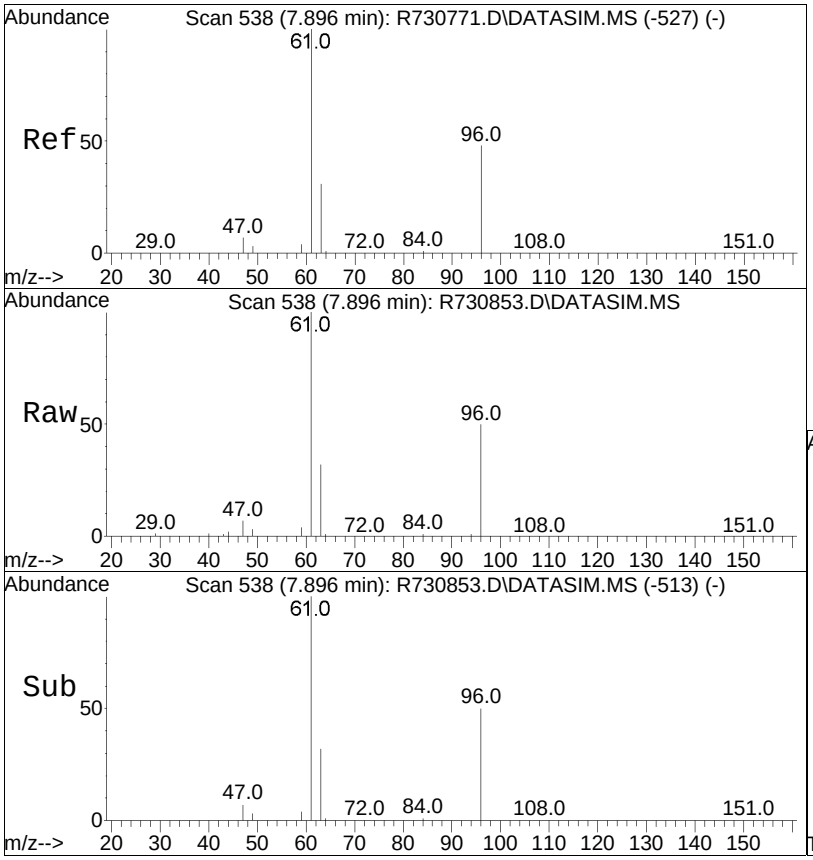


#9
chloroethane
Concen: 4.23 ppbV
RT: 6.15 min Scan# 319
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 64 Resp: 24366

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.1	37.7

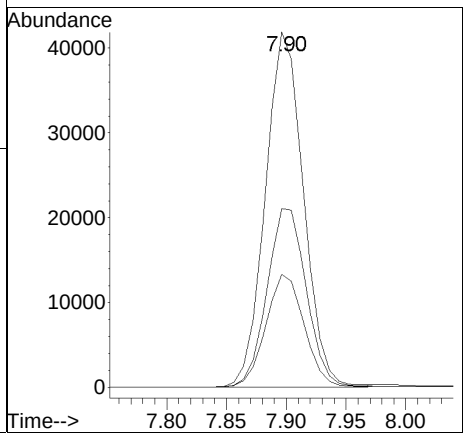


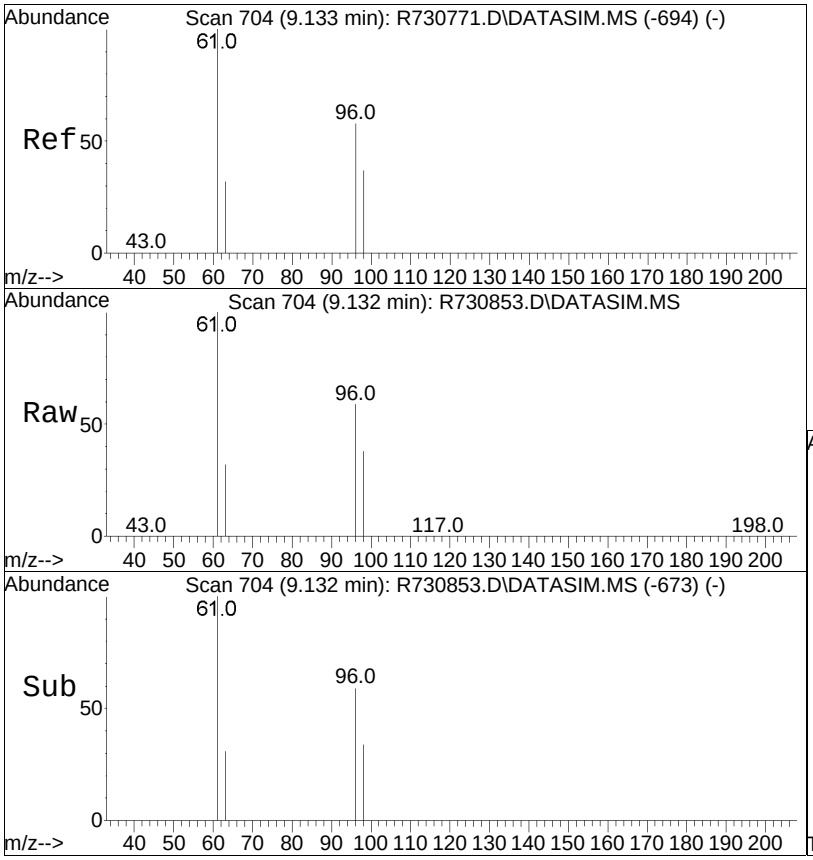


#16
1,1-dichloroethene
Concen: 4.19 ppbV
RT: 7.90 min Scan# 538
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 61 Resp: 92647

Ion	Ratio	Lower	Upper
61	100		
96	50.3	38.8	58.2
63	31.8	25.2	37.8

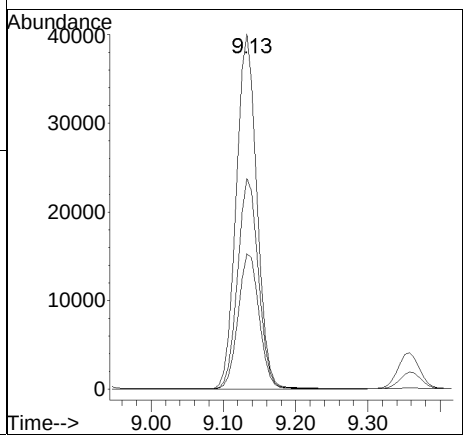


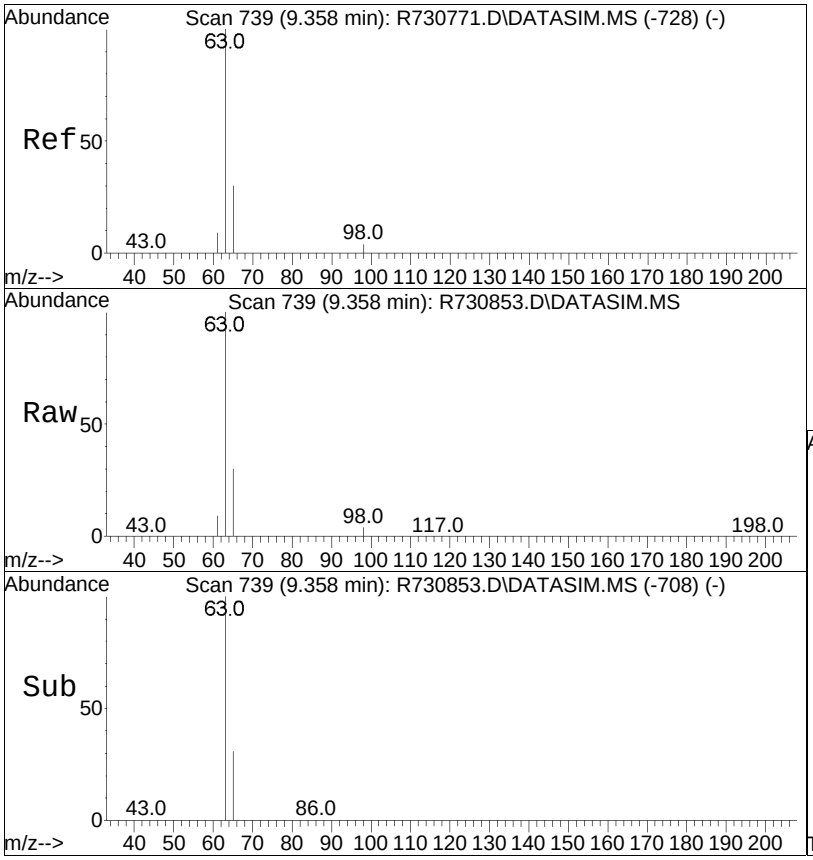


#22
trans-1,2-dichloroethene
Concen: 3.92 ppbV
RT: 9.13 min Scan# 704
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 61 Resp: 79554

Ion	Ratio	Lower	Upper
61	100		
96	59.4	46.6	69.8
98	38.2	29.9	44.9

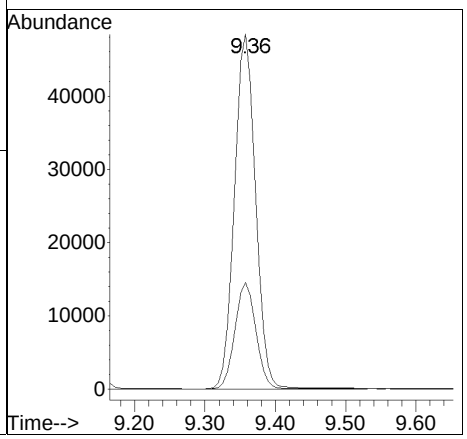


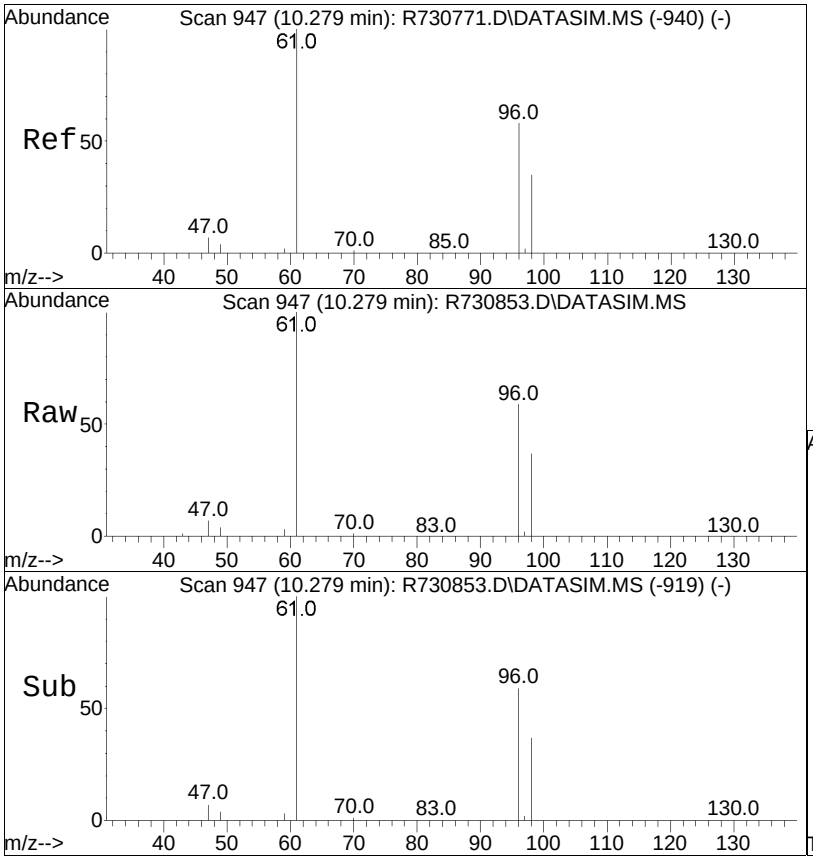


#23
1,1-dichloroethane
Concen: 4.25 ppbV
RT: 9.36 min Scan# 739
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 63 Resp: 101032

Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.1	36.1

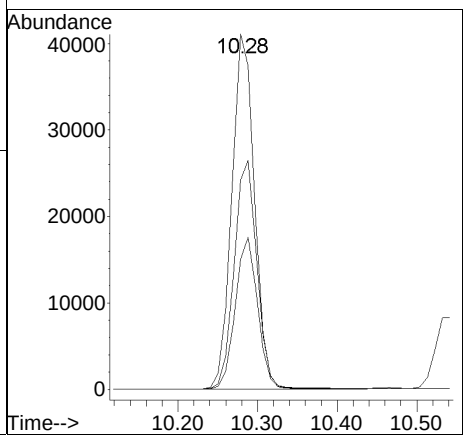


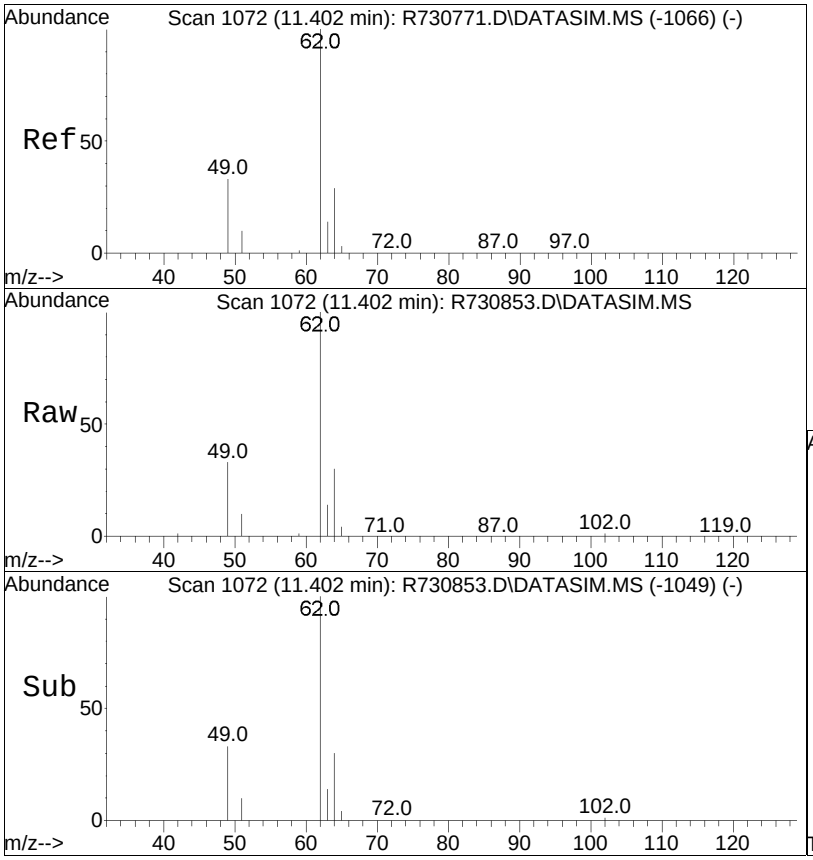


#27
cis-1,2-dichloroethene
Concen: 4.71 ppbV
RT: 10.28 min Scan# 947
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 61 Resp: 81394

Ion	Ratio	Lower	Upper
61	100		
96	58.9	46.2	69.4
98	36.6	28.5	42.7

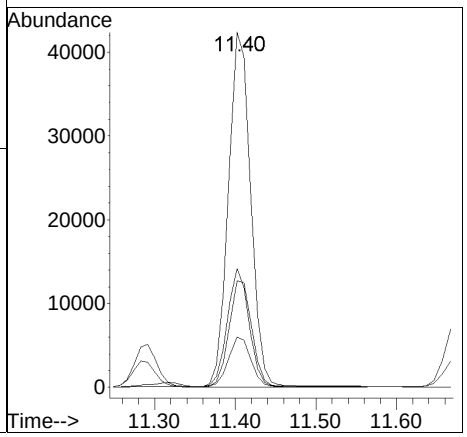


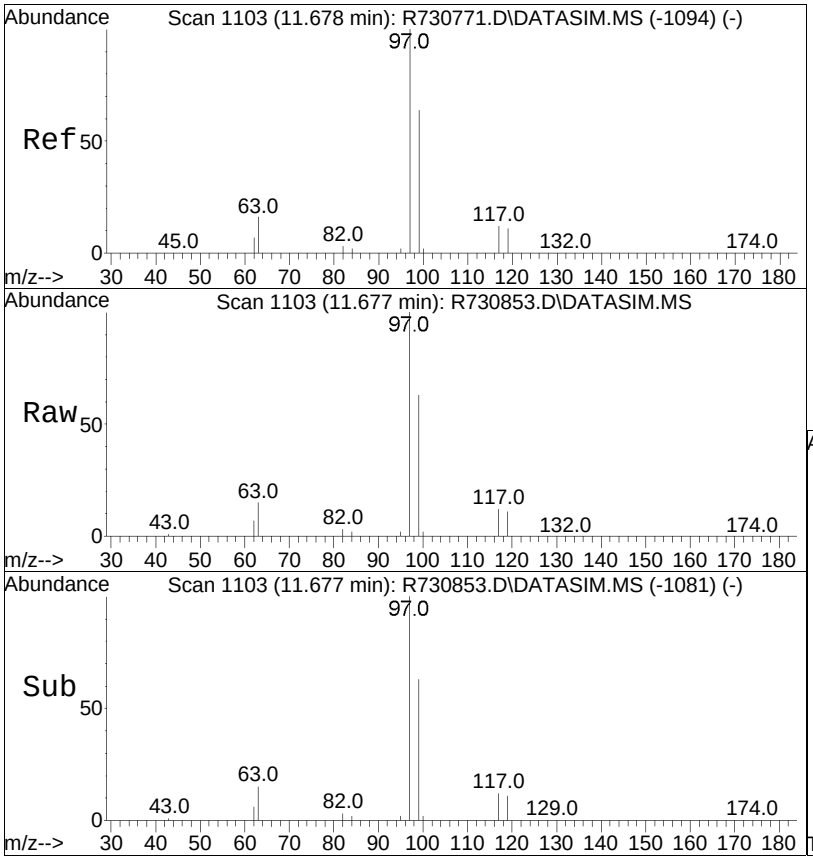


#31
1,2-dichloroethane
Concen: 4.12 ppbV
RT: 11.40 min Scan# 1072
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 62 Resp: 81760

Ion	Ratio	Lower	Upper
62	100		
64	30.0	23.7	35.5
49	33.5	26.6	39.8
63	14.1	11.0	16.6

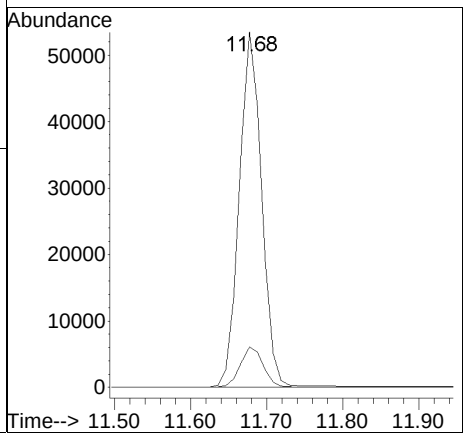


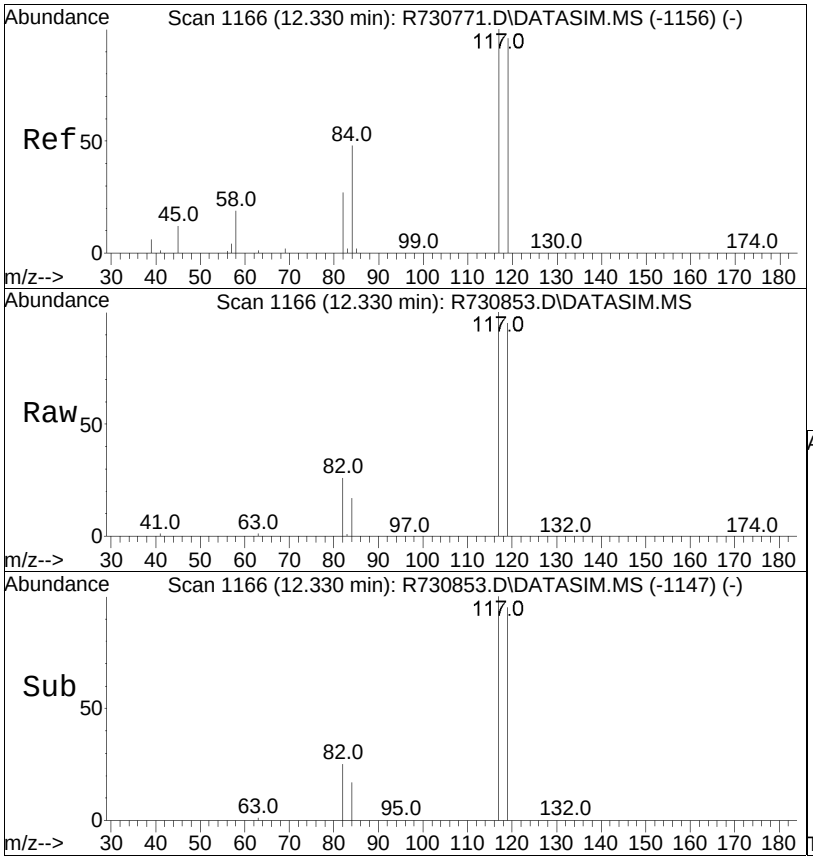


#35
1,1,1-trichloroethane
Concen: 4.17 ppbV
RT: 11.68 min Scan# 1103
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 97 Resp: 108376

Ion	Ratio	Lower	Upper
97	100		
61	0.0	0.0	0.0
119	11.4	9.0	13.4

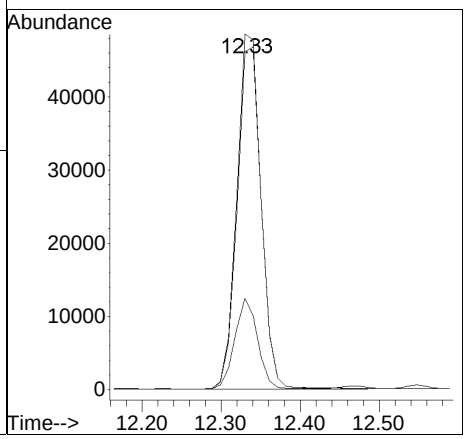


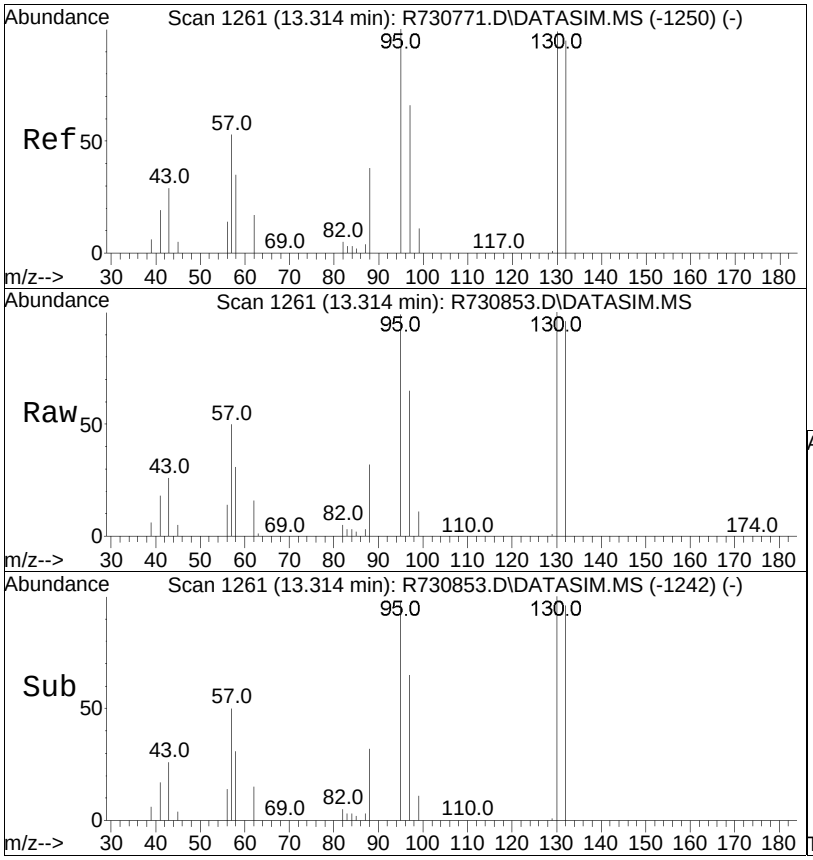


#37
carbon tetrachloride
Concen: 4.28 ppbV
RT: 12.33 min Scan# 1166
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion:117 Resp: 103347

Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.6	115.0
82	25.6	21.3	31.9

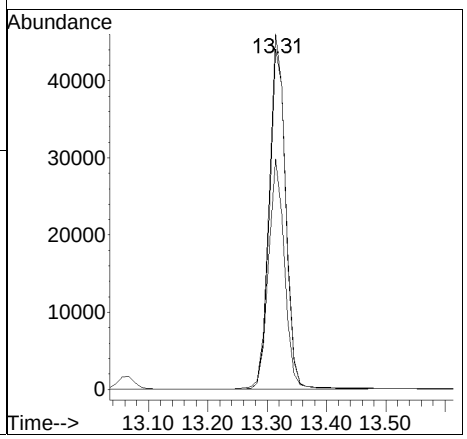


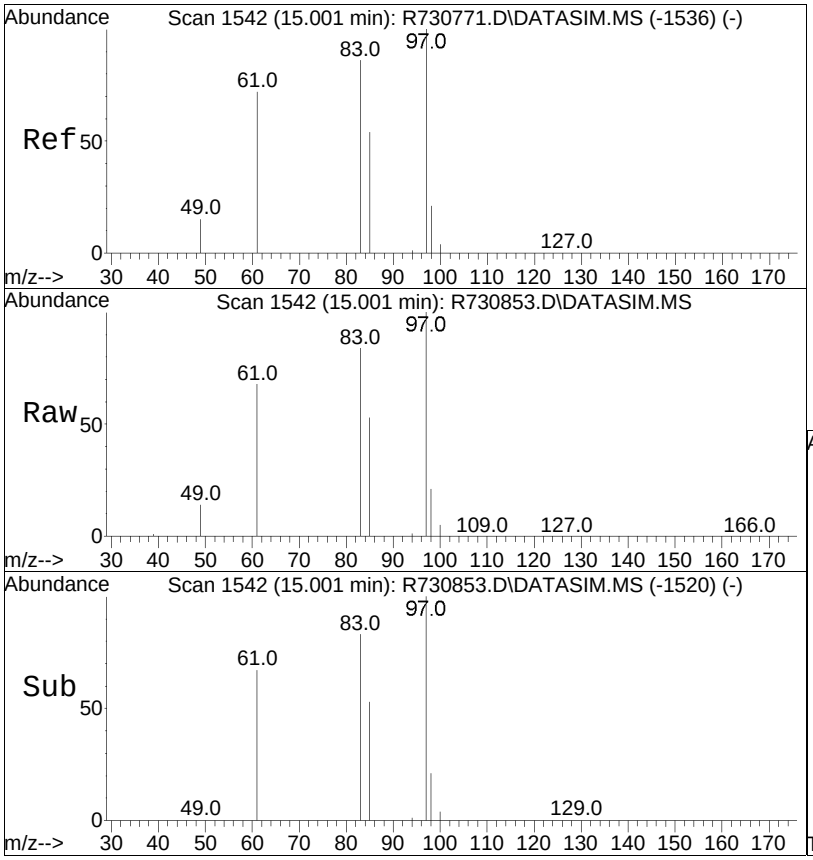


#42
trichloroethene
Concen: 4.31 ppbV
RT: 13.31 min Scan# 1261
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion:130 Resp: 88139

Ion	Ratio	Lower	Upper
130	100		
132	95.8	76.7	115.1
97	64.8	53.2	79.8

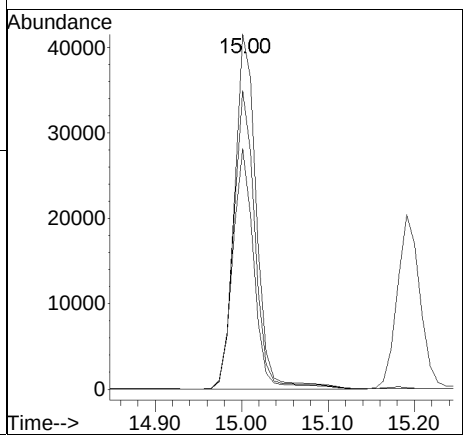


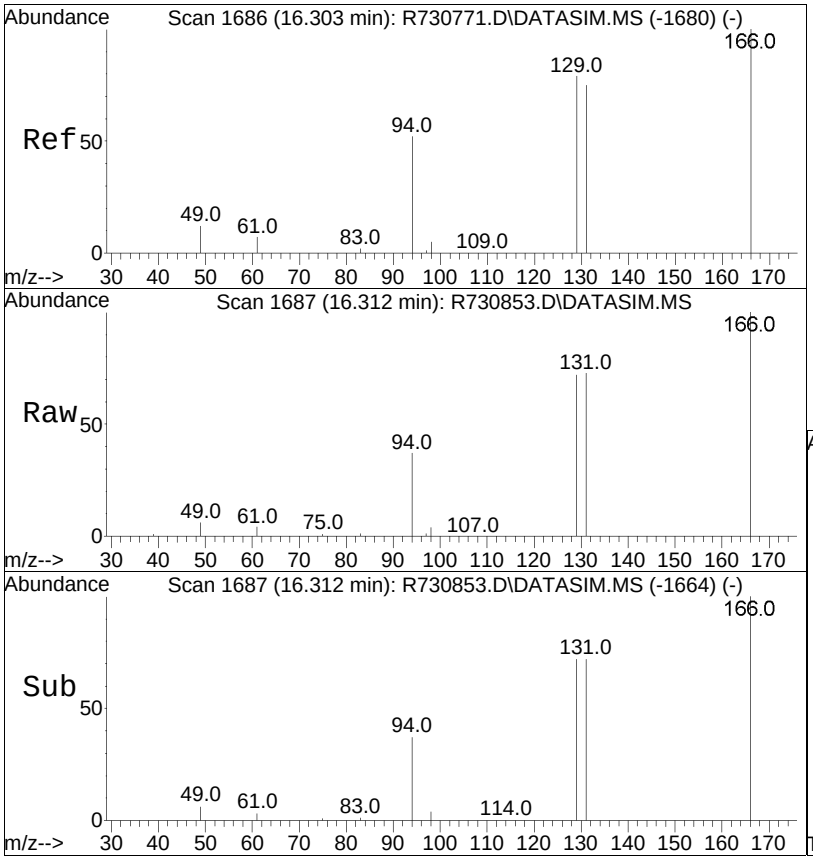


#48
1,1,2-trichloroethane
Concen: 4.34 ppbV
RT: 15.00 min Scan# 1542
Delta R.T. -0.000 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion: 97 Resp: 73196

Ion	Ratio	Lower	Upper
97	100		
83	84.0	68.7	103.1
61	67.8	57.3	85.9

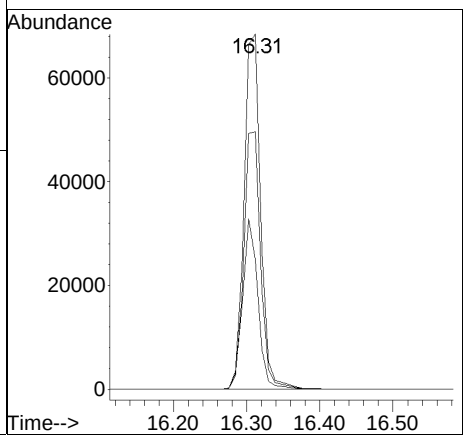




#55
tetrachloroethene
Concen: 4.49 ppbV
RT: 16.31 min Scan# 1687
Delta R.T. 0.009 min
Lab File: R730853.D
Acq: 1 Apr 2015 1:57 pm

Tgt Ion:166 Resp: 108178

Ion	Ratio	Lower	Upper
166	100		
131	72.5	60.1	90.1
94	36.6	41.7	62.5#



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TSIM150328.M
Data File	: R730853.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 1:57 pm	Instrument	: Airlab 7
Sample	: WG772682-3,3,250,250	Quant Date	: 4/1/2015 2:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730863.D
Acq On : 1 Apr 2015 8:45 pm
Operator : AIRLAB7:RY
Sample : WG772682-5,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 09:38:07 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab7\2015\150401SIM\R730853.D
Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	10.47	49	138378	10.000	ppbV		0.00
Standard Area = 156083			Recovery = 88.66%				
32) 1,4-difluorobenzene	12.56	114	255346	10.000	ppbV	#	0.01
Standard Area = 305707			Recovery = 83.53%				
49) chlorobenzene-D5	16.84	54	71458	10.000	ppbV		0.00
Standard Area = 92101			Recovery = 77.59%				
System Monitoring Compounds							
Target Compounds							Qvalue
6) vinyl chloride	5.36		0	N.D.			
16) 1,1-dichloroethene	7.90		0	N.D.			
27) cis-1,2-dichloroethene	0.00		0	N.D.	d		
35) 1,1,1-trichloroethane	11.69		0	N.D.			
37) carbon tetrachloride	12.34	117	1425	0.071	ppbV		97
42) trichloroethene	13.32	130	769	0.045	ppbV		97
55) tetrachloroethene	16.31	166	308	0.016	ppbV		95

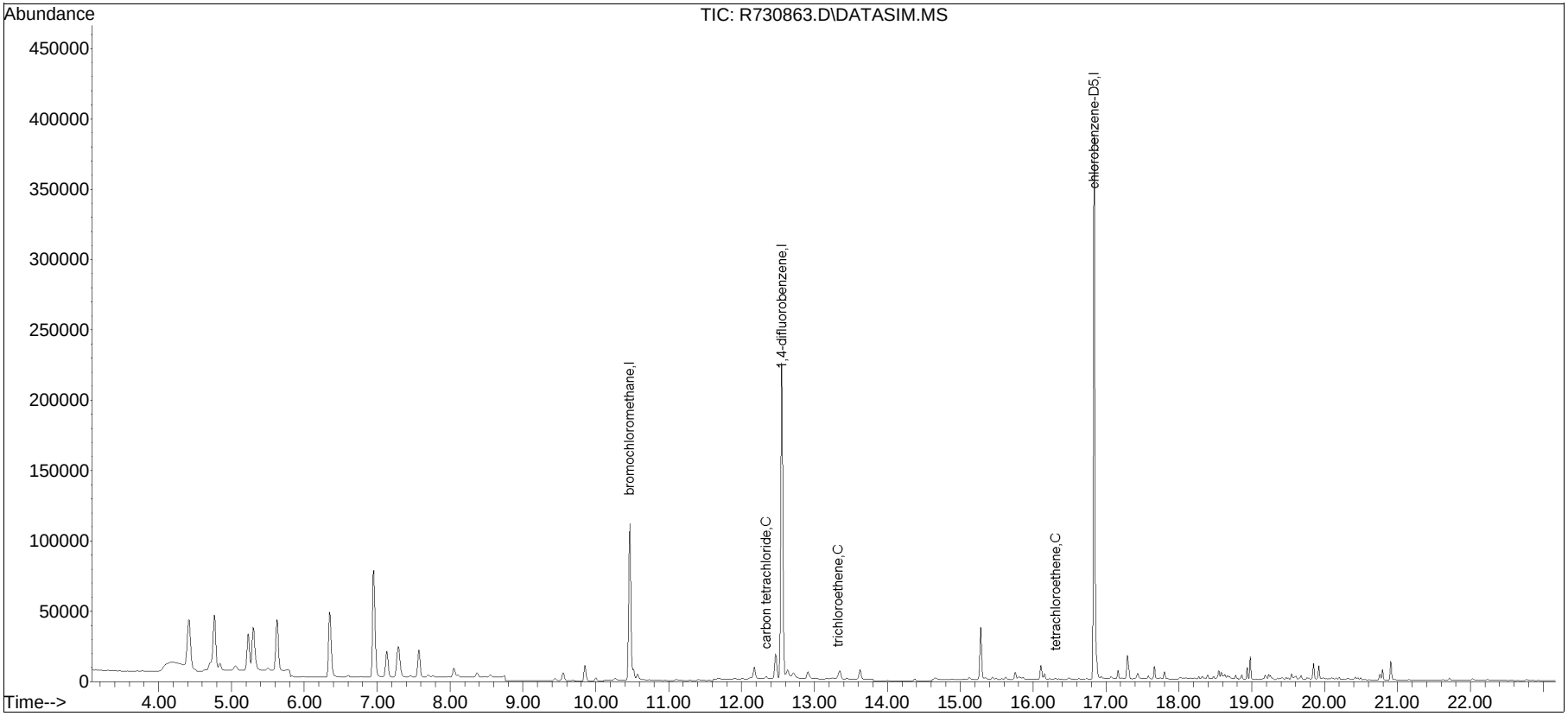
(#) = qualifier out of range (m) = manual integration (+) = signals summed

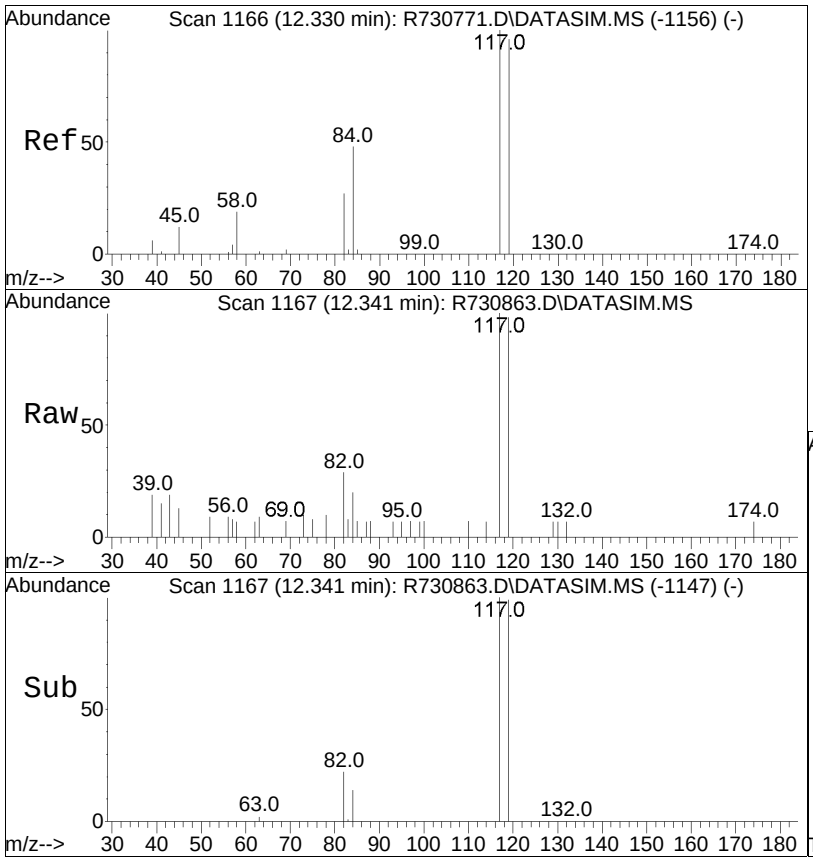
Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab7\2015\150401SIM\
Data File : R730863.D
Acq On : 1 Apr 2015 8:45 pm
Operator : AIRLAB7:RY
Sample : WG772682-5,3,250,250
Misc : WG772682,ICAL10835
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 09:38:07 2015
Quant Method : O:\Forensics\Data\Airlab7\2015\150401SIM\TSIM150328.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 29 12:30:13 2015
Response via : Initial Calibration

Sub List : 7-NY-SIM - .\Data\Airlab7\2015\150401SIM\R730853.D

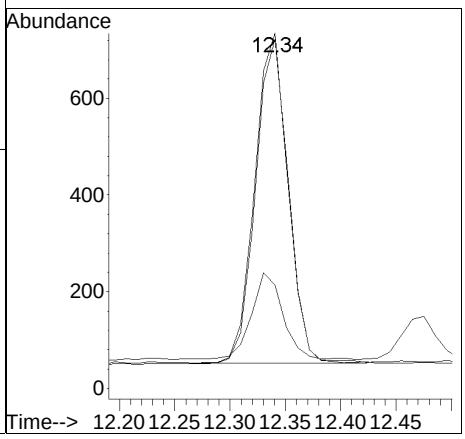


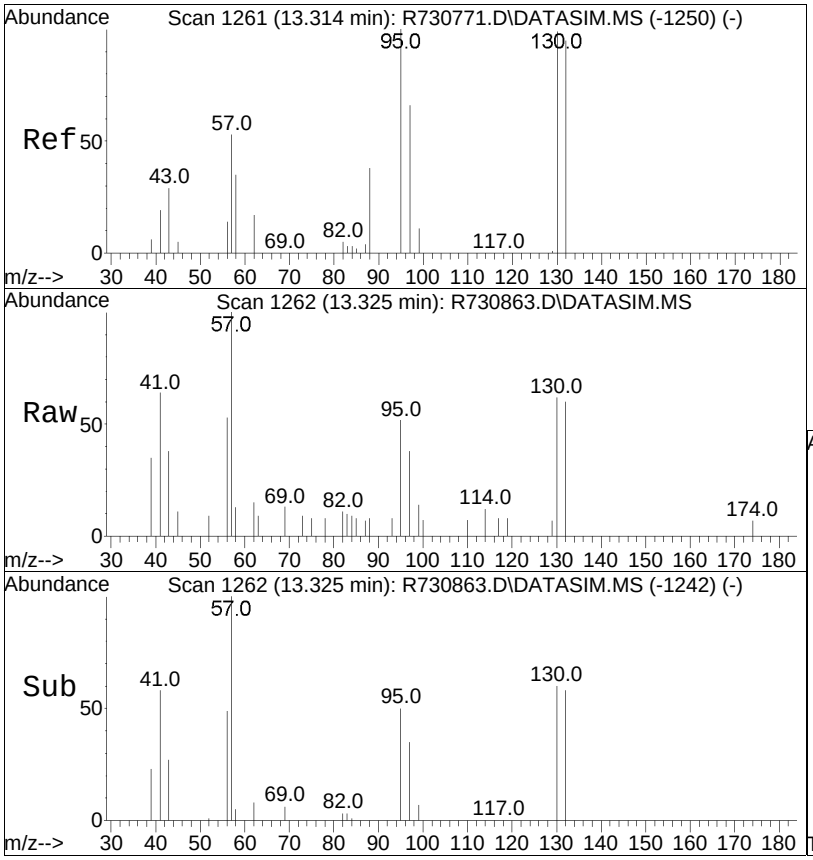


#37
carbon tetrachloride
Concen: 0.07 ppbV
RT: 12.34 min Scan# 1167
Delta R.T. 0.010 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion:117 Resp: 1425

Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.6	115.0
82	29.1	21.3	31.9

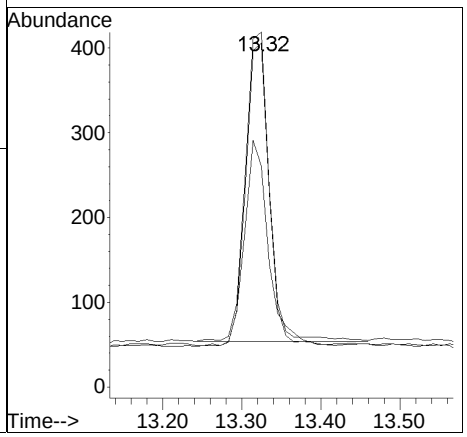


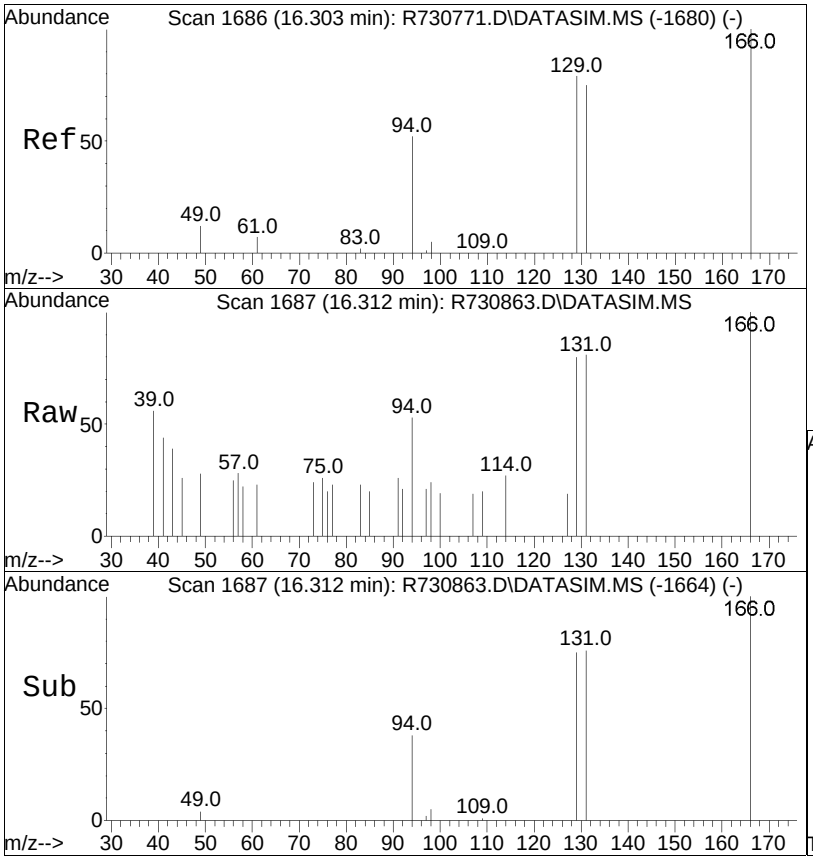


#42
trichloroethene
Concen: 0.05 ppbV
RT: 13.32 min Scan# 1262
Delta R.T. 0.010 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion:130 Resp: 769

Ion	Ratio	Lower	Upper
130	100		
132	96.9	76.7	115.1
97	62.3	53.2	79.8

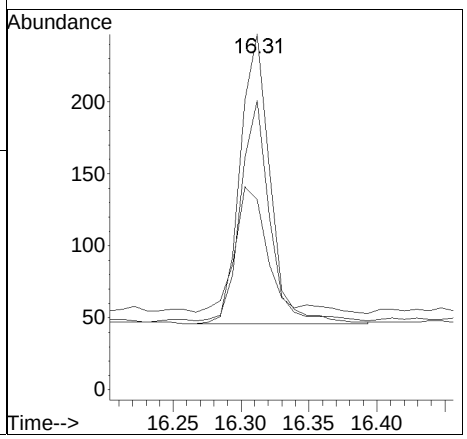




#55
tetrachloroethene
Concen: 0.02 ppbV
RT: 16.31 min Scan# 1687
Delta R.T. 0.009 min
Lab File: R730863.D
Acq: 1 Apr 2015 8:45 pm

Tgt Ion:166 Resp: 308

Ion	Ratio	Lower	Upper
166	100		
131	81.4	60.1	90.1
94	53.4	41.7	62.5



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab7\2	QMethod	: TSIM150328.M
Data File	: R730863.D	Operator	: AIRLAB7:RY
Date Inj'd	: 4/1/2015 8:45 pm	Instrument	: Airlab 7
Sample	: WG772682-5,3,250,250	Quant Date	: 4/2/2015 6:38 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, ppbv = C_s x DF
Where:
C_s = Concentration of sample (ppbv)
DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor
$DF = V_{cf} / V_{ci}$
Where:
V_{ci} = volume of air in canister prior to pressurization, L
P =

Conversion of ppbv to ug/m^3
ug/m^3 = (ppbv) * MW / 24.47
Where:
24.47 = molar gas constant (g/g-mole)
MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$V_{ci} = 2.7 * Pl/14.696$

Step 2: Calculate the volume in the canister after pressurization.

$V_{cf} = 2.7 * PF/14.696$

Step 3: Calculate the dilution factor.

$DF = V_{cf} / V_{ci}$

Where:

V_{ci} = volume of air in canister prior to pressurization, L
PI = pressure reading of canister prior to pressurization (psia)
V_{cf} = volume of air in canister after pressurization, L
PF = pressure reading of canister after pressurization (psia)
DF = dilution factor
14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Apr 02 2015, 08:18 pm

Work Group: WG772682 for Department: 3 GC/MS

Created: 01-APR-15 Due: Operator: ry

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1506022-06	VS-YOGURT IA	S	TO15-SIM	AIR	DONE	U	0424	0402	S0	Can-6
L1506022-08	VS-WINE STORE IA	S	TO15-SIM	AIR	DONE	U	0424	0402	S0	Can-6
L1506078-02	IA01-032615	S	TO15-SIM	AIR	DONE	U	0425	0402	S0	Can-2.7
L1506078-03	AA01-032615	S	TO15-SIM	AIR	DONE	U	0425	0402	S0	Can-2.7
WG772682-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG772682-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG772682-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG772682-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG772682-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				

Comments:

WG772682-5 L1506078-02

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab7

Internal Standard/Surrogate IDs: CSS13-004 / CSS12-019

Date: 03/28/15

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: MB

Sequence File Name: 150328.S

SIM ICAL# Full Scan ICAL# APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Leak Check Pass ? Y/N
1	BA7032801	TO15_SFS	R730761	250 mL			NA
1	BA7032801	TO15_SFS	R730762	250 mL			NA
1	BA7032801	TO15_SFS	R730763	250 mL			NA
1	TA7032801	TO15_SFS	R730764	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS	R730765	SS15-009D 50ML 0.02	SIM ONLY		NA
5	ITO15-SIMSTD0.04	TO15_SFS	R730766	SS15-009D 100ML 0.04	SIM ONLY		NA
5	ITO15-SIMSTD0.1	TO15_SFS	R730767	SS15-009D 250ML 0.1	SIM ONLY		NA
6	ITO15-SIMSTD0.2	TO15_SFS	R730768	SS15-009C 50ML 0.2			NA
6	ITO15-SIMSTD0.5	TO15_SFS	R730769	SS15-009C 125ML 0.5			NA
6	ITO15-SIMSTD1.0	TO15_SFS	R730770	SS15-009C 250ML 1.0			NA
7	ITO15-SIMSTD5.0	TO15_SFS	R730771	SS15-009B1 125ML 5.0			NA
7	ITO15-SIMSTD10.0	TO15_SFS	R730772	SS15-009B1 250ML 10.0			NA
8	ITO15-SIMSTD20.0	TO15_SFS	R730773	SS15-009A 50ML 20.0			NA
8	ITO15-SIMSTD50.0	TO15_SFS	R730774	SS15-009A 125ML 50.0			NA
8	ITO15-LLSTD100.0	TO15_SFS	R730775	SS15-009A 250ML 100.0	FULL SCAN ONLY		NA
1	BA7032802	TO15_SFS	R730776	250 mL			NA
		Pause					
1	BA7032803	TO15_SFS	R730777	250 mL			NA
2	CTO15-LLSTD010	TO15_SFS	R730778	SS15-003D 250ML 10.0	FULL SCAN ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS	R730779	SS15-003D 125ML 5.0	SIM ICV		NA

Alpha Analytical Air Lab
Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab7

Internal Standard/Surrogate IDs: CSS13-004 / CSS12-019

Date: 04/01/15

Internal Standard/Surrogate Volume: 100 mL

Analyst Initials: RY/MB

Sequence File Name: 150401.S

SIM ICAL# 10835 Full Scan ICAL# 10834 APH ICAL#

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Leak Check Pass ? Y/N
1	TA7040101	TO15_SFS	R730850	250 mL	TUNE		NA
2	CA7040101	TO15_SFS	R730851	SS15-009F 250 mL 10.0	LL CC		NA
		Pause					NA
3	CTO15-LLSTD10	TO15_SFS	R730852	SS15-003D 250 mL 10.0	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS	R730853	SS15-003D 125 mL 5.0	SIM LCS		NA
1	BA7040101	TO15_SFS	R730854	250 mL	BLANK FAILED		NA
1	BA7040102	TO15_SFS	R730855	250 mL	BLANK		NA
2	L1506356-01,3,250,250	TO15_SFS	R730856	250 mL		LL	NA
3	L1506356-02,3,250,250	TO15_SFS	R730857	250 mL		LL	NA
4	L1506354-01,3,250,250	TO15_SFS	R730858	250 mL		LL	NA
5	L1506354-02,3,250,250	TO15_SFS	R730859	250 mL	AS SET INCORRECTLY	LL	NA
5	L1506354-02,3,250,250	TO15_SFS	R730860	250 mL		LL	NA
6	L1506078-03,3,250,250	TO15_SFS	R730861	WG772680,ICAL10834		NY/ 7 SIM	NA
7	L1506078-02,3,250,250	TO15_SFS	R730862	WG772680,ICAL10834		NY/ 7 SIM	NA
7	L1506078-02DUP,3,250,250	TO15_SFS	R730863	WG772680,ICAL10834	LL/ SIM DUP	NY/ 7 SIM	Y
8	L1506022-06,3,250,250	TO15_SFS	R730864	WG772682,ICAL10835		SHORT CL LIST	Y
9	L1506022-08,3,250,250	TO15_SFS	R730865	WG772682,ICAL10835		SHORT CL LIST	Y
10	L1506022-01,3,250,250	TO15_SFS	R730866	WG772680,ICAL10834		SHORT CL LIST	Y
11	L1506022-02,3,250,250	TO15_SFS	R730867	WG772680,ICAL10834		SHORT CL LIST	Y
12	L1506022-03,3,250,250	TO15_SFS	R730868	WG772680,ICAL10834		SHORT CL LIST	Y
13	L1506022-04,3,250,250	TO15_SFS	R730869	WG772680,ICAL10834		SHORT CL LIST	Y
14	L1506022-05,3,250,250	TO15_SFS	R730870	WG772680,ICAL10834		SHORT CL LIST	Y

Alpha Analytical Air Lab
Instrument Run Log

15	L1506022-07,3,250,250	TO15_SFS	R730871	WG772680,ICAL10834		SHORT CL LIST	Y
16	L1506032-01,3,250,250	TO15_SFS	R730872	WG772680,ICAL10834		NY	Y
1	L1506032-02D,3,125,250	TO15_SFS	R730873	WG772680,ICAL10834		NY	Y
2	L1506078-01,3,250,250	TO15_SFS	R730874	WG772680,ICAL10834		NY	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

APPENDIX C
VAPOR INTRUSION SAMPLING DATA USABILITY SUMMARY REPORT

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES INC
12 Gill Street, Suite 4700
Woburn, Massachusetts 01801 TEL 781-569-4000 FAX 781-569-4001

April 28, 2015

Mr. Robert Kovacs
Principal Scientist
Roux Associates, Inc.
209 Shafter Street
Islandia, New York 11749-5074

Re: Data Usability Summary Report for Oceanside Site, NY
Alpha Analytical Lab Number L1506022

Dear Mr. Kovacs:

Data review was performed for the data package generated by Alpha Analytical (Lab Number L1506022). Analytical data for eight (8) summa canister air samples collected by Roux Associates on March 25, 2015 are discussed in this DUSR. USEPA GC/MS method TO-15 was used for the sample analysis of seven site-specific volatile organic compounds. The data validation was performed in accordance with the guidelines presented in the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008*, and in consideration of the specific requirements of USEPA method TO-15.

The data packages provided by the lab contained full deliverables for validation; this DUSR is generated from review of the summary form information, with review of raw data for samples, and limited review of associated raw data for QC samples.

The data review included the following items:

- Data deliverable completeness,
- Laboratory case narratives,
- Chain of custody documentation,
- Holding times,
- Blank results,
- Internal standard results,
- Laboratory control samples,
- Laboratory duplicates,
- Summa canister cleaning certifications,
- Instrument tunes,

- Initial calibration, initial calibration verification, and continuing calibration results,
- Method compliance, and
- Sample result verification.

No data qualifiers are applied to this data set based on the data validation. Copies of the validated sample results are presented in **Appendix A**. Copies of the chain-of-custodies and lab case narratives are presented in **Appendix B**.

Data Deliverable Completeness
A full deliverable data package (i.e., NYSDEC Category B or equivalent) was provided by the laboratory, which included reporting forms and raw data necessary to validate the reported analytical results.

Sample Receipt/Holding Times
All samples were received by the laboratory intact and under proper COCs. All samples were analyzed within the required holding times.

Volatile Analyses by USEPA Method TO-15
No analytical or quality control issues that affect the data quality were noted. Method blank results, internal standard recoveries, laboratory control sample results, and laboratory duplicate results were within the laboratory control limits; results of instrument tunes, initial calibration, initial calibration verification, and continuing calibration were in compliance with the method requirements.

Summary
Sample analyses were found generally compliant with the method requirements. All sample data are usable as reported.

Please do not hesitate to contact me if you have any comments or questions regarding this report.

Sincerely,

ROUX ASSOCIATES, INC.

Yixian Zhang, PhD
Senior Scientist

Enclosure: Definitions of Validation Data Qualifiers

Definitions of Validation Data Qualifiers

Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. The reported quantitation limit is an estimate and may be inaccurate or imprecise.
R	The sample results are rejected and unusable. The analyte may or may not be present.

Appendix A

Validated Sample Results

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-01	Date Collected	: 03/25/15 17:40
Client ID	: VS-DCF	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 22:23
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730866	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	3.23	0.200	--	21.9	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-02	Date Collected	: 03/25/15 15:53
Client ID	: VS-MRE	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 22:57
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730867	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	3.42	0.200	--	23.2	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-03	Date Collected	: 03/25/15 16:17
Client ID	: VS-DCR	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 23:30
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730868	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	1.31	0.200	--	8.88	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-04	Date Collected	: 03/25/15 18:11
Client ID	: VS-FENCE	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/02/15 00:03
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730869	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	1.58	0.200	--	10.7	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-05	Date Collected	: 03/25/15 18:21
Client ID	: VS-YOGURT	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/02/15 00:36
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730870	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	0.726	0.200	--	4.92	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-06	Date Collected	: 03/25/15 17:22
Client ID	: VS-YOGURT IA	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 21:18
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: RY
Lab File ID	: R730864	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	0.042	0.020	--	0.167	0.079	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	0.043	0.020	--	0.231	0.107	--	
127-18-4	Tetrachloroethene	5.87	0.020	--	39.8	0.136	--	
540-59-0	1,2-Dichloroethene (total)	0.042	0.020	--	0.167	0.079	--	

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-07	Date Collected	: 03/25/15 18:24
Client ID	: VS-WINE STORE	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/02/15 01:09
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: RY
Lab File ID	: R730871	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
127-18-4	Tetrachloroethene	9.77	0.200	--	66.3	1.36	--	
540-59-0	1,2-Dichloroethene, Total	ND	0.200	--	ND	0.793	--	U

Form 1
Volatile Organics

Client	: Roux Associates, Inc.	Lab Number	: L1506022
Project Name	: OCEANSIDE PLAZA	Project Number	: 1802.0001Y000
Lab ID	: L1506022-08	Date Collected	: 03/25/15 18:26
Client ID	: VS-WINE STORE IA	Date Received	: 03/26/15
Sample Location	: 3131-3221 LONG BEACH RD.	Date Analyzed	: 04/01/15 21:50
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: RY
Lab File ID	: R730865	Instrument ID	: AIRLAB7
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.488	0.020	--	3.31	0.136	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U

Appendix B

Laboratory Case Narratives and Chain of Custodies (COCs)

Project Name: OCEANSIDE PLAZA
Project Number: 1802.0001Y000

Lab Number: L1506022
Report Date: 04/02/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1506022-01	VS-DCF	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 17:40	03/26/15
L1506022-02	VS-MRE	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 15:53	03/26/15
L1506022-03	VS-DCR	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 16:17	03/26/15
L1506022-04	VS-FENCE	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 18:11	03/26/15
L1506022-05	VS-YOGURT	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 18:21	03/26/15
L1506022-06	VS-YOGURT IA	AIR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 17:22	03/26/15
L1506022-07	VS-WINE STORE	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 18:24	03/26/15
L1506022-08	VS-WINE STORE IA	AIR	3131-3221 LONG BEACH RD. OCEANSIDE	03/25/15 18:26	03/26/15
L1506022-09	CAN 781	SOIL_VAPOR	3131-3221 LONG BEACH RD. OCEANSIDE		03/26/15

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 25, 2015. The canister certification results are provided as an addendum.

Sample Receipt

The canister and flow controller ID numbers for the sample designated VS-WINE STORE IA (L1506022-08) are transposed on the chain of custody form.

The sample designated VS-MRE (L1506022-02) had a RPD for the pre- and post-flow controller calibration check (45% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 9.9 mL/minute; the final flow rate was 15.6 mL/minute. The final pressure recorded by the laboratory of the associated canister was -2.6 inches of mercury.

The sample designated VS-DCR (L1506022-03) had a RPD for the pre- and post-flow controller calibration check (28% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 10.0 mL/minute; the final flow rate was 13.3 mL/minute. The final pressure recorded by the laboratory of the associated canister was -2.5 inches of mercury.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Christopher J Anderson Report Date: 04/02/15

Title: Technical Director/Representative

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 3/27/15

ALPHA Job #: L1506022

Client Information

Client: Roux Associates
Address: 209 Shafter Street
Islandia NY 11749
Phone: 631 232 2600
Fax:
Email: rkovacs@rouxinc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Oceanside Plaza
Project Location: 3131-3221 Long Beach Rd Oceanside
Project #: 1802.0001Y000
Project Manager: Robert Kovacs
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 4/2/15 Time:

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
☐ EMAIL (standard pdf report)
☐ Additional Deliverables: NYSDEC Category B
Report to: (if different than Project Manager) _____

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:
Detection limit: 1 ug/m³ or less

Tetrachloroethene
Trichloroethene
Vinyl Chloride

Analyze for:
1,1-dichloroethene
cis-1,2-dichloroethene
Trans-1,2-dichloroethene
1,2-Dichloroethene (total)

Can: 0079
FC: 781
WERE NOT USED!

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
06022-01	VS-DCF	3/25/15	0854	1740	-30	-4	SV	SV	6L	1995	0562		X						
-02	VS-MRE		0905	1553	-30	-4	SV	SV	6L	1878	0581		X						
-03	VS-DCR		0935	1617	-32	-4	SV	SV	6L	1642	0298		X						
-04	VS-Fence		0955	1811	-30	-4	SV	SV	6L	1584	0622		X						
-05	VS-Yogurt		1018	1821	-31	-9	SV	SV	6L	2068	4446		X						
-06	VS-Yogurt IA		1027	1722	-28	-3	SV	IA	6L	1877	0074			X					
-07	VS-Wine Store		1042	1824	-30	-9	SV	SV	6L	2002	0227		X						
-08	VS-Wine Store IA		1046	1826	-30	-7	SV	IA	6L	0208	1700			X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

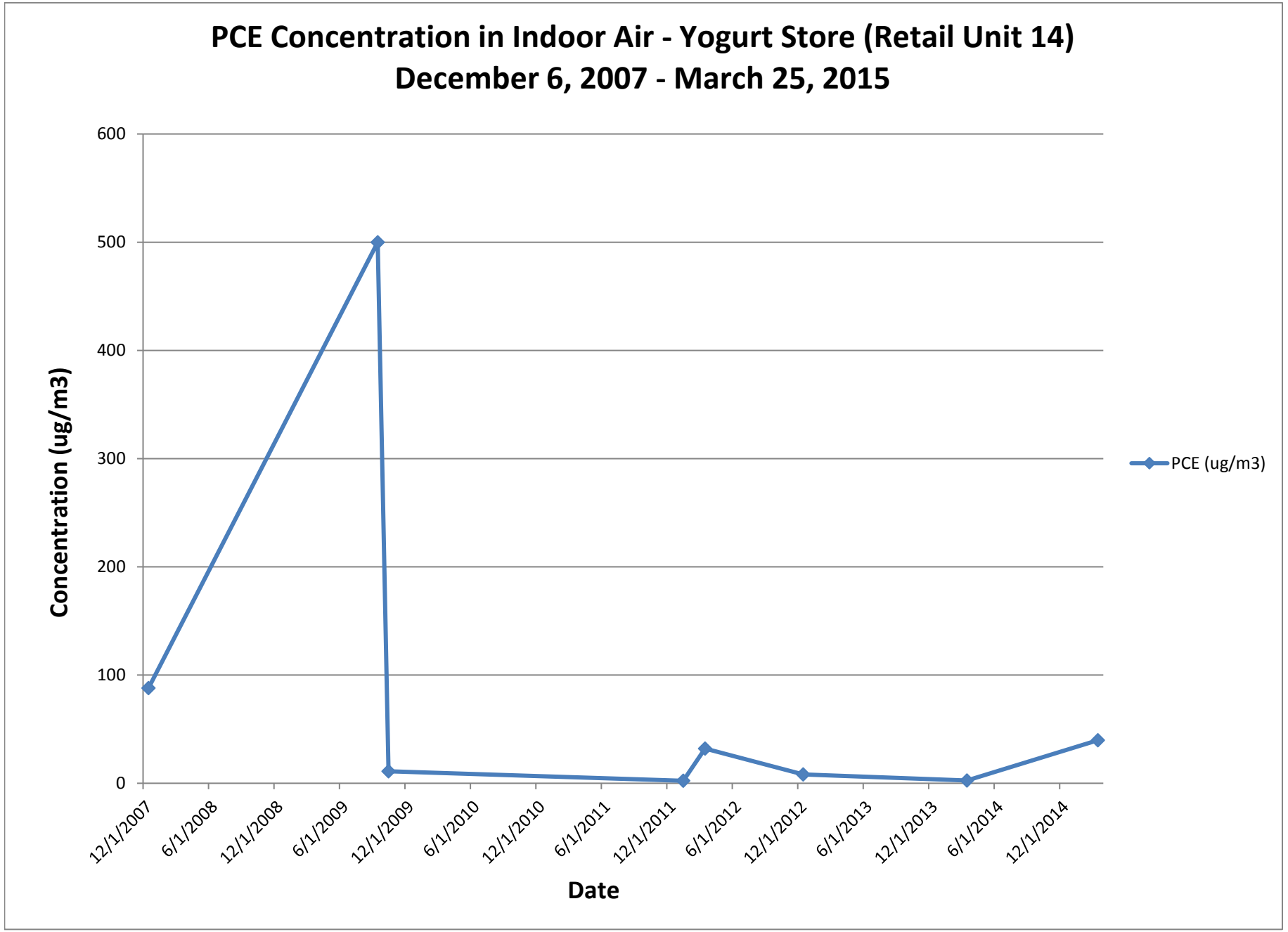
Container Type

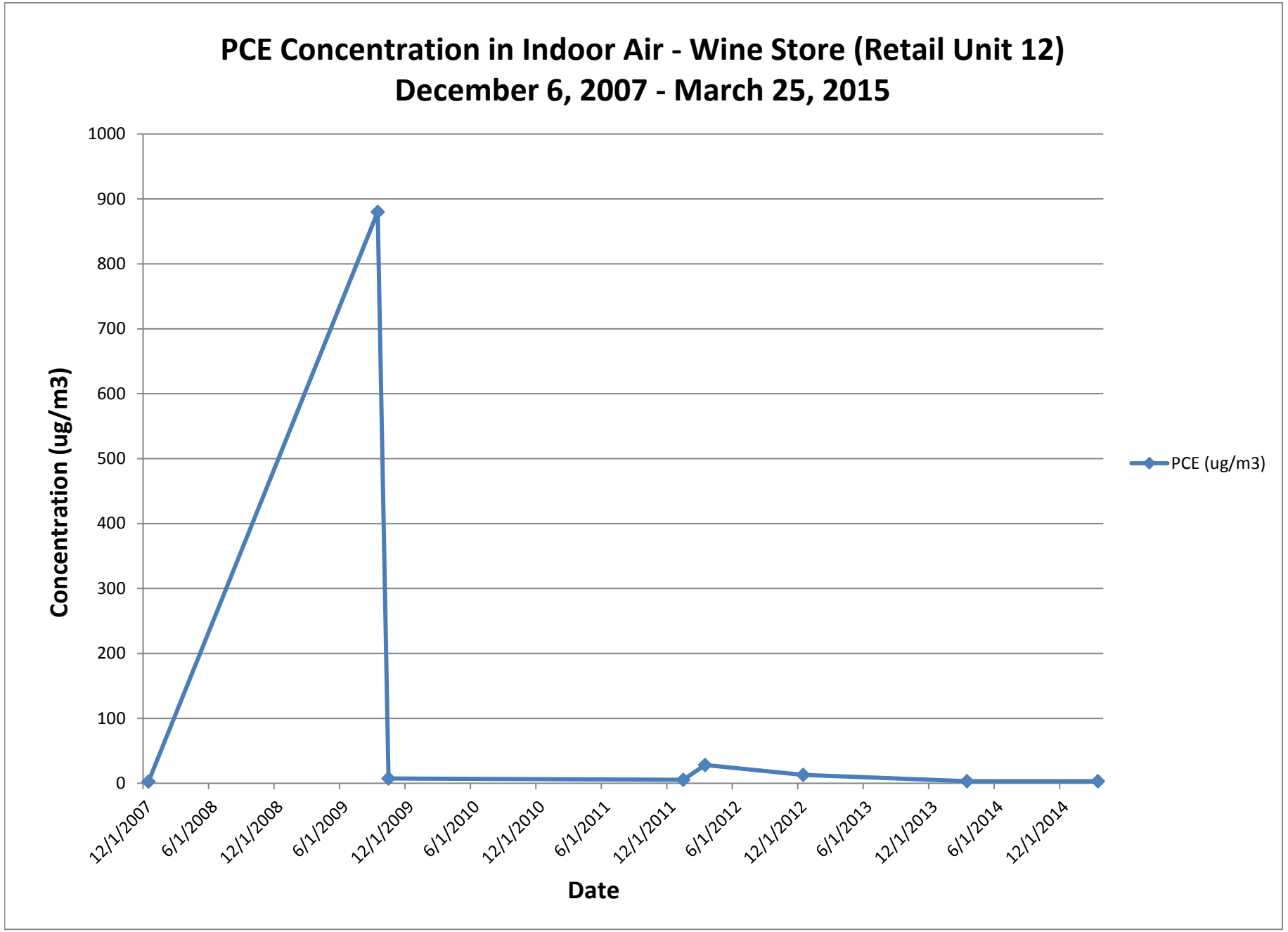
Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

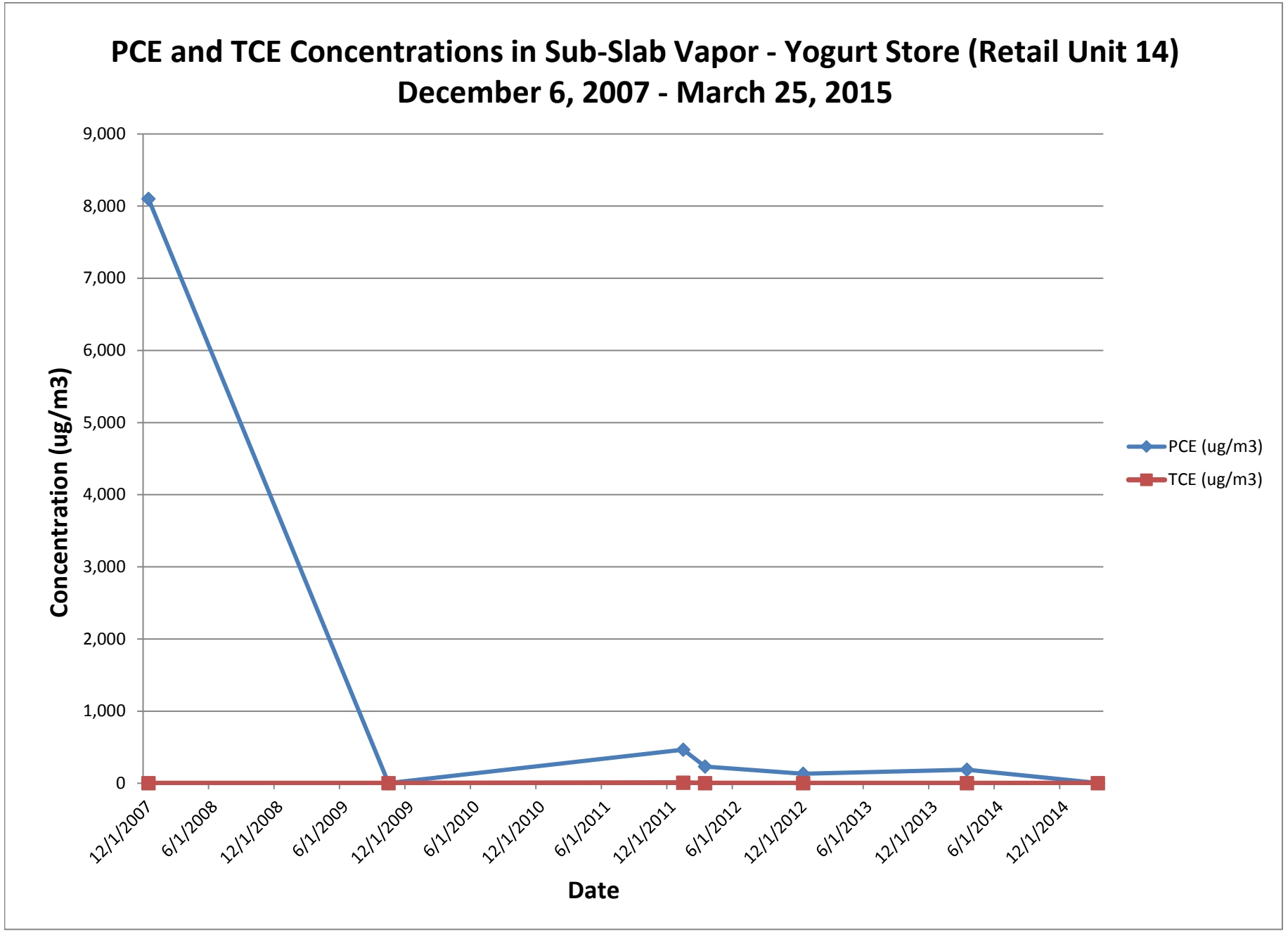
Relinquished By:	Date/Time	Received By:	Date/Time:
[signature]	3/26/15	[signature]	3/26/15 1610
[signature]	3/26/15 1950	[signature]	3-26-15 1950
[signature]	3-27-15 0110	[signature]	3/27/15 0110

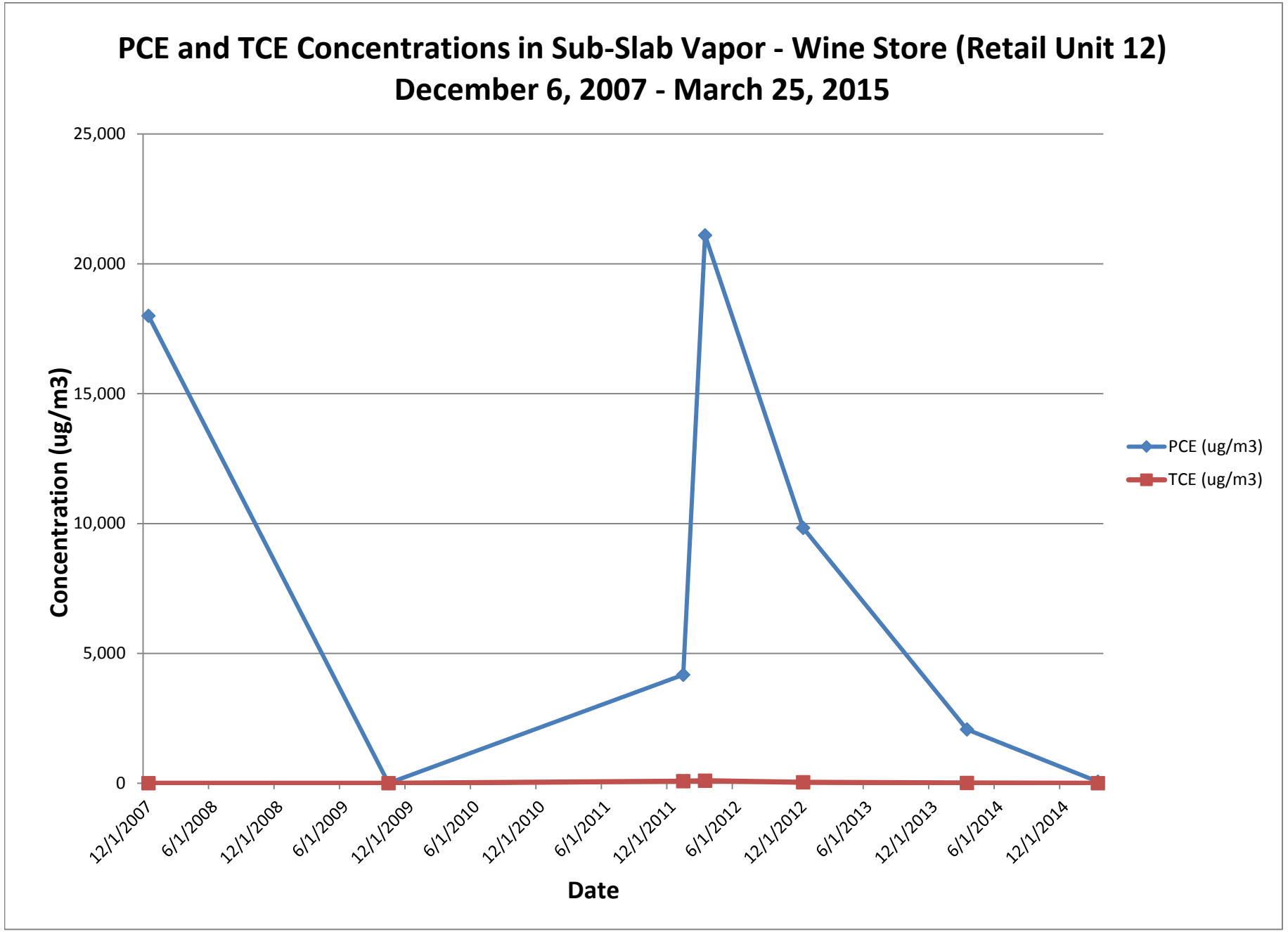
Form No: 101-02 (19-Jun-09)

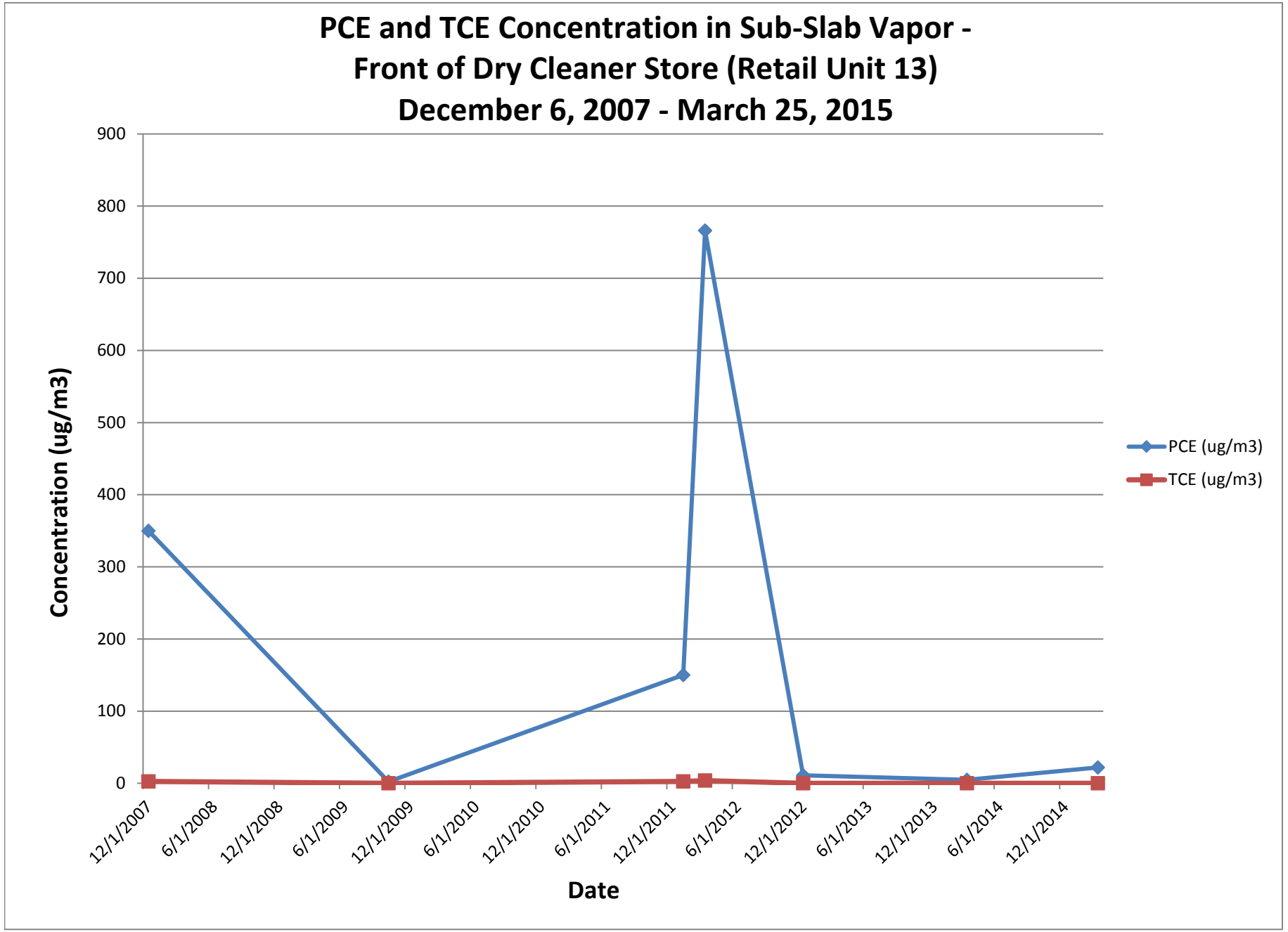
APPENDIX D
VAPOR INTRUSION CONCENTRATION GRAPHS

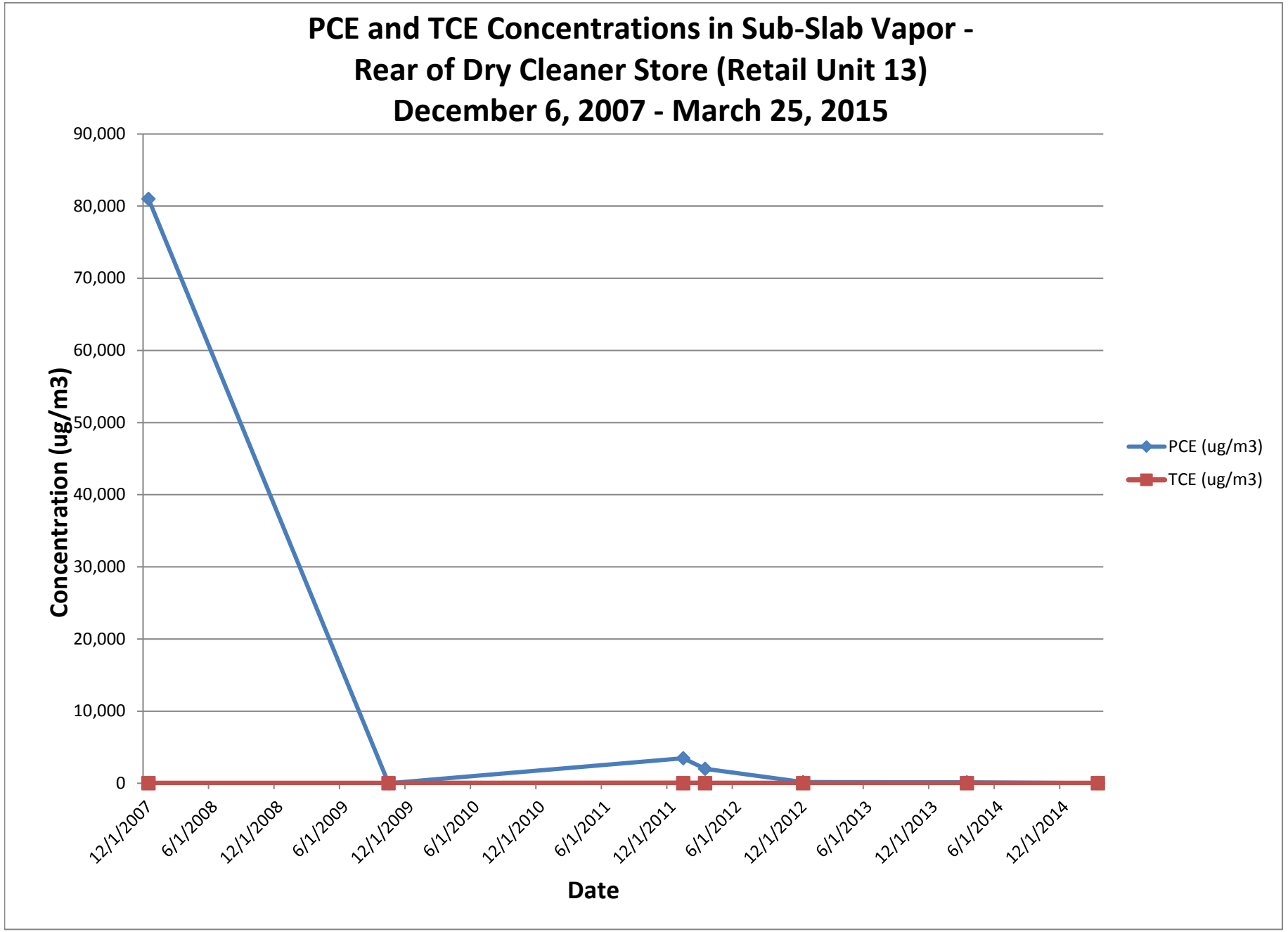

PCE Concentration in Indoor Air - Yogurt Store (Retail Unit 14)
December 6, 2007 - March 25, 2015
Concentration (ug/m3)
600
500
400
300
200
100
0
12/1/2007
6/1/2008
12/1/2008
6/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
Date
PCE (ug/m3)

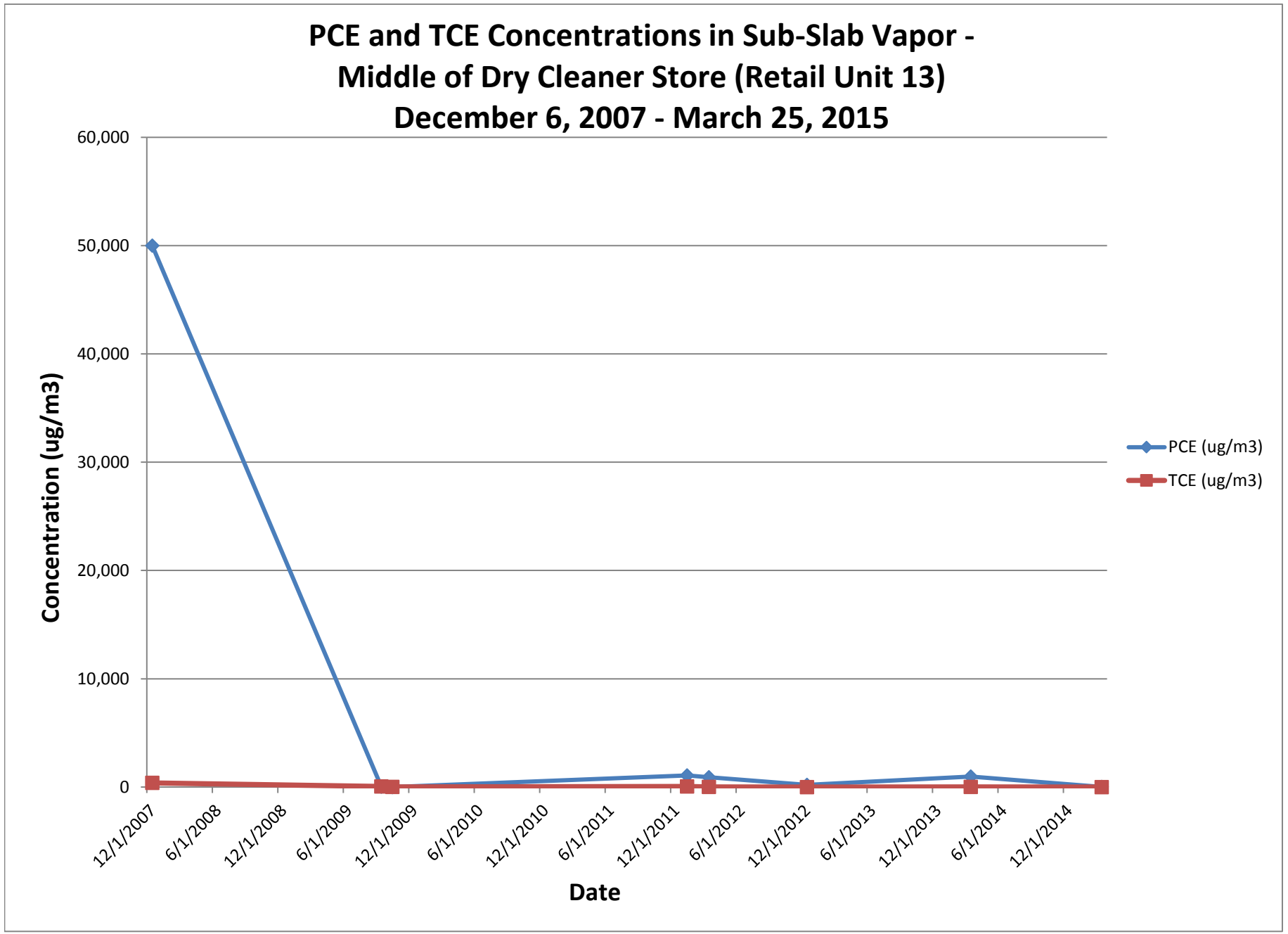

PCE Concentration in Indoor Air - Wine Store (Retail Unit 12)
December 6, 2007 - March 25, 2015
Concentration (ug/m3)
1000
900
800
700
600
500
400
300
200
100
0
12/1/2007
6/1/2008
12/1/2008
6/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
Date
PCE (ug/m3)


PCE and TCE Concentrations in Sub-Slab Vapor - Yogurt Store (Retail Unit 14)
December 6, 2007 - March 25, 2015
Concentration (ug/m3)
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
12/1/2007
6/1/2008
12/1/2008
6/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
Date
PCE (ug/m3)
TCE (ug/m3)


PCE and TCE Concentrations in Sub-Slab Vapor - Wine Store (Retail Unit 12)
December 6, 2007 - March 25, 2015
25,000
20,000
15,000
10,000
5,000
0
Concentration (ug/m3)
12/1/2007
6/1/2008
12/1/2008
6/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
Date
PCE (ug/m3)
TCE (ug/m3)


PCE and TCE Concentration in Sub-Slab Vapor -
Front of Dry Cleaner Store (Retail Unit 13)
December 6, 2007 - March 25, 2015
Concentration (ug/m3)
900
800
700
600
500
400
300
200
100
0
12/1/2007
6/1/2008
12/1/2008
6/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
Date
PCE (ug/m3)
TCE (ug/m3)


PCE and TCE Concentrations in Sub-Slab Vapor -
Rear of Dry Cleaner Store (Retail Unit 13)
December 6, 2007 - March 25, 2015
Concentration (ug/m3)
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
12/1/2007
6/1/2008
12/1/2008
6/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
Date
PCE (ug/m3)
TCE (ug/m3)


PCE and TCE Concentrations in Sub-Slab Vapor -
Middle of Dry Cleaner Store (Retail Unit 13)
December 6, 2007 - March 25, 2015
Concentration (ug/m3)
60,000
50,000
40,000
30,000
20,000
10,000
0
12/1/2007
6/1/2008
12/1/2008
6/1/2009
12/1/2009
6/1/2010
12/1/2010
6/1/2011
12/1/2011
6/1/2012
12/1/2012
6/1/2013
12/1/2013
6/1/2014
12/1/2014
Date
PCE (ug/m3)
TCE (ug/m3)

APPENDIX E
GROUND WATER SAMPLING LABORATORY ANALYTICAL DATA SHEETS

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

NYSDEC ASP Category B Data Package

Prepared for:

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

Project: Oceanside Plaza
Groundwater and Water Samples
Collected on 03/10/15

SDG# OSP16

GROUP	SAMPLE NUMBERS
1544025	7798166-7798170

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-13-10
AZ Cert. # AZ0780

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: Dana M Kauffman **Date:** **03/25/2015**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Kaitlin Plasterer at (717) 556-7323.

2425 New Holland Pike, Lancaster, PA 17601 · 717-656-2300 · Fax: 717-656-2681 · www.LancasterLabs.com

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Sample Reference List for SDG Number OSP16
with a Data Package Type of NYSDEC B

12577 - Reliance Environmental, Inc.

Project: Oceanside Plaza

Lab Sample Number	Lab Sample Code	Client Sample Description
7798166	BKO04	BKO-MW4 Grab Groundwater
7798167	BKO05	BKO-MW5 Grab Groundwater
7798168	BKOFD	BKO-DUP Grab Groundwater
7798169	BKOFB	BKO-FB Grab Water
7798170	BKOTB	BKO-TB Water

eurofins | Lancaster Laboratories Environmental

Sample pH Log

SDG: OSP16

LLI Sample Number	Bottle Code	Actual pH	Exp. pH	pH Check Code	Adj. pH	Adjusted Date	Adjusted Time	Preservative Added	Preservative Lot #	LLI Supplied Bottle?	Sulfide Present?	Corrective Substance	CS Lot #	Res. Cl. Present?	Corrective Substance	CS Lot #
7798166	038A	<2	<2	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7798167	038A	<2	<2	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7798168	038A	<2	<2	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7798169	038A	<2	<2	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA
7798170	038A	<2	<2	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA

Check Code Key
PK = Original container checked - pH is within the correct range. (No preservative was added)
PA = Original container checked - pH adjusted to correct range. (Preservative was added)
PV = Volatile container checked
PC = pH checked (unpreserved container)
SPK = Subsampled from an original container. Original container checked - pH is within correct range
SPA = Subsampled from an original container. Subsample container checked - pH adjusted to correct range.
SPC = Subsampled from an original container. pH checked (unpreserved container).
SUP = Subsampled from original container. Unable to be preserved due to the matrix of the sample.
UP = Unable to preserve due to matrix of the sample.
NA = Not applicable

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

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 5030C, May 2003.

11997 VOCs- 5ml Water by 8260C

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: Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS), SW-846 Method 8260C, August 2006.

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

March 12, 2015

Project: Oceanside Plaza

Submittal Date: 03/10/2015
Group Number: 1544025
SDG: OSP16
State of Sample Origin: NY

Client Sample Description	Lancaster Labs (LL) #
BKO-MW4 Grab Groundwater	7798166
BKO-MW5 Grab Groundwater	7798167
BKO-DUP Grab Groundwater	7798168
BKO-FB Grab Water	7798169
BKO-TB Water	7798170

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO Reliance Environmental, Inc. Attn: Mark Zunich

Respectfully Submitted,

Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: BKO-MW4 Grab Groundwater
Oceanside Plaza

LL Sample # WW 7798166
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 11:00 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKO04 SDG#: OSP16-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		ug/l	ug/l	ug/l	
11997	Acrolein	107-02-8	N.D.	40	100	1
11997	Acrylonitrile	107-13-1	N.D.	4	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.	2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 18:49	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-MW4 Grab Groundwater
Oceanside Plaza

LL Sample # WW 7798166
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 11:00 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKO04 SDG#: OSP16-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 18:49	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-MW5 Grab Groundwater
Oceanside Plaza

LL Sample # WW 7798167
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 12:00 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKO05 SDG#: OSP16-02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**		**ug/l**	**ug/l**	
11997	Acrolein	107-02-8	N.D.		40	100	1
11997	Acrylonitrile	107-13-1	N.D.		4	20	1
11997	Benzene	71-43-2	N.D.		0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.		0.5	1	1
11997	Bromoform	75-25-2	N.D.		0.5	4	1
11997	Bromomethane	74-83-9	N.D.		0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.		0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.		0.5	1	1
11997	Chloroethane	75-00-3	1		0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
11997	Chloroform	67-66-3	N.D.		0.5	1	1
11997	Chloromethane	74-87-3	N.D.		0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.		0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.		0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.		0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.		0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	18		0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.		0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.		0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.		2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1	1
11997	Tetrachloroethene	127-18-4	2		0.5	1	1
11997	Toluene	108-88-3	N.D.		0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1	1
11997	Trichloroethene	79-01-6	N.D.		0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.		0.5	1	1
11997	Vinyl Chloride	75-01-4	0.8	J	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.		0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 20:24	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 20:24	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-DUP Grab Groundwater
Oceanside Plaza

LL Sample # WW 7798168
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 11:05 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKOFD SDG#: OSP16-03FD

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		ug/l	ug/l	ug/l	
11997	Acrolein	107-02-8	N.D.	40	100	1
11997	Acrylonitrile	107-13-1	N.D.	4	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.	2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 20:47	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 20:47	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-FB Grab Water
Oceanside Plaza

LL Sample # WW 7798169
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 12:15 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKOFB SDG#: OSP16-04FB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acrolein	107-02-8	N.D.	40	100	1
11997	Acrylonitrile	107-13-1	N.D.	4	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.	2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 21:09	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 21:09	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-TB Water
Oceanside Plaza

LL Sample # WW 7798170
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKOTB SDG#: OSP16-05TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		**ug/l**	**ug/l**	**ug/l**	
11997	Acrolein	107-02-8	N.D.	40	100	1
11997	Acrylonitrile	107-13-1	N.D.	4	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.	2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 21:31	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 21:31	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Reliance Environmental, Inc. Group Number: 1544025
Reported: 03/12/2015 17:55

Matrix QC may not be reported if insufficient sample or 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 Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: L150702AA	Sample number(s): 7798166-7798170								
Acrolein	N.D.	40.	100	ug/l	102	98	60-120	4	30
Acrylonitrile	N.D.	4.	20	ug/l	93	97	55-127	4	30
Benzene	N.D.	0.5	1	ug/l	93	95	78-120	3	30
Bromodichloromethane	N.D.	0.5	1	ug/l	87	88	73-120	1	30
Bromoform	N.D.	0.5	4	ug/l	87	88	52-123	2	30
Bromomethane	N.D.	0.5	1	ug/l	81	81	53-130	0	30
Carbon Tetrachloride	N.D.	0.5	1	ug/l	89	91	74-130	2	30
Chlorobenzene	N.D.	0.5	1	ug/l	100	102	80-120	1	30
Chloroethane	N.D.	0.5	1	ug/l	90	81	56-120	11	30
2-Chloroethyl Vinyl Ether	N.D.	2.	10	ug/l	88	92	44-143	5	30
Chloroform	N.D.	0.5	1	ug/l	93	95	80-120	2	30
Chloromethane	N.D.	0.5	1	ug/l	85	88	63-120	4	30
Dibromochloromethane	N.D.	0.5	1	ug/l	95	96	72-120	1	30
1,1-Dichloroethane	N.D.	0.5	1	ug/l	87	89	80-120	2	30
1,2-Dichloroethane	N.D.	0.5	1	ug/l	96	96	72-127	1	30
1,1-Dichloroethene	N.D.	0.5	1	ug/l	78	80	76-124	3	30
cis-1,2-Dichloroethene	N.D.	0.5	1	ug/l	96	98	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.5	1	ug/l	92	92	80-120	0	30
1,2-Dichloropropane	N.D.	0.5	1	ug/l	93	94	80-120	1	30
cis-1,3-Dichloropropene	N.D.	0.5	1	ug/l	92	94	80-120	3	30
trans-1,3-Dichloropropene	N.D.	0.5	1	ug/l	94	96	76-120	2	30
Ethylbenzene	N.D.	0.5	1	ug/l	97	98	80-120	1	30
Methylene Chloride	N.D.	2.	4	ug/l	88	89	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	1	ug/l	94	99	70-120	5	30
Tetrachloroethene	N.D.	0.5	1	ug/l	101	103	80-120	1	30
Toluene	N.D.	0.5	1	ug/l	97	99	80-120	2	30
1,1,1-Trichloroethane	N.D.	0.5	1	ug/l	77	80	66-126	3	30
1,1,2-Trichloroethane	N.D.	0.5	1	ug/l	100	101	80-120	0	30
Trichloroethene	N.D.	0.5	1	ug/l	94	96	80-120	2	30
Trichlorofluoromethane	N.D.	0.5	1	ug/l	98	98	58-135	1	30
Vinyl Chloride	N.D.	0.5	1	ug/l	88	90	69-120	1	30
Xylene (Total)	N.D.	0.5	1	ug/l	100	101	80-120	1	30

Surrogate Quality Control

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

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: Reliance Environmental, Inc. Group Number: 1544025
Reported: 03/12/2015 17:55

Surrogate Quality Control

Analysis Name: VOCs- 5ml Water by 8260C
Batch number: L150702AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7798166	97	101	97	92
7798167	99	103	97	92
7798168	99	103	98	92
7798169	98	103	97	91
7798170	97	101	97	90
Blank	98	103	98	92
LCS	98	103	100	95
LCSD	98	102	98	94
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Environmental Analysis Request/Chain of Custody

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Acct. # 12577

For Eurofins Lancaster Laboratories Environmental use only
Group # 1541025 Sample # 7798166-70
Instructions on reverse side correspond with circled numbers.

371065

1 Client Information

Client: Reliance Env.	Acct. #:
Project Name/#: Oceanside Plaza	PWSID #:
Project Manager: Mark Zunich	P.O. #:
Sampler: Casey Stevenson	Quote #:

Name of state where samples were collected: NY

2 Sample Identification / 3 / 4 Matrix / 5 Analysis Requested

Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Sediment	Water: Ground	Potable	Surface	NPDES	Other:	Total # of Containers	5 Preservation Codes	6 Remarks
BKO-MW4	03/10/15	1100	X				X					10	X	
BKO-MW5		1200	↓				↓					↓	X	
BKO-DUP		1185											X	
BKO-EB		1215											X	
BKO-TB							↓					2	X	

VOCs (8260)

For Lab Use Only
FSC:
SCR#: 168321

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

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

NYSDEC Category A or B MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Bottle Storage	3/6/15	1315			
	3/10/15	1640			

9

Received by	Date	Time
	3/10/15	1640

EDD Required? Yes No
If yes, format: _____

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

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.1 °C

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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

<	less than
>	greater than
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 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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) 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.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Sample Administration Receipt Documentation Log

Doc Log ID: 59660

Group Number(s): 1544025

Client: Reliance Env.

Delivery and Receipt Information

Delivery Method:	Client Drop Off	Arrival Timestamp:	03/10/2015 16:40
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	NY		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	2
Samples Intact:	Yes	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jordan Woods (6698) at 17:03 on 03/10/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	1.1	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.co

Volatiles by GC/MS Data

Case Narrative/Conformance Summary

Volatiles by GC/MS

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Case Narrative/Conformance Summary

CLIENT: Reliance Environmental, Inc.
SDG: OSP16

GC/MS Volatiles

Fraction: Volatiles by GC/MS

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
7798166	BKO-MW4	X		1	
7798167	BKO-MW5	X		1	
7798168	BKO-DUP	X		1	Field Duplicate Sample
7798169	BKO-FB	X		1	Field Blank
7798170	BKO-TB	X		1	Trip Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

(Sample number(s): 7798166-7798170: Analysis: 11997)
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.

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, laboratory spike data (LCS) are provided.

Case Narrative/Conformance Summary

CLIENT: Reliance Environmental, Inc.
SDG: OSP16

GC/MS Volatiles

Fraction: Volatiles by GC/MS

SAMPLE ANALYSIS:

No problems were encountered with the analysis of the samples.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	RE = Repreparation/Reanalysis
LCSD = Lab Control Sample Duplicate	* = Out of Specification

GC/MS VOLATILES CALCULATIONS:

1. Relative response factor (RRF)

$$RRF = \frac{Ax}{Ais} \times \frac{Cis}{Cx}$$

Where :
Ax = Area of the characteristic ion for the compound to be measured.
Ais = Area of the characteristic ion for the specific internal standard to be measured.
Cis = Concentration of the internal standard.
Cx = Concentration of the compound to be measured.

2. % Relative Standard Deviation (%RSD)

$$\%RSD = \frac{\text{Standard deviation}}{\text{mean}} \times 100$$

3. % Difference (%D)

$$\%D = \frac{RRFc - RRFi}{RRFi} \times 100$$

Where:
RRFc=Relative response factor from continuing calibration standard.
RRFi = Mean relative response factor from the initial calibration.

4. Concentration

$$\text{Concentration (ug/l)} = \frac{(Ax)\ (Is)\ (Df)}{(Ais)\ (RRF)}$$

Where:
Ax , Ais, RRF are as given in 1..above.
Is = Concentration of internal standard added in parts per billion (ug/l)
Df = Dilution factor

5. % Recovery (%Rec)

$$\%Rec = \frac{SSR - SR}{SA} \times 100$$

Where:
SSR = Spiked sample result
SR = Sample result
SA = Spike added

6. Relative Percent Difference (RPD)

$$RPD = \frac{|\ MSR - MSDR\ |}{(1/2)\ (MSR+MSDR)} \times 100$$

Where:
MSR = Matrix spike recovery
MSDR = Matrix spike duplicate recovery

Quality Control and Calibration Summary Forms

Volatiles by GC/MS

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Quality Control Reference List
GC/MS Volatiles

CLIENT: Reliance Environmental, Inc.
SDG: OSP16

Fraction: Volatiles by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
VOCs- 5ml Water by 8260C	L150702AA	VBLKL64	03/11/2015 14:47:00
		LCSL64	03/11/2015 17:01:00
		LCDL64	03/11/2015 17:24:00
		7798166	03/11/2015 18:49:00
		7798167	03/11/2015 20:24:00
		7798168	03/11/2015 20:47:00
		7798169	03/11/2015 21:09:00
		7798170	03/11/2015 21:31:00

Quality Control Summary
Method Blank
GC/MS Volatiles
SDG: OSP16
Matrix: LIQUID

Fraction: Volatiles by GC/MS

L150702AA / VBLKL64 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Chloromethane	03/11/15	N.D.	ug/l	0.5	1
Vinyl Chloride	03/11/15	N.D.	ug/l	0.5	1
Bromomethane	03/11/15	N.D.	ug/l	0.5	1
Chloroethane	03/11/15	N.D.	ug/l	0.5	1
Trichlorofluoromethane	03/11/15	N.D.	ug/l	0.5	1
Acrolein	03/11/15	N.D.	ug/l	40	100
1,1-Dichloroethene	03/11/15	N.D.	ug/l	0.5	1
Methylene Chloride	03/11/15	N.D.	ug/l	2	4
Acrylonitrile	03/11/15	N.D.	ug/l	4	20
trans-1,2-Dichloroethene	03/11/15	N.D.	ug/l	0.5	1
1,1-Dichloroethane	03/11/15	N.D.	ug/l	0.5	1
cis-1,2-Dichloroethene	03/11/15	N.D.	ug/l	0.5	1
Chloroform	03/11/15	N.D.	ug/l	0.5	1
1,1,1-Trichloroethane	03/11/15	N.D.	ug/l	0.5	1
Carbon Tetrachloride	03/11/15	N.D.	ug/l	0.5	1
Benzene	03/11/15	N.D.	ug/l	0.5	1
1,2-Dichloroethane	03/11/15	N.D.	ug/l	0.5	1
Trichloroethene	03/11/15	N.D.	ug/l	0.5	1
1,2-Dichloropropane	03/11/15	N.D.	ug/l	0.5	1
Bromodichloromethane	03/11/15	N.D.	ug/l	0.5	1
2-Chloroethyl Vinyl Ether	03/11/15	N.D.	ug/l	2	10
cis-1,3-Dichloropropene	03/11/15	N.D.	ug/l	0.5	1
trans-1,3-Dichloropropene	03/11/15	N.D.	ug/l	0.5	1
Toluene	03/11/15	N.D.	ug/l	0.5	1
Tetrachloroethene	03/11/15	N.D.	ug/l	0.5	1
1,1,2-Trichloroethane	03/11/15	N.D.	ug/l	0.5	1
Dibromochloromethane	03/11/15	N.D.	ug/l	0.5	1
Chlorobenzene	03/11/15	N.D.	ug/l	0.5	1
Ethylbenzene	03/11/15	N.D.	ug/l	0.5	1
Xylene (Total)	03/11/15	N.D.	ug/l	0.5	1
Bromoform	03/11/15	N.D.	ug/l	0.5	4
1,1,2,2-Tetrachloroethane	03/11/15	N.D.	ug/l	0.5	1

Quality Control Summary
Surrogates
GC/MS Volatiles
SDG: OSP16
Matrix: LIQUID

Fraction: Volatiles by GC/MS

L150702AA	Dibromofluoromethane		1,2-Dichloroethane-d4		Toluene-d8		4-Bromofluorobenzene	
	Spike Added	50 ug/l	Spike Added	50 ug/l	Spike Added	50 ug/l	Spike Added	50 ug/l
Sample	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits	% Recovery	Limits
VBLKL64	98	80 - 116	103	77 - 113	98	80 - 113	92	78 - 113
LCSL64	98	80 - 116	103	77 - 113	100	80 - 113	95	78 - 113
LCDL64	98	80 - 116	102	77 - 113	98	80 - 113	94	78 - 113
7798166	97	80 - 116	101	77 - 113	97	80 - 113	92	78 - 113
7798167	99	80 - 116	103	77 - 113	97	80 - 113	92	78 - 113
7798168	99	80 - 116	103	77 - 113	98	80 - 113	92	78 - 113
7798169	98	80 - 116	103	77 - 113	97	80 - 113	91	78 - 113
7798170	97	80 - 116	101	77 - 113	97	80 - 113	90	78 - 113

GC/MS Volatiles

Fraction: Volatiles by GC/MS

LCS: LCSL64 LCSD: LCDL64	Batch: **L150702AA** (Sample number(s): 7798166-7798170)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Chloromethane	20	16.94	17.61	85	88	63-120	4	30
Vinyl Chloride	20	17.67	17.93	88	90	69-120	1	30
Bromomethane	20	16.25	16.25	81	81	53-130	0	30
Chloroethane	20	18.03	16.19	90	81	56-120	11	30
Trichlorofluoromethane	20	19.68	19.57	98	98	58-135	1	30
1,1-Dichloroethene	20	15.54	15.98	78	80	76-124	3	30
Acrolein	150	153.73	147.59	102	98	60-120	4	30
Methylene Chloride	20	17.53	17.87	88	89	80-120	2	30
Acrylonitrile	100	93.11	97.1	93	97	55-127	4	30
trans-1,2-Dichloroethene	20	18.3	18.36	92	92	80-120	0	30
1,1-Dichloroethane	20	17.36	17.76	87	89	80-120	2	30
cis-1,2-Dichloroethene	20	19.17	19.53	96	98	80-120	2	30
1,1,1-Trichloroethane	20	15.43	15.95	77	80	66-126	3	30
Chloroform	20	18.58	18.98	93	95	80-120	2	30
Carbon Tetrachloride	20	17.82	18.13	89	91	74-130	2	30
1,2-Dichloroethane	20	19.12	19.25	96	96	72-127	1	30
Benzene	20	18.54	19.04	93	95	78-120	3	30
Trichloroethene	20	18.85	19.24	94	96	80-120	2	30
1,2-Dichloropropane	20	18.65	18.88	93	94	80-120	1	30
Bromodichloromethane	20	17.4	17.62	87	88	73-120	1	30
2-Chloroethyl Vinyl Ether	20	17.58	18.4	88	92	44-143	5	30
cis-1,3-Dichloropropene	20	18.37	18.9	92	94	80-120	3	30
Toluene	20	19.44	19.83	97	99	80-120	2	30
trans-1,3-Dichloropropene	20	18.79	19.15	94	96	76-120	2	30
1,1,2-Trichloroethane	20	20.06	20.14	100	101	80-120	0	30
Tetrachloroethene	20	20.25	20.51	101	103	80-120	1	30
Dibromochloromethane	20	18.92	19.17	95	96	72-120	1	30
Chlorobenzene	20	20.08	20.33	100	102	80-120	1	30
Ethylbenzene	20	19.43	19.6	97	98	80-120	1	30
Xylene (Total)	60	60.27	60.81	100	101	80-120	1	30
Bromoform	20	17.34	17.61	87	88	52-123	2	30
1,1,2,2-Tetrachloroethane	20	18.85	19.82	94	99	70-120	5	30

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: OSP16

Lab File ID: lj27t01.d BFB Injection Date: 01/27/15

Instrument ID: HP09915 BFB Injection Time: 12:04

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	16.50
75	30.0 - 60.0% of mass 95	45.66
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.52
173	Less than 2.0% of mass 174	0.36 (0.43)1
174	Greater than 50.0% of mass 95	84.00
175	5.0 - 9.0% of mass 174	5.95 (7.08)1
176	Greater than 95.0%, but less than 101.0% of mass 174	81.14 (96.60)1
177	5.0 - 9.0% of mass 176	5.30 (6.53)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	lj27i01.d	01/27/15	13:13
02	VSTD100	lj27i02.d	01/27/15	13:36
03	VSTD50	lj27i08.d	01/27/15	14:36
04	VSTD10	lj27i05.d	01/27/15	16:32
05	VSTD20	lj27i09.d	01/27/15	16:54
06	VSTD4	lj27i06.d	01/27/15	17:16
07	VSTD1	lj27i07.d	01/27/15	17:39
08	MDL0.5 - MDLD0.5	lj27m01.d	01/27/15	18:01
09	LGLICV	lj27v01.d	01/27/15	18:23

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: OSP16

Lab File ID: lm11t05.d BFB Injection Date: 03/11/15

Instrument ID: HP09915 BFB Injection Time: 13:39

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	15.34
75	30.0 - 60.0% of mass 95	43.05
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.26
173	Less than 2.0% of mass 174	0.61 (0.69)1
174	Greater than 50.0% of mass 95	87.80
175	5.0 - 9.0% of mass 174	6.10 (6.94)1
176	Greater than 95.0%, but less than 101.0% of mass 174	84.39 (96.12)1
177	5.0 - 9.0% of mass 176	5.65 (6.69)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	lm11c01.d	03/11/15	14:02
02	VSTD50	lm11c02.d	03/11/15	14:24
03	VBLKL64	lm11b05.d	03/11/15	14:47
04	LCSL65	lm11s43.d	03/11/15	15:54
05	LCDL65	lm11s44.d	03/11/15	16:16
06	MDL001 - MDL001	lm11m05.d	03/11/15	16:39
07	LCSL64	lm11s41a.d	03/11/15	17:01
08	LCDL64	lm11s42a.d	03/11/15	17:24
09	7798166	lm11s45.d	03/11/15	18:49
10	7797671	lm11s57.d	03/11/15	19:17
11	7797670	lm11s58.d	03/11/15	19:39
12	7798167	lm11s46.d	03/11/15	20:24
13	7798168	lm11s47.d	03/11/15	20:47
14	7798169	lm11s48.d	03/11/15	21:09
15	7798170	lm11s49.d	03/11/15	21:31
16	7795002DL	lm11s50.d	03/11/15	21:54
17	7795003DL	lm11s51.d	03/11/15	22:16
18	7795004DL	lm11s52.d	03/11/15	22:38
19	7795007DL	lm11s53.d	03/11/15	23:00
20	7795008DL	lm11s54.d	03/11/15	23:23

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 Calibration Date(s): 01/27/15 01/27/15

Heated Purge: (Y/N) Y Calibration Times: 13:13 17:39

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

LAB FILE ID: RRF 1 = lj27i07.d RRF 4 = lj27i06.d RRF 10= lj27i05.d
RRF 20= lj27i09.d RRF 50= lj27i08.d RRF100= lj27i02.d RRF300= lj27i01.d

COMPOUND	RRF 1	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	$\overline{RRF}$	% RSD	CAL. METHOD	
Dichlorodifluoromethane	#0.2045	0.2448	0.2724	0.2925	0.3337	0.3084	0.3322	0.2841	17	AVG	#
Chloromethane	#0.3113	0.2945	0.2698	0.2940	0.3138	0.3061	0.3193	0.3013	6	AVG	#
Vinyl Chloride	#0.2805	0.2633	0.2534	0.2783	0.2989	0.2828	0.2975	0.2792	6	AVG	#
Bromomethane	#0.1688	0.1750	0.1602	0.1680	0.1775	0.1690	0.1479	0.1666	6	AVG	#
Chloroethane	#0.1613	0.1566	0.1425	0.1500	0.1585	0.1511	0.1363	0.1509	6	AVG	#
Dichlorofluoromethane	0.3978	0.3786	0.3750	0.3998	0.3751	0.3910	0.3711	0.3841	3	AVG	
Trichlorofluoromethane	#0.2460	0.2719	0.2833	0.3103	0.3438	0.3260	0.3358	0.3024	12	AVG	#
Ethyl ether	0.2027	0.2306	0.2024	0.2340	0.2242	0.2369	0.2328	0.2234	7	AVG	
Freon 123a	0.2540	0.2646	0.2633	0.2867	0.2751	0.2818	0.2770	0.2718	4	AVG	
Acrolein	1.7968	1.7225	1.7714	1.8718	2.0764	2.0453	1.9189	1.8862	7	AVG	
1,1-Dichloroethene	#0.1966	0.1928	0.2078	0.2066	0.1996	0.2091	0.2057	0.2026	3	AVG	#
1,1-Dichloroethene(2)	#0.0986	0.0985	0.1082	0.1052	0.1002	0.1058	0.1037	0.1029	4	AVG	#
Acetone	#0.6461	0.7186	0.7312	0.7516	0.8114	0.8447	0.8165	0.7600	9	AVG	#
Freon 113	#0.1495	0.1856	0.2166	0.2185	0.2168	0.2273	0.2217	0.2051	14	AVG	#
2-Propanol	0.6424	0.6163	0.7051	0.6089	0.6273	0.7051	0.6224	0.6468	6	AVG	
Methyl Iodide	0.3447	0.3454	0.3783	0.3749	0.3611	0.3806	0.3776	0.3661	4	AVG	
Carbon Disulfide	#0.6194	0.6031	0.6809	0.6893	0.6811	0.7270	0.7277	0.6755	7	AVG	#
Allyl Chloride	0.3412	0.3291	0.3413	0.3565	0.3386	0.3671	0.3624	0.3480	4	AVG	
Methyl Acetate	#0.2476	0.2279	0.2383	0.2277	0.2199	0.2353	0.2358	0.2332	4	AVG	#
Methylene Chloride	#0.4151	0.2891	0.2713	0.2530	0.2372	0.2494	0.2453	0.2801	22	1STDEG	#
t-Butyl alcohol	1.0667	0.9775	1.1061	1.0648	1.0433	1.1453	1.0403	1.0634	5	AVG	
Acrylonitrile	0.0981	0.1059	0.1122	0.1192	0.1319	0.1331	0.1326	0.1190	12	AVG	
trans-1,2-Dichloroethene	#0.2273	0.2219	0.2367	0.2344	0.2241	0.2361	0.2313	0.2303	3	AVG	#
Methyl Tertiary Butyl Ether	#0.7108	0.7360	0.7754	0.7585	0.7239	0.7667	0.7500	0.7459	3	AVG	#
n-Hexane	0.2844	0.3261	0.3655	0.3332	0.3689	0.3835	0.3713	0.3476	10	AVG	
1,1-Dichloroethane	#0.4056	0.4027	0.4420	0.4415	0.4190	0.4329	0.4279	0.4245	4	AVG	#
di-Isopropyl ether	0.7584	0.7733	0.8298	0.8214	0.7840	0.8321	0.8062	0.8007	4	AVG	
2-Chloro-1,3-butadiene	0.3252	0.3317	0.3681	0.3730	0.3644	0.3847	0.3768	0.3605	6	AVG	
Ethyl t-butyl ether	0.7322	0.7492	0.7973	0.7895	0.7508	0.8035	0.7809	0.7719	4	AVG	
cis-1,2-Dichloroethene	#0.2318	0.2443	0.2637	0.2613	0.2505	0.2646	0.2578	0.2534	5	AVG	#
2-Butanone	#0.1389	0.1295	0.1357	0.1483	0.1652	0.1616	0.1608	0.1486	10	AVG	#
2,2-Dichloropropane	0.2938	0.2946	0.3218	0.3311	0.3230	0.3451	0.3393	0.3212	6	AVG	
Propionitrile	1.3464	1.3035	1.4326	1.3548	1.2501	1.3991	1.3431	1.3471	4	AVG	
Methacrylonitrile	0.1272	0.1272	0.1401	0.1373	0.1291	0.1379	0.1369	0.1337	4	AVG	
Bromochloromethane	0.1095	0.1196	0.1270	0.1286	0.1214	0.1312	0.1307	0.1240	6	AVG	
Tetrahydrofuran	0.9971	0.9847	0.9987	1.0596	1.1584	1.2075	1.1943	1.0858	9	AVG	
Chloroform	#0.3810	0.3907	0.4139	0.4102	0.3933	0.4181	0.4119	0.4027	4	AVG	#
1,1,1-Trichloroethane	#0.3884	0.3816	0.3856	0.3932	0.3599	0.3829	0.3830	0.3821	3	AVG	#
Cyclohexane	#0.3462	0.3948	0.4482	0.4384	0.4464	0.4730	0.4645	0.4302	10	AVG	#
Cyclohexane(2)	#0.2836	0.3215	0.3651	0.3521	0.3583	0.3814	0.3737	0.3480	10	AVG	#
Cyclohexane(3)	#0.1076	0.1180	0.1350	0.1310	0.1335	0.1440	0.1418	0.1301	10	AVG	#
1,1-Dichloropropene	0.3060	0.2922	0.3237	0.3246	0.3147	0.3342	0.3294	0.3178	5	AVG	
Carbon Tetrachloride	#0.2506	0.2492	0.2867	0.2909	0.2921	0.3111	0.3131	0.2848	9	AVG	#
Isobutyl Alcohol	0.3542	0.3344	0.3795	0.3536	0.3473	0.3764	0.3491	0.3563	5	AVG	
Benzene	#0.9623	0.9472	1.0312	1.0063	0.9566	1.0143	0.9890	0.9867	3	AVG	#
1,2-Dichloroethane	#0.2918	0.3072	0.3187	0.3146	0.3005	0.3231	0.3218	0.3111	4	AVG	#
1,2-Dichloroethane(2)	#0.0227	0.0292	0.0317	0.0310	0.0302	0.0321	0.0325	0.0299	11	AVG	#<-
t-Amyl methyl ether	0.6881	0.7250	0.7741	0.7630	0.7274	0.7794	0.7562	0.7447	4	AVG	
n-Heptane	0.3105	0.3530	0.3827	0.3302	0.3936	0.4105	0.3919	0.3675	10	AVG	
n-Butanol	0.2775	0.2852	0.3237	0.3190	0.3178	0.3504	0.3238	0.3139	8	AVG	
Trichloroethene	#0.2503	0.2342	0.2560	0.2559	0.2445	0.2601	0.2588	0.2514	4	AVG	#
Methylcyclohexane	#0.3555	0.4082	0.4347	0.4524	0.4451	0.4823	0.4758	0.4363	10	AVG	#

Compounds with required minimum RRF.
All compounds must meet a maximum %RSD of 20.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 Calibration Date(s): 01/27/15 01/27/15

Heated Purge: (Y/N) Y Calibration Times: 13:13 17:39

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

LAB FILE ID: RRF 1 = lj27i07.d RRF 4 = lj27i06.d RRF 10= lj27i05.d
RRF 20= lj27i09.d RRF 50= lj27i08.d RRF100= lj27i02.d RRF300= lj27i01.d

COMPOUND	RRF 1	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	$\overline{RRF}$	% RSD	CAL. METHOD	
Methylcyclohexane(2)	#0.1603	0.1862	0.1937	0.2017	0.1992	0.2173	0.2150	0.1962	10	AVG	#
1,2-Dichloropropane	#0.2382	0.2529	0.2705	0.2671	0.2574	0.2757	0.2731	0.2621	5	AVG	#
Dibromomethane	0.1493	0.1595	0.1676	0.1632	0.1582	0.1718	0.1718	0.1630	5	AVG	
1,4-Dioxane	0.0960	0.1017	0.1143	0.1091	0.1027	0.1167	0.1106	0.1073	7	AVG	
Methyl Methacrylate	0.1869	0.2051	0.2306	0.2208	0.2170	0.2361	0.2358	0.2189	8	AVG	
Bromodichloromethane	#0.2510	0.2740	0.3043	0.3067	0.3043	0.3332	0.3403	0.3020	10	AVG	#
2-Nitropropane	0.0516	0.0538	0.0598	0.0699	0.0849	0.0830	0.0858	0.0698	21	2NDDEG	
2-Chloroethyl Vinyl Ether	0.1599	0.1749	0.1915	0.1975	0.1952	0.2055	0.2066	0.1901	9	AVG	
cis-1,3-Dichloropropene	#0.3048	0.3429	0.3946	0.3930	0.3900	0.4274	0.4311	0.3834	12	AVG	#
4-Methyl-2-pentanone	#0.2753	0.2764	0.2834	0.3477	0.3916	0.3532	0.3449	0.3246	14	AVG	#
Toluene	#0.8034	0.7842	0.8421	0.8323	0.7964	0.8261	0.8006	0.8122	3	AVG	#
trans-1,3-Dichloropropene	#0.3453	0.4000	0.4633	0.4632	0.4743	0.5217	0.5256	0.4562	14	AVG	#
Ethyl Methacrylate	0.4340	0.4818	0.5441	0.5325	0.5283	0.5699	0.5549	0.5208	9	AVG	
1,1,2-Trichloroethane	#0.2814	0.3048	0.3220	0.3079	0.2990	0.3240	0.3121	0.3073	5	AVG	#
Tetrachloroethene	#0.3433	0.3260	0.3529	0.3475	0.3436	0.3569	0.3498	0.3457	3	AVG	#
1,3-Dichloropropane	0.4987	0.5118	0.5576	0.5350	0.5229	0.5577	0.5497	0.5333	4	AVG	
2-Hexanone	#0.2542	0.2606	0.2698	0.3468	0.3938	0.3319	0.3282	0.3122	17	AVG	#
Dibromochloromethane	#0.2368	0.2665	0.3139	0.3102	0.3246	0.3584	0.3573	0.3097	14	AVG	#
1,2-Dibromoethane	#0.2986	0.3090	0.3427	0.3319	0.3278	0.3498	0.3476	0.3296	6	AVG	#
1-Chlorohexane	0.4693	0.4500	0.3807	0.4521	0.4445	0.4611	0.4491	0.4438	7	AVG	
Chlorobenzene	#0.8638	0.8559	0.9360	0.9131	0.8746	0.9184	0.8779	0.8914	3	AVG	#
1,1,1,2-Tetrachloroethane	0.2418	0.2648	0.3008	0.3041	0.3038	0.3231	0.3003	0.2912	10	AVG	
Ethylbenzene	#1.5523	1.4924	1.6427	1.5958	1.5505	1.6054	1.4532	1.5560	4	AVG	#
m+p-Xylene	#0.5951	0.5803	0.6414	0.6212	0.6008	0.6179	0.5463	0.6004	5	AVG	#
o-Xylene	#0.5726	0.5629	0.6246	0.6108	0.5872	0.6055	0.5464	0.5871	5	AVG	#
Styrene	#0.8708	0.9341	1.0502	1.0301	1.0064	1.0500	0.9414	0.9833	7	AVG	#
Bromoform	#0.1832	0.1898	0.2249	0.2258	0.2441	0.2739	0.2759	0.2311	16	AVG	#
Isopropylbenzene	#1.5882	1.4926	1.6444	1.5722	1.5741	1.6212	1.5047	1.5711	4	AVG	#
Cyclohexanone	0.3840	0.3773	0.4056	0.3774	0.3753	0.4237	0.4407	0.3977	7	AVG	
Bromobenzene	0.7220	0.7287	0.7799	0.7468	0.7422	0.7517	0.6669	0.7340	5	AVG	
1,1,2,2-Tetrachloroethane	#0.8790	0.8768	0.9644	0.9189	0.9103	0.9343	0.8473	0.9044	4	AVG	#
1,2,3-Trichloropropane	0.2667	0.2568	0.2763	0.2592	0.2582	0.2673	0.2484	0.2618	3	AVG	
trans-1,4-Dichloro-2-butene	0.1635	0.1893	0.2343	0.2201	0.2306	0.2450	0.2187	0.2145	13	AVG	
n-Propylbenzene	3.7516	3.4574	3.7333	3.4704	3.5695	3.5732	3.1736	3.5327	6	AVG	
2-Chlorotoluene	0.7102	0.6639	0.7177	0.6919	0.6983	0.7147	0.6691	0.6951	3	AVG	
4-Chlorotoluene	0.7173	0.7036	0.7594	0.7235	0.7261	0.7418	0.6965	0.7240	3	AVG	
1,3,5-Trimethylbenzene	2.5701	2.4676	2.6418	2.5081	2.5726	2.6003	2.3332	2.5277	4	AVG	
tert-Butylbenzene	0.5743	0.4993	0.5248	0.4877	0.5253	0.5326	0.4984	0.5204	6	AVG	
Pentachloroethane	0.3434	0.3845	0.4223	0.4431	0.4429	0.4730	0.4308	0.4200	10	AVG	
1,2,4-Trimethylbenzene	2.6751	2.5182	2.7130	2.5559	2.6150	2.6264	2.2624	2.5666	6	AVG	
sec-Butylbenzene	3.6033	3.1513	3.4005	3.0063	3.3284	3.3357	2.9167	3.2489	7	AVG	
1,3-Dichlorobenzene	#1.5384	1.4251	1.5111	1.4213	1.4182	1.4077	1.1793	1.4144	8	AVG	#
p-Isopropyltoluene	3.0895	2.7643	2.9668	2.6456	2.8781	2.8527	2.3867	2.7977	8	AVG	
1,4-Dichlorobenzene	#1.6030	1.4757	1.5702	1.4690	1.4534	1.4395	1.2167	1.4611	8	AVG	#
1,2,3-Trimethylbenzene	2.7938	2.6171	2.7357	2.7444	2.6460	2.7024	2.3141	2.6505	6	AVG	
Benzyl Chloride	1.1845	1.4075	1.6964	1.7400	1.8906	2.0210	1.9169	1.6938	18	AVG	
1,3-Diethylbenzene	2.0864	1.6883	1.7277	1.7558	1.7100	1.7536	1.5644	1.7552	9	AVG	
1,4-Diethylbenzene	2.1544	1.7265	1.7672	1.7827	1.7245	1.7622	1.5473	1.7807	10	AVG	
1,2-Dichlorobenzene	#1.5697	1.4372	1.4960	1.4199	1.4119	1.4268	1.2379	1.4285	7	AVG	#
n-Butylbenzene	1.8032	1.3997	1.4974	1.3039	1.4656	1.4696	1.2630	1.4575	12	AVG	
1,2-Diethylbenzene	1.6987	1.3755	1.4004	1.4143	1.3595	1.3969	1.2192	1.4092	10	AVG	
1,2-Dibromo-3-chloropropane	#0.1566	0.1656	0.1837	0.1796	0.1907	0.2028	0.1987	0.1825	9	AVG	#

Compounds with required minimum RRF.
All compounds must meet a maximum %RSD of 20.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 Calibration Date(s): 01/27/15 01/27/15

Heated Purge: (Y/N) Y Calibration Times: 13:13 17:39

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

LAB FILE ID: RRF 1 = lj27i07.d RRF 4 = lj27i06.d RRF 10= lj27i05.d
RRF 20= lj27i09.d RRF 50= lj27i08.d RRF100= lj27i02.d RRF300= lj27i01.d

COMPOUND	RRF 1	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	$\overline{RRF}$	% RSD	CAL. METHOD
1,3,5-Trichlorobenzene	1.8564	1.1268	1.1803	1.0513	1.1535	1.1822	1.0667	1.2310	23	2NDDEG
Hexachloroethane	0.2321	0.3184	0.3305	0.3838	0.3969	0.4263	0.4218	0.3585	19	AVG
1,2,4-Trichlorobenzene	#1.9591	1.1212	1.1301	1.0249	1.0957	1.1402	1.0171	1.2126	27	2NDDEG #
Hexachlorobutadiene	0.9979	0.4969	0.5029	0.4175	0.5116	0.5425	0.4850	0.5649	34	2NDDEG
Naphthalene	3.9416	3.2126	3.3057	3.1441	3.1659	3.2834	2.7881	3.2631	11	AVG
1,2,3-Trichlorobenzene	2.1169	1.1050	1.0730	0.9888	1.0379	1.0858	0.9612	1.1955	34	2NDDEG
2-Methylnaphthalene	3.8058	2.0065	1.8346	1.8144	1.7571	2.0424	1.5946	2.1222	36	2NDDEG
Dibromofluoromethane	0.2357	0.2386	0.2366	0.2414	0.2378	0.2408	0.2415	0.2389	1	AVG
Dibromofluoromethane(2)	0.2401	0.2442	0.2397	0.2454	0.2451	0.2466	0.2460	0.2439	1	AVG
1,2-Dichloroethane-d4	0.0588	0.0591	0.0589	0.0602	0.0584	0.0595	0.0590	0.0591	1	AVG
1,2-Dichloroethane-d4(2)	0.2768	0.2792	0.2766	0.2814	0.2744	0.2772	0.2791	0.2778	1	AVG
1,2-Dichloroethane-d4(3)	0.0372	0.0213	0.0308	0.0330	0.0371	0.0380	0.0378	0.0336	18	AVG
Toluene-d8	1.2902	1.2955	1.2835	1.2893	1.3082	1.3019	1.3441	1.3018	2	AVG
Toluene-d8(2)	0.8492	0.8507	0.8404	0.8481	0.8626	0.8541	0.8860	0.8559	2	AVG
4-Bromofluorobenzene	0.5119	0.5115	0.5099	0.5148	0.5112	0.5213	0.5474	0.5183	3	AVG
4-Bromofluorobenzene(2)	0.4163	0.4166	0.4177	0.4225	0.4161	0.4268	0.4471	0.4233	3	AVG

Average %RSD 8

Compounds with required minimum RRF.
All compounds must meet a maximum %RSD of 20.

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09915.i/15jan27i.b/lj27i01.d	VSTD300
/chem/HP09915.i/15jan27i.b/lj27i02.d	VSTD100
/chem/HP09915.i/15jan27i.b/lj27i05.d	VSTD010
/chem/HP09915.i/15jan27i.b/lj27i06.d	VSTD004
/chem/HP09915.i/15jan27i.b/lj27i07.d	VSTD001
/chem/HP09915.i/15jan27i.b/lj27i08.d	VSTD050
/chem/HP09915.i/15jan27i.b/lj27i09.d	VSTD020

Area Summary

File ID:

Internal Standard Name	lj27i01.d	lj27i02.d	lj27i05.d	lj27i06.d	lj27i07.d	lj27i08.d	lj27i09.d	Avg. Area	%RS
t-Butyl alcohol-d10	218872	223313	219618	217223	219014	250743	216574	223622	5
Fluorobenzene	1169135	1218088	1207726	1216365	1209056	1313190	1173837	1215342	4
Chlorobenzene-d5	883970	926764	924005	919248	908107	986664	895971	920676	4
1,4-Dichlorobenzene-d4	495083	503423	491970	486037	484912	519597	481154	494597	3

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

Internal Standard Name	lj27i01.d	lj27i02.d	lj27i05.d	lj27i06.d	lj27i07.d	lj27i08.d	lj27i09.d	Avg. RT
t-Butyl alcohol-d10	4.240	4.240	4.234	4.231	4.228	4.237	4.240	4.236
Fluorobenzene	7.745	7.745	7.742	7.742	7.739	7.742	7.742	7.742
Chlorobenzene-d5	11.208	11.208	11.208	11.208	11.208	11.208	11.208	11.208
1,4-Dichlorobenzene-d4	13.089	13.089	13.089	13.089	13.089	13.089	13.089	13.089

* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 02/03/2015 at 19:07.

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 ICV Date: 01/27/15 Time: 18:23

Lab File ID: lj27v01.d Init. Calib. Date(s): 01/27/15 01/27/15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
#	Dichlorodifluoromethane	0.2841	0.2520	17.74	20	-11	#
#	Chloromethane	0.3013	0.2576	17.10	20	-14	#
#	Vinyl Chloride	0.2792	0.2464	17.64	20	-12	#
#	Bromomethane	0.1666	0.1313	15.76	20	-21	#
#	Chloroethane	0.1509	0.1218	16.15	20	-19	#
	Dichlorofluoromethane	0.3841	0.3706	19.30	20	-4	
#	Trichlorofluoromethane	0.3024	0.2789	18.45	20	-8	#
	Ethyl ether	0.2234	0.2325	20.82	20	4	
	Freon 123a	0.2718	0.2766	20.35	20	2	
	Acrolein	1.8862	2.0707	164.68	150	10	
#	1,1-Dichloroethene	0.2026	0.2080	20.53	20	3	#
#	Acetone	0.7600	0.8836	174.39	150	16	#
#	Freon 113	0.2051	0.2242	21.86	20	9	#
	2-Propanol	0.6468	0.8132	188.59	150	26	
	Methyl Iodide	0.3661	0.4062	22.19	20	11	
#	Carbon Disulfide	0.6755	0.7324	21.68	20	8	#
	Allyl Chloride	0.3480	0.3860	22.18	20	11	
#	Methyl Acetate	0.2332	0.2477	21.24	20	6	#
#	Methylene Chloride	0.2801	0.2598	20.67	20	3	#
	t-Butyl alcohol	1.0634	1.4240	267.82	200	34	<-
	Acrylonitrile	0.1190	0.1323	111.16	100	11	
#	trans-1,2-Dichloroethene	0.2303	0.2432	21.13	20	6	#
#	Methyl Tertiary Butyl Ether	0.7459	0.8074	21.65	20	8	#
	n-Hexane	0.3476	0.4104	23.62	20	18	
#	1,1-Dichloroethane	0.4245	0.4366	20.57	20	3	#
	di-Isopropyl ether	0.8007	0.8897	22.22	20	11	
	2-Chloro-1,3-butadiene	0.3605	0.3730	20.69	20	3	
	Ethyl t-butyl ether	0.7719	0.8318	21.55	20	8	
#	cis-1,2-Dichloroethene	0.2534	0.2678	21.14	20	6	#
#	2-Butanone	0.1486	0.1661	167.70	150	12	#
	2,2-Dichloropropane	0.3212	0.3225	20.08	20	0	
	Propionitrile	1.3471	1.5830	176.27	150	18	
	Methacrylonitrile	0.1337	0.1538	172.65	150	15	
	Bromochloromethane	0.1240	0.1317	21.24	20	6	
	Tetrahydrofuran	1.0858	1.2140	111.81	100	12	
#	Chloroform	0.4027	0.4179	20.75	20	4	#

Compounds with required minimum RRF.
Maximum % Drift = 30 %

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 ICV Date: 01/27/15 Time: 18:23

Lab File ID: lj27v01.d Init. Calib. Date(s): 01/27/15 01/27/15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

			ACTUAL	TRUE	%	
COMPOUND	RRF	RRF	CONC.	CONC.	DRIFT	
# 1,1,1-Trichloroethane	0.3821	0.3756	19.66	20	-2	#
# Cyclohexane	0.4302	0.4722	21.95	20	10	#
1,1-Dichloropropene	0.3178	0.3400	21.40	20	7	
# Carbon Tetrachloride	0.2848	0.2937	20.63	20	3	#
Isobutyl Alcohol	0.3563	0.4664	654.44	500	31	<-
# Benzene	0.9867	1.0192	20.66	20	3	#
# 1,2-Dichloroethane	0.3111	0.3249	20.89	20	4	#
t-Amyl methyl ether	0.7447	0.8288	22.26	20	11	
n-Heptane	0.3675	0.4103	22.33	20	12	
n-Butanol	0.3139	0.4263	1357.89	1000	36	<-
# Trichloroethene	0.2514	0.2593	20.63	20	3	#
# Methylcyclohexane	0.4363	0.4615	21.16	20	6	#
# 1,2-Dichloropropane	0.2621	0.2707	20.65	20	3	#
Dibromomethane	0.1630	0.1646	20.19	20	1	
1,4-Dioxane	0.1073	0.1349	628.79	500	26	
Methyl Methacrylate	0.2189	0.2569	23.47	20	17	
# Bromodichloromethane	0.3020	0.3035	20.10	20	1	#
2-Nitropropane	0.0698	0.0698	20.03	20	0	
2-Chloroethyl Vinyl Ether	0.1901	0.2059	21.66	20	8	
# cis-1,3-Dichloropropene	0.3834	0.4027	21.01	20	5	#
# 4-Methyl-2-pentanone	0.3246	0.3576	110.14	100	10	#
# Toluene	0.8122	0.8552	21.06	20	5	#
# trans-1,3-Dichloropropene	0.4562	0.4913	21.54	20	8	#
Ethyl Methacrylate	0.5208	0.6917	26.56	20	33	<-
# 1,1,2-Trichloroethane	0.3073	0.3217	20.94	20	5	#
# Tetrachloroethene	0.3457	0.3597	20.81	20	4	#
1,3-Dichloropropane	0.5333	0.5545	20.79	20	4	
# 2-Hexanone	0.3122	0.3501	112.14	100	12	#
# Dibromochloromethane	0.3097	0.3272	21.13	20	6	#
# 1,2-Dibromoethane	0.3296	0.3533	21.44	20	7	#
1-Chlorohexane	0.4438	0.4588	20.68	20	3	
# Chlorobenzene	0.8914	0.9310	20.89	20	4	#
1,1,1,2-Tetrachloroethane	0.2912	0.3130	21.49	20	7	
# Ethylbenzene	1.5560	1.6448	21.14	20	6	#
# m+p-Xylene	0.6004	0.6421	42.77	40	7	#
# o-Xylene	0.5871	0.6296	21.44	20	7	#

Compounds with required minimum RRF.
Maximum % Drift = 30 %

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 ICV Date: 01/27/15 Time: 18:23

Lab File ID: lj27v01.d Init. Calib. Date(s): 01/27/15 01/27/15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
#	Styrene	0.9833	1.0738	21.84	20	9	#
#	Bromoform	0.2311	0.2302	19.92	20	0	#
#	Isopropylbenzene	1.5711	1.6656	21.20	20	6	#
	Cyclohexanone	0.3977	0.3854	484.49	500	-3	
	Bromobenzene	0.7340	0.7821	21.31	20	7	
#	1,1,2,2-Tetrachloroethane	0.9044	0.9436	20.87	20	4	#
	1,2,3-Trichloropropane	0.2618	0.2771	21.16	20	6	
	trans-1,4-Dichloro-2-butene	0.2145	0.3026	141.09	100	41	<-
	n-Propylbenzene	3.5327	3.7430	21.19	20	6	
	2-Chlorotoluene	0.6951	0.7282	20.95	20	5	
	4-Chlorotoluene	0.7240	0.7596	20.98	20	5	
	1,3,5-Trimethylbenzene	2.5277	2.6854	21.25	20	6	
	tert-Butylbenzene	0.5204	0.5421	20.84	20	4	
	Pentachloroethane	0.4200	0.4617	21.99	20	10	
	1,2,4-Trimethylbenzene	2.5666	2.7376	21.33	20	7	
	sec-Butylbenzene	3.2489	3.4441	21.20	20	6	
#	1,3-Dichlorobenzene	1.4144	1.4980	21.18	20	6	#
	p-Isopropyltoluene	2.7977	2.9468	21.07	20	5	
#	1,4-Dichlorobenzene	1.4611	1.5666	21.44	20	7	#
	1,2,3-Trimethylbenzene	2.6505	2.8021	21.14	20	6	
	Benzyl Chloride	1.6938	2.4668	29.13	20	46	<-
	1,3-Diethylbenzene	1.7552	1.7328	19.75	20	-1	
	1,4-Diethylbenzene	1.7807	1.8352	20.61	20	3	
#	1,2-Dichlorobenzene	1.4285	1.5034	21.05	20	5	#
	n-Butylbenzene	1.4575	1.5124	20.75	20	4	
	1,2-Diethylbenzene	1.4092	1.4775	20.97	20	5	
#	1,2-Dibromo-3-chloropropane	0.1825	0.1887	20.67	20	3	#
	1,3,5-Trichlorobenzene	1.2310	1.2029	20.41	20	2	
	Hexachloroethane	0.3585	0.3758	20.96	20	5	
#	1,2,4-Trichlorobenzene	1.2126	1.1499	20.22	20	1	#
	Hexachlorobutadiene	0.5649	0.5231	20.11	20	1	
	Naphthalene	3.2631	3.2952	20.20	20	1	
	1,2,3-Trichlorobenzene	1.1955	1.0759	19.77	20	-1	
	2-Methylnaphthalene	2.1222	1.8012	18.00	20	-10	

Average %Drift 9

Compounds with required minimum RRF.
Maximum % Drift = 30 %

SW-846 Method 8260C Calibration Verification Report

Instrument ID: HP09915.i

File ID: /chem/HP09915.i/15jan27y.b/lj27i07.d

Injection date and time: 27-JAN-2015 17:39

Last file update (date, time, and analyst ID): 04-Feb-2015 12:28 jml01693

Client ID: VSTD001 Lab ID: VSTD001

Target processing method: /chem/HP09915.i/15jan27y.b/m8260c5.m

Last method update (date, time, and analyst ID): 04-Feb-2015 14:03 cbs01947

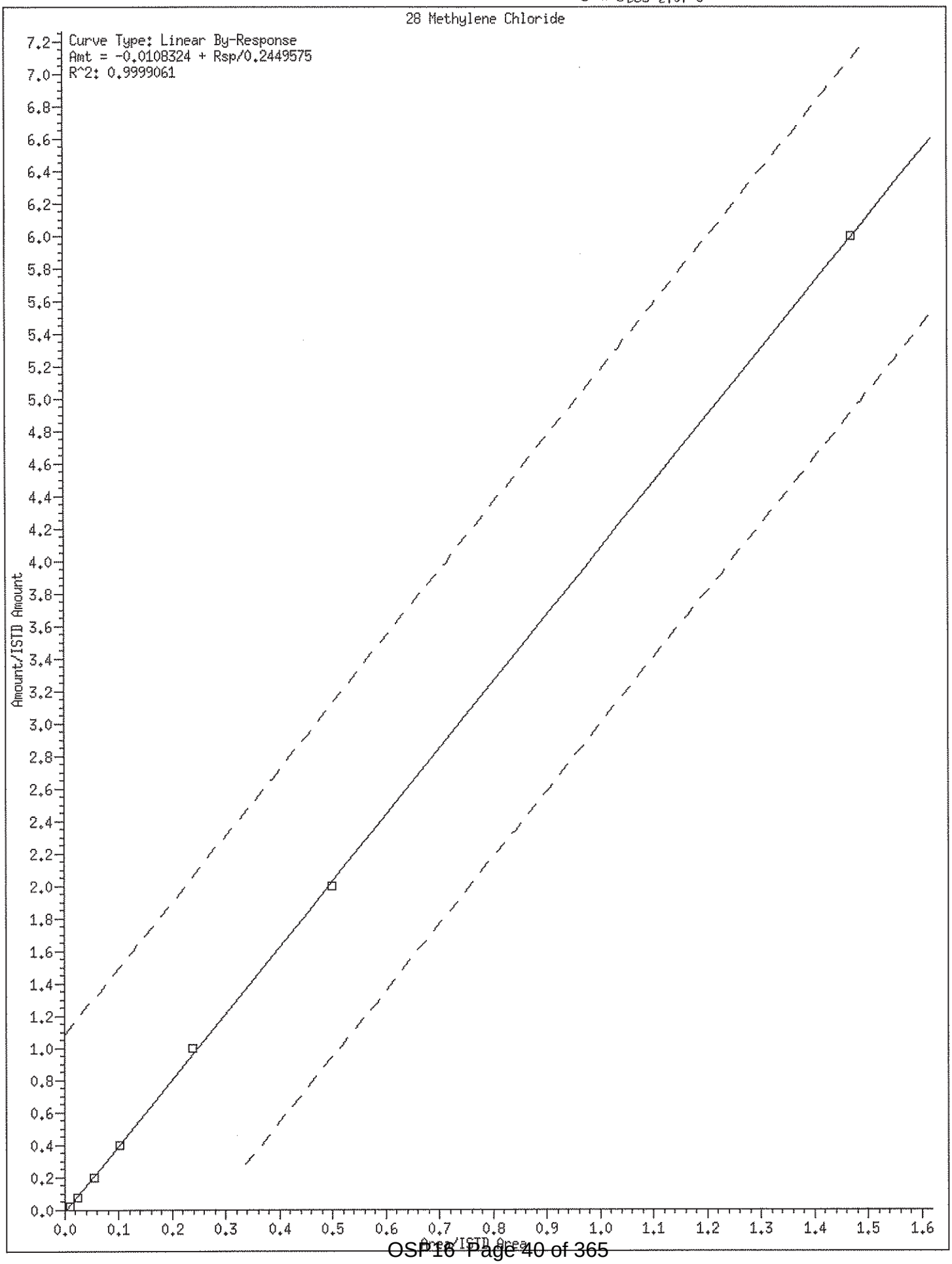
Curve Type Legend: 0 = Average Relative Response Factor 1 = Linear Equation
2 = Weighted Linear Equation 3 = Quadratic Equation
4 = Power Equation

Compound Name(Curve Type)	Theoretical Concetration	Calculated Concetration	Percent Drift
Dichlorodifluoromethane(0)	1.000	0.71969	-28.0
Freon 113(0)	1.000	0.72861	-27.1
Methylene Chloride(1)	1.000	1.15303	15.3
2-Nitropropane(3)	2.000	4.75429	137.7*
Benzyl Chloride(0)	1.000	0.69932	-30.1*
1,3,5-Trichlorobenzene(3)	1.000	2.40010	140.0*
1,2,4-Trichlorobenzene(3)	1.000	2.54218	154.2*
Hexachlorobutadiene(3)	1.000	3.46713	246.7*
1,2,3-Trichlorobenzene(3)	1.000	2.67168	167.2*
2-Methylnaphthalene(3)	1.000	4.11953	312.0*

An "*" indicates the recalculated concentration fails the ±30% criteria specified in section 11.4.5.6 of SW-846 Method 8260C.

Report generated on 02/09/2015 at 11:11

AKR2850 ~~02~~ 02/03/2015
③AKR2851 2131 S



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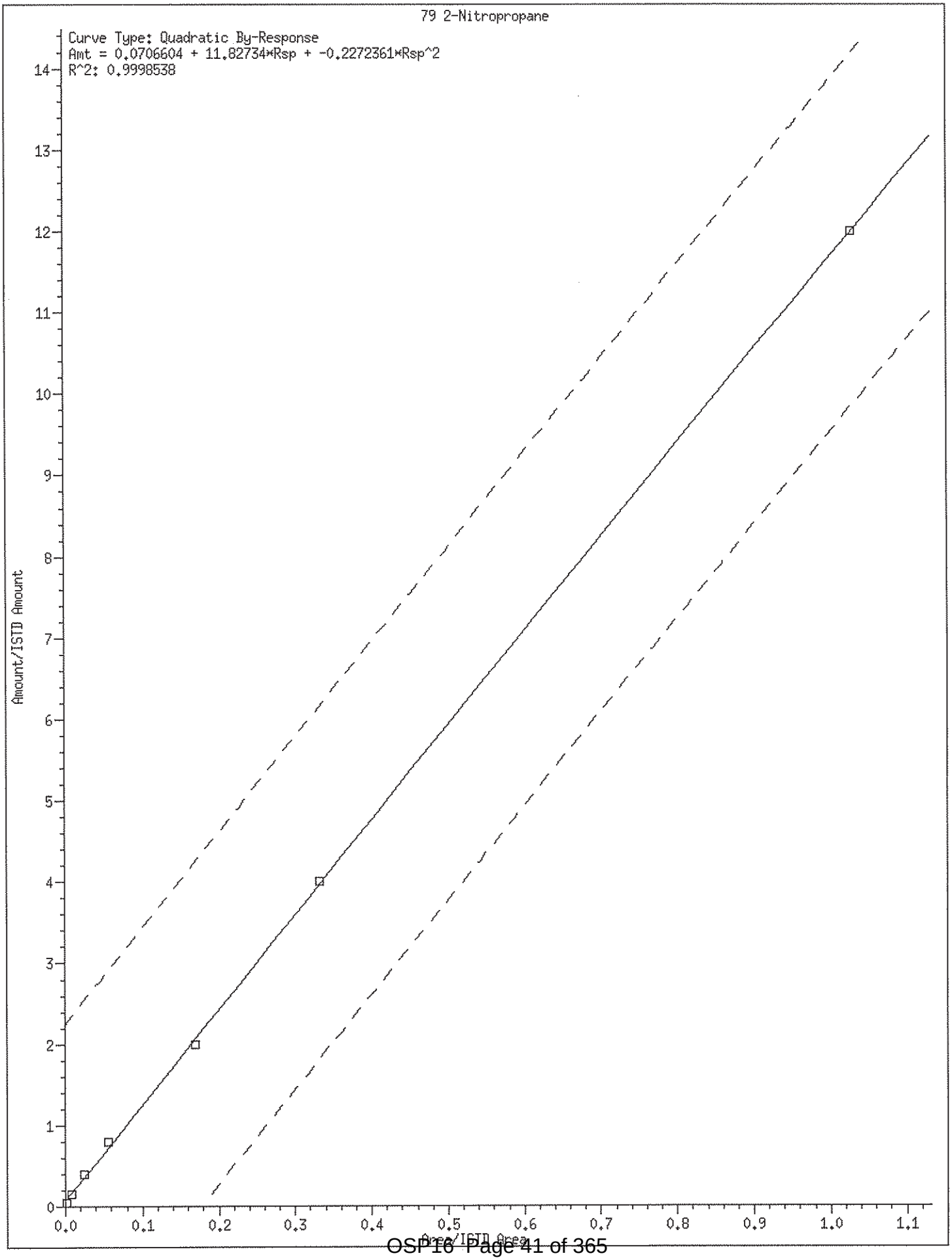
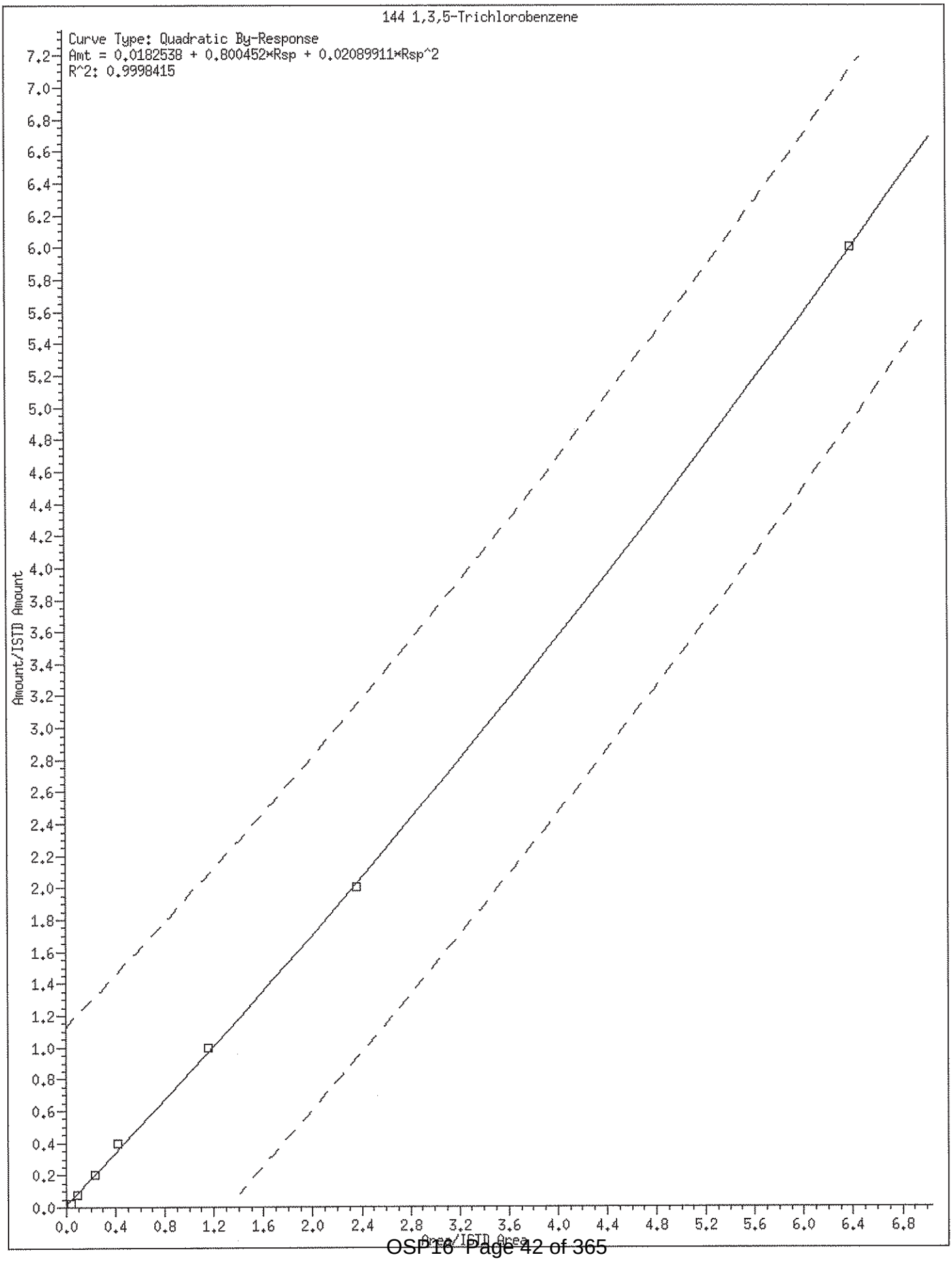
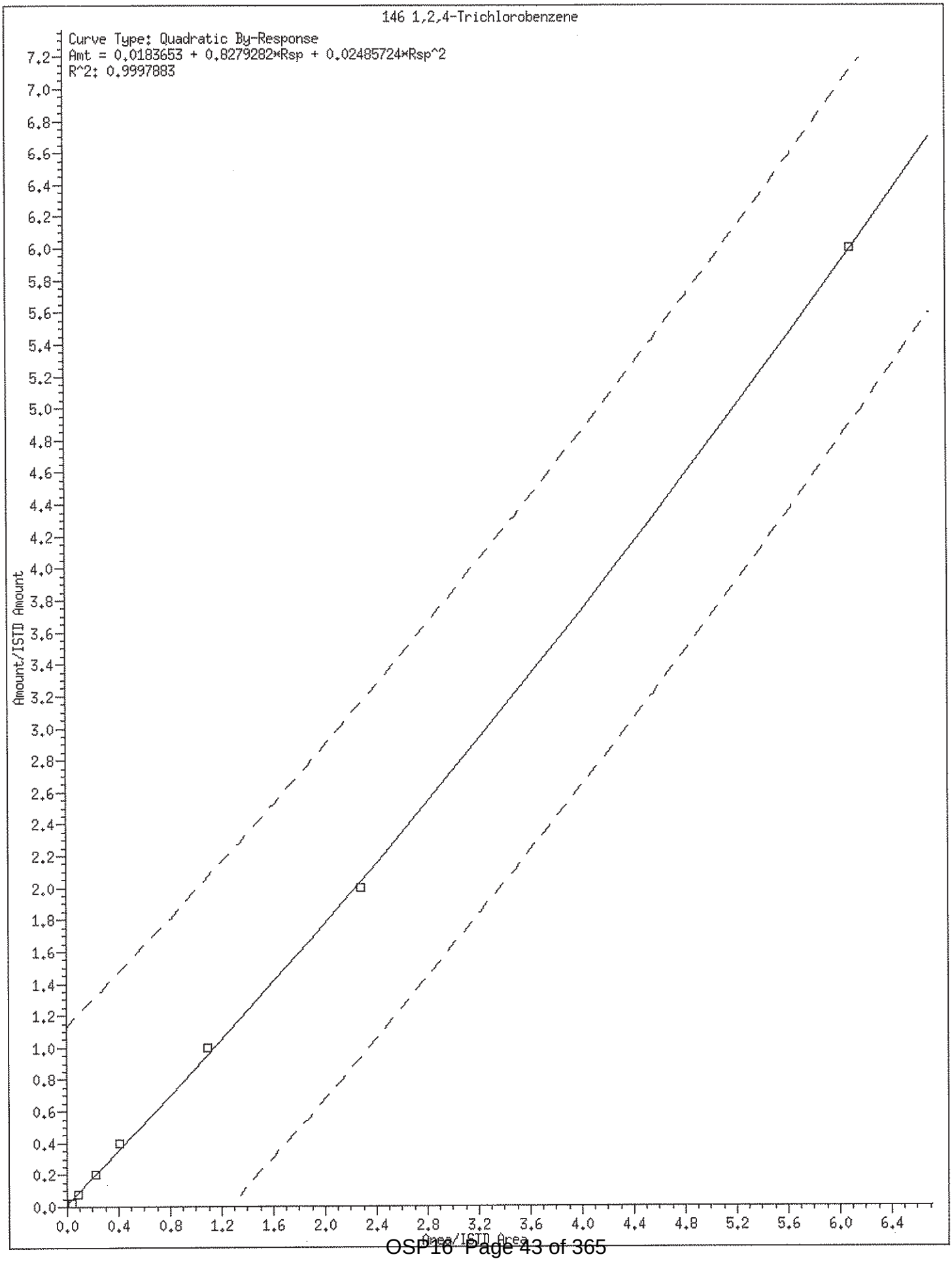


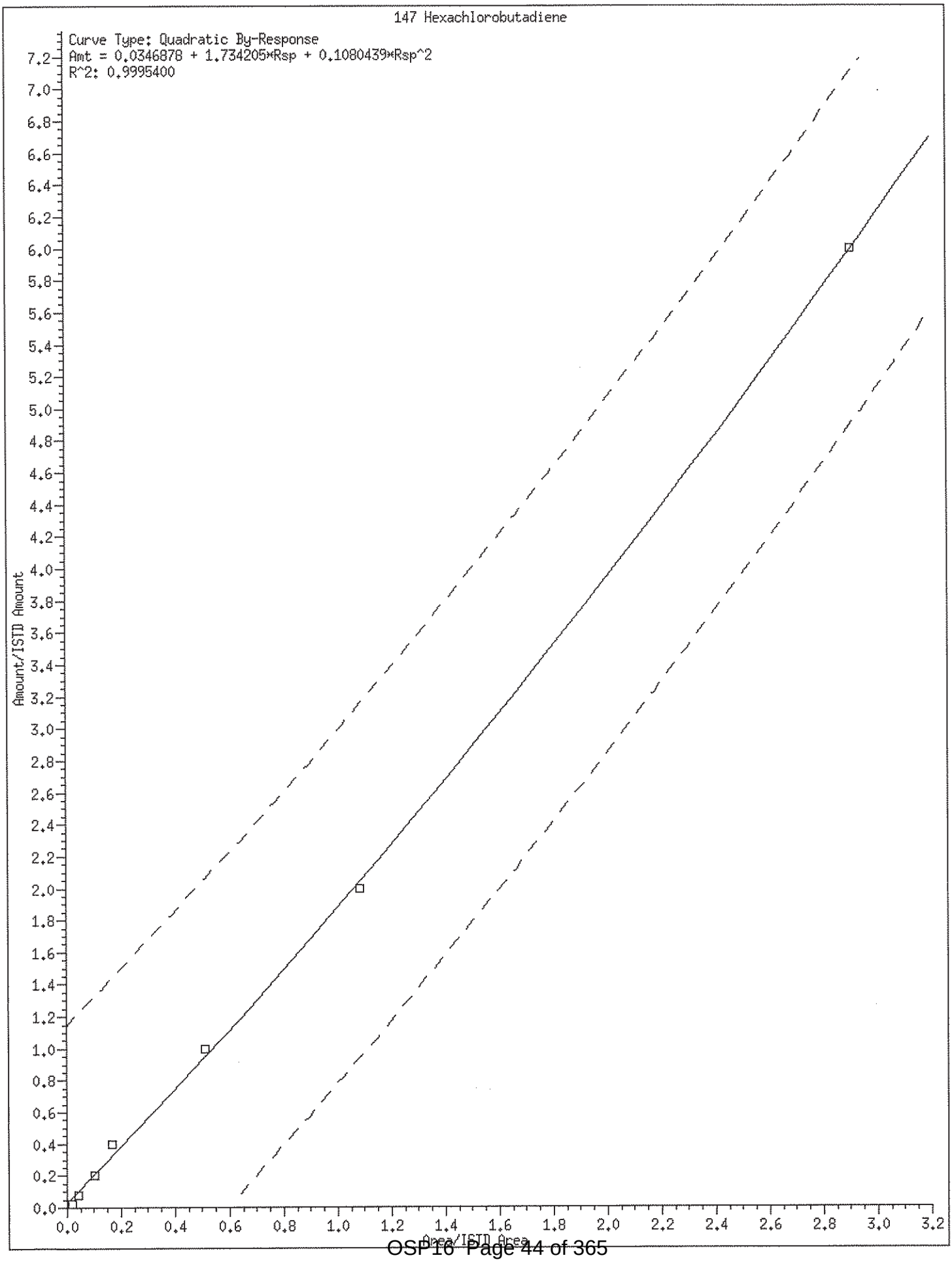
AKR2850 02/03/15



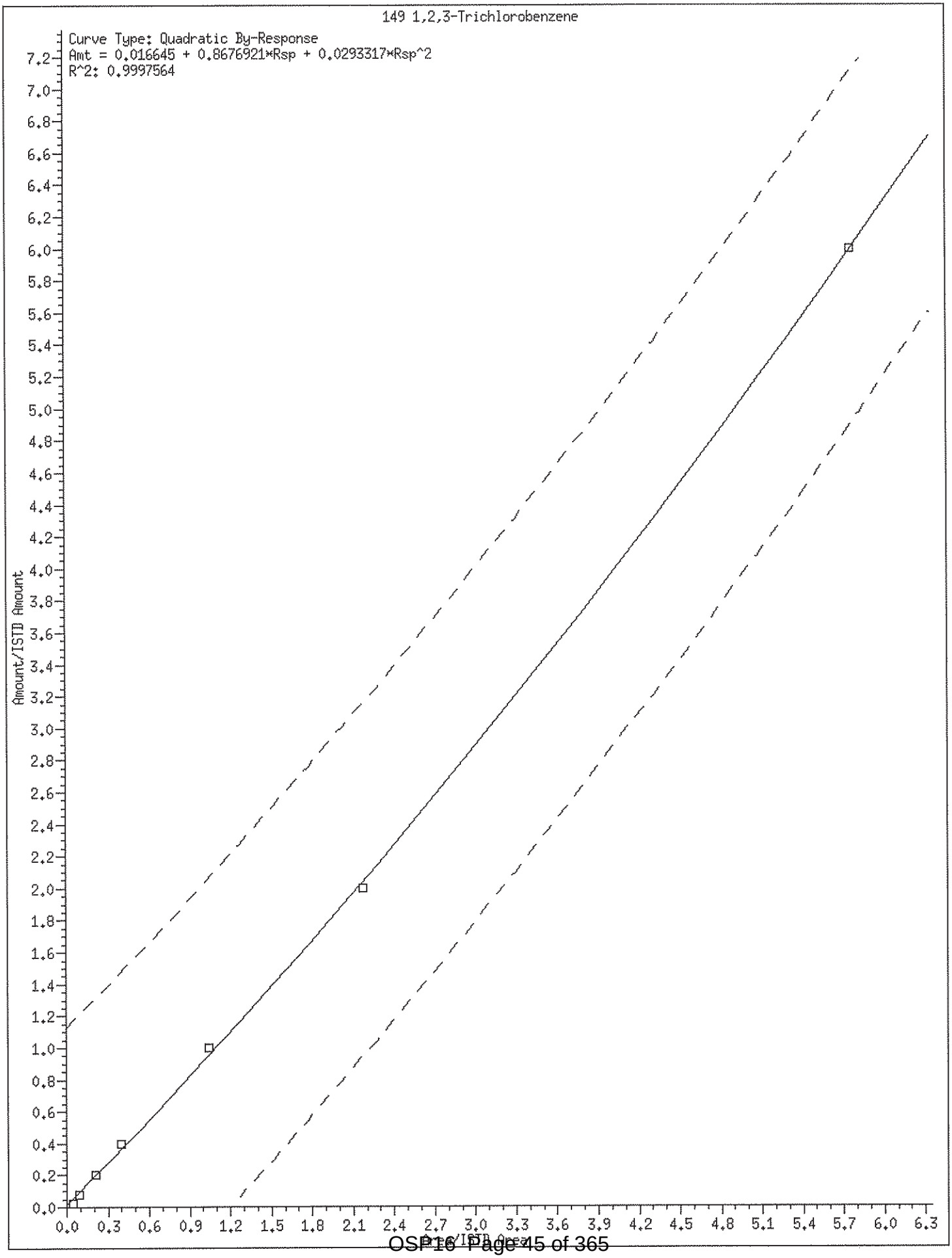
AKR2850 02/03/15



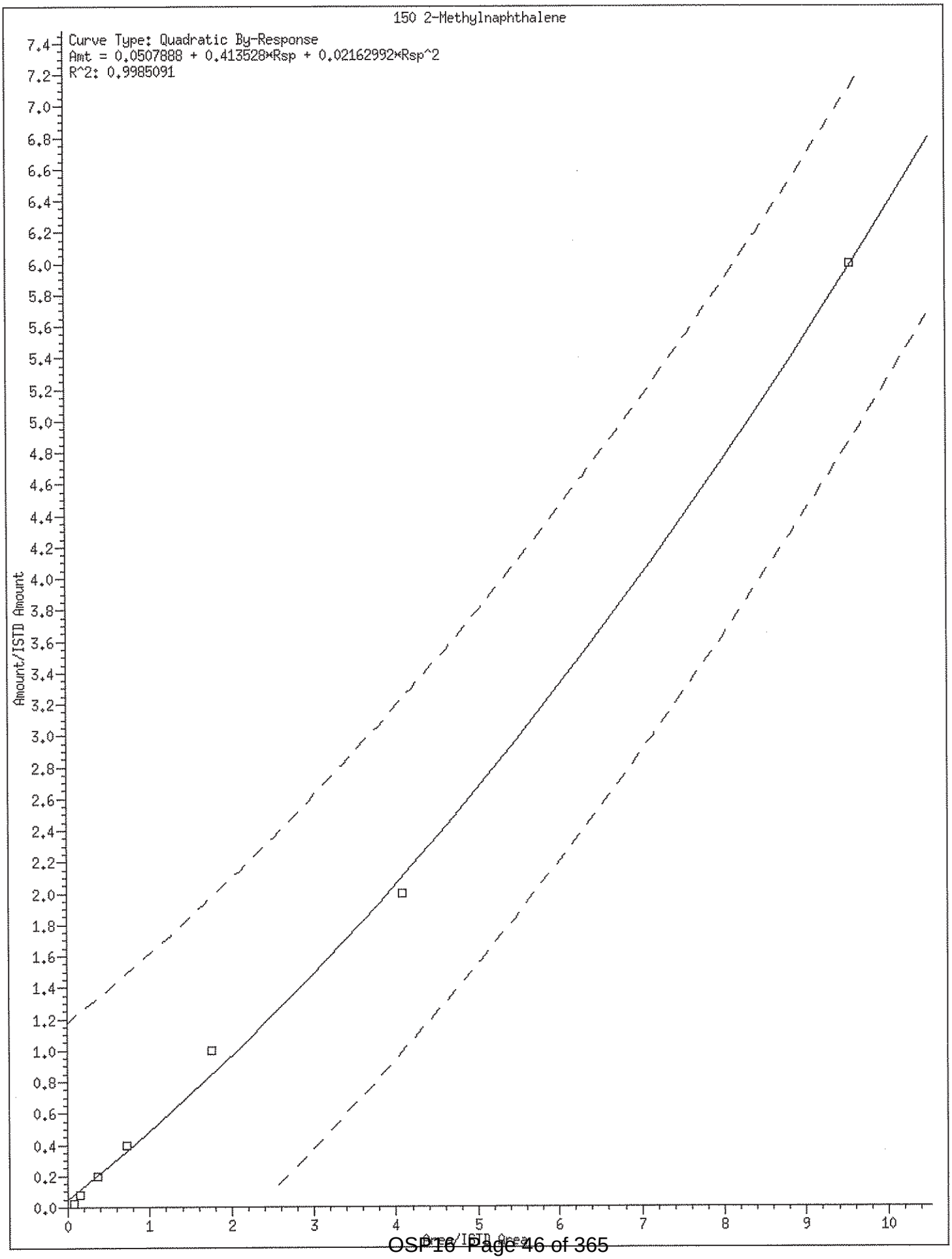
AKR2050 02/03/15



AR2280 02/03/15



ACR2950 02/03/15



Lancaster Laboratories

Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem/HP09915.i/15jan27i.b/lj27i07.d
/chem/HP09915.i/15jan27i.b/lj27i06.d
/chem/HP09915.i/15jan27i.b/lj27i05.d
/chem/HP09915.i/15jan27i.b/lj27i09.d
/chem/HP09915.i/15jan27i.b/lj27i08.d
/chem/HP09915.i/15jan27i.b/lj27i02.d
/chem/HP09915.i/15jan27i.b/lj27i01.d

File /chem/HP09915.i/15jan27i.b/lj27i08.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/HP09915.i/15mar11b.b/lm11c01.d

RT Summary

Internal Standard Name	File ID: lm11c01.d	ICAL RT	In Spec
t-Butyl alcohol-d10	4.218	4.237	Yes
Fluorobenzene	7.736	7.742	Yes
Chlorobenzene-d5	11.208	11.208	Yes
1,4-Dichlorobenzene-d4	13.086	13.089	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal Standard Name	File ID: lm11c01.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl alcohol-d10	240236	250743	125372	501486	Yes
Fluorobenzene	1365156	1313190	656595	2626380	Yes
Chlorobenzene-d5	1012761	986664	493332	1973328	Yes
1,4-Dichlorobenzene-d4	548398	519597	259798	1039194	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

report generated on 03/11/2015 at 14:24

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 Calibration Date: 03/11/15 Time: 14:02

Lab File ID: lm11c01.d Init. Calib. Date(s): 01/27/15 01/27/15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

			ACTUAL	TRUE	%	
COMPOUND	RRF	RRF50	CONC.	CONC.	DRIFT	
# Dichlorodifluoromethane	0.2841	0.3092	54.41	50	9	#
# Chloromethane	0.3013	0.2817	46.75	50	-6	#
# Vinyl Chloride	0.2792	0.2607	46.68	50	-7	#
# Bromomethane	0.1666	0.1723	51.71	50	3	#
# Chloroethane	0.1509	0.1450	48.05	50	-4	#
# Trichlorofluoromethane	0.3024	0.3144	51.97	50	4	#
| Ethyl ether	0.2234	0.2116	47.37	50	-5	|
| Acrolein	1.8862	2.0180	534.95	500	7	|
# 1,1-Dichloroethene	0.2026	0.1844	45.50	50	-9	#
# 1,1-Dichloroethene(2)	0.1029	0.0879	42.71	50	-15	#<-
# Acetone	0.7600	0.8513	112.02	100	12	#
# Freon 113	0.2051	0.1943	47.36	50	-5	#
| 2-Propanol	0.6468	0.6062	234.31	250	-6	|
| Methyl Iodide	0.3661	0.3534	48.26	50	-3	|
# Carbon Disulfide	0.6755	0.6036	44.68	50	-11	#
| Allyl Chloride	0.3480	0.2980	42.82	50	-14	|
# Methyl Acetate	0.2332	0.2071	44.41	50	-11	#
# Methylene Chloride	0.2801	0.2206	44.49	50	-11	#
| t-Butyl alcohol	1.0634	0.9795	230.27	250	-8	|
| Acrylonitrile	0.1190	0.1230	51.66	50	3	|
# trans-1,2-Dichloroethene	0.2303	0.2104	45.68	50	-9	#
# Methyl Tertiary Butyl Ether	0.7459	0.6509	43.63	50	-13	#
| n-Hexane	0.3476	0.3086	44.39	50	-11	|
# 1,1-Dichloroethane	0.4245	0.3867	45.55	50	-9	#
| di-Isopropyl ether	0.8007	0.6740	42.09	50	-16	|
| 2-Chloro-1,3-butadiene	0.3605	0.3078	42.68	50	-15	|
| Ethyl t-butyl ether	0.7719	0.6354	41.16	50	-18	|
# cis-1,2-Dichloroethene	0.2534	0.2352	46.40	50	-7	#
# 2-Butanone	0.1486	0.1571	105.74	100	6	#
| 2,2-Dichloropropane	0.3212	0.2668	41.53	50	-17	|
| Propionitrile	1.3471	1.2952	240.37	250	-4	|
| Methacrylonitrile	0.1337	0.1230	115.00	125	-8	|
| Bromochloromethane	0.1240	0.1250	50.40	50	1	|
| Tetrahydrofuran	1.0858	1.2368	113.91	100	14	|
# Chloroform	0.4027	0.3630	45.07	50	-10	#
# 1,1,1-Trichloroethane	0.3821	0.3109	40.68	50	-19	#

Compounds with required minimum RRF.
All compounds must meet a maximum % Drift of 20.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 Calibration Date: 03/11/15 Time: 14:02

Lab File ID: lm11c01.d Init. Calib. Date(s): 01/27/15 01/27/15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

			ACTUAL	TRUE	%	
COMPOUND	RRF	RRF50	CONC.	CONC.	DRIFT	
# Cyclohexane	0.4302	0.3628	42.17	50	-16	#
# Cyclohexane(2)	0.3480	0.3071	44.13	50	-12	#
# Cyclohexane(3)	0.1301	0.1126	43.24	50	-14	#
1,1-Dichloropropene	0.3178	0.2782	43.76	50	-12	
# Carbon Tetrachloride	0.2848	0.2636	46.27	50	-7	#
Isobutyl Alcohol	0.3563	0.3405	597.19	625	-4	
# Benzene	0.9867	0.8968	45.45	50	-9	#
# 1,2-Dichloroethane	0.3111	0.2762	44.40	50	-11	#
# 1,2-Dichloroethane(2)	0.0299	0.0291	48.65	50	-3	#<-
t-Amyl methyl ether	0.7447	0.6270	42.09	50	-16	
n-Heptane	0.3675	0.3207	43.64	50	-13	
n-Butanol	0.3139	0.3115	1240.15	1250	-1	
# Trichloroethene	0.2514	0.2293	45.60	50	-9	#
# Methylcyclohexane	0.4363	0.4080	46.76	50	-6	#
# Methylcyclohexane(2)	0.1962	0.1825	46.50	50	-7	#
# 1,2-Dichloropropane	0.2621	0.2350	44.82	50	-10	#
Dibromomethane	0.1630	0.1526	46.79	50	-6	
1,4-Dioxane	0.1073	0.1120	652.47	625	4	
Methyl Methacrylate	0.2189	0.2035	46.47	50	-7	
# Bromodichloromethane	0.3020	0.2781	46.04	50	-8	#
2-Nitropropane	0.0698	0.0788	96.45	100	-4	
2-Chloroethyl Vinyl Ether	0.1901	0.1780	46.81	50	-6	
# cis-1,3-Dichloropropene	0.3834	0.3550	46.30	50	-7	#
# 4-Methyl-2-pentanone	0.3246	0.3502	107.86	100	8	#
# Toluene	0.8122	0.7736	47.63	50	-5	#
# trans-1,3-Dichloropropene	0.4562	0.4377	47.97	50	-4	#
Ethyl Methacrylate	0.5208	0.4922	47.25	50	-5	
# 1,1,2-Trichloroethane	0.3073	0.2997	48.76	50	-2	#
# Tetrachloroethene	0.3457	0.3399	49.16	50	-2	#
1,3-Dichloropropane	0.5333	0.5044	47.28	50	-5	
# 2-Hexanone	0.3122	0.3575	114.52	100	15	#
# Dibromochloromethane	0.3097	0.3112	50.24	50	0	#
# 1,2-Dibromoethane	0.3296	0.3244	49.20	50	-2	#
1-Chlorohexane	0.4438	0.0232	2.61	50	-95	
# Chlorobenzene	0.8914	0.8729	48.96	50	-2	#
1,1,1,2-Tetrachloroethane	0.2912	0.2921	50.14	50	0	

Compounds with required minimum RRF.
All compounds must meet a maximum % Drift of 20.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 Calibration Date: 03/11/15 Time: 14:02

Lab File ID: lm11c01.d Init. Calib. Date(s): 01/27/15 01/27/15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

			ACTUAL	TRUE	%	
COMPOUND	RRF	RRF50	CONC.	CONC.	DRIFT	
# Ethylbenzene	1.5560	1.4718	47.29	50	-5	#
# m+p-Xylene	0.6004	0.5854	97.49	100	-3	#
# o-Xylene	0.5871	0.5656	48.16	50	-4	#
# Styrene	0.9833	0.9726	49.46	50	-1	#
# Bromoform	0.2311	0.2284	49.43	50	-1	#
# Isopropylbenzene	1.5711	1.4752	46.95	50	-6	#
Cyclohexanone	0.3977	0.2683	421.56	625	-33	<-
Bromobenzene	0.7340	0.7424	50.57	50	1	
# 1,1,2,2-Tetrachloroethane	0.9044	0.8622	47.67	50	-5	#
1,2,3-Trichloropropane	0.2618	0.2557	48.83	50	-2	
trans-1,4-Dichloro-2-butene	0.2145	0.2209	128.74	125	3	
n-Propylbenzene	3.5327	3.2794	46.41	50	-7	
2-Chlorotoluene	0.6951	0.6631	47.70	50	-5	
4-Chlorotoluene	0.7240	0.7008	48.40	50	-3	
1,3,5-Trimethylbenzene	2.5277	2.3708	46.90	50	-6	
tert-Butylbenzene	0.5204	0.4888	46.97	50	-6	
Pentachloroethane	0.4200	0.4787	56.99	50	14	
1,2,4-Trimethylbenzene	2.5666	2.4377	47.49	50	-5	
sec-Butylbenzene	3.2489	3.0384	46.76	50	-6	
# 1,3-Dichlorobenzene	1.4144	1.3952	49.32	50	-1	#
p-Isopropyltoluene	2.7977	2.6803	47.90	50	-4	
# 1,4-Dichlorobenzene	1.4611	1.4354	49.12	50	-2	#
1,2,3-Trimethylbenzene	2.6505	2.7433	51.75	50	4	
Benzyl Chloride	1.6938	1.6982	50.13	50	0	
1,3-Diethylbenzene	1.7552	1.7626	50.21	50	0	
1,4-Diethylbenzene	1.7807	1.7794	49.96	50	0	
# 1,2-Dichlorobenzene	1.4285	1.3890	48.62	50	-3	#
n-Butylbenzene	1.4575	1.3343	45.77	50	-8	
1,2-Diethylbenzene	1.4092	1.4048	49.84	50	0	
# 1,2-Dibromo-3-chloropropane	0.1825	0.1665	45.62	50	-9	#
1,3,5-Trichlorobenzene	1.2310	1.1026	46.31	50	-7	
# 1,2,4-Trichlorobenzene	1.2126	1.0540	45.93	50	-8	#
Hexachlorobutadiene	0.5649	0.4818	44.76	50	-10	
Naphthalene	3.2631	3.0654	46.97	50	-6	
1,2,3-Trichlorobenzene	1.1955	1.0135	46.31	50	-7	
2-Methylnaphthalene	2.1222	1.8774	45.17	50	-10	

Compounds with required minimum RRF.
All compounds must meet a maximum % Drift of 20.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

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

Instrument ID: HP09915 Calibration Date: 03/11/15 Time: 14:02

Lab File ID: lm11c01.d Init. Calib. Date(s): 01/27/15 01/27/15

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: Rxi-624Sil .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dibromofluoromethane	0.2389	0.2370	49.60	50	-1
Dibromofluoromethane(2)	0.2439	0.2422	49.65	50	-1
1,2-Dichloroethane-d4	0.0591	0.0598	50.59	50	1
1,2-Dichloroethane-d4(2)	0.2778	0.2651	47.71	50	-5
1,2-Dichloroethane-d4(3)	0.0336	0.0386	57.44	50	15
Toluene-d8	1.3018	1.3046	50.11	50	0
Toluene-d8(2)	0.8559	0.8503	49.67	50	-1
4-Bromofluorobenzene	0.5183	0.4888	47.15	50	-6
4-Bromofluorobenzene(2)	0.4233	0.4292	50.70	50	1

Average %Drift 8

Compounds with required minimum RRF.
All compounds must meet a maximum % Drift of 20.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:

Lab Code: LANCAS Case No.: SAS No.: SDG No.: OSP16

Lab File ID (Standard): lm11c01.d Date Analyzed: 03/11/15

Instrument ID: HP09915 Time Analyzed: 14:02

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

		IS1(TBA) AREA #	RT #	IS2(FBZ) AREA #	RT #	IS3(CBZ) AREA #	RT #	IS4(DCB) AREA #	RT #
	12 HOUR STD	240236	4.218	1365156	7.736	1012761	11.208	548398	13.086
	UPPER LIMIT	480472	4.718	2730312	8.236	2025522	11.708	1096796	13.586
	LOWER LIMIT	120118	3.718	682578	7.236	506380	10.708	274199	12.586
	LAB SAMPLE ID								
01	VBLKL64	181266	4.228	1174563	7.739	888769	11.208	470586	13.089
02	LCSL65	192027	4.231	1164126	7.739	886150	11.205	465216	13.086
03	LCDL65	177087	4.231	1147282	7.739	864218	11.205	452359	13.086
04	MDL001 - MD	180793	4.244	1143075	7.742	854183	11.208	454948	13.086
05	LCSL64	186041	4.240	1186191	7.739	892871	11.208	486361	13.089
06	LCDL64	199621	4.244	1177474	7.739	895892	11.208	484745	13.086
07	7798166	185861	4.237	1191537	7.739	896314	11.205	482474	13.086
08	7797671	209520	4.231	1261711	7.739	957010	11.208	513595	13.089
09	7797670	165761	4.224	1122927	7.739	845862	11.205	455267	13.086
10	7798167	188960	4.227	1144836	7.738	869833	11.205	471548	13.089
11	7798168	170341	4.237	1088191	7.738	826350	11.208	445961	13.089
12	7798169	179614	4.234	1111552	7.738	846816	11.204	457271	13.085
13	7798170	169569	4.234	1128871	7.739	853810	11.205	450175	13.089
14	7795002DL	168879	4.231	1115336	7.739	848201	11.205	455937	13.086
15	7795003DL	163873	4.228	1116158	7.739	841459	11.205	450222	13.086
16	7795004DL	168015	4.234	1123339	7.742	835673	11.208	442899	13.086
17	7795007DL	164134	4.237	1135204	7.742	857040	11.205	457073	13.086
18	7795008DL	164162	4.224	1085244	7.738	828241	11.208	444866	13.086

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

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

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

FORM VIII VOA

Sample Data

Volatiles by GC/MS

Fraction: Volatiles by GC/MS

11997: VOCs- 5ml Water by 8260C Analyte Name	Default MDL	Default LOQ	Units
Chloromethane	0.5	1	ug/l
Vinyl Chloride	0.5	1	ug/l
Bromomethane	0.5	1	ug/l
Chloroethane	0.5	1	ug/l
Trichlorofluoromethane	0.5	1	ug/l
Acrolein	40	100	ug/l
1,1-Dichloroethene	0.5	1	ug/l
Methylene Chloride	2	4	ug/l
Acrylonitrile	4	20	ug/l
trans-1,2-Dichloroethene	0.5	1	ug/l
1,1-Dichloroethane	0.5	1	ug/l
cis-1,2-Dichloroethene	0.5	1	ug/l
Chloroform	0.5	1	ug/l
1,1,1-Trichloroethane	0.5	1	ug/l
Carbon Tetrachloride	0.5	1	ug/l
Benzene	0.5	1	ug/l
1,2-Dichloroethane	0.5	1	ug/l
Trichloroethene	0.5	1	ug/l
1,2-Dichloropropane	0.5	1	ug/l
Bromodichloromethane	0.5	1	ug/l
2-Chloroethyl Vinyl Ether	2	10	ug/l
cis-1,3-Dichloropropene	0.5	1	ug/l
Toluene	0.5	1	ug/l
trans-1,3-Dichloropropene	0.5	1	ug/l
1,1,2-Trichloroethane	0.5	1	ug/l
Tetrachloroethene	0.5	1	ug/l
Dibromochloromethane	0.5	1	ug/l
Chlorobenzene	0.5	1	ug/l
Ethylbenzene	0.5	1	ug/l
Xylene (Total)	0.5	1	ug/l
Bromoform	0.5	4	ug/l
1,1,2,2-Tetrachloroethane	0.5	1	ug/l

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKO04

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798166

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s45.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
107-02-8	Acrolein	100	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	4	U
107-13-1	Acrylonitrile	20	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKO04

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798166

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s45.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
75-25-2	Bromoform		4	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U

BKO04 Lancaster Laboratories 7798166
Analysis Summary for GC/MS Volatiles

Data file: /chem/HP09915.i/15mar11b.b/lm11s45.d Injection date and time: **11-MAR-2015 18:49**
Data file Sample Info. Line: BKO04;7798166;1;0;;OSP16;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 19:09 Automation

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
29) t-Butyl alcohol-d10	4.237	(-0.019)	826	65	185861	(-23)	250.00	
66) Fluorobenzene	7.739	(-0.003)	1915	96	1191537	(-13)	50.00	
100) Chlorobenzene-d5	11.205	(0.003)	2993	117	896314	(-11)	50.00	
131) 1,4-Dichlorobenzene-d4	13.086	(0.000)	3578	152	482474	(-12)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(2)	6.848	(0.000)	113	276709	48.603	97%		80 - 116
57) 1,2-Dichloroethane-d4	(2)	7.308	(0.000)	102	71477	50.714	101%		77 - 113
83) Toluene-d8	(3)	9.752	(-0.001)	98	1133509	48.572	97%		80 - 113
114) 4-Bromofluorobenzene	(3)	12.208	(0.000)	95	425635	45.812	92%		78 - 113

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
4) Chloromethane	(2)				Not Detected					0.5	1
6) Vinyl Chloride	(2)				Not Detected					0.5	1
8) Bromomethane	(2)				Not Detected					0.5	1
9) Chloroethane	(2)				Not Detected					0.5	1
12) Trichlorofluoromethane	(2)				Not Detected					0.5	1
16) Acrolein	(1)				Not Detected					40	100
17) 1,1-Dichloroethene	(2)				Not Detected					0.5	1
28) Methylene Chloride	(2)				Not Detected					2	4
31) Acrylonitrile	(2)				Not Detected					4	20
32) trans-1,2-Dichloroethene	(2)				Not Detected					0.5	1
36) 1,1-Dichloroethane	(2)				Not Detected					0.5	1
42) cis-1,2-Dichloroethene	(2)				Not Detected					0.5	1
51) Chloroform	(2)				Not Detected					0.5	1
53) 1,1,1-Trichloroethane	(2)				Not Detected					0.5	1
56) Carbon Tetrachloride	(2)				Not Detected					0.5	1
60) Benzene	(2)				Not Detected					0.5	1
61) 1,2-Dichloroethane	(2)				Not Detected					0.5	1
71) Trichloroethene	(2)				Not Detected					0.5	1
73) 1,2-Dichloropropane	(2)				Not Detected					0.5	1
78) Bromodichloromethane	(2)				Not Detected					0.5	1
80) 2-Chloroethyl Vinyl Ether	(2)				Not Detected					2	10
81) cis-1,3-Dichloropropene	(2)				Not Detected					0.5	1
88) Toluene	(3)				Not Detected					0.5	1
89) trans-1,3-Dichloropropene	(3)				Not Detected					0.5	1
92) 1,1,2-Trichloroethane	(3)				Not Detected					0.5	1
93) Tetrachloroethene	(3)				Not Detected					0.5	1
97) Dibromochloromethane	(3)				Not Detected					0.5	1
102) Chlorobenzene	(3)				Not Detected					0.5	1
104) Ethylbenzene	(3)				Not Detected					0.5	1
106) m+p-Xylene	(3)				Not Detected					0.5	1
107) o-Xylene	(3)				Not Detected					0.5	1

Digitally signed by Kevin A. Sposito on 03/11/2015 at 20:10. Target 3.5 esignature user ID: kas02648

Data file: /chem/HP09915.i/15mar11b.b/lm11s45.d Injection date and time: **11-MAR-2015 18:49**
Data file Sample Info. Line: BKO04;7798166;1;0;;OSP16;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 19:09 Automation

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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**

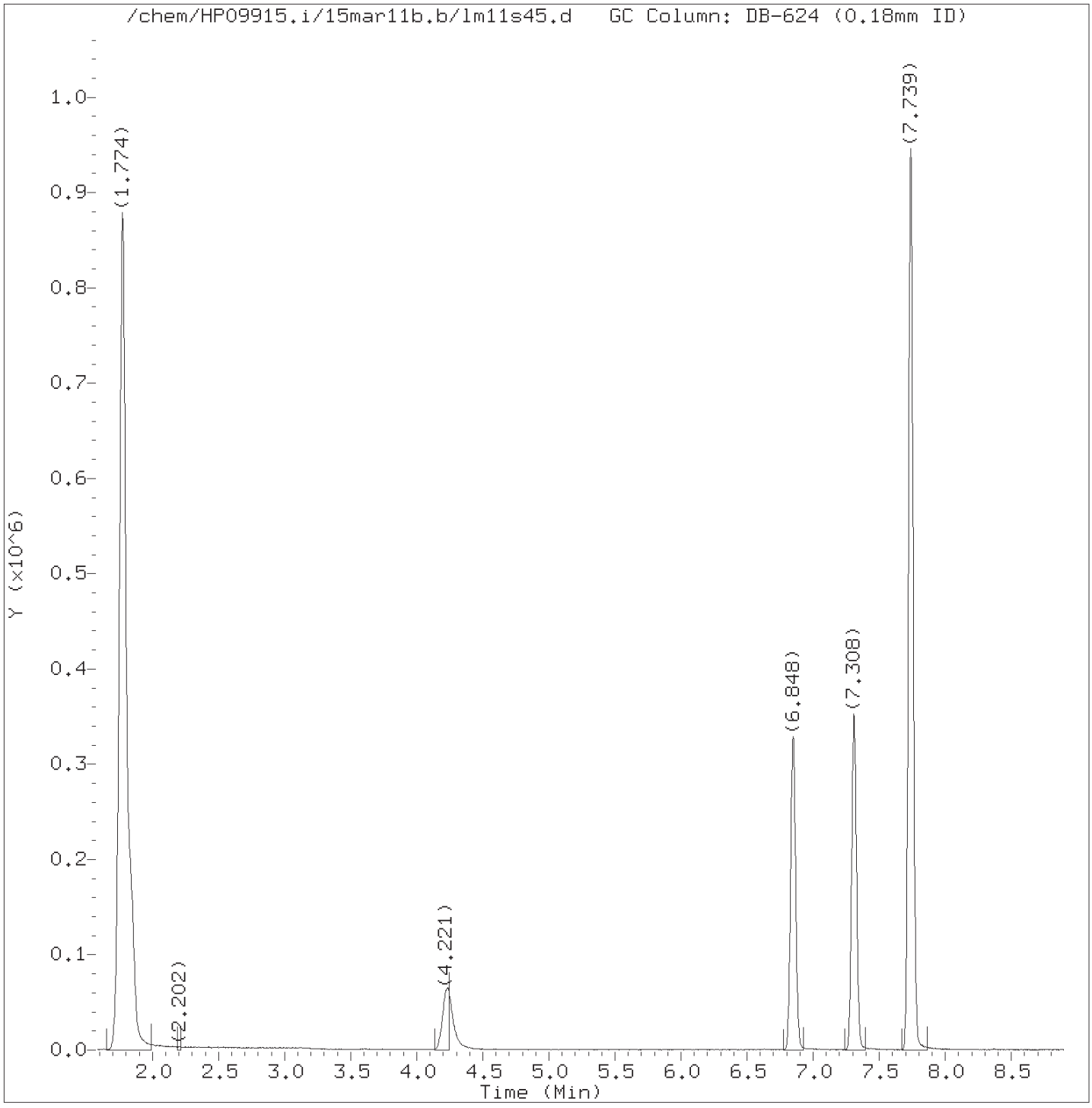
Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
108) Xylene (Total)	(3)				Not Detected					0.5	1
110) Bromoform	(3)				Not Detected					0.5	4
116) 1,1,2,2-Tetrachloroethane	(4)				Not Detected					0.5	1

Total number of targets = 34

Digitally signed by Kevin A. Sposito on 03/11/2015 at 20:10. Target 3.5 esignature user ID: kas02648

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:15. Parallax ID: cbs01947



Total Ion Chromatogram (TIC)

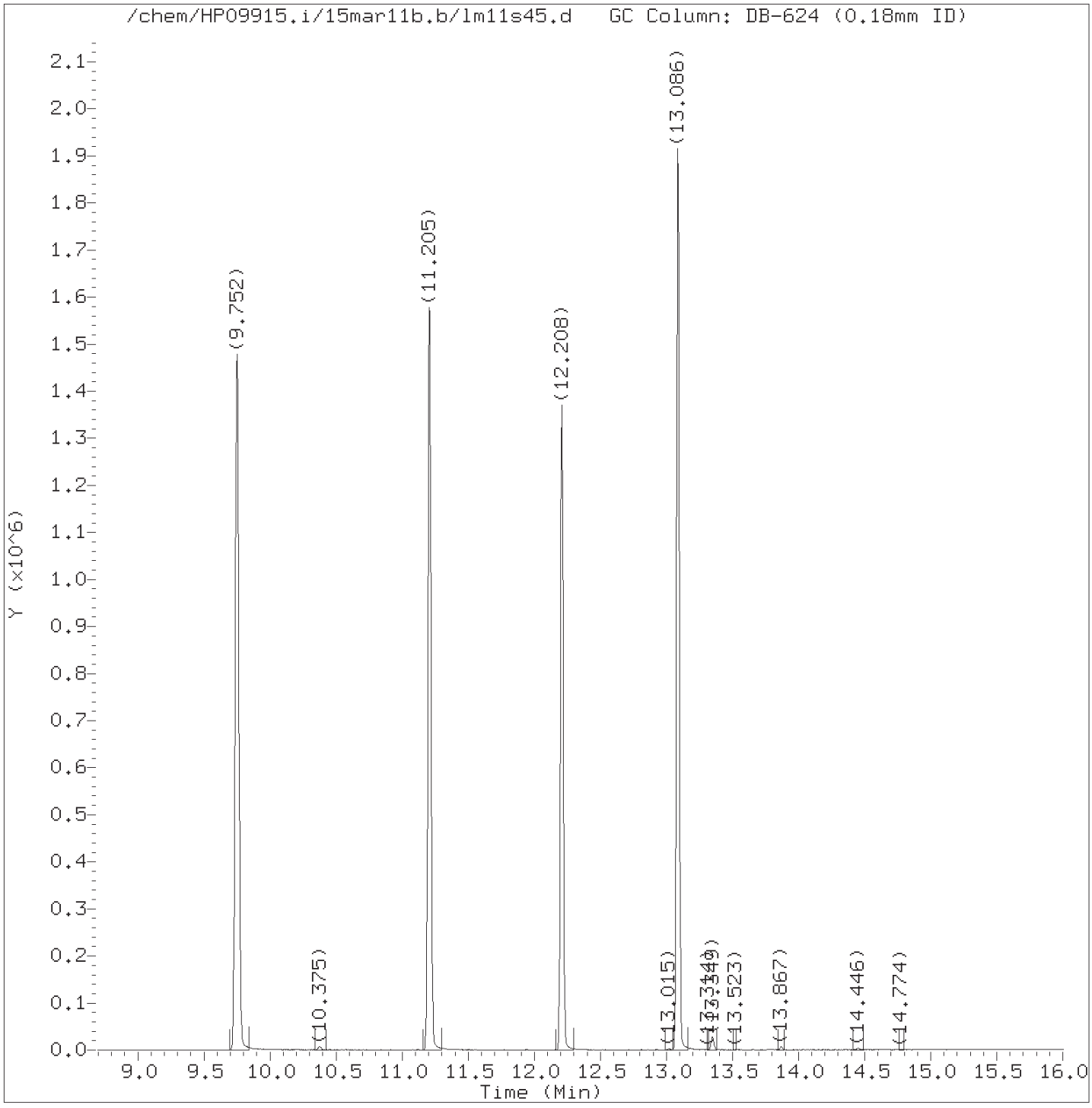
Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s45.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 18:49 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 19:09 Automation

Sample Name: BKO04 Lab Sample ID: 7798166

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 20:10.
Target 3.5 esignature user ID: kas02648



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s45.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 18:49 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 19:09 Automation

Sample Name: BKO04 Lab Sample ID: 7798166

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 20:10.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s45.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 18:49 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 19:09 Automation

Sample Name: BKO04 Lab Sample ID: 7798166

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
29)*t-Butyl alcohol-d10	(1)	4.237	65	185861	250.000
52)$Dibromofluoromethane	(2)	6.848	113	276709	48.603
57)$1,2-Dichloroethane-d4	(2)	7.308	102	71477	50.714
66)*Fluorobenzene	(2)	7.739	96	1191537	50.000
83)$Toluene-d8	(3)	9.752	98	1133509	48.572
100)*Chlorobenzene-d5	(3)	11.205	117	896314	50.000
114)$4-Bromofluorobenzene	(3)	12.208	95	425635	45.812
131)*1,4-Dichlorobenzene-d4	(4)	13.086	152	482474	50.000

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

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 20:10.
Target 3.5 esignature user ID: kas02648

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKO05

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798167

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s46.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	0.8	J
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	
75-69-4	Trichlorofluoromethane	1	U
107-02-8	Acrolein	100	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	4	U
107-13-1	Acrylonitrile	20	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	18	
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	2	
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKO05

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798167

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s46.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-25-2	Bromoform	4	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

BKO05 Lancaster Laboratories 7798167
Analysis Summary for GC/MS Volatiles

Data file: /chem/HP09915.i/15mar11b.b/lm11s46.d Injection date and time: **11-MAR-2015 20:24**
Data file Sample Info. Line: BKO05;7798167;1;0;;OSP16;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
29) t-Butyl alcohol-d10	4.227	(-0.009)	823	65	188960	(-21)	250.00	
66) Fluorobenzene	7.739	(-0.003)	1915	96	1144836	(-16)	50.00	
100) Chlorobenzene-d5	11.205	(0.003)	2993	117	869833	(-14)	50.00	
131) 1,4-Dichlorobenzene-d4	13.089	(-0.003)	3579	152	471548	(-14)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(2)	6.848	(0.000)	113	269427	49.254	99%		80 - 116
57) 1,2-Dichloroethane-d4	(2)	7.308	(0.000)	102	69861	51.589	103%		77 - 113
83) Toluene-d8	(3)	9.748	(0.000)	98	1096471	48.416	97%		80 - 113
114) 4-Bromofluorobenzene	(3)	12.208	(0.000)	95	416318	46.174	92%		78 - 113

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
4) Chloromethane	(2)				Not Detected					0.5	1
6) Vinyl Chloride	(2)	2.256	(0.003)	62	5410	0.846	0.85		J	0.5	1
8) Bromomethane	(2)				Not Detected					0.5	1
9) Chloroethane	(2)	2.700	(-0.000)	64	3804M	1.101	1.10			0.5	1
12) Trichlorofluoromethane	(2)				Not Detected					0.5	1
16) Acrolein	(1)				Not Detected					40	100
17) 1,1-Dichloroethene	(2)				Not Detected					0.5	1
28) Methylene Chloride	(2)				Not Detected					2	4
31) Acrylonitrile	(2)				Not Detected					4	20
32) trans-1,2-Dichloroethene	(2)				Not Detected					0.5	1
36) 1,1-Dichloroethane	(2)				Not Detected					0.5	1
42) cis-1,2-Dichloroethene	(2)	6.147	(-0.000)	96	106390	18.335	18.34			0.5	1
51) Chloroform	(2)				Not Detected					0.5	1
53) 1,1,1-Trichloroethane	(2)				Not Detected					0.5	1
56) Carbon Tetrachloride	(2)				Not Detected					0.5	1
60) Benzene	(2)				Not Detected					0.5	1
61) 1,2-Dichloroethane	(2)				Not Detected					0.5	1
71) Trichloroethene	(2)				Not Detected					0.5	1
73) 1,2-Dichloropropane	(2)				Not Detected					0.5	1
78) Bromodichloromethane	(2)				Not Detected					0.5	1
80) 2-Chloroethyl Vinyl Ether	(2)				Not Detected					2	10
81) cis-1,3-Dichloropropene	(2)				Not Detected					0.5	1
88) Toluene	(3)				Not Detected					0.5	1
89) trans-1,3-Dichloropropene	(3)				Not Detected					0.5	1
92) 1,1,2-Trichloroethane	(3)				Not Detected					0.5	1
93) Tetrachloroethene	(3)	10.375	(-0.000)	166	10553	1.755	1.75			0.5	1
97) Dibromochloromethane	(3)				Not Detected					0.5	1
102) Chlorobenzene	(3)				Not Detected					0.5	1
104) Ethylbenzene	(3)				Not Detected					0.5	1
106) m+p-Xylene	(3)				Not Detected					0.5	1
107) o-Xylene	(3)				Not Detected					0.5	1

M = Compound was manually integrated.

Digitally signed by Kevin A. Sposito on 03/11/2015 at 21:00. Target 3.5 esignature user ID: kas02648

Data file: /chem/HP09915.i/15mar11b.b/lm11s46.d Injection date and time: **11-MAR-2015 20:24**
Data file Sample Info. Line: BKO05;7798167;1;0;;OSP16;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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**

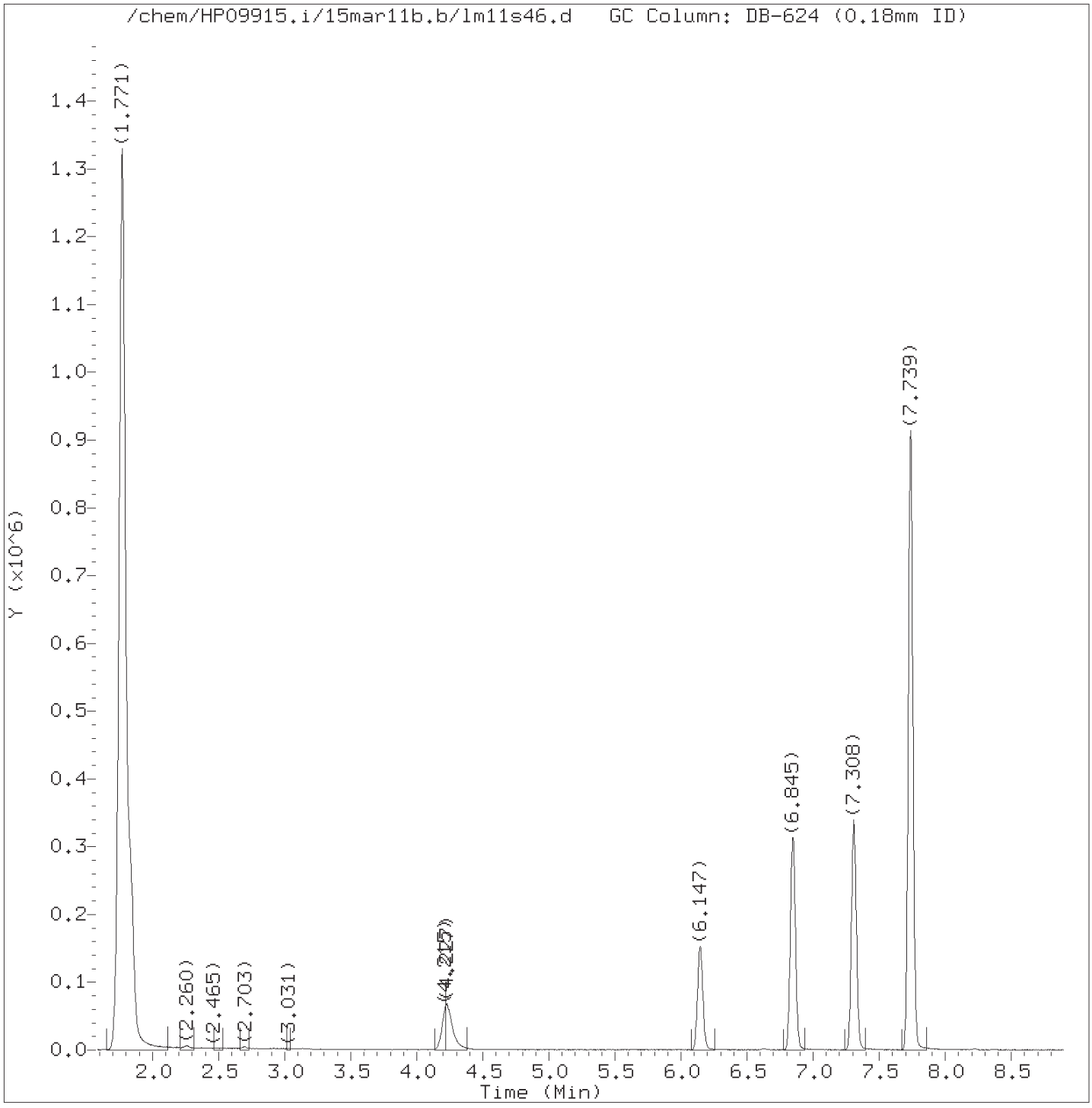
Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
108) Xylene (Total)	(3)				Not Detected					0.5	1
110) Bromoform	(3)				Not Detected					0.5	4
116) 1,1,2,2-Tetrachloroethane	(4)				Not Detected					0.5	1

Total number of targets = 34

Digitally signed by Kevin A. Sposito on 03/11/2015 at 21:00. Target 3.5 esignature user ID: kas02648

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:15. Parallax ID: cbs01947



Total Ion Chromatogram (TIC)

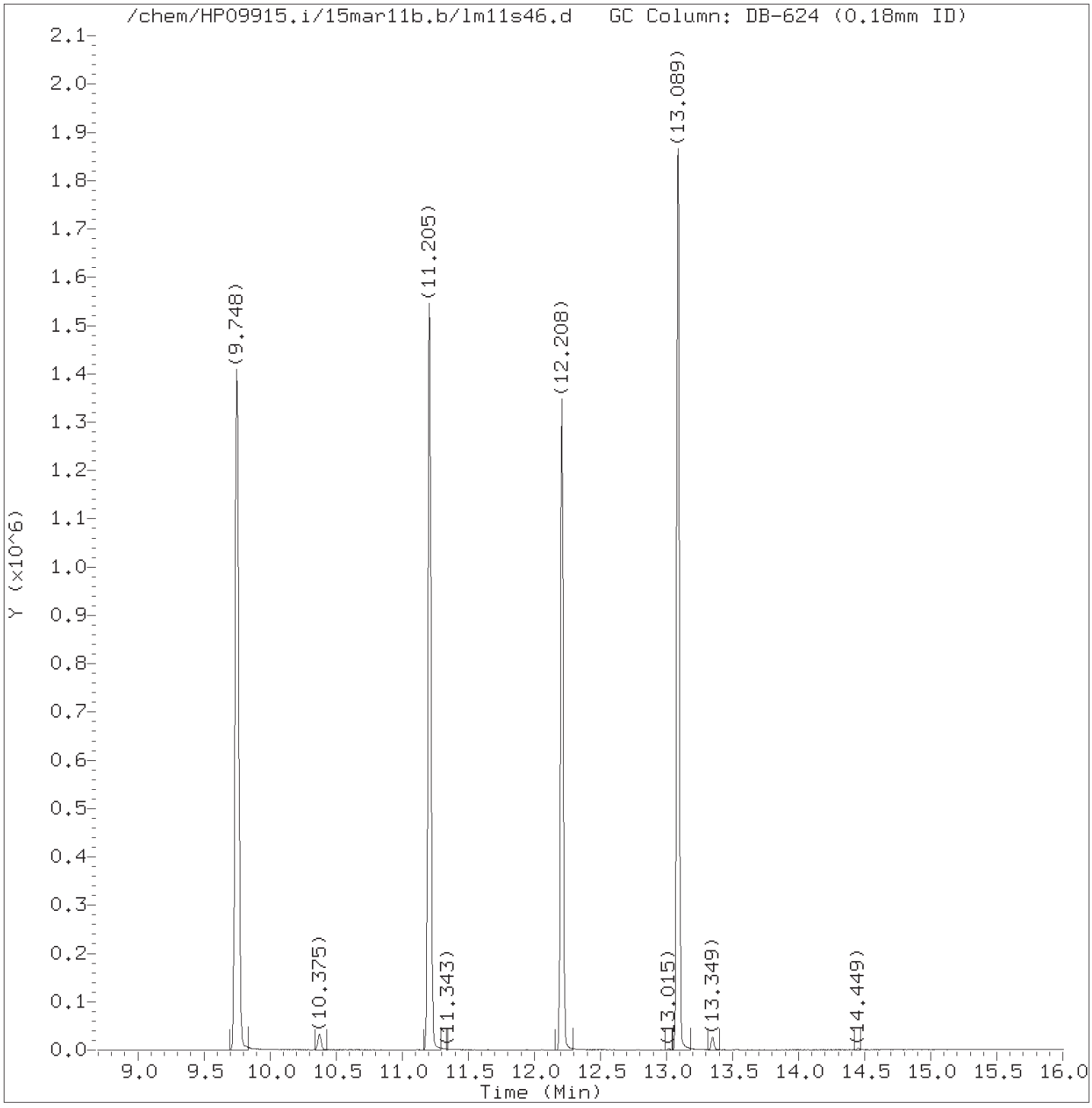
Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

Sample Name: BKO05 Lab Sample ID: 7798167

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 21:00.
Target 3.5 esignature user ID: kas02648



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

Sample Name: BKO05 Lab Sample ID: 7798167

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 21:00.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

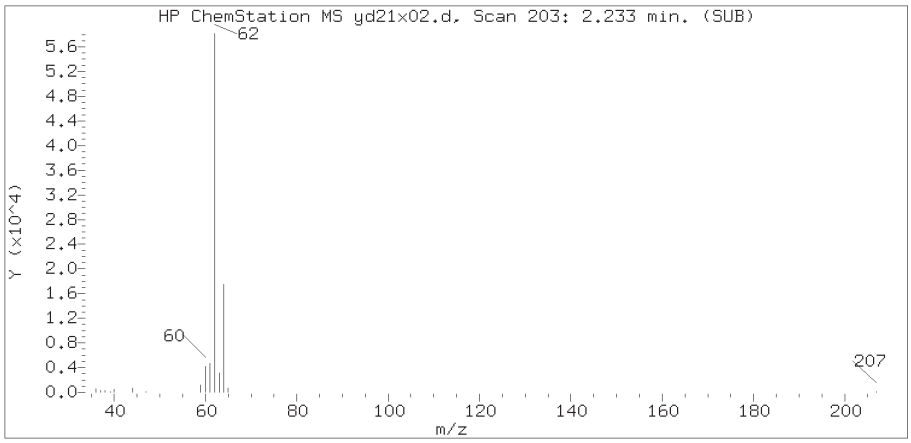
Sample Name: BKO05 Lab Sample ID: 7798167

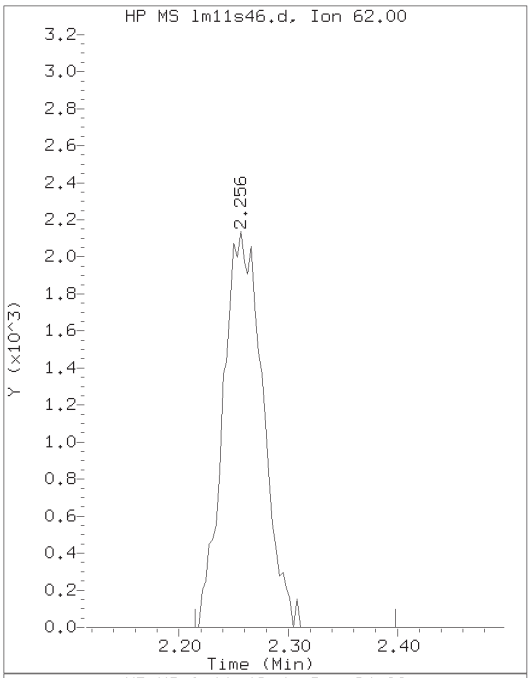
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
6) Vinyl Chloride	(2)	2.256	62	5410	0.846
9) Chloroethane	(2)	2.700	64	3804M	1.101
29)*t-Butyl alcohol-d10	(1)	4.227	65	188960	250.000
42) cis-1,2-Dichloroethene	(2)	6.147	96	106390	18.335
52)$Dibromofluoromethane	(2)	6.848	113	269427	49.254
57)$1,2-Dichloroethane-d4	(2)	7.308	102	69861	51.589
66)*Fluorobenzene	(2)	7.739	96	1144836	50.000
83)$Toluene-d8	(3)	9.748	98	1096471	48.416
93) Tetrachloroethene	(3)	10.375	166	10553	1.755
100)*Chlorobenzene-d5	(3)	11.205	117	869833	50.000
114)$4-Bromofluorobenzene	(3)	12.208	95	416318	46.174
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	471548	50.000

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

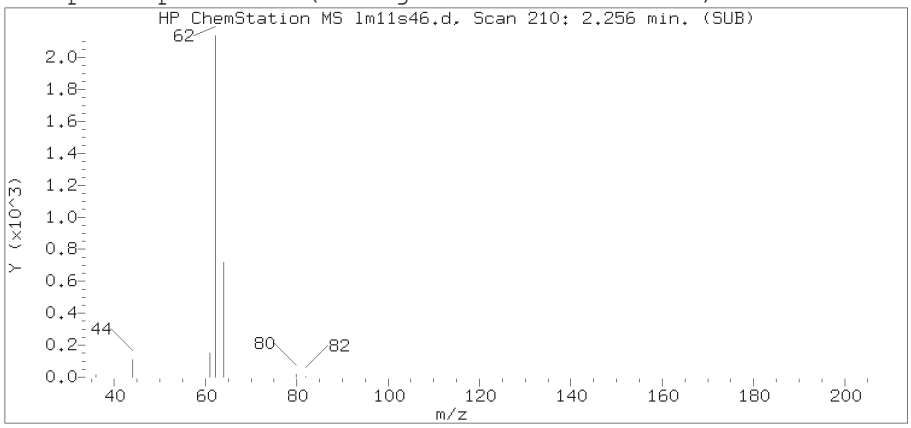
Digitally signed by Kevin A. Sposito
on 03/11/2015 at 21:00.
Target 3.5 esignature user ID: kas02648

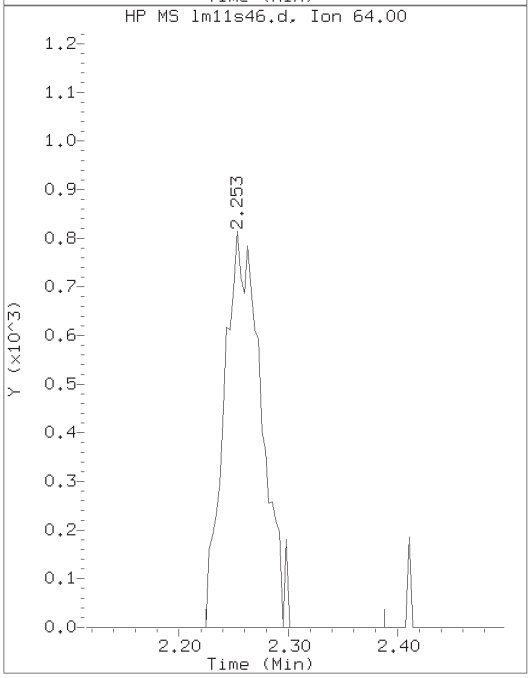
Reference Standard Spectrum for Vinyl Chloride



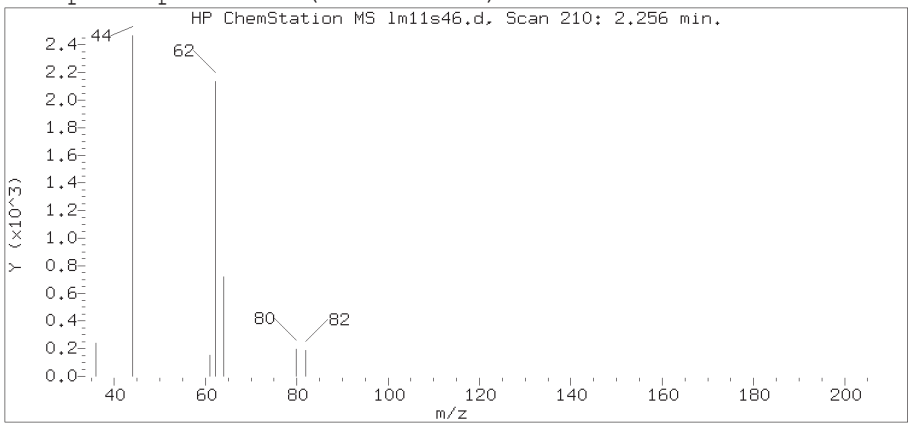


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

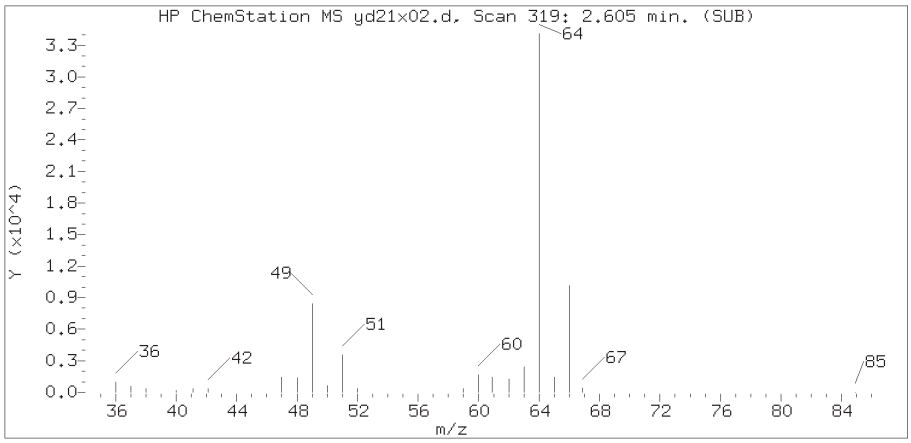
Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

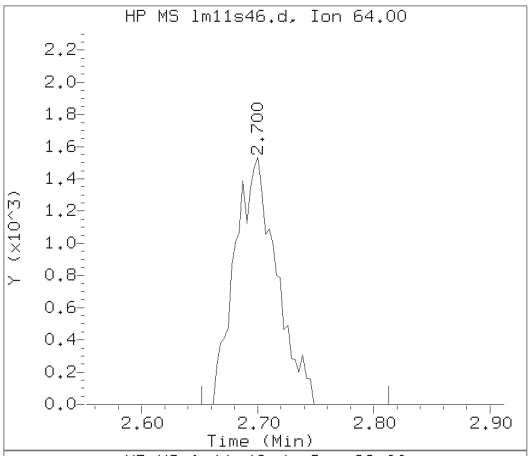
Sample Name: BKO05 Lab Sample ID: 7798167

Compound Number : 6
Compound Name : Vinyl Chloride
Scan Number : 210
Retention Time (minutes): 2.256
Relative Retention Time : 0.00346
Quant Ion : 62.00
Area (flag) : 5410
On-Column Amount (ng) : 0.8461

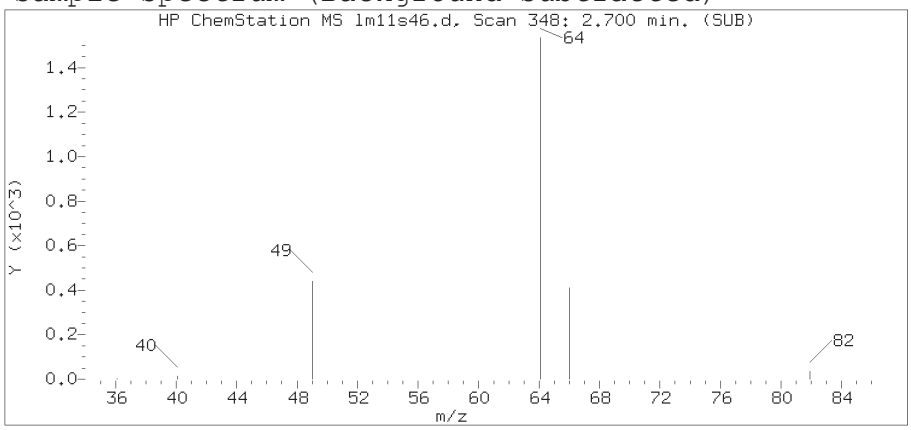
Digitally signed by Kevin A. Sposito on 03/11/2015 at 21:00.
Target 3.5 esignature ID: kas02648

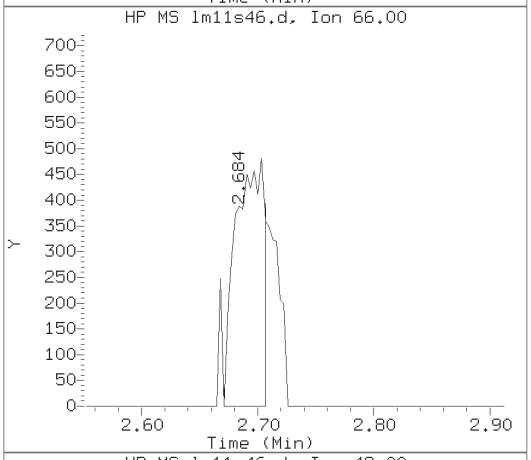
Reference Standard Spectrum for Chloroethane



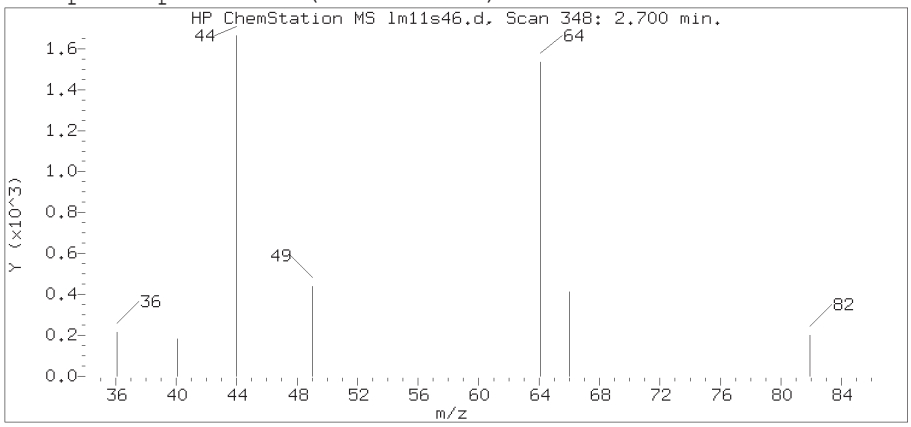


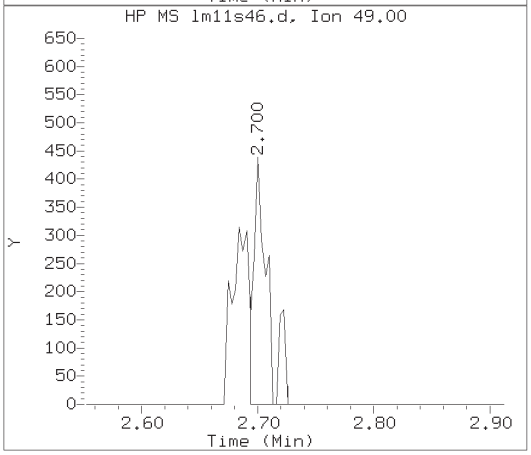
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

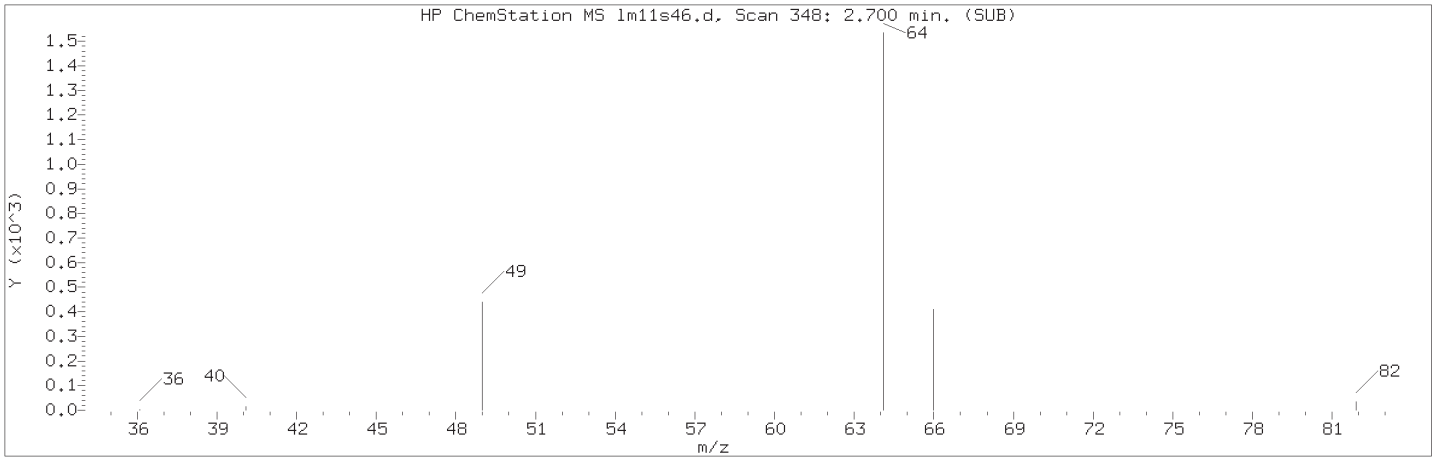
Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

Sample Name: BKO05 Lab Sample ID: 7798167

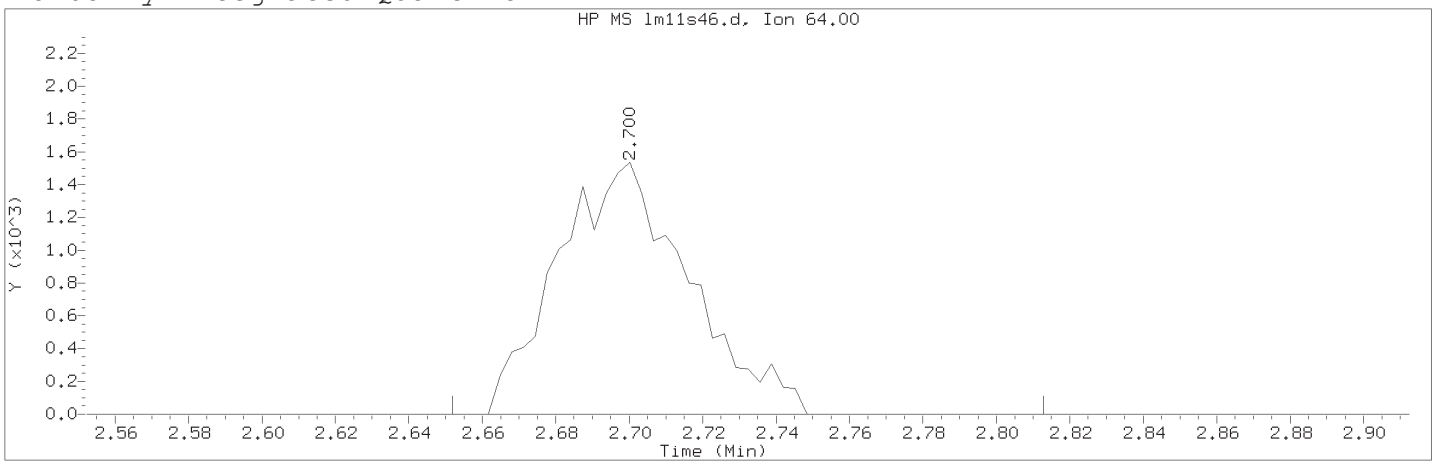
Compound Number : 9
Compound Name : Chloroethane
Scan Number : 348
Retention Time (minutes): 2.700
Relative Retention Time :-0.00026
Quant Ion : 64.00
Area (flag) : 3804M
On-Column Amount (ng) : 1.1011

Digitally signed by Kevin A. Sposito on 03/11/2015 at 21:00.
Target 3.5 esignature ID: kas02648

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

Sample Name: BKO05 Lab Sample ID: 7798167

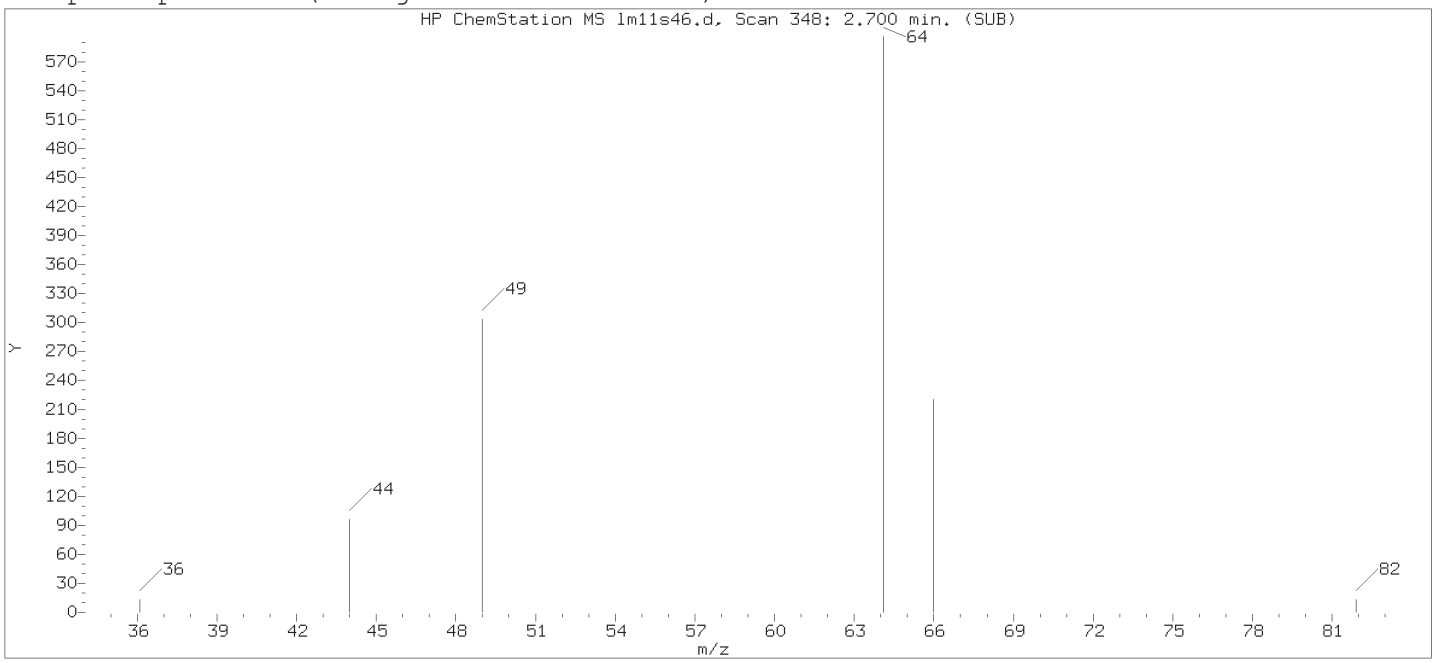
Compound Number : 9
Compound Name : Chloroethane
Scan Number : 348
Retention Time (minutes): 2.700
Quant Ion : 64.00
Area (flag) : 3804M
On-Column Amount (ng) : 1.1011
Integration start scan : 332 Integration stop scan: 382
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

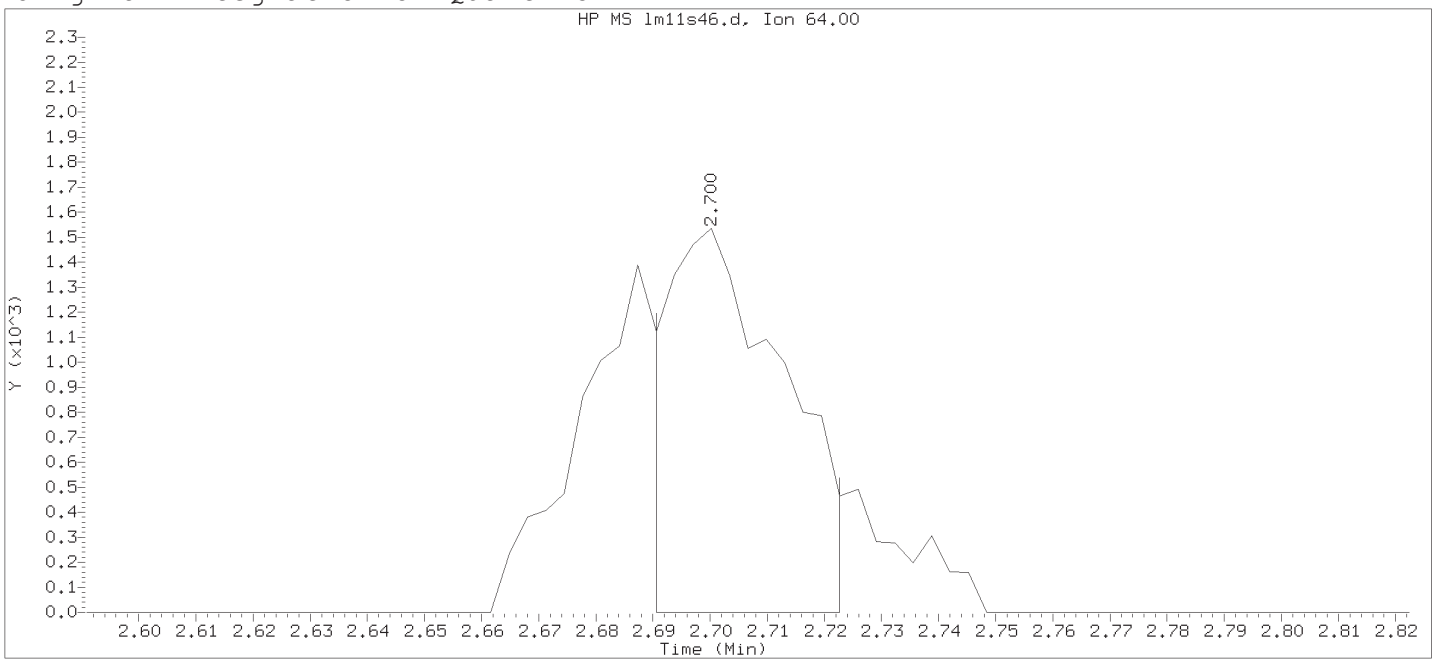
Analyst responsible for change: Digitally signed by Kevin A. Sposito
on 03/11/2015 at 21:00.
Target 3.5 esignature user ID: kas02648

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:15.
Parallax ID: cbs01947

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

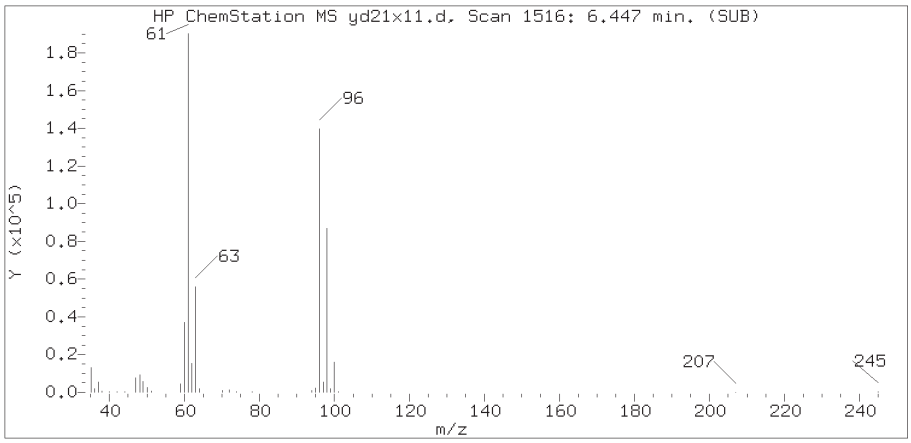
Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 20:43 Automation

Sample Name: BKO05 Lab Sample ID: 7798167

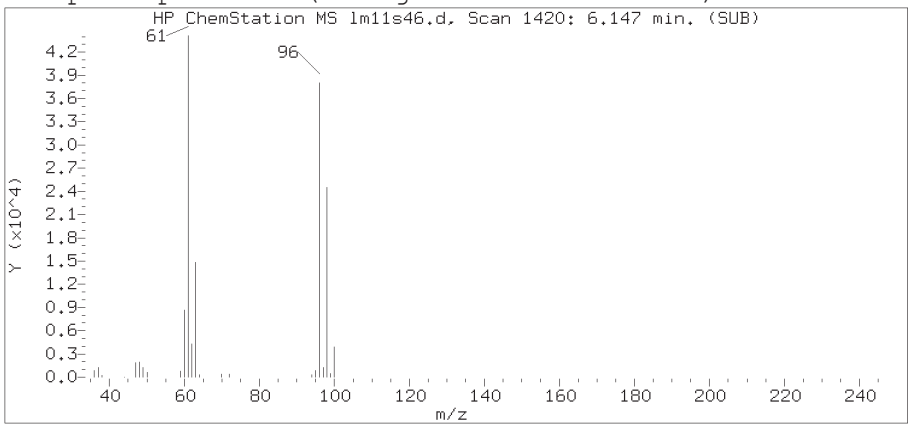
Compound Number : 9
Compound Name : Chloroethane
Scan Number : 348
Retention Time (minutes): 2.700
Quant Ion : 64.00
Area : 2165
On-column Amount (ng) : 0.6268
Integration start scan : 344 Integration stop scan: 354
Y at integration start : 0 Y at integration end: 0

Digitally signed by Kevin A. Sposito on 03/11/2015 at 21:00.
Target 3.5 esignature user ID: KAS02648

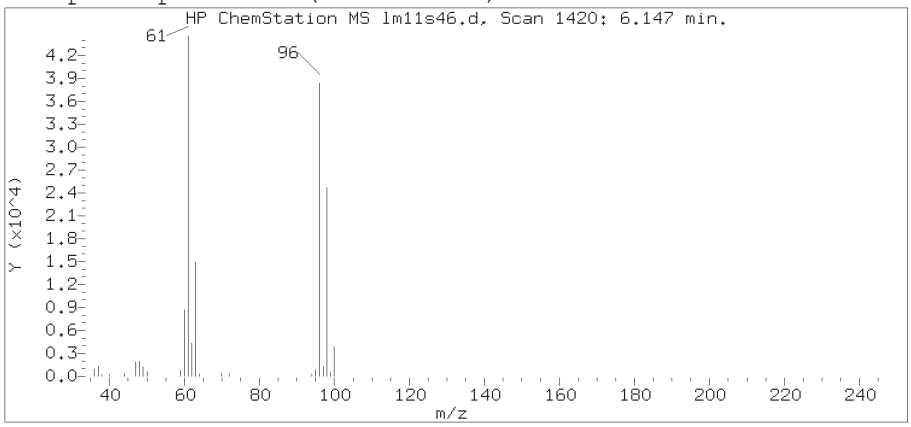
Reference Standard Spectrum for cis-1,2-Dichloroethene

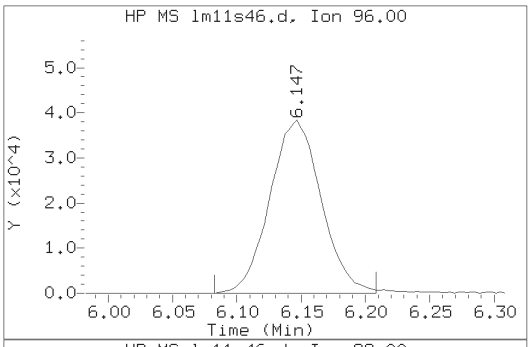


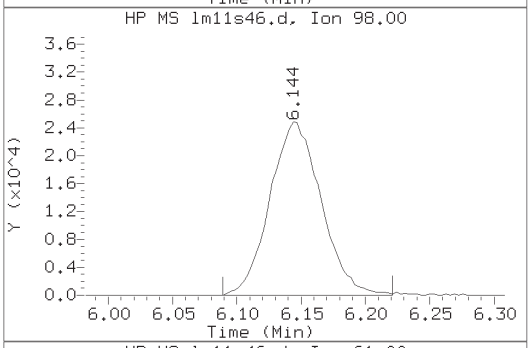
Sample Spectrum (Background Subtracted)

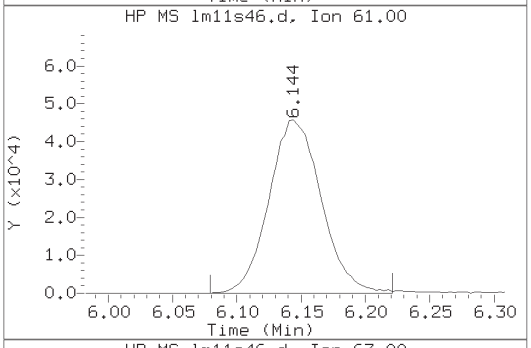


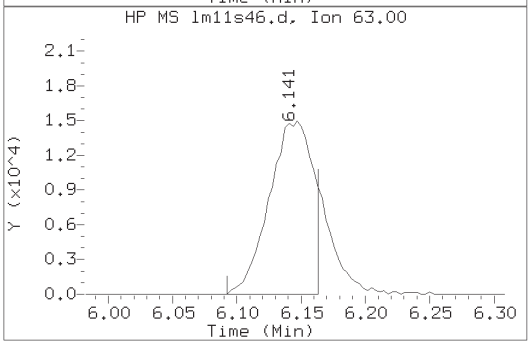
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

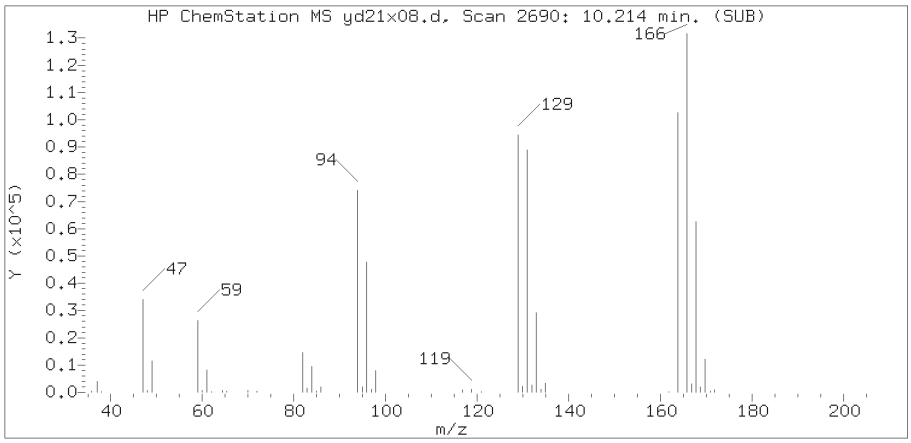
Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

Sample Name: BKO05 Lab Sample ID: 7798167

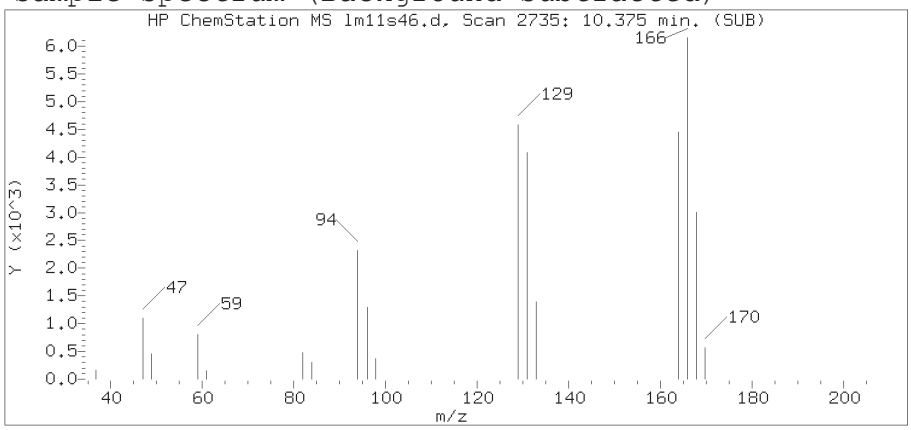
Compound Number : 42
Compound Name : cis-1,2-Dichloroethene
Scan Number : 1420
Retention Time (minutes): 6.147
Relative Retention Time :-0.00049
Quant Ion : 96.00
Area (flag) : 106390
On-Column Amount (ng) : 18.3352

Digitally signed by Kevin A. Sposito on 03/11/2015 at 21:00.
Target 3.5 esignature [illegible]

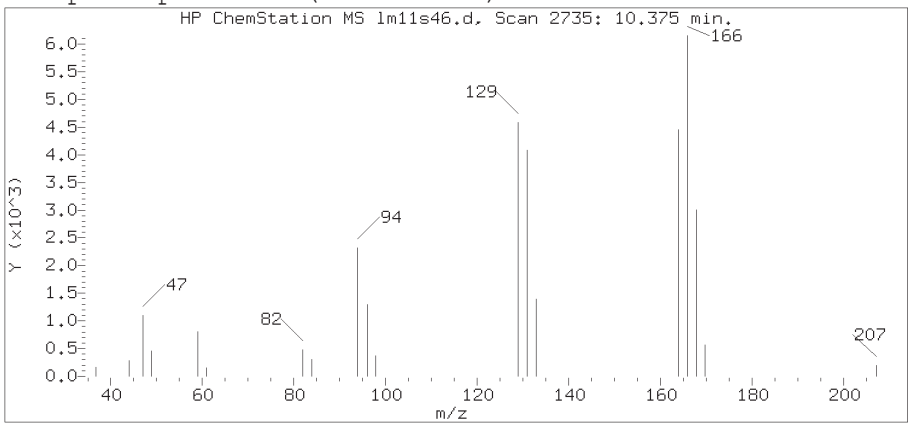
Reference Standard Spectrum for Tetrachloroethene

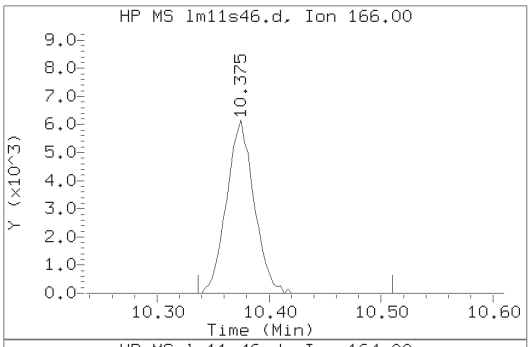


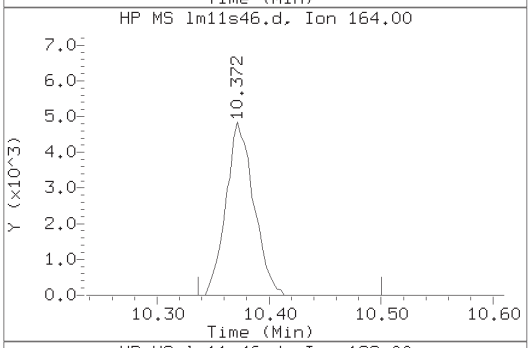
Sample Spectrum (Background Subtracted)

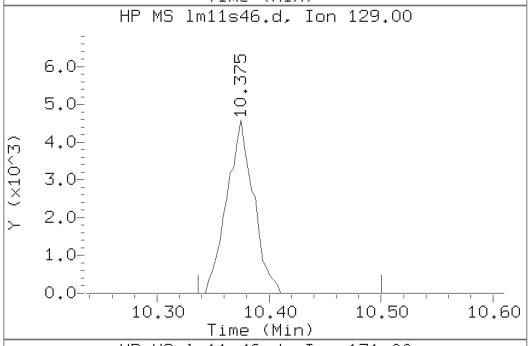


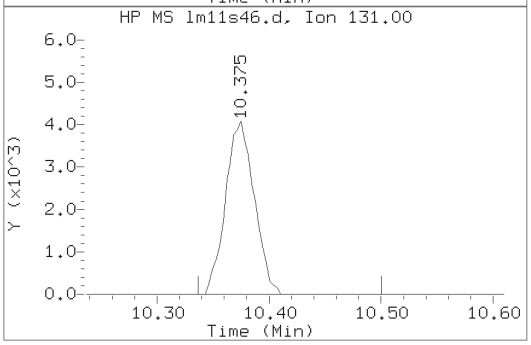
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/15mar11b.b/lm11s46.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:24 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:00 kas02648

Sample Name: BKO05 Lab Sample ID: 7798167

Compound Number : 93
Compound Name : Tetrachloroethene
Scan Number : 2735
Retention Time (minutes): 10.375
Relative Retention Time :-0.00055
Quant Ion : 166.00
Area (flag) : 10553
On-Column Amount (ng) : 1.7547

Digitally signed by Kevin A. Sposito on 03/11/2015 at 21:00.
Target 3.5 esignature [illegible] kas02648

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKOFD

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798168

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s47.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
107-02-8	Acrolein	100	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	4	U
107-13-1	Acrylonitrile	20	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKOFD

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798168

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s47.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-25-2	Bromoform	4	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

BKOFD

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

7798168

Data file: /chem/HP09915.i/15mar11b.b/lm11s47.d
Data file Sample Info. Line: BKOFD;7798168;1;0;;OSP16;;;lm11b05;
Date, time and analyst ID of latest file update: 11-Mar-2015 21:06 Automation

Injection date and time: **11-MAR-2015 20:47**
Instrument ID: **HP09915.i** Batch: **L150702AA**

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
29) t-Butyl alcohol-d10	4.237	(-0.019)	826	65	170341	(-29)	250.00	
66) Fluorobenzene	7.739	(-0.003)	1915	96	1088191	(-20)	50.00	
100) Chlorobenzene-d5	11.208	(0.000)	2994	117	826350	(-18)	50.00	
131) 1,4-Dichlorobenzene-d4	13.089	(-0.003)	3579	152	445961	(-19)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(2)	6.845	(0.000)	113	258053	49.630	99%		80 - 116
57) 1,2-Dichloroethane-d4	(2)	7.308	(0.000)	102	66592	51.735	103%		77 - 113
83) Toluene-d8	(3)	9.748	(0.000)	98	1051073	48.853	98%		80 - 113
114) 4-Bromofluorobenzene	(3)	12.208	(0.000)	95	394074	46.006	92%		78 - 113

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
4) Chloromethane	(2)				Not Detected					0.5	1
6) Vinyl Chloride	(2)				Not Detected					0.5	1
8) Bromomethane	(2)				Not Detected					0.5	1
9) Chloroethane	(2)				Not Detected					0.5	1
12) Trichlorofluoromethane	(2)				Not Detected					0.5	1
16) Acrolein	(1)				Not Detected					40	100
17) 1,1-Dichloroethene	(2)				Not Detected					0.5	1
28) Methylene Chloride	(2)				Not Detected					2	4
31) Acrylonitrile	(2)				Not Detected					4	20
32) trans-1,2-Dichloroethene	(2)				Not Detected					0.5	1
36) 1,1-Dichloroethane	(2)				Not Detected					0.5	1
42) cis-1,2-Dichloroethene	(2)				Not Detected					0.5	1
51) Chloroform	(2)				Not Detected					0.5	1
53) 1,1,1-Trichloroethane	(2)				Not Detected					0.5	1
56) Carbon Tetrachloride	(2)				Not Detected					0.5	1
60) Benzene	(2)				Not Detected					0.5	1
61) 1,2-Dichloroethane	(2)				Not Detected					0.5	1
71) Trichloroethene	(2)				Not Detected					0.5	1
73) 1,2-Dichloropropane	(2)				Not Detected					0.5	1
78) Bromodichloromethane	(2)				Not Detected					0.5	1
80) 2-Chloroethyl Vinyl Ether	(2)				Not Detected					2	10
81) cis-1,3-Dichloropropene	(2)				Not Detected					0.5	1
88) Toluene	(3)				Not Detected					0.5	1
89) trans-1,3-Dichloropropene	(3)				Not Detected					0.5	1
92) 1,1,2-Trichloroethane	(3)				Not Detected					0.5	1
93) Tetrachloroethene	(3)				Not Detected					0.5	1
97) Dibromochloromethane	(3)				Not Detected					0.5	1
102) Chlorobenzene	(3)				Not Detected					0.5	1
104) Ethylbenzene	(3)				Not Detected					0.5	1
106) m+p-Xylene	(3)				Not Detected					0.5	1
107) o-Xylene	(3)				Not Detected					0.5	1

Digitally signed by Kevin A. Sposito on 03/11/2015 at 22:34. Target 3.5 esignature user ID: kas02648

Data file: /chem/HP09915.i/15mar11b.b/lm11s47.d Injection date and time: **11-MAR-2015 20:47**
Data file Sample Info. Line: BKOFD;7798168;1;0;;OSP16;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 21:06 Automation

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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**

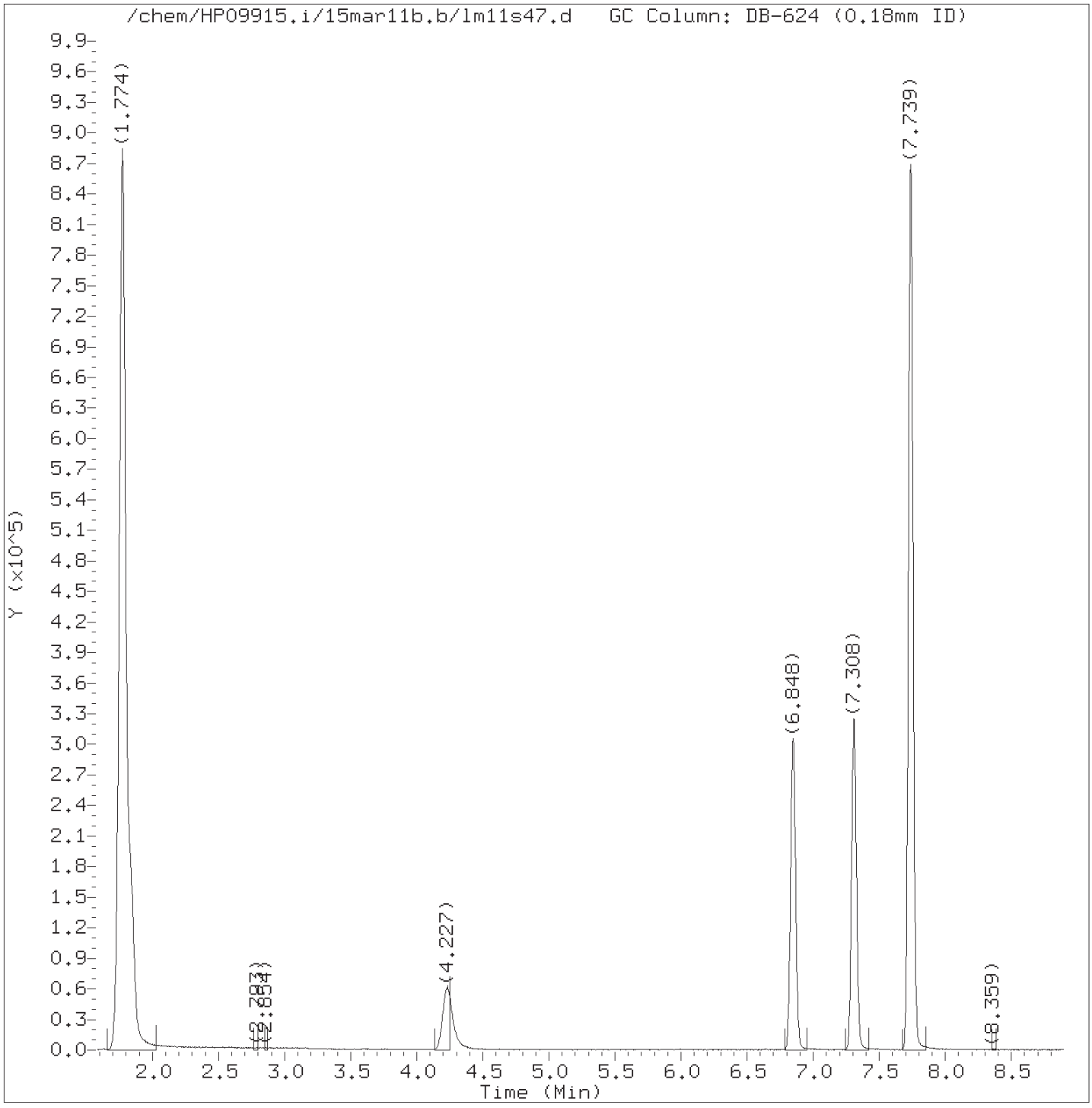
Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
108) Xylene (Total)	(3)				Not Detected					0.5	1
110) Bromoform	(3)				Not Detected					0.5	4
116) 1,1,2,2-Tetrachloroethane	(4)				Not Detected					0.5	1

Total number of targets = 34

Digitally signed by Kevin A. Sposito on 03/11/2015 at 22:34. Target 3.5 esignature user ID: kas02648

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:15. Parallax ID: cbs01947



Total Ion Chromatogram (TIC)

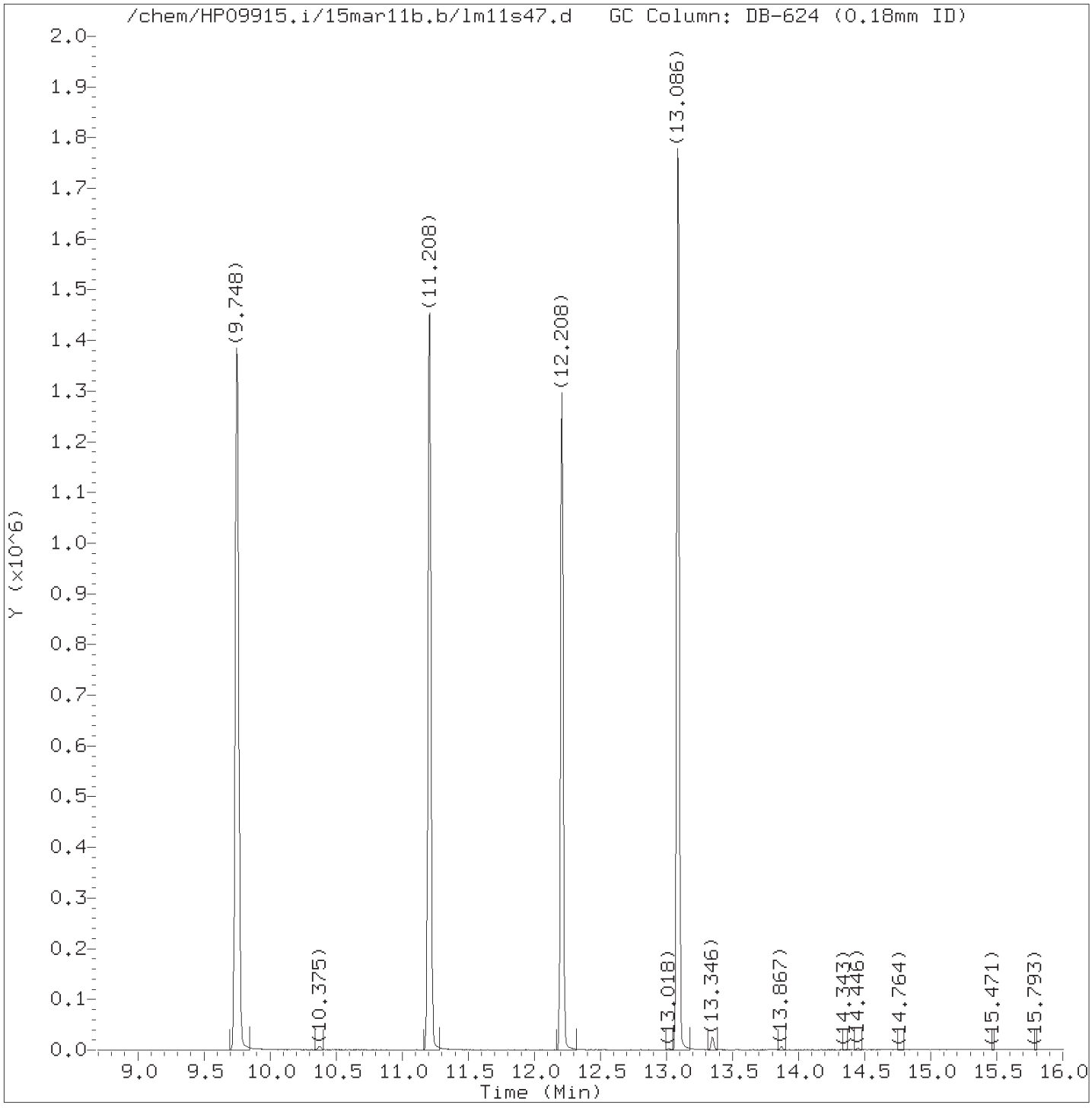
Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s47.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:47 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:06 Automation

Sample Name: BKOFD Lab Sample ID: 7798168

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:34.
Target 3.5 esignature user ID: kas02648



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s47.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:47 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:06 Automation

Sample Name: BKOFD Lab Sample ID: 7798168

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:34.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s47.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 20:47 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:06 Automation

Sample Name: BKOFD Lab Sample ID: 7798168

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
29)*t-Butyl alcohol-d10	(1)	4.237	65	170341	250.000
52)$Dibromofluoromethane	(2)	6.845	113	258053	49.630
57)$1,2-Dichloroethane-d4	(2)	7.308	102	66592	51.735
66)*Fluorobenzene	(2)	7.739	96	1088191	50.000
83)$Toluene-d8	(3)	9.748	98	1051073	48.853
100)*Chlorobenzene-d5	(3)	11.208	117	826350	50.000
114)$4-Bromofluorobenzene	(3)	12.208	95	394074	46.006
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	445961	50.000

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

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:34.
Target 3.5 esignature user ID: kas02648

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKOFB

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798169

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s48.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
107-02-8	Acrolein	100	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	4	U
107-13-1	Acrylonitrile	20	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKOFB

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798169

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s48.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-25-2	Bromoform	4	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U

BKOFB

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

7798169

Data file: /chem/HP09915.i/15mar11b.b/lm11s48.d
Data file Sample Info. Line: BKOFB;7798169;1;0;;OSP16;;;lm11b05;
Date, time and analyst ID of latest file update: 11-Mar-2015 21:28 Automation

Injection date and time: **11-MAR-2015 21:09**
Instrument ID: **HP09915.i** Batch: **L150702AA**

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
29) t-Butyl alcohol-d10	4.234	(-0.016)	825	65	179614	(-25)	250.00	
66) Fluorobenzene	7.738	(-0.003)	1915	96	1111552	(-19)	50.00	
100) Chlorobenzene-d5	11.205	(0.004)	2993	117	846816	(-16)	50.00	
131) 1,4-Dichlorobenzene-d4	13.085	(0.000)	3578	152	457271	(-17)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(2)	6.845	(0.000)	113	261561	49.248	98%		80 - 116
57) 1,2-Dichloroethane-d4	(2)	7.308	(0.000)	102	67750	51.529	103%		77 - 113
83) Toluene-d8	(3)	9.748	(0.000)	98	1070573	48.557	97%		80 - 113
114) 4-Bromofluorobenzene	(3)	12.208	(0.000)	95	400735	45.653	91%		78 - 113

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
4) Chloromethane	(2)				Not Detected					0.5	1
6) Vinyl Chloride	(2)				Not Detected					0.5	1
8) Bromomethane	(2)				Not Detected					0.5	1
9) Chloroethane	(2)				Not Detected					0.5	1
12) Trichlorofluoromethane	(2)				Not Detected					0.5	1
16) Acrolein	(1)				Not Detected					40	100
17) 1,1-Dichloroethene	(2)				Not Detected					0.5	1
28) Methylene Chloride	(2)				Not Detected					2	4
31) Acrylonitrile	(2)				Not Detected					4	20
32) trans-1,2-Dichloroethene	(2)				Not Detected					0.5	1
36) 1,1-Dichloroethane	(2)				Not Detected					0.5	1
42) cis-1,2-Dichloroethene	(2)				Not Detected					0.5	1
51) Chloroform	(2)				Not Detected					0.5	1
53) 1,1,1-Trichloroethane	(2)				Not Detected					0.5	1
56) Carbon Tetrachloride	(2)				Not Detected					0.5	1
60) Benzene	(2)				Not Detected					0.5	1
61) 1,2-Dichloroethane	(2)				Not Detected					0.5	1
71) Trichloroethene	(2)				Not Detected					0.5	1
73) 1,2-Dichloropropane	(2)				Not Detected					0.5	1
78) Bromodichloromethane	(2)				Not Detected					0.5	1
80) 2-Chloroethyl Vinyl Ether	(2)				Not Detected					2	10
81) cis-1,3-Dichloropropene	(2)				Not Detected					0.5	1
88) Toluene	(3)				Not Detected					0.5	1
89) trans-1,3-Dichloropropene	(3)				Not Detected					0.5	1
92) 1,1,2-Trichloroethane	(3)				Not Detected					0.5	1
93) Tetrachloroethene	(3)				Not Detected					0.5	1
97) Dibromochloromethane	(3)				Not Detected					0.5	1
102) Chlorobenzene	(3)				Not Detected					0.5	1
104) Ethylbenzene	(3)				Not Detected					0.5	1
106) m+p-Xylene	(3)				Not Detected					0.5	1
107) o-Xylene	(3)				Not Detected					0.5	1

Digitally signed by Kevin A. Sposito on 03/11/2015 at 22:34. Target 3.5 esignature user ID: kas02648

Data file: /chem/HP09915.i/15mar11b.b/lm11s48.d Injection date and time: **11-MAR-2015 21:09**
Data file Sample Info. Line: BKOFB;7798169;1;0;;OSP16;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 21:28 Automation

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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**

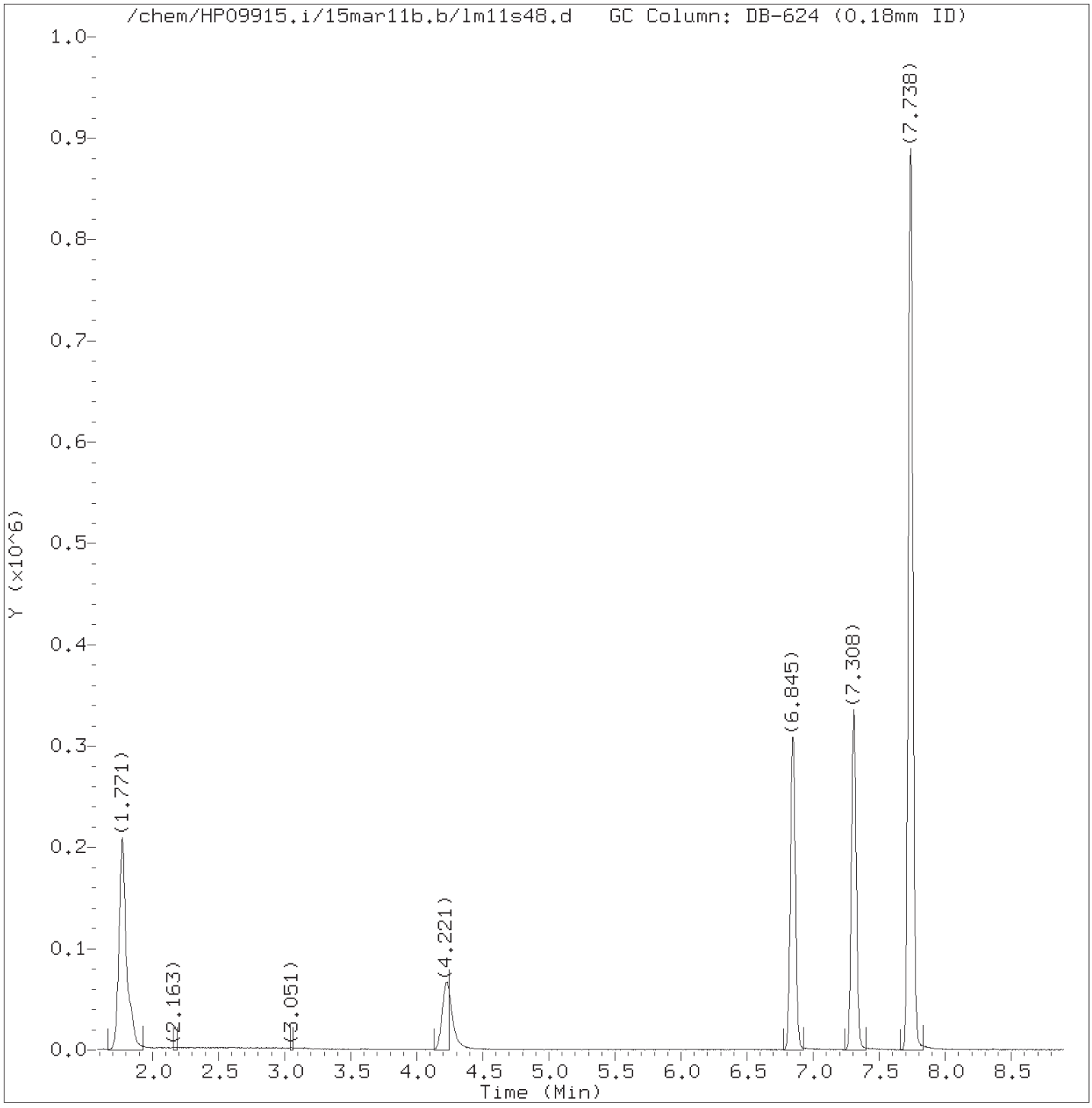
Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ (in sample)
108) Xylene (Total)	(3)				Not Detected					0.5	1
110) Bromoform	(3)				Not Detected					0.5	4
116) 1,1,2,2-Tetrachloroethane	(4)				Not Detected					0.5	1

Total number of targets = 34

Digitally signed by Kevin A. Sposito on 03/11/2015 at 22:34. Target 3.5 esignature user ID: kas02648

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:15. Parallax ID: cbs01947



Total Ion Chromatogram (TIC)

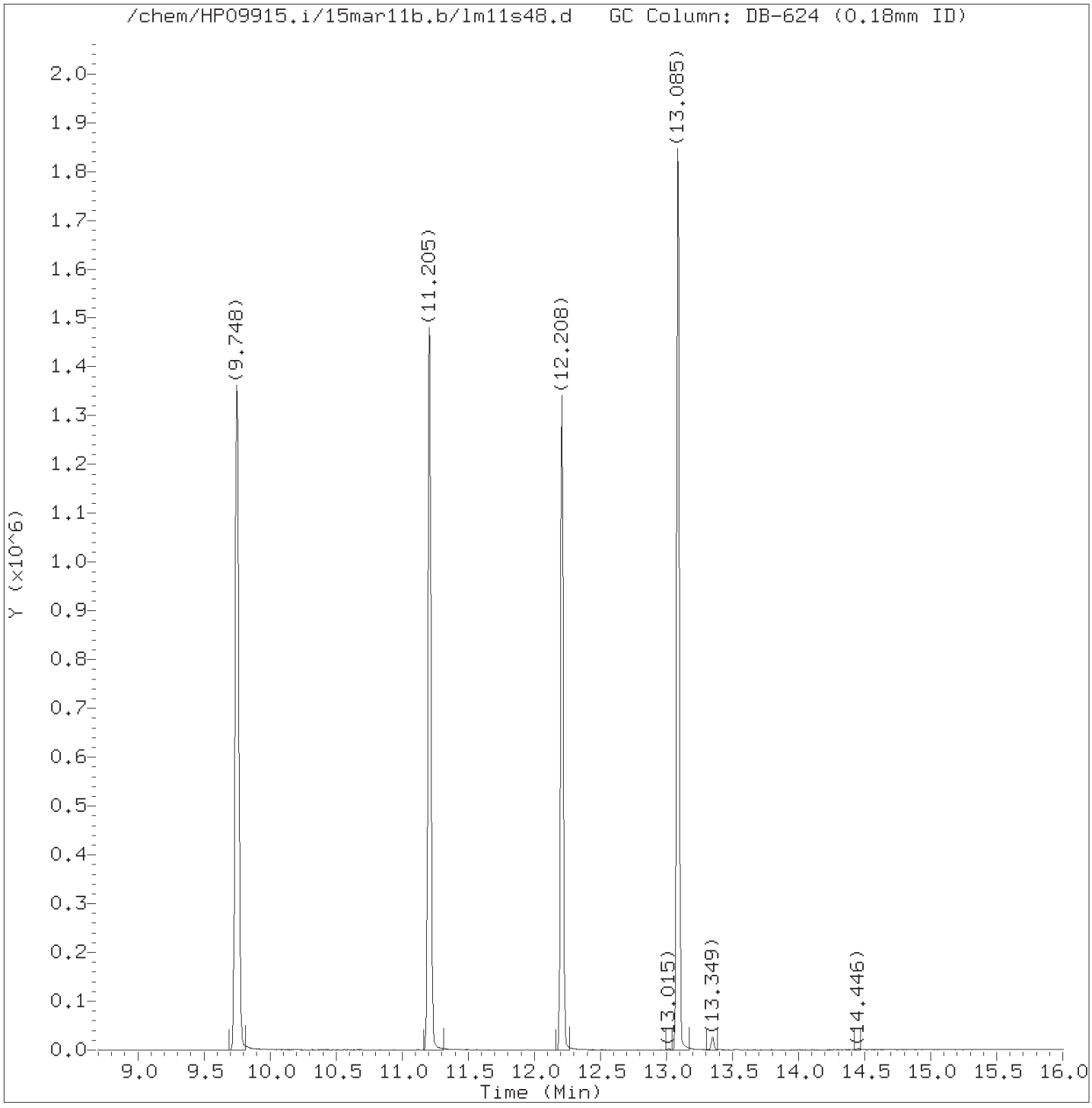
Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s48.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 21:09 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:28 Automation

Sample Name: BKOFB Lab Sample ID: 7798169

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:34.
Target 3.5 esignature user ID: kas02648



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s48.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 21:09 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:28 Automation

Sample Name: BKOFB Lab Sample ID: 7798169

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:34.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s48.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 21:09 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:28 Automation

Sample Name: BKOFB Lab Sample ID: 7798169

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
29)*t-Butyl alcohol-d10	(1)	4.234	65	179614	250.000
52)$Dibromofluoromethane	(2)	6.845	113	261561	49.248
57)$1,2-Dichloroethane-d4	(2)	7.308	102	67750	51.529
66)*Fluorobenzene	(2)	7.738	96	1111552	50.000
83)$Toluene-d8	(3)	9.748	98	1070573	48.557
100)*Chlorobenzene-d5	(3)	11.205	117	846816	50.000
114)$4-Bromofluorobenzene	(3)	12.208	95	400735	45.653
131)*1,4-Dichlorobenzene-d4	(4)	13.085	152	457271	50.000

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

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:34.
Target 3.5 esignature user ID: kas02648

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKOTB

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798170

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s49.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
107-02-8	Acrolein	100	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	4	U
107-13-1	Acrylonitrile	20	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethyl Vinyl Ether	10	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (Total)	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BKOTB

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: 7798170

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s49.d

Level: (low/med) LOW Date Received: 03/10/15

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
75-25-2	Bromoform		4	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U

FORM I VOA

BKOTB

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

7798170

Data file: /chem/HP09915.i/15mar11b.b/lm11s49.d
Data file Sample Info. Line: BKOTB;7798170;1;0;;OSP16;;;lm11b05;
Date, time and analyst ID of latest file update: 11-Mar-2015 21:50 Automation

Injection date and time: **11-MAR-2015 21:31**
Instrument ID: **HP09915.i** Batch: **L150702AA**

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
29) t-Butyl alcohol-d10	4.234	(-0.016)	825	65	169569	(-29)	250.00	
66) Fluorobenzene	7.739	(-0.003)	1915	96	1128871	(-17)	50.00	
100) Chlorobenzene-d5	11.205	(0.003)	2993	117	853810	(-16)	50.00	
131) 1,4-Dichlorobenzene-d4	13.089	(-0.003)	3579	152	450175	(-18)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(2)	6.848	(0.000)	113	262186	48.608	97%		80 - 116
57) 1,2-Dichloroethane-d4	(2)	7.311	(0.000)	102	67482	50.537	101%		77 - 113
83) Toluene-d8	(3)	9.748	(0.000)	98	1079406	48.556	97%		80 - 113
114) 4-Bromofluorobenzene	(3)	12.208	(0.000)	95	398813	45.062	90%		78 - 113

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
4) Chloromethane	(2)				Not Detected					0.5	1
6) Vinyl Chloride	(2)				Not Detected					0.5	1
8) Bromomethane	(2)				Not Detected					0.5	1
9) Chloroethane	(2)				Not Detected					0.5	1
12) Trichlorofluoromethane	(2)				Not Detected					0.5	1
16) Acrolein	(1)				Not Detected					40	100
17) 1,1-Dichloroethene	(2)				Not Detected					0.5	1
28) Methylene Chloride	(2)				Not Detected					2	4
31) Acrylonitrile	(2)				Not Detected					4	20
32) trans-1,2-Dichloroethene	(2)				Not Detected					0.5	1
36) 1,1-Dichloroethane	(2)				Not Detected					0.5	1
42) cis-1,2-Dichloroethene	(2)				Not Detected					0.5	1
51) Chloroform	(2)				Not Detected					0.5	1
53) 1,1,1-Trichloroethane	(2)				Not Detected					0.5	1
56) Carbon Tetrachloride	(2)				Not Detected					0.5	1
60) Benzene	(2)				Not Detected					0.5	1
61) 1,2-Dichloroethane	(2)				Not Detected					0.5	1
71) Trichloroethene	(2)				Not Detected					0.5	1
73) 1,2-Dichloropropane	(2)				Not Detected					0.5	1
78) Bromodichloromethane	(2)				Not Detected					0.5	1
80) 2-Chloroethyl Vinyl Ether	(2)				Not Detected					2	10
81) cis-1,3-Dichloropropene	(2)				Not Detected					0.5	1
88) Toluene	(3)				Not Detected					0.5	1
89) trans-1,3-Dichloropropene	(3)				Not Detected					0.5	1
92) 1,1,2-Trichloroethane	(3)				Not Detected					0.5	1
93) Tetrachloroethene	(3)				Not Detected					0.5	1
97) Dibromochloromethane	(3)				Not Detected					0.5	1
102) Chlorobenzene	(3)				Not Detected					0.5	1
104) Ethylbenzene	(3)				Not Detected					0.5	1
106) m+p-Xylene	(3)				Not Detected					0.5	1
107) o-Xylene	(3)				Not Detected					0.5	1

Digitally signed by Kevin A. Sposito on 03/11/2015 at 22:35. Target 3.5 esignature user ID: kas02648

Data file: /chem/HP09915.i/15mar11b.b/lm11s49.d Injection date and time: **11-MAR-2015 21:31**
Data file Sample Info. Line: BKOTB;7798170;1;0;;OSP16;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 21:50 Automation

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **12985**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.d**

Bottle Code: **038A** 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**

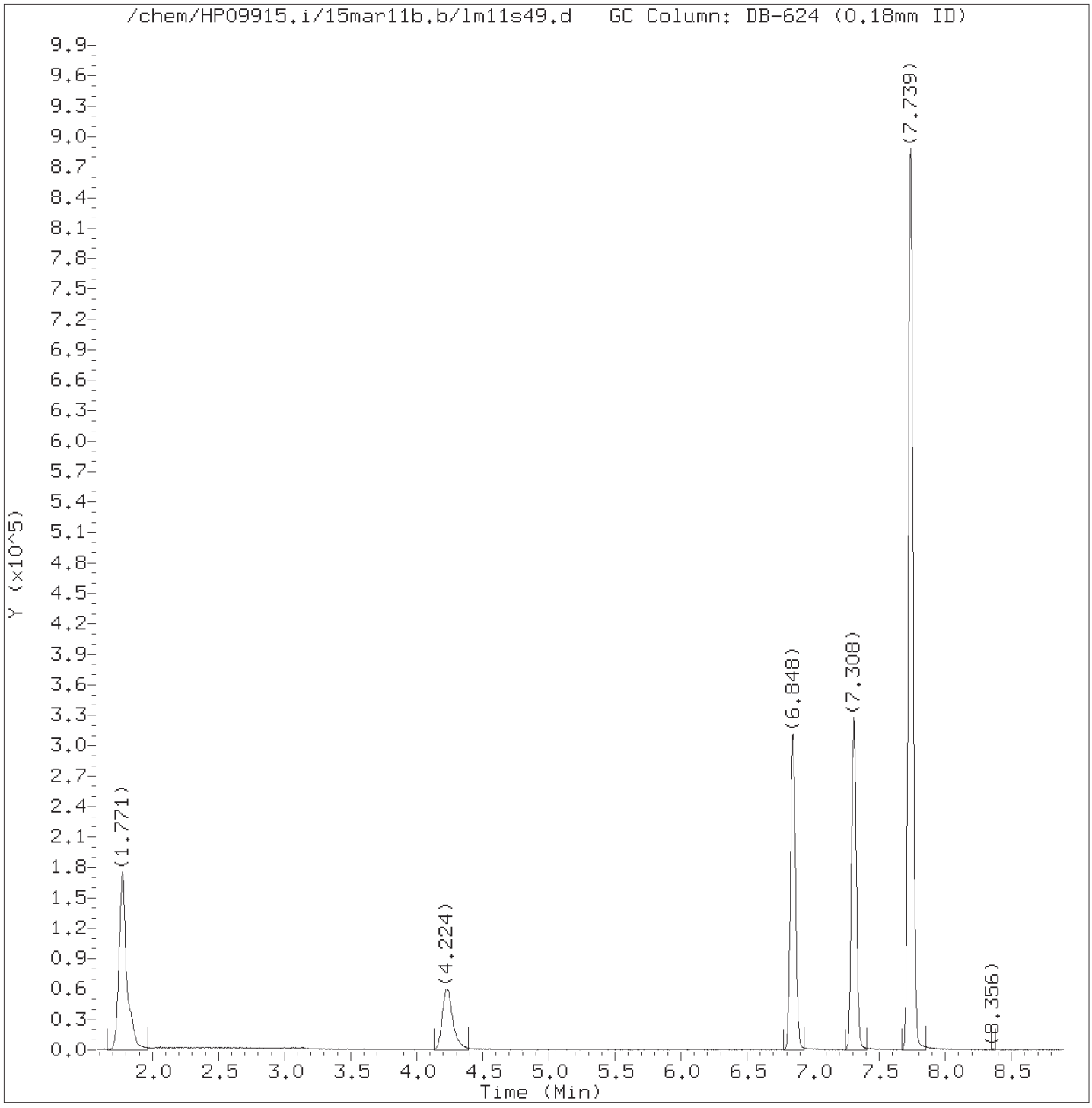
Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
108) Xylene (Total)	(3)				Not Detected					0.5	1
110) Bromoform	(3)				Not Detected					0.5	4
116) 1,1,2,2-Tetrachloroethane	(4)				Not Detected					0.5	1

Total number of targets = 34

Digitally signed by Kevin A. Sposito on 03/11/2015 at 22:35. Target 3.5 esignature user ID: kas02648

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:15. Parallax ID: cbs01947



Total Ion Chromatogram (TIC)

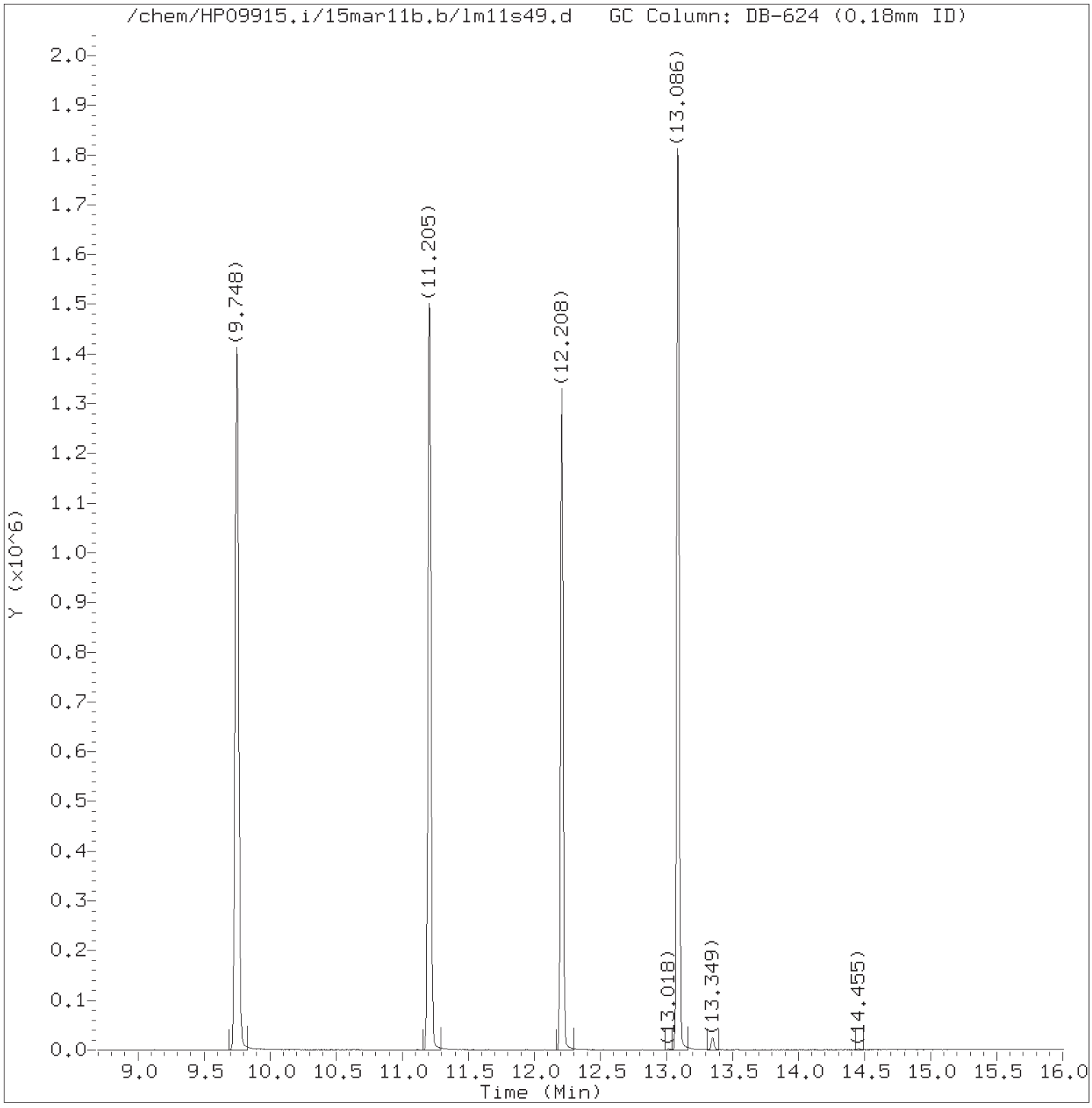
Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s49.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 21:31 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:50 Automation

Sample Name: BKOTB Lab Sample ID: 7798170

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:35.
Target 3.5 esignature user ID: kas02648



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s49.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 21:31 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:50 Automation

Sample Name: BKOTB Lab Sample ID: 7798170

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:35.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s49.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 21:31 Analyst ID: KAS02648

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 12985
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 21:50 Automation

Sample Name: BKOTB Lab Sample ID: 7798170

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
29)*t-Butyl alcohol-d10	(1)	4.234	65	169569	250.000
52)$Dibromofluoromethane	(2)	6.848	113	262186	48.608
57)$1,2-Dichloroethane-d4	(2)	7.311	102	67482	50.537
66)*Fluorobenzene	(2)	7.739	96	1128871	50.000
83)$Toluene-d8	(3)	9.748	98	1079406	48.556
100)*Chlorobenzene-d5	(3)	11.205	117	853810	50.000
114)$4-Bromofluorobenzene	(3)	12.208	95	398813	45.062
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	450175	50.000

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

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 22:35.
Target 3.5 esignature user ID: kas02648

Standards Data

Volatiles by GC/MS

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09915 **HP #23**

** Shift #1 Analyst:_____** Shift #2 Analyst:_____** 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:

_____

_____

_____

_____

Data Directory Path is - d:\data\15JAN27A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
LJ27T01.D	BFB SEP05-14	50NGBFB	27 Jan 15	12:04			
LJ27X05.D	BLK	BLK	27 Jan 15	12:51			
LJ27I01.D	VSTD300	VSTD300	27 Jan 15	13:13			
LJ27I02.D	VSTD100	VSTD100	27 Jan 15	13:36			
LJ27I03.D	VSTD050	VSTD050	27 Jan 15	14:07			
LJ27I08.D	VSTD050	VSTD050	27 Jan 15	14:36			
LJ27I04.D	VSTD020	VSTD020	27 Jan 15	16:09			
LJ27I05.D	VSTD010	VSTD010	27 Jan 15	16:32			
LJ27I09.D	VSTD020	VSTD020	27 Jan 15	16:54			
LJ27I06.D	VSTD004	VSTD004	27 Jan 15	17:16			
LJ27I07.D	VSTD001	VSTD001	27 Jan 15	17:39			
LJ27M01.D	MDLD0.5	MDL 0.5	27 Jan 15	18:01			
LJ27V01.D	LGLICV	LGLICV	27 Jan 15	18:23			

Lancaster Laboratories
Volatiles
Runlog for Agilent GC/MS System HP09915 **HP #23**

Data Directory Path is - d:\data\15MAR11B\

OPERATOR	FILE	LLI#	DATE	TIME	BATCH	DILUTION FACTOR
ADS01731	LM11T05.D	50NGBFB	03/11/2015	13:39		
ADS01731	LM11C01.D	VSTD050	03/11/2015	14:02	L150702AA	
ADS01731	LM11C02.D	VSTD050	03/11/2015	14:24	L150702AA	
ADS01731	LM11B05.D	VBLKL64	03/11/2015	14:47	L150702AA	
ADS01731	LM11S41.D	LCSL64	03/11/2015	15:09	L150702AA	
ADS01731	LM11S42.D	LCDL64	03/11/2015	15:32	L150702AA	
ADS01731	LM11S43.D	LCSL65	03/11/2015	15:54	L150702AA	
ADS01731	LM11S44.D	LCDL65	03/11/2015	16:16	L150702AA	
ADS01731	LM11M05.D	MDL001	03/11/2015	16:39	L150702AA	
ADS01731	LM11S41A.D	LCSL64	03/11/2015	17:01	L150702AA	
ADS01731	LM11S42A.D	LCDL64	03/11/2015	17:24	L150702AA	
KAS02648	LM11S55.D	7797671	03/11/2015	18:04	L150702AA	
KAS02648	LM11S56.D	7797670	03/11/2015	18:27	L150702AA	500
KAS02648	LM11S45.D	7798166	03/11/2015	18:49	L150702AA	
KAS02648	LM11S57.D	7797671	03/11/2015	19:17	L150702AA	
KAS02648	LM11S58.D	7797670	03/11/2015	19:39	L150702AA	20
KAS02648	LM11X21.D	BLANK	03/11/2015	20:02		
KAS02648	LM11S46.D	7798167	03/11/2015	20:24	L150702AA	
KAS02648	LM11S47.D	7798168	03/11/2015	20:47	L150702AA	
KAS02648	LM11S48.D	7798169	03/11/2015	21:09	L150702AA	
KAS02648	LM11S49.D	7798170	03/11/2015	21:31	L150702AA	
KAS02648	LM11S50.D	7795002DL	03/11/2015	21:54	L150702AA	100
KAS02648	LM11S51.D	7795003DL	03/11/2015	22:16	L150702AA	100
KAS02648	LM11S52.D	7795004DL	03/11/2015	22:38	L150702AA	100
KAS02648	LM11S53.D	7795007DL	03/11/2015	23:00	L150702AA	100
KAS02648	LM11S54.D	7795008DL	03/11/2015	23:23	L150702AA	100

Data File: /chem/HP09915.i/15jan27i.b/lj27t01.d

Date : 27-JAN-2015 12:04

Client ID: BFB SEP05-14

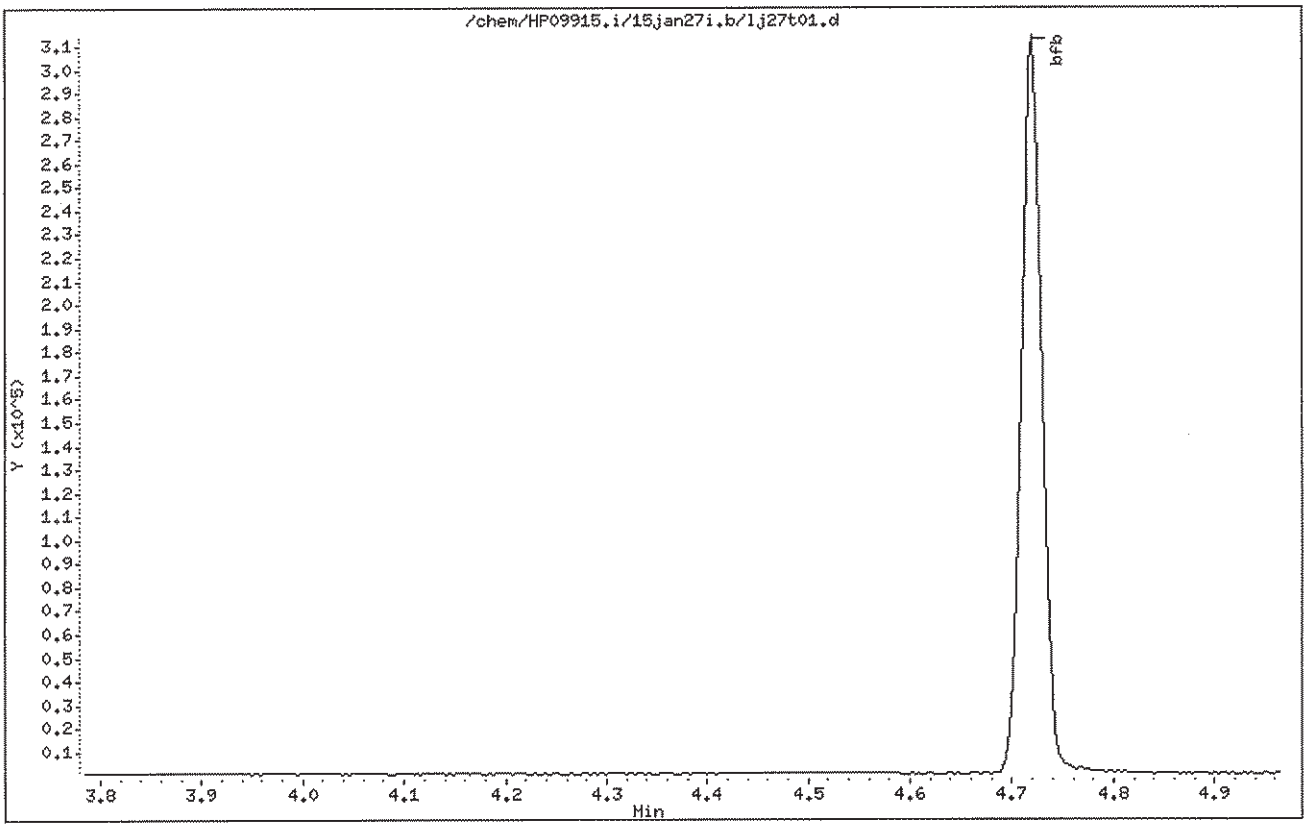
Instrument: HP09915.i

Sample Info: BFB SEP05-14;50NGBFB;1;3;;;;;;;

Operator: KEL01973

Column phase: Rxi-624Sil MS

Column diameter: 0.25



Digitally signed by Amanda K. Richards on 02/03/2015 at 18:45.
Target 3.5 esignature user ID: akr02850

Data File: /chem/HP09915.i/15jan27i.b/1j27t01.d

Date : 27-JAN-2015 12:04

Client ID: BFB SEP05-14

Instrument: HP09915.i

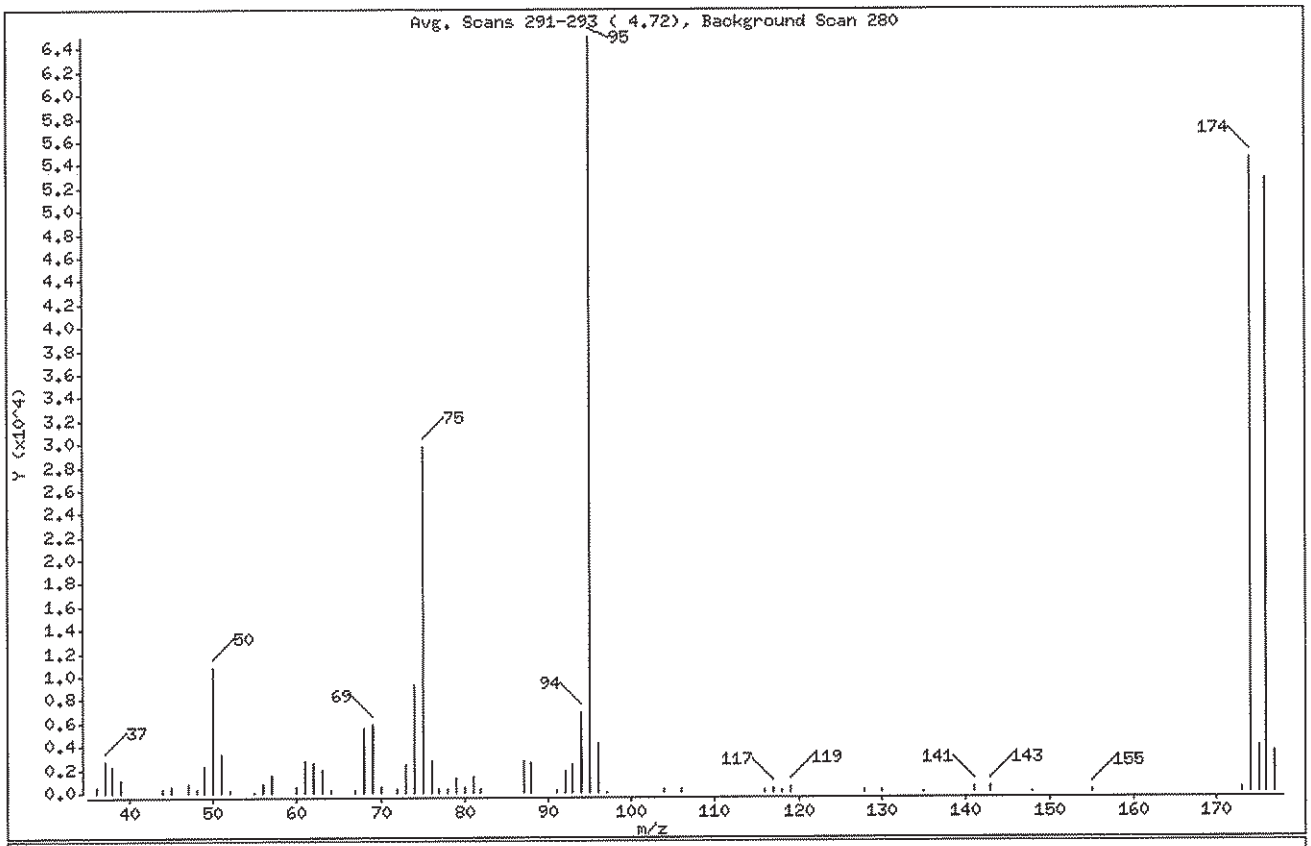
Sample Info: BFB SEP05-14;50NGBFB;1;3;;;;;;;

Operator: KEL01973

Column phase: Rxi-624Sil MS

Column diameter: 0.25

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	16.50
75	30.00 - 60.00% of mass 95	45.66
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.36 (0.43)
174	50.00 - 100.00% of mass 95	84.00
175	5.00 - 9.00% of mass 174	5.95 (7.08)
176	95.00 - 101.00% of mass 174	81.14 (96.60)
177	5.00 - 9.00% of mass 176	5.30 (6.53)

Digitally signed by Amanda K. Richards on 02/03/2015 at 18:45.
Target 3.5 esignature user ID: akr02850

Data File: /chem/HP09915.i/15jan27i.b/lj27t01.d

Date : 27-JAN-2015 12:04

Client ID: BFB SEP05-14 Instrument: HP09915.i

Sample Info: BFB SEP05-14;50NGBFB;1;3;;;;;;

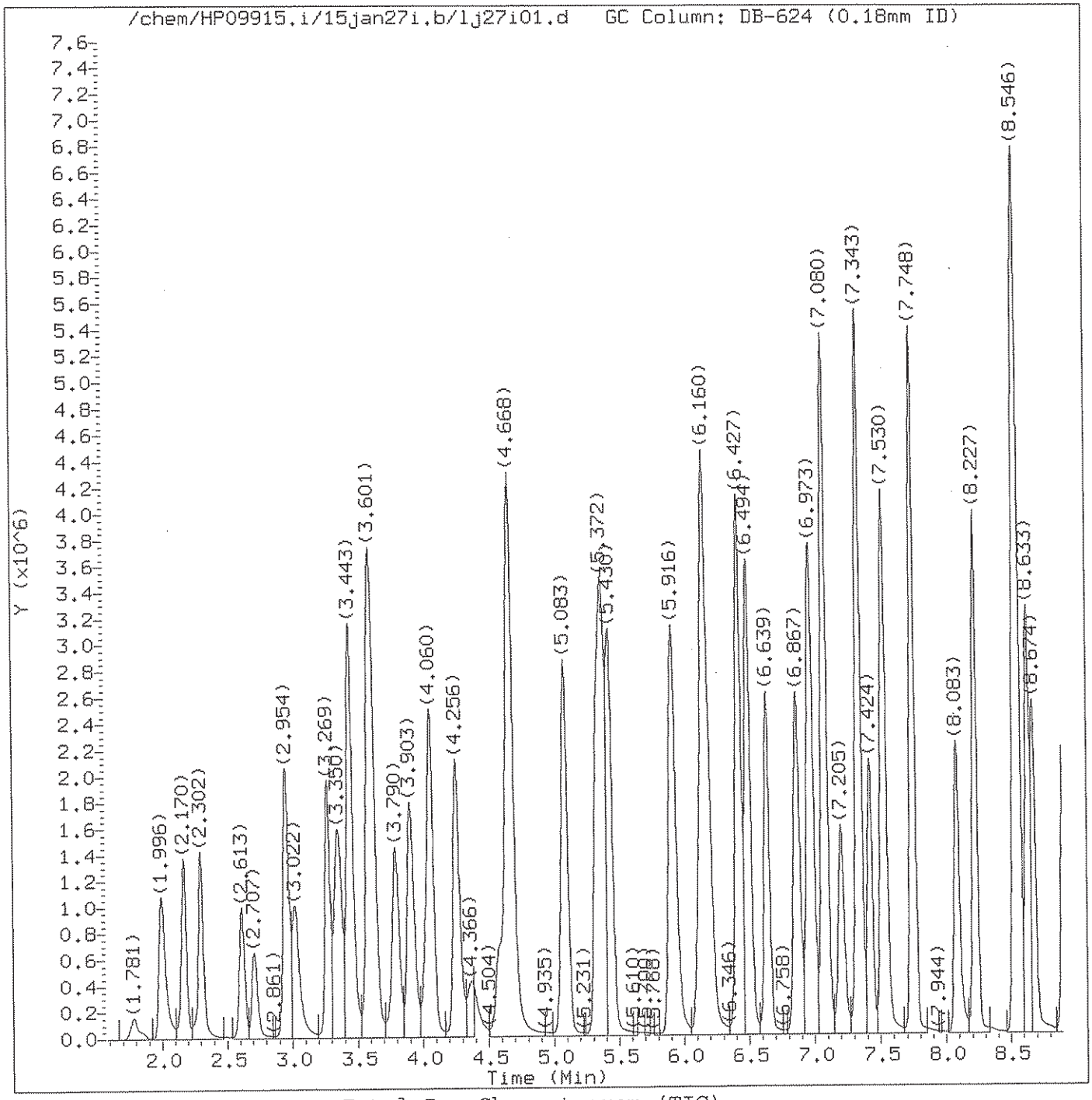
Operator: KEL01973

Column phase: Rxi-624Sil MS Column diameter: 0.25

Data File: lj27t01.d
Spectrum: Avg. Scans 291-293 (4.72), Background Scan 280
Location of Maximum: 95.00
Number of points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	506	61.00	2668	80.00	407	118.00	193
37.00	2752	62.00	2472	81.00	1313	119.00	374
38.00	2306	63.00	1937	82.00	281	128.00	126
39.00	976	64.00	186	87.00	2647	130.00	202
44.00	367	67.00	138	88.00	2554	135.00	51
45.00	480	68.00	5576	91.00	137	141.00	522
47.00	723	69.00	5784	92.00	1736	143.00	493
48.00	361	70.00	441	93.00	2345	148.00	72
49.00	2294	72.00	247	94.00	6836	155.00	180
50.00	10718	73.00	2444	95.00	64968	173.00	235
51.00	3356	74.00	9261	96.00	4237	174.00	54568
52.00	131	75.00	29664	97.00	55	175.00	3863
55.00	55	76.00	2705	104.00	251	176.00	52712
56.00	737	77.00	322	106.00	226	177.00	3442
57.00	1479	78.00	242	116.00	213		
60.00	518	79.00	1180	117.00	341		

Digitally signed by Amanda K. Richards on 02/03/2015 at 18:45.
Target 3.5 esignature user ID: akr02850



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d
Injection date and time: 27-JAN-2015 13:13

Instrument ID: HP09915.i
Analyst ID: KEL01973

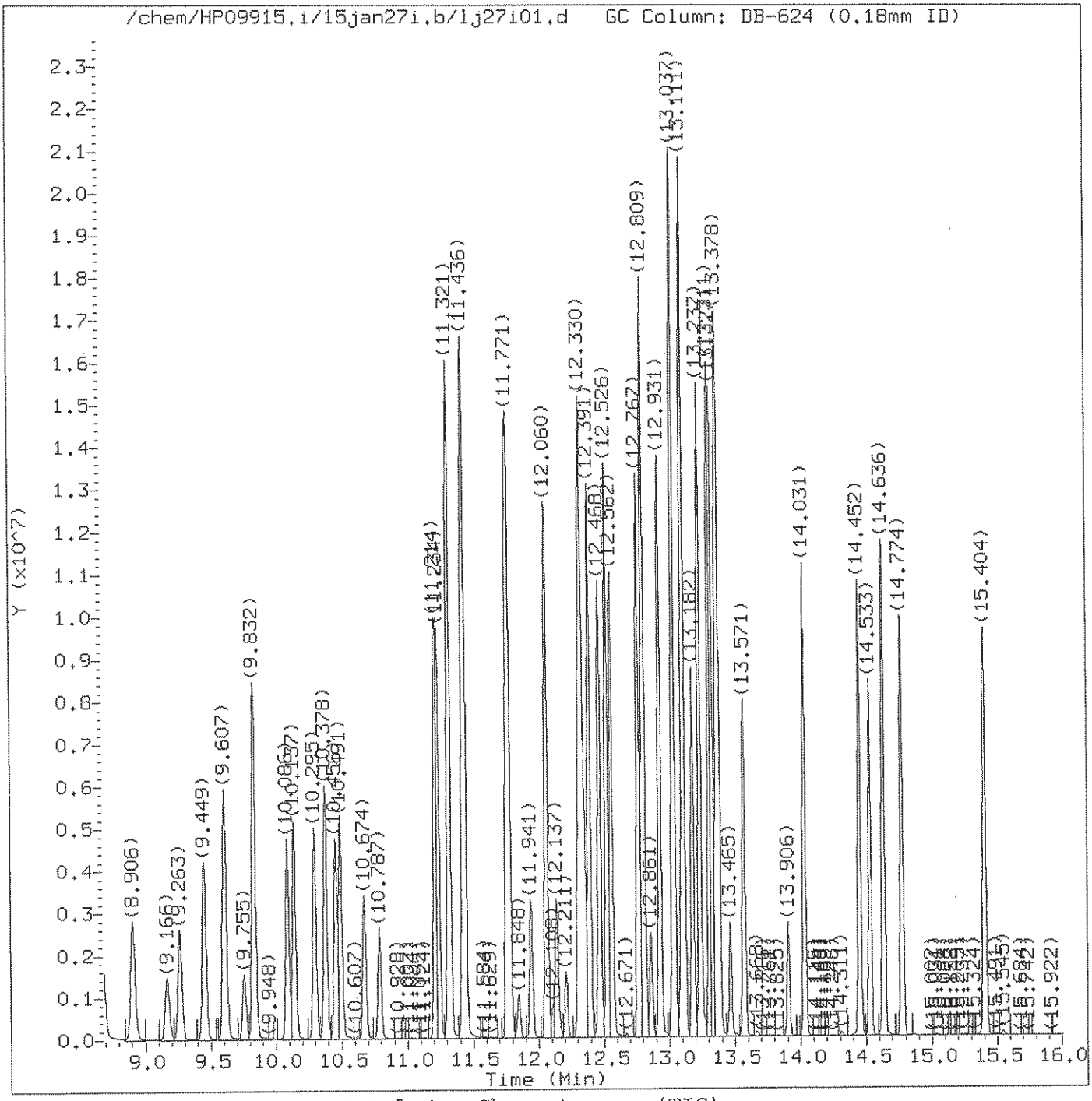
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sublist used: 8260W-BN

Sample Name: VSTD300

Lab Sample ID: VSTD300

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d
Injection date and time: 27-JAN-2015 13:13

Instrument ID: HP09915.i
Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29

Sublist used: 8260W-BN

Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD300

Lab Sample ID: VSTD300

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.996	85	2330620	350.847
4) Chloromethane	(2)	2.170	50	2239658	317.947
6) Vinyl Chloride	(2)	2.302	62	2087227	319.656
8) Bromomethane	(2)	2.613	94	1037200	266.228
9) Chloroethane	(2)	2.707	64	955971	270.918
43) 1,2-Dichloroethene (Total)	(2)		96	3430714	606.503
10) Dichlorofluoromethane	(2)	2.951	67	2603499	289.910
12) Trichlorofluoromethane	(2)	3.022	101	2355556	333.097
14) Ethyl ether	(2)	3.269	59	1633352	312.741
15) Freon 123a	(2)	3.350	67	1942865	305.714
16) Acrolein	(1)	3.443	56	5039803	3052.009
17) 1,1-Dichloroethene	(2)	3.588	96	1442721	304.563
17) 1,1-Dichloroethene	(2)	3.584	63	727262	302.263
18) Acetone	(1)	3.607	58	428884M	644.574
19) Freon 113	(2)	3.617	101	1554996	324.205
21) 2-Propanol	(1)	3.768	45	817409	1443.508
22) Methyl Iodide	(2)	3.790	142	2648672	309.405
23) Carbon Disulfide	(2)	3.906	76	5104877	323.190
27) Methyl Acetate	(2)	4.025	43	1654130	303.314
25) Allyl Chloride	(2)	4.064	41	2542016	312.379
29)*t-Butyl alcohol-d10	(1)	4.240	65	218872	250.000
28) Methylene Chloride	(2)	4.256	84	1720767	299.884
30) t-Butyl alcohol	(1)	4.372	59	1366115	1467.340
31) Acrylonitrile	(2)	4.578	53	930322	334.339
33) Methyl Tertiary Butyl Ether	(2)	4.658	73	5260895	301.641
32) trans-1,2-Dichloroethene	(2)	4.674	96	1622357	301.330
34) n-Hexane	(2)	5.083	57	2604927	320.532
36) 1,1-Dichloroethane	(2)	5.330	63	3001384	302.382
38) di-Isopropyl ether	(2)	5.379	45	5655166	302.037
39) 2-Chloro-1,3-butadiene	(2)	5.433	53	2642962	313.499
90) 1,3-Dichloropropene (total)	(3)		100	5811642	682.964
40) Ethyl t-butyl ether	(2)	5.916	59	5477733	303.482
44) 2-Butanone	(2)	6.118	43	2256498	649.474
42) cis-1,2-Dichloroethene	(2)	6.157	96	1808357	305.173
45) 2,2-Dichloropropane	(2)	6.170	77	2379827	316.829
47) Propionitrile	(1)	6.205	54	1763824	1495.574
48) Methacrylonitrile	(2)	6.427	67	2400149	768.018
49) Bromochloromethane	(2)	6.494	128	916549	316.110

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Tetrahydrofuran	(1)	6.501	71	627362	659.975
51) Chloroform	(2)	6.639	83	2889716	306.866
52)$Dibromofluoromethane	(2)	6.858	113	282341	50.542
52)$Dibromofluoromethane	(2)	6.858	111	287635	50.442
53) 1,1,1-Trichloroethane	(2)	6.871	97	2686871	300.741
54) Cyclohexane	(2)	6.973	56	3258571	323.927
54) Cyclohexane	(2)	6.973	84	2621612	322.208
54) Cyclohexane	(2)	6.977	69	994488	326.813
55) 1,1-Dichloropropene	(2)	7.080	75	2310473	310.897
56) Carbon Tetrachloride	(2)	7.080	117	2196266	329.796
58) Isobutyl Alcohol	(1)	7.205	41	1146053	3673.499
57)$1,2-Dichloroethane-d4	(2)	7.317	102	68929	49.843
57)$1,2-Dichloroethane-d4	(2)	7.317	65	326252	50.225
57)$1,2-Dichloroethane-d4	(2)	7.317	104	44167	56.203
60) Benzene	(2)	7.343	78	6937815	300.704
61) 1,2-Dichloroethane	(2)	7.424	62	2257221	310.308
61) 1,2-Dichloroethane	(2)	7.424	98	227939	326.045
65) t-Amyl methyl ether	(2)	7.526	73	5304498	304.608
66)*Fluorobenzene	(2)	7.745	96	1169135	50.000
67) n-Heptane	(2)	7.748	43	2749259	319.932
108) Xylene (Total)	(3)		106	8693261	825.114
69) n-Butanol	(1)	8.086	56	2126379	7736.893
71) Trichloroethene	(2)	8.227	95	1815303	308.806
72) Methylcyclohexane	(2)	8.539	83	3337854	327.187
72) Methylcyclohexane	(2)	8.539	98	1507947	328.704
73) 1,2-Dichloropropane	(2)	8.568	63	1915560	312.526
76) Methyl Methacrylate	(2)	8.633	69	1654318	323.186
75) 1,4-Dioxane	(1)	8.652	88	363039M	3864.266
74) Dibromomethane	(2)	8.678	93	1205294	316.124
78) Bromodichloromethane	(2)	8.906	83	2387381M	338.115
79) 2-Nitropropane	(2)	9.166	41	1203099	600.048
80) 2-Chloroethyl Vinyl Ether	(2)	9.263	63	1449042	325.888
81) cis-1,3-Dichloropropene	(2)	9.449	75	3023835	337.302
82) 4-Methyl-2-pentanone	(2)	9.607	43	4839411	637.506
83)$Toluene-d8	(3)	9.755	98	1188116	51.623
83)$Toluene-d8	(3)	9.755	100	783184	51.760
141) Diethylbenzene (total)	(4)		100	12864830	787.617
88) Toluene	(3)	9.832	92	4246059	295.718

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
89) trans-1,3-Dichloropropene	(3)	10.086	75	2787807	345.662
91) Ethyl Methacrylate	(3)	10.137	69	2943332	319.670
92) 1,1,2-Trichloroethane	(3)	10.295	97	1655205	304.665
93) Tetrachloroethene	(3)	10.378	166	1855237	303.540
94) 1,3-Dichloropropane	(3)	10.456	76	2915722	309.220
96) 2-Hexanone	(3)	10.491	43	3481635	630.811
97) Dibromochloromethane	(3)	10.674	129	1894969	346.125
99) 1,2-Dibromoethane	(3)	10.787	107	1843520	316.342
100)*Chlorobenzene-d5	(3)	11.208	117	883970	50.000
101) 1-Chlorohexane	(3)	11.214	91	2381855	303.564
102) Chlorobenzene	(3)	11.237	112	4656280	295.469
104) Ethylbenzene	(3)	11.321	91	7707552	280.176
103) 1,1,1,2-Tetrachloroethane	(3)	11.321	131	1592804	309.339
106) m+p-Xylene	(3)	11.436	106	5795361	545.940
107) o-Xylene	(3)	11.761	106	2897900	279.174
109) Styrene	(3)	11.780	104	4992818	287.212
110) Bromoform	(3)	11.941	173	1463450	358.205
111) Isopropylbenzene	(3)	12.060	105	7980730	287.330
112) Cyclohexanone	(1)	12.137	55	1446697	4154.901
114)$4-Bromofluorobenzene	(3)	12.211	95	483905	52.811
114)$4-Bromofluorobenzene	(3)	12.211	174	395191	52.808
116) 1,1,2,2-Tetrachloroethane	(4)	12.304	83	2516824	281.044
115) Bromobenzene	(4)	12.327	156	1981056	272.567
118) trans-1,4-Dichloro-2-butene	(4)	12.333	53	1624248	764.807
117) 1,2,3-Trichloropropane	(4)	12.356	110	737735	284.566
119) n-Propylbenzene	(4)	12.391	91	9427153	269.504
120) 2-Chlorotoluene	(4)	12.468	126	1987443	288.760
122) 1,3,5-Trimethylbenzene	(4)	12.526	105	6930878	276.925
121) 4-Chlorotoluene	(4)	12.562	126	2068828	288.575
124) tert-Butylbenzene	(4)	12.767	134	1480604M	287.353
125) Pentachloroethane	(4)	12.803	167	1279737	307.739
126) 1,2,4-Trimethylbenzene	(4)	12.809	105	6720508	264.448
127) sec-Butylbenzene	(4)	12.931	105	8663956	269.323
129) 1,3-Dichlorobenzene	(4)	13.034	146	3502968	250.117
130) p-Isopropyltoluene	(4)	13.037	119	7089674	255.932
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	495083	50.000
133) 1,4-Dichlorobenzene	(4)	13.108	146	3614340	249.830
134) 1,2,3-Trimethylbenzene	(4)	13.115	105	6873951	261.923

M = Compound was manually integrated.
* = Compound is an internal standard.
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Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

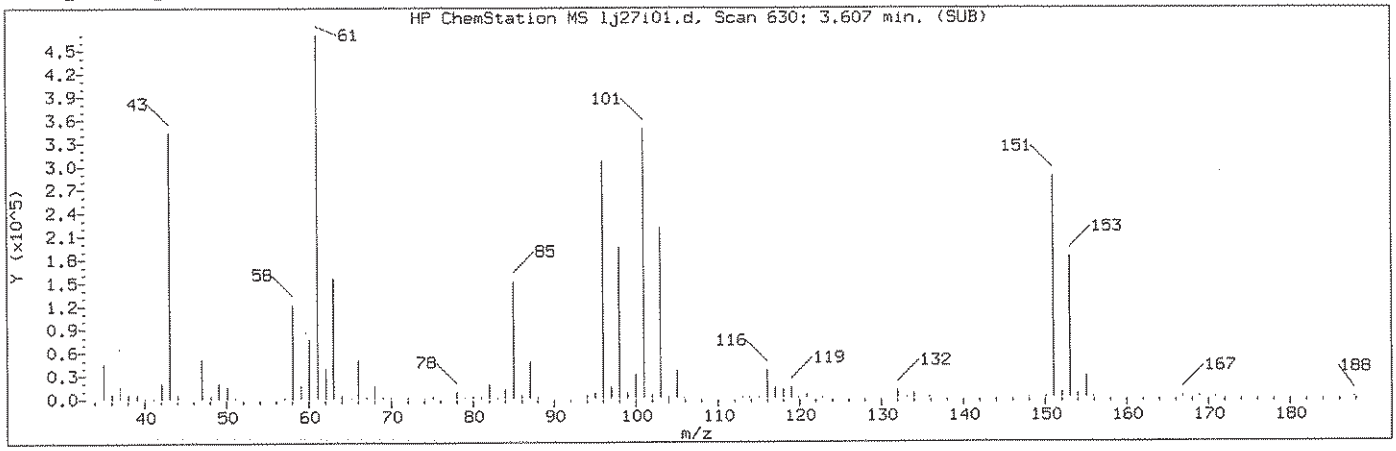
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
135) Benzyl Chloride	(4)	13.182	91	5694246	339.511
136) 1,3-Diethylbenzene	(4)	13.237	119	4647153	267.397
137) 1,4-Diethylbenzene	(4)	13.311	119	4596183	260.677
139) n-Butylbenzene	(4)	13.330	92	3751738	259.968
138) 1,2-Dichlorobenzene	(4)	13.362	146	3677109	259.973
140) 1,2-Diethylbenzene	(4)	13.382	119	3621494	259.543
145) Hexachloroethane	(4)	13.571	201	1253040M	352.954
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	590353	326.595
144) 1,3,5-Trichlorobenzene	(4)	14.031	180	3168623	299.869
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	3021302	299.831
147) Hexachlorobutadiene	(4)	14.533	225	1440602	299.786
148) Naphthalene	(4)	14.636	128	8282169	256.335
149) 1,2,3-Trichlorobenzene	(4)	14.777	180	2855182	299.812
150) 2-Methylnaphthalene	(4)	15.404	142	4736646	299.353

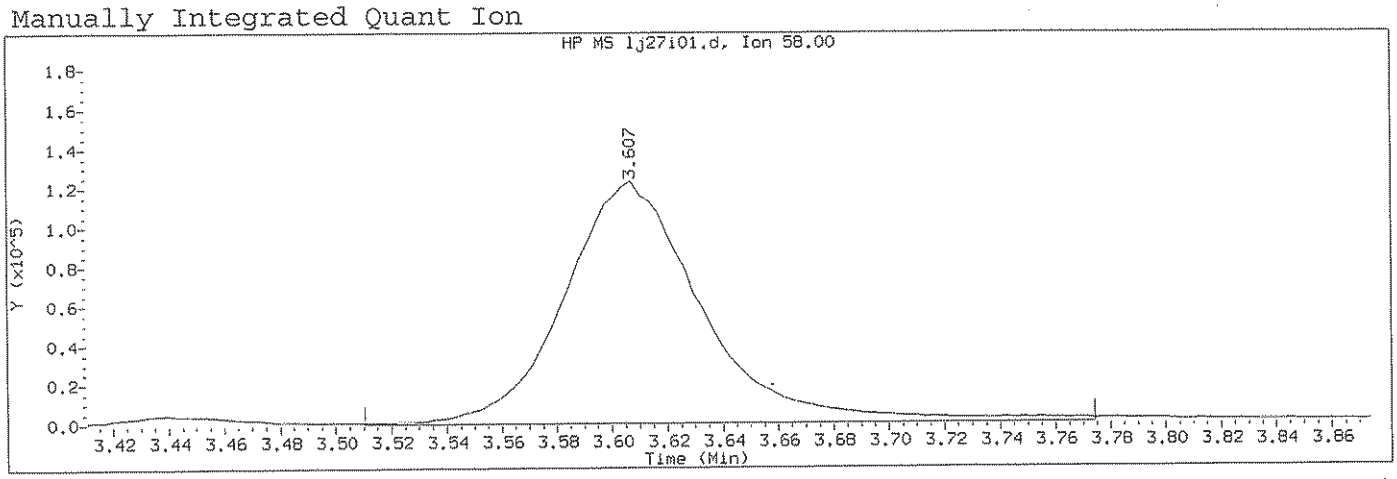
M = Compound was manually integrated.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD300 Lab Sample ID: VSTD300

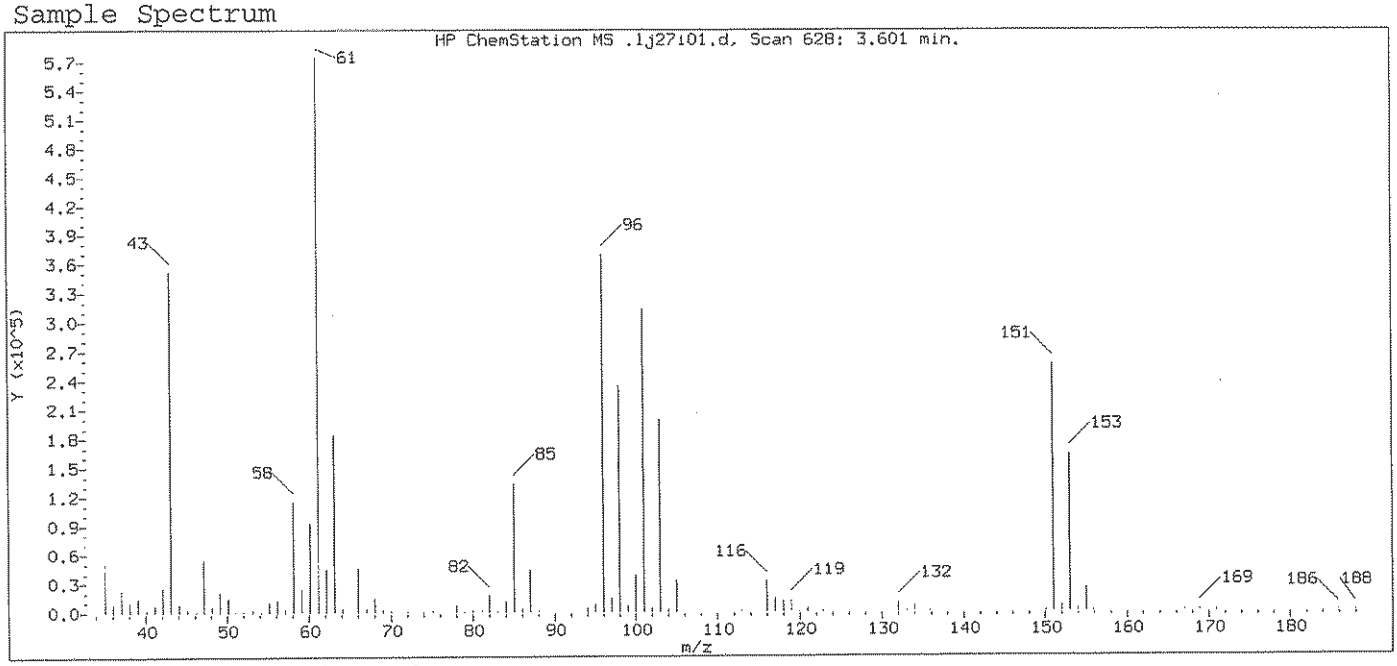
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 630		
Retention Time (minutes)	: 3.607		
Quant Ion	: 58.00		
Area (flag)	: 428884M		
On-Column Amount (ng)	: 644.5742		
Integration start scan	: 599	Integration stop scan:	681
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

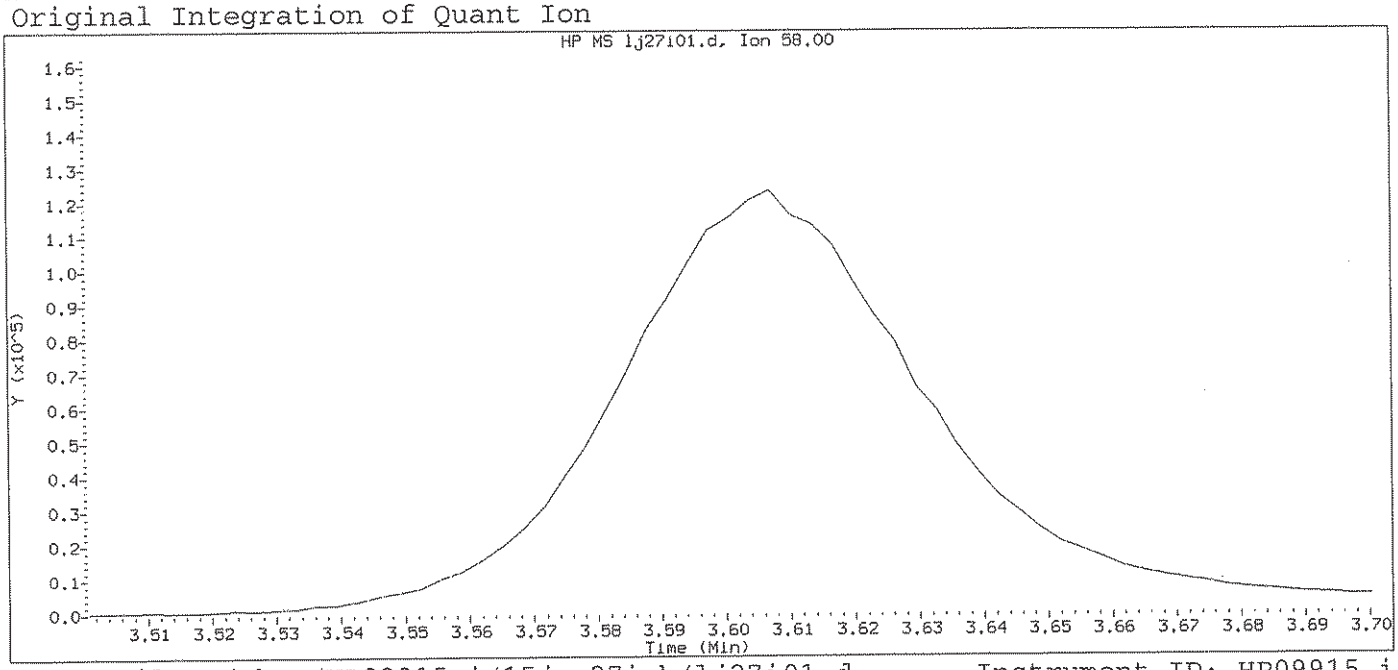
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

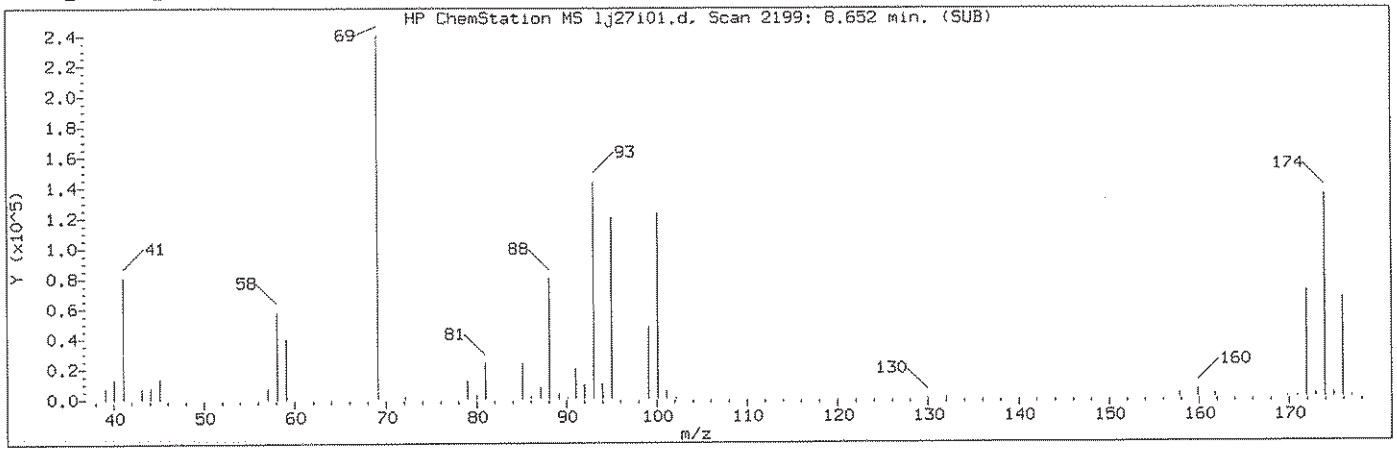
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD300 Lab Sample ID: VSTD300

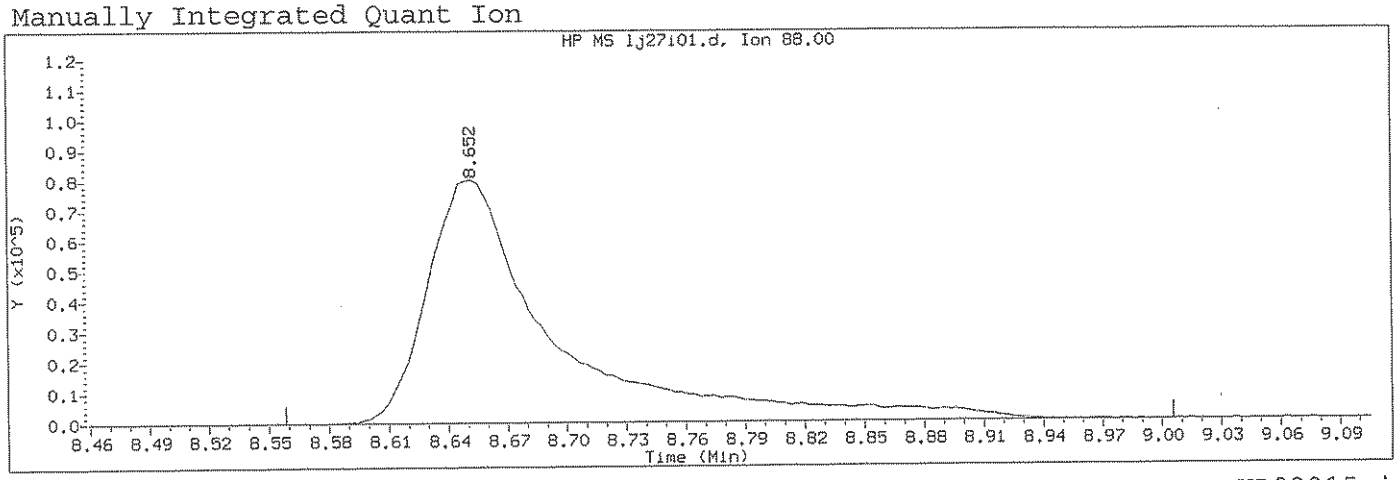
Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD300 Lab Sample ID: VSTD300

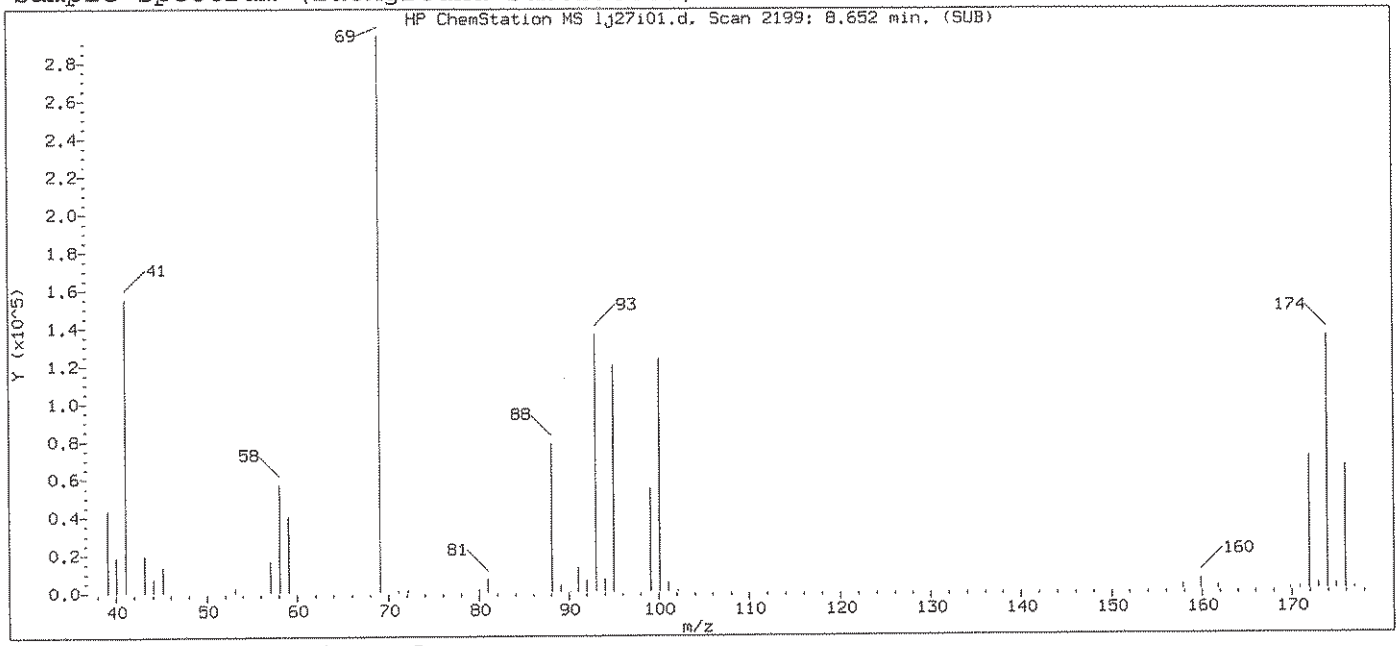
Compound Number : 75
Compound Name : 1,4-Dioxane
Scan Number : 2199
Retention Time (minutes): 8.652
Quant Ion : 88.00
Area (flag) : 363039M
On-Column Amount (ng) : 3864.2656
Integration start scan : 2169 Integration stop scan: 2308
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

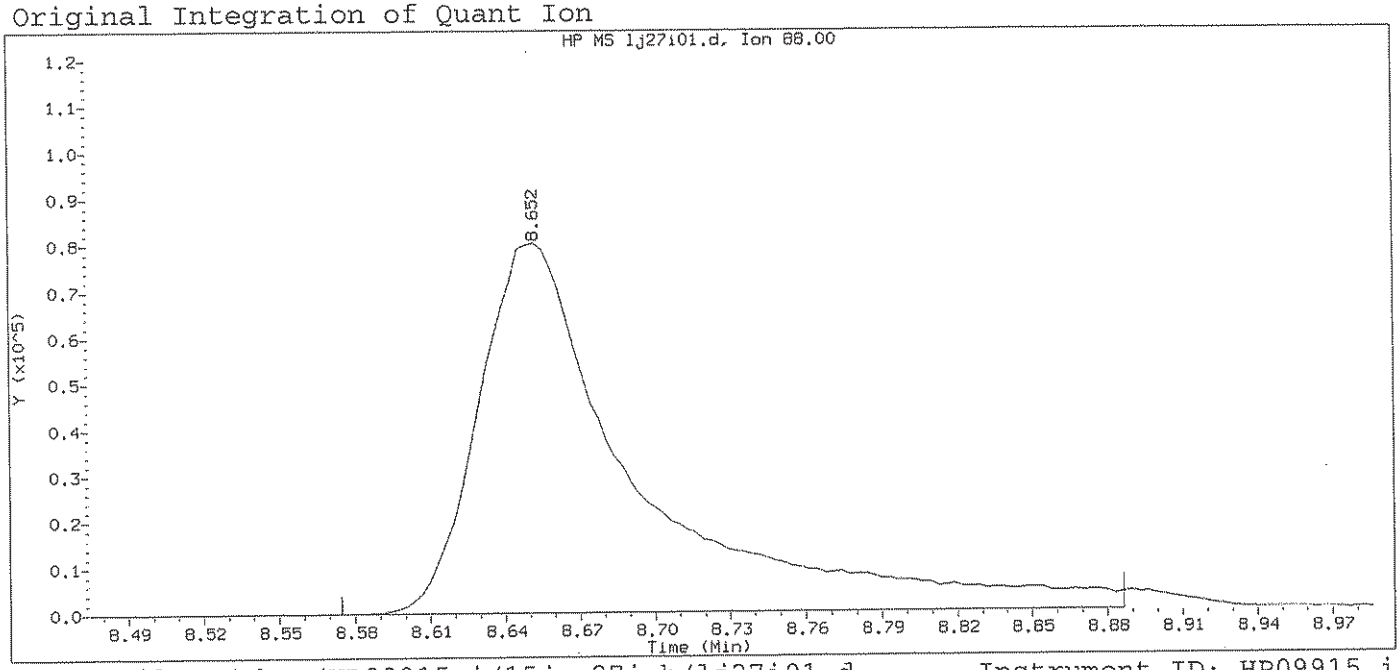
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

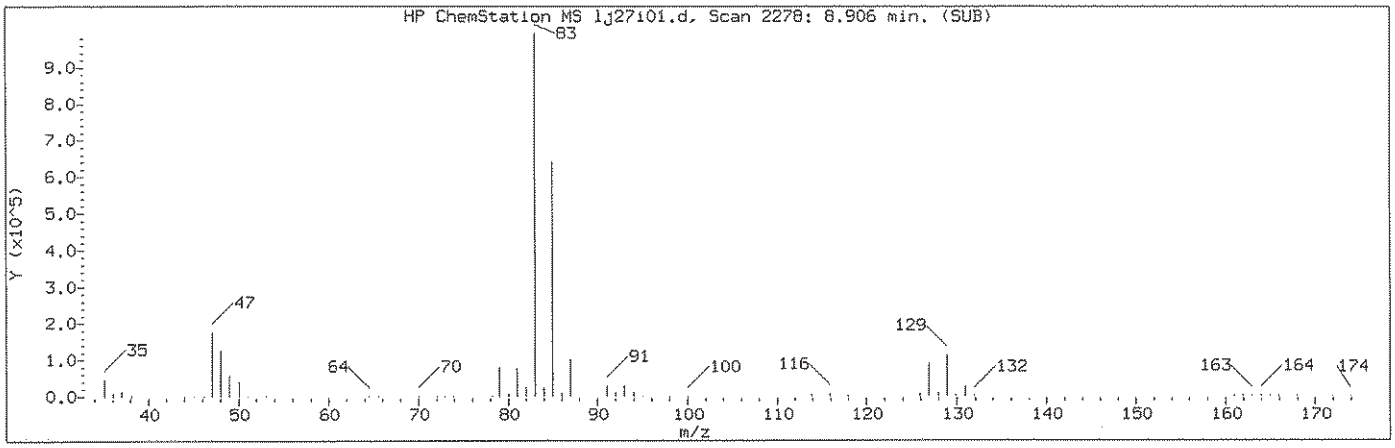
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD300 Lab Sample ID: VSTD300

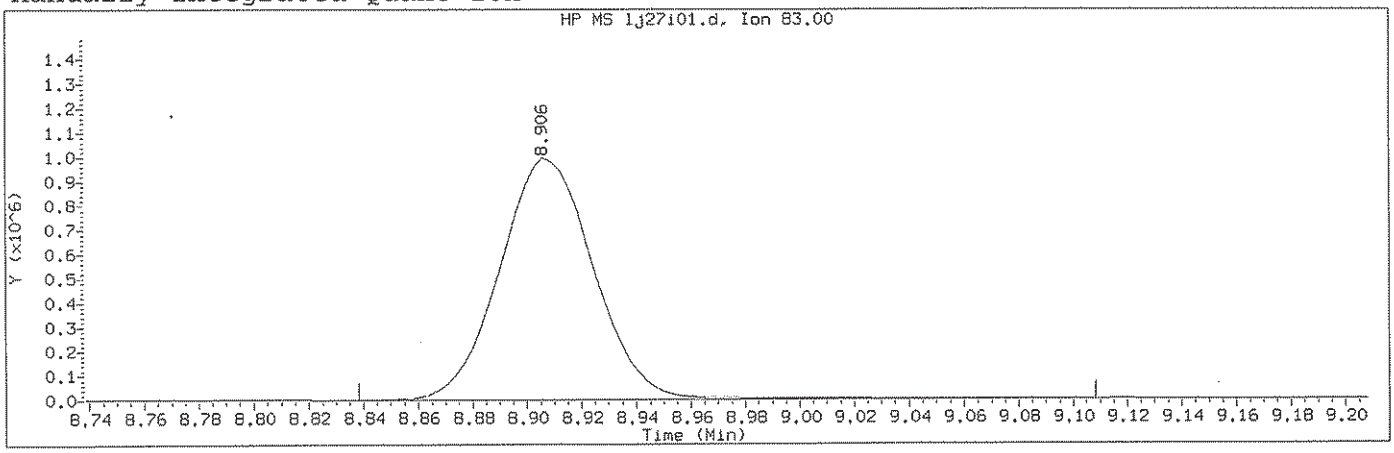
Compound Number	: 75
Compound Name	: 1,4-Dioxane
Scan Number	: 2199
Retention Time (minutes)	: 8.652
Quant Ion	: 88.00
Area	: 355656
On-column Amount (ng)	: 3850.1628
Integration start scan	: 2174 Integration stop scan: 2271
Y at integration start	: 0 Y at integration end: 0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD300 Lab Sample ID: VSTD300

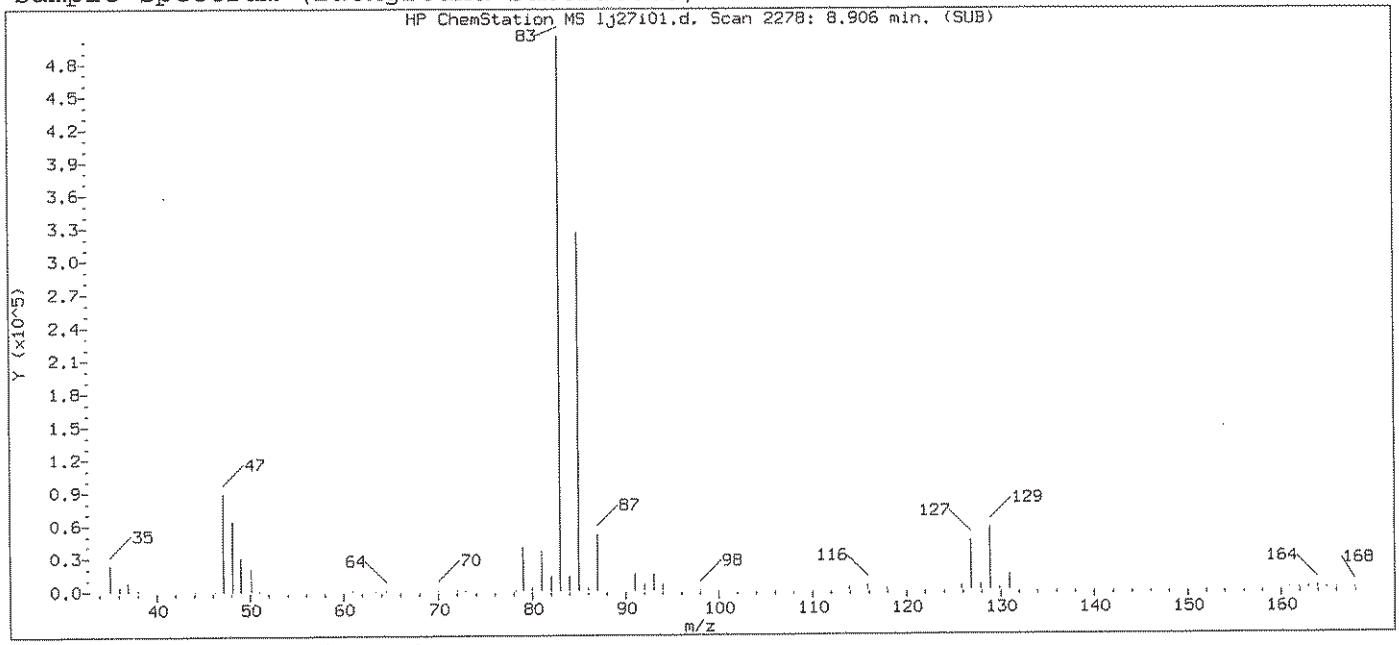
Compound Number	: 78		
Compound Name	: Bromodichloromethane		
Scan Number	: 2278		
Retention Time (minutes)	: 8.906		
Quant Ion	: 83.00		
Area (flag)	: 2387381M		
On-Column Amount (ng)	: 338.1149		
Integration start scan	: 2256	Integration stop scan:	2340
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

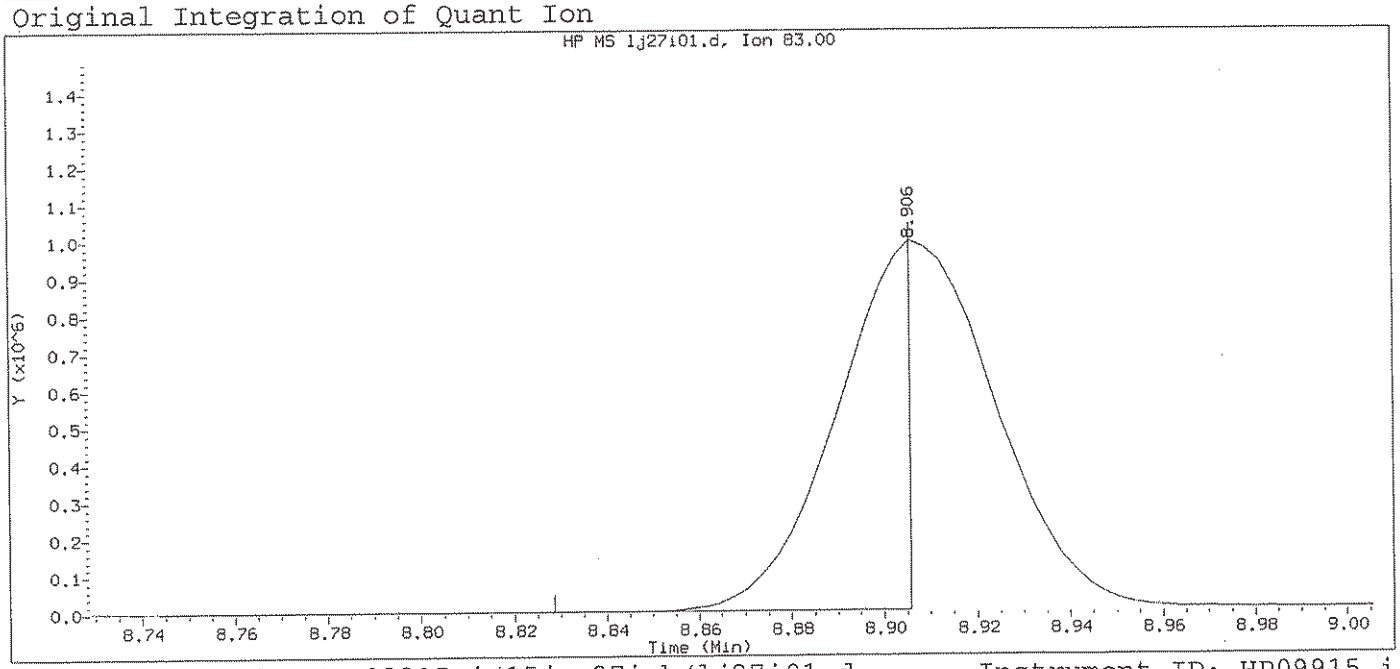
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

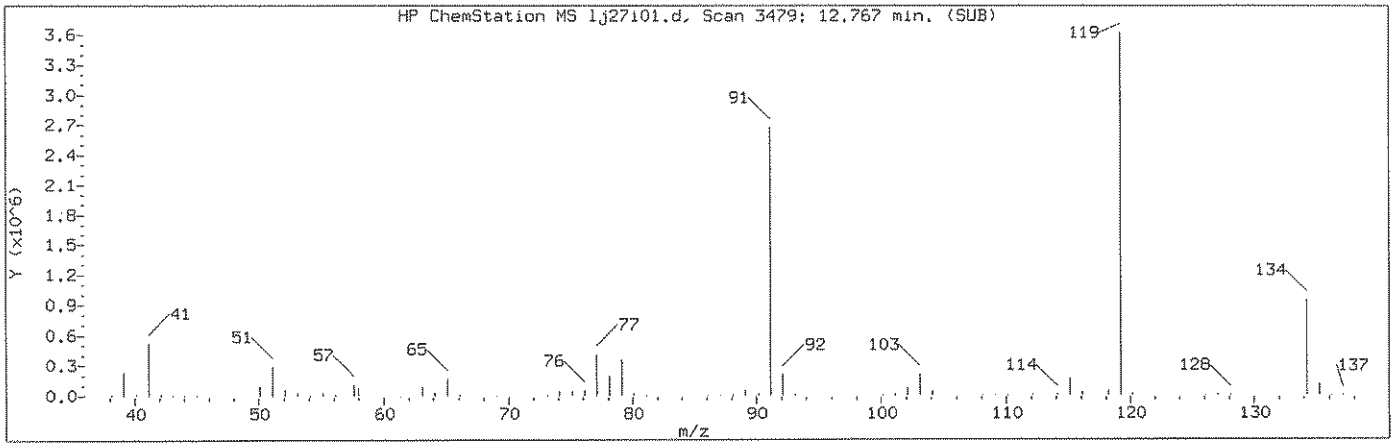
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD300 Lab Sample ID: VSTD300

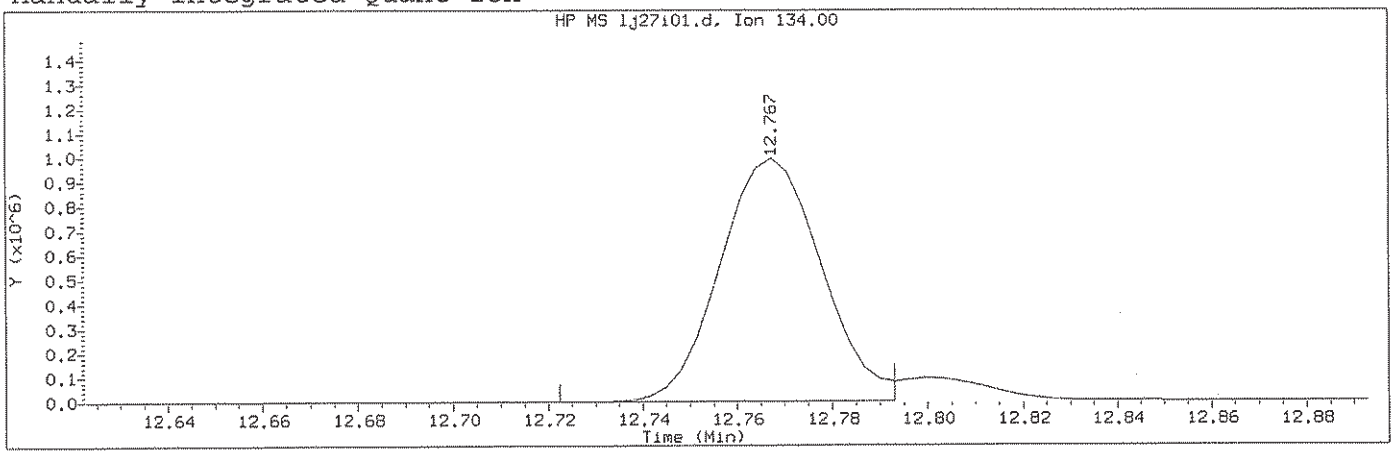
Compound Number	: 78		
Compound Name	: Bromodichloromethane		
Scan Number	: 2278		
Retention Time (minutes)	: 8.906		
Quant Ion	: 83.00		
Area	: 1077757		
On-column Amount (ng)	: 201.3170		
Integration start scan	: 2253	Integration stop scan:	2277
Y at integration start	: 897	Y at integration end:	897

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD300 Lab Sample ID: VSTD300

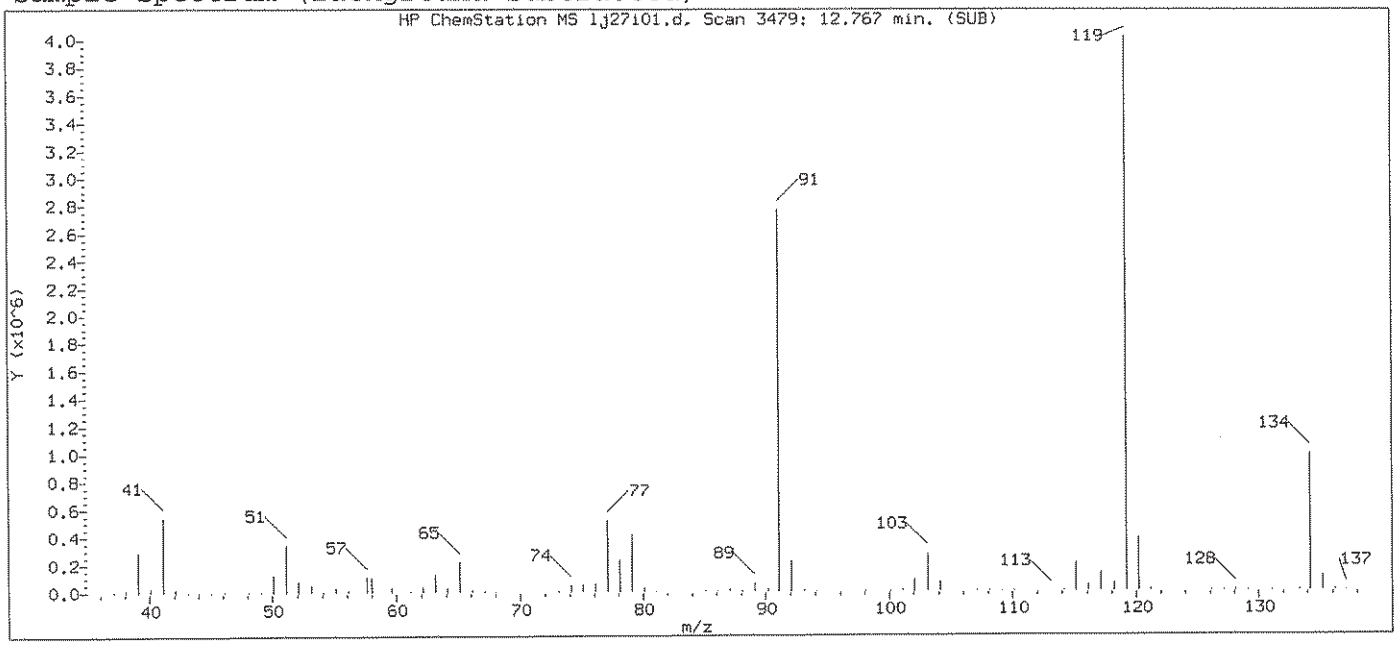
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3479		
Retention Time (minutes)	: 12.767		
Quant Ion	: 134.00		
Area (flag)	: 1480604M		
On-Column Amount (ng)	: 287.3533		
Integration start scan	: 3464	Integration stop scan:	3486
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

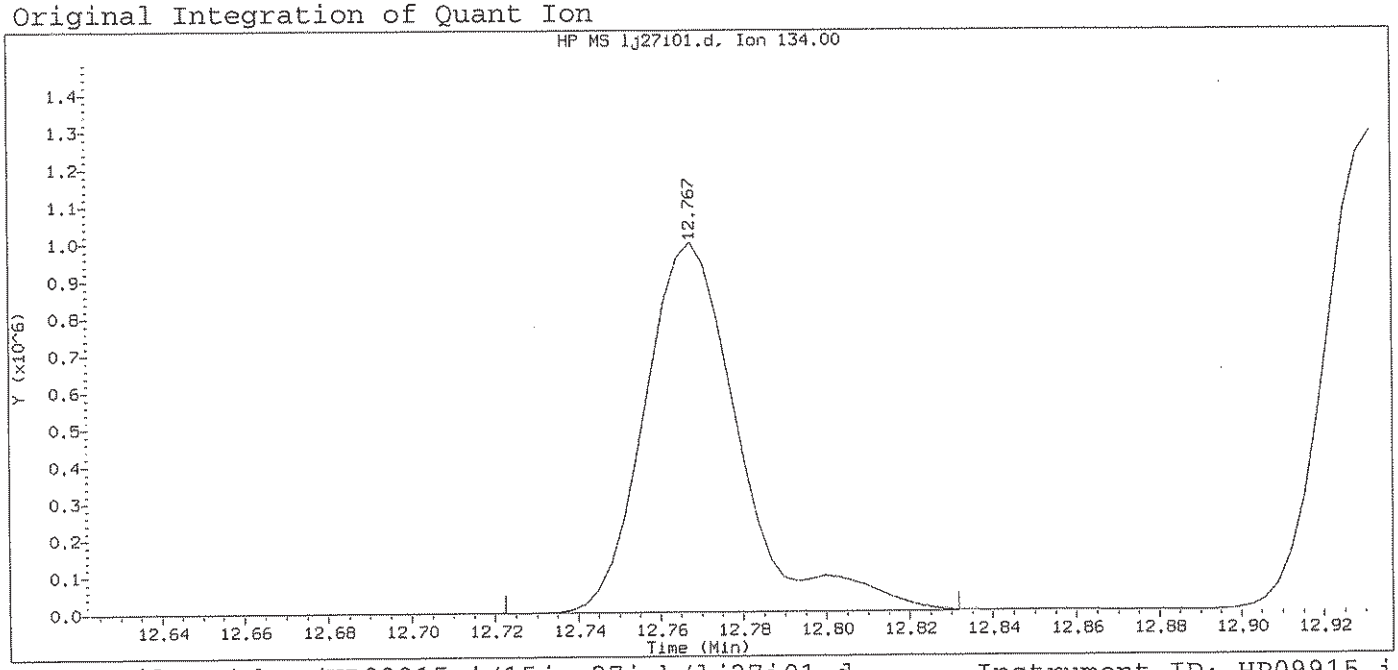
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

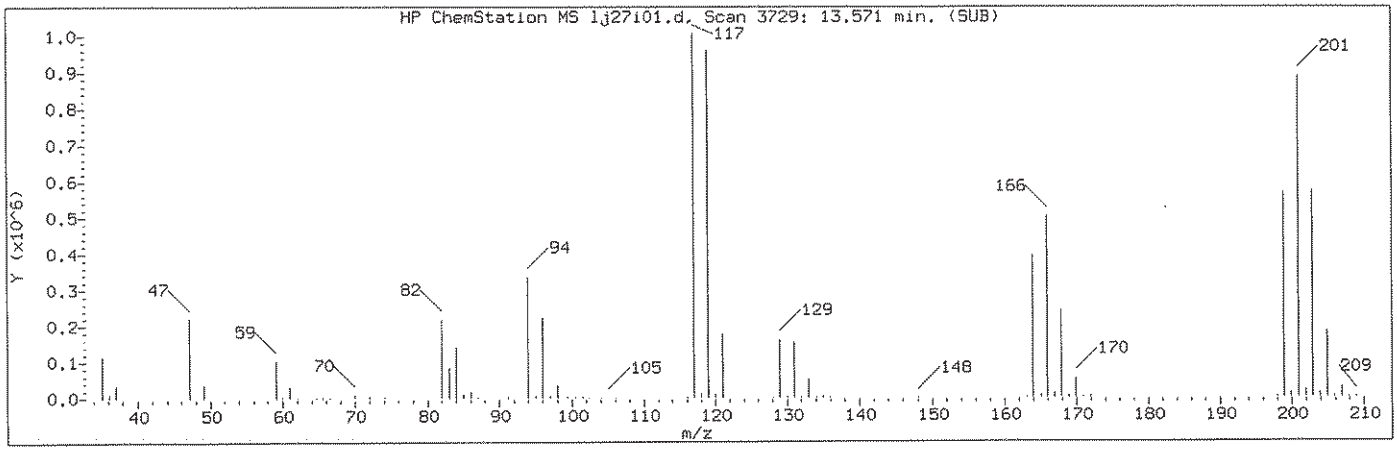
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD300 Lab Sample ID: VSTD300

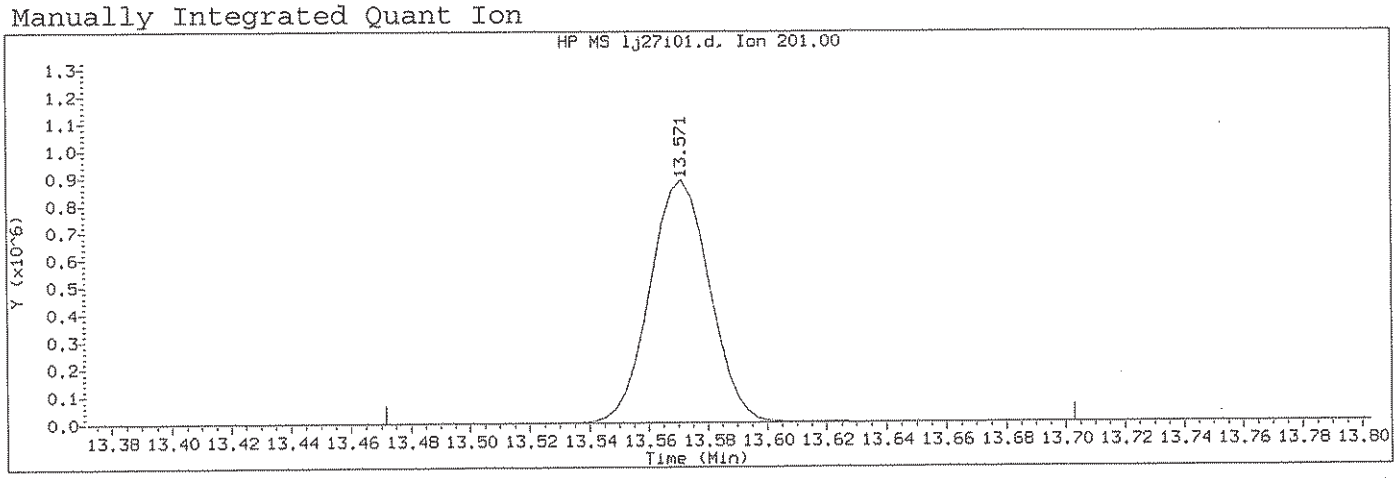
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3479		
Retention Time (minutes)	: 12.767		
Quant Ion	: 134.00		
Area	: 1594547		
On-column Amount (ng)	: 303.2414		
Integration start scan	: 3464	Integration stop scan:	3498
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature used: STD_sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:13 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

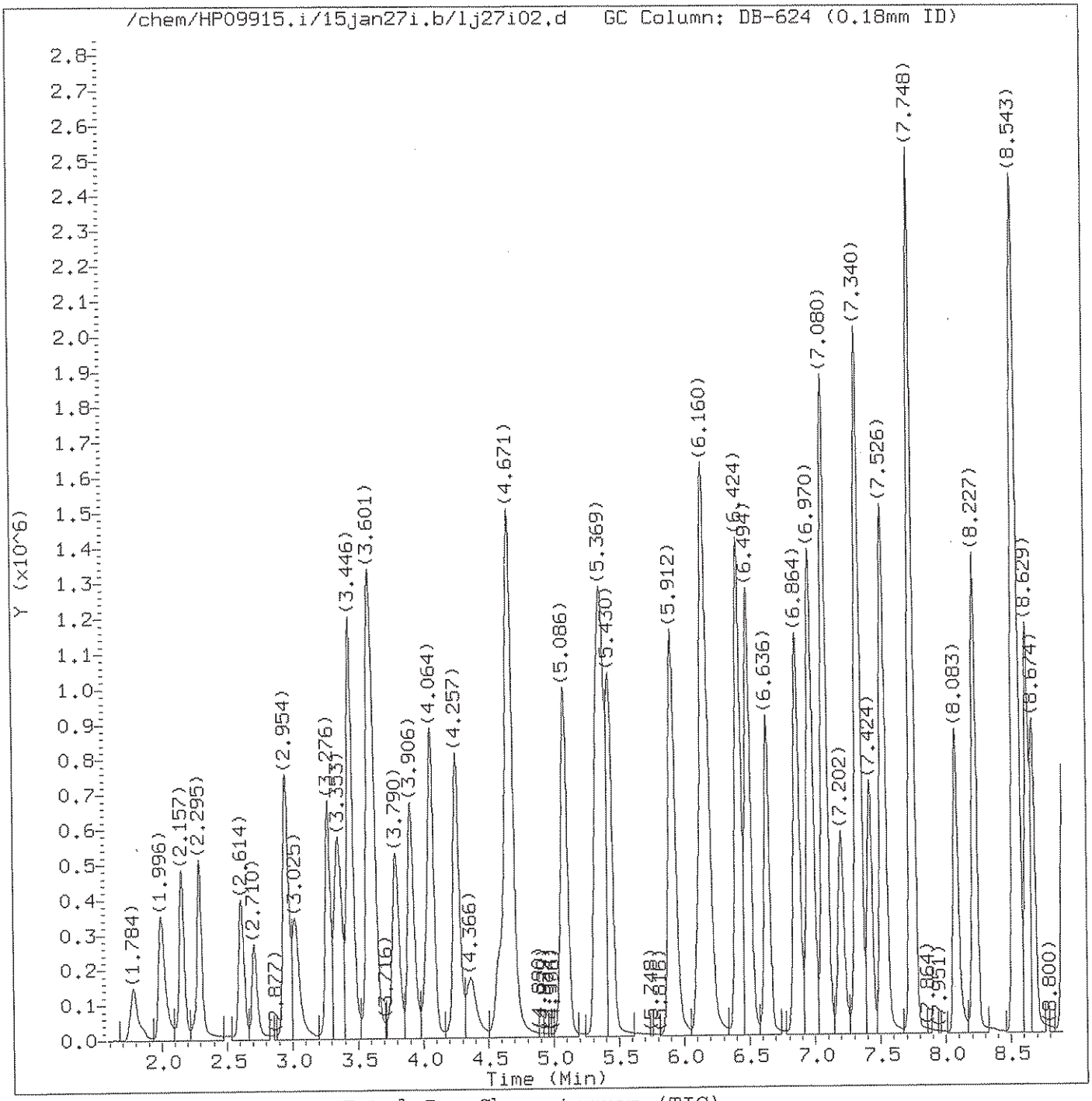
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 145
Compound Name : Hexachloroethane
Scan Number : 3729
Retention Time (minutes): 13.571
Quant Ion : 201.00
Area (flag) : 1253040M
On-Column Amount (ng) : 352.9535
Integration start scan : 3697 Integration stop scan: 3769
Y at integration start : 0 Y at integration end: 150

Reason for manual integration: compound not in processing sublist

Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/11/15



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d
Injection date and time: 27-JAN-2015 13:36

Instrument ID: HP09915.i
Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29

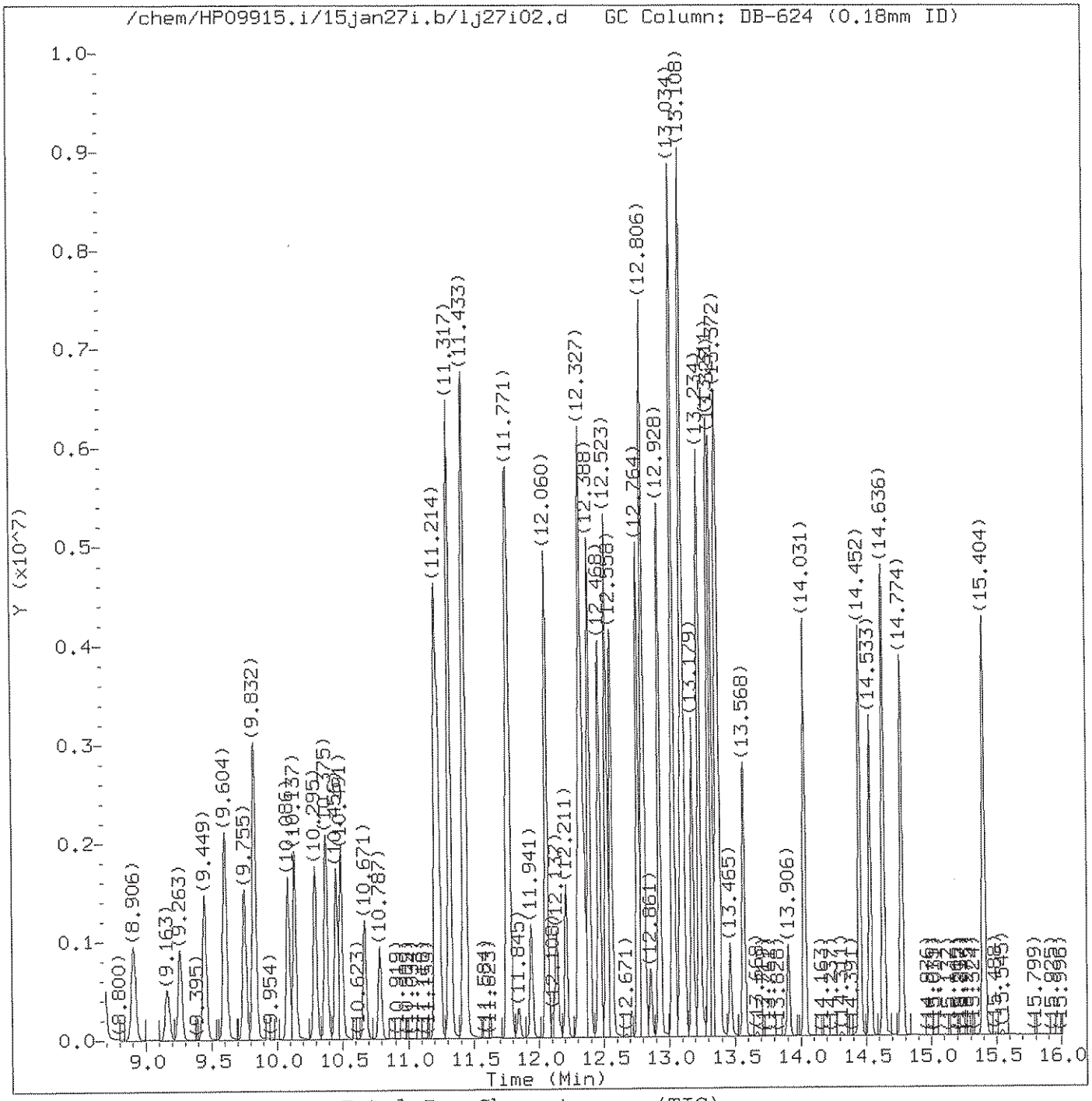
Sublist used: 8260W-BN

Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100

Lab Sample ID: VSTD100

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d
Injection date and time: 27-JAN-2015 13:36

Instrument ID: HP09915.i
Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sublist used: 8260W-BN

Sample Name: VSTD100

Lab Sample ID: VSTD100

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.996	85	751383	108.566
4) Chloromethane	(2)	2.157	50	745698	101.607
6) Vinyl Chloride	(2)	2.295	62	688864	101.259
8) Bromomethane	(2)	2.614	94	411790	101.450
9) Chloroethane	(2)	2.710	64	368074	100.118
43) 1,2-Dichloroethene (Total)	(2)		96	1219669	206.928
10) Dichlorofluoromethane	(2)	2.954	67	952516	101.804
12) Trichlorofluoromethane	(2)	3.022	101	794132	107.784
14) Ethyl ether	(2)	3.276	59	577011	106.041
15) Freon 123a	(2)	3.350	67	686427	103.670
16) Acrolein	(1)	3.446	56	1826998	1084.393
17) 1,1-Dichloroethene	(2)	3.588	96	509364	103.207
17) 1,1-Dichloroethene	(2)	3.588	63	257821	102.849
18) Acetone	(1)	3.610	58	150898M	222.276
19) Freon 113	(2)	3.617	101	553628	110.788
21) 2-Propanol	(1)	3.771	45	314927	545.087
22) Methyl Iodide	(2)	3.794	142	927322	103.972
23) Carbon Disulfide	(2)	3.906	76	1771127	107.624
27) Methyl Acetate	(2)	4.028	43	573159	100.875
25) Allyl Chloride	(2)	4.067	41	894280	105.478
29)*t-Butyl alcohol-d10	(1)	4.240	65	223313	250.000
28) Methylene Chloride	(2)	4.260	84	607536	101.264
30) t-Butyl alcohol	(1)	4.366	59	511514	538.490
31) Acrylonitrile	(2)	4.581	53	324158	111.814
33) Methyl Tertiary Butyl Ether	(2)	4.655	73	1867916	102.795
32) trans-1,2-Dichloroethene	(2)	4.678	96	575103	102.524
34) n-Hexane	(2)	5.089	57	934353	110.350
36) 1,1-Dichloroethane	(2)	5.334	63	1054532	101.972
38) di-Isopropyl ether	(2)	5.379	45	2027200	103.919
39) 2-Chloro-1,3-butadiene	(2)	5.437	53	937083	106.687
90) 1,3-Dichloropropene (total)	(3)		100	2008024	225.819
40) Ethyl t-butyl ether	(2)	5.912	59	1957484	104.092
44) 2-Butanone	(2)	6.118	43	787169	217.461
42) cis-1,2-Dichloroethene	(2)	6.154	96	644566M	104.404
45) 2,2-Dichloropropane	(2)	6.173	77	840637	107.417
47) Propionitrile	(1)	6.202	54	624876	519.305
48) Methacrylonitrile	(2)	6.424	67	839618	257.870
49) Bromochloromethane	(2)	6.494	128	319636	105.809

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Tetrahydrofuran	(1)	6.501	71	215724	222.425
51) Chloroform	(2)	6.636	83	1018585	103.819
52)$Dibromofluoromethane	(2)	6.858	113	293303	50.394
52)$Dibromofluoromethane	(2)	6.858	111	300405	50.564
53) 1,1,1-Trichloroethane	(2)	6.864	97	932741	100.206
54) Cyclohexane	(2)	6.970	56	1152276	109.942
54) Cyclohexane	(2)	6.970	84	929046	109.595
54) Cyclohexane	(2)	6.970	69	350867	110.670
55) 1,1-Dichloropropene	(2)	7.076	75	814243	105.161
56) Carbon Tetrachloride	(2)	7.080	117	757884	109.232
58) Isobutyl Alcohol	(1)	7.202	41	420259	1320.287
57)$1,2-Dichloroethane-d4	(2)	7.317	102	72502	50.320
57)$1,2-Dichloroethane-d4	(2)	7.317	65	337686	49.896
57)$1,2-Dichloroethane-d4	(2)	7.321	104	46331	56.587
60) Benzene	(2)	7.343	78	2470924	102.793
61) 1,2-Dichloroethane	(2)	7.424	62	787103	103.857
61) 1,2-Dichloroethane	(2)	7.420	98	78196	107.357
65) t-Amyl methyl ether	(2)	7.526	73	1898648	104.647
66)*Fluorobenzene	(2)	7.745	96	1218088	50.000
67) n-Heptane	(2)	7.752	43	1000128	111.708
108) Xylene (Total)	(3)		106	3412754	308.931
69) n-Butanol	(1)	8.083	56	782553	2790.717
71) Trichloroethene	(2)	8.227	95	633612	103.454
72) Methylcyclohexane	(2)	8.539	83	1174934	110.542
72) Methylcyclohexane	(2)	8.539	98	529285	110.737
73) 1,2-Dichloropropane	(2)	8.565	63	671665	105.179
76) Methyl Methacrylate	(2)	8.629	69	575075	107.831
75) 1,4-Dioxane	(1)	8.645	88	130297M	1359.328
74) Dibromomethane	(2)	8.674	93	418497	105.352
78) Bromodichloromethane	(2)	8.906	83	811677	110.335
79) 2-Nitropropane	(2)	9.163	41	404555	198.686
80) 2-Chloroethyl Vinyl Ether	(2)	9.263	63	500739	108.090
81) cis-1,3-Dichloropropene	(2)	9.449	75	1041109	111.466
82) 4-Methyl-2-pentanone	(2)	9.607	43	1721087	217.611
83)$Toluene-d8	(3)	9.755	98	1206540	50.003
83)$Toluene-d8	(3)	9.755	100	791559	49.898
141) Diethylbenzene (total)	(4)		100	4946332	298.000
88) Toluene	(3)	9.832	92	1531237	101.719

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
89) trans-1,3-Dichloropropene	(3)	10.086	75	966915	114.352
91) Ethyl Methacrylate	(3)	10.137	69	1056306	109.426
92) 1,1,2-Trichloroethane	(3)	10.295	97	600484	105.424
93) Tetrachloroethene	(3)	10.375	166	661549	103.240
94) 1,3-Dichloropropane	(3)	10.456	76	1033642	104.559
96) 2-Hexanone	(3)	10.491	43	1230515	212.653
97) Dibromochloromethane	(3)	10.674	129	664294	115.734
99) 1,2-Dibromoethane	(3)	10.787	107	648357	106.119
100)*Chlorobenzene-d5	(3)	11.208	117	926764	50.000
101) 1-Chlorohexane	(3)	11.214	91	854605	103.889
102) Chlorobenzene	(3)	11.237	112	1702209	103.028
104) Ethylbenzene	(3)	11.317	91	2975706	103.175
103) 1,1,1,2-Tetrachloroethane	(3)	11.317	131	598939	110.949
106) m+p-Xylene	(3)	11.433	106	2290405	205.800
107) o-Xylene	(3)	11.761	106	1122349	103.131
109) Styrene	(3)	11.777	104	1946167	106.784
110) Bromoform	(3)	11.941	173	507628	118.513
111) Isopropylbenzene	(3)	12.060	105	3004862	103.189
112) Cyclohexanone	(1)	12.137	55	473037	1331.540
114)$4-Bromofluorobenzene	(3)	12.211	95	483107	50.290
114)$4-Bromofluorobenzene	(3)	12.211	174	395582	50.419
116) 1,1,2,2-Tetrachloroethane	(4)	12.304	83	940697	103.304
115) Bromobenzene	(4)	12.324	156	756894	102.413
118) trans-1,4-Dichloro-2-butene	(4)	12.330	53	616577	285.517
117) 1,2,3-Trichloropropane	(4)	12.353	110	269104	102.082
119) n-Propylbenzene	(4)	12.388	91	3597661	101.146
120) 2-Chlorotoluene	(4)	12.468	126	719570	102.816
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	2618058	102.872
121) 4-Chlorotoluene	(4)	12.562	126	746892	102.456
124) tert-Butylbenzene	(4)	12.764	134	536243M	102.349
125) Pentachloroethane	(4)	12.800	167	476231	112.622
126) 1,2,4-Trimethylbenzene	(4)	12.809	105	2644335	102.329
127) sec-Butylbenzene	(4)	12.928	105	3358559	102.673
129) 1,3-Dichlorobenzene	(4)	13.031	146	1417312	99.522
130) p-Isopropyltoluene	(4)	13.038	119	2872190	101.966
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	503423	50.000
133) 1,4-Dichlorobenzene	(4)	13.108	146	1449393	98.525
134) 1,2,3-Trimethylbenzene	(4)	13.111	105	2720918	101.960

M = Compound was manually integrated.
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$ = Compound is a surrogate standard.

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on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
135) Benzyl Chloride	(4)	13.179	91	2034788	119.311
136) 1,3-Diethylbenzene	(4)	13.234	119	1765630	99.911
137) 1,4-Diethylbenzene	(4)	13.308	119	1774217	98.959
139) n-Butylbenzene	(4)	13.327	92	1479628	100.829
138) 1,2-Dichlorobenzene	(4)	13.362	146	1436606	99.886
140) 1,2-Diethylbenzene	(4)	13.378	119	1406485	99.129
145) Hexachloroethane	(4)	13.568	201	429242M	118.905
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	204206	111.099
144) 1,3,5-Trichlorobenzene	(4)	14.031	180	1190334	101.387
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	1147985	101.780
147) Hexachlorobutadiene	(4)	14.533	225	546197	102.171
148) Naphthalene	(4)	14.636	128	3305899	100.623
149) 1,2,3-Trichlorobenzene	(4)	14.774	180	1093262	101.965
150) 2-Methylnaphthalene	(4)	15.404	142	2056409	105.045

M = Compound was manually integrated.

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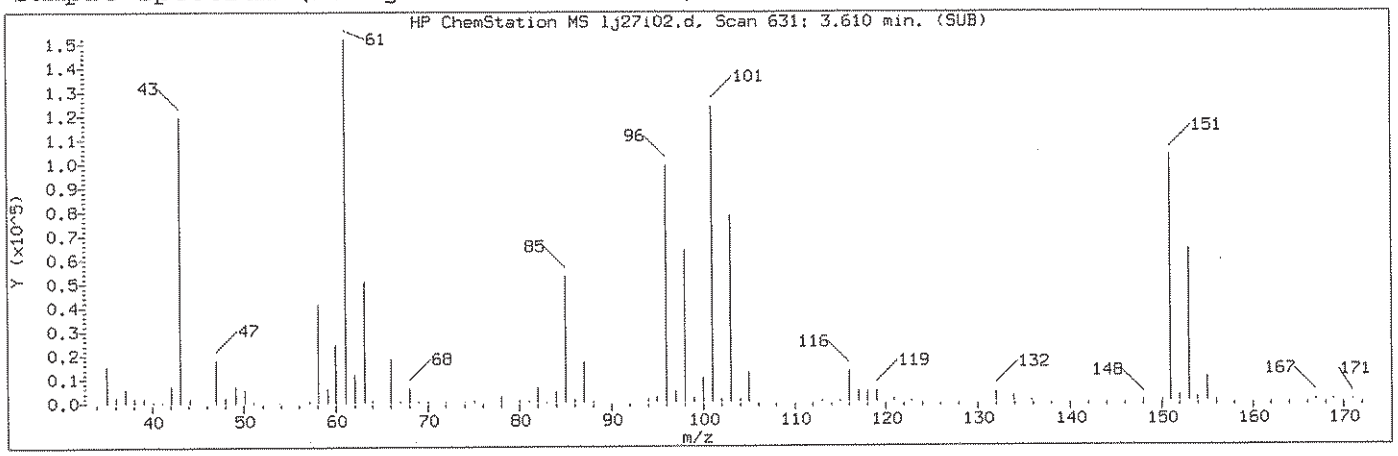
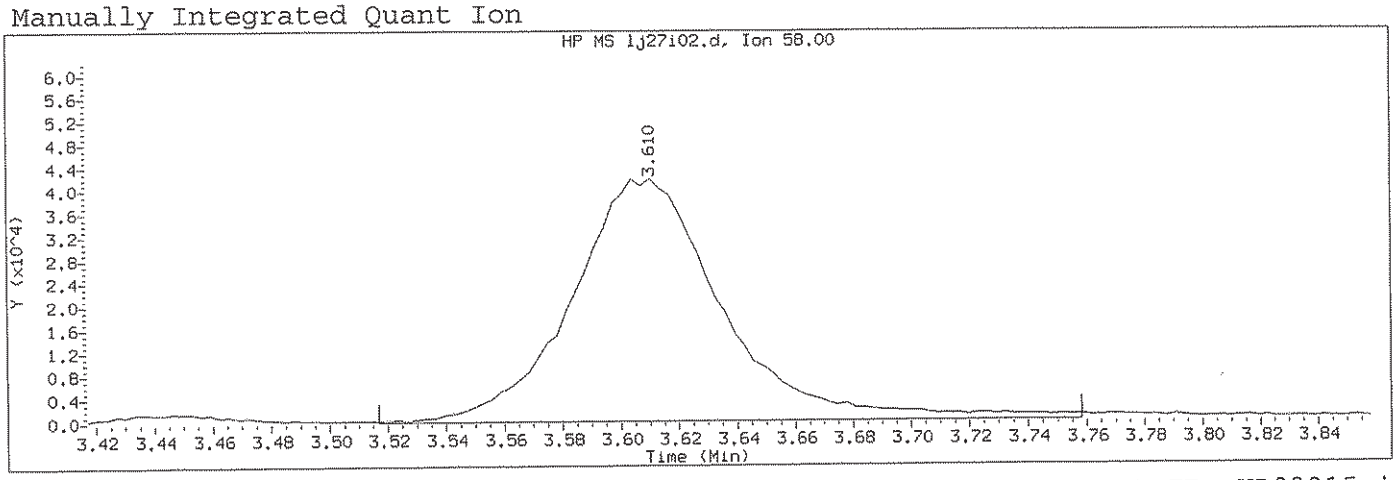
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100 Lab Sample ID: VSTD100

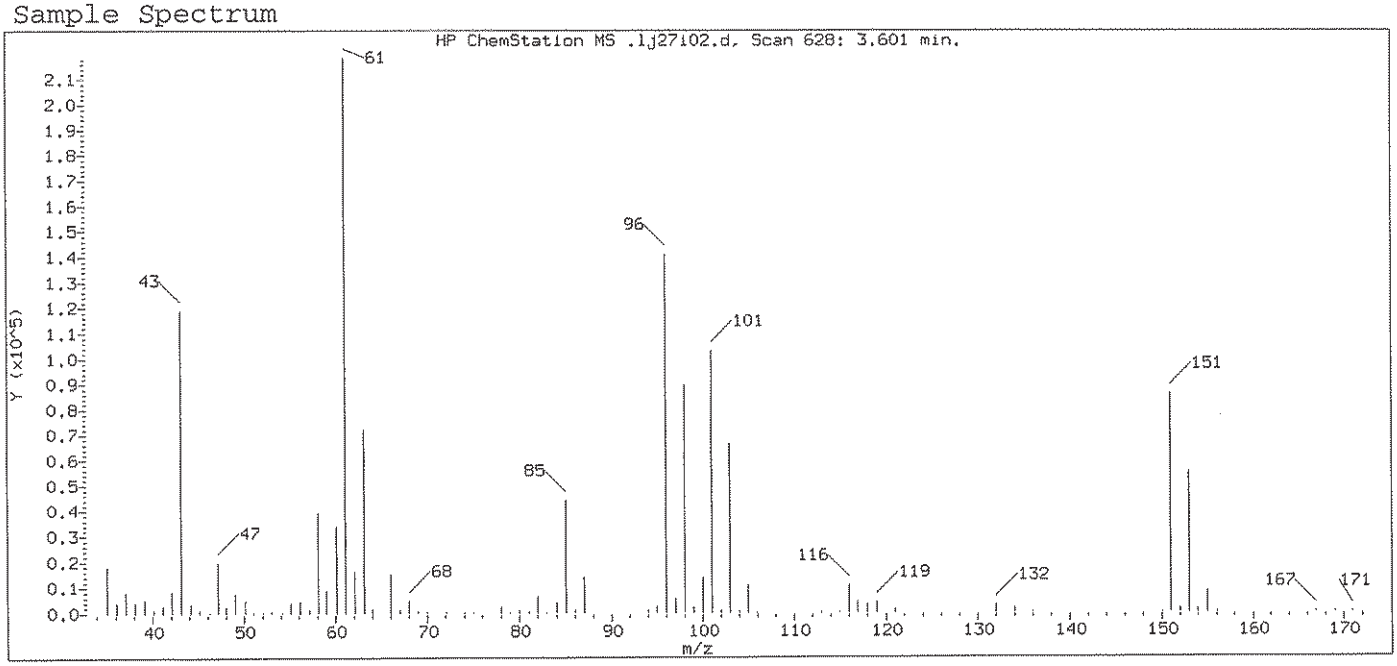
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 631		
Retention Time (minutes)	: 3.610		
Quant Ion	: 58.00		
Area (flag)	: 150898M		
On-Column Amount (ng)	: 222.2761		
Integration start scan	: 601	Integration stop scan:	676
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

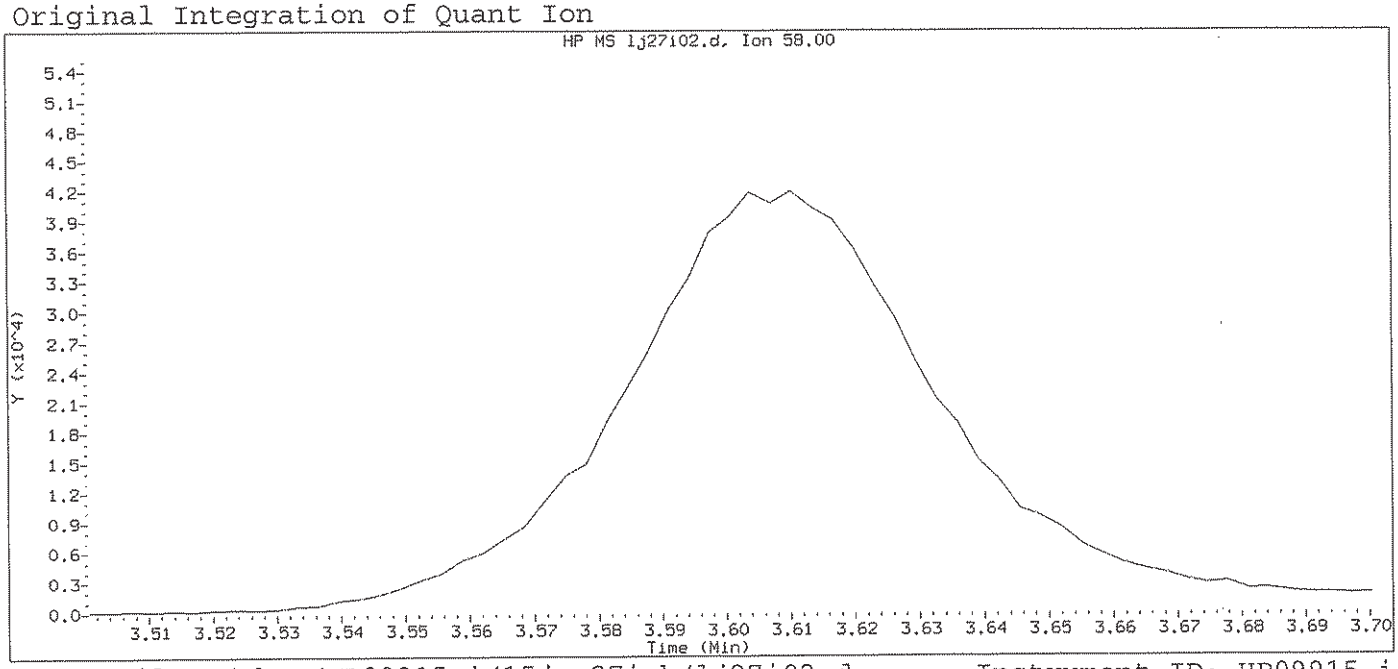
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

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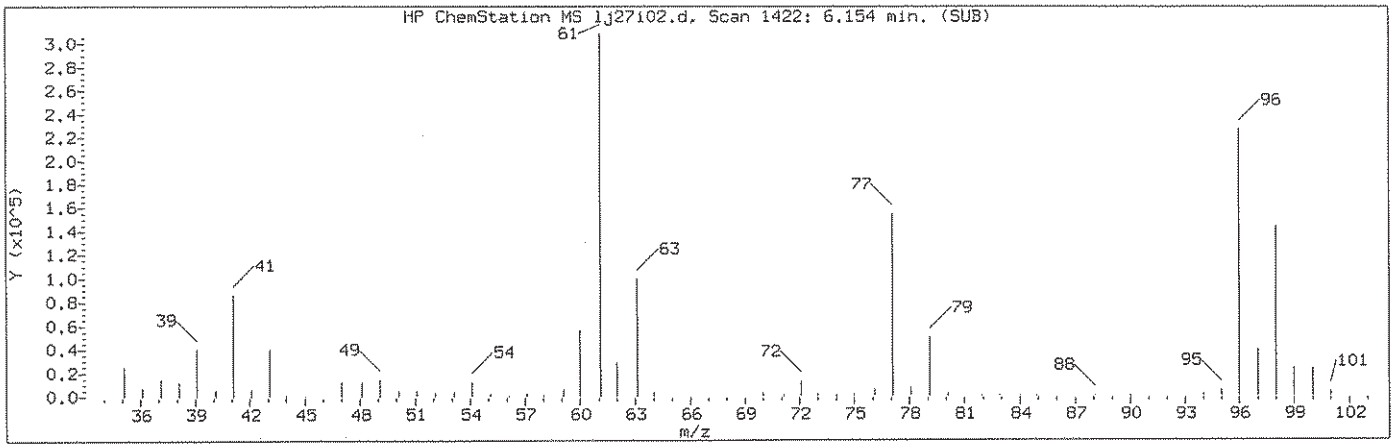
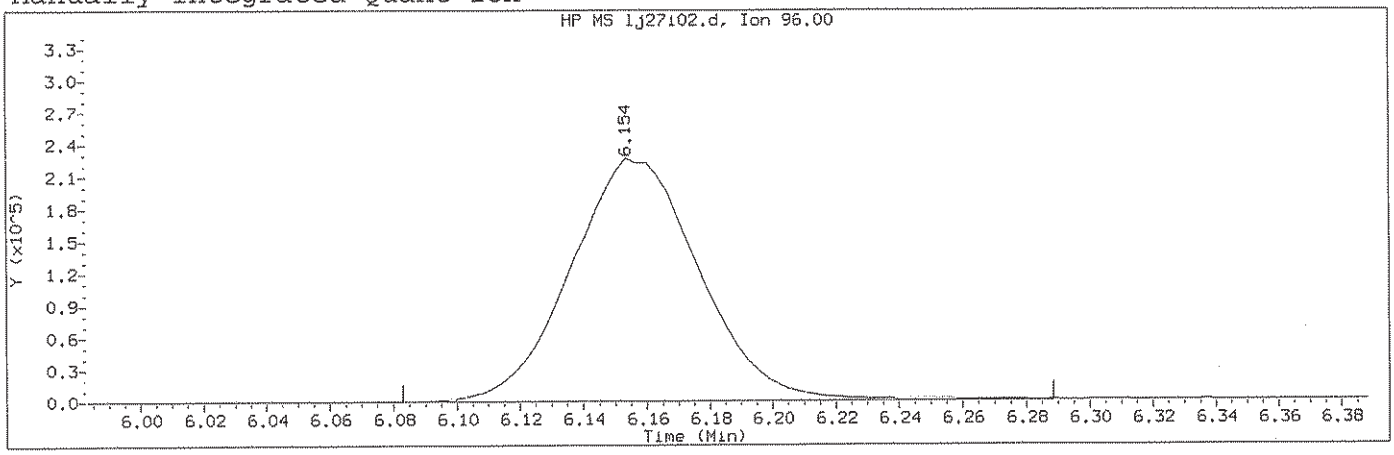
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100 Lab Sample ID: VSTD100

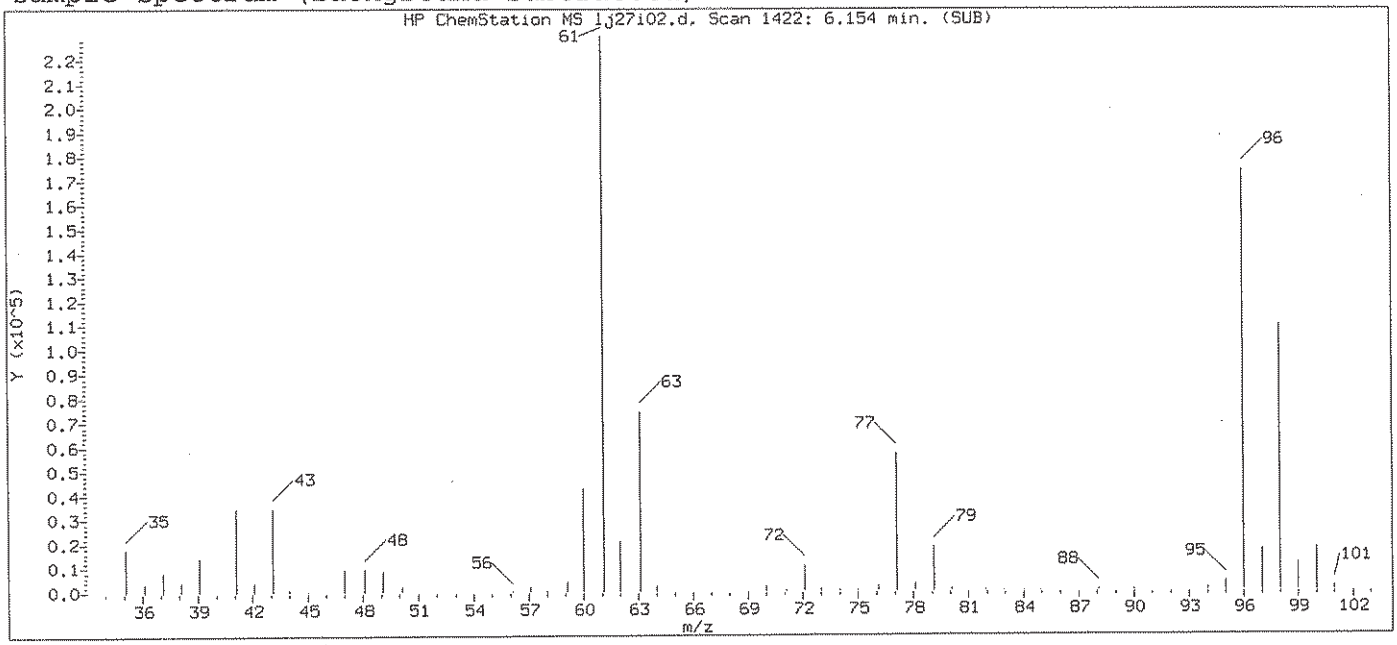
Compound Number : 42
Compound Name : cis-1,2-Dichloroethene
Scan Number : 1422
Retention Time (minutes): 6.154
Quant Ion : 96.00
Area (flag) : 644566M
On-Column Amount (ng) : 104.4037
Integration start scan : 1399 Integration stop scan: 1463
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

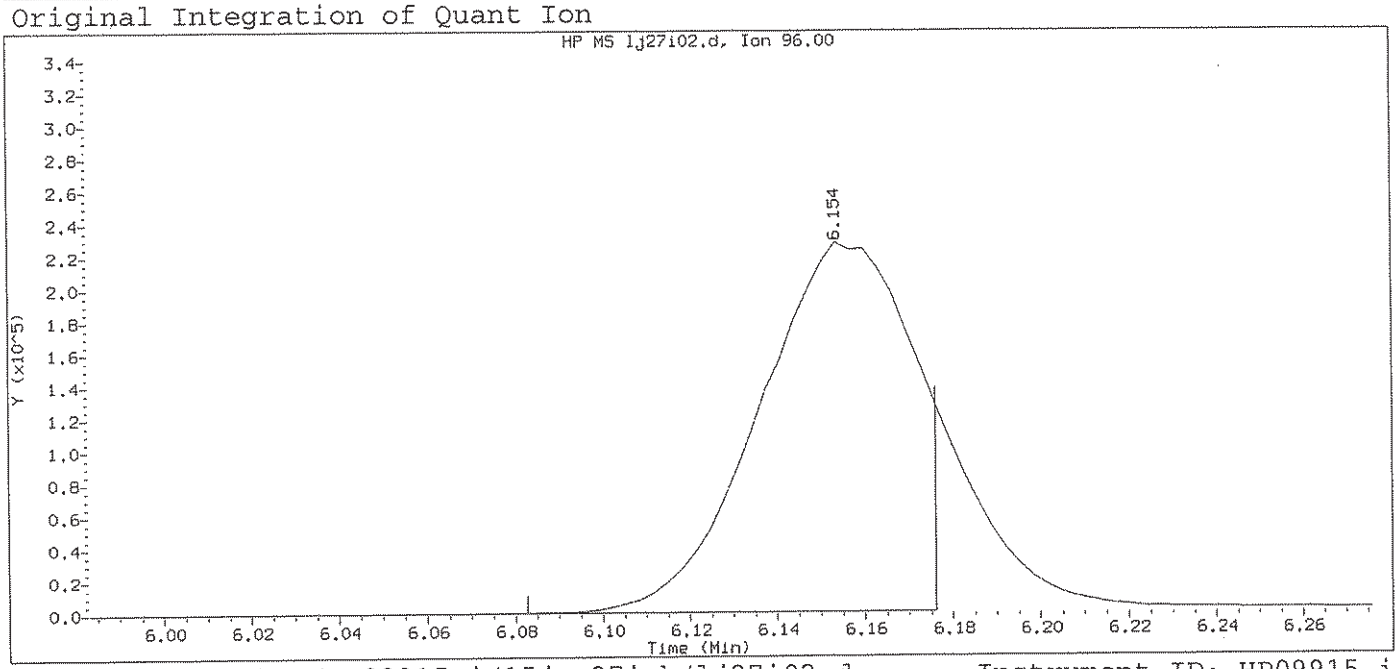
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 42		
Compound Name	: cis-1,2-Dichloroethene		
Scan Number	: 1422		
Retention Time (minutes)	: 6.154		
Quant Ion	: 96.00		
Area	: 538071		
On-column Amount (ng)	: 90.8661		
Integration start scan	: 1399	Integration stop scan:	1428
Y at integration start	: 0	Y at integration end:	0

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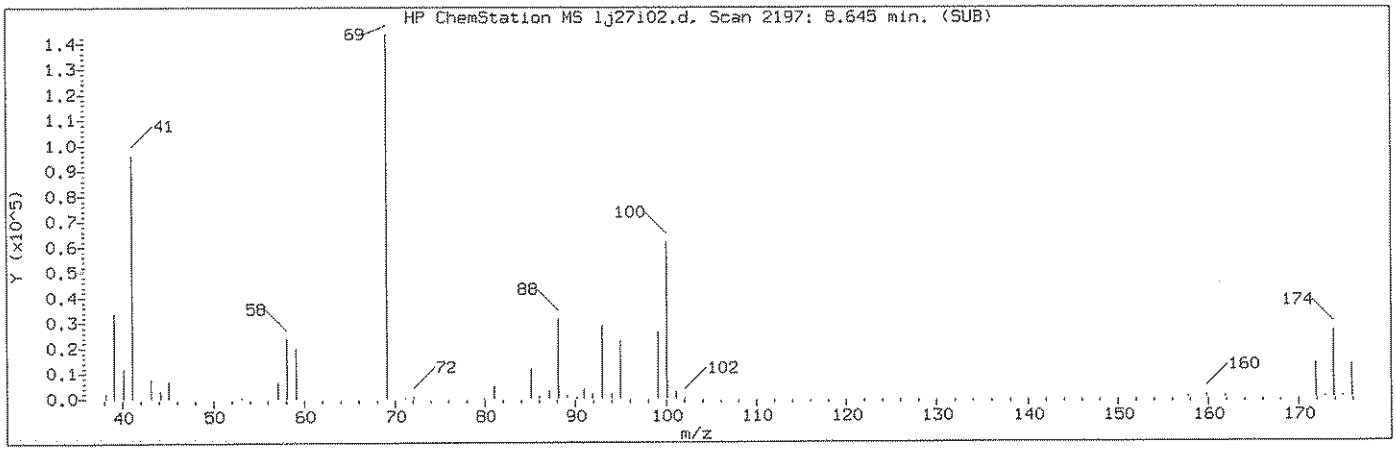
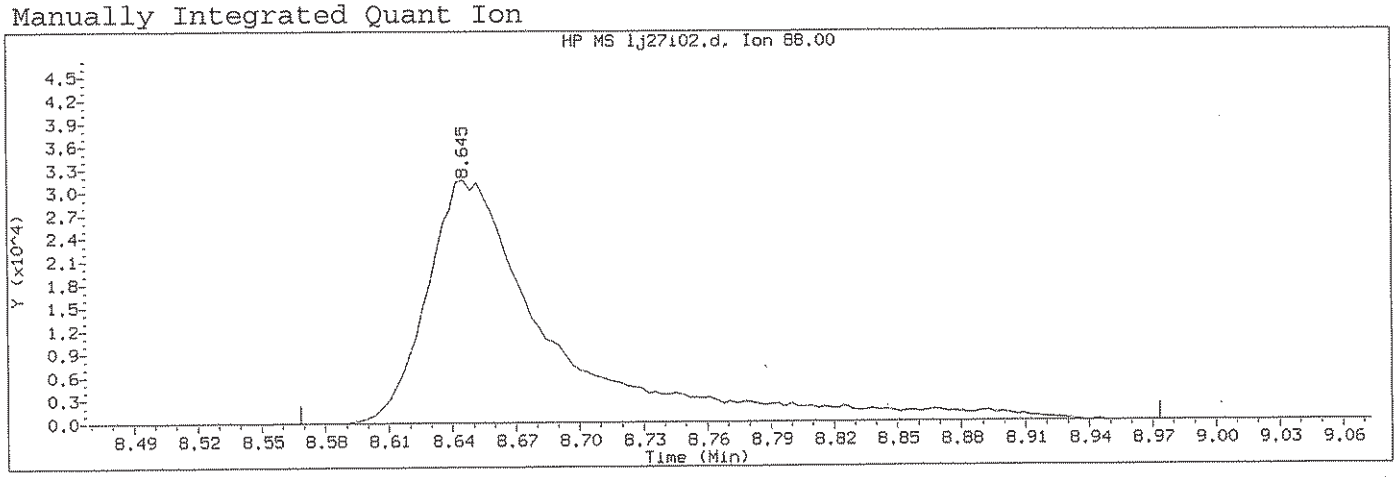
Target 3.5 esignature used. ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100 Lab Sample ID: VSTD100

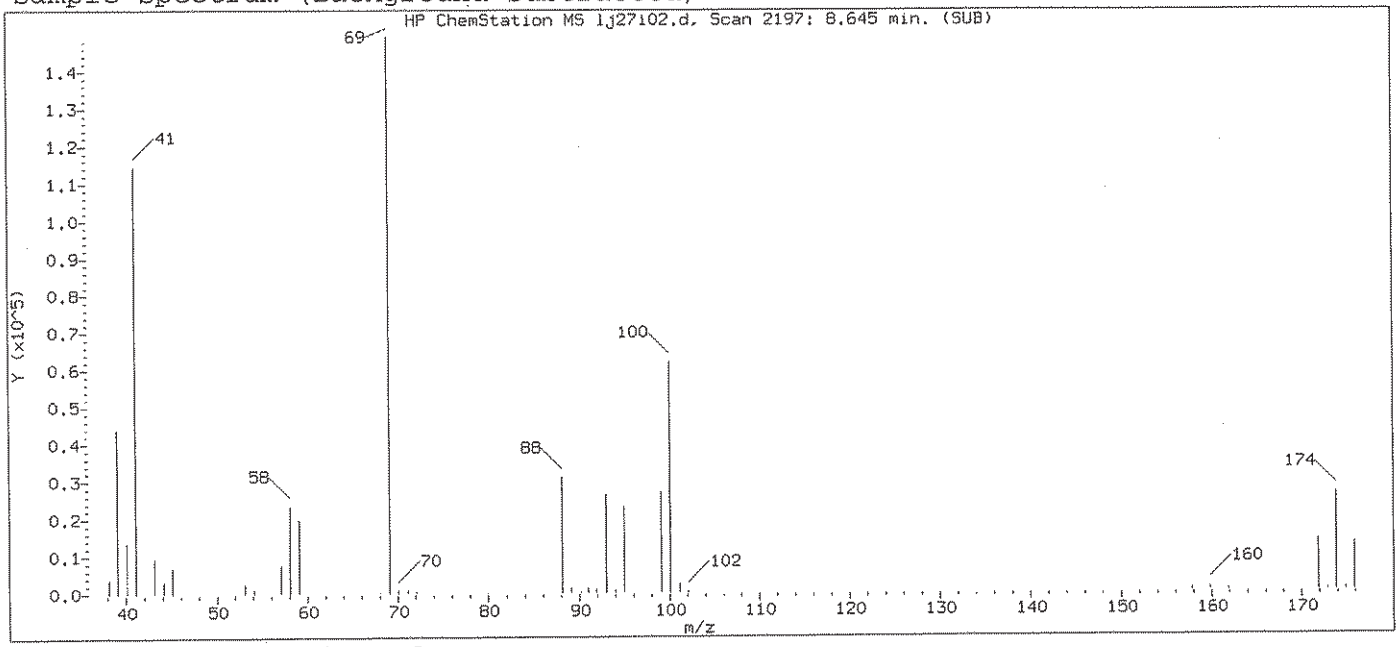
Compound Number : 75
Compound Name : 1,4-Dioxane
Scan Number : 2197
Retention Time (minutes): 8.645
Quant Ion : 88.00
Area (flag) : 130297M
On-Column Amount (ng) : 1359.3281
Integration start scan : 2172 Integration stop scan: 2298
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

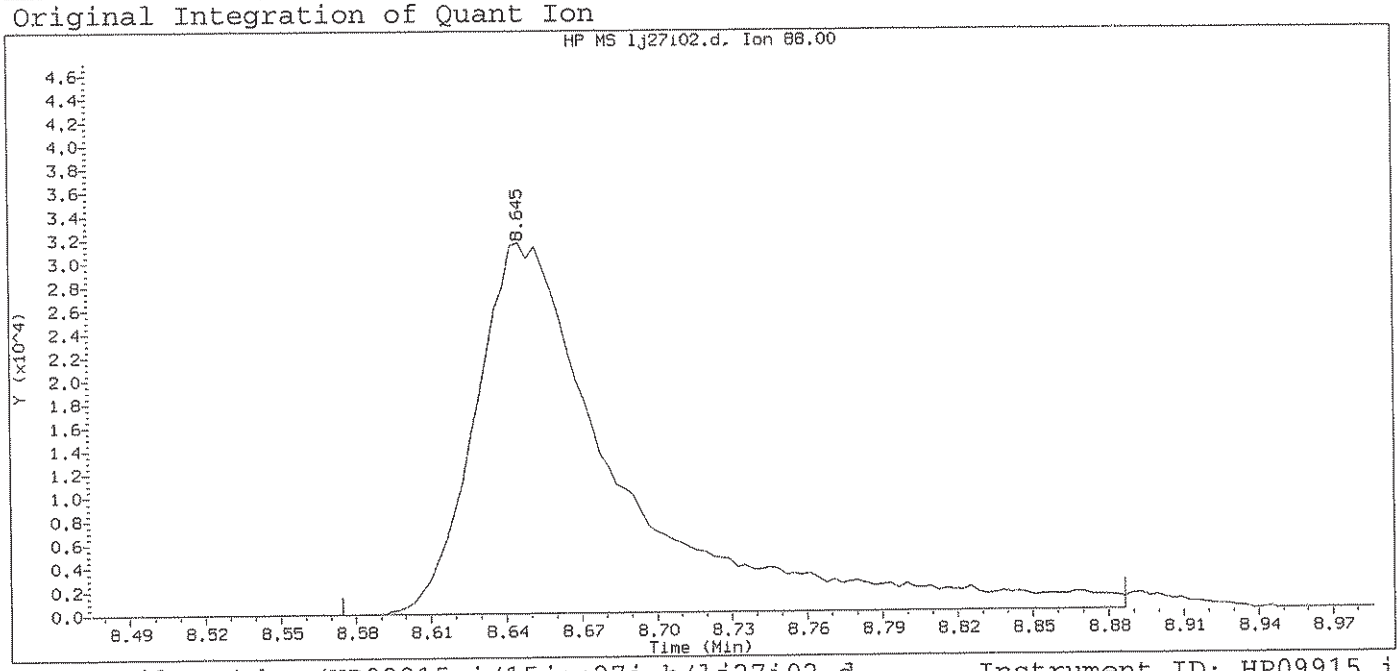
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2197		
Retention Time (minutes)	: 8.645		
Quant Ion	: 88.00		
Area	: 128004		
On-column Amount (ng)	: 1320.0864		
Integration start scan	: 2174	Integration stop scan:	2271
Y at integration start	: 0	Y at integration end:	0

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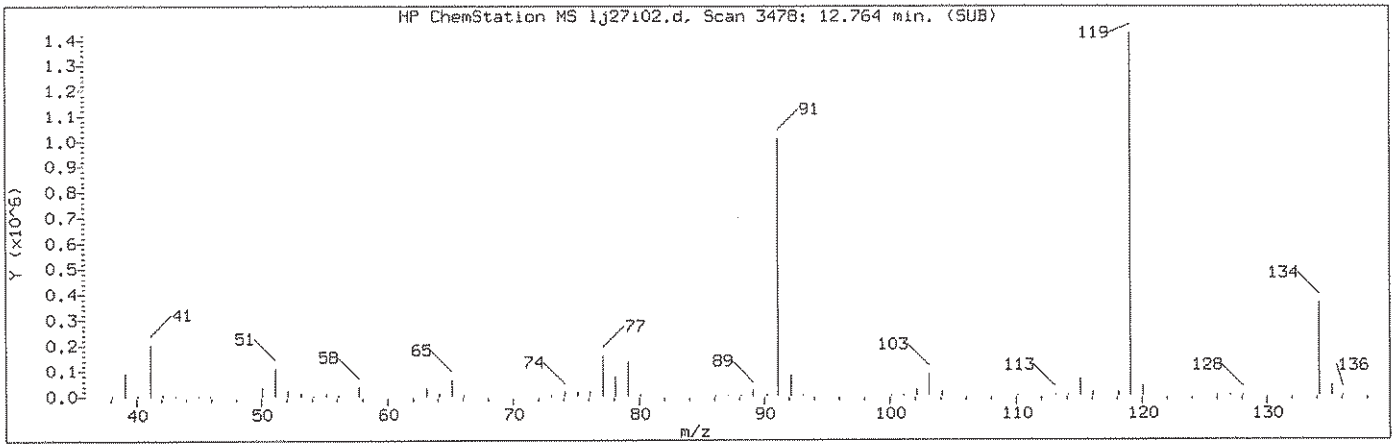
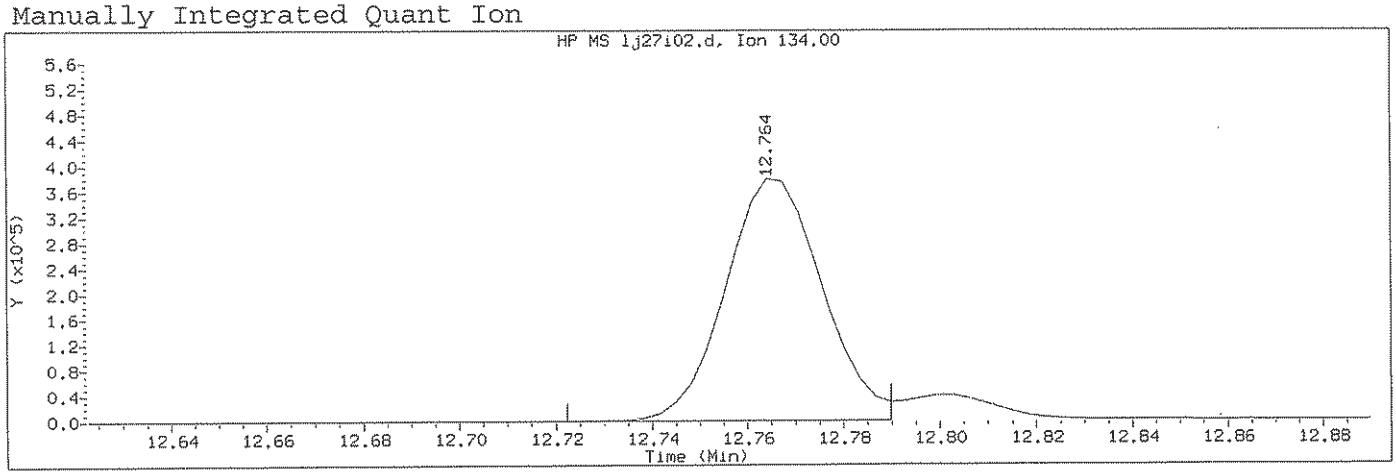
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD100 Lab Sample ID: VSTD100

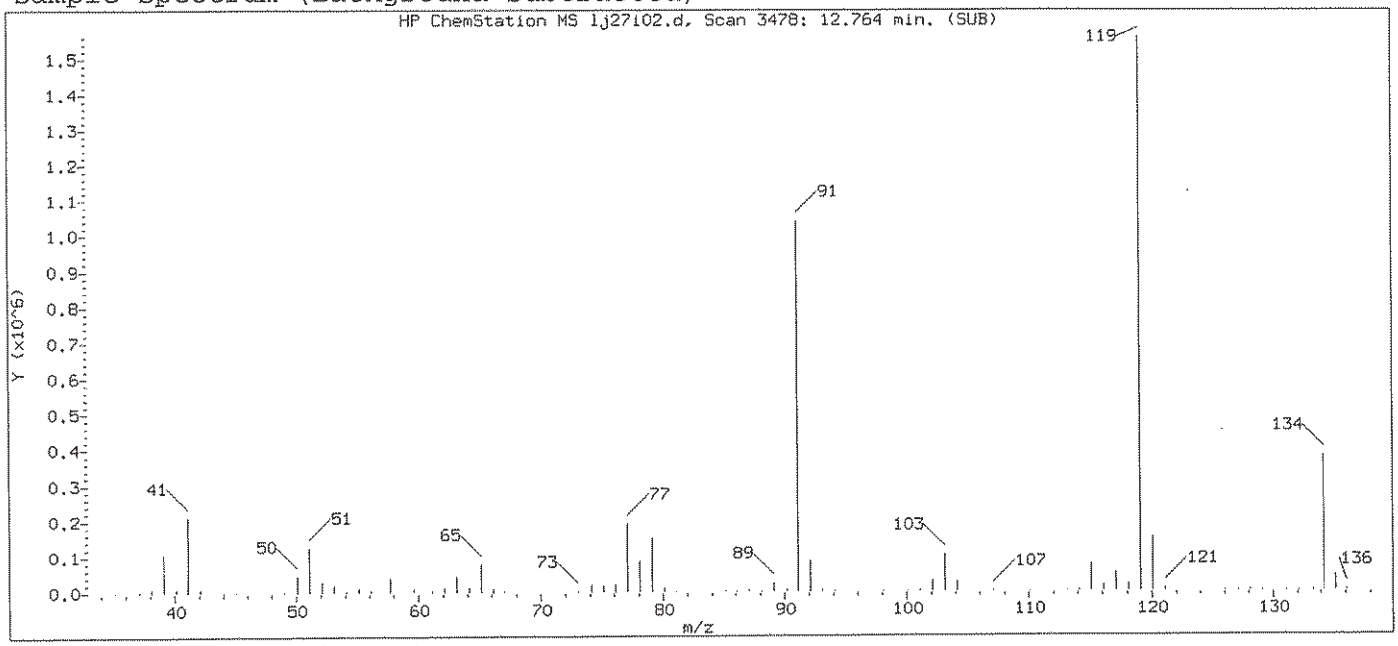
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3478		
Retention Time (minutes)	: 12.764		
Quant Ion	: 134.00		
Area (flag)	: 536243M		
On-Column Amount (ng)	: 102.3491		
Integration start scan	: 3464	Integration stop scan:	3485
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

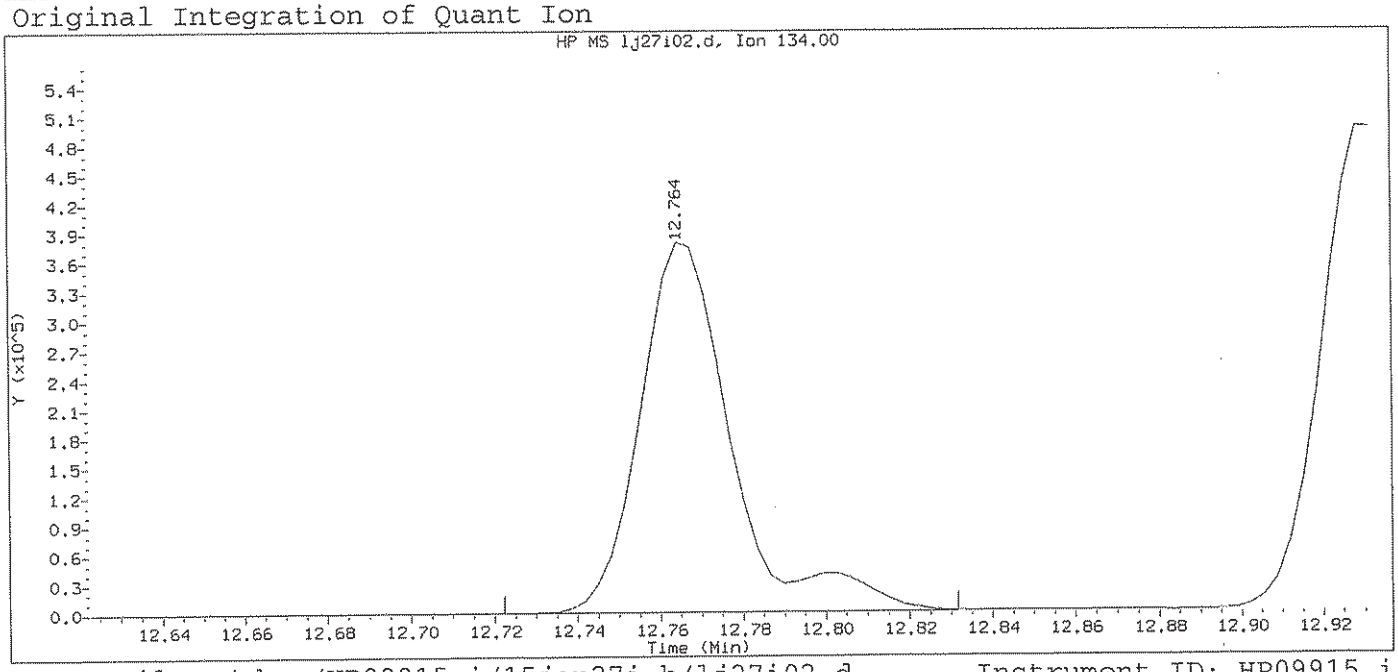
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

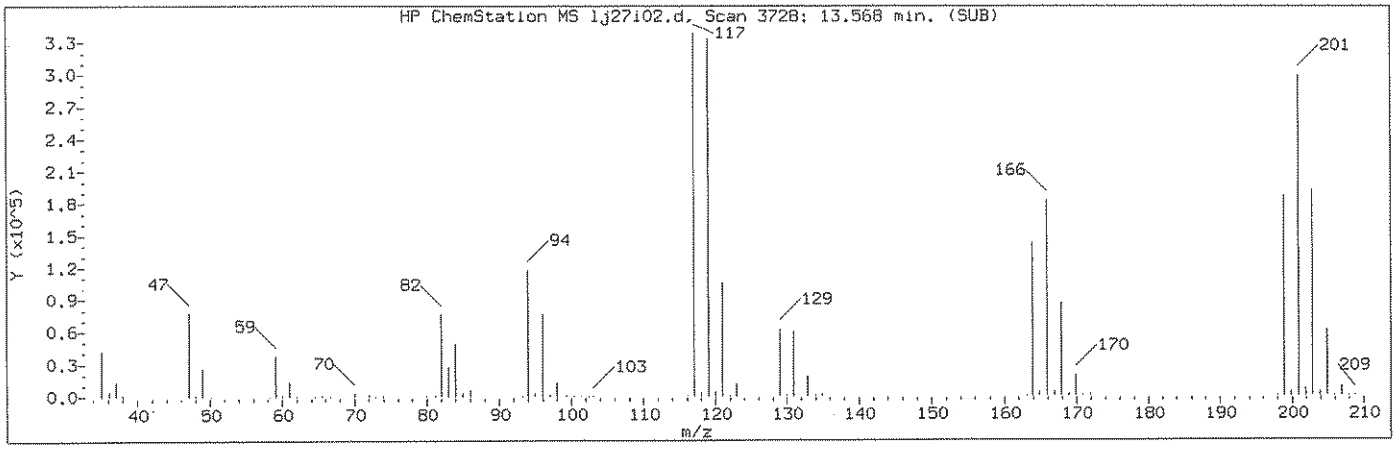
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD100 Lab Sample ID: VSTD100

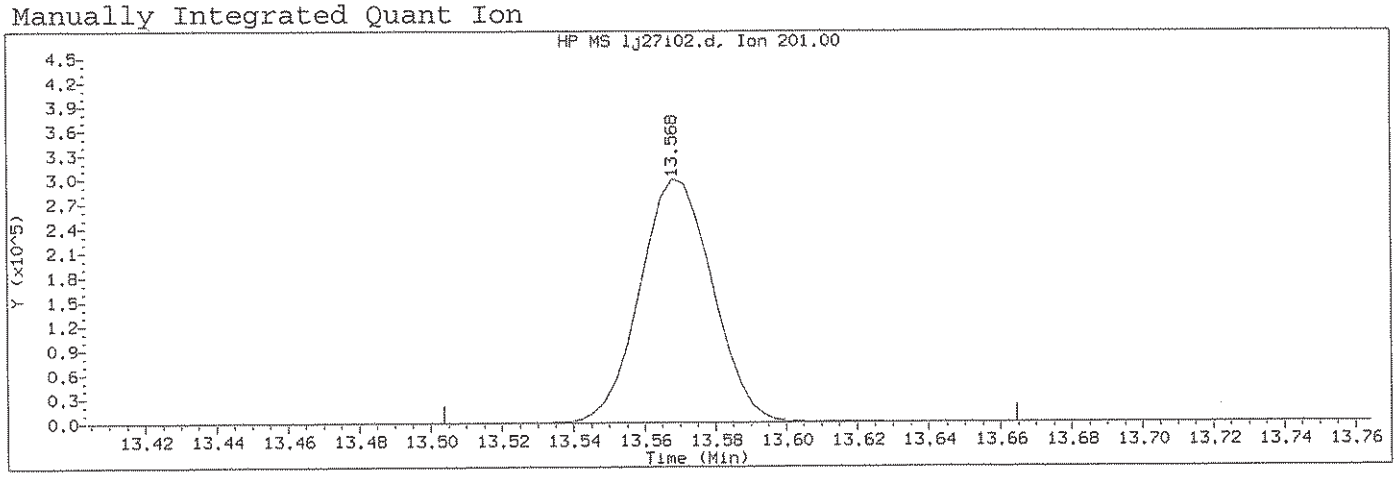
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3478		
Retention Time (minutes)	: 12.764		
Quant Ion	: 134.00		
Area	: 585748		
On-column Amount (ng)	: 106.1693		
Integration start scan	: 3464	Integration stop scan:	3498
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i02.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 13:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

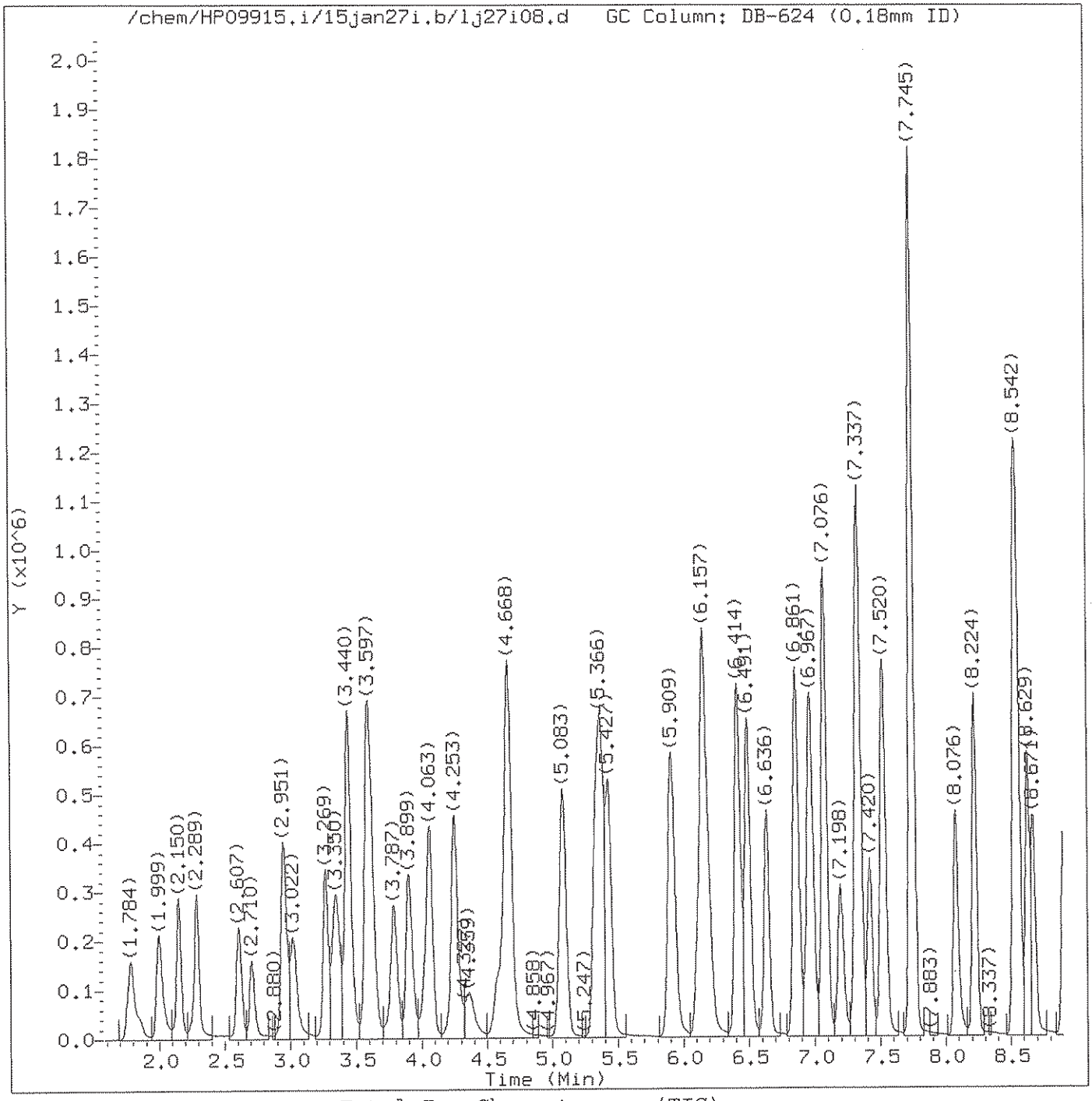
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 145		
Compound Name	: Hexachloroethane		
Scan Number	: 3728		
Retention Time (minutes)	: 13.568		
Quant Ion	: 201.00		
Area (flag)	: 429242M		
On-Column Amount (ng)	: 118.9049		
Integration start scan	: 3707	Integration stop scan:	3757
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: compound not in processing sublist

Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____



Total Ion Chromatogram (TIC)

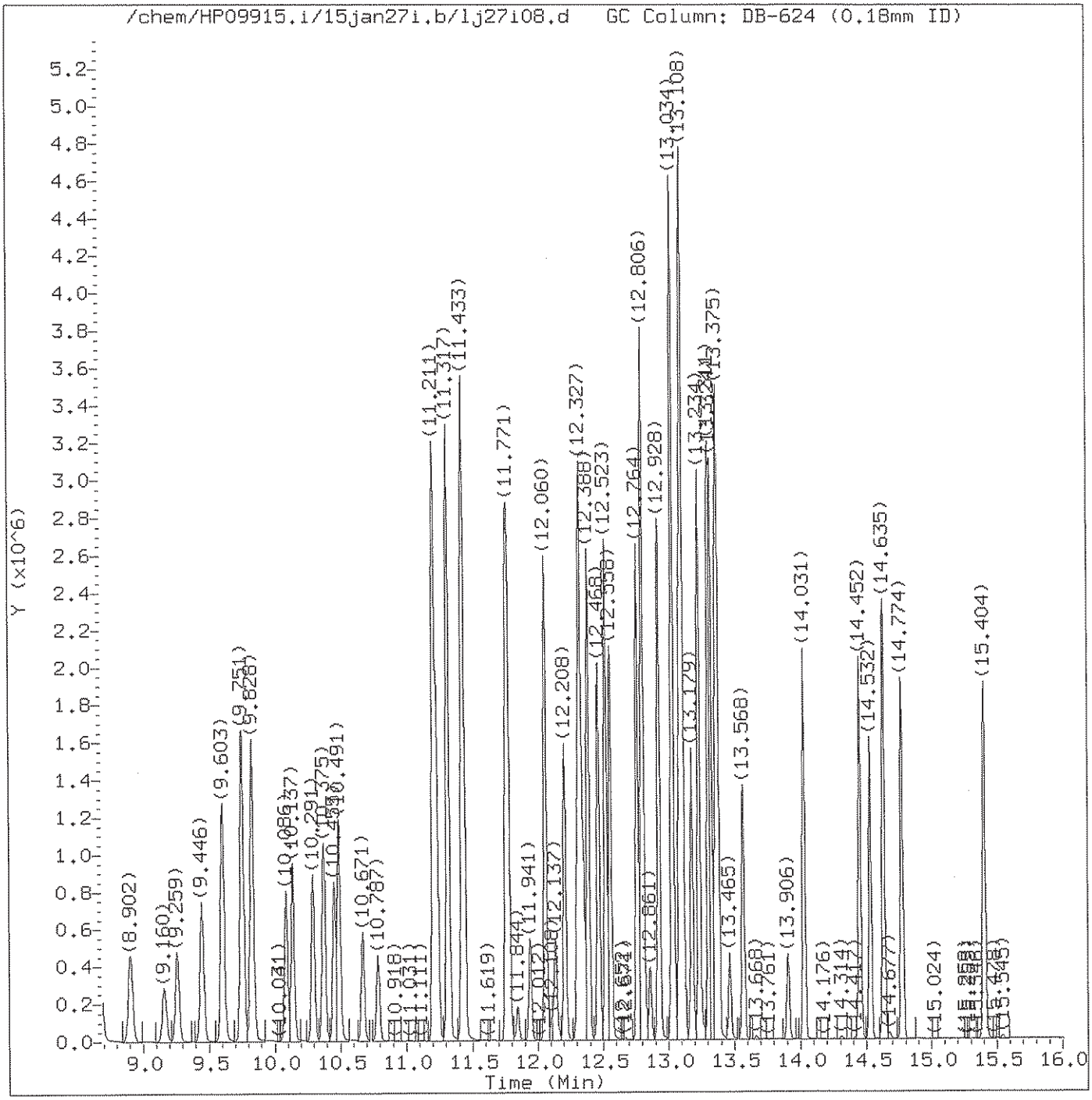
Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.999	85	438268	58.739
4) Chloromethane	(2)	2.150	50	412068	52.081
6) Vinyl Chloride	(2)	2.289	62	392564	53.526
8) Bromomethane	(2)	2.607	94	233123	53.274
9) Chloroethane	(2)	2.707	64	208162	52.521
43) 1,2-Dichloroethene (Total)	(2)		96	623336	98.102
10) Dichlorofluoromethane	(2)	2.951	67	492641	48.840
12) Trichlorofluoromethane	(2)	3.022	101	451460	56.837
14) Ethyl ether	(2)	3.269	59	294373	50.181
15) Freon 123a	(2)	3.346	67	361217M	50.603
16) Acrolein	(1)	3.443	56	1041288	550.433
17) 1,1-Dichloroethene	(2)	3.588	96	262094	49.259
17) 1,1-Dichloroethene	(2)	3.588	63	131540	48.673
18) Acetone	(1)	3.600	58	81386M	106.769
19) Freon 113	(2)	3.610	101	284707	52.848
21) 2-Propanol	(1)	3.761	45	157298	242.474
22) Methyl Iodide	(2)	3.793	142	474161	49.313
23) Carbon Disulfide	(2)	3.899	76	894430	50.415
27) Methyl Acetate	(2)	4.028	43	288780	47.144
25) Allyl Chloride	(2)	4.063	41	444650	48.647
29)*t-Butyl alcohol-d10	(1)	4.237	65	250743	250.000
28) Methylene Chloride	(2)	4.253	84	311437	47.867
30) t-Butyl alcohol	(1)	4.362	59	261610	245.278
31) Acrylonitrile	(2)	4.578	53	173256	55.434
33) Methyl Tertiary Butyl Ether	(2)	4.652	73	950597	48.525
32) trans-1,2-Dichloroethene	(2)	4.671	96	294319	48.669
34) n-Hexane	(2)	5.080	57	484409	53.067
36) 1,1-Dichloroethane	(2)	5.327	63	550278	49.357
38) di-Isopropyl ether	(2)	5.372	45	1029551	48.955
39) 2-Chloro-1,3-butadiene	(2)	5.433	53	478476	50.529
90) 1,3-Dichloropropene (total)	(3)		100	980065	102.841
40) Ethyl t-butyl ether	(2)	5.909	59	986001	48.635
44) 2-Butanone	(2)	6.112	43	433953	111.200
42) cis-1,2-Dichloroethene	(2)	6.153	96	329017	49.433
45) 2,2-Dichloropropane	(2)	6.163	77	424183	50.277
47) Propionitrile	(1)	6.195	54	313452	231.999
48) Methacrylonitrile	(2)	6.417	67	423863	120.752
49) Bromochloromethane	(2)	6.491	128	159454	48.961

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Tetrahydrofuran	(1)	6.497	71	116189	106.693
51) Chloroform	(2)	6.636	83	516511	48.833
52)$Dibromofluoromethane	(2)	6.854	113	312294	49.771
52)$Dibromofluoromethane	(2)	6.854	111	321915	50.261
53) 1,1,1-Trichloroethane	(2)	6.861	97	472682	47.103
54) Cyclohexane	(2)	6.970	56	586249	51.885
54) Cyclohexane	(2)	6.970	84	470578	51.492
54) Cyclohexane	(2)	6.973	69	175371	51.309
55) 1,1-Dichloropropene	(2)	7.076	75	413321	49.515
56) Carbon Tetrachloride	(2)	7.079	117	383544	51.276
58) Isobutyl Alcohol	(1)	7.198	41	217707	609.129
57)$1,2-Dichloroethane-d4	(2)	7.314	102	76711	49.385
57)$1,2-Dichloroethane-d4	(2)	7.314	65	360302	49.382
57)$1,2-Dichloroethane-d4	(2)	7.314	104	48717	55.192
60) Benzene	(2)	7.337	78	1256253	48.476
61) 1,2-Dichloroethane	(2)	7.420	62	394631	48.300
61) 1,2-Dichloroethane	(2)	7.420	98	39678	50.530
65) t-Amyl methyl ether	(2)	7.520	73	955208	48.835
66)*Fluorobenzene	(2)	7.742	96	1313190	50.000
67) n-Heptane	(2)	7.745	43	516917	53.555
108) Xylene (Total)	(3)		106	1764998	150.070
69) n-Butanol	(1)	8.076	56	398443	1265.475
71) Trichloroethene	(2)	8.221	95	321128	48.635
72) Methylcyclohexane	(2)	8.536	83	584484	51.008
72) Methylcyclohexane	(2)	8.536	98	261650	50.778
73) 1,2-Dichloropropane	(2)	8.558	63	338013	49.098
76) Methyl Methacrylate	(2)	8.626	69	284997	49.569
75) 1,4-Dioxane	(1)	8.642	88	64374M	598.116
74) Dibromomethane	(2)	8.674	93	207747	48.511
78) Bromodichloromethane	(2)	8.902	83	399558	50.380
79) 2-Nitropropane	(2)	9.160	41	223107	103.677
80) 2-Chloroethyl Vinyl Ether	(2)	9.259	63	256385	51.335
81) cis-1,3-Dichloropropene	(2)	9.446	75	512134	50.861
82) 4-Methyl-2-pentanone	(2)	9.603	43	1028544	120.629
83)$Toluene-d8	(3)	9.748	98	1290746	50.245
83)$Toluene-d8	(3)	9.751	100	851102	50.394
141) Diethylbenzene (total)	(4)		100	2490945	145.372
88) Toluene	(3)	9.828	92	785782	49.030

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on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
89) trans-1,3-Dichloropropene	(3)	10.086	75	467931	51.980
91) Ethyl Methacrylate	(3)	10.137	69	521256	50.720
92) 1,1,2-Trichloroethane	(3)	10.291	97	294988	48.646
93) Tetrachloroethene	(3)	10.375	166	338990	49.690
94) 1,3-Dichloropropane	(3)	10.455	76	515936	49.021
96) 2-Hexanone	(3)	10.491	43	777115	126.145
97) Dibromochloromethane	(3)	10.671	129	320287	52.413
99) 1,2-Dibromoethane	(3)	10.787	107	323400	49.718
100)*Chlorobenzene-d5	(3)	11.208	117	986664	50.000
101) 1-Chlorohexane	(3)	11.211	91	438538	50.074
102) Chlorobenzene	(3)	11.234	112	862915	49.058
104) Ethylbenzene	(3)	11.317	91	1529798	49.821
103) 1,1,1,2-Tetrachloroethane	(3)	11.317	131	299699	52.147
106) m+p-Xylene	(3)	11.433	106	1185651	100.067
107) o-Xylene	(3)	11.761	106	579347	50.003
109) Styrene	(3)	11.777	104	992982	51.176
110) Bromoform	(3)	11.941	173	240821	52.810
111) Isopropylbenzene	(3)	12.060	105	1553148	50.098
112) Cyclohexanone	(1)	12.137	55	235259	589.781
114)$4-Bromofluorobenzene	(3)	12.208	95	504423	49.321
114)$4-Bromofluorobenzene	(3)	12.211	174	410505	49.145
116) 1,1,2,2-Tetrachloroethane	(4)	12.304	83	473008	50.327
115) Bromobenzene	(4)	12.324	156	385641	50.556
118) trans-1,4-Dichloro-2-butene	(4)	12.330	53	299518	134.380
117) 1,2,3-Trichloropropane	(4)	12.353	110	134142	49.301
119) n-Propylbenzene	(4)	12.388	91	1854719	50.521
120) 2-Chlorotoluene	(4)	12.468	126	362816	50.227
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	1336693	50.888
121) 4-Chlorotoluene	(4)	12.558	126	377281	50.143
124) tert-Butylbenzene	(4)	12.764	134	272954M	50.475
125) Pentachloroethane	(4)	12.803	167	230124	52.727
126) 1,2,4-Trimethylbenzene	(4)	12.809	105	1358725	50.943
127) sec-Butylbenzene	(4)	12.928	105	1729421	51.224
129) 1,3-Dichlorobenzene	(4)	13.031	146	736881	50.132
130) p-Isopropyltoluene	(4)	13.037	119	1495434	51.437
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	519597	50.000
133) 1,4-Dichlorobenzene	(4)	13.108	146	755203	49.738
134) 1,2,3-Trimethylbenzene	(4)	13.111	105	1374838	49.915

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on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
135) Benzyl Chloride	(4)	13.179	91	982367	55.809
136) 1,3-Diethylbenzene	(4)	13.234	119	888507	48.713
137) 1,4-Diethylbenzene	(4)	13.307	119	896061	48.423
139) n-Butylbenzene	(4)	13.327	92	761499	50.277
138) 1,2-Dichlorobenzene	(4)	13.362	146	733594	49.418
140) 1,2-Diethylbenzene	(4)	13.378	119	706377	48.236
145) Hexachloroethane	(4)	13.568	201	206218M	55.347
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	99109	52.242
144) 1,3,5-Trichlorobenzene	(4)	14.031	180	599345	48.468
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	569340	47.770
147) Hexachlorobutadiene	(4)	14.532	225	265821	47.508
148) Naphthalene	(4)	14.635	128	1645016	48.512
149) 1,2,3-Trichlorobenzene	(4)	14.774	180	539286	47.441
150) 2-Methylnaphthalene	(4)	15.404	142	912992	42.209

M = Compound was manually integrated.

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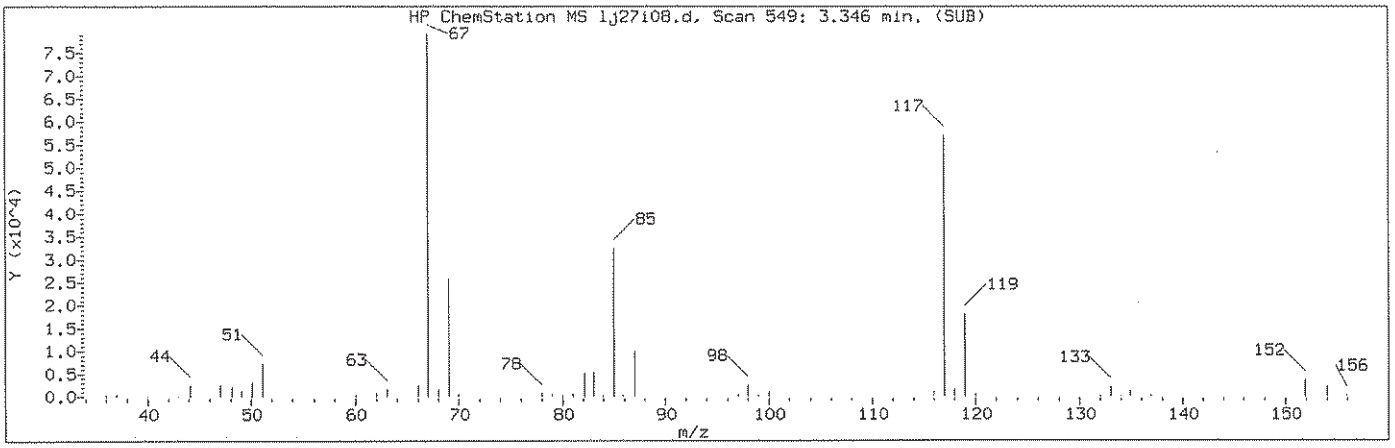
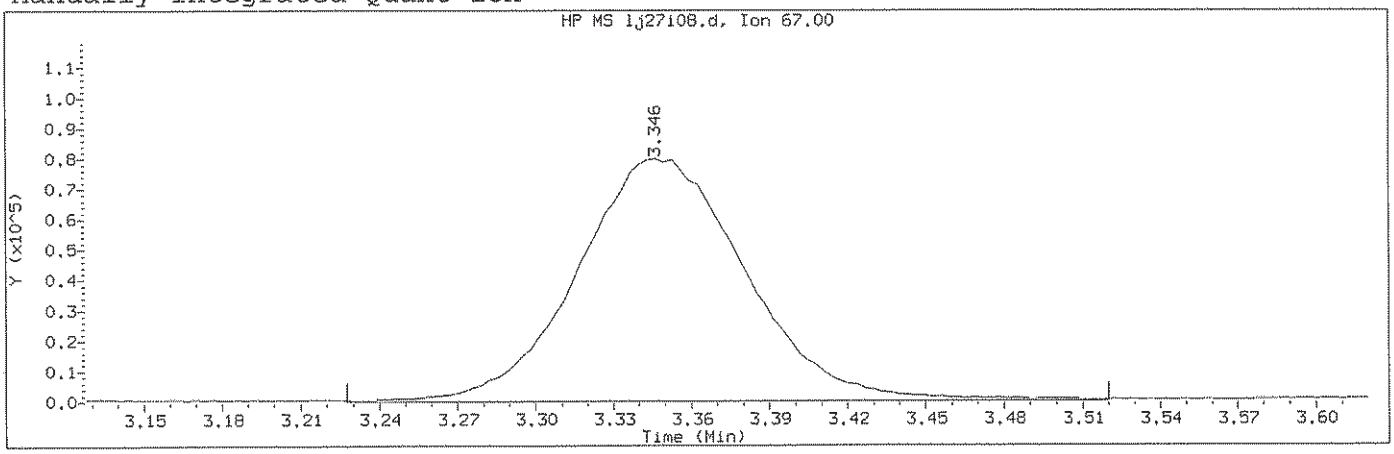
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

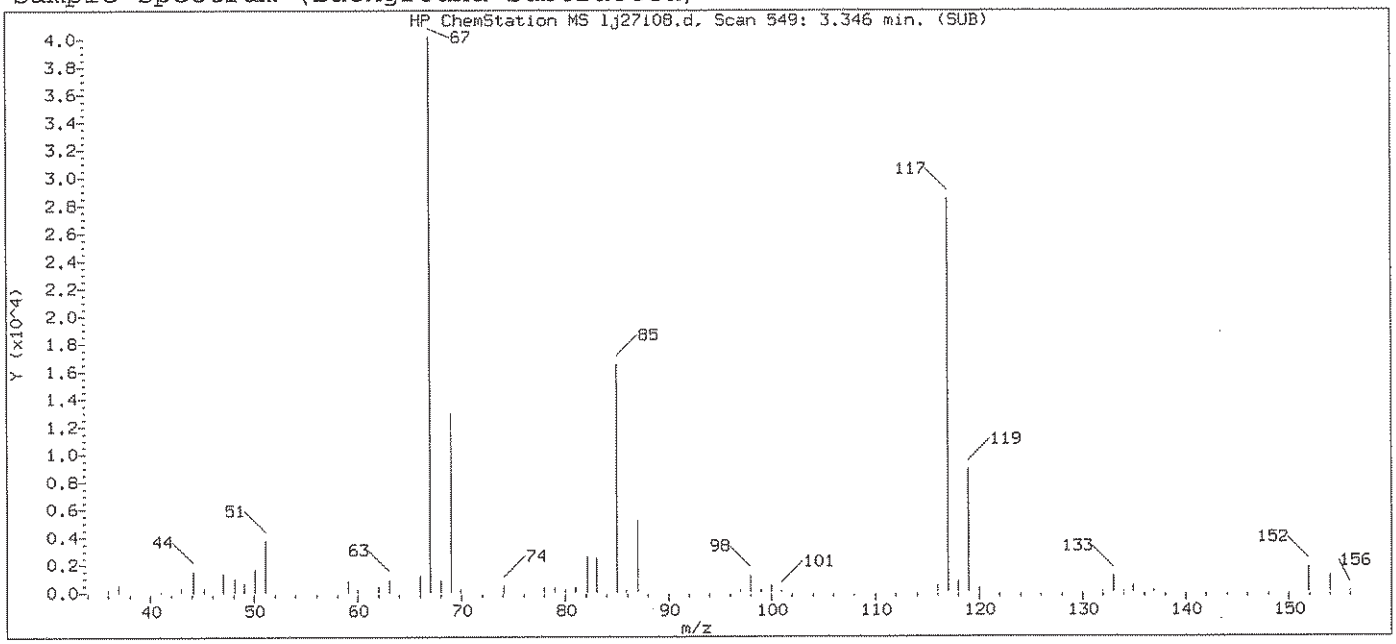
Compound Number	: 15		
Compound Name	: Freon 123a		
Scan Number	: 549		
Retention Time (minutes)	: 3.346		
Quant Ion	: 67.00		
Area (flag)	: 361217M		
On-Column Amount (ng)	: 50.6032		
Integration start scan	: 511	Integration stop scan:	602
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

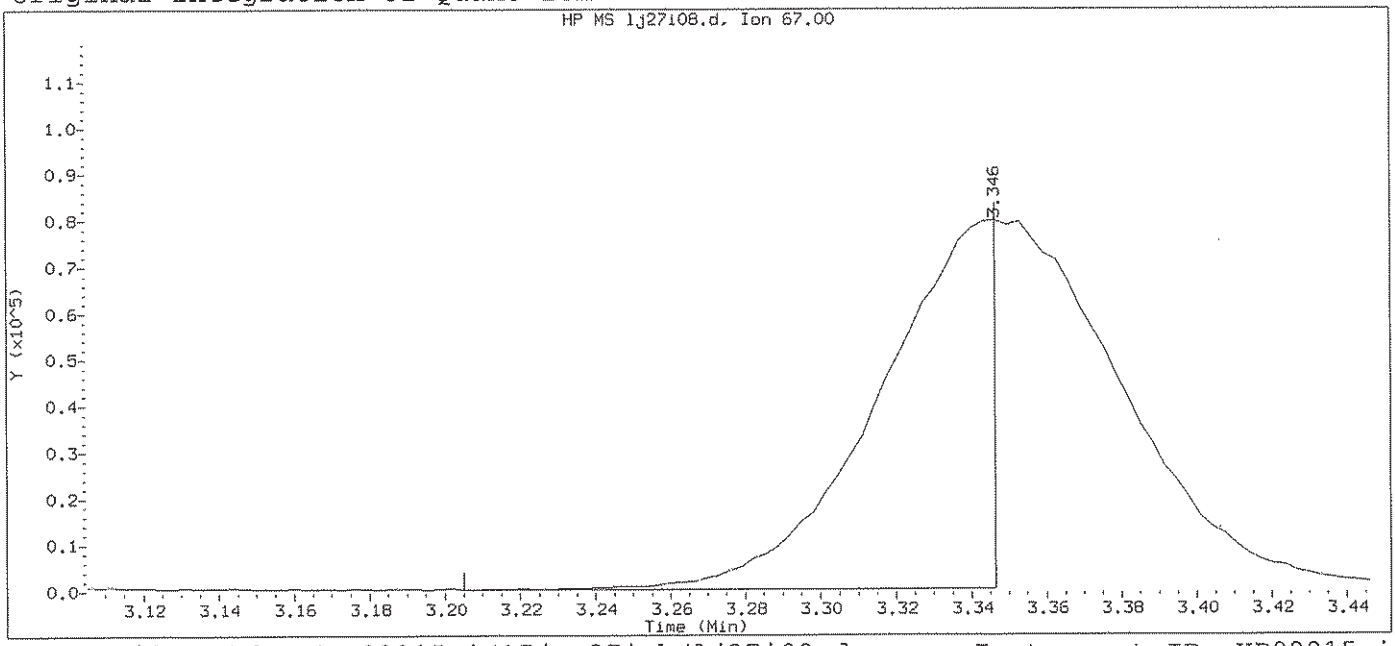
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 15		
Compound Name	: Freon 123a		
Scan Number	: 549		
Retention Time (minutes)	: 3.346		
Quant Ion	: 67.00		
Area	: 165346		
On-column Amount (ng)	: 25.8098		
Integration start scan	: 504	Integration stop scan:	548
Y at integration start	: 364	Y at integration end:	348

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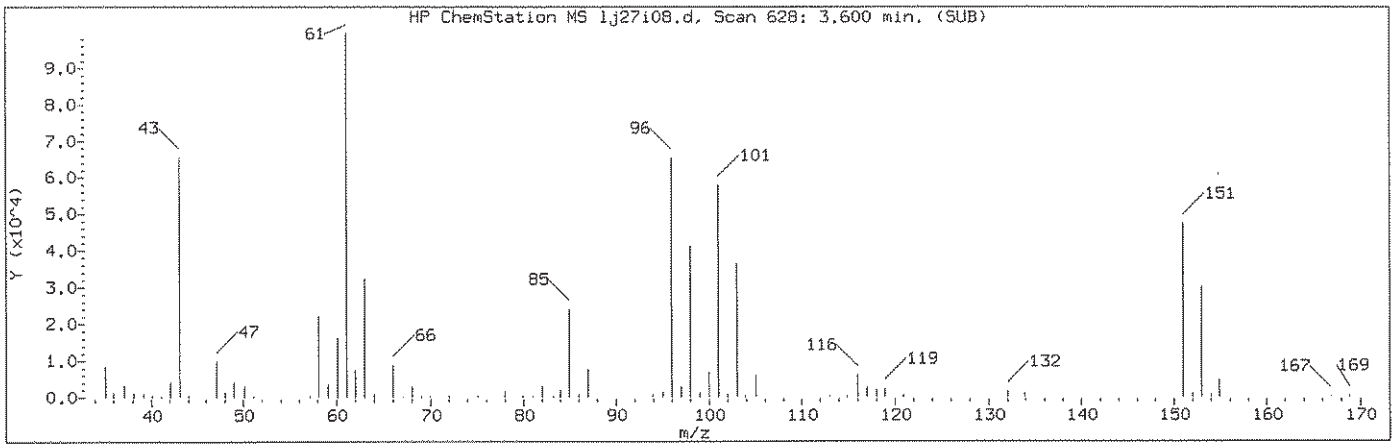
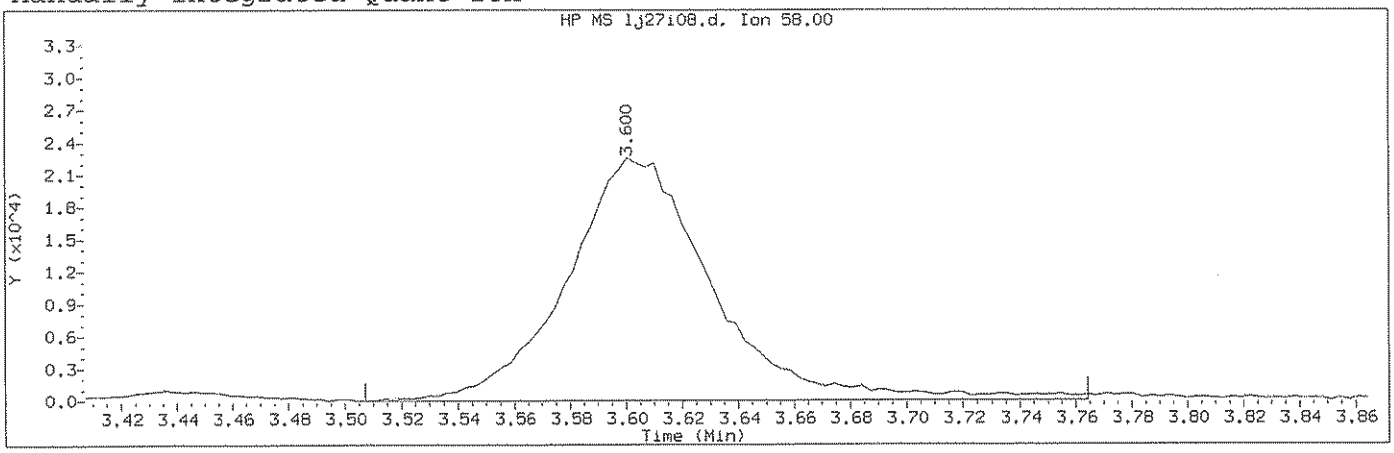
Target 3.5 esignature us[illegible] Page 03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

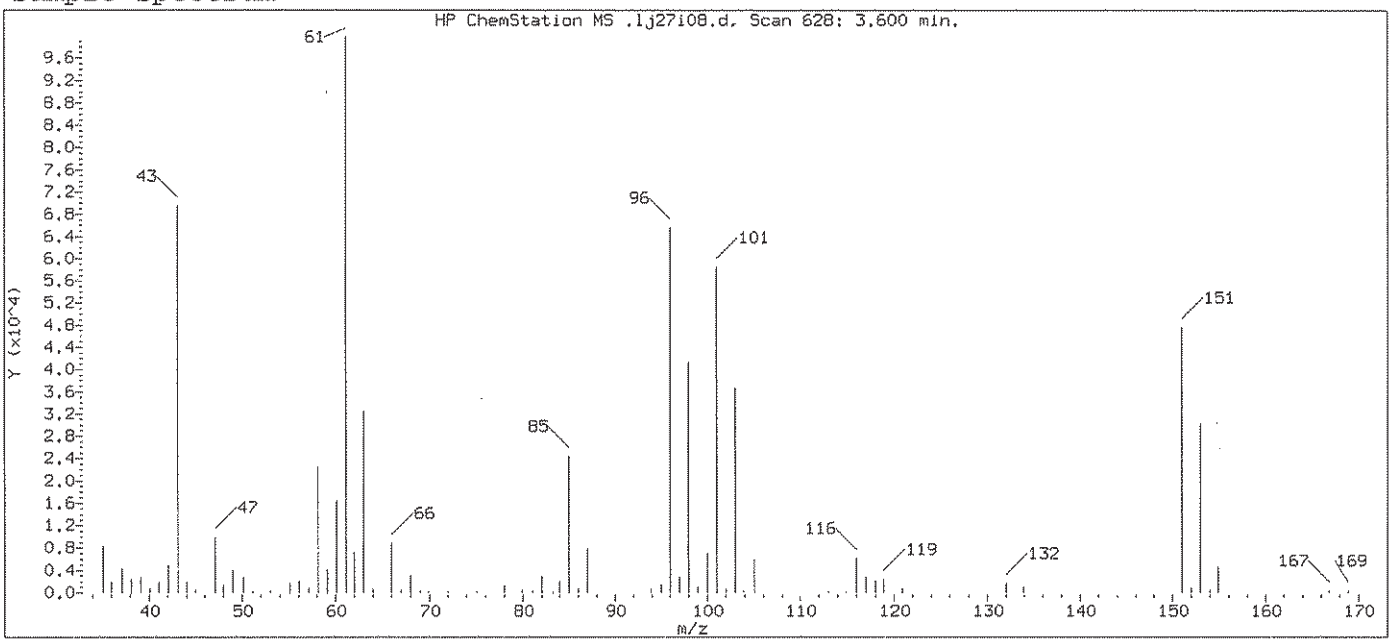
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 628		
Retention Time (minutes)	: 3.600		
Quant Ion	: 58.00		
Area (flag)	: 81386M		
On-Column Amount (ng)	: 106.7687		
Integration start scan	: 598	Integration stop scan:	678
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

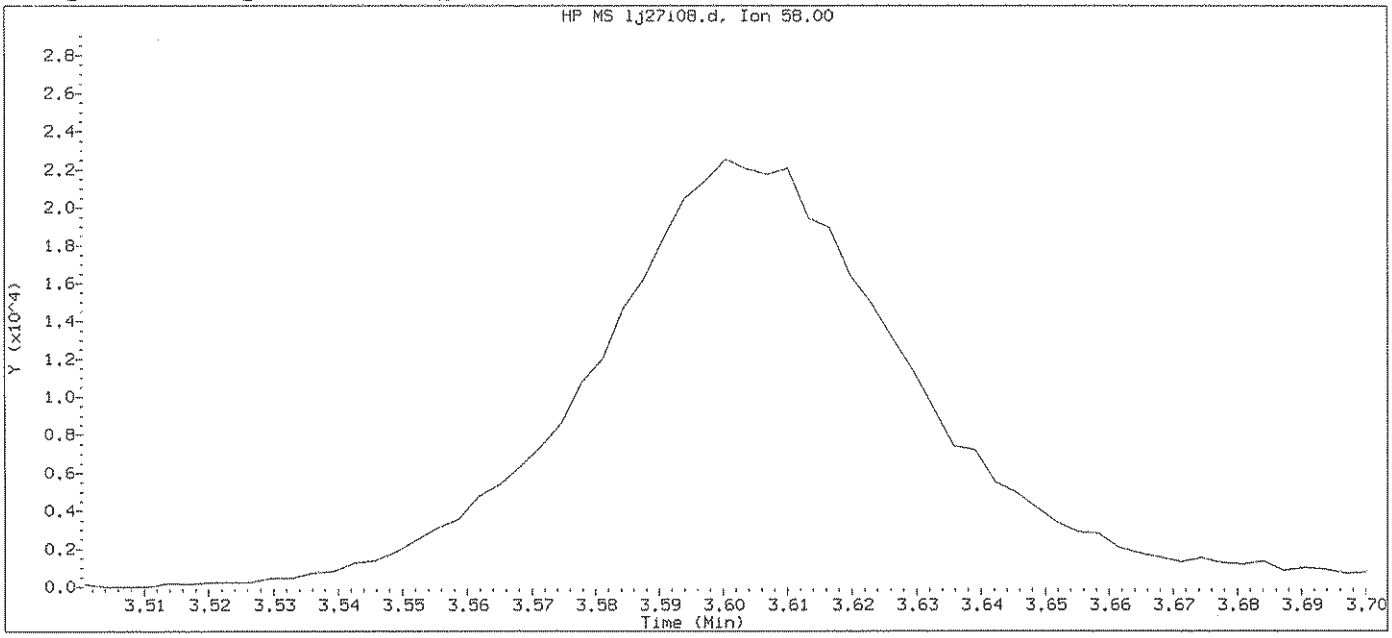
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

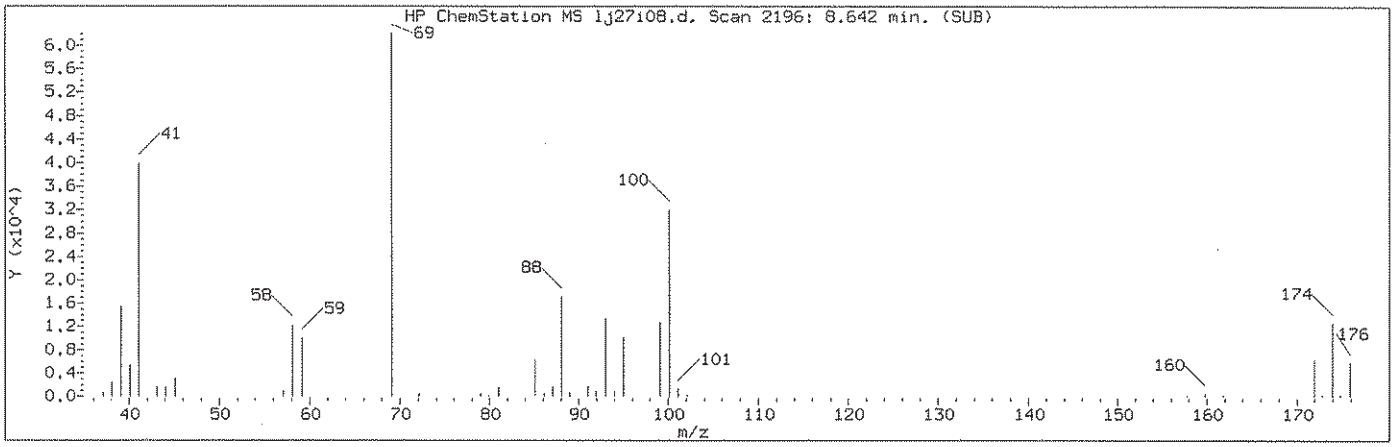
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD050 Lab Sample ID: VSTD050

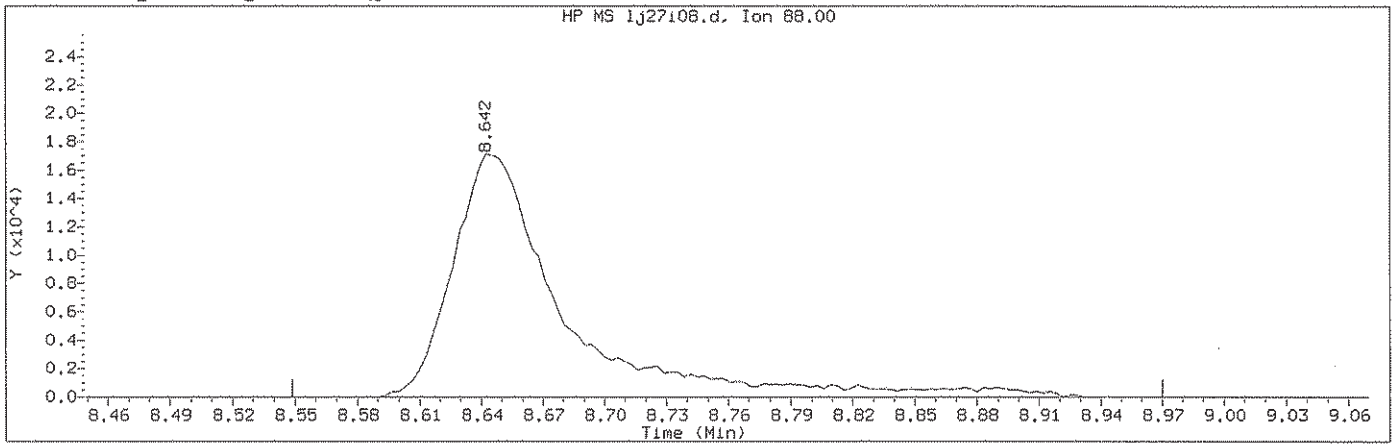
Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

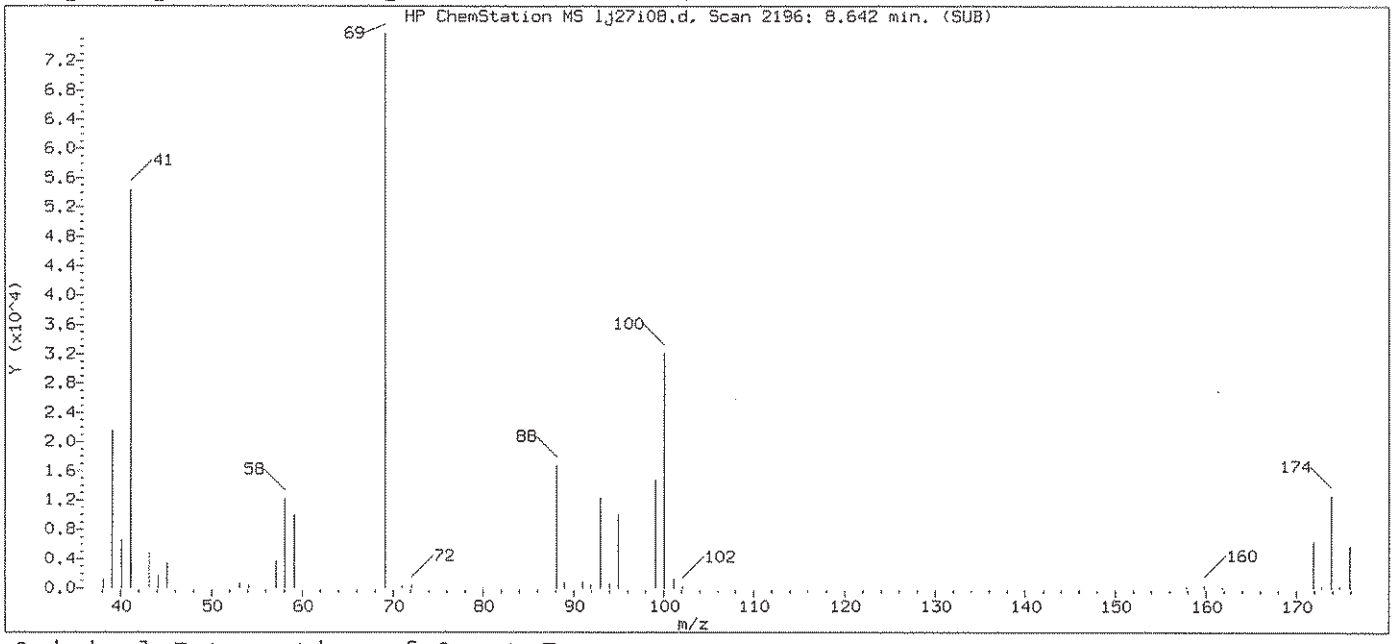
Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2196		
Retention Time (minutes)	: 8.642		
Quant Ion	: 88.00		
Area (flag)	: 64374M		
On-Column Amount (ng)	: 598.1162		
Integration start scan	: 2166	Integration stop scan:	2297
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

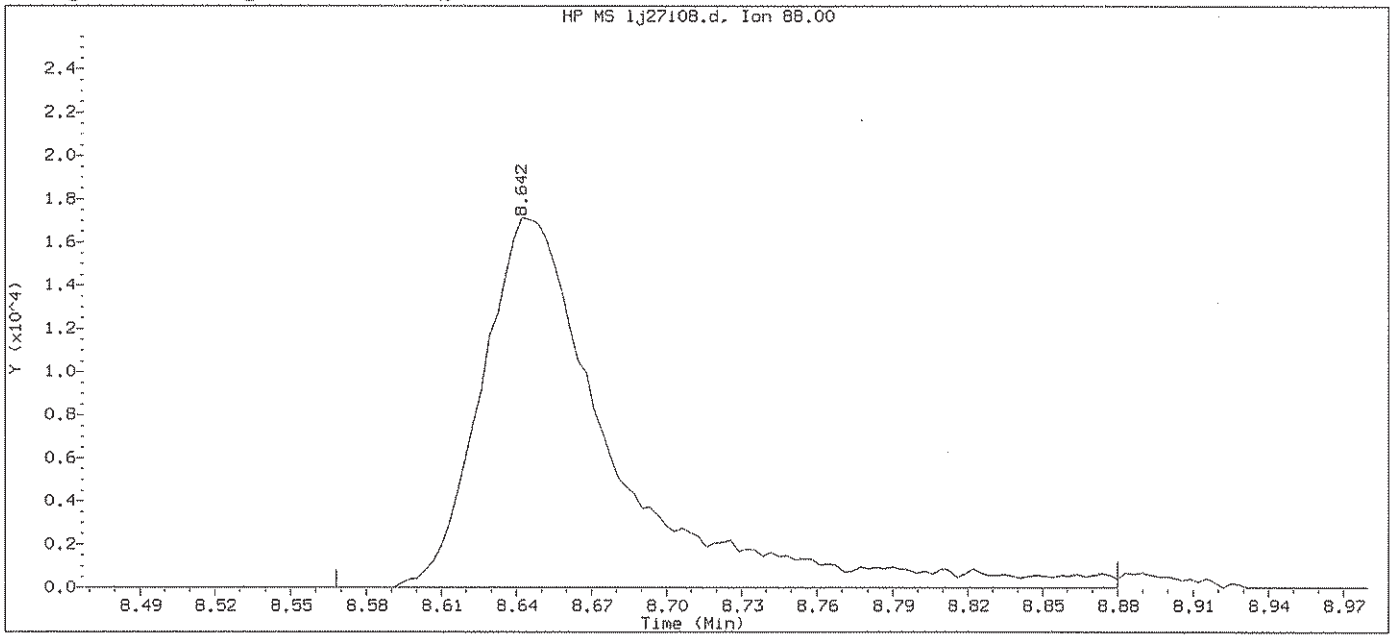
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 75
Compound Name	: 1,4-Dioxane
Scan Number	: 2196
Retention Time (minutes)	: 8.642
Quant Ion	: 88.00
Area	: 63172
On-column Amount (ng)	: 597.1693
Integration start scan	: 2172
Integration stop scan	: 2269
Y at integration start	: 0
Y at integration end	: 0

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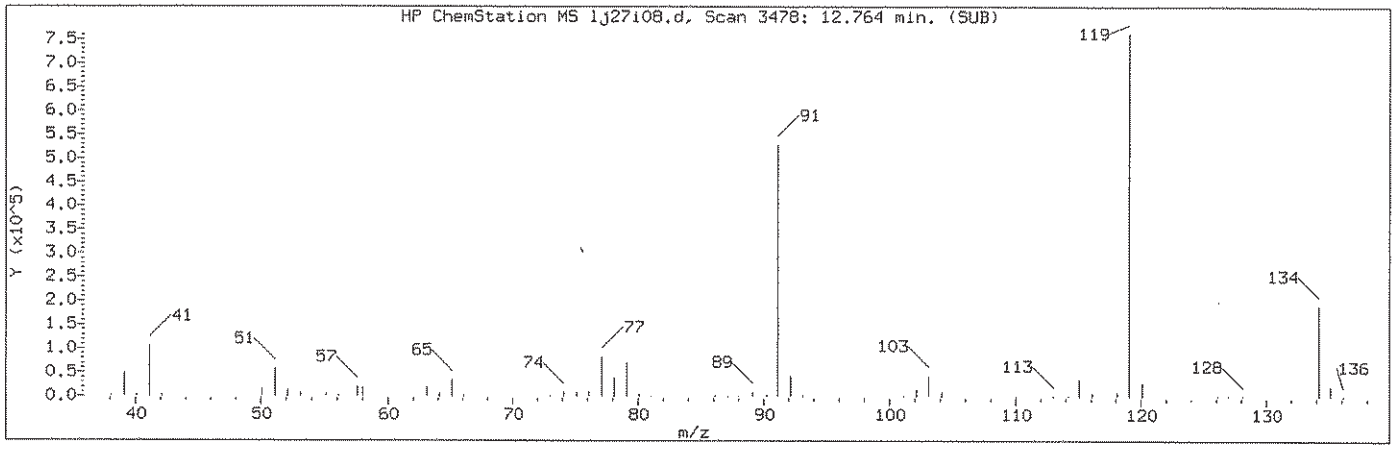
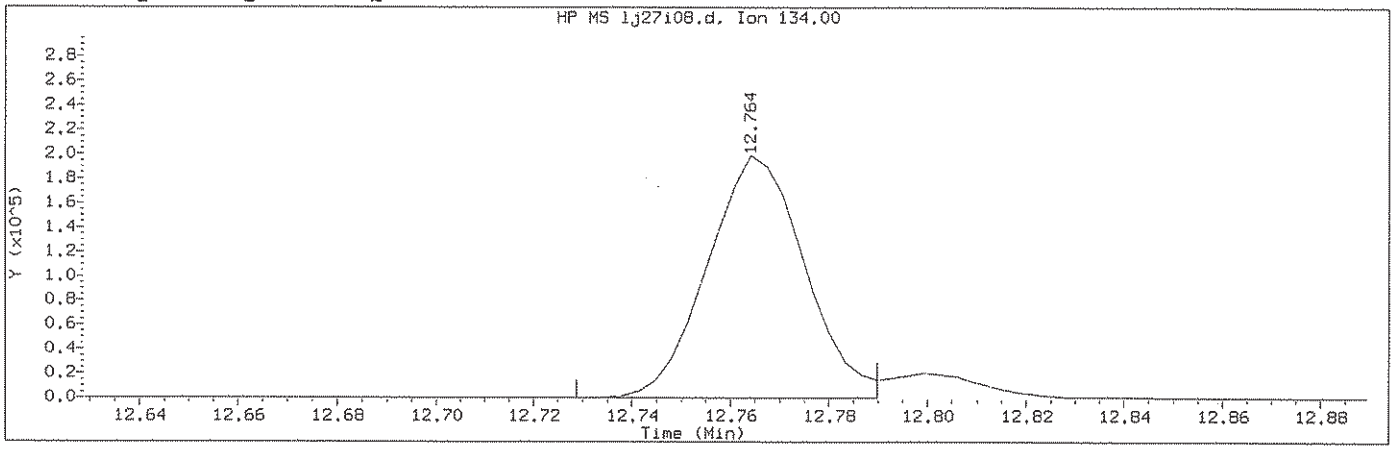
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD050 Lab Sample ID: VSTD050

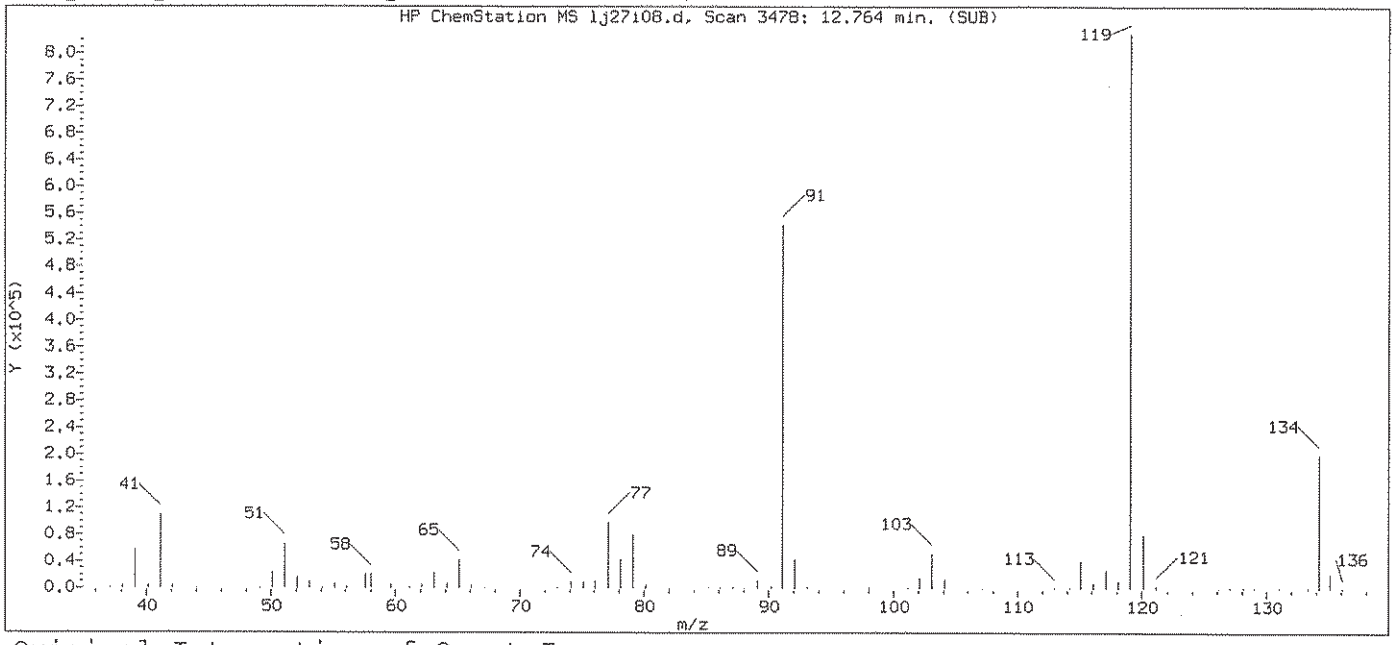
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3478		
Retention Time (minutes)	: 12.764		
Quant Ion	: 134.00		
Area (flag)	: 272954M		
On-Column Amount (ng)	: 50.4752		
Integration start scan	: 3466	Integration stop scan:	3485
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

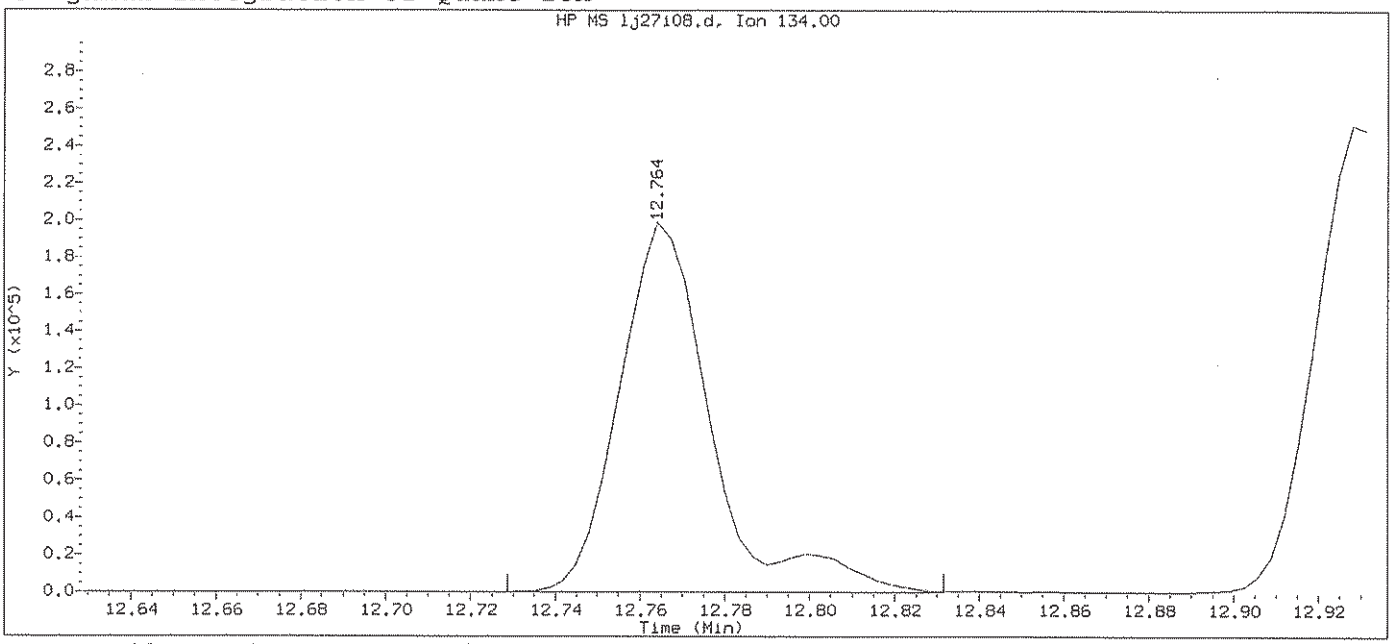
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 124
Compound Name : tert-Butylbenzene
Scan Number : 3478
Retention Time (minutes): 12.764
Quant Ion : 134.00
Area : 298335
On-column Amount (ng) : 50.7657
Integration start scan : 3466 Integration stop scan: 3498
Y at integration start : 0 Y at integration end: 0

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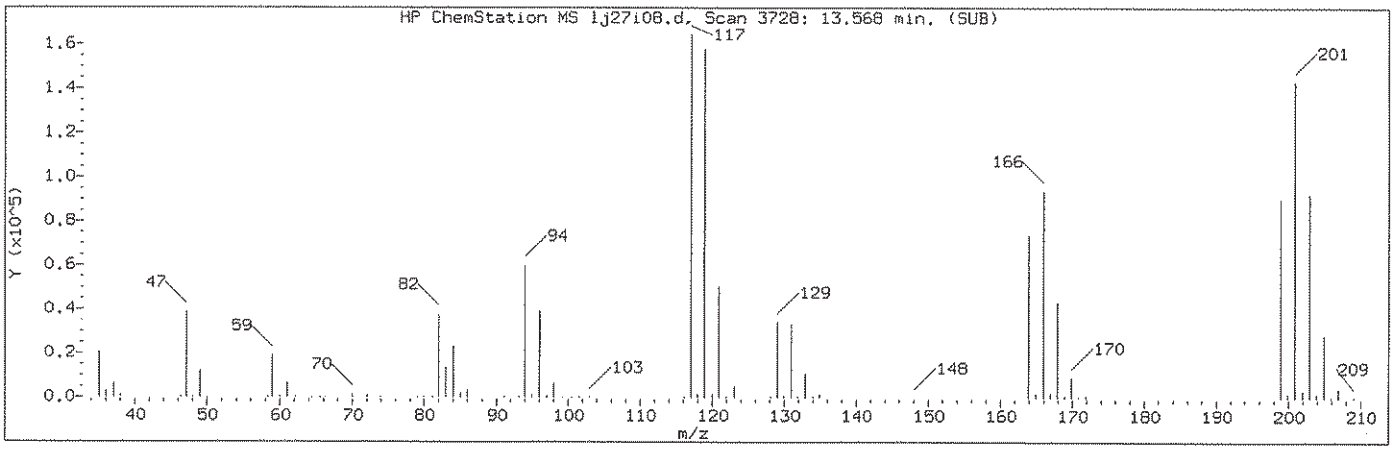
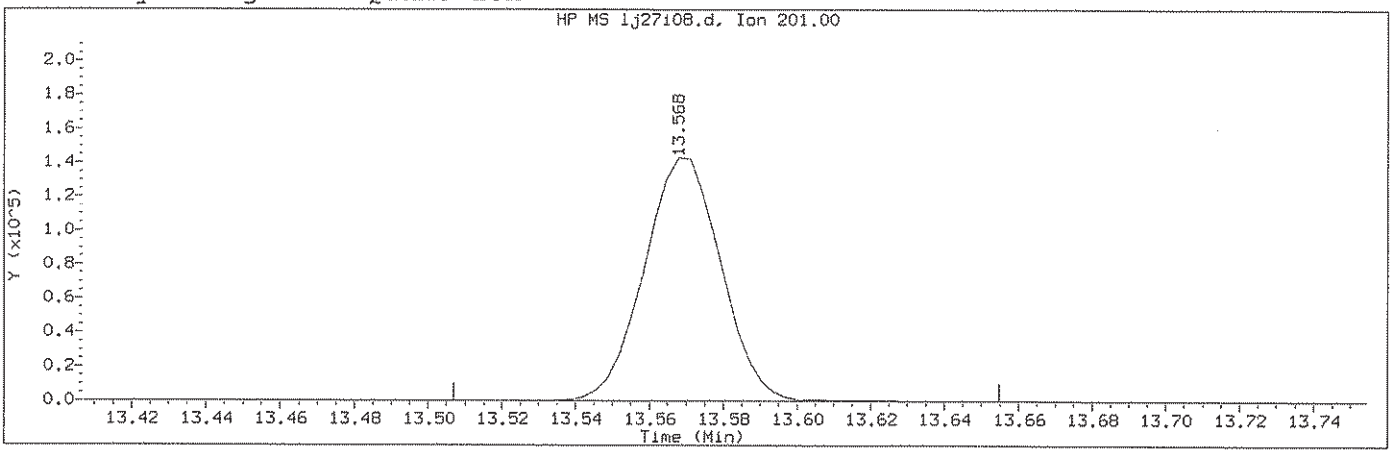
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i08.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 14:36 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

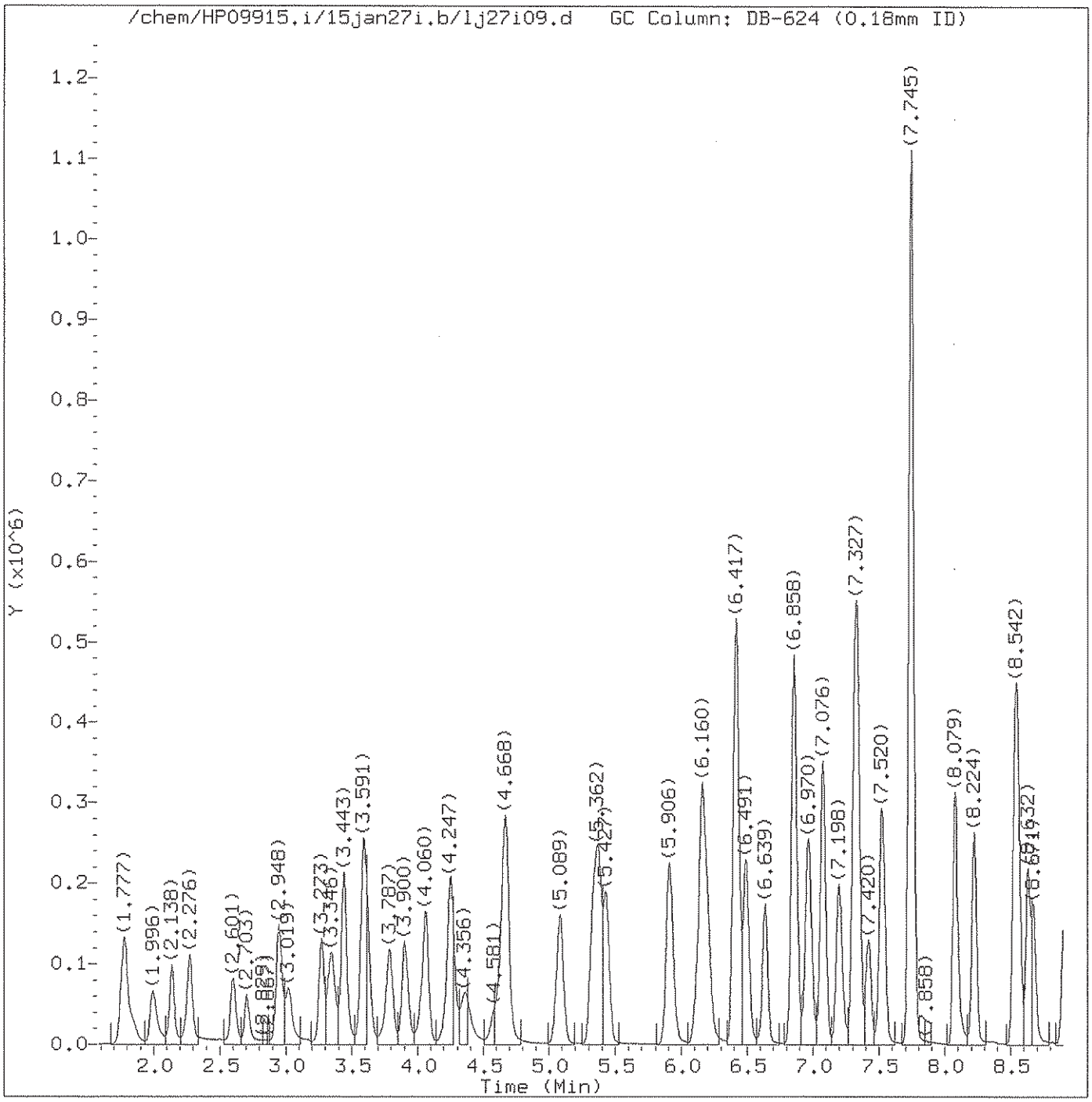
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 145		
Compound Name	: Hexachloroethane		
Scan Number	: 3728		
Retention Time (minutes)	: 13.568		
Quant Ion	: 201.00		
Area (flag)	: 206218M		
On-Column Amount (ng)	: 55.3465		
Integration start scan	: 3708	Integration stop scan:	3754
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: compound not in processing sublist

Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15



Total Ion Chromatogram (TIC)

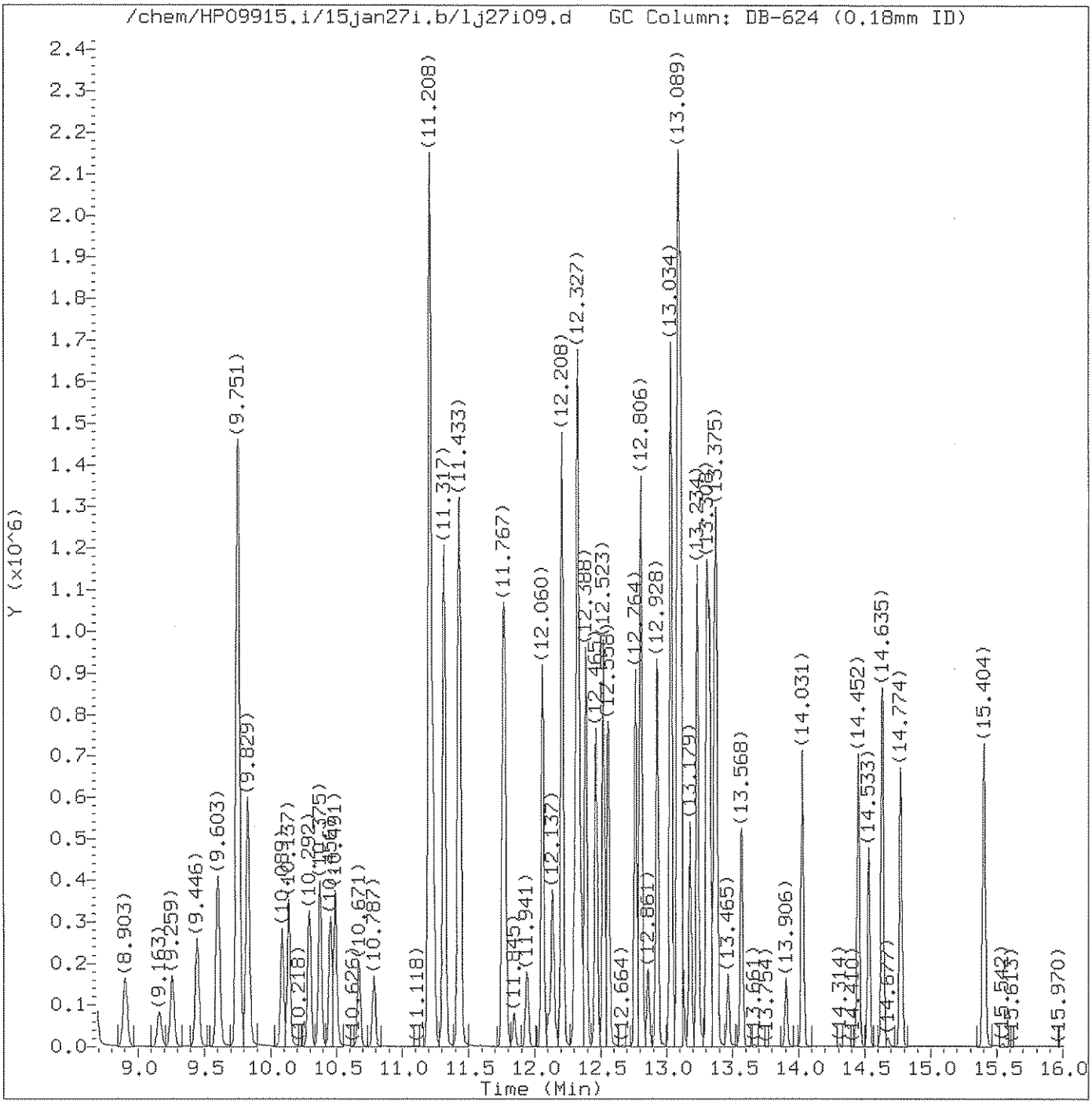
Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.993	85	137359	20.595
4) Chloromethane	(2)	2.138	50	138046	19.519
6) Vinyl Chloride	(2)	2.276	62	130668	19.931
8) Bromomethane	(2)	2.604	94	78867	20.162
9) Chloroethane	(2)	2.703	64	70434	19.881
43) 1,2-Dichloroethene (Total)	(2)		96	232774	40.986
10) Dichlorofluoromethane	(2)	2.945	67	187699	20.817
12) Trichlorofluoromethane	(2)	3.019	101	145702	20.521
14) Ethyl ether	(2)	3.273	59	109859	20.951
15) Freon 123a	(2)	3.346	67	134633	21.100
16) Acrolein	(1)	3.443	56	324313	198.482
17) 1,1-Dichloroethene	(2)	3.584	96	97006M	20.396
17) 1,1-Dichloroethene	(2)	3.584	63	49412M	20.454
18) Acetone	(1)	3.607	58	26044M	39.557
19) Freon 113	(2)	3.613	101	102583	21.302
21) 2-Propanol	(1)	3.768	45	105489	188.266
22) Methyl Iodide	(2)	3.787	142	176048	20.483
23) Carbon Disulfide	(2)	3.900	76	323670	20.409
27) Methyl Acetate	(2)	4.031	43	106933	19.529
25) Allyl Chloride	(2)	4.067	41	167389	20.487
29)*t-Butyl alcohol-d10	(1)	4.240	65	216574	250.000
28) Methylene Chloride	(2)	4.250	84	118804	20.117
30) t-Butyl alcohol	(1)	4.366	59	184480	200.252
31) Acrylonitrile	(2)	4.588	53	55980	20.038
33) Methyl Tertiary Butyl Ether	(2)	4.652	73	356163	20.339
32) trans-1,2-Dichloroethene	(2)	4.674	96	110066M	20.361
34) n-Hexane	(2)	5.083	57	156464	19.175
36) 1,1-Dichloroethane	(2)	5.330	63	207277	20.799
38) di-Isopropyl ether	(2)	5.369	45	385672	20.516
39) 2-Chloro-1,3-butadiene	(2)	5.436	53	175117	20.689
90) 1,3-Dichloropropene (total)	(3)		100	350525	40.808
40) Ethyl t-butyl ether	(2)	5.906	59	370706	20.456
44) 2-Butanone	(2)	6.115	43	139294	39.932
42) cis-1,2-Dichloroethene	(2)	6.157	96	122708	20.625
45) 2,2-Dichloropropane	(2)	6.163	77	155450	20.612
47) Propionitrile	(1)	6.202	54	234727	201.141
48) Methacrylonitrile	(2)	6.420	67	322255	102.705
49) Bromochloromethane	(2)	6.488	128	60366	20.736

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Tetrahydrofuran	(1)	6.491	71	36718	39.037
51) Chloroform	(2)	6.639	83	192584	20.369
52)$Dibromofluoromethane	(2)	6.854	113	283357	50.521
52)$Dibromofluoromethane	(2)	6.851	111	288033	50.310
53) 1,1,1-Trichloroethane	(2)	6.864	97	184624	20.582
54) Cyclohexane	(2)	6.967	56	205853	20.381
54) Cyclohexane	(2)	6.970	84	165328	20.238
54) Cyclohexane	(2)	6.970	69	61523	20.137
55) 1,1-Dichloropropene	(2)	7.076	75	152395	20.424
56) Carbon Tetrachloride	(2)	7.076	117	136574	20.426
58) Isobutyl Alcohol	(1)	7.198	41	153141	496.079
57)$1,2-Dichloroethane-d4	(2)	7.317	102	70695M	50.915
57)$1,2-Dichloroethane-d4	(2)	7.311	65	330299	50.644
57)$1,2-Dichloroethane-d4	(2)	7.314	104	38702	49.051
60) Benzene	(2)	7.337	78	472481	20.397
61) 1,2-Dichloroethane	(2)	7.420	62	147701	20.224
61) 1,2-Dichloroethane	(2)	7.420	98	14537	20.711
65) t-Amyl methyl ether	(2)	7.520	73	358275	20.491
66)*Fluorobenzene	(2)	7.742	96	1173837	50.000
67) n-Heptane	(2)	7.745	43	155024	17.968
108) Xylene (Total)	(3)		106	664199	62.192
69) n-Butanol	(1)	8.079	56	276342	1016.147
71) Trichloroethene	(2)	8.224	95	120165	20.360
72) Methylcyclohexane	(2)	8.536	83	212416	20.738
72) Methylcyclohexane	(2)	8.539	98	94682	20.556
73) 1,2-Dichloropropane	(2)	8.565	63	125432	20.382
76) Methyl Methacrylate	(2)	8.626	69	103691	20.176
75) 1,4-Dioxane	(1)	8.642	88	47271M	508.502
74) Dibromomethane	(2)	8.674	93	76631	20.018
78) Bromodichloromethane	(2)	8.903	83	144025	20.316
79) 2-Nitropropane	(2)	9.163	41	65603	36.548
80) 2-Chloroethyl Vinyl Ether	(2)	9.259	63	92745	20.775
81) cis-1,3-Dichloropropene	(2)	9.446	75	184504	20.499
82) 4-Methyl-2-pentanone	(2)	9.603	43	326504	42.839
83)$Toluene-d8	(3)	9.751	98	1155204	49.521
83)$Toluene-d8	(3)	9.751	100	759832	49.544
141) Diethylbenzene (total)	(4)		100	953230	60.103
88) Toluene	(3)	9.829	92	298286	20.496

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on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
89) trans-1,3-Dichloropropene	(3)	10.089	75	166021	20.309
91) Ethyl Methacrylate	(3)	10.137	69	190837	20.449
92) 1,1,2-Trichloroethane	(3)	10.292	97	110339	20.037
93) Tetrachloroethene	(3)	10.375	166	124554	20.106
94) 1,3-Dichloropropane	(3)	10.456	76	191732	20.061
96) 2-Hexanone	(3)	10.491	43	248574	44.434
97) Dibromochloromethane	(3)	10.671	129	111172	20.034
99) 1,2-Dibromoethane	(3)	10.787	107	118949	20.138
100)*Chlorobenzene-d5	(3)	11.208	117	895971	50.000
101) 1-Chlorohexane	(3)	11.211	91	162038	20.375
102) Chlorobenzene	(3)	11.234	112	327262	20.489
104) Ethylbenzene	(3)	11.317	91	571912	20.511
103) 1,1,1,2-Tetrachloroethane	(3)	11.317	131	109002	20.886
106) m+p-Xylene	(3)	11.433	106	445287	41.386
107) o-Xylene	(3)	11.761	106	218912	20.807
109) Styrene	(3)	11.777	104	369184	20.953
110) Bromoform	(3)	11.944	173	80930	19.544
111) Isopropylbenzene	(3)	12.060	105	563441	20.014
112) Cyclohexanone	(1)	12.137	55	163485	474.509
114)$4-Bromofluorobenzene	(3)	12.208	95	461254	49.665
114)$4-Bromofluorobenzene	(3)	12.211	174	378524	49.903
116) 1,1,2,2-Tetrachloroethane	(4)	12.304	83	176852	20.320
115) Bromobenzene	(4)	12.324	156	143733	20.348
118) trans-1,4-Dichloro-2-butene	(4)	12.330	53	211768	102.601
117) 1,2,3-Trichloropropane	(4)	12.353	110	49880	19.797
119) n-Propylbenzene	(4)	12.388	91	667916	19.647
120) 2-Chlorotoluene	(4)	12.465	126	133156	19.907
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	482712	19.845
121) 4-Chlorotoluene	(4)	12.558	126	139239	19.984
124) tert-Butylbenzene	(4)	12.764	134	93870M	18.746
125) Pentachloroethane	(4)	12.800	167	85274	21.099
126) 1,2,4-Trimethylbenzene	(4)	12.806	105	491914	19.917
127) sec-Butylbenzene	(4)	12.928	105	578600	18.507
129) 1,3-Dichlorobenzene	(4)	13.031	146	273548	20.097
130) p-Isopropyltoluene	(4)	13.034	119	509171	18.913
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	481154	50.000
133) 1,4-Dichlorobenzene	(4)	13.108	146	282717	20.108
134) 1,2,3-Trimethylbenzene	(4)	13.111	105	528186	20.708

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on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
135) Benzyl Chloride	(4)	13.179	91	334879	20.545
136) 1,3-Diethylbenzene	(4)	13.234	119	337932	20.008
137) 1,4-Diethylbenzene	(4)	13.308	119	343095	20.022
139) n-Butylbenzene	(4)	13.327	92	250960	17.893
138) 1,2-Dichlorobenzene	(4)	13.362	146	273272	19.880
140) 1,2-Diethylbenzene	(4)	13.378	119	272203	20.073
145) Hexachloroethane	(4)	13.568	201	73860M	21.407
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	34572	19.680
144) 1,3,5-Trichlorobenzene	(4)	14.031	180	202332	17.928
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	197248	18.098
147) Hexachlorobutadiene	(4)	14.533	225	80360	16.367
148) Naphthalene	(4)	14.635	128	605112	19.271
149) 1,2,3-Trichlorobenzene	(4)	14.774	180	190306	18.221
150) 2-Methylnaphthalene	(4)	15.404	142	349195	18.115

M = Compound was manually integrated.

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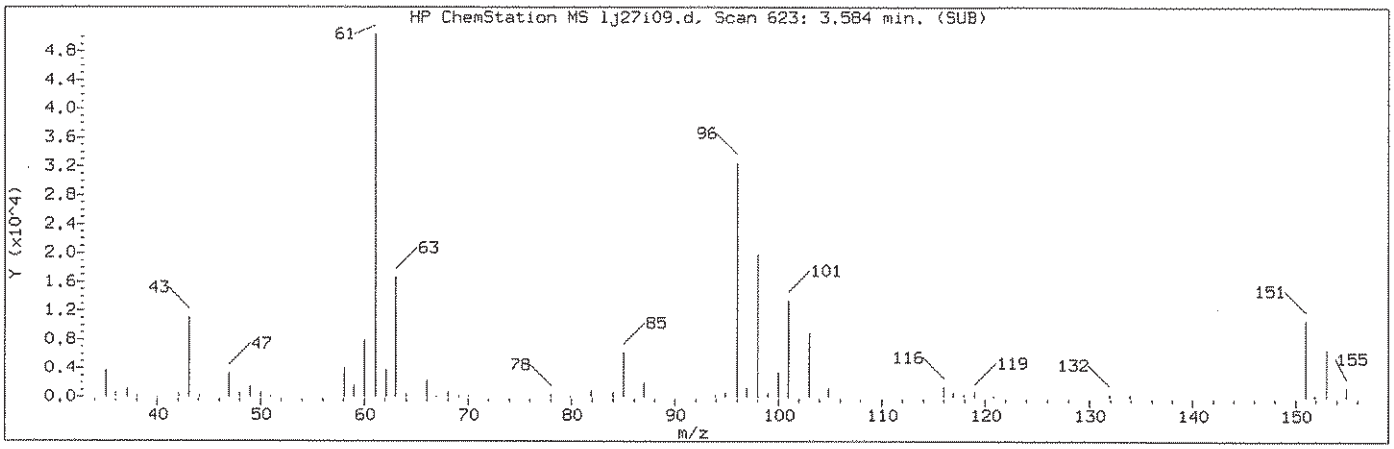
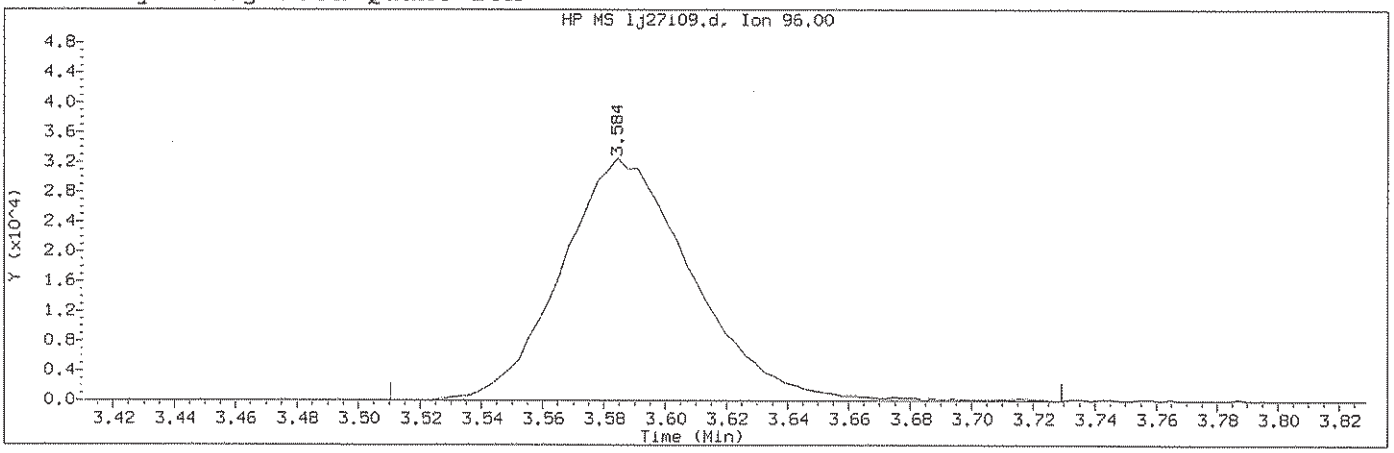
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

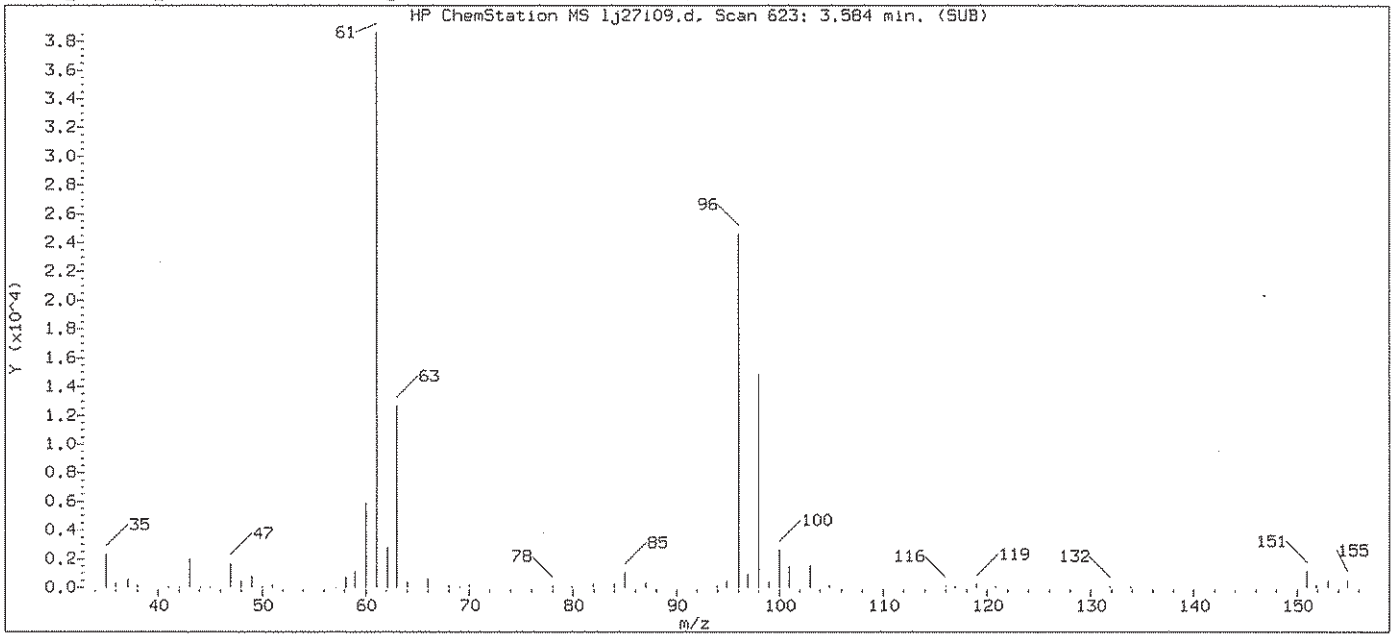
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 623		
Retention Time (minutes)	: 3.584		
Quant Ion	: 96.00		
Area (flag)	: 97006M		
On-Column Amount (ng)	: 20.3962		
Integration start scan	: 599	Integration stop scan:	667
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

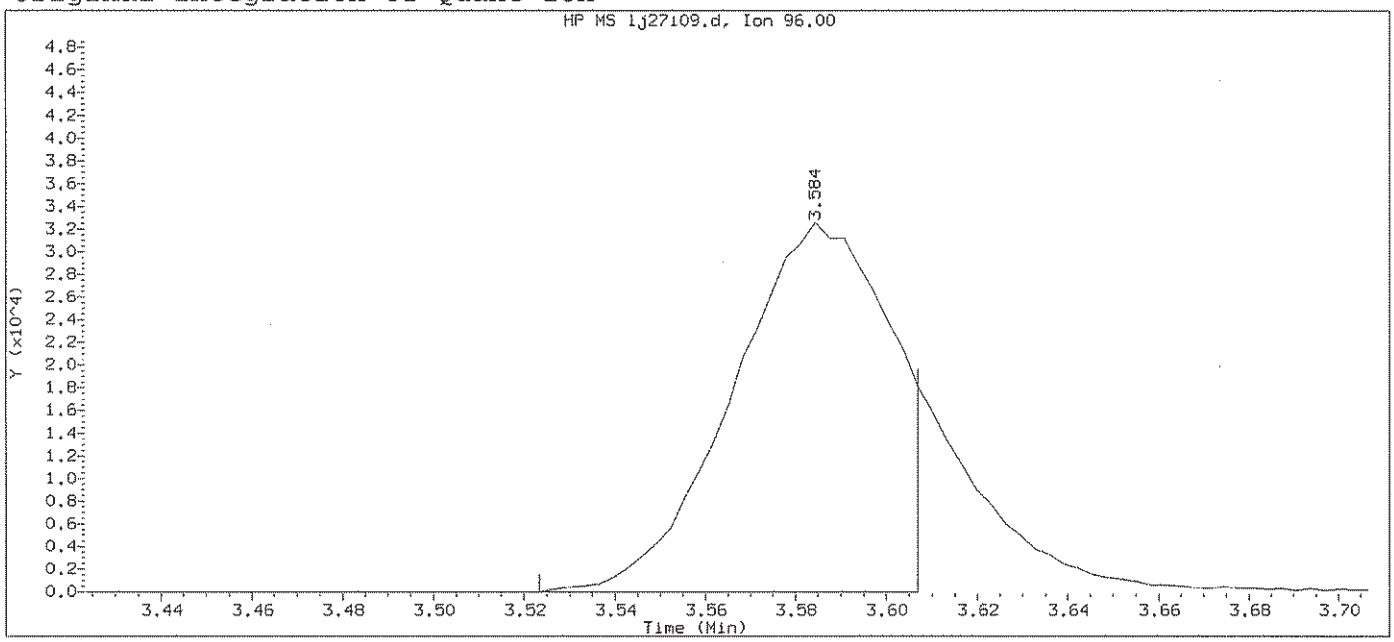
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

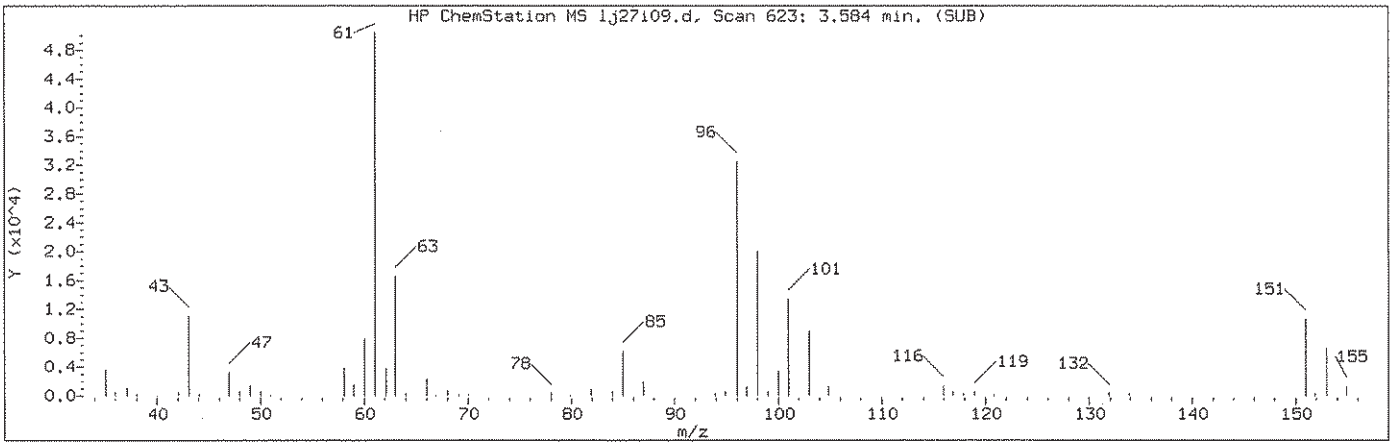
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD020 Lab Sample ID: VSTD020

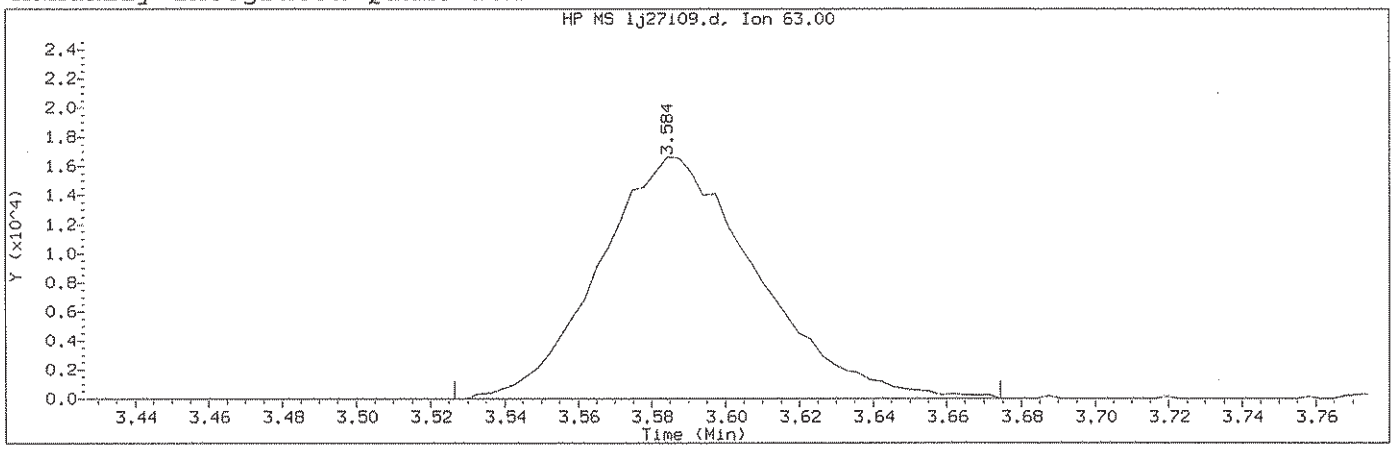
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 623		
Retention Time (minutes)	: 3.584		
Quant Ion	: 96.00		
Area	: 77609		
On-column Amount (ng)	: 17.0174		
Integration start scan	: 603	Integration stop scan:	629
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

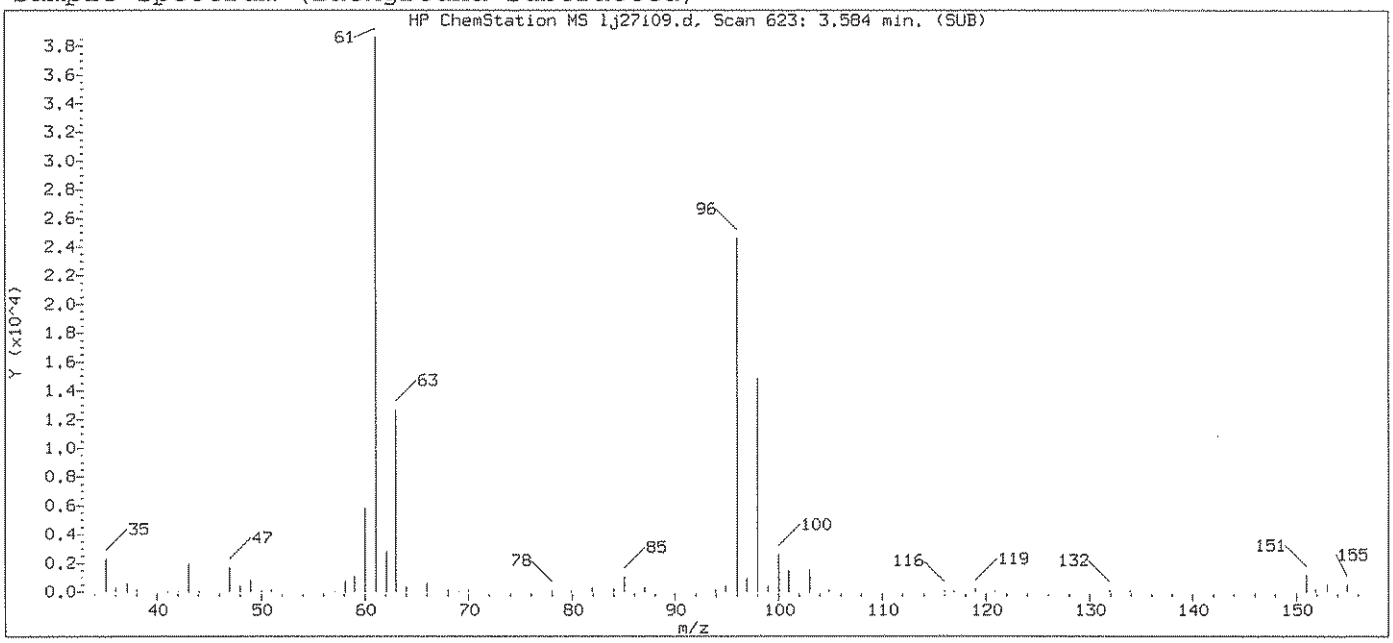
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 623		
Retention Time (minutes)	: 3.584		
Quant Ion	: 63.00		
Area (flag)	: 49412M		
On-Column Amount (ng)	: 20.4542		
Integration start scan	: 604	Integration stop scan:	650
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

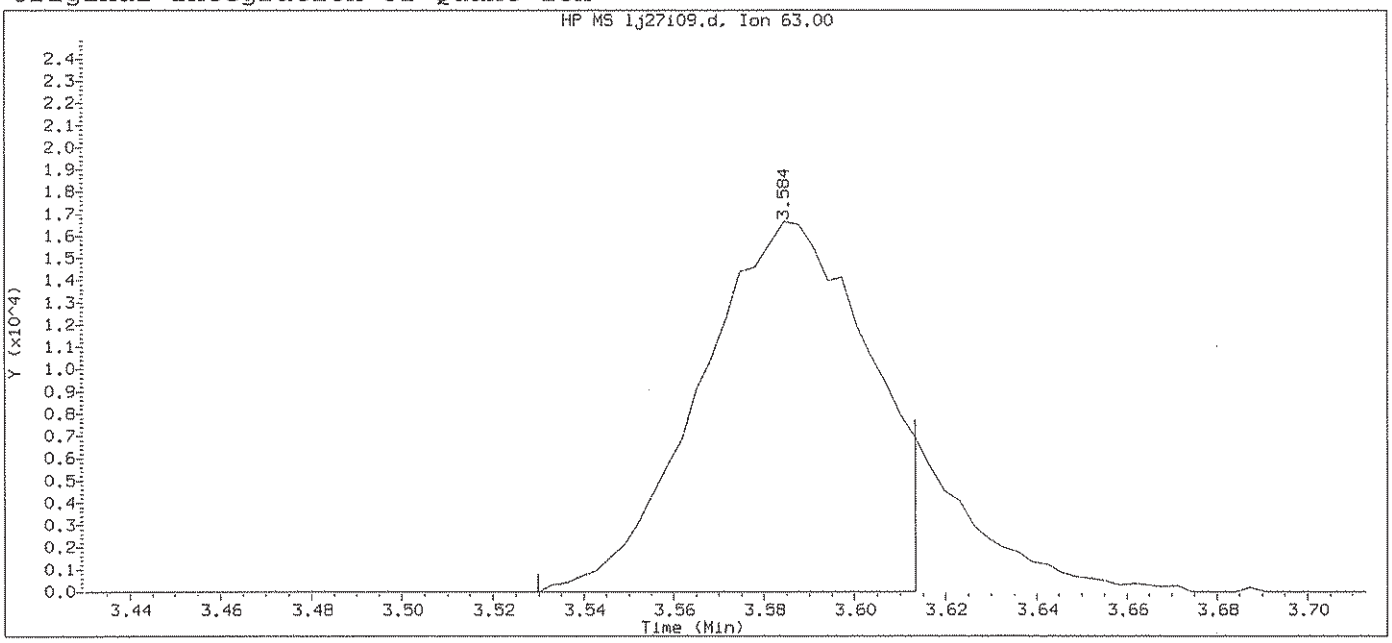
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

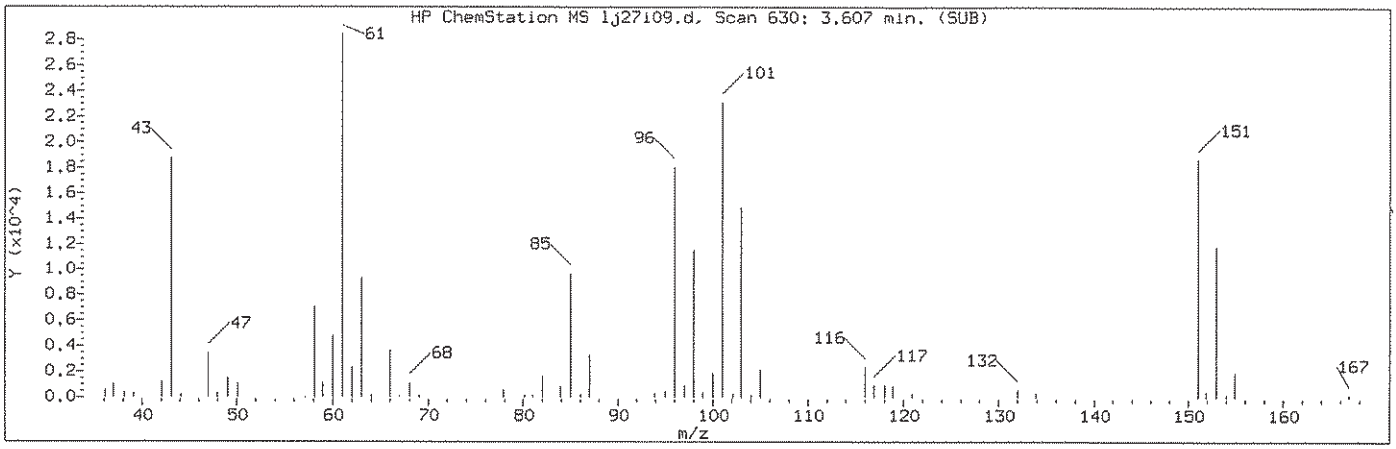
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD020 Lab Sample ID: VSTD020

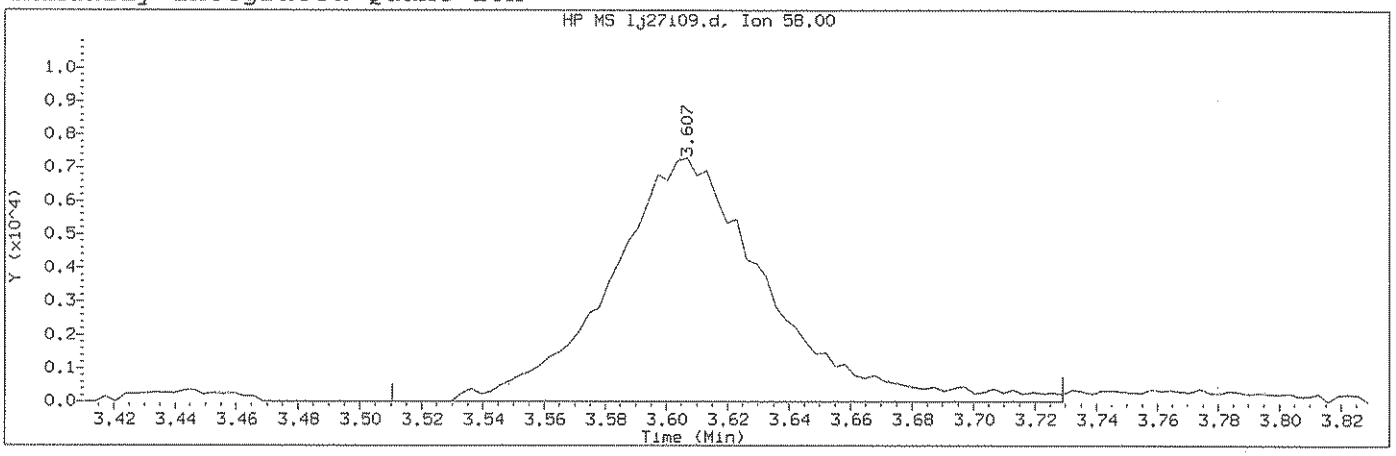
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 623		
Retention Time (minutes)	: 3.584		
Quant Ion	: 63.00		
Area	: 42957		
On-column Amount (ng)	: 18.8078		
Integration start scan	: 605	Integration stop scan:	631
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

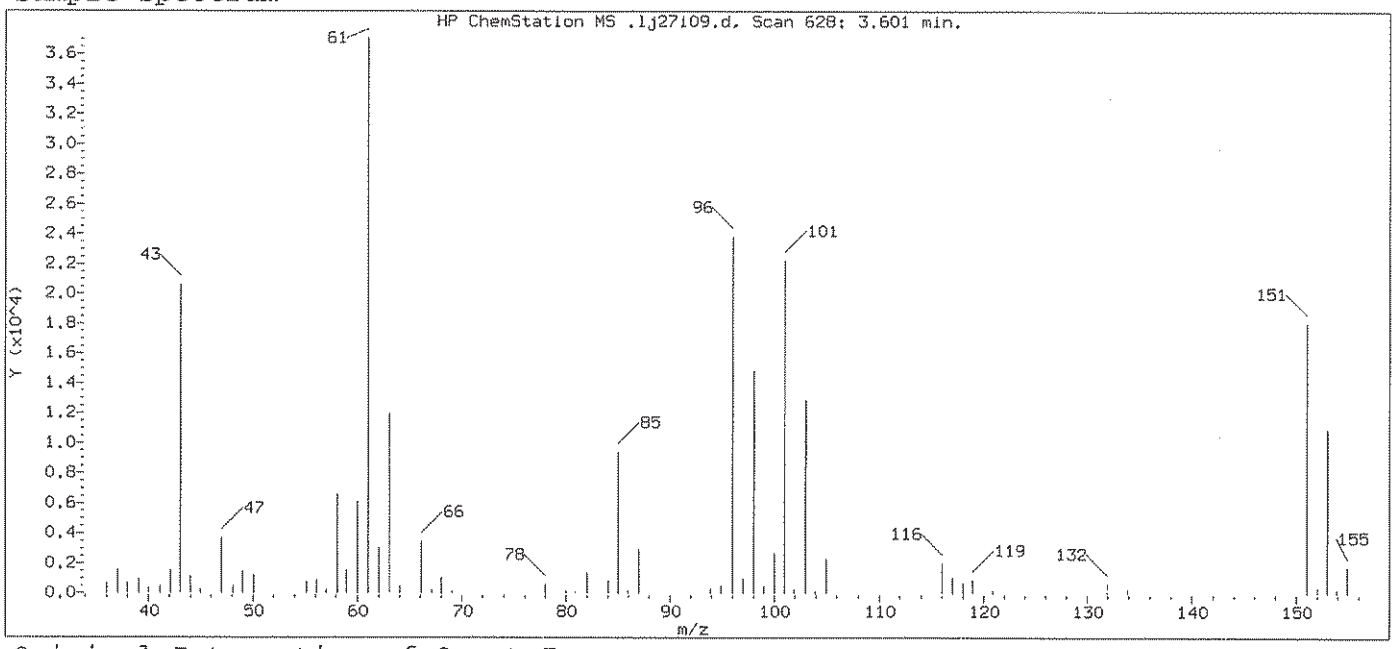
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 630		
Retention Time (minutes)	: 3.607		
Quant Ion	: 58.00		
Area (flag)	: 26044M		
On-Column Amount (ng)	: 39.5571		
Integration start scan	: 599	Integration stop scan:	667
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

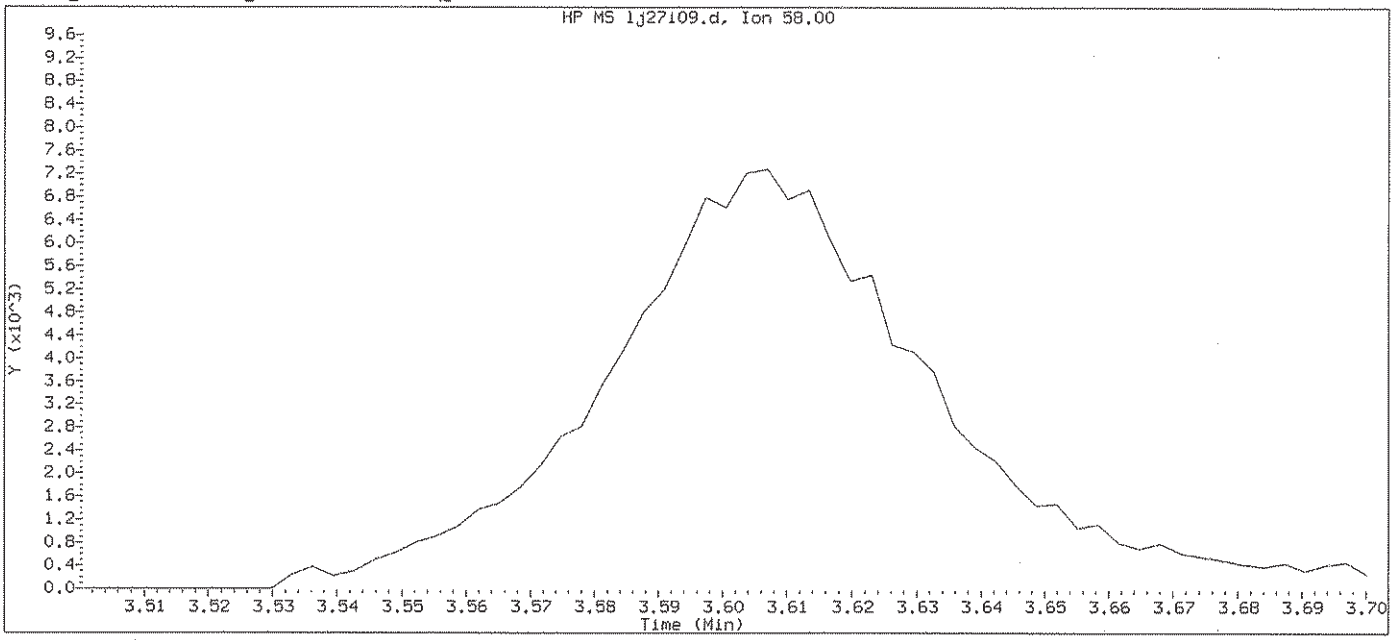
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

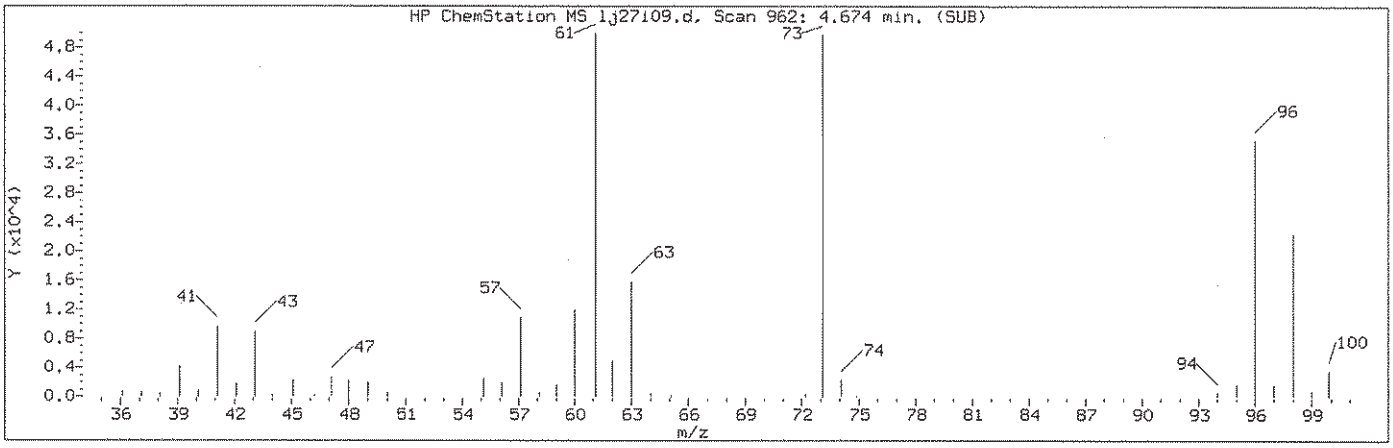
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD020 Lab Sample ID: VSTD020

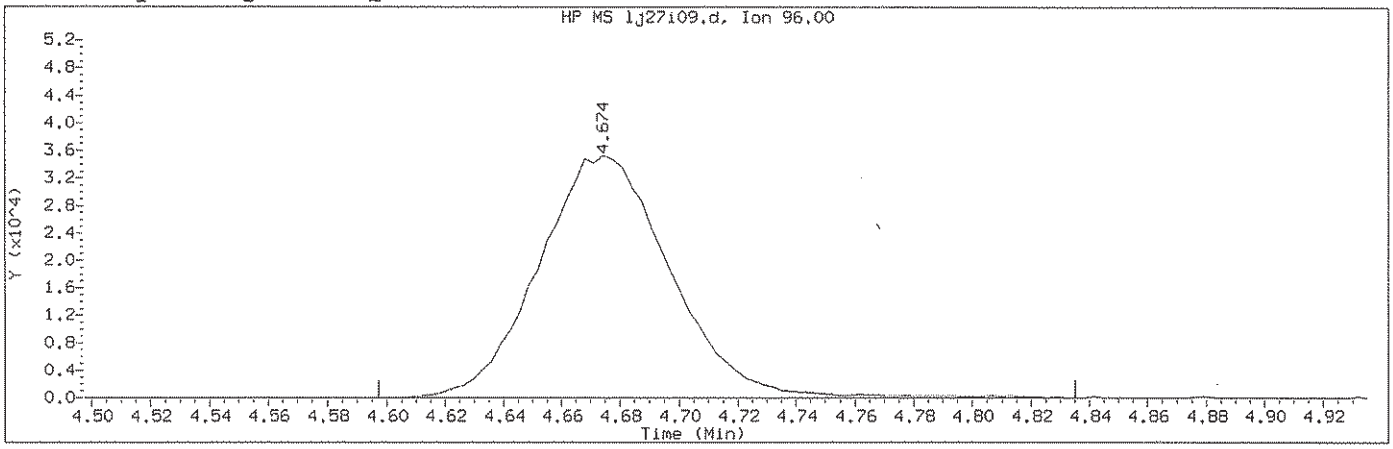
Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

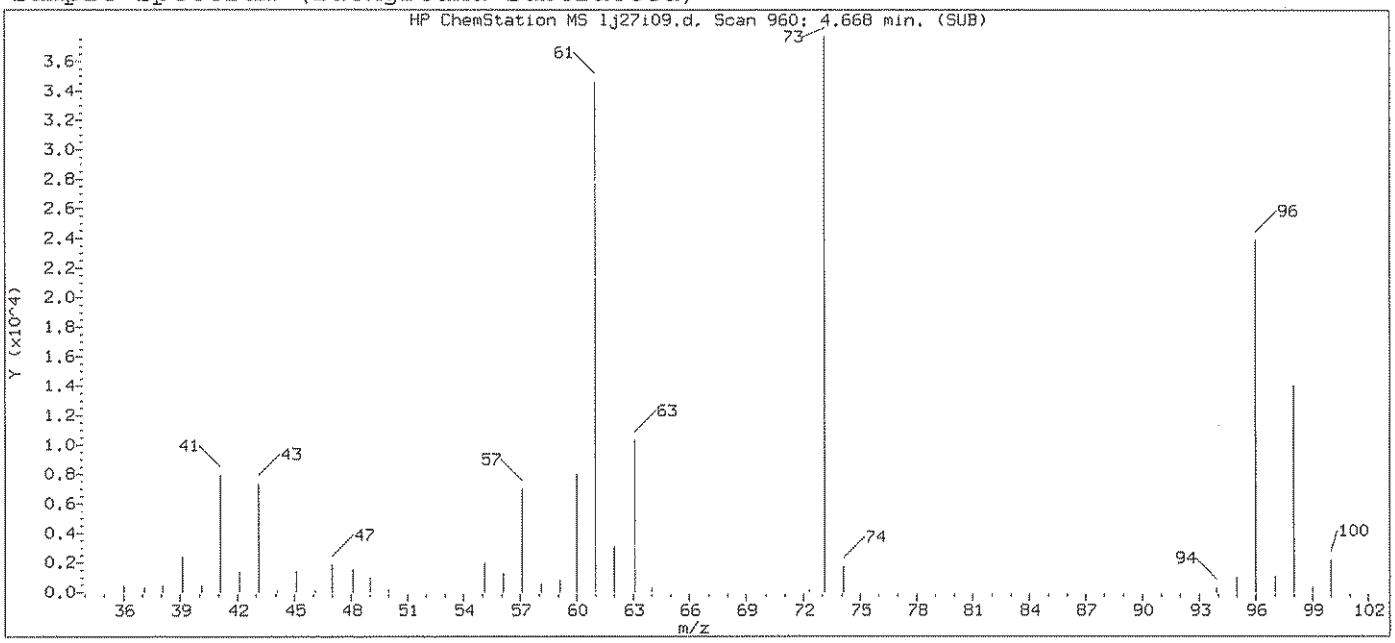
Compound Number	: 32		
Compound Name	: trans-1,2-Dichloroethene		
Scan Number	: 962		
Retention Time (minutes)	: 4.674		
Quant Ion	: 96.00		
Area (flag)	: 110066M		
On-Column Amount (ng)	: 20.3613		
Integration start scan	: 937	Integration stop scan:	1011
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

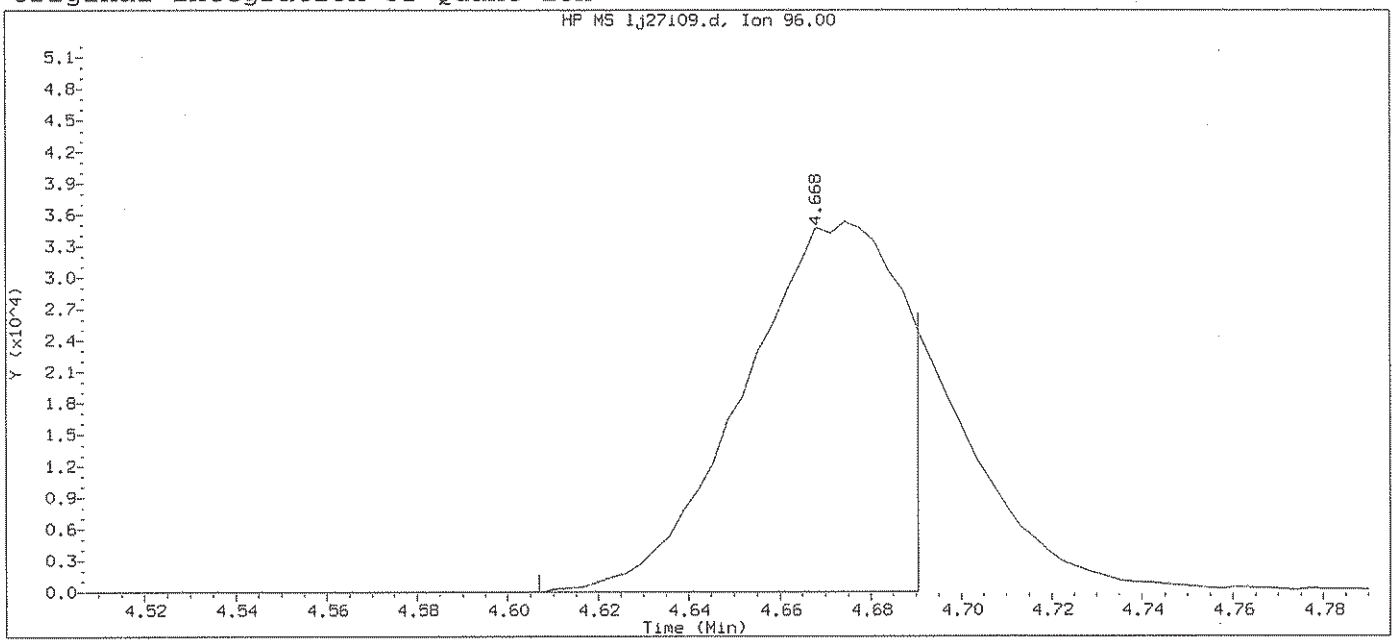
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

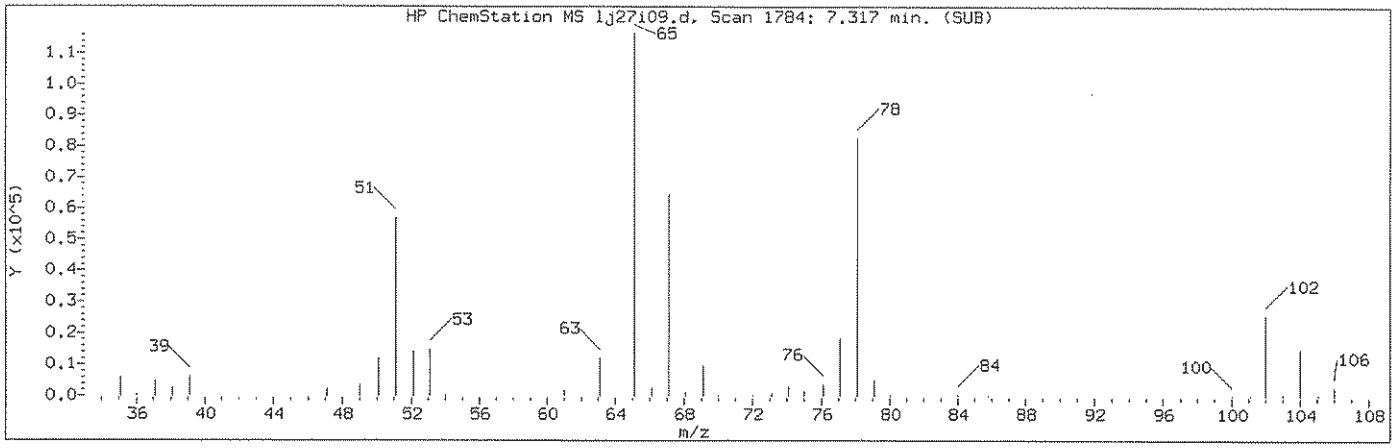
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD020 Lab Sample ID: VSTD020

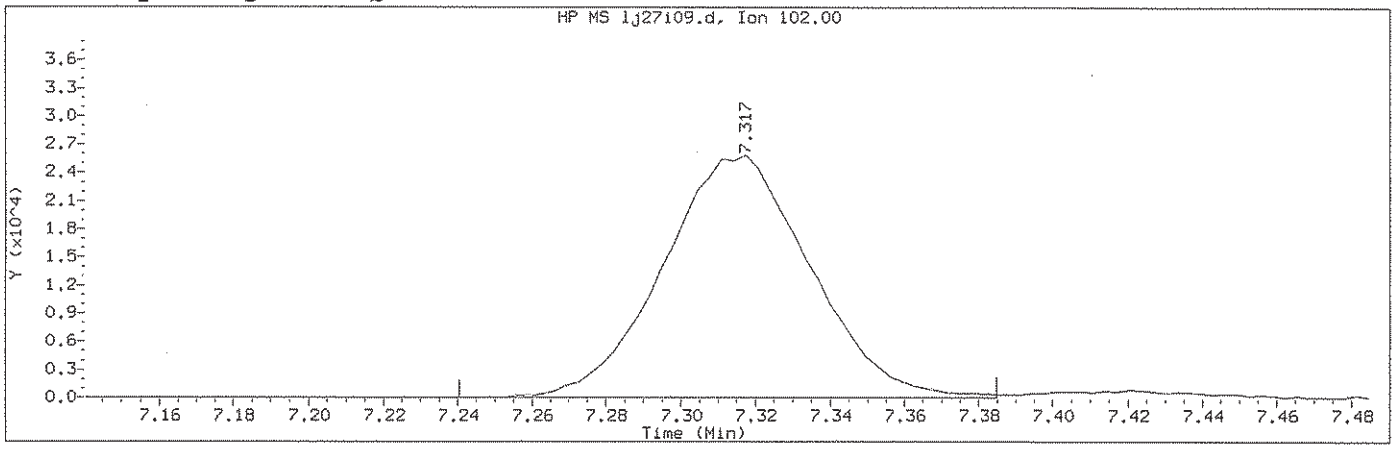
Compound Number : 32
Compound Name : trans-1,2-Dichloroethene
Scan Number : 960
Retention Time (minutes): 4.668
Quant Ion : 96.00
Area : 83980
On-column Amount (ng) : 17.4775
Integration start scan : 940 Integration stop scan: 966
Y at integration start : 0 Y at integration end: 0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

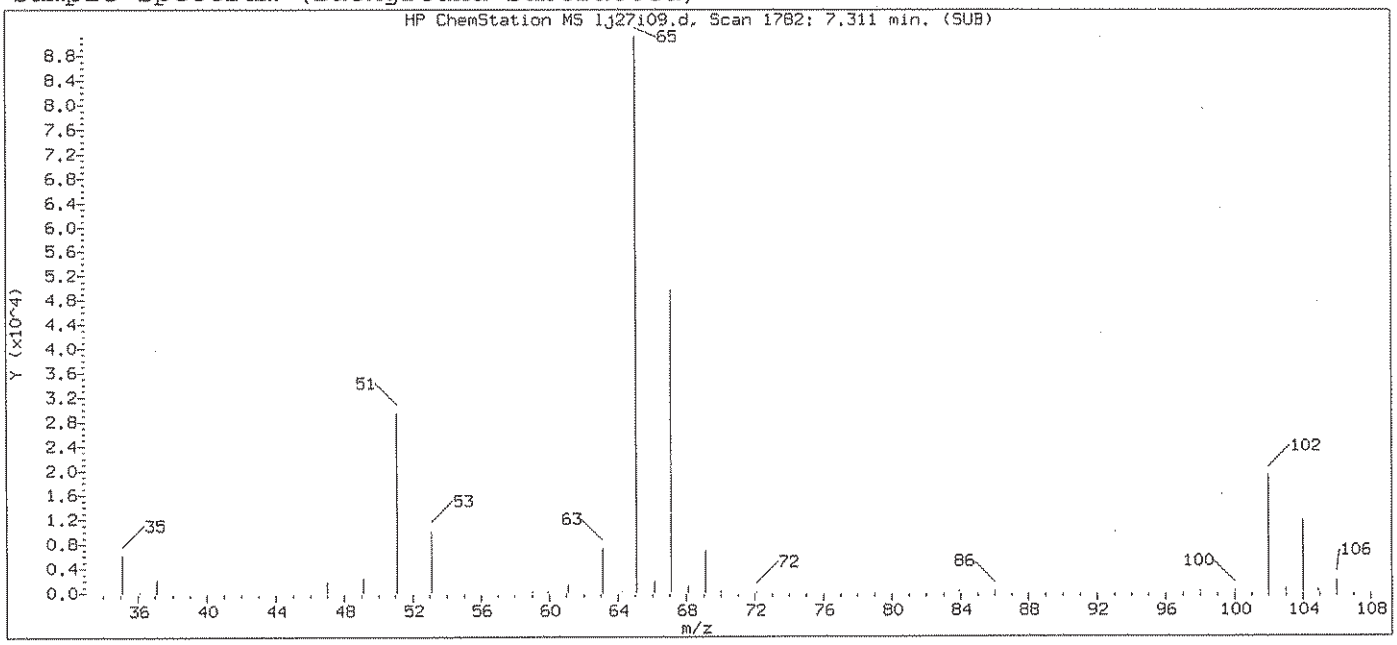
Compound Number	: 57		
Compound Name	: 1,2-Dichloroethane-d4		
Scan Number	: 1784		
Retention Time (minutes)	: 7.317		
Quant Ion	: 102.00		
Area (flag)	: 70695M		
On-Column Amount (ng)	: 50.9152		
Integration start scan	: 1759	Integration stop scan:	1804
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

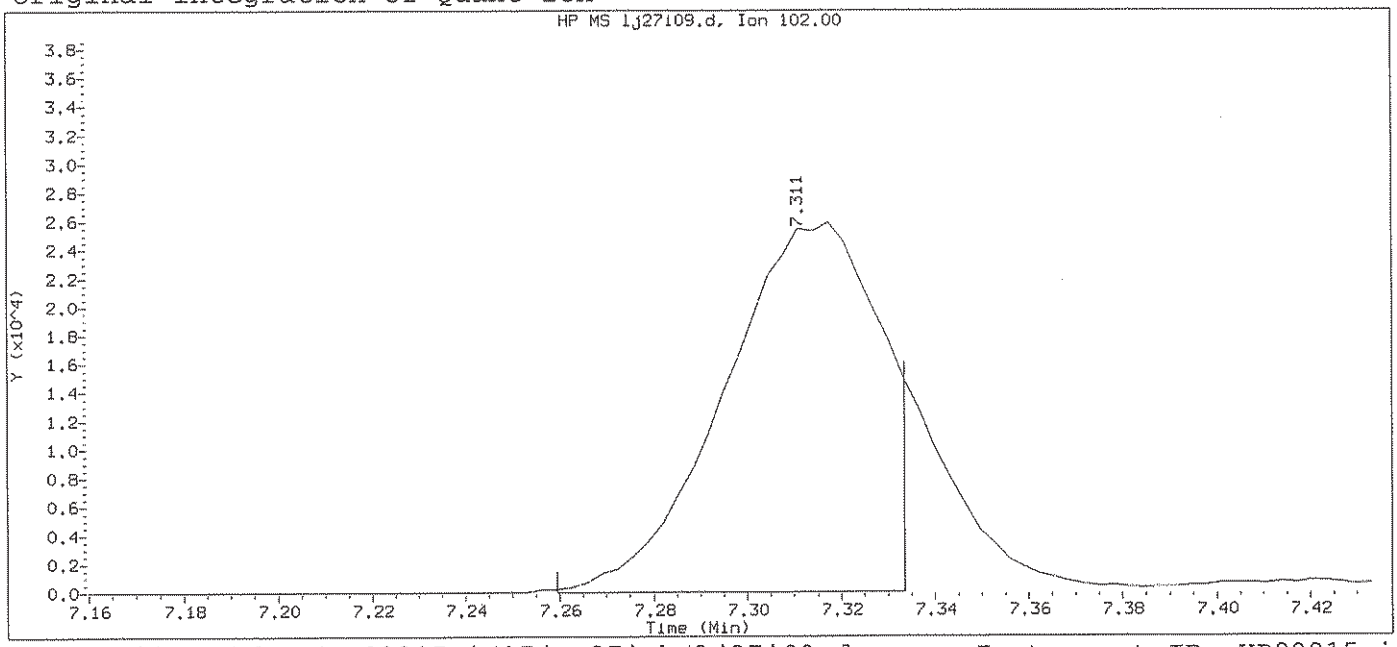
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

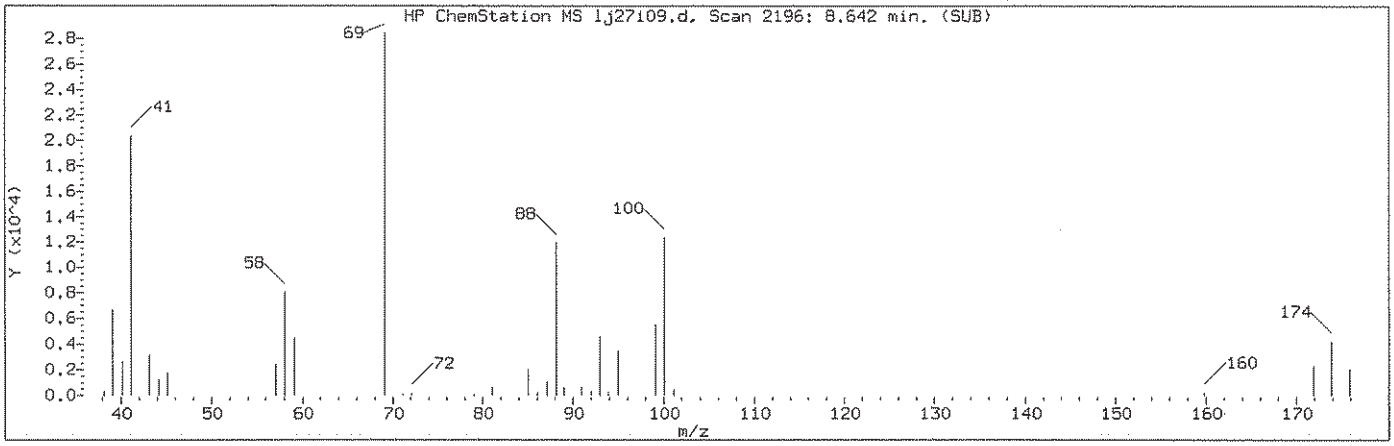
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD020 Lab Sample ID: VSTD020

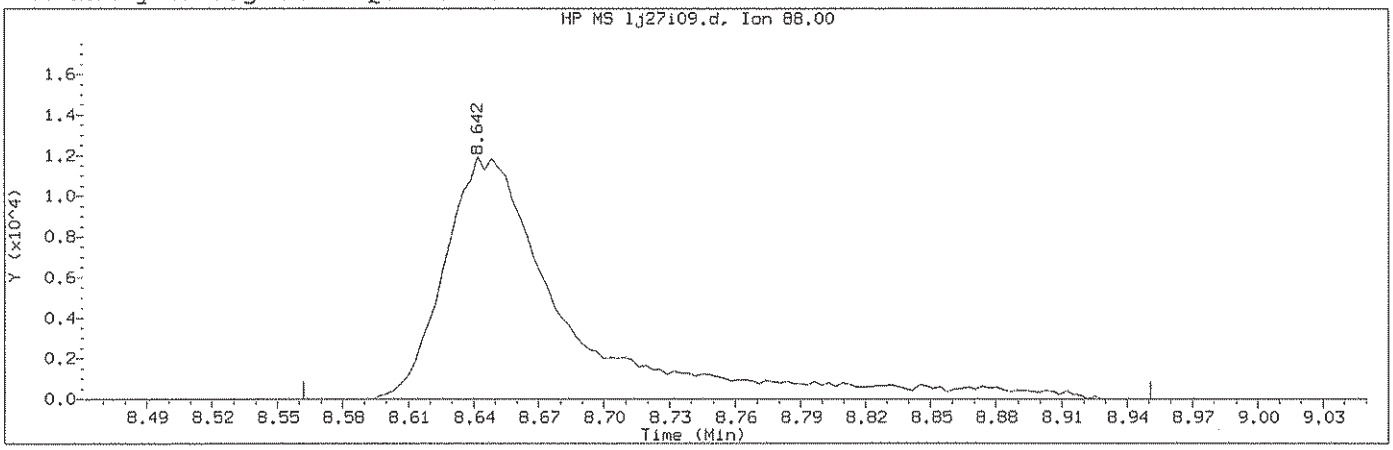
Compound Number	: 57		
Compound Name	: 1,2-Dichloroethane-d4		
Scan Number	: 1782		
Retention Time (minutes)	: 7.311		
Quant Ion	: 102.00		
Area	: 58822		
On-column Amount (ng)	: 43.4251		
Integration start scan	: 1765	Integration stop scan:	1788
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

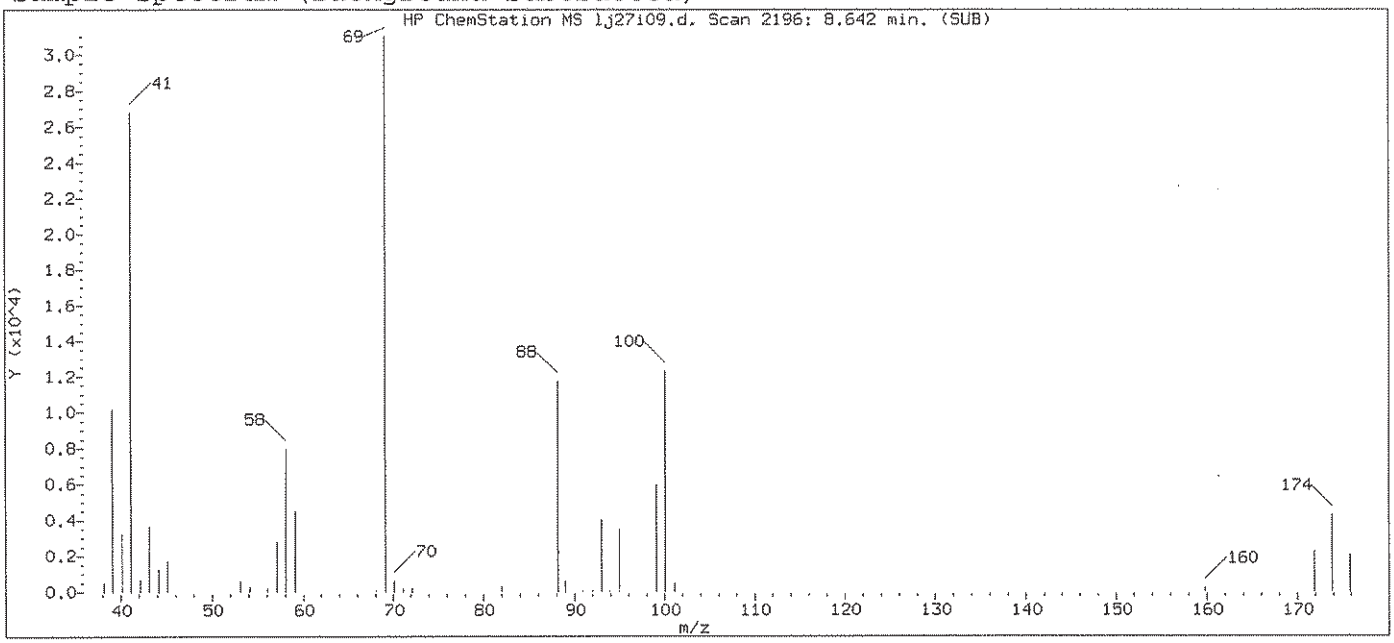
Compound Number : 75
Compound Name : 1,4-Dioxane
Scan Number : 2196
Retention Time (minutes): 8.642
Quant Ion : 88.00
Area (flag) : 47271M
On-Column Amount (ng) : 508.5017
Integration start scan : 2170 Integration stop scan: 2291
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

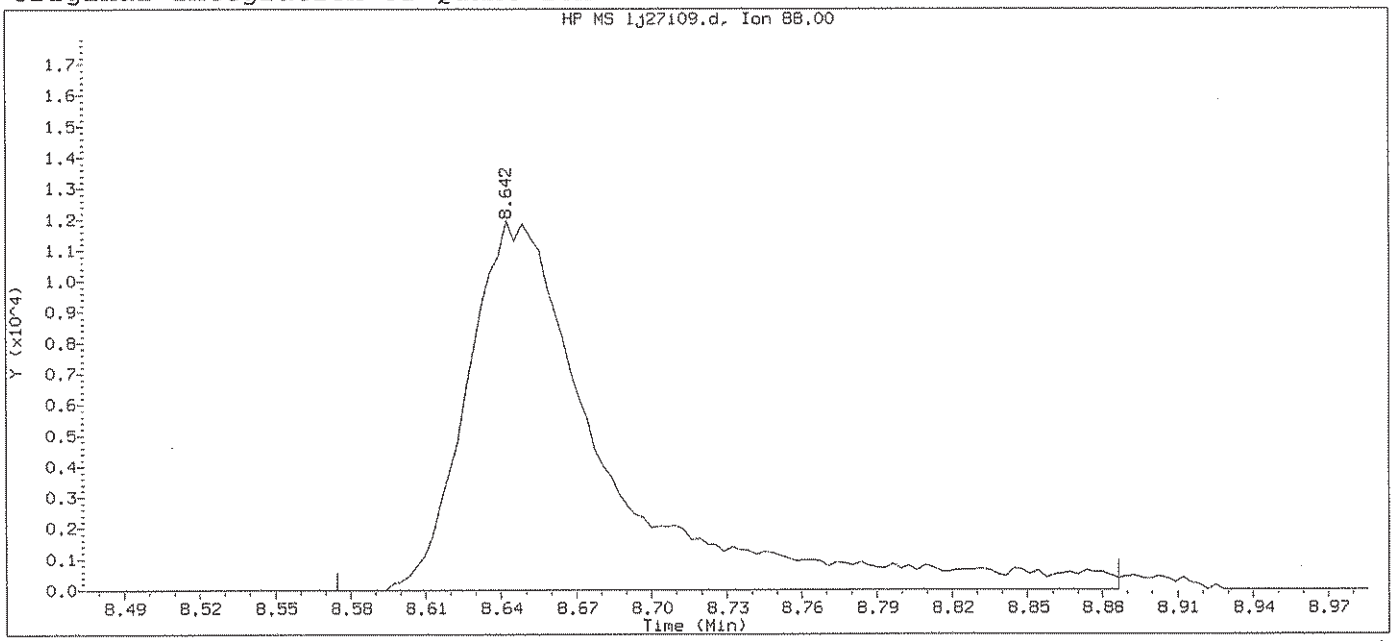
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

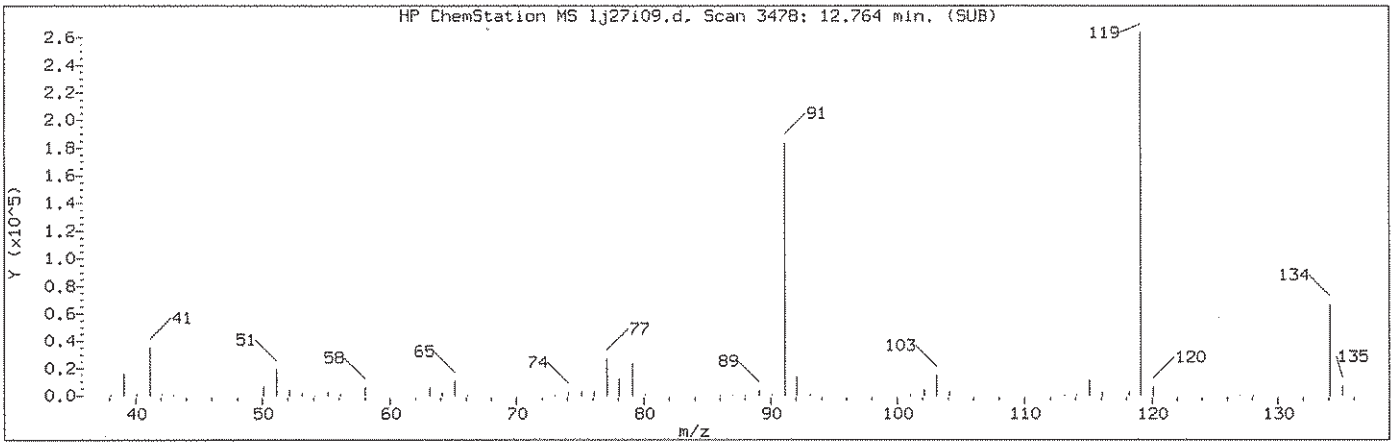
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD020 Lab Sample ID: VSTD020

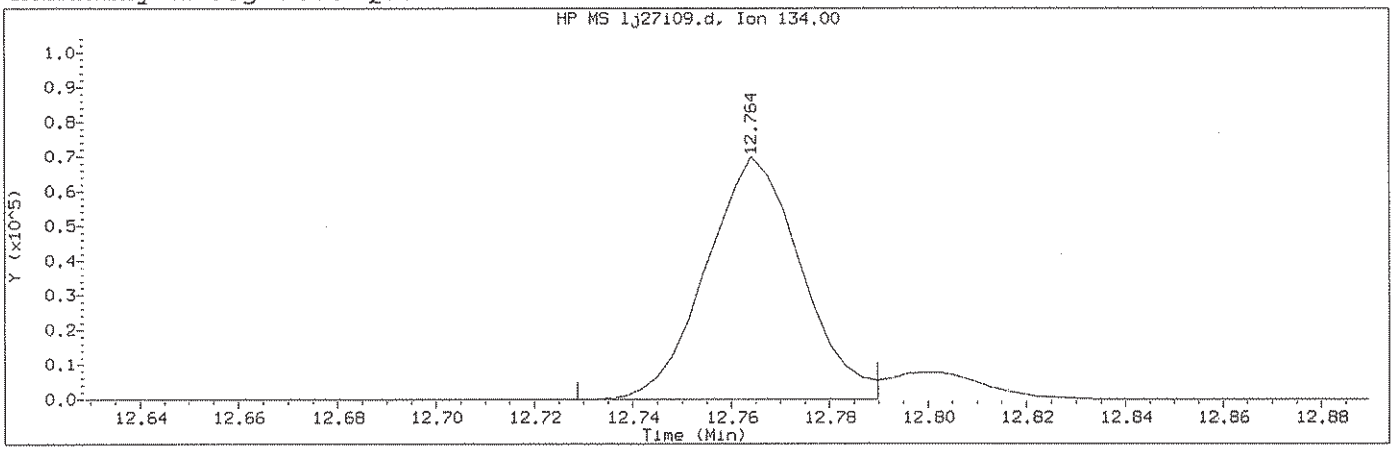
Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2196		
Retention Time (minutes)	: 8.642		
Quant Ion	: 88.00		
Area	: 46536		
On-column Amount (ng)	: 507.9619		
Integration start scan	: 2174	Integration stop scan:	2271
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD020 Lab Sample ID: VSTD020

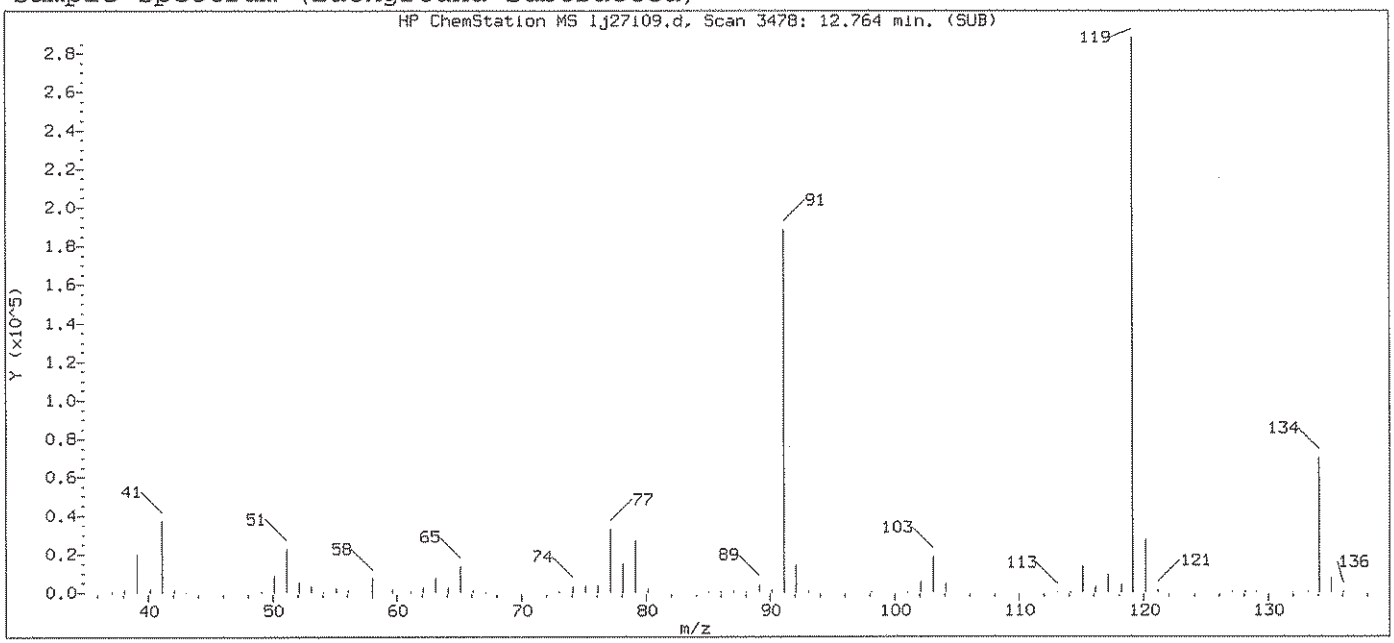
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3478		
Retention Time (minutes)	: 12.764		
Quant Ion	: 134.00		
Area (flag)	: 93870M		
On-Column Amount (ng)	: 18.7455		
Integration start scan	: 3466	Integration stop scan:	3485
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

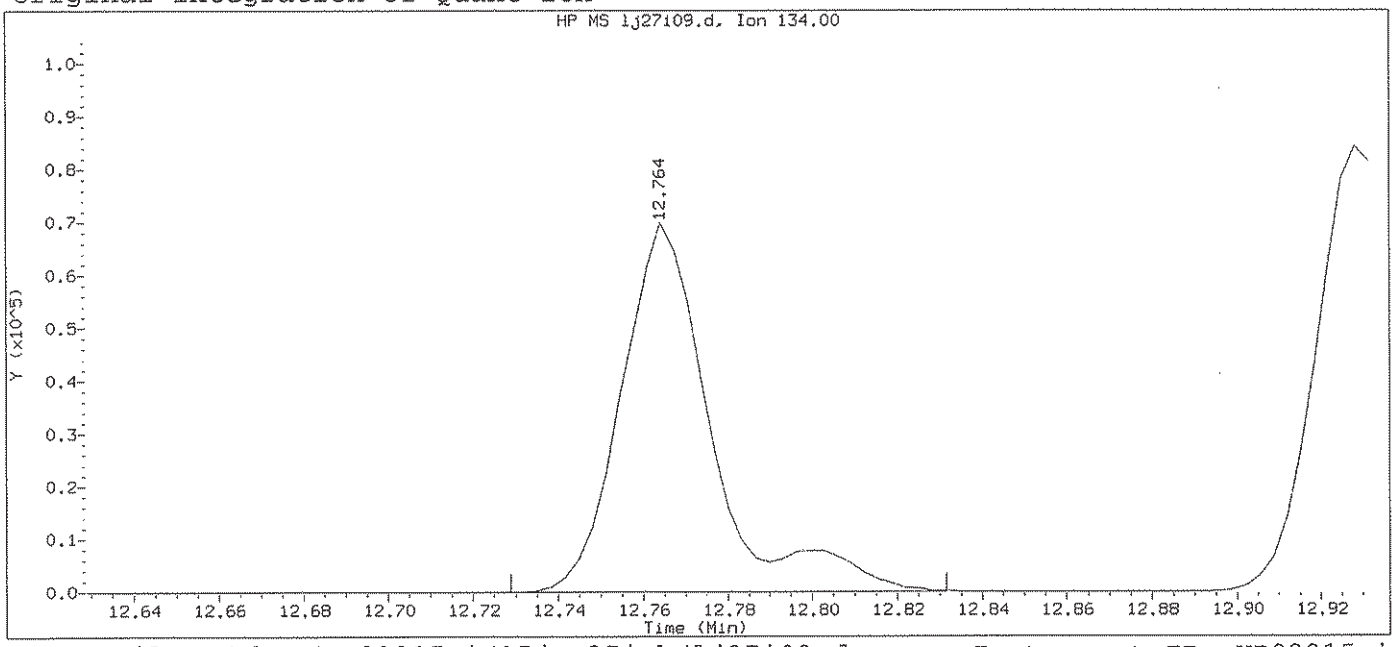
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 124
Compound Name : tert-Butylbenzene
Scan Number : 3478
Retention Time (minutes): 12.764
Quant Ion : 134.00
Area : 103748
On-column Amount (ng) : 19.1928
Integration start scan : 3466 Integration stop scan: 3498
Y at integration start : 0 Y at integration end: 0

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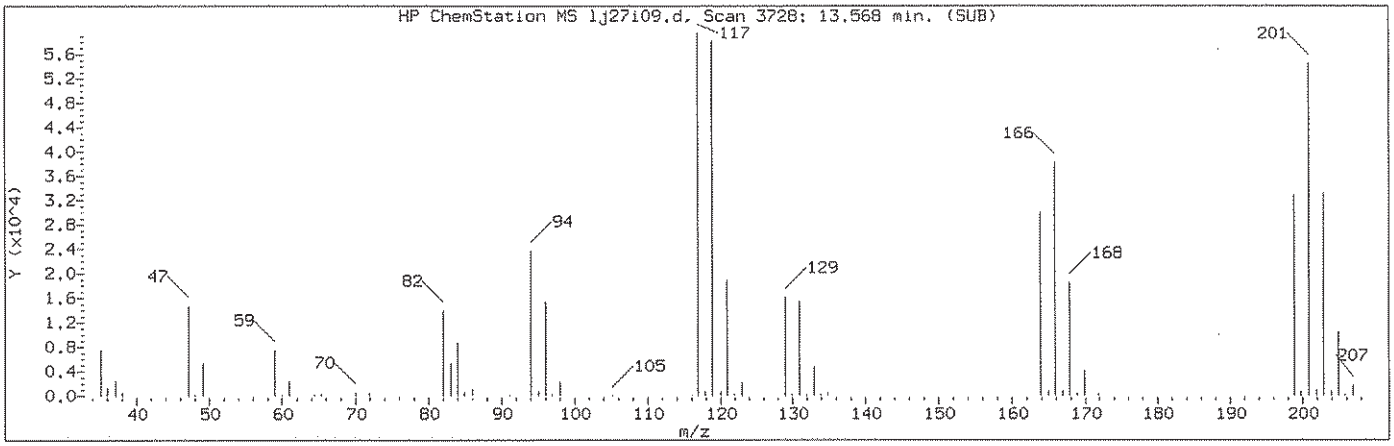
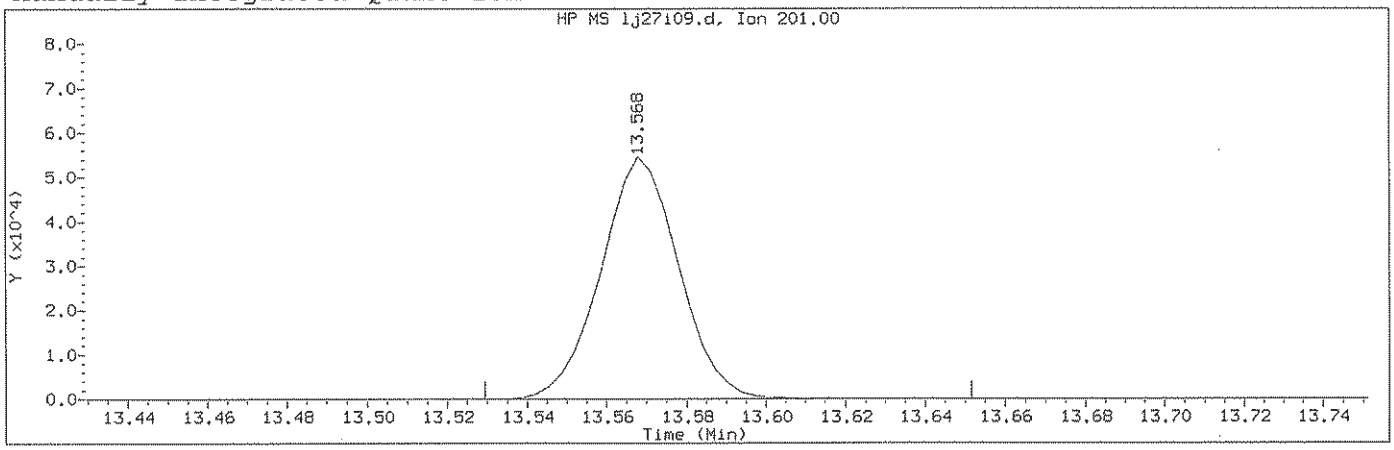
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i09.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:54 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

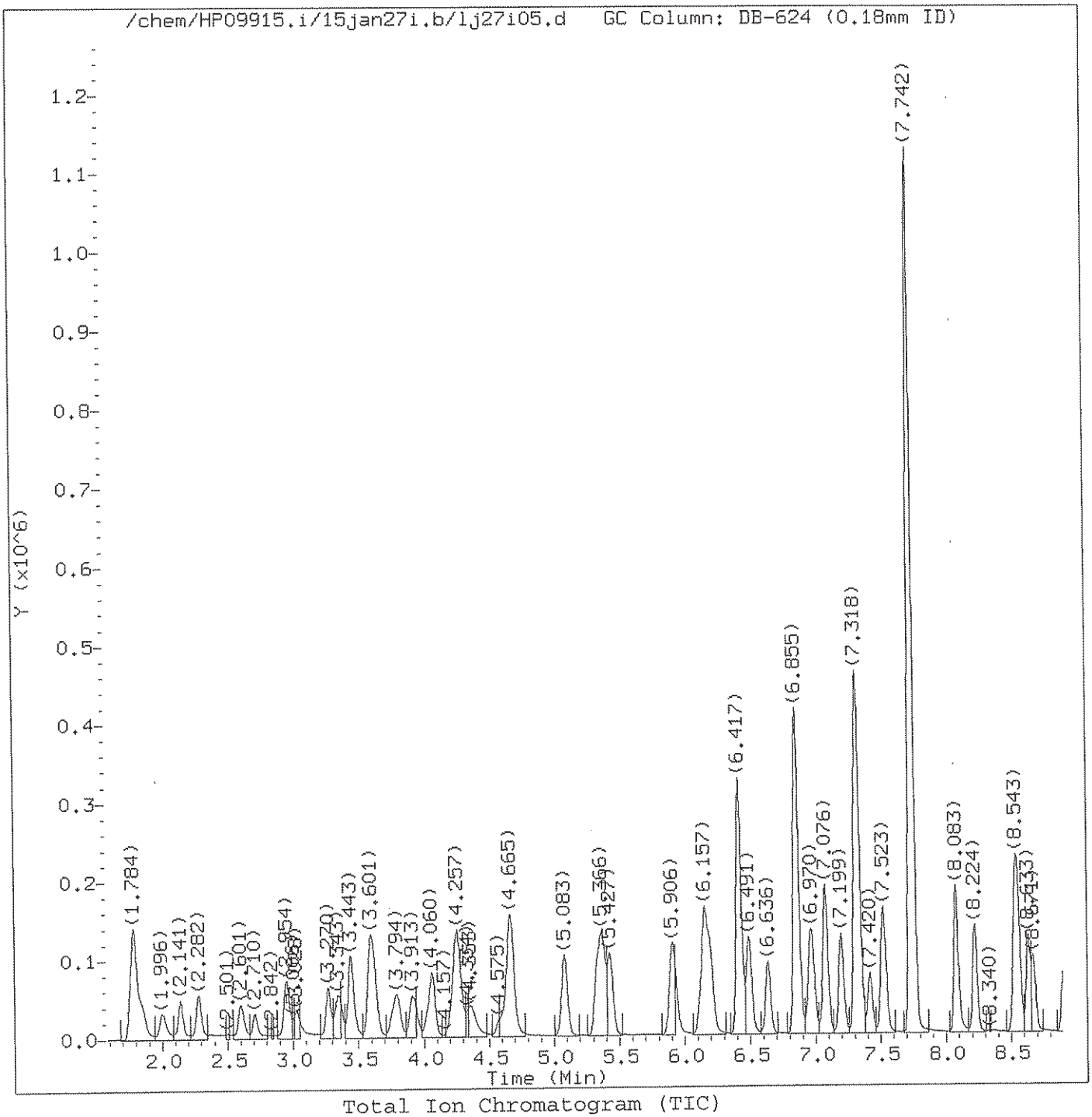
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 145		
Compound Name	: Hexachloroethane		
Scan Number	: 3728		
Retention Time (minutes)	: 13.568		
Quant Ion	: 201.00		
Area (flag)	: 73860M		
On-Column Amount (ng)	: 21.4070		
Integration start scan	: 3715	Integration stop scan:	3753
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: compound not in processing sublist

Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d
Injection date and time: 27-JAN-2015 16:32

Instrument ID: HP09915.i
Analyst ID: KEL01973

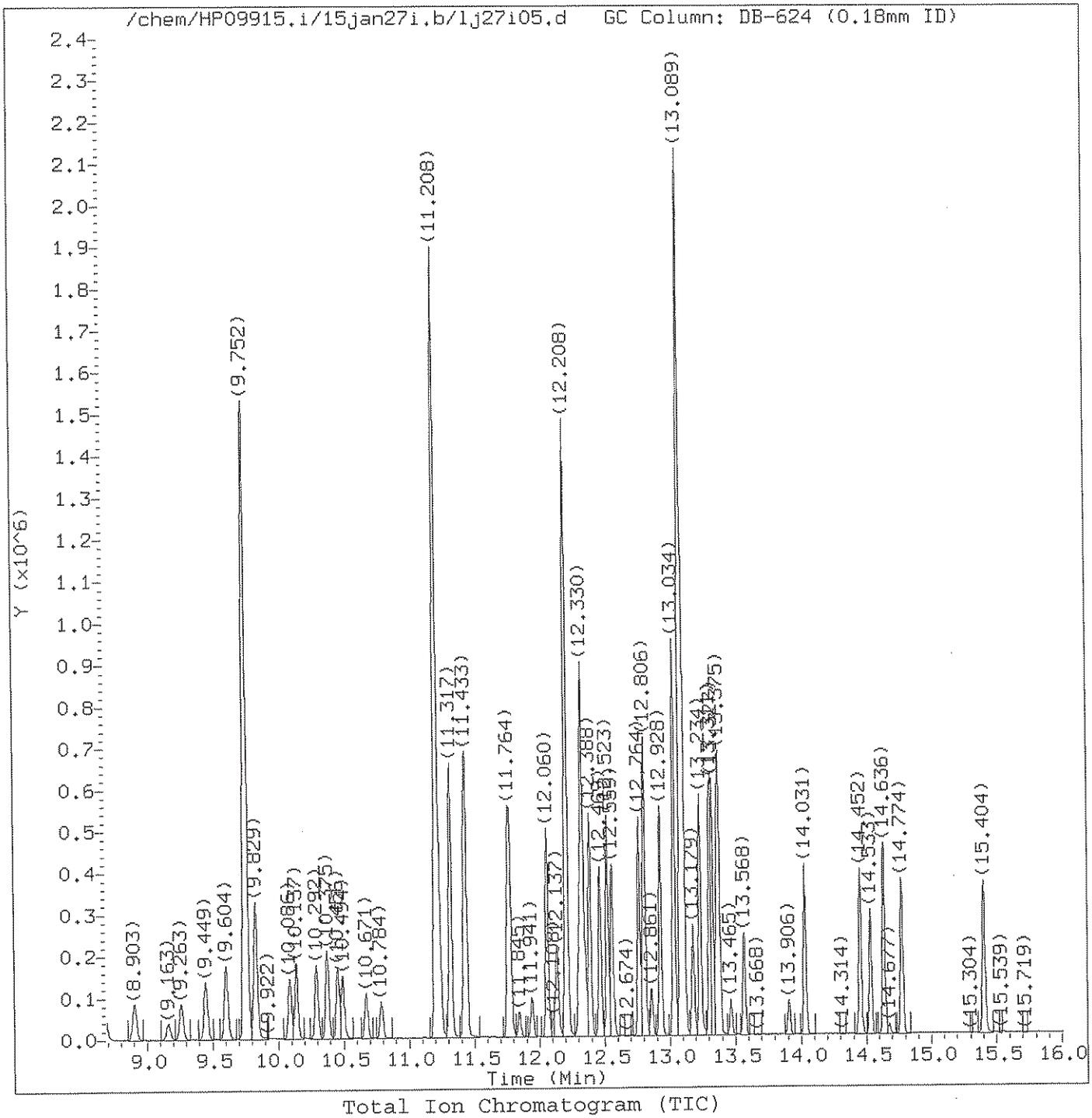
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sublist used: 8260W-BN

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d
Injection date and time: 27-JAN-2015 16:32

Instrument ID: HP09915.i
Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sublist used: 8260W-BN

Sample Name: VSTD010

Lab Sample ID: VSTD010

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	2.003	85	65798	9.589
4) Chloromethane	(2)	2.141	50	65170	8.956
6) Vinyl Chloride	(2)	2.282	62	61205	9.074
8) Bromomethane	(2)	2.601	94	38687	9.613
9) Chloroethane	(2)	2.710	64	34422	9.443
43) 1,2-Dichloroethene (Total)	(2)		96	120865	20.685
10) Dichlorofluoromethane	(2)	2.951	67	90584	9.765
12) Trichlorofluoromethane	(2)	3.028	101	68420	9.366
14) Ethyl ether	(2)	3.270	59	48877	9.060
15) Freon 123a	(2)	3.353	67	63608M	9.689
16) Acrolein	(1)	3.443	56	155613	93.916
17) 1,1-Dichloroethene	(2)	3.594	96	50194	10.258
17) 1,1-Dichloroethene	(2)	3.588	63	26138	10.516
18) Acetone	(1)	3.604	58	12847M	19.242
19) Freon 113	(2)	3.620	101	52325	10.561
21) 2-Propanol	(1)	3.758	45	61945	109.021
22) Methyl Iodide	(2)	3.797	142	91382	10.334
23) Carbon Disulfide	(2)	3.913	76	164478	10.080
27) Methyl Acetate	(2)	4.025	43	57569	10.219
25) Allyl Chloride	(2)	4.067	41	82434	9.806
29)*t-Butyl alcohol-d10	(1)	4.234	65	219618	250.000
28) Methylene Chloride	(2)	4.257	84	65540	10.535
30) t-Butyl alcohol	(1)	4.363	59	97169	104.014
31) Acrylonitrile	(2)	4.575	53	27095	9.426
33) Methyl Tertiary Butyl Ether	(2)	4.655	73	187288	10.395
32) trans-1,2-Dichloroethene	(2)	4.678	96	57178M	10.281
34) n-Hexane	(2)	5.083	57	88278	10.515
36) 1,1-Dichloroethane	(2)	5.331	63	106753	10.411
38) di-Isopropyl ether	(2)	5.366	45	200428	10.363
39) 2-Chloro-1,3-butadiene	(2)	5.430	53	88919	10.210
90) 1,3-Dichloropropene (total)	(3)		100	180935	20.448
40) Ethyl t-butyl ether	(2)	5.909	59	192582	10.329
44) 2-Butanone	(2)	6.118	43	65566	18.268
42) cis-1,2-Dichloroethene	(2)	6.150	96	63687	10.404
45) 2,2-Dichloropropane	(2)	6.173	77	77733	10.018
47) Propionitrile	(1)	6.199	54	125853	106.350
48) Methacrylonitrile	(2)	6.417	67	169191	52.409
49) Bromochloromethane	(2)	6.488	128	30677	10.242

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Tetrahydrofuran	(1)	6.501	71	17547	18.396
51) Chloroform	(2)	6.636	83	99985	10.278
52)$Dibromofluoromethane	(2)	6.851	113	285697	49.509
52)$Dibromofluoromethane	(2)	6.855	111	289445	49.138
53) 1,1,1-Trichloroethane	(2)	6.861	97	93128	10.091
54) Cyclohexane	(2)	6.974	56	108254	10.417
54) Cyclohexane	(2)	6.970	84	88193	10.493
54) Cyclohexane	(2)	6.974	69	32606	10.373
55) 1,1-Dichloropropene	(2)	7.076	75	78182	10.184
56) Carbon Tetrachloride	(2)	7.076	117	69257	10.067
58) Isobutyl Alcohol	(1)	7.199	41	83345	266.242
57)$1,2-Dichloroethane-d4	(2)	7.318	102	71174	49.822
57)$1,2-Dichloroethane-d4	(2)	7.314	65	334037	49.780
57)$1,2-Dichloroethane-d4	(2)	7.308	104	37201	45.826
60) Benzene	(2)	7.337	78	249088	10.451
61) 1,2-Dichloroethane	(2)	7.417	62	76978	10.244
61) 1,2-Dichloroethane	(2)	7.427	98	7648	10.590
65) t-Amyl methyl ether	(2)	7.523	73	186989	10.395
66)*Fluorobenzene	(2)	7.742	96	1207726	50.000
67) n-Heptane	(2)	7.748	43	92449	10.415
108) Xylene (Total)	(3)		106	352501	32.004
69) n-Butanol	(1)	8.080	56	142184	515.583
71) Trichloroethene	(2)	8.227	95	61844	10.184
72) Methylcyclohexane	(2)	8.533	83	105010	9.964
72) Methylcyclohexane	(2)	8.536	98	46798	9.875
73) 1,2-Dichloropropane	(2)	8.565	63	65342	10.320
76) Methyl Methacrylate	(2)	8.629	69	55710	10.536
75) 1,4-Dioxane	(1)	8.646	88	25103M	266.294
74) Dibromomethane	(2)	8.674	93	40475	10.277
78) Bromodichloromethane	(2)	8.903	83	73506	10.078
79) 2-Nitropropane	(2)	9.163	41	28873	17.664
80) 2-Chloroethyl Vinyl Ether	(2)	9.260	63	46253	10.070
81) cis-1,3-Dichloropropene	(2)	9.449	75	95323	10.293
82) 4-Methyl-2-pentanone	(2)	9.604	43	136897	17.458
83)$Toluene-d8	(3)	9.752	98	1185972	49.297
83)$Toluene-d8	(3)	9.752	100	776525	49.096
141) Diethylbenzene (total)	(4)		100	481663	29.705
88) Toluene	(3)	9.829	92	155628	10.369

M = Compound was manually integrated.
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$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
89) trans-1,3-Dichloropropene	(3)	10.086	75	85612	10.155
91) Ethyl Methacrylate	(3)	10.137	69	100550	10.447
92) 1,1,2-Trichloroethane	(3)	10.292	97	59499	10.477
93) Tetrachloroethene	(3)	10.379	166	65212	10.207
94) 1,3-Dichloropropane	(3)	10.456	76	103052	10.455
96) 2-Hexanone	(3)	10.494	43	99703	17.282
97) Dibromochloromethane	(3)	10.671	129	58002	10.135
99) 1,2-Dibromoethane	(3)	10.784	107	63336	10.397
100)*Chlorobenzene-d5	(3)	11.208	117	924005	50.000
101) 1-Chlorohexane	(3)	11.211	91	70349	8.577
102) Chlorobenzene	(3)	11.234	112	172966	10.500
104) Ethylbenzene	(3)	11.317	91	303566	10.557
103) 1,1,1,2-Tetrachloroethane	(3)	11.317	131	55589	10.328
106) m+p-Xylene	(3)	11.433	106	237067	21.365
107) o-Xylene	(3)	11.761	106	115434	10.639
109) Styrene	(3)	11.777	104	194080	10.681
110) Bromoform	(3)	11.941	173	41566	9.733
111) Isopropylbenzene	(3)	12.060	105	303890	10.467
112) Cyclohexanone	(1)	12.134	55	89085	254.982
114)$4-Bromofluorobenzene	(3)	12.208	95	471123	49.189
114)$4-Bromofluorobenzene	(3)	12.211	174	385983	49.343
116) 1,1,2,2-Tetrachloroethane	(4)	12.305	83	94887M	10.663
115) Bromobenzene	(4)	12.327	156	76735	10.625
118) trans-1,4-Dichloro-2-butene	(4)	12.330	53	115265	54.618
117) 1,2,3-Trichloropropane	(4)	12.353	110	27185	10.552
119) n-Propylbenzene	(4)	12.388	91	367330	10.568
120) 2-Chlorotoluene	(4)	12.469	126	70616	10.325
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	259934	10.451
121) 4-Chlorotoluene	(4)	12.559	126	74724	10.489
124) tert-Butylbenzene	(4)	12.764	134	51642	10.086
125) Pentachloroethane	(4)	12.800	167	41550	10.055
126) 1,2,4-Trimethylbenzene	(4)	12.809	105	266945	10.571
127) sec-Butylbenzene	(4)	12.928	105	334587	10.467
129) 1,3-Dichlorobenzene	(4)	13.031	146	148684	10.683
130) p-Isopropyltoluene	(4)	13.038	119	291912	10.604
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	491970	50.000
133) 1,4-Dichlorobenzene	(4)	13.108	146	154500	10.747
134) 1,2,3-Trimethylbenzene	(4)	13.112	105	269173	10.321

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

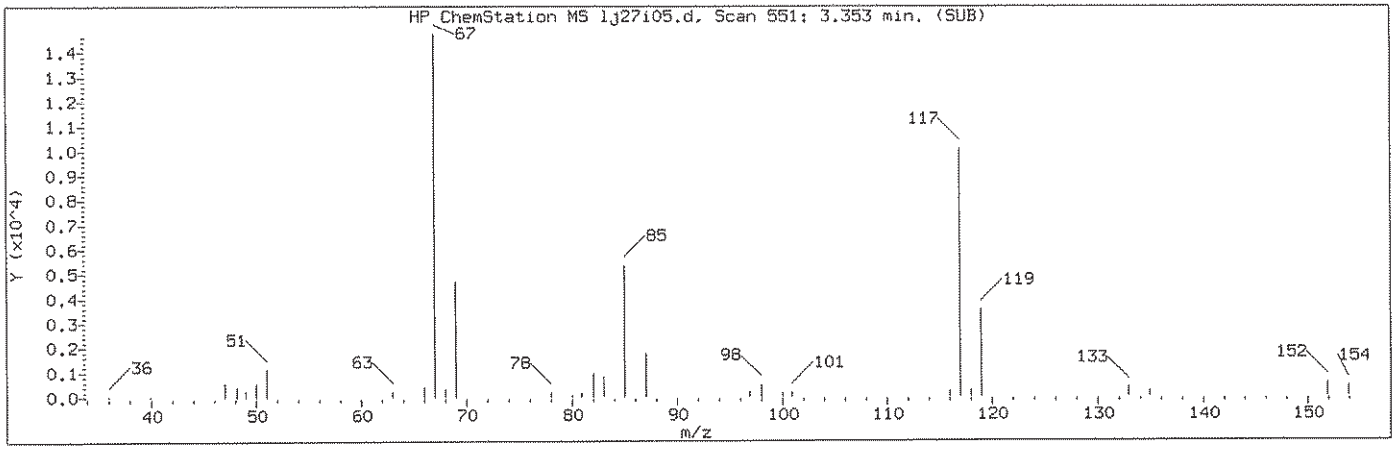
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
135) Benzyl Chloride	(4)	13.179	91	166912	10.015
136) 1,3-Diethylbenzene	(4)	13.234	119	169992	9.843
137) 1,4-Diethylbenzene	(4)	13.308	119	173883	9.924
139) n-Butylbenzene	(4)	13.327	92	147340	10.274
138) 1,2-Dichlorobenzene	(4)	13.362	146	147194	10.473
140) 1,2-Diethylbenzene	(4)	13.378	119	137788	9.937
145) Hexachloroethane	(4)	13.568	201	32519M	9.218
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	18078	10.064
144) 1,3,5-Trichlorobenzene	(4)	14.031	180	116139	10.419
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	111191M	10.338
147) Hexachlorobutadiene	(4)	14.533	225	49482	10.510
148) Naphthalene	(4)	14.636	128	325266	10.131
149) 1,2,3-Trichlorobenzene	(4)	14.774	180	105579	10.210
150) 2-Methylnaphthalene	(4)	15.404	142	180518	10.272

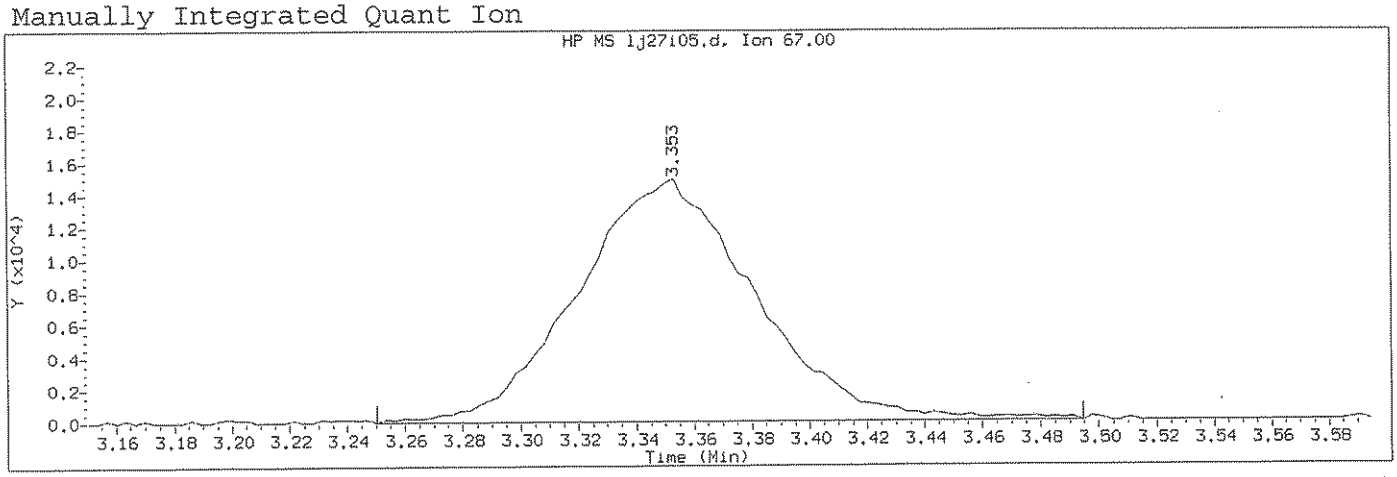
M = Compound was manually integrated.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

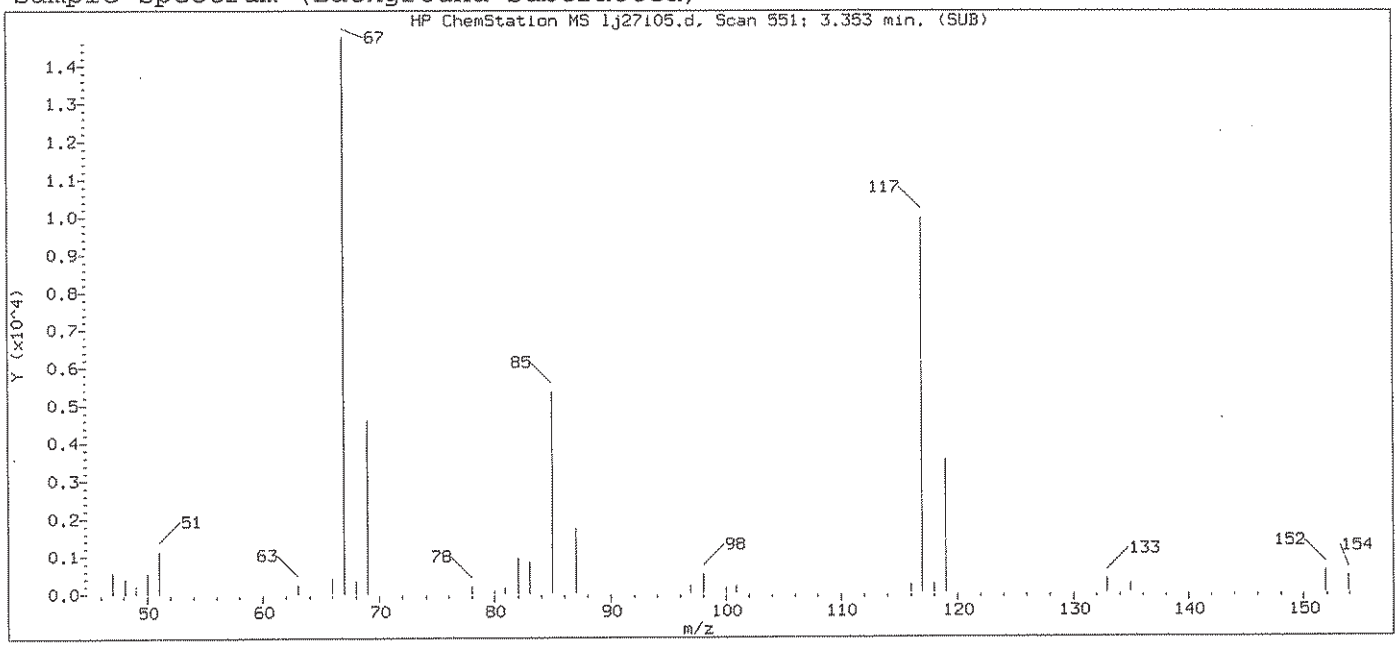
Compound Number	: 15		
Compound Name	: Freon 123a		
Scan Number	: 551		
Retention Time (minutes)	: 3.353		
Quant Ion	: 67.00		
Area (flag)	: 63608M		
On-Column Amount (ng)	: 9.6890		
Integration start scan	: 518	Integration stop scan:	594
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

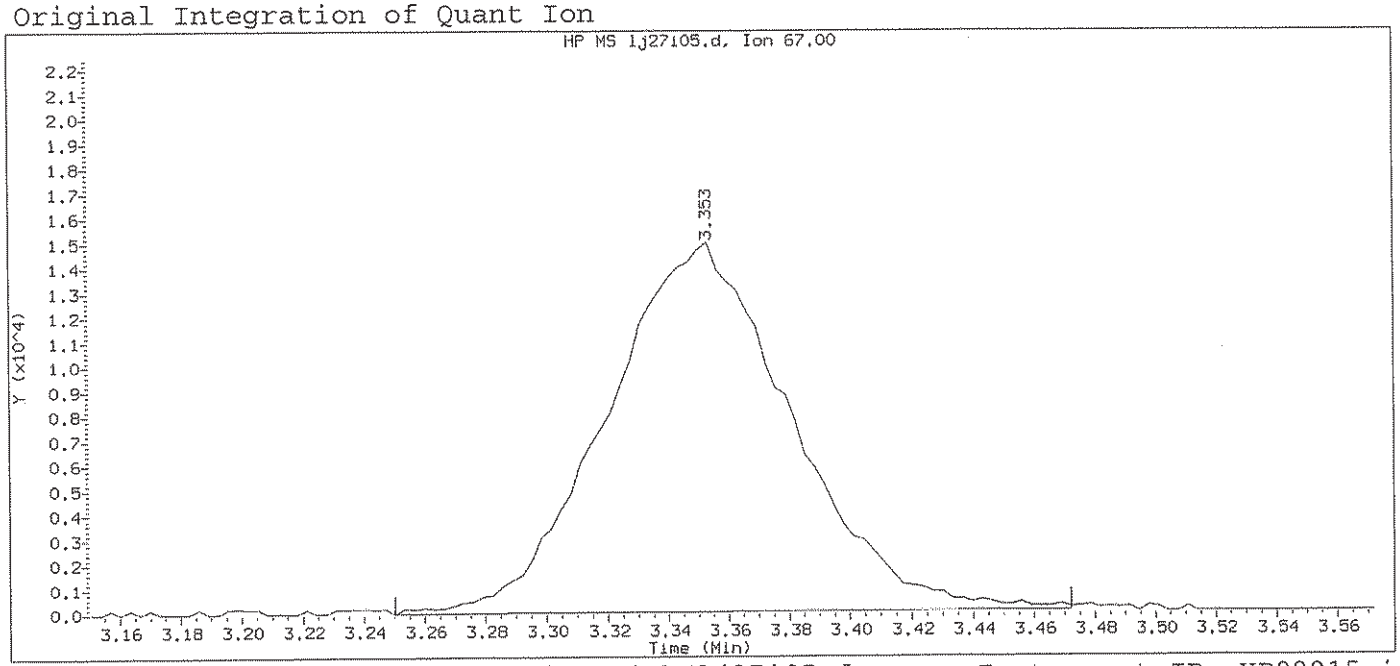
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

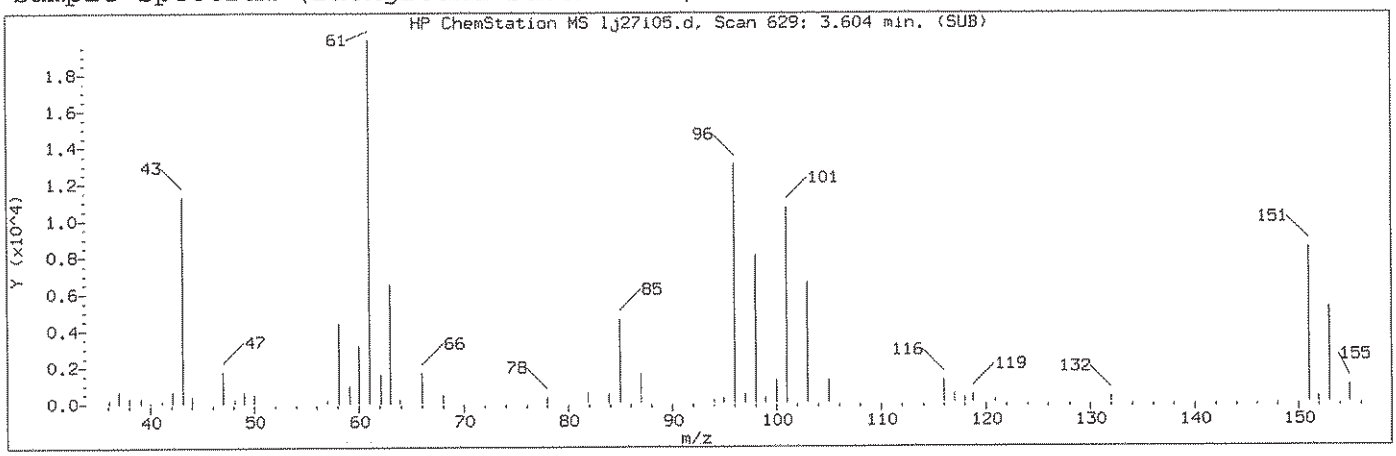
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD010 Lab Sample ID: VSTD010

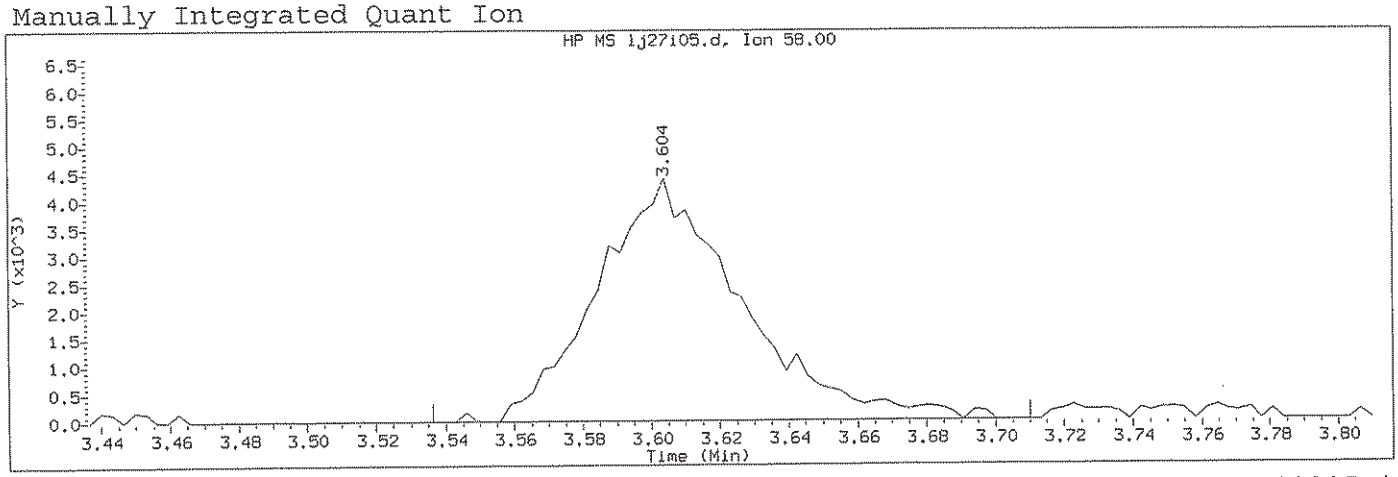
Compound Number	: 15		
Compound Name	: Freon 123a		
Scan Number	: 551		
Retention Time (minutes)	: 3.353		
Quant Ion	: 67.00		
Area	: 62862		
On-column Amount (ng)	: 9.5562		
Integration start scan	: 518	Integration stop scan:	587
Y at integration start	: 0	Y at integration end:	72

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

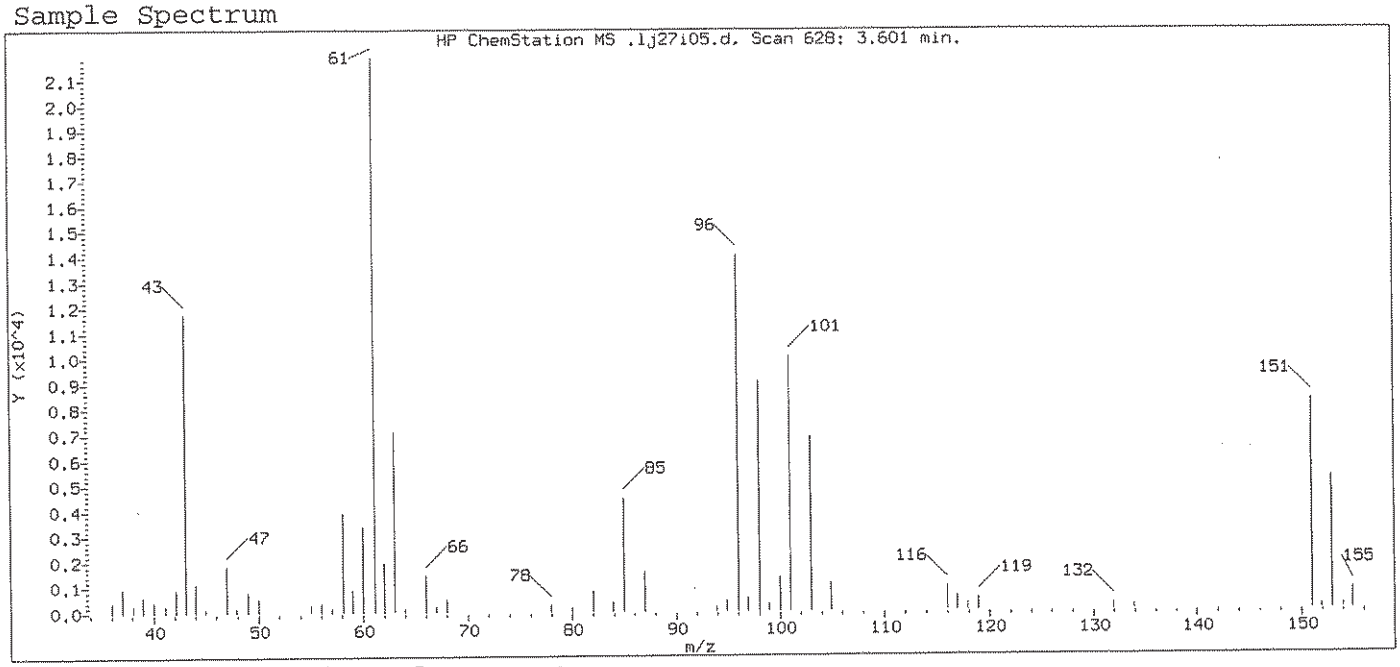
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 629		
Retention Time (minutes)	: 3.604		
Quant Ion	: 58.00		
Area (flag)	: 12847M		
On-Column Amount (ng)	: 19.2423		
Integration start scan	: 607	Integration stop scan:	661
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

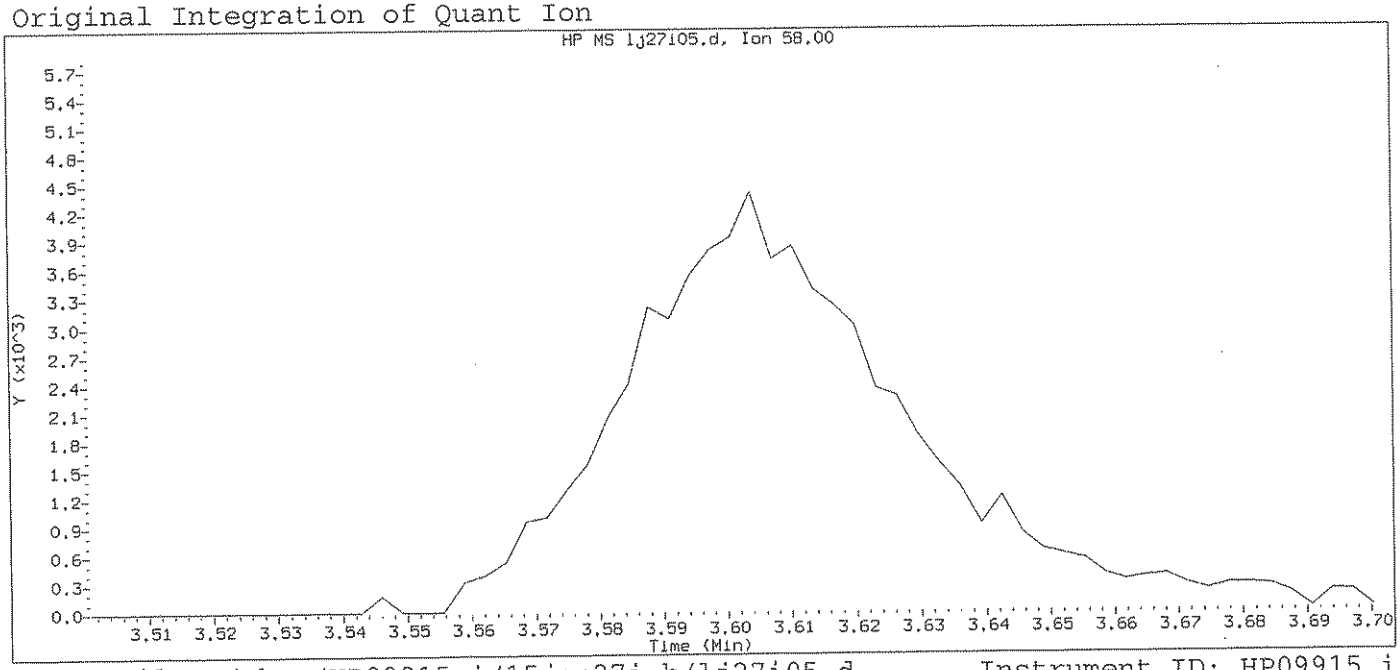
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

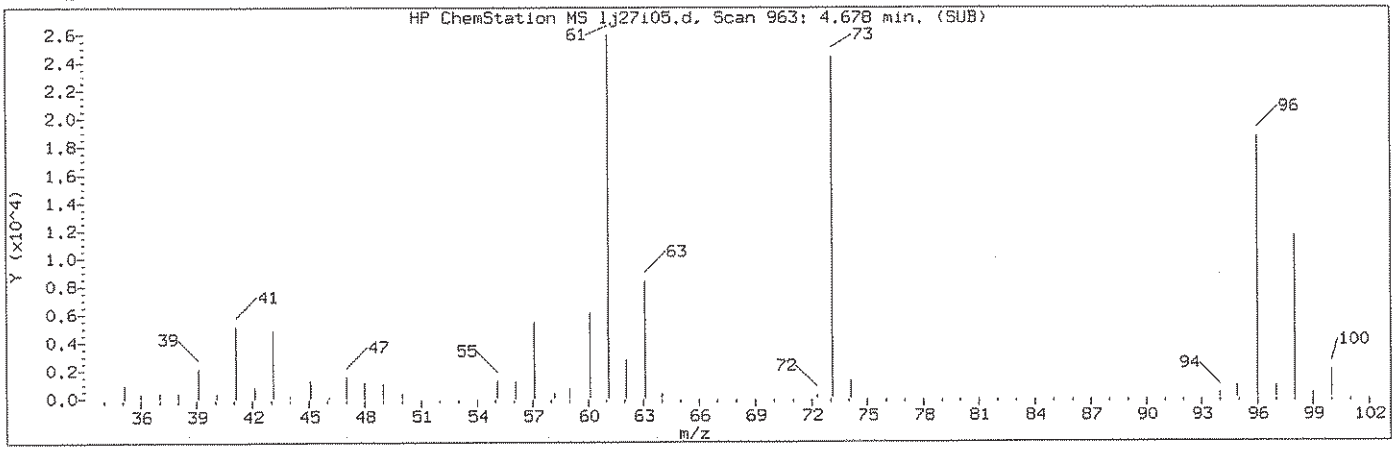
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD010 Lab Sample ID: VSTD010

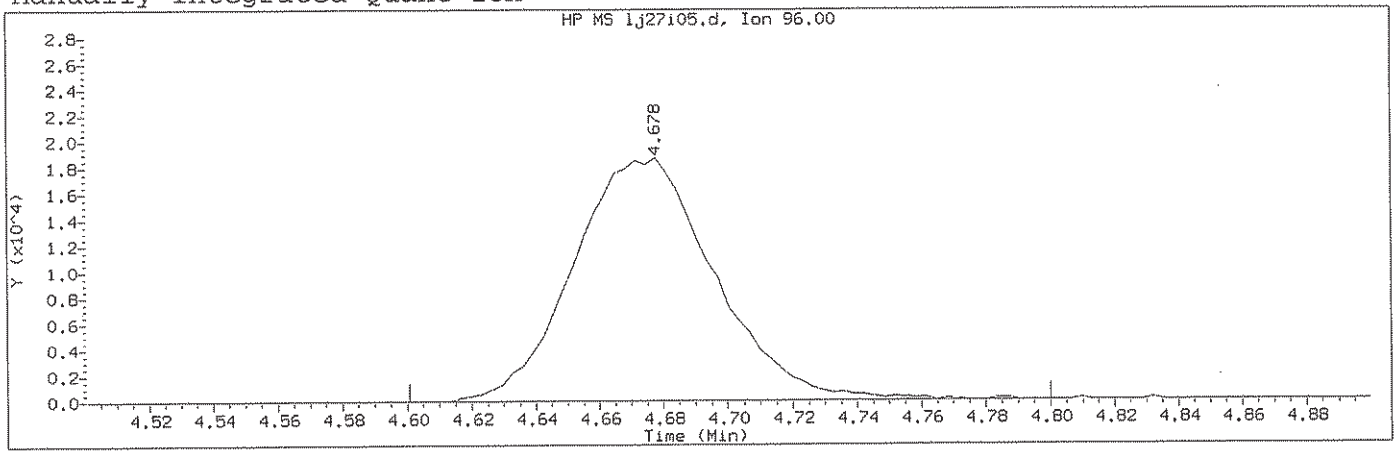
Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

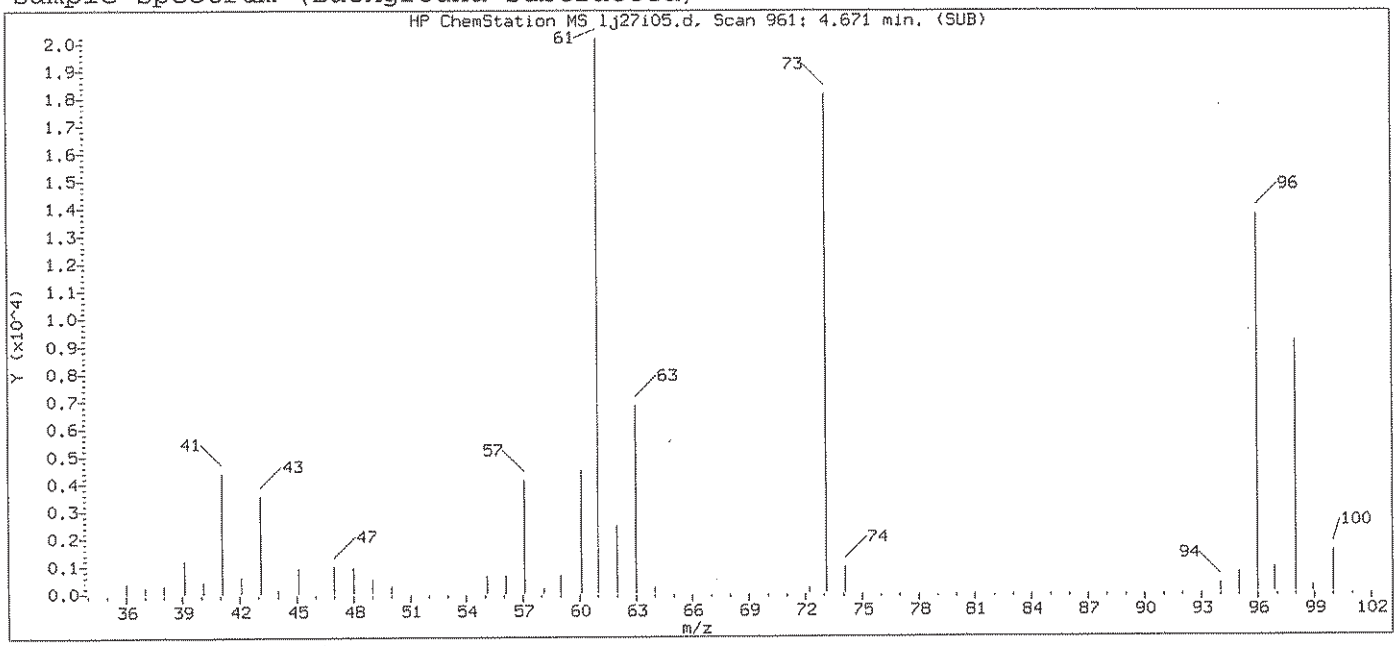
Compound Number : 32
Compound Name : trans-1,2-Dichloroethene
Scan Number : 963
Retention Time (minutes): 4.678
Quant Ion : 96.00
Area (flag) : 57178M
On-Column Amount (ng) : 10.2807
Integration start scan : 938 Integration stop scan: 1000
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

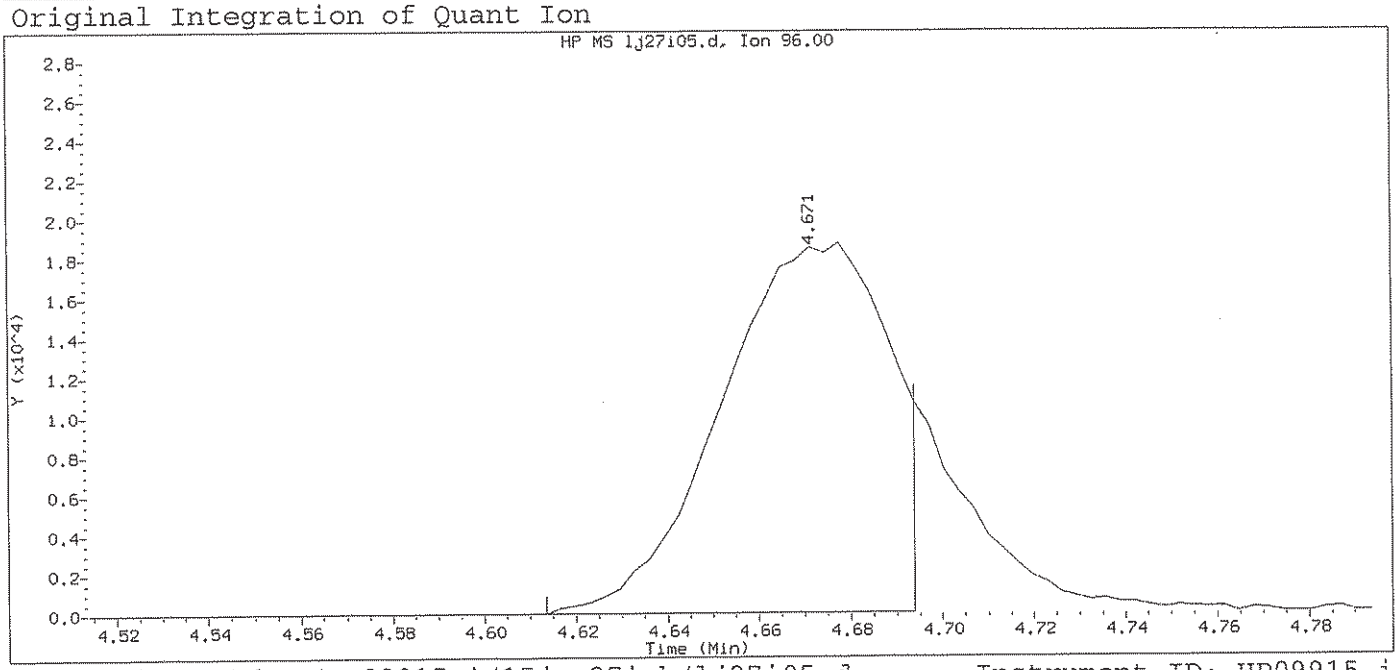
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

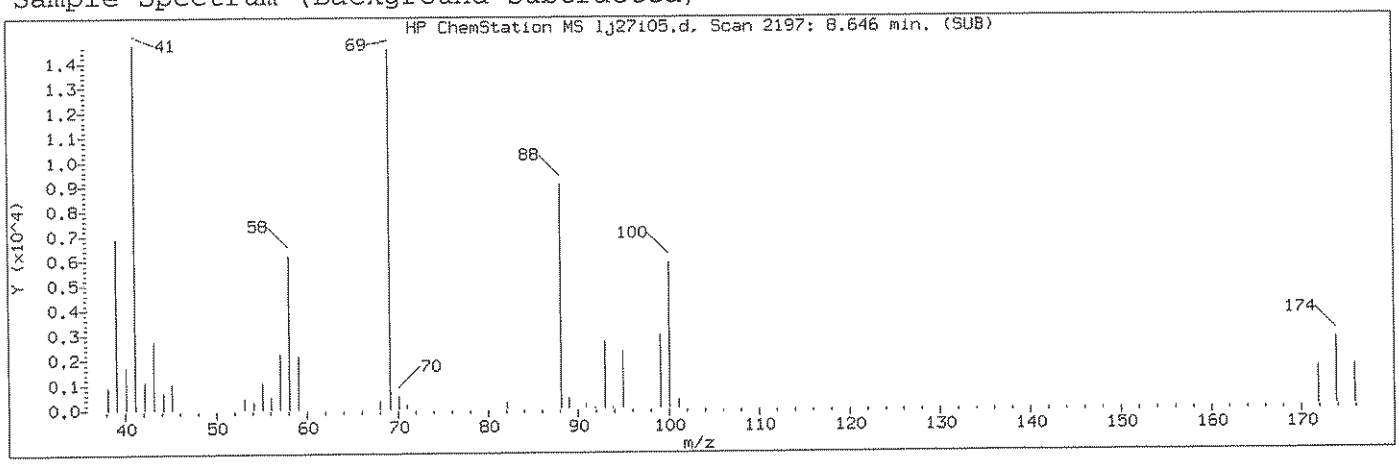
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD010 Lab Sample ID: VSTD010

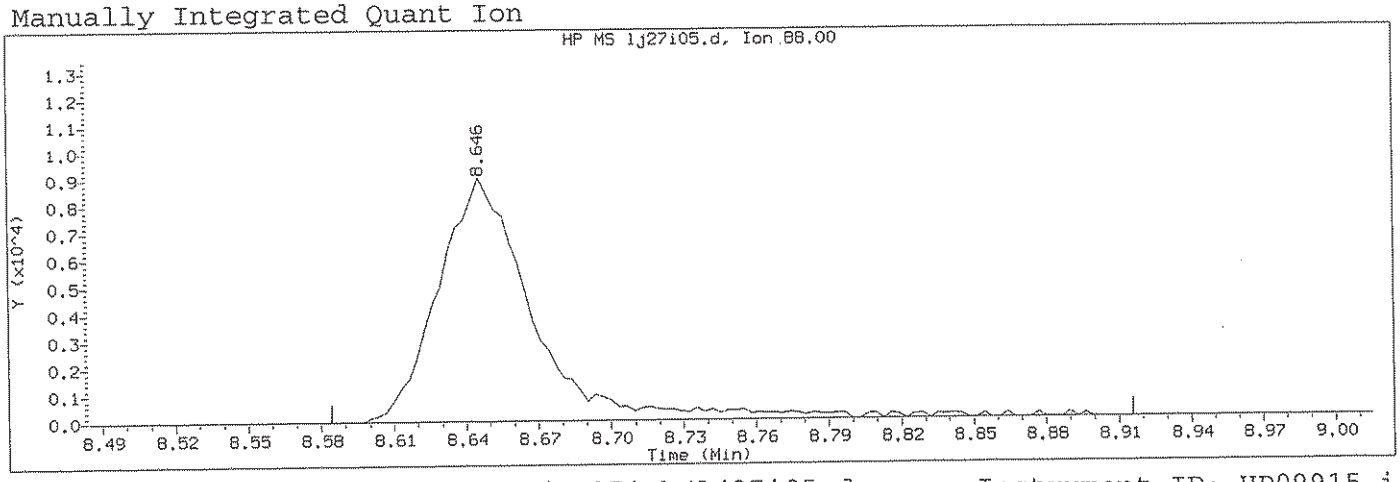
Compound Number	: 32		
Compound Name	: trans-1,2-Dichloroethene		
Scan Number	: 961		
Retention Time (minutes)	: 4.671		
Quant Ion	: 96.00		
Area	: 46952		
On-column Amount (ng)	: 8.7773		
Integration start scan	: 942	Integration stop scan:	967
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

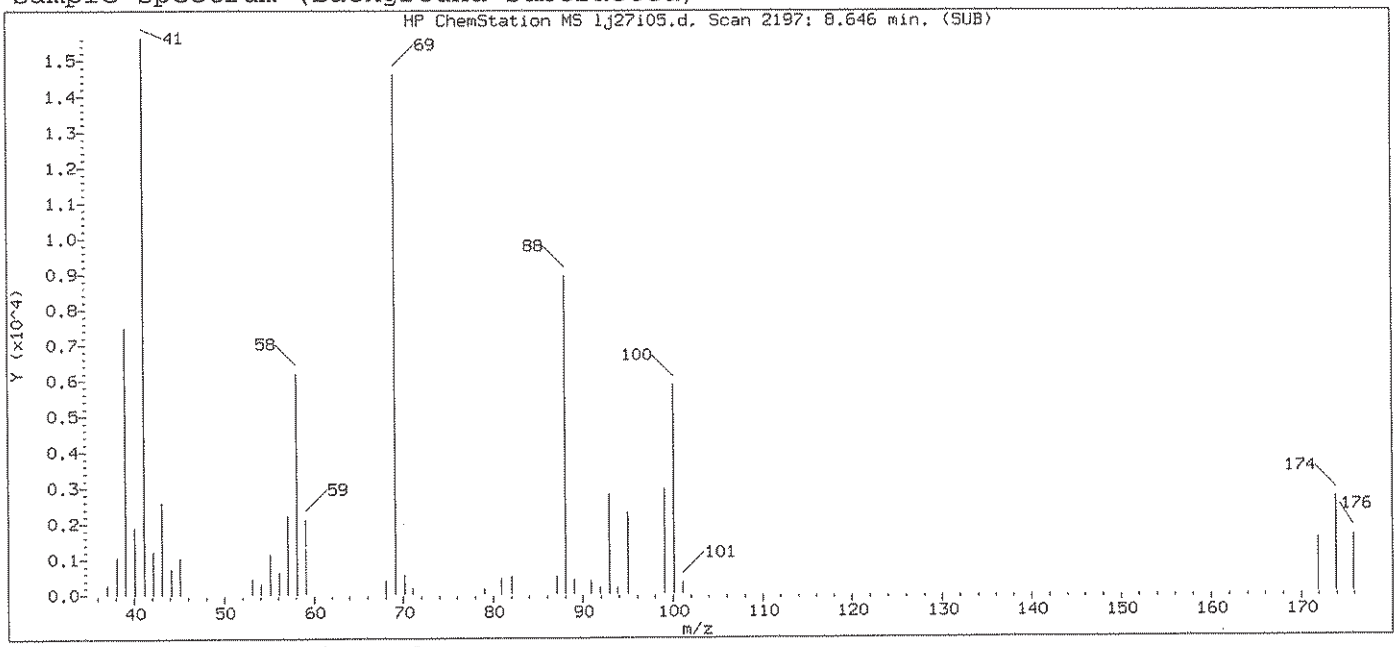
Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2197		
Retention Time (minutes)	: 8.646		
Quant Ion	: 88.00		
Area (flag)	: 25103M		
On-Column Amount (ng)	: 266.2941		
Integration start scan	: 2177	Integration stop scan:	2280
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

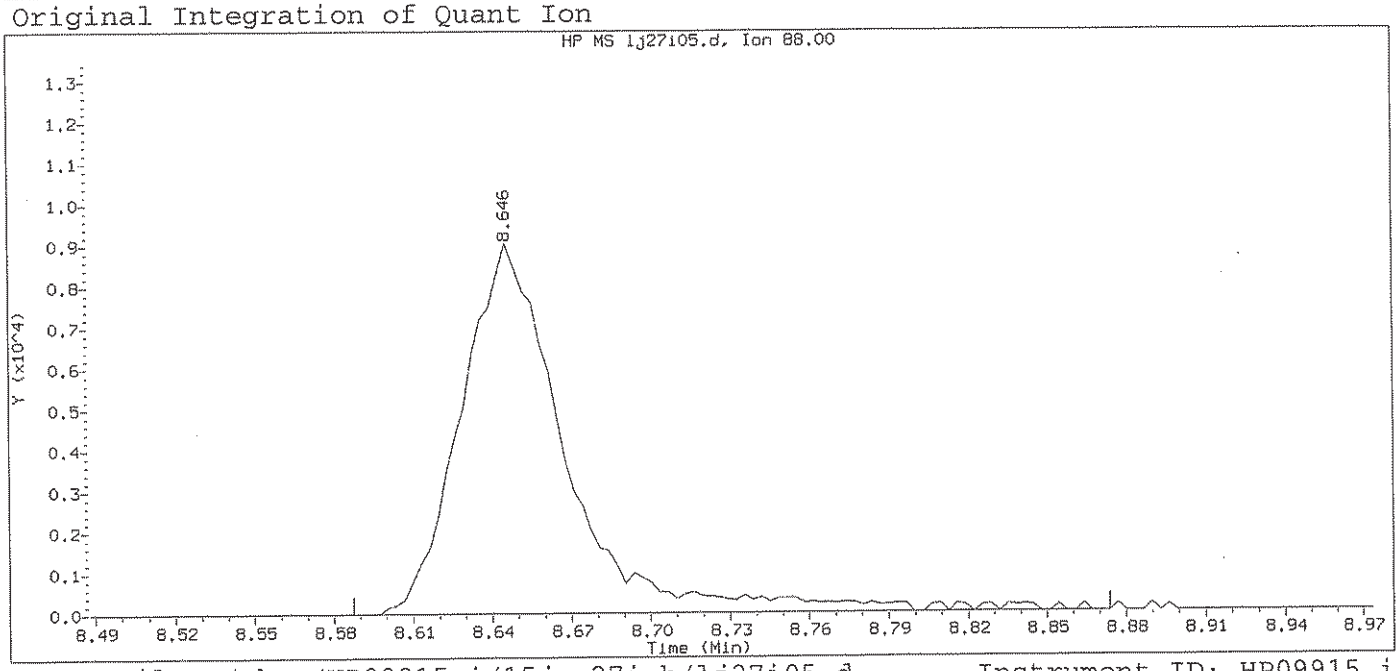
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

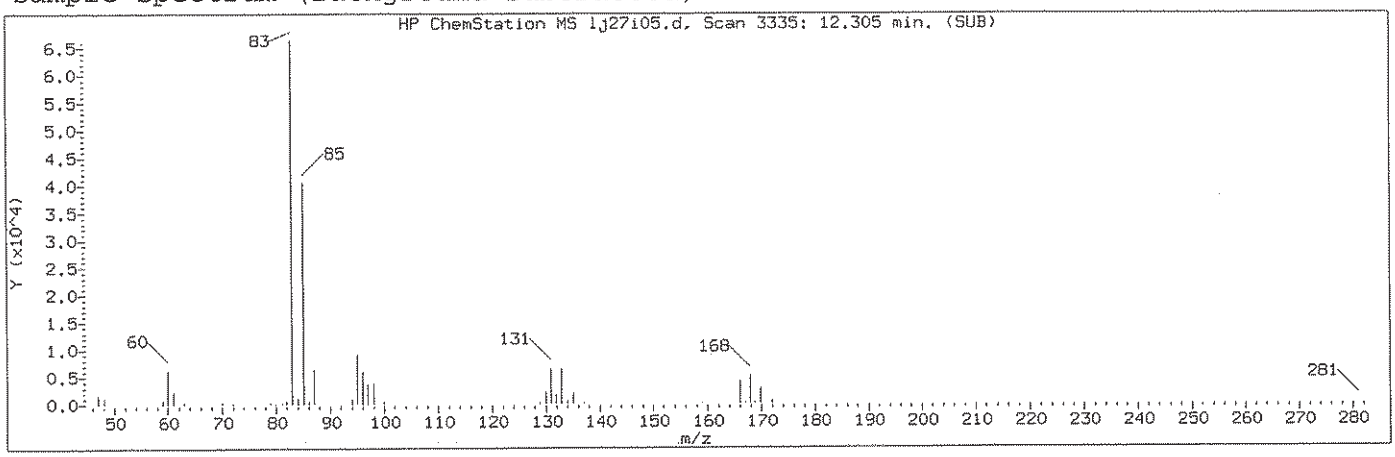
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD010 Lab Sample ID: VSTD010

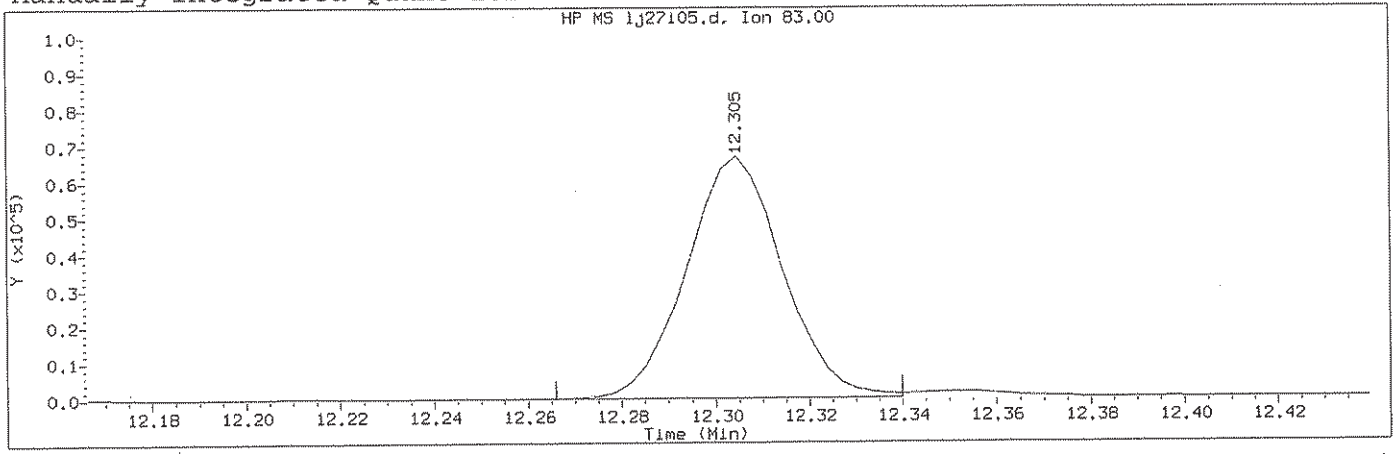
Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2197		
Retention Time (minutes)	: 8.646		
Quant Ion	: 88.00		
Area	: 25000		
On-column Amount (ng)	: 259.0110		
Integration start scan	: 2178	Integration stop scan:	2267
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

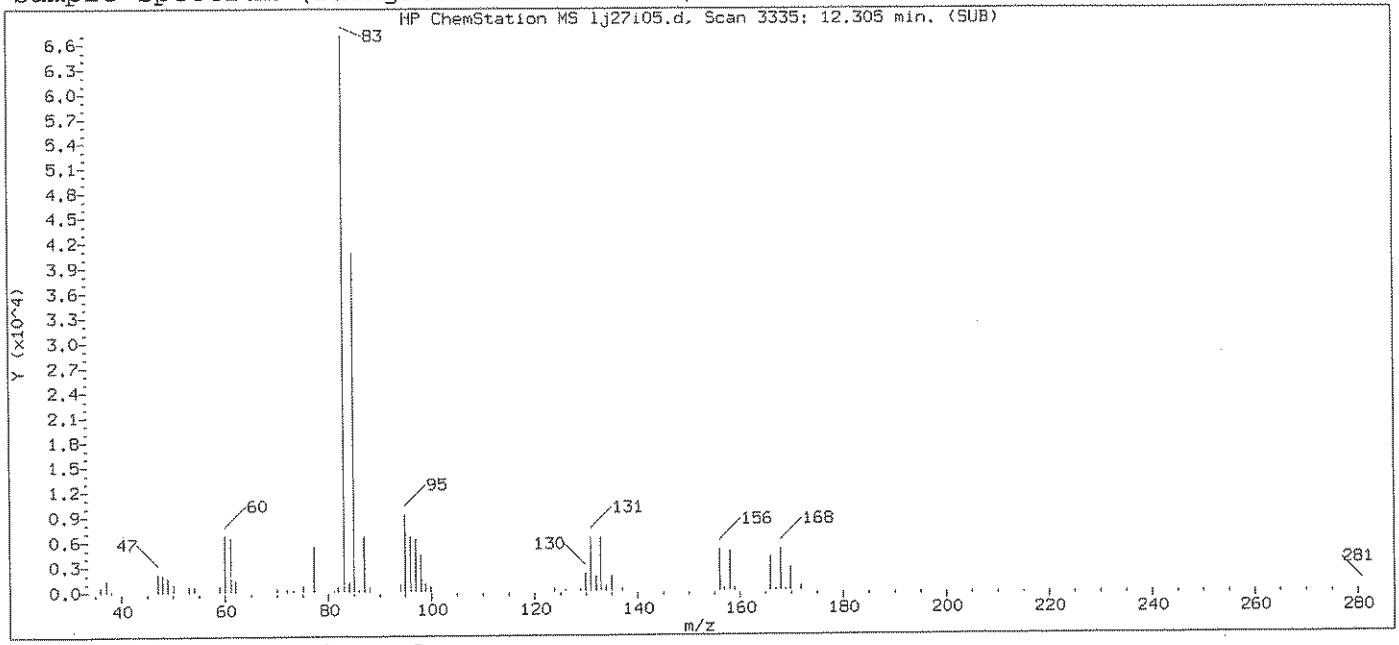
Compound Number	: 116		
Compound Name	: 1,1,2,2-Tetrachloroethane		
Scan Number	: 3335		
Retention Time (minutes)	: 12.305		
Quant Ion	: 83.00		
Area (flag)	: 94887M		
On-Column Amount (ng)	: 10.6627		
Integration start scan	: 3322	Integration stop scan:	3345
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

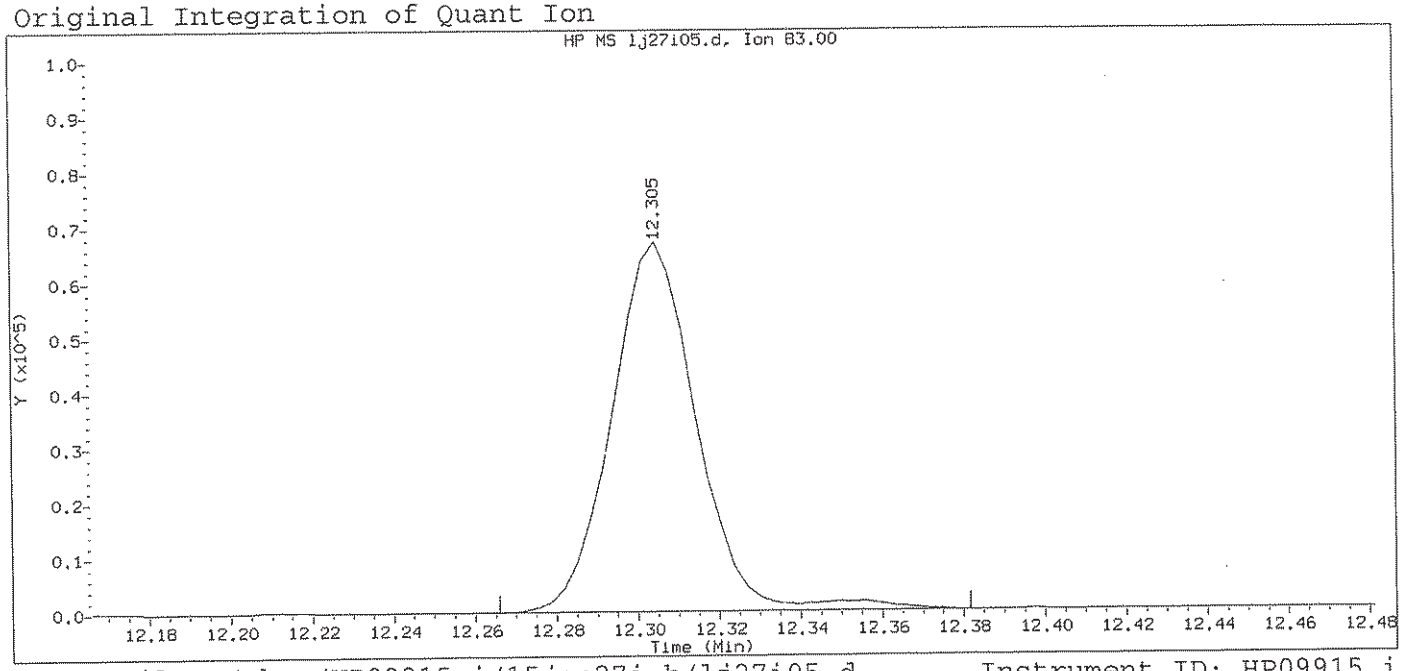
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

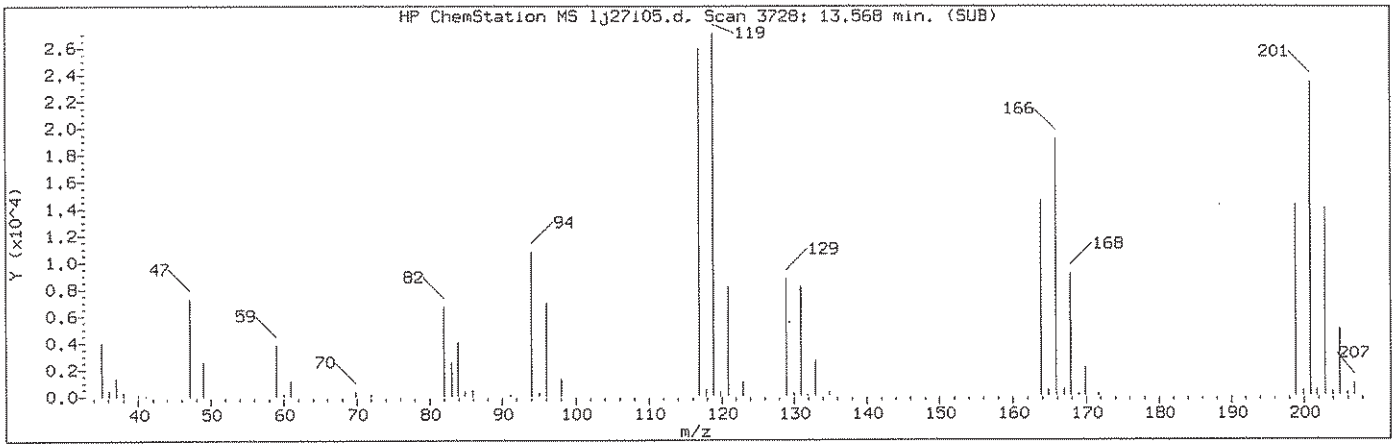
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD010 Lab Sample ID: VSTD010

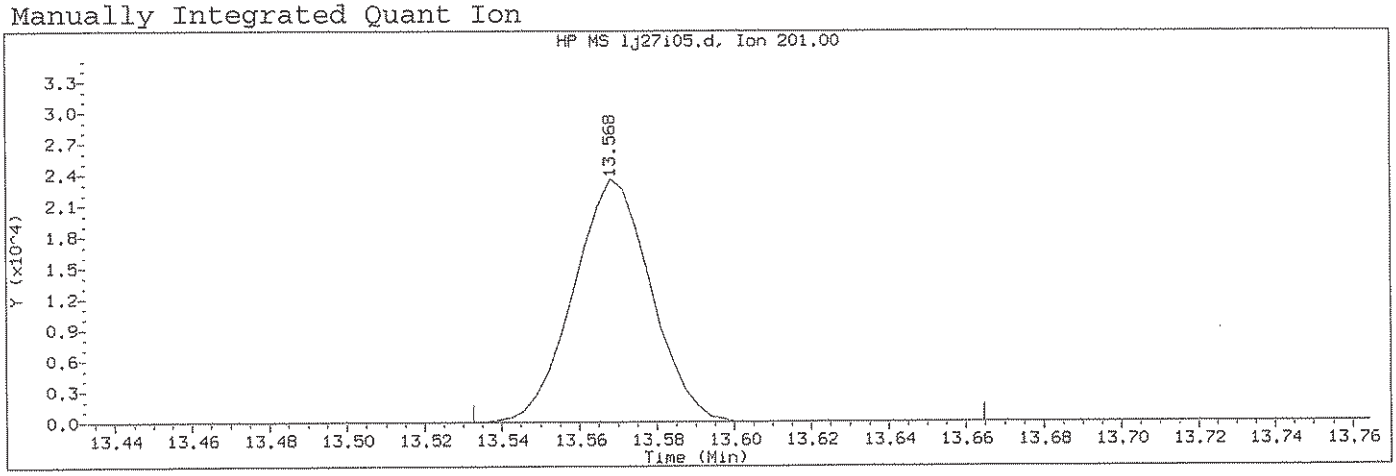
Compound Number	: 116		
Compound Name	: 1,1,2,2-Tetrachloroethane		
Scan Number	: 3335		
Retention Time (minutes)	: 12.305		
Quant Ion	: 83.00		
Area	: 97194		
On-column Amount (ng)	: 10.7379		
Integration start scan	: 3322	Integration stop scan:	3358
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature used: TD: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

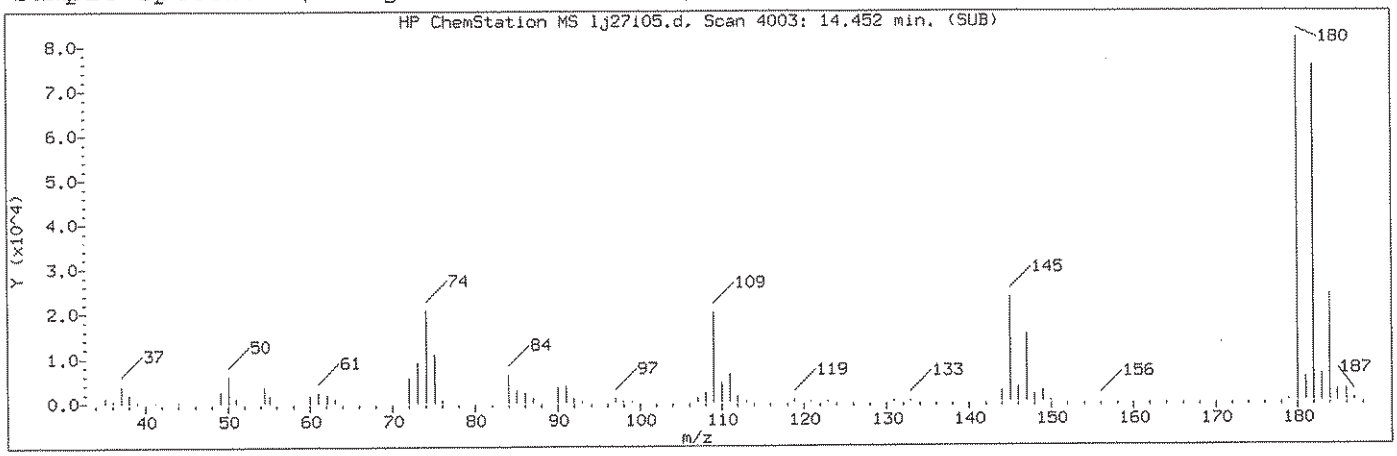
Compound Number	: 145		
Compound Name	: Hexachloroethane		
Scan Number	: 3728		
Retention Time (minutes)	: 13.568		
Quant Ion	: 201.00		
Area (flag)	: 32519M		
On-Column Amount (ng)	: 9.2178		
Integration start scan	: 3716	Integration stop scan:	3757
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: compound not in processing sublist

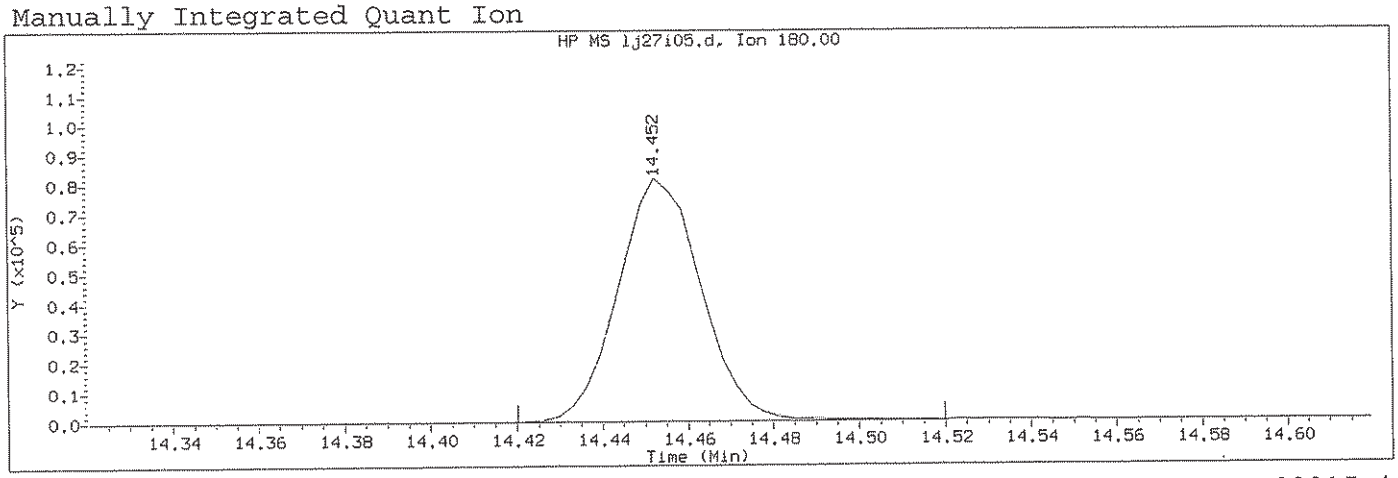
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD010 Lab Sample ID: VSTD010

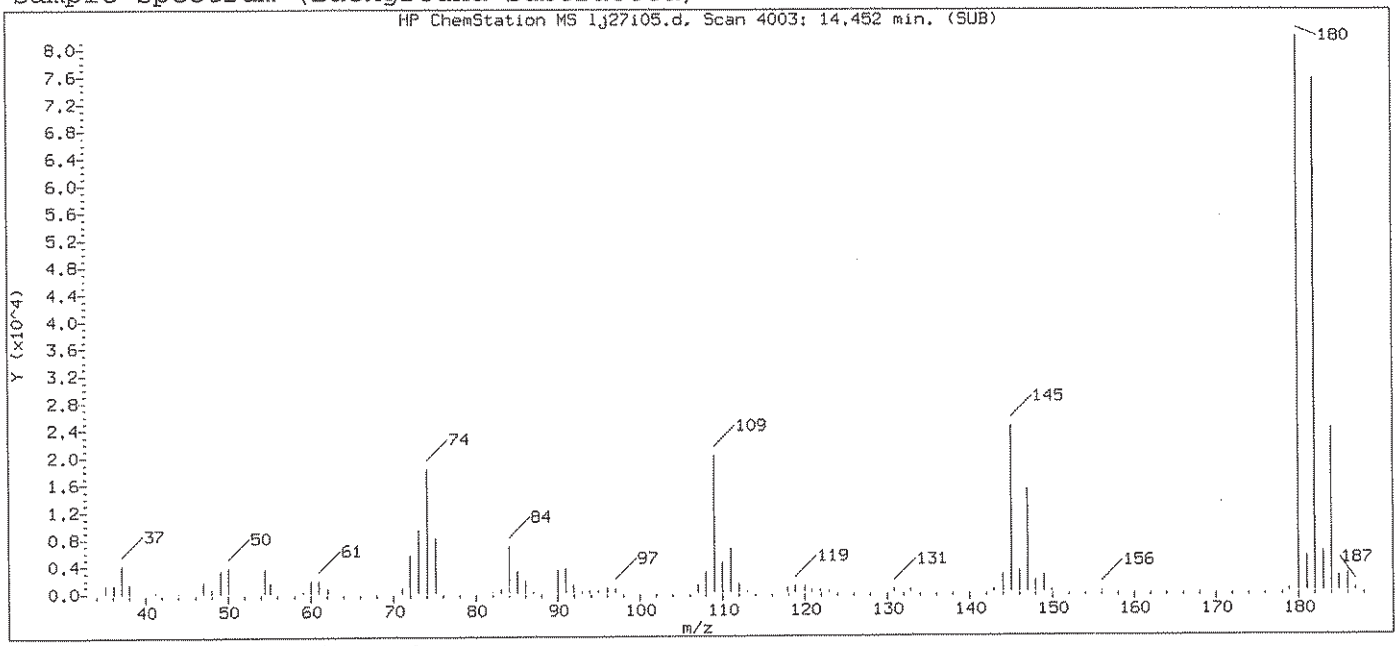
Compound Number	: 146		
Compound Name	: 1,2,4-Trichlorobenzene		
Scan Number	: 4003		
Retention Time (minutes)	: 14.452		
Quant Ion	: 180.00		
Area (flag)	: 111191M		
On-Column Amount (ng)	: 10.3378		
Integration start scan	: 3992	Integration stop scan:	4023
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

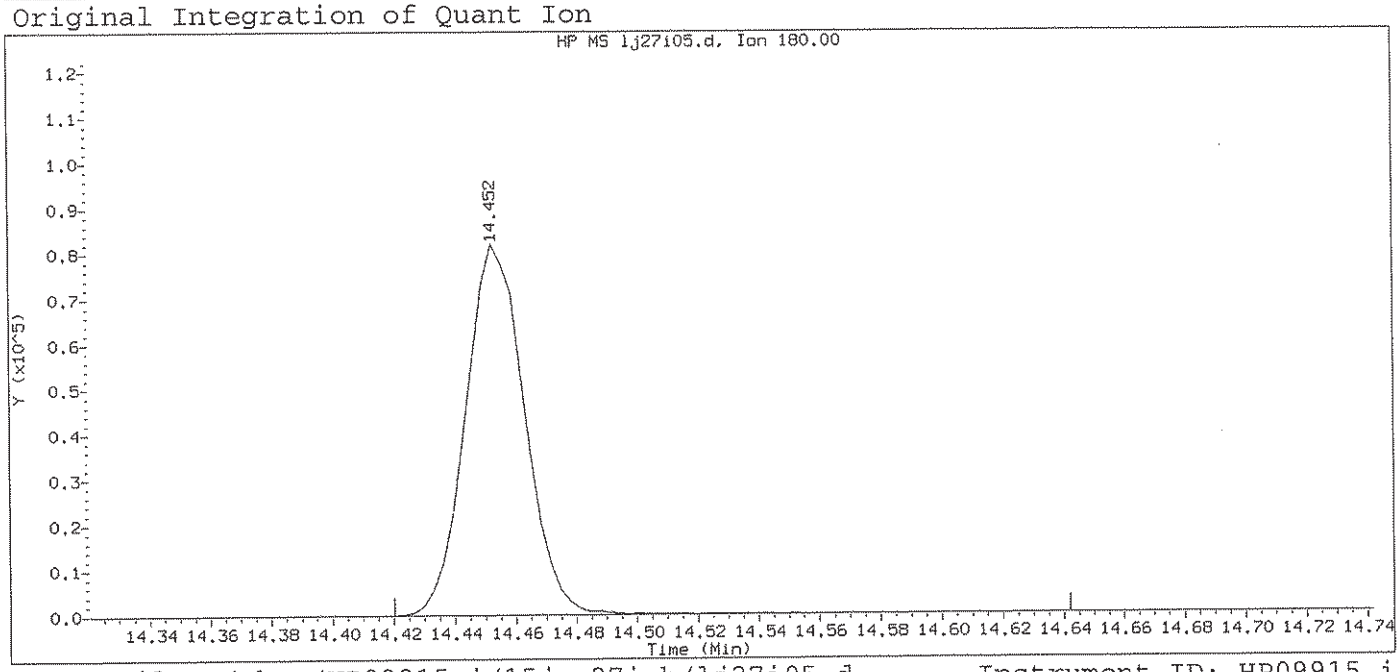
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



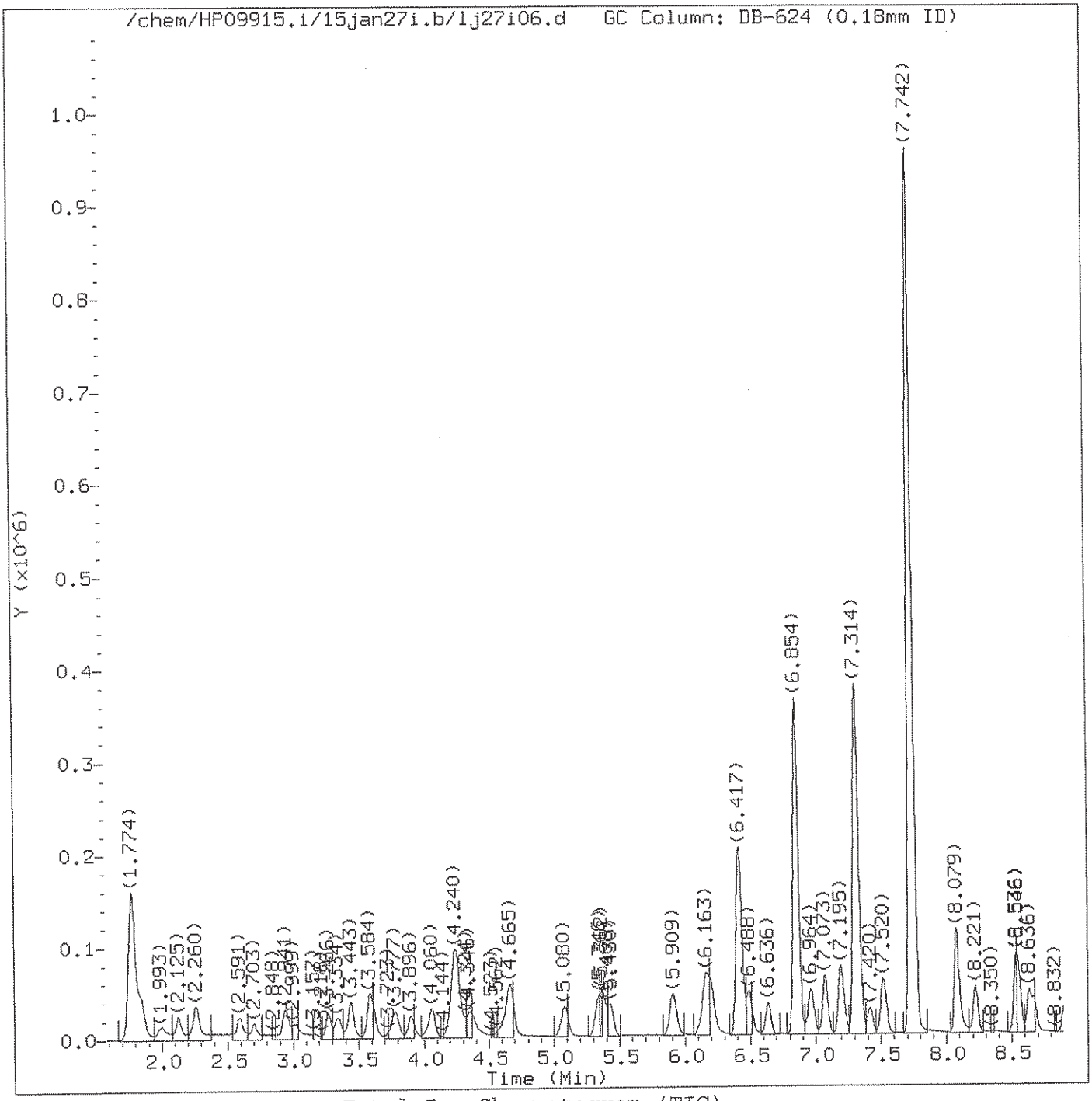
Data File: /chem/HP09915.i/15jan27i.b/lj27i05.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 16:32 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 146		
Compound Name	: 1,2,4-Trichlorobenzene		
Scan Number	: 4003		
Retention Time (minutes)	: 14.452		
Quant Ion	: 180.00		
Area	: 111520		
On-column Amount (ng)	: 10.3356		
Integration start scan	: 3992	Integration stop scan:	4061
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:42.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d
Injection date and time: 27-JAN-2015 17:16

Instrument ID: HP09915.i
Analyst ID: KEL01973

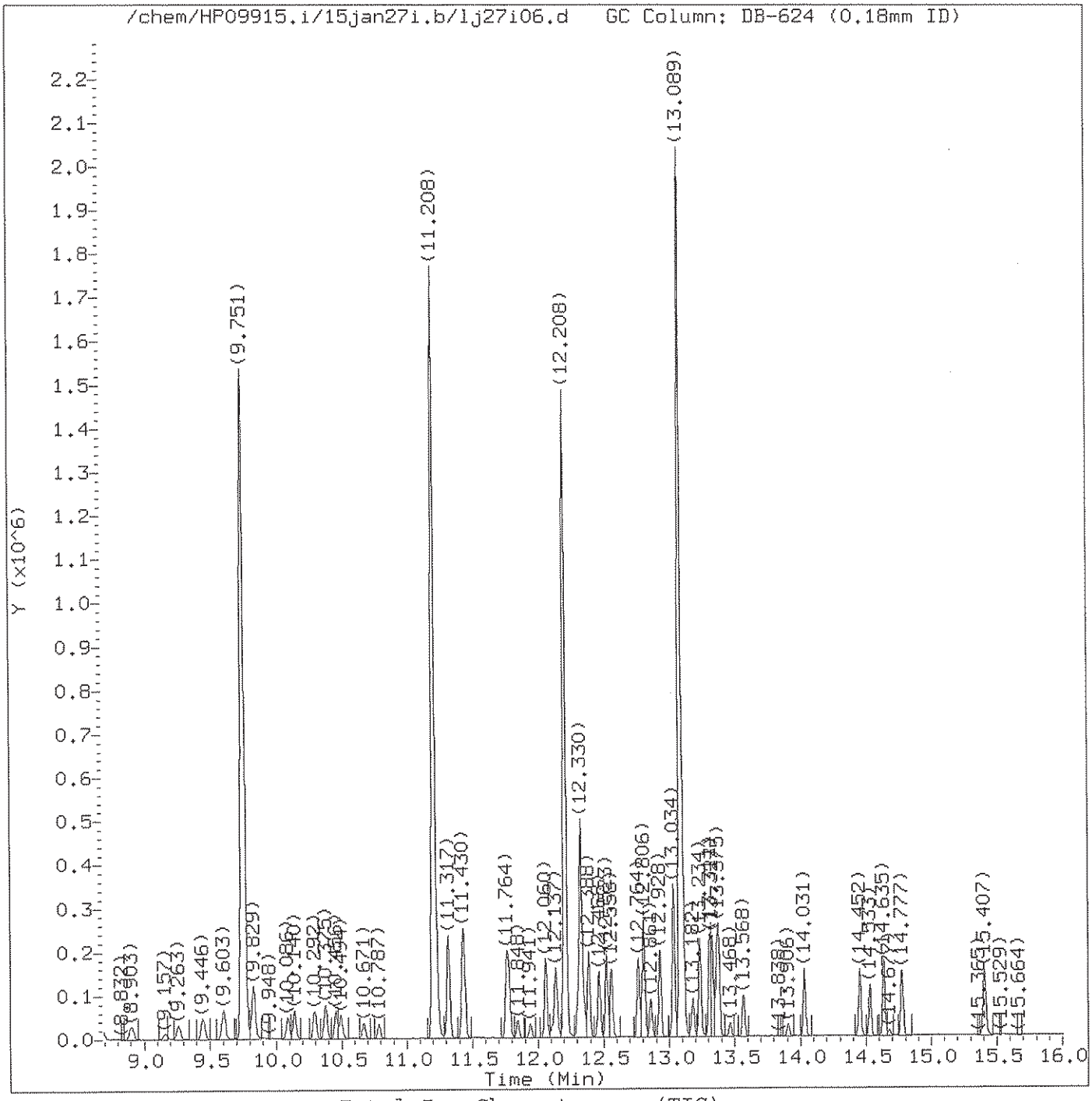
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sublist used: 8260W-BN

Sample Name: VSTD004

Lab Sample ID: VSTD004

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d
Injection date and time: 27-JAN-2015 17:16

Instrument ID: HP09915.i
Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sublist used: 8260W-BN

Sample Name: VSTD004

Lab Sample ID: VSTD004

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.986	85	23824	3.447
4) Chloromethane	(2)	2.128	50	28656	3.910
6) Vinyl Chloride	(2)	2.266	62	25618	3.771
8) Bromomethane	(2)	2.591	94	17028M	4.201
9) Chloroethane	(2)	2.697	64	15242M	4.152
43) 1,2-Dichloroethene (Total)	(2)		96	45359	7.710
10) Dichlorofluoromethane	(2)	2.938	67	36839	3.943
12) Trichlorofluoromethane	(2)	3.012	101	26456	3.596
14) Ethyl ether	(2)	3.266	59	22443	4.130
15) Freon 123a	(2)	3.350	67	25749	3.894
16) Acrolein	(1)	3.443	56	59865	36.528
17) 1,1-Dichloroethene	(2)	3.584	96	18758M	3.806
17) 1,1-Dichloroethene	(2)	3.584	63	9589M	3.831
18) Acetone	(1)	3.597	58	4995M	7.564
19) Freon 113	(2)	3.607	101	18058	3.619
21) 2-Propanol	(1)	3.768	45	42839	76.226
22) Methyl Iodide	(2)	3.784	142	33614	3.774
23) Carbon Disulfide	(2)	3.896	76	58685	3.571
27) Methyl Acetate	(2)	4.028	43	22178	3.909
25) Allyl Chloride	(2)	4.064	41	32025	3.783
29)*t-Butyl alcohol-d10	(1)	4.231	65	217223	250.000
28) Methylene Chloride	(2)	4.253	84	28135	4.180
30) t-Butyl alcohol	(1)	4.363	59	67950	73.539
31) Acrylonitrile	(2)	4.581	53	10309	3.561
33) Methyl Tertiary Butyl Ether	(2)	4.649	73	71615	3.947
32) trans-1,2-Dichloroethene	(2)	4.671	96	21589	3.854
34) n-Hexane	(2)	5.086	57	31729	3.753
36) 1,1-Dichloroethane	(2)	5.330	63	39184	3.794
38) di-Isopropyl ether	(2)	5.366	45	75253	3.863
39) 2-Chloro-1,3-butadiene	(2)	5.433	53	32281	3.680
90) 1,3-Dichloropropene (total)	(3)		100	62785	7.085
40) Ethyl t-butyl ether	(2)	5.903	59	72907	3.882
44) 2-Butanone	(2)	6.115	43	25206	6.973
42) cis-1,2-Dichloroethene	(2)	6.157	96	23770M	3.856
45) 2,2-Dichloropropane	(2)	6.166	77	28672	3.669
47) Propionitrile	(1)	6.202	54	90607	77.410
48) Methacrylonitrile	(2)	6.417	67	123730	38.055
49) Bromochloromethane	(2)	6.497	128	11638	3.858

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Tetrahydrofuran	(1)	6.497	71	6845	7.255
51) Chloroform	(2)	6.636	83	38015	3.880
52)$Dibromofluoromethane	(2)	6.854	113	290225	49.936
52)$Dibromofluoromethane	(2)	6.851	111	296996	50.061
53) 1,1,1-Trichloroethane	(2)	6.867	97	37132	3.995
54) Cyclohexane	(2)	6.964	56	38417	3.671
54) Cyclohexane	(2)	6.964	84	31289	3.696
54) Cyclohexane	(2)	6.977	69	11479	3.626
55) 1,1-Dichloropropene	(2)	7.073	75	28435	3.678
56) Carbon Tetrachloride	(2)	7.079	117	24250	3.500
58) Isobutyl Alcohol	(1)	7.195	41	58111	187.680
57)$1,2-Dichloroethane-d4	(2)	7.314	102	71908	49.978
57)$1,2-Dichloroethane-d4	(2)	7.311	65	339590	50.248
57)$1,2-Dichloroethane-d4	(2)	7.317	104	25957	31.748
60) Benzene	(2)	7.337	78	92172	3.840
61) 1,2-Dichloroethane	(2)	7.414	62	29889	3.949
61) 1,2-Dichloroethane	(2)	7.420	98	2841	3.906
65) t-Amyl methyl ether	(2)	7.517	73	70550	3.894
66)*Fluorobenzene	(2)	7.742	96	1216365	50.000
67) n-Heptane	(2)	7.745	43	34355	3.843
108) Xylene (Total)	(3)		106	126740	11.566
69) n-Butanol	(1)	8.079	56	99109	363.349
71) Trichloroethene	(2)	8.224	95	22787	3.726
72) Methylcyclohexane	(2)	8.536	83	39723	3.743
72) Methylcyclohexane	(2)	8.536	98	18115	3.795
73) 1,2-Dichloropropane	(2)	8.562	63	24606	3.859
76) Methyl Methacrylate	(2)	8.632	69	19956M	3.747
75) 1,4-Dioxane	(1)	8.645	88	17676M	189.575
74) Dibromomethane	(2)	8.668	93	15520	3.913
78) Bromodichloromethane	(2)	8.903	83	26660	3.629
79) 2-Nitropropane	(2)	9.163	41	10471	8.623
80) 2-Chloroethyl Vinyl Ether	(2)	9.263	63	17017	3.679
81) cis-1,3-Dichloropropene	(2)	9.449	75	33370	3.578
82) 4-Methyl-2-pentanone	(2)	9.603	43	53792	6.811
83)$Toluene-d8	(3)	9.751	98	1190866	49.757
83)$Toluene-d8	(3)	9.751	100	782030	49.700
141) Diethylbenzene (total)	(4)		100	186263	11.630
88) Toluene	(3)	9.829	92	57670	3.862

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on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
89) trans-1,3-Dichloropropene	(3)	10.086	75	29415	3.507
91) Ethyl Methacrylate	(3)	10.140	69	35434	3.701
92) 1,1,2-Trichloroethane	(3)	10.292	97	22417	3.968
93) Tetrachloroethene	(3)	10.378	166	23974	3.772
94) 1,3-Dichloropropane	(3)	10.456	76	37636	3.838
96) 2-Hexanone	(3)	10.494	43	38331	6.678
97) Dibromochloromethane	(3)	10.671	129	19601	3.443
99) 1,2-Dibromoethane	(3)	10.787	107	22722	3.749
100)*Chlorobenzene-d5	(3)	11.208	117	919248	50.000
101) 1-Chlorohexane	(3)	11.211	91	33091	4.056
102) Chlorobenzene	(3)	11.234	112	62942	3.841
103) 1,1,1,2-Tetrachloroethane	(3)	11.314	131	19474	3.637
104) Ethylbenzene	(3)	11.317	91	109748	3.836
106) m+p-Xylene	(3)	11.433	106	85347	7.731
107) o-Xylene	(3)	11.761	106	41393	3.835
109) Styrene	(3)	11.777	104	68693	3.800
110) Bromoform	(3)	11.944	173	13960	3.286
111) Isopropylbenzene	(3)	12.060	105	109766	3.800
112) Cyclohexanone	(1)	12.137	55	65559M	189.714
114)$4-Bromofluorobenzene	(3)	12.208	95	470171	49.343
114)$4-Bromofluorobenzene	(3)	12.208	174	382930	49.206
116) 1,1,2,2-Tetrachloroethane	(4)	12.304	83	34091M	3.878
115) Bromobenzene	(4)	12.327	156	28334	3.971
118) trans-1,4-Dichloro-2-butene	(4)	12.330	53	73603	35.302
117) 1,2,3-Trichloropropane	(4)	12.353	110	9984	3.923
119) n-Propylbenzene	(4)	12.388	91	134433	3.915
120) 2-Chlorotoluene	(4)	12.468	126	25816	3.821
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	95948	3.905
121) 4-Chlorotoluene	(4)	12.558	126	27358	3.887
124) tert-Butylbenzene	(4)	12.761	134	19416M	3.838
125) Pentachloroethane	(4)	12.800	167	14949	3.662
126) 1,2,4-Trimethylbenzene	(4)	12.806	105	97916	3.925
127) sec-Butylbenzene	(4)	12.928	105	122531	3.880
129) 1,3-Dichlorobenzene	(4)	13.031	146	55413	4.030
130) p-Isopropyltoluene	(4)	13.037	119	107484	3.952
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	486037	50.000
133) 1,4-Dichlorobenzene	(4)	13.105	146	57381	4.040
134) 1,2,3-Trimethylbenzene	(4)	13.111	105	101759	3.950

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on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
135) Benzyl Chloride	(4)	13.182	91	54729	3.324
136) 1,3-Diethylbenzene	(4)	13.234	119	65648	3.848
137) 1,4-Diethylbenzene	(4)	13.308	119	67133	3.878
139) n-Butylbenzene	(4)	13.327	92	54423	3.841
138) 1,2-Dichlorobenzene	(4)	13.362	146	55883	4.024
140) 1,2-Diethylbenzene	(4)	13.378	119	53482	3.904
145) Hexachloroethane	(4)	13.568	201	12380M	3.552
142) 1,2-Dibromo-3-chloropropane	(4)	13.909	75	6439	3.628
144) 1,3,5-Trichlorobenzene	(4)	14.031	180	43813	4.529
146) 1,2,4-Trichlorobenzene	(4)	14.455	180	43596	4.641
147) Hexachlorobutadiene	(4)	14.533	225	19320	5.190
148) Naphthalene	(4)	14.635	128	124915	3.938
149) 1,2,3-Trichlorobenzene	(4)	14.777	180	42965	4.679
150) 2-Methylnaphthalene	(4)	15.407	142	78020	5.886

M = Compound was manually integrated.

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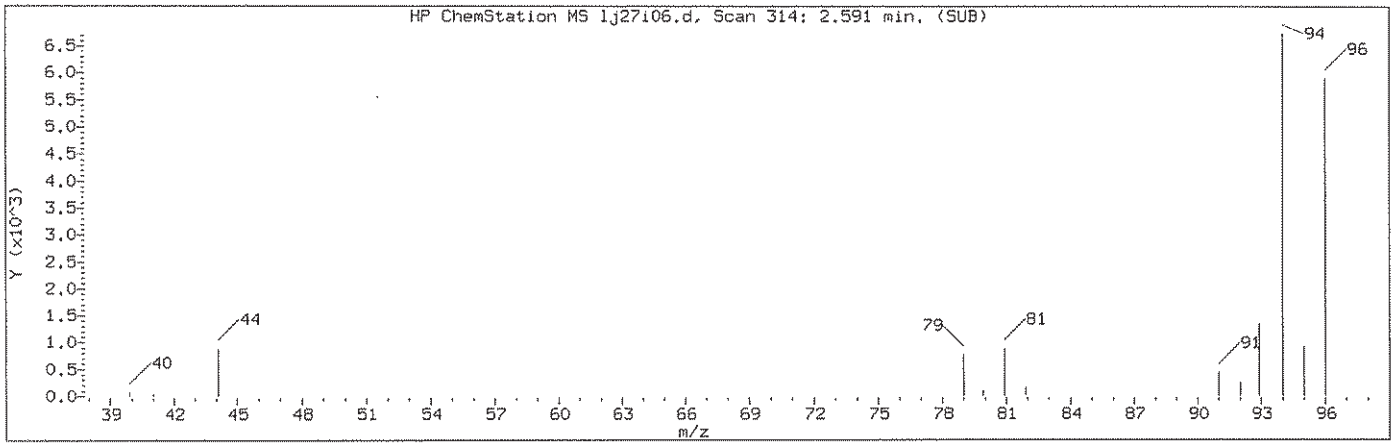
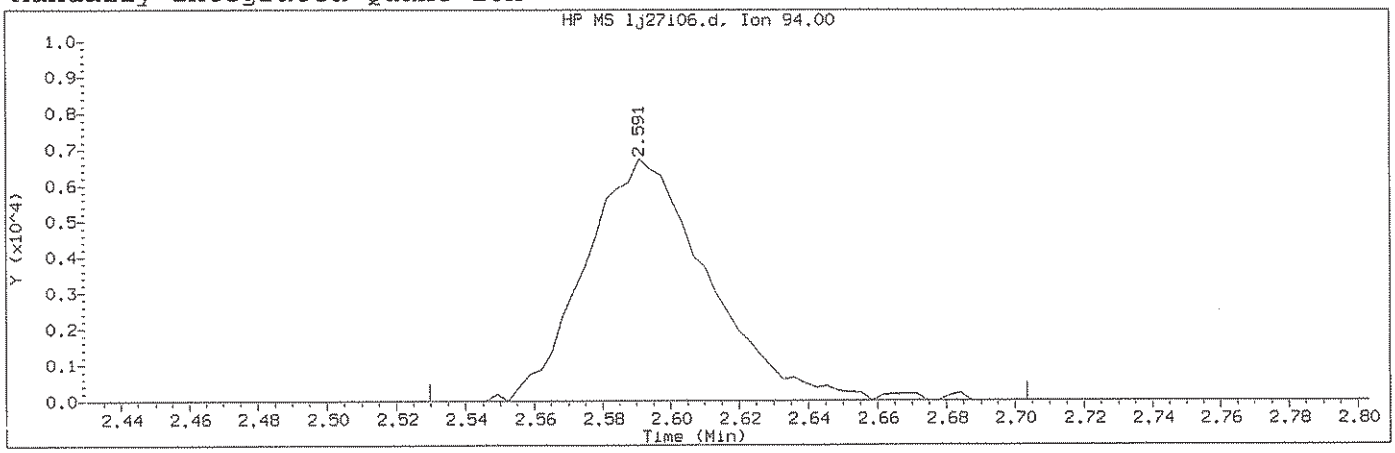
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

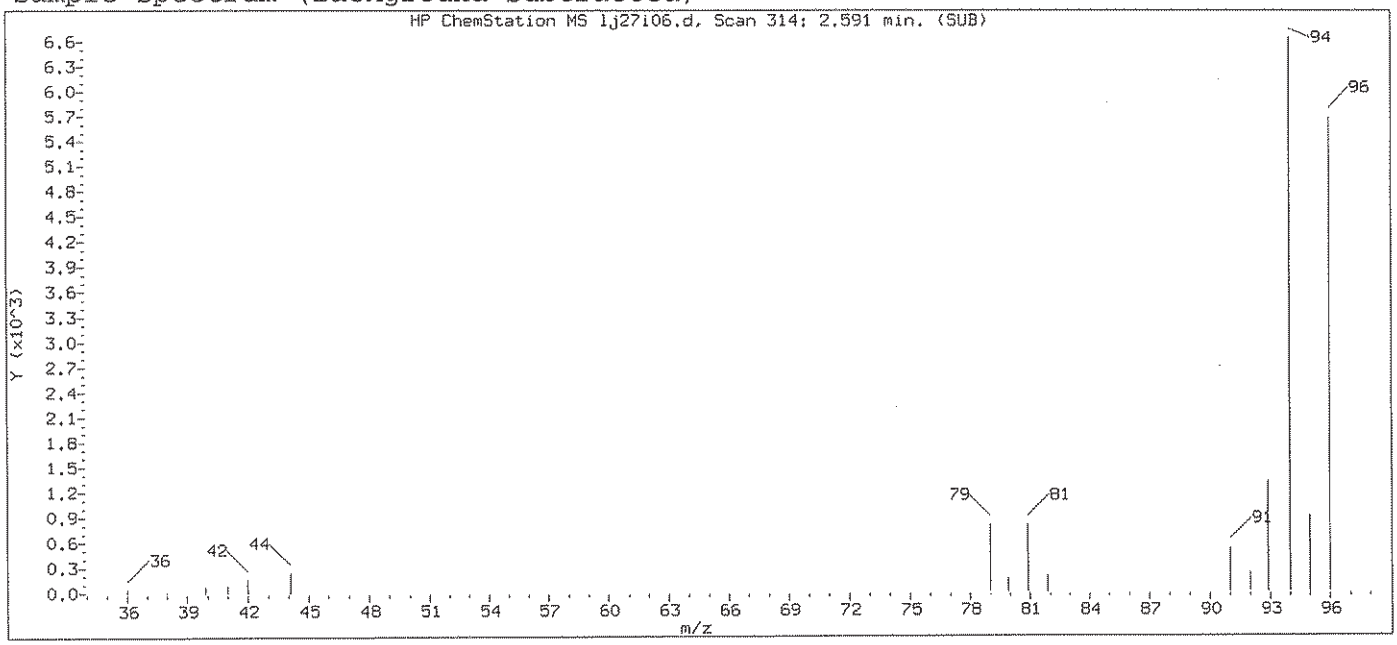
Compound Number	: 8		
Compound Name	: Bromomethane		
Scan Number	: 314		
Retention Time (minutes)	: 2.591		
Quant Ion	: 94.00		
Area (flag)	: 17028M		
On-Column Amount (ng)	: 4.2010		
Integration start scan	: 294	Integration stop scan:	348
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

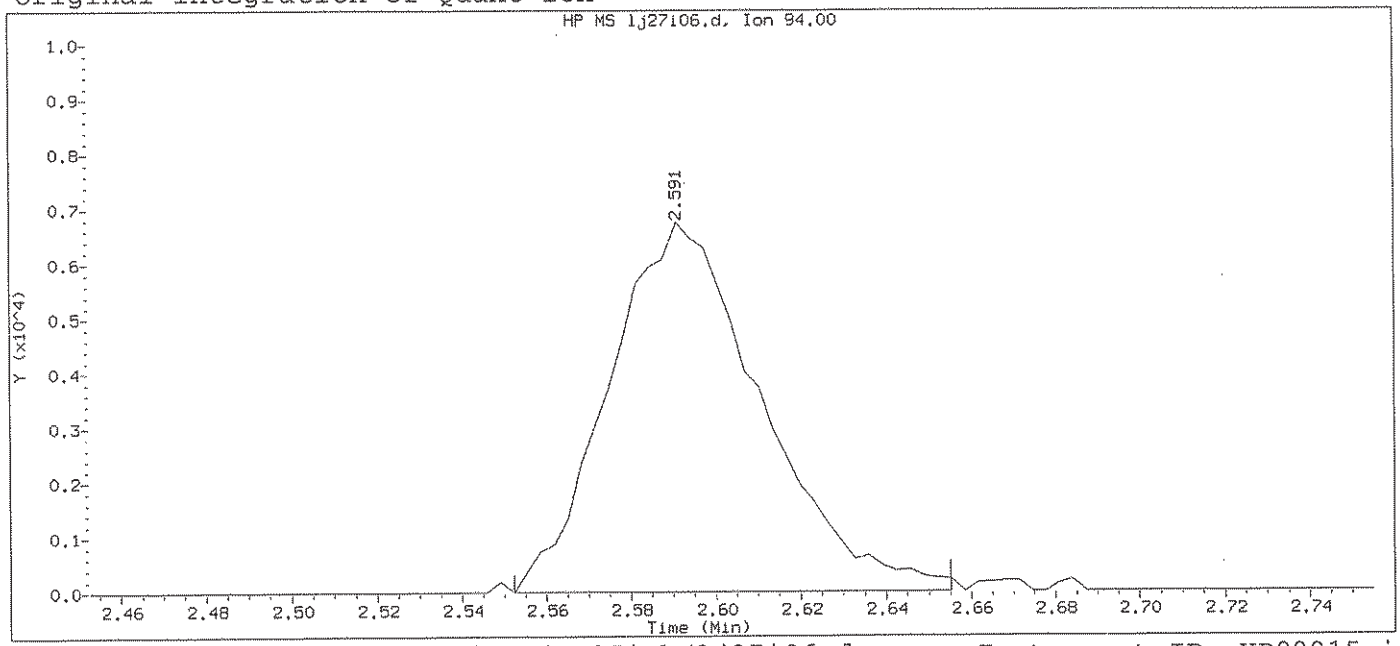
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 8		
Compound Name	: Bromomethane		
Scan Number	: 314		
Retention Time (minutes)	: 2.591		
Quant Ion	: 94.00		
Area	: 16762		
On-column Amount (ng)	: 4.1667		
Integration start scan	: 301	Integration stop scan:	333
Y at integration start	: 0	Y at integration end:	0

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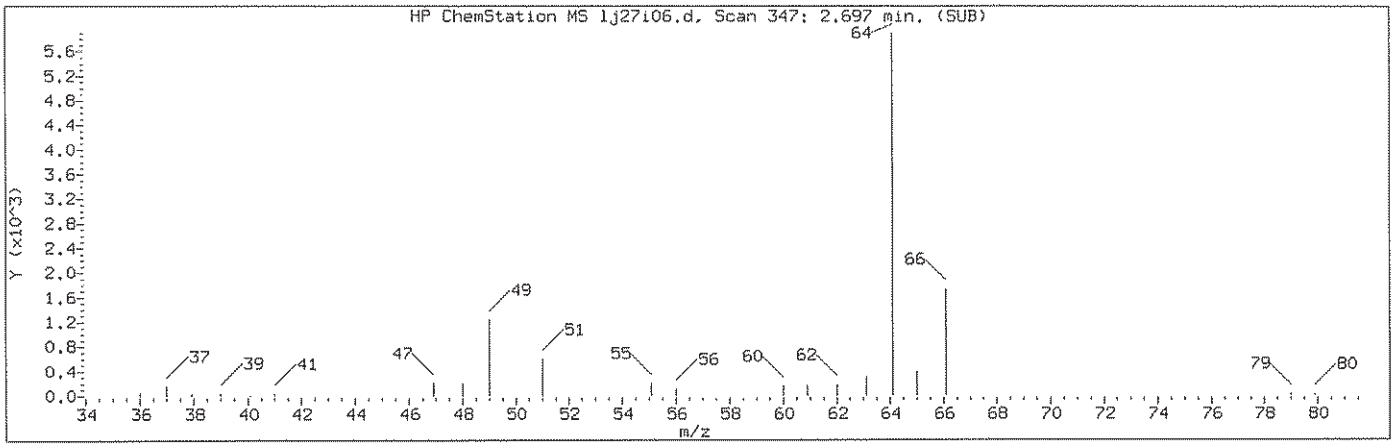
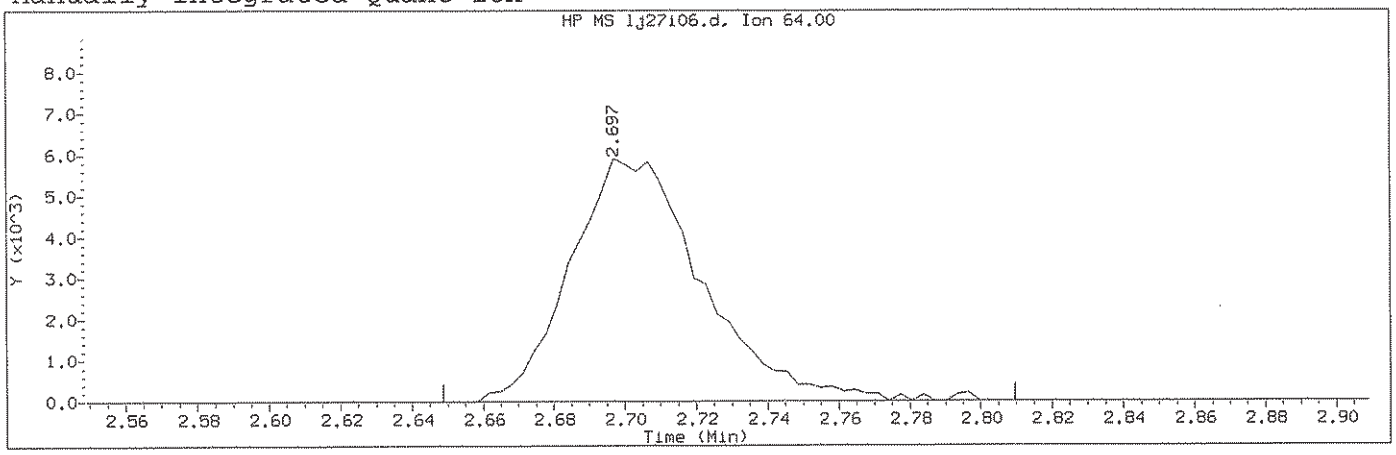
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

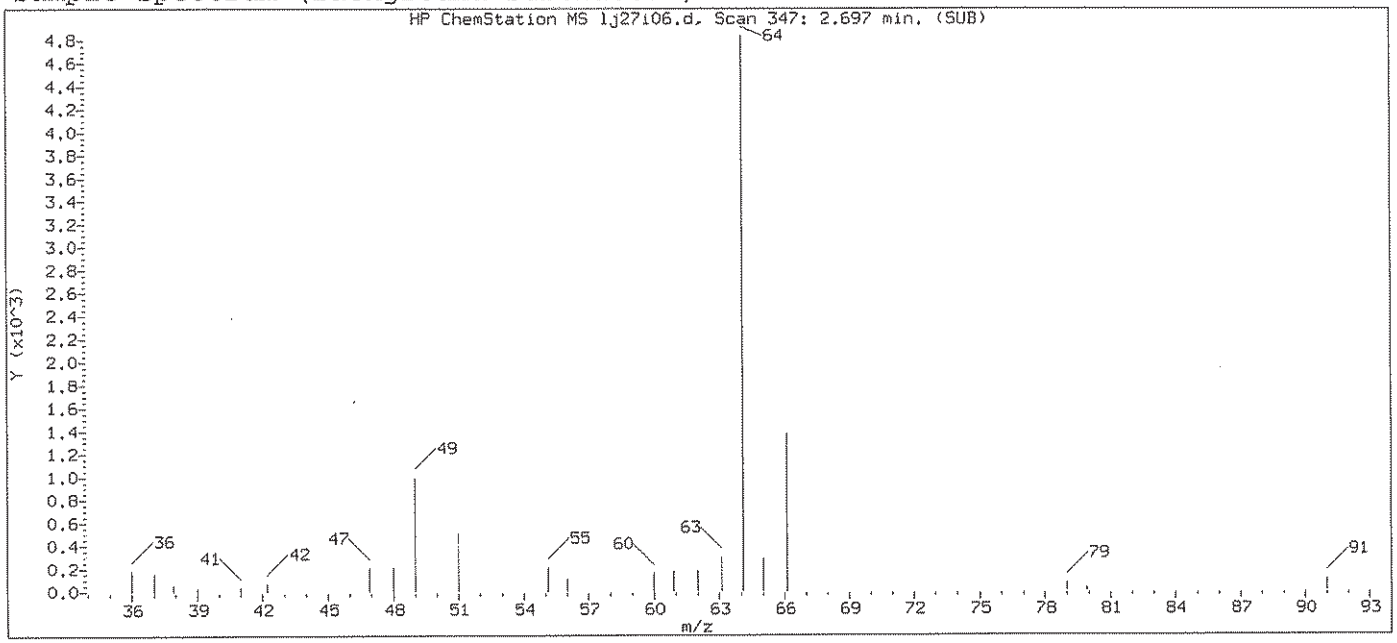
Compound Number	: 9		
Compound Name	: Chloroethane		
Scan Number	: 347		
Retention Time (minutes)	: 2.697		
Quant Ion	: 64.00		
Area (flag)	: 15242M		
On-Column Amount (ng)	: 4.1518		
Integration start scan	: 331	Integration stop scan:	381
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

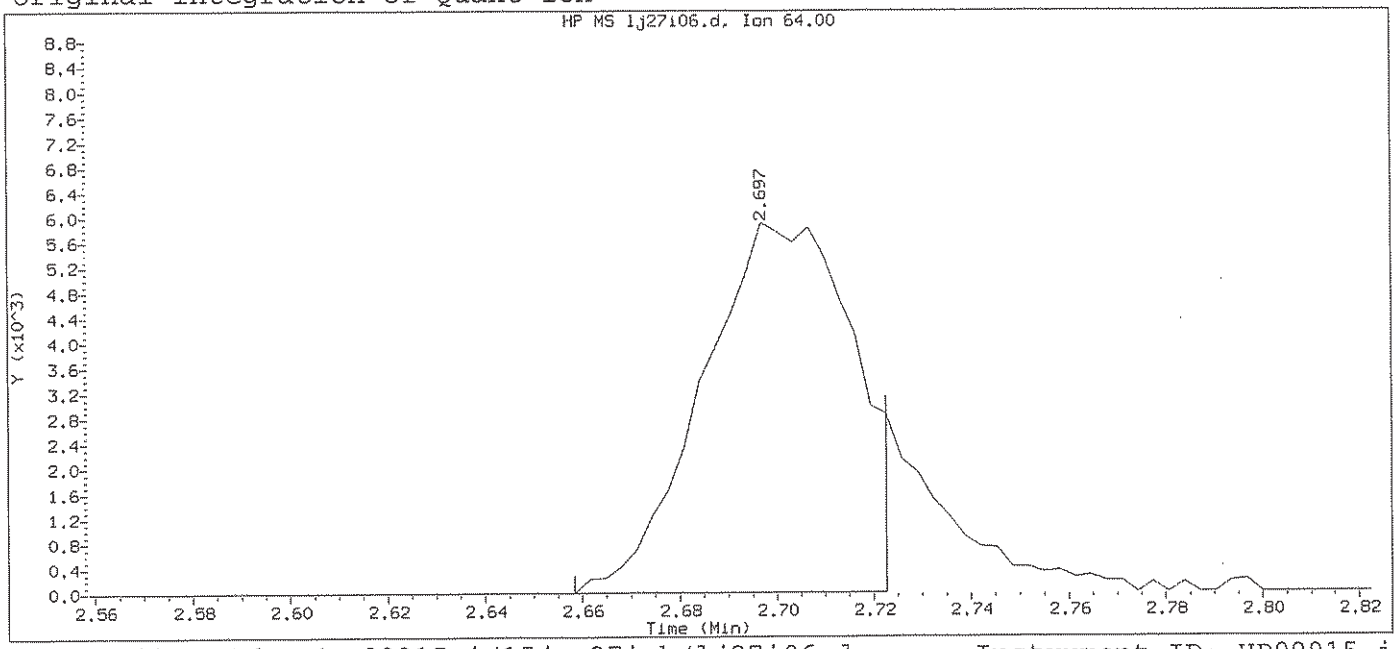
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 9		
Compound Name	: Chloroethane		
Scan Number	: 347		
Retention Time (minutes)	: 2.697		
Quant Ion	: 64.00		
Area	: 12610		
On-column Amount (ng)	: 3.6099		
Integration start scan	: 334	Integration stop scan:	354
Y at integration start	: 0	Y at integration end:	0

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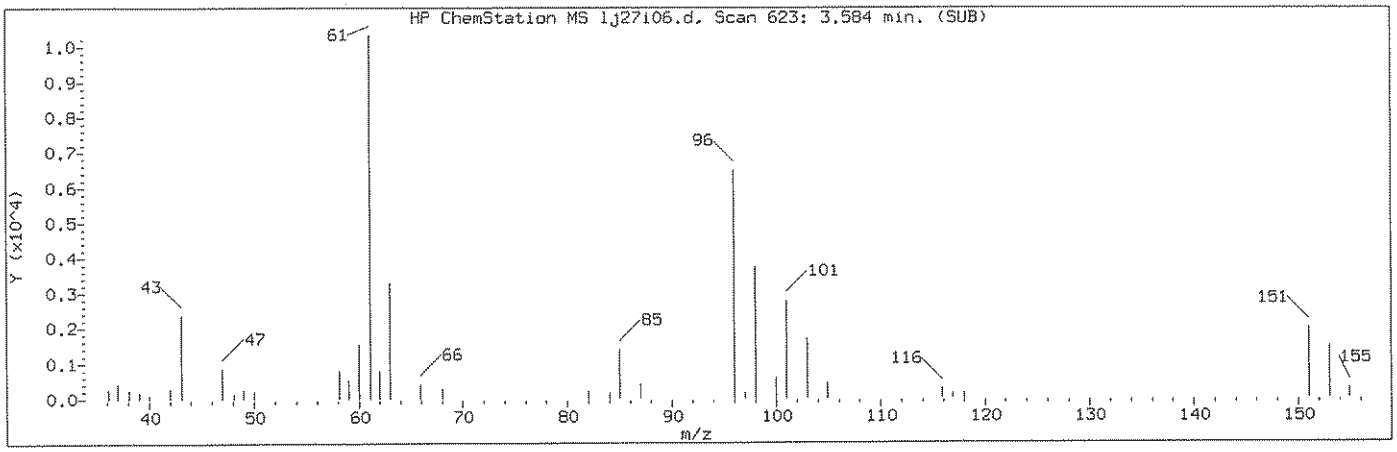
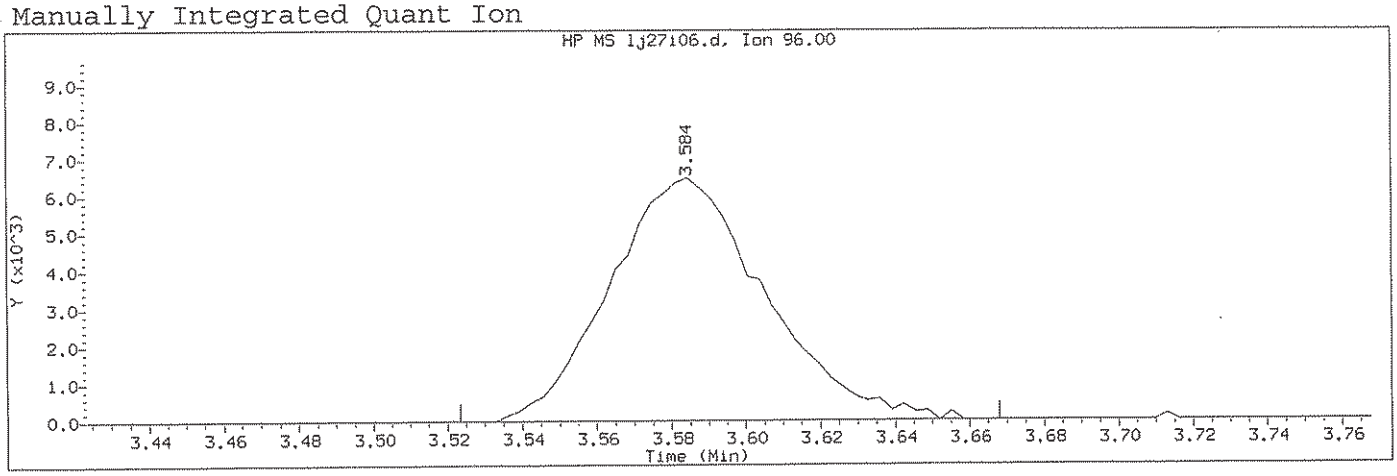
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

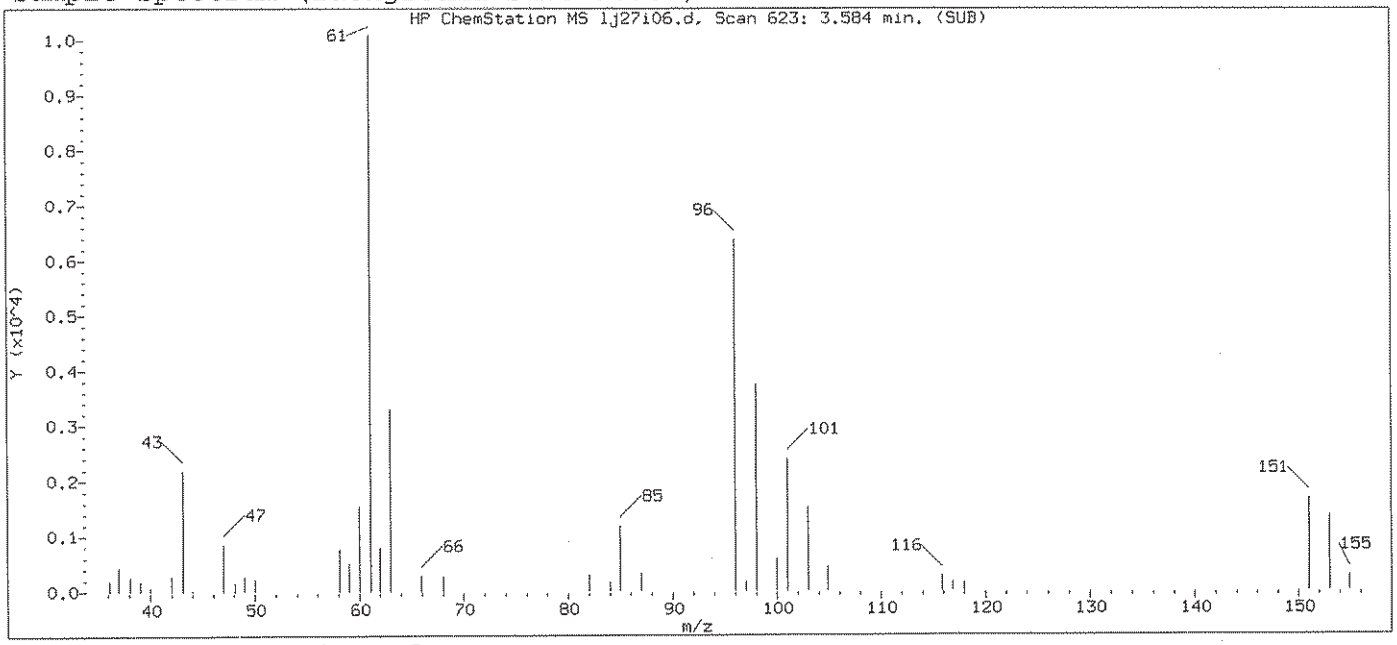
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 623		
Retention Time (minutes)	: 3.584		
Quant Ion	: 96.00		
Area (flag)	: 18758M		
On-Column Amount (ng)	: 3.8061		
Integration start scan	: 603	Integration stop scan:	648
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

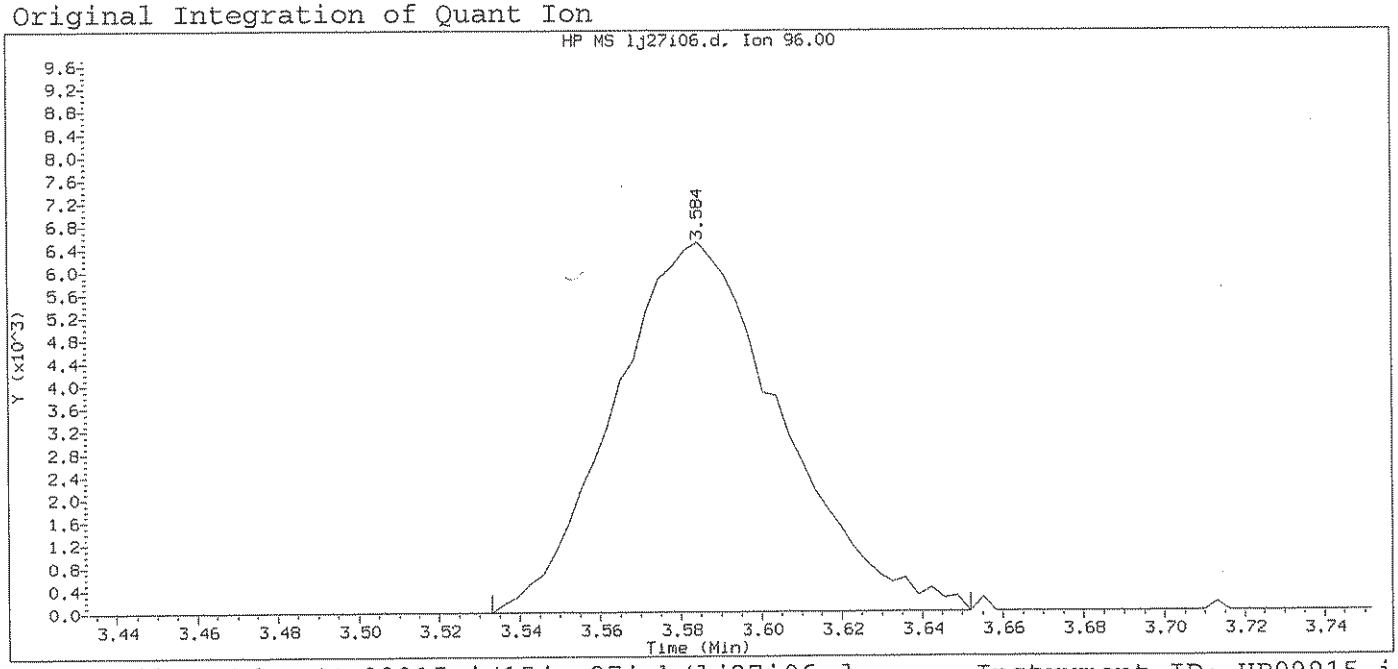
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

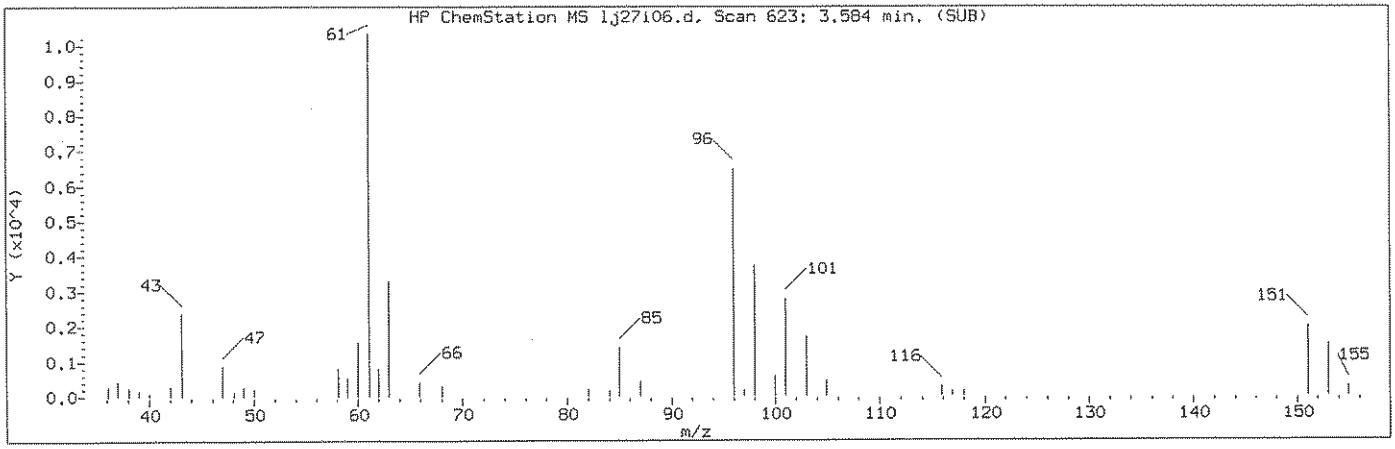
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

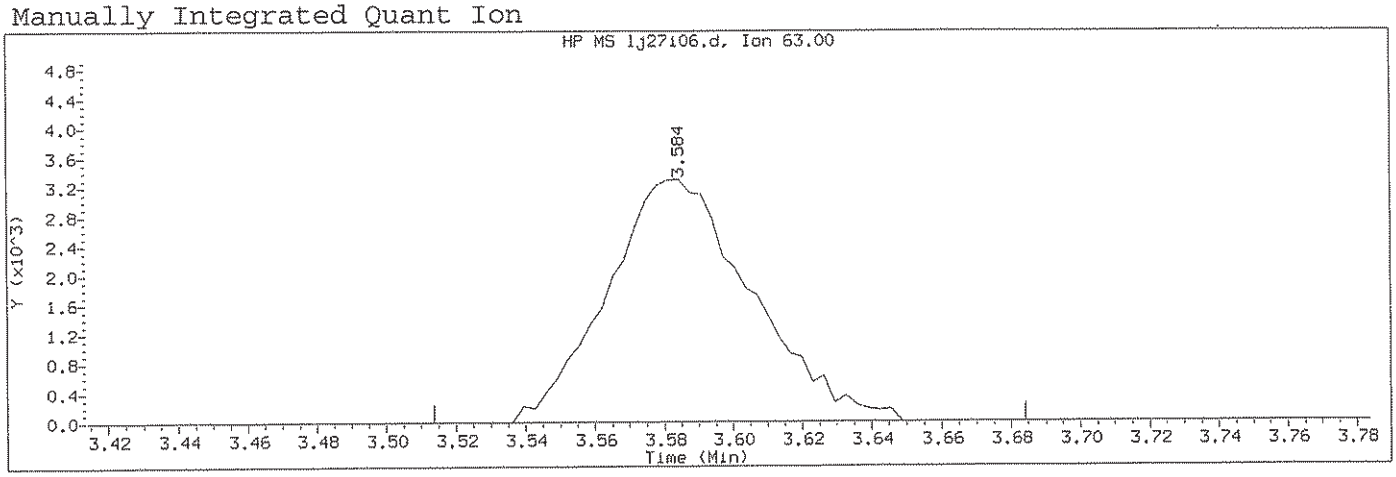
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 623		
Retention Time (minutes)	: 3.584		
Quant Ion	: 96.00		
Area	: 18711		
On-column Amount (ng)	: 3.7911		
Integration start scan	: 606	Integration stop scan:	643
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

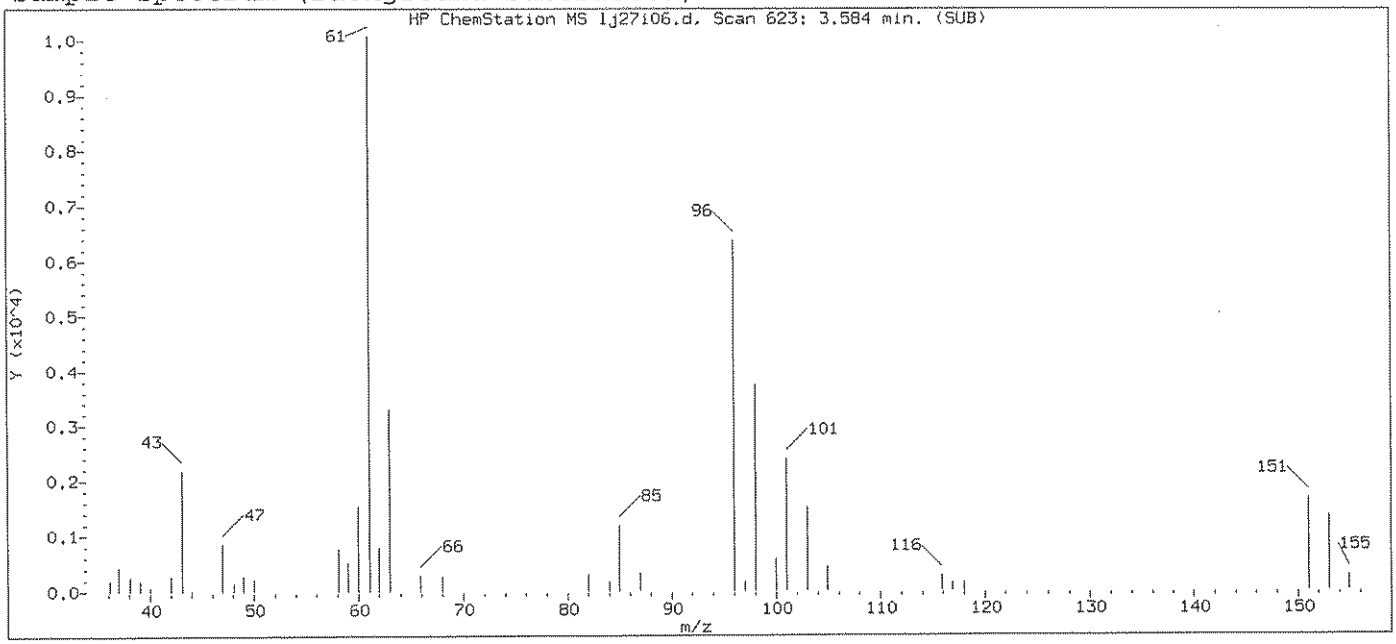
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 623		
Retention Time (minutes)	: 3.584		
Quant Ion	: 63.00		
Area (flag)	: 9589M		
On-Column Amount (ng)	: 3.8306		
Integration start scan	: 600	Integration stop scan:	653
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

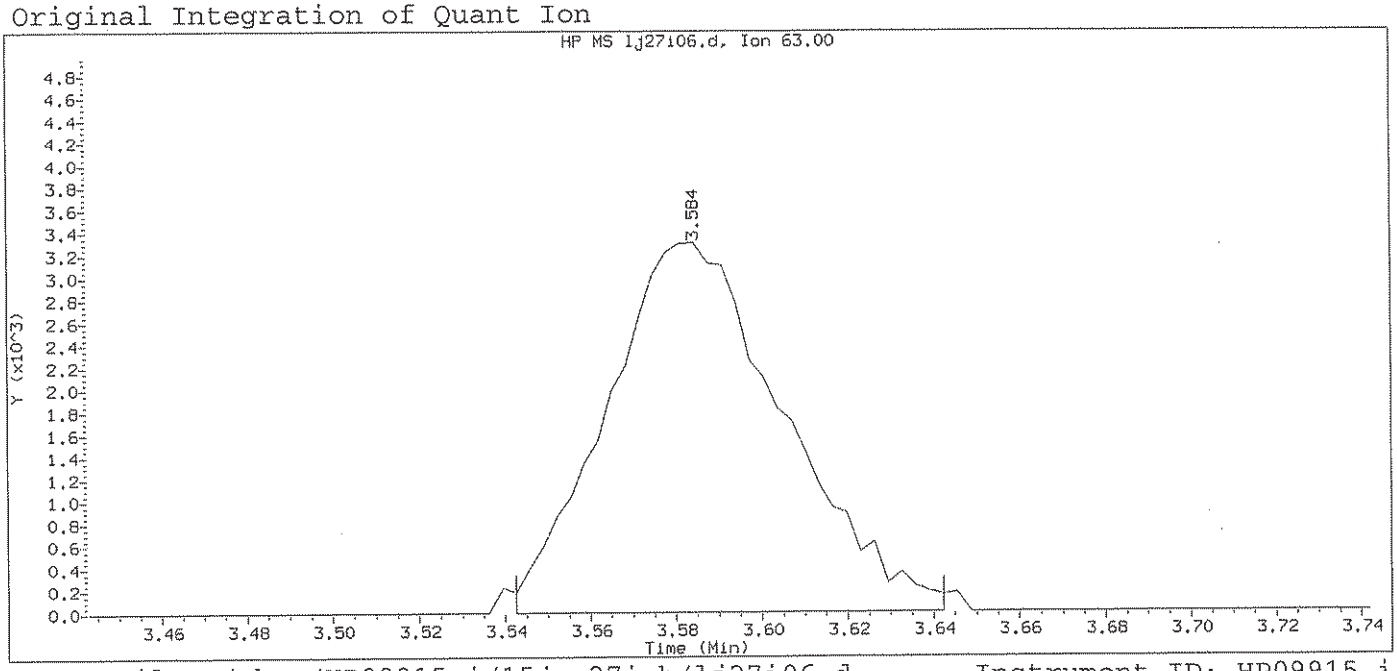
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

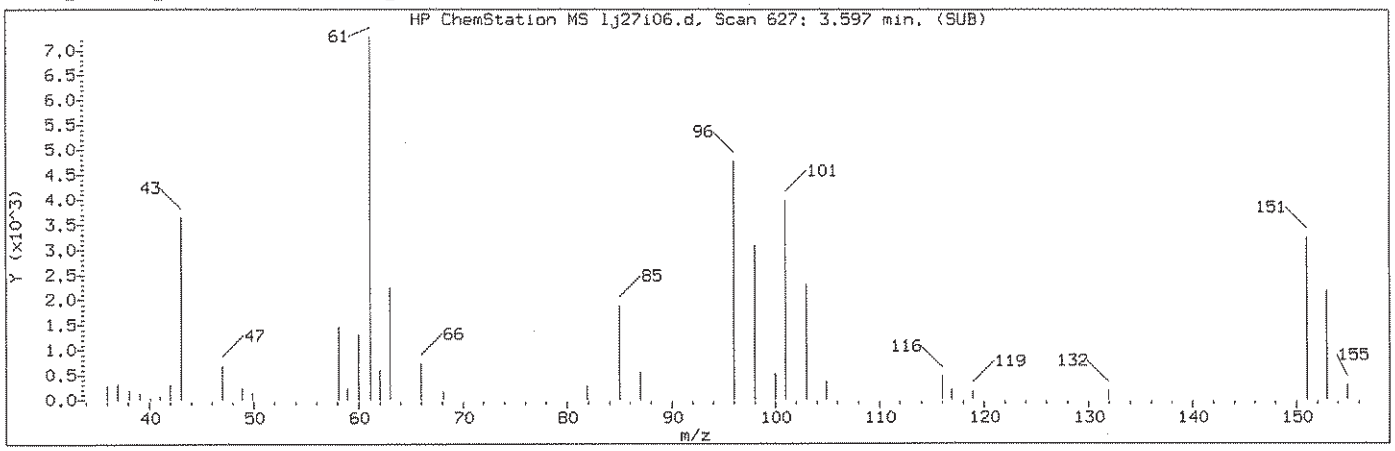
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

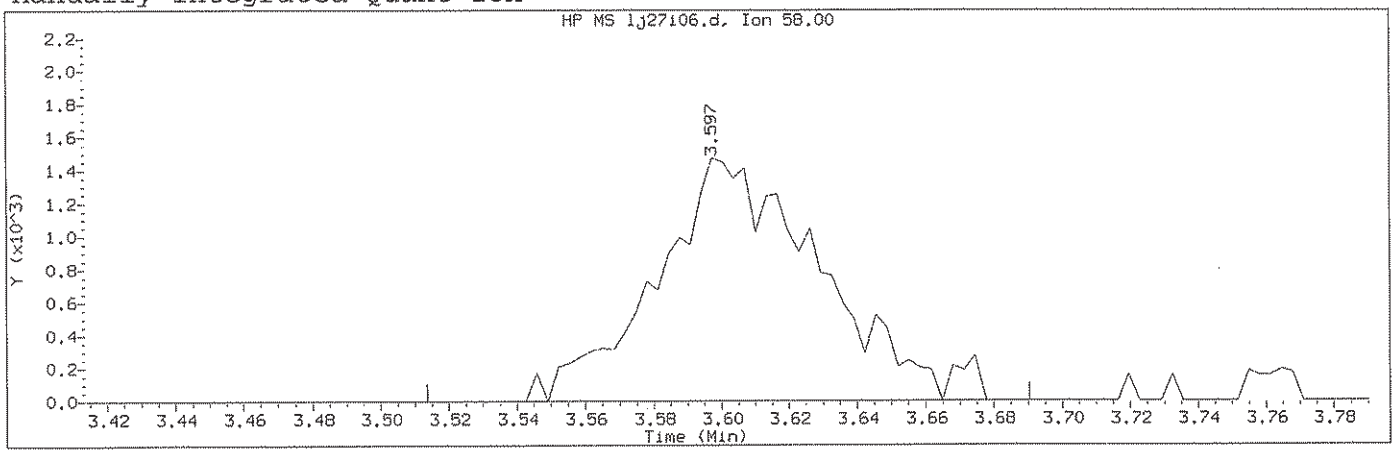
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 623		
Retention Time (minutes)	: 3.584		
Quant Ion	: 63.00		
Area	: 9479		
On-column Amount (ng)	: 3.7808		
Integration start scan	: 609	Integration stop scan:	640
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

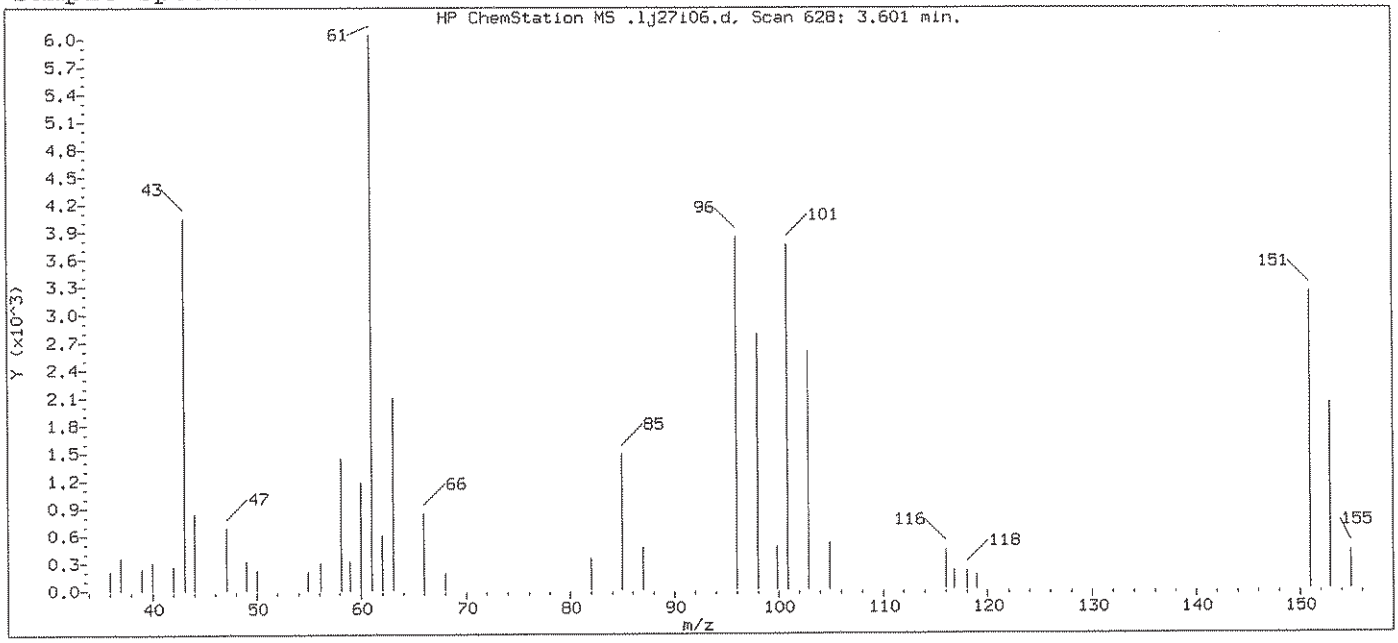
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 627		
Retention Time (minutes)	: 3.597		
Quant Ion	: 58.00		
Area (flag)	: 4995M		
On-Column Amount (ng)	: 7.5640		
Integration start scan	: 600	Integration stop scan:	655
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

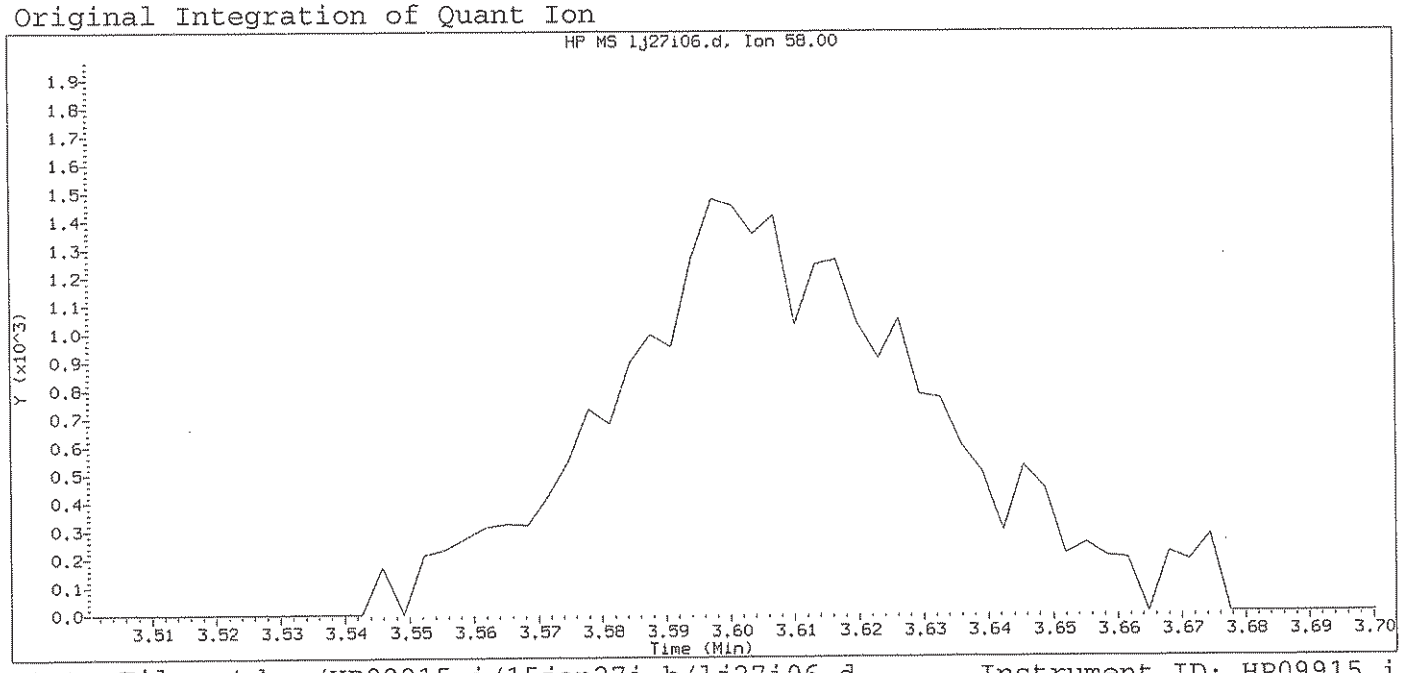
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

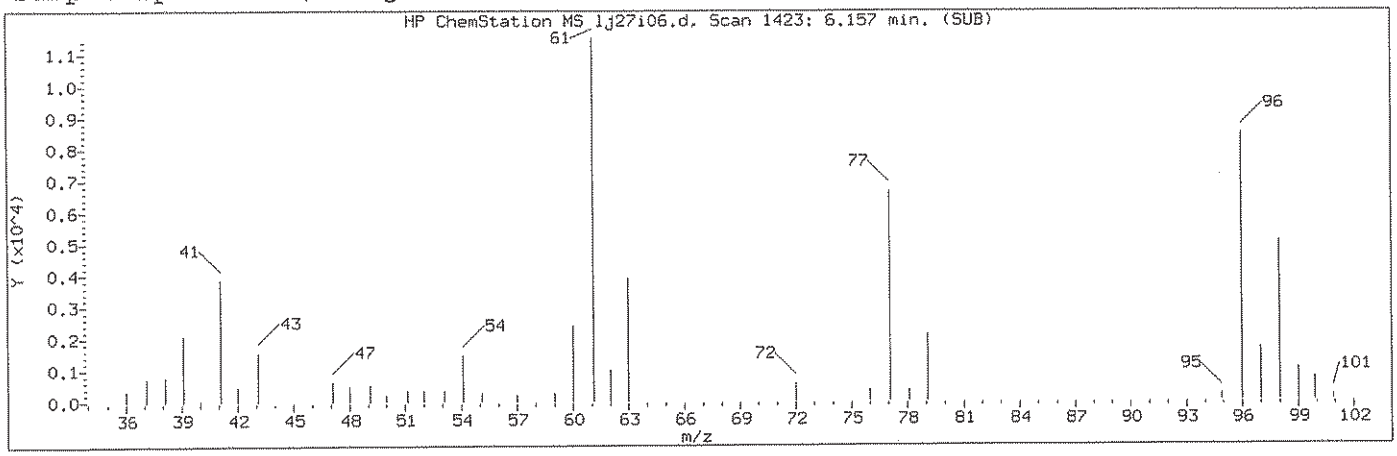
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

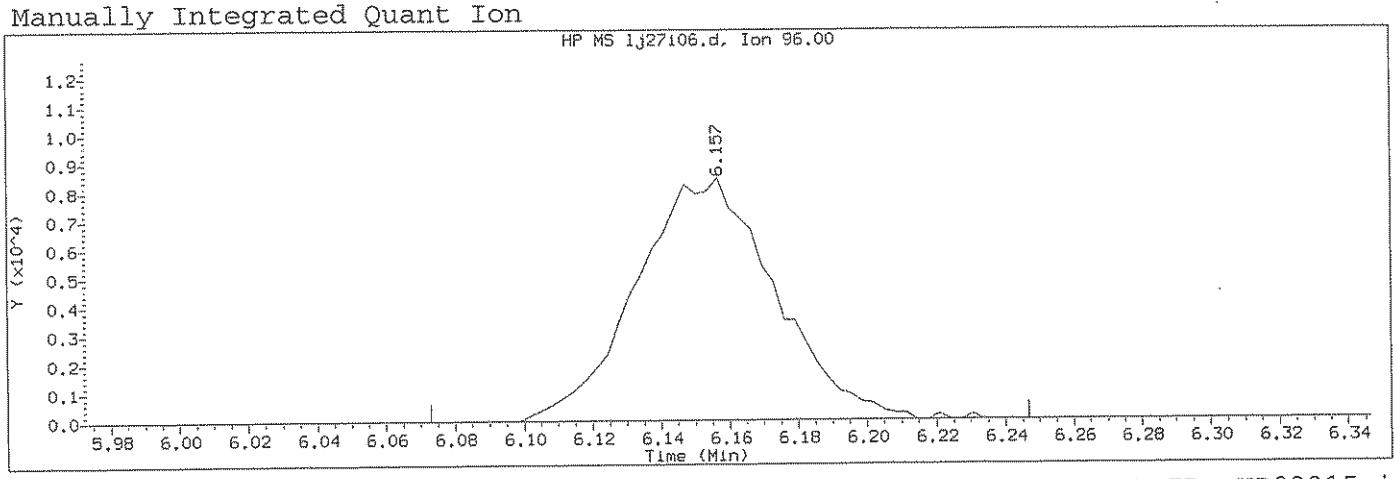
Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

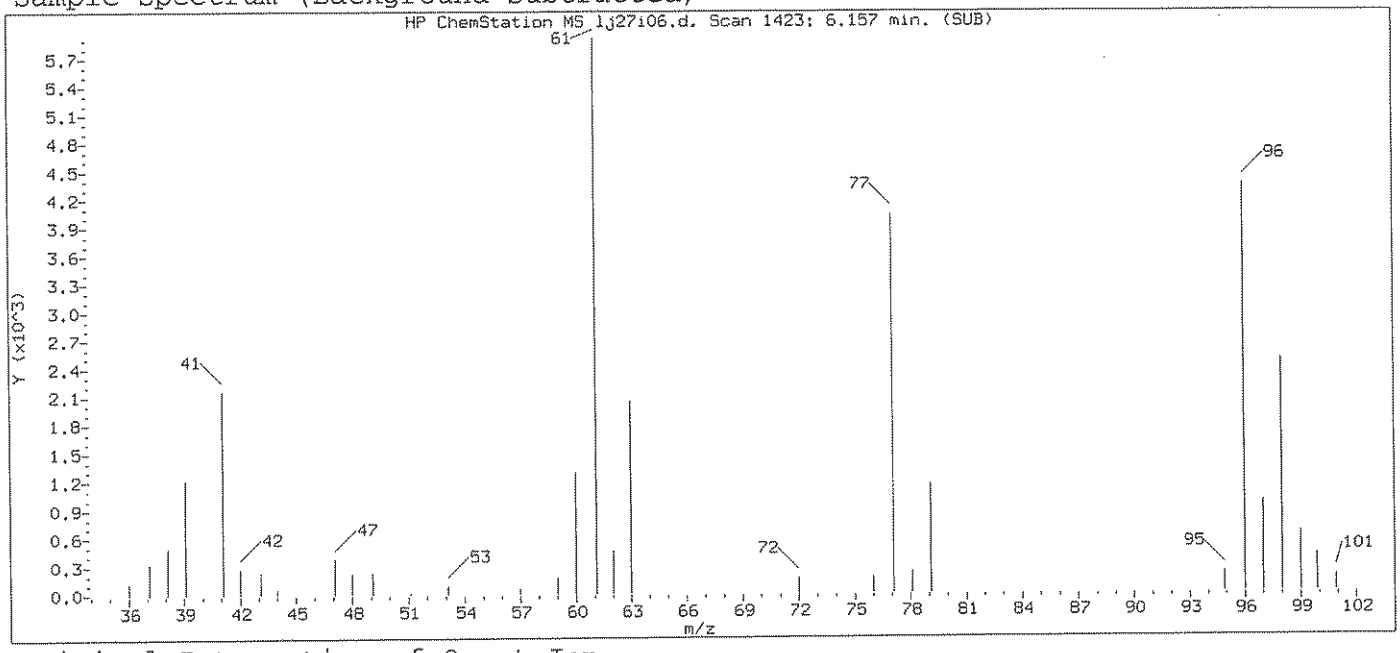
Compound Number	: 42		
Compound Name	: cis-1,2-Dichloroethene		
Scan Number	: 1423		
Retention Time (minutes)	: 6.157		
Quant Ion	: 96.00		
Area (flag)	: 23770M		
On-Column Amount (ng)	: 3.8556		
Integration start scan	: 1396	Integration stop scan:	1450
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

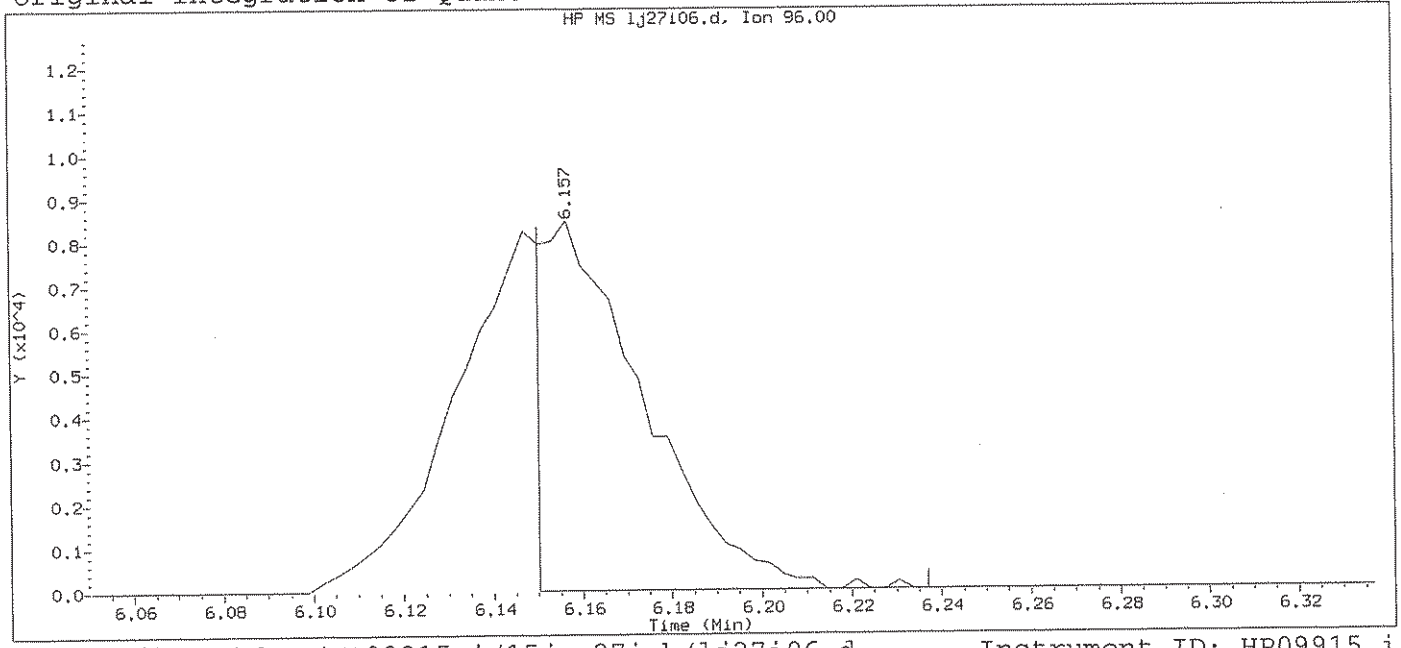
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 42		
Compound Name	: cis-1,2-Dichloroethene		
Scan Number	: 1423		
Retention Time (minutes)	: 6.157		
Quant Ion	: 96.00		
Area	: 13398		
On-column Amount (ng)	: 2.4357		
Integration start scan	: 1420	Integration stop scan:	1447
Y at integration start	: 0	Y at integration end:	0

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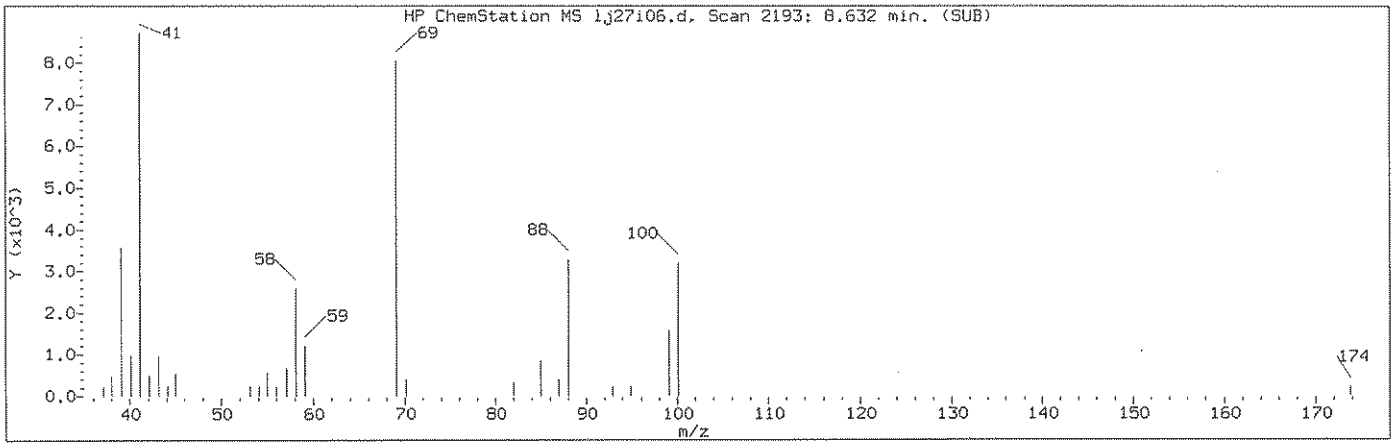
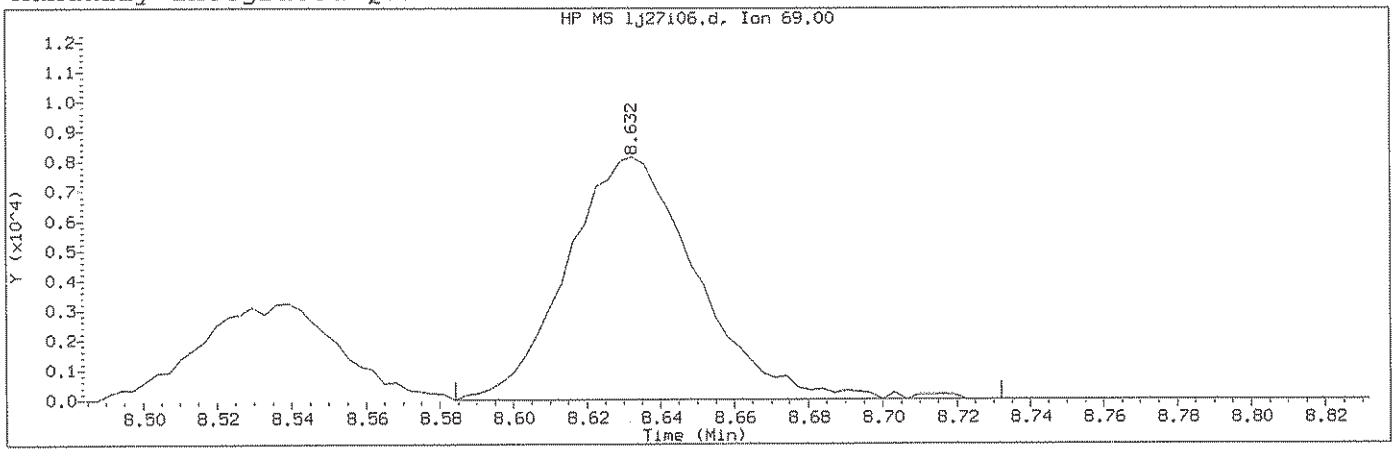
Target 3.5 esignature used. TIC: Page03074

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

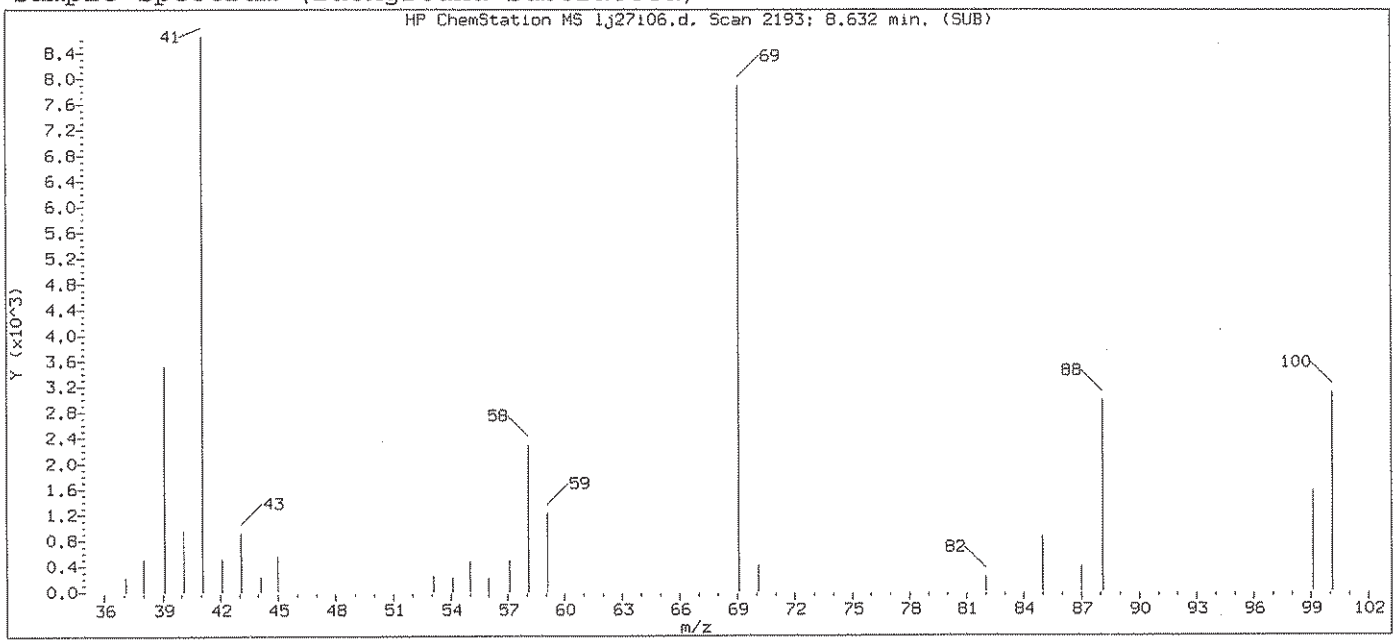
Compound Number : 76
Compound Name : Methyl Methacrylate
Scan Number : 2193
Retention Time (minutes): 8.632
Quant Ion : 69.00
Area (flag) : 19956M
On-Column Amount (ng) : 3.7472
Integration start scan : 2177 Integration stop scan: 2223
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

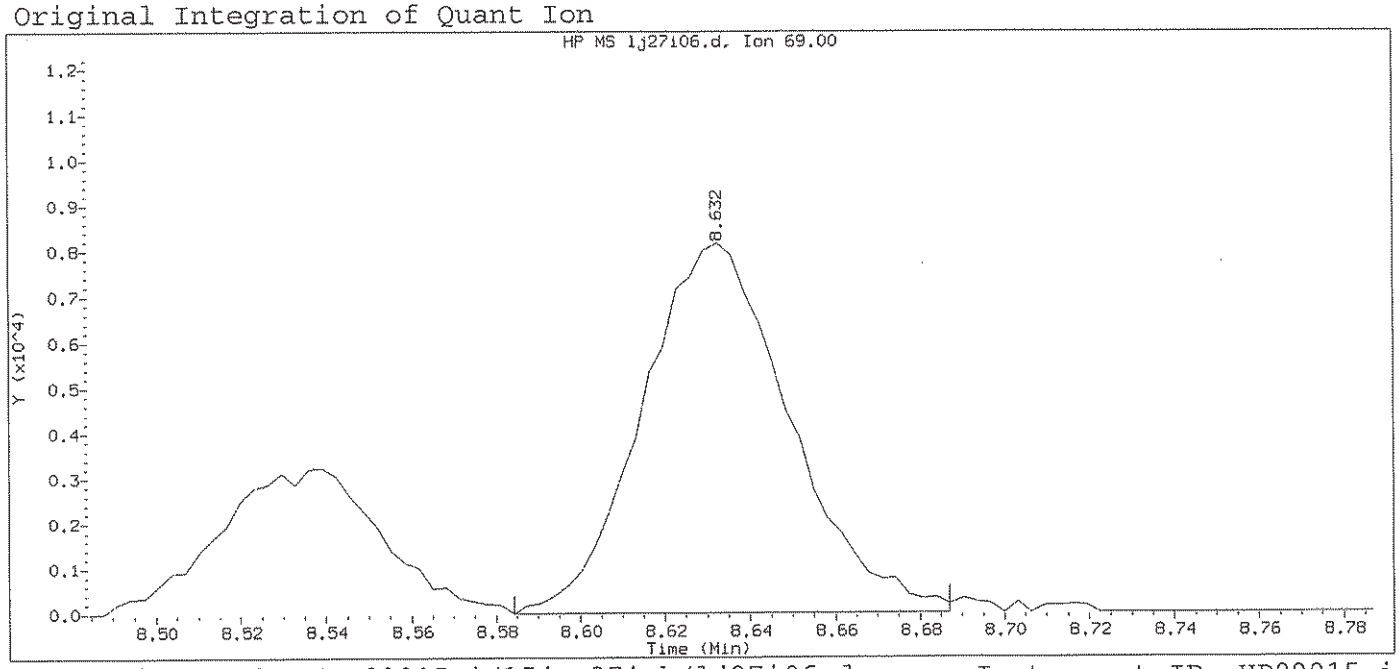
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

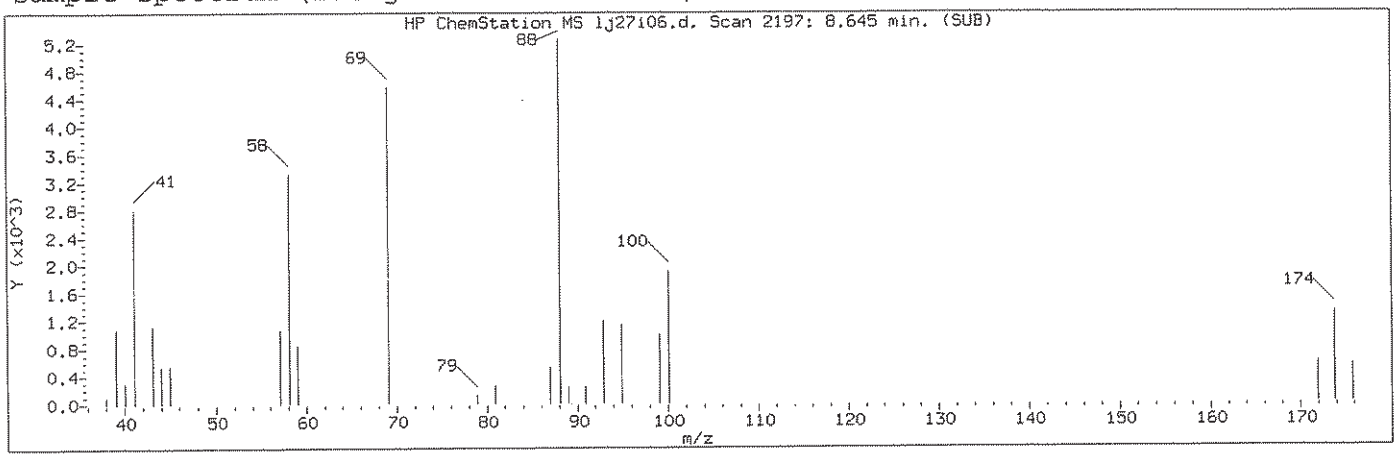
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

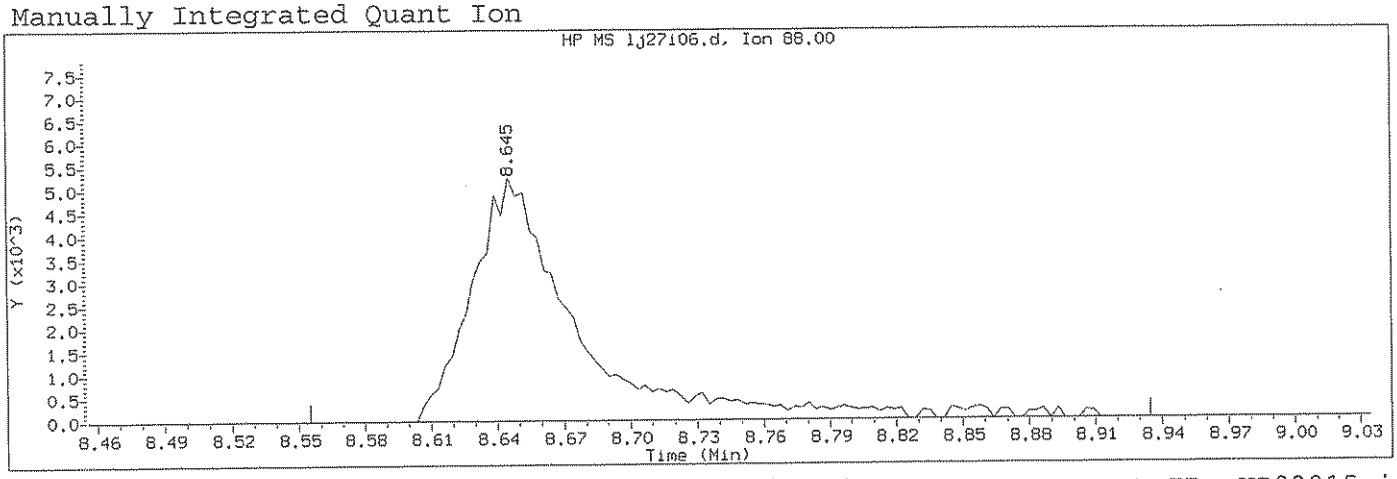
Compound Number	: 76		
Compound Name	: Methyl Methacrylate		
Scan Number	: 2193		
Retention Time (minutes)	: 8.632		
Quant Ion	: 69.00		
Area	: 19615		
On-column Amount (ng)	: 3.5960		
Integration start scan	: 2177	Integration stop scan:	2209
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

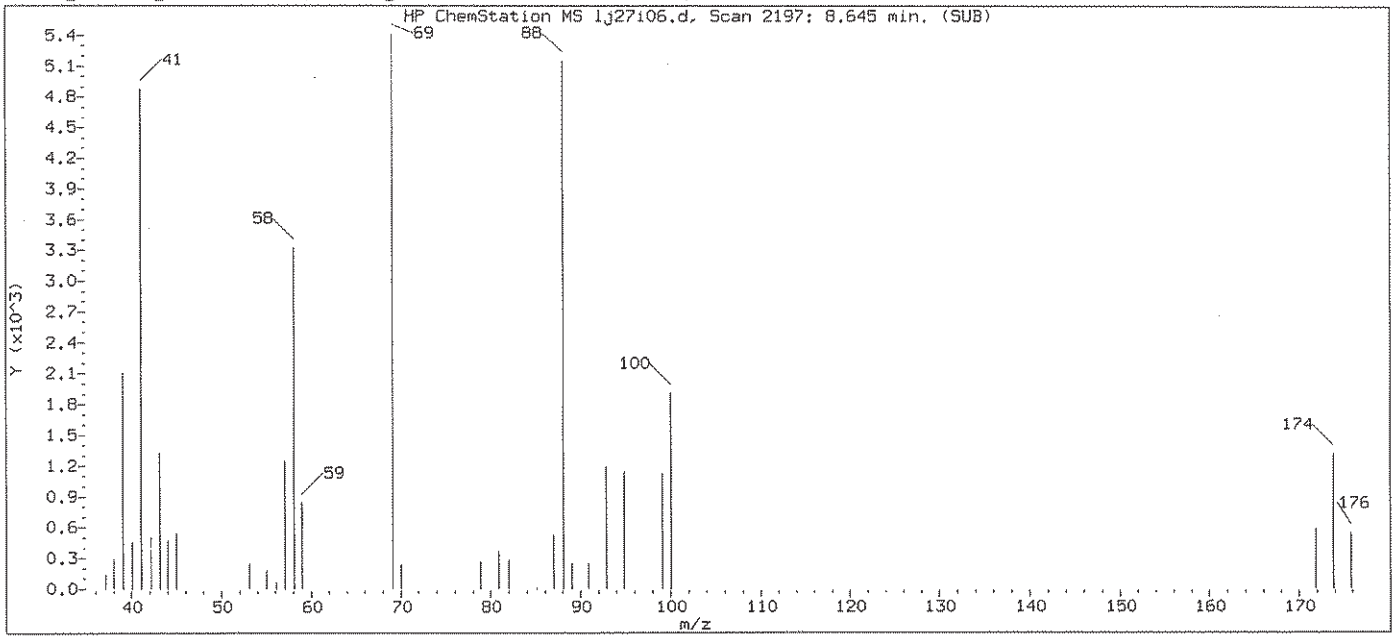
Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2197		
Retention Time (minutes)	: 8.645		
Quant Ion	: 88.00		
Area (flag)	: 17676M		
On-Column Amount (ng)	: 189.5754		
Integration start scan	: 2168	Integration stop scan:	2286
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

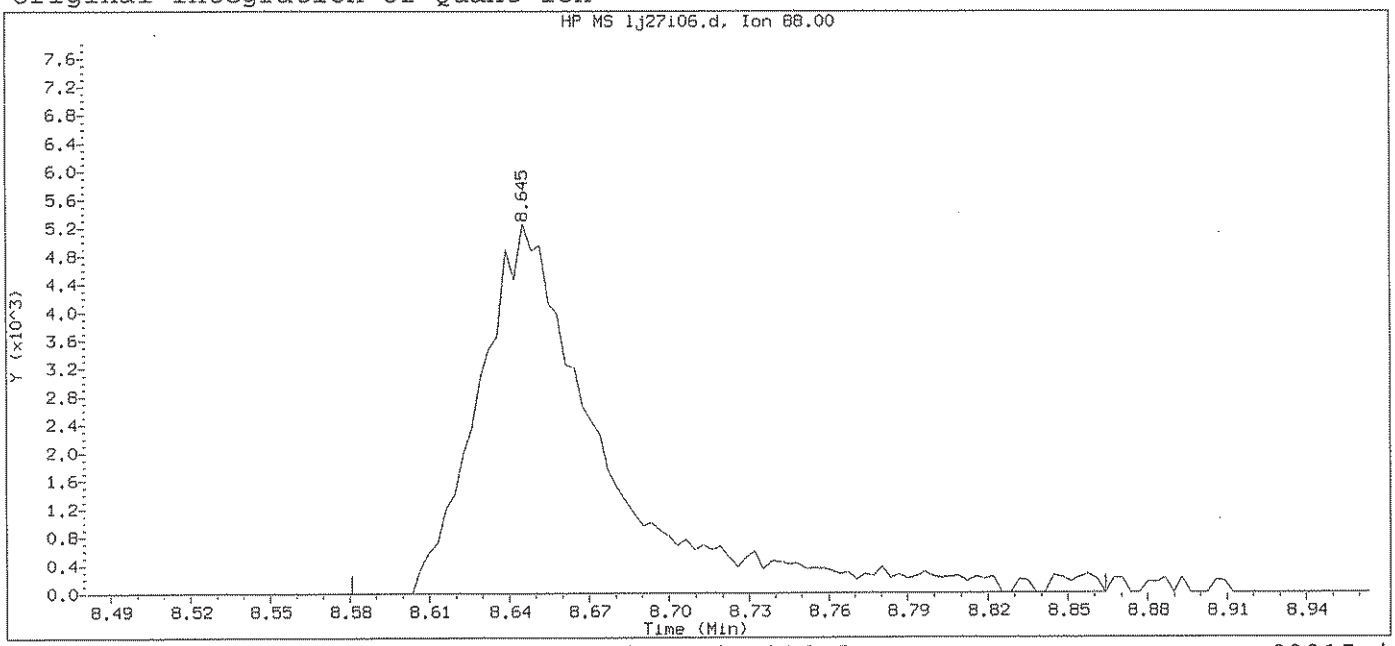
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

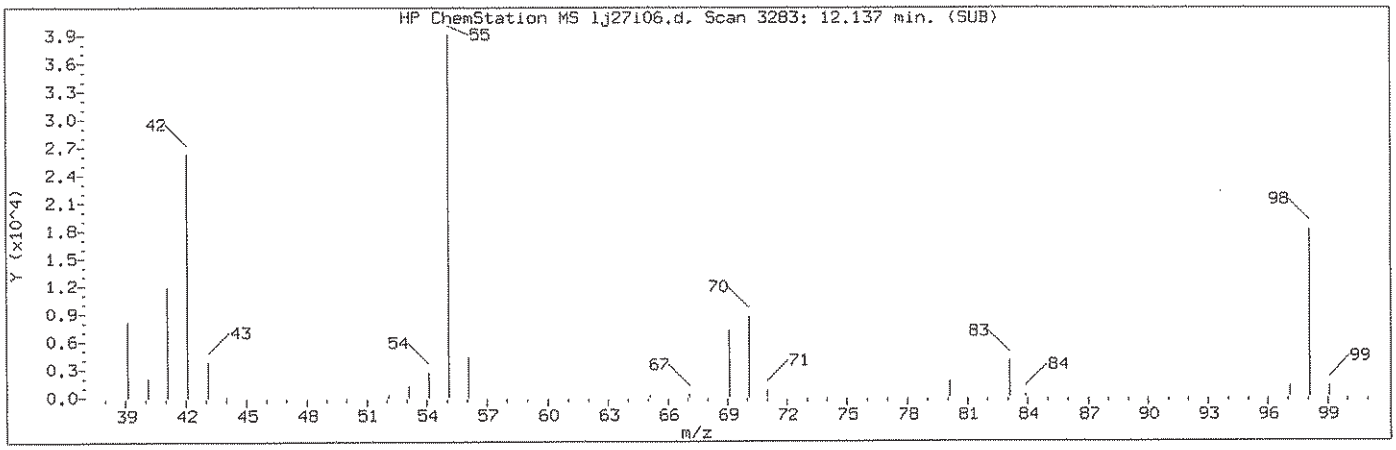
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

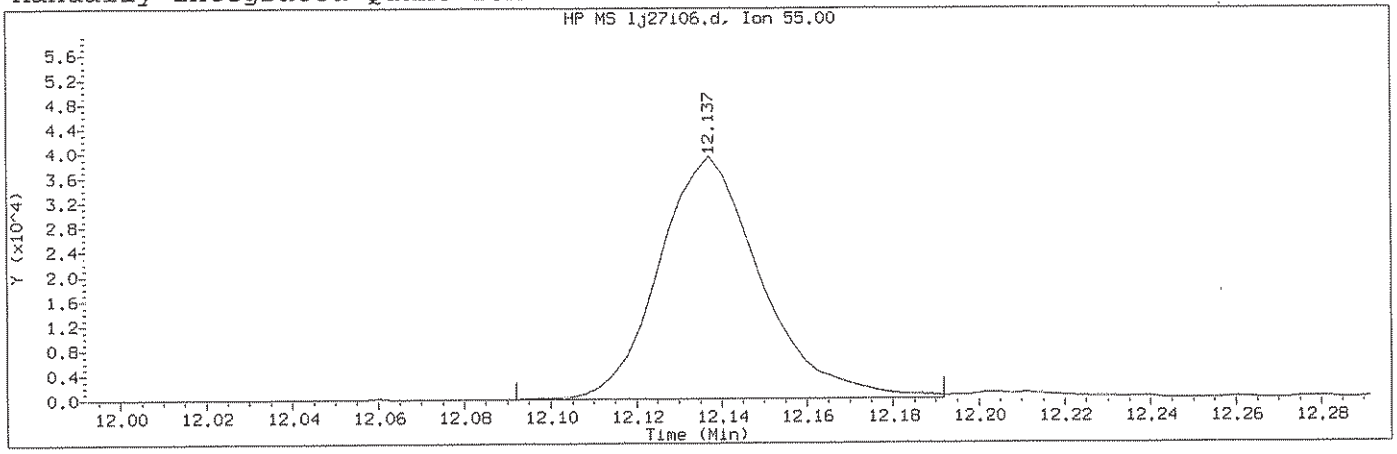
Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2197		
Retention Time (minutes)	: 8.645		
Quant Ion	: 88.00		
Area	: 17388		
On-column Amount (ng)	: 185.4516		
Integration start scan	: 2176	Integration stop scan:	2264
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

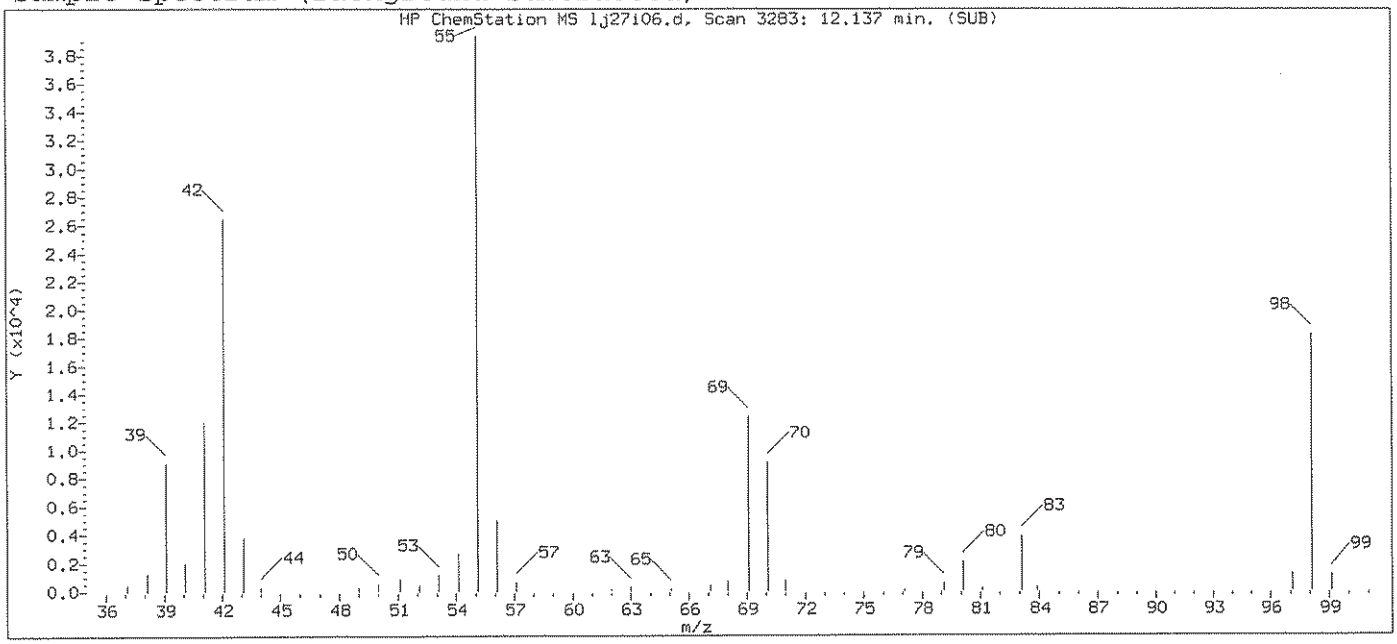
Compound Number	: 112		
Compound Name	: Cyclohexanone		
Scan Number	: 3283		
Retention Time (minutes)	: 12.137		
Quant Ion	: 55.00		
Area (flag)	: 65559M		
On-Column Amount (ng)	: 189.7142		
Integration start scan	: 3268	Integration stop scan:	3299
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

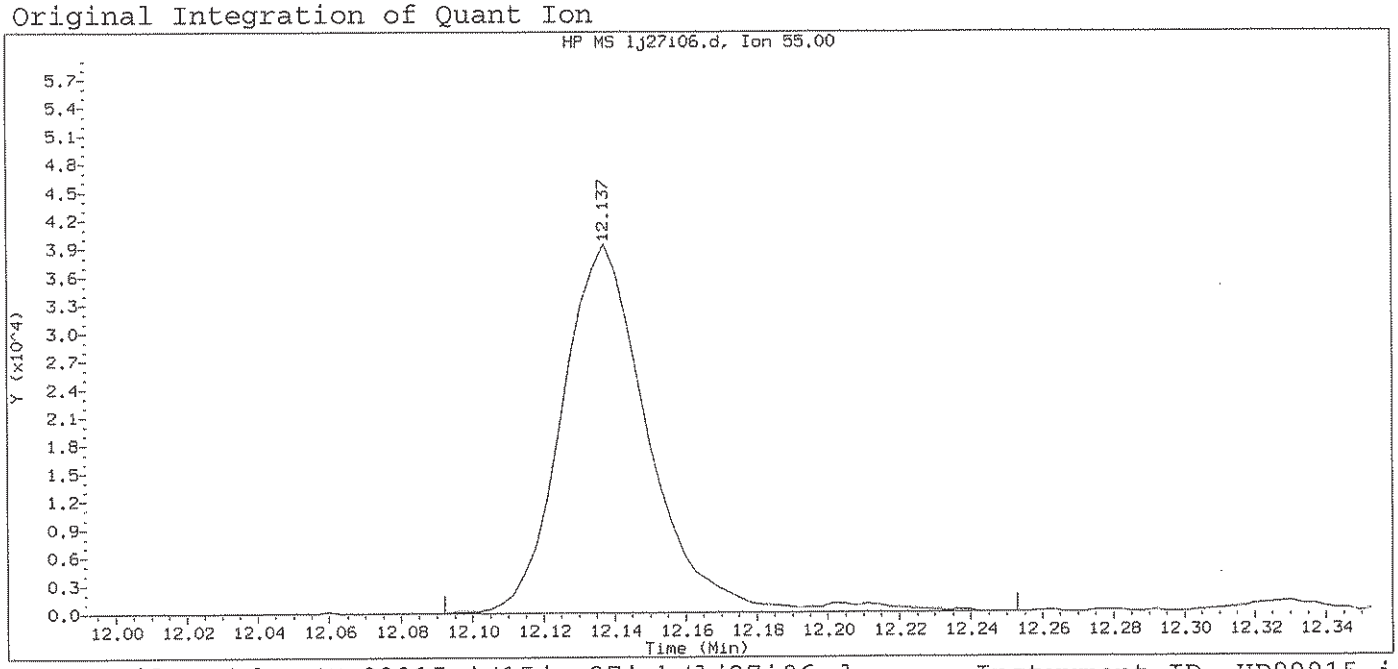
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

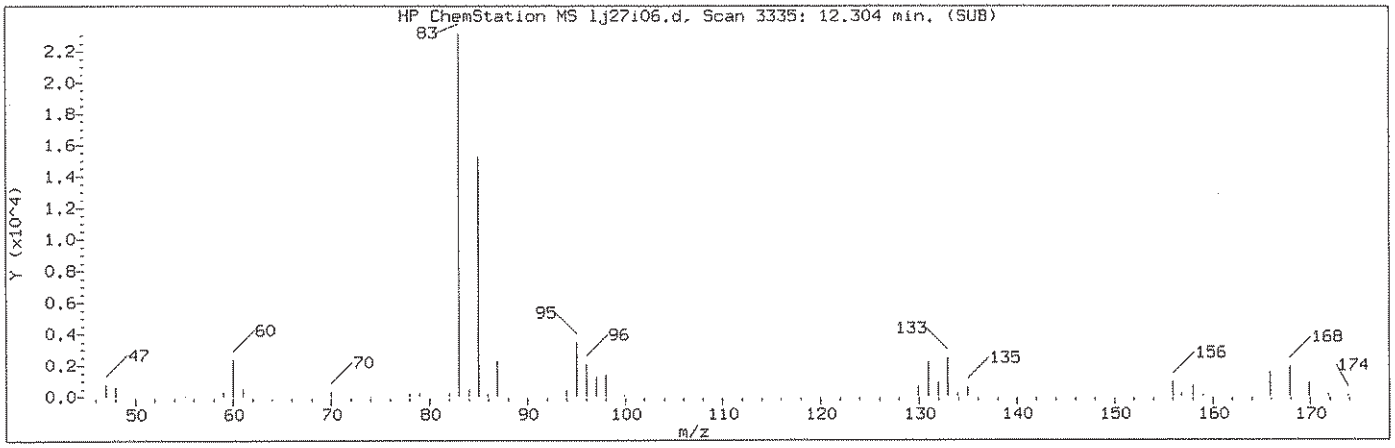
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

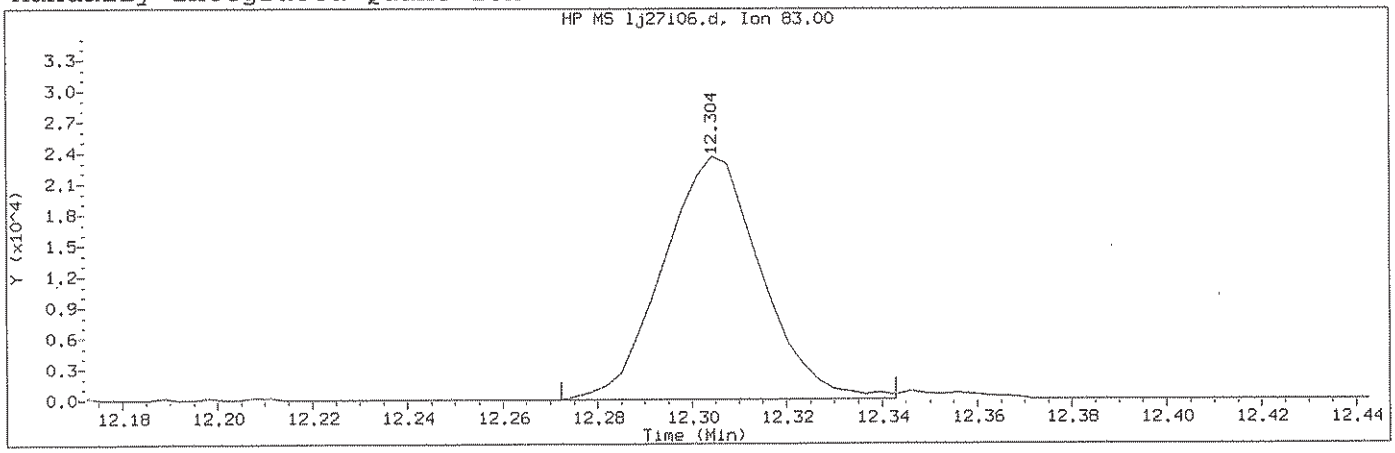
Compound Number	: 112		
Compound Name	: Cyclohexanone		
Scan Number	: 3283		
Retention Time (minutes)	: 12.137		
Quant Ion	: 55.00		
Area	: 67146		
On-column Amount (ng)	: 190.1860		
Integration start scan	: 3268	Integration stop scan:	3318
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

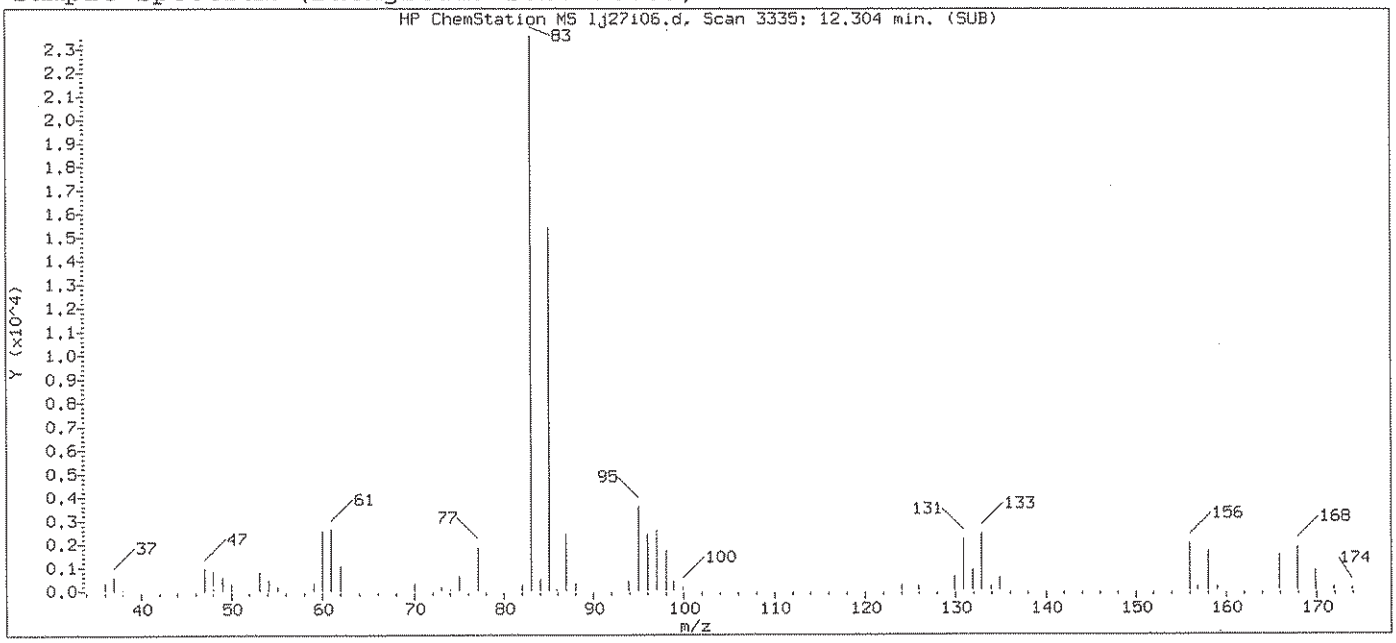
Compound Number : 116
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 3335
Retention Time (minutes): 12.304
Quant Ion : 83.00
Area (flag) : 34091M
On-Column Amount (ng) : 3.8777
Integration start scan : 3324 Integration stop scan: 3346
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

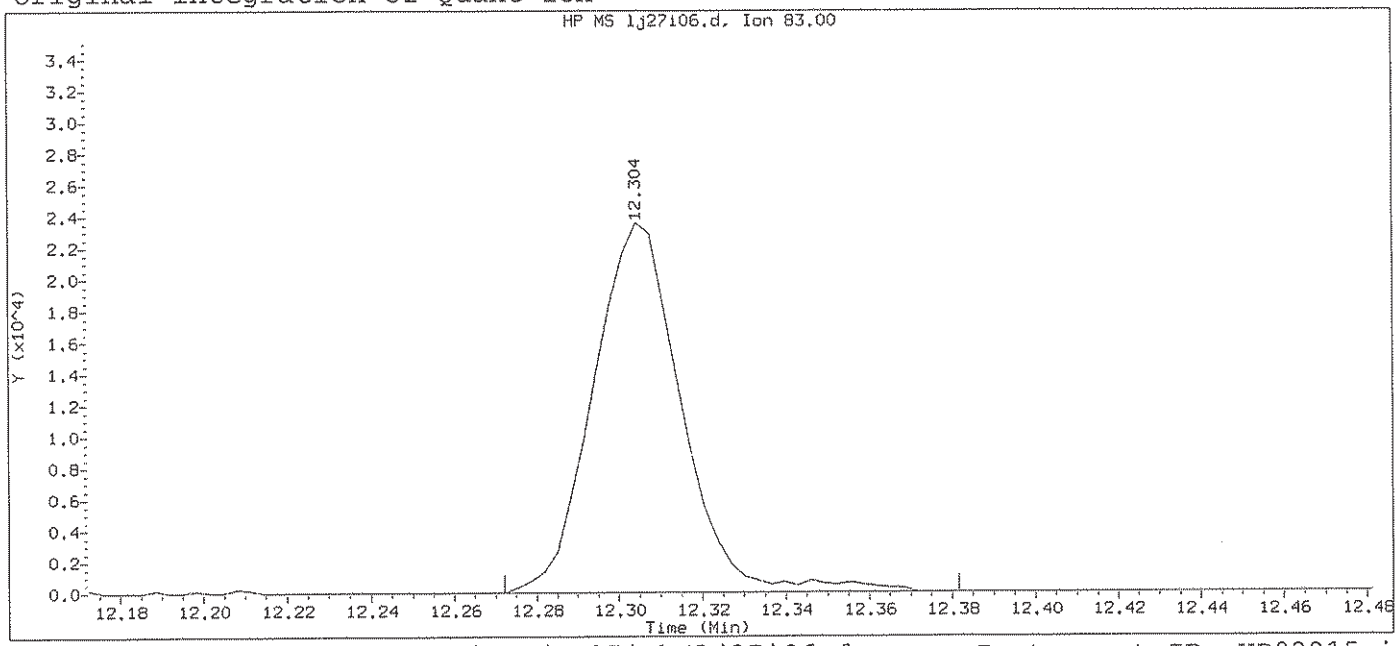
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

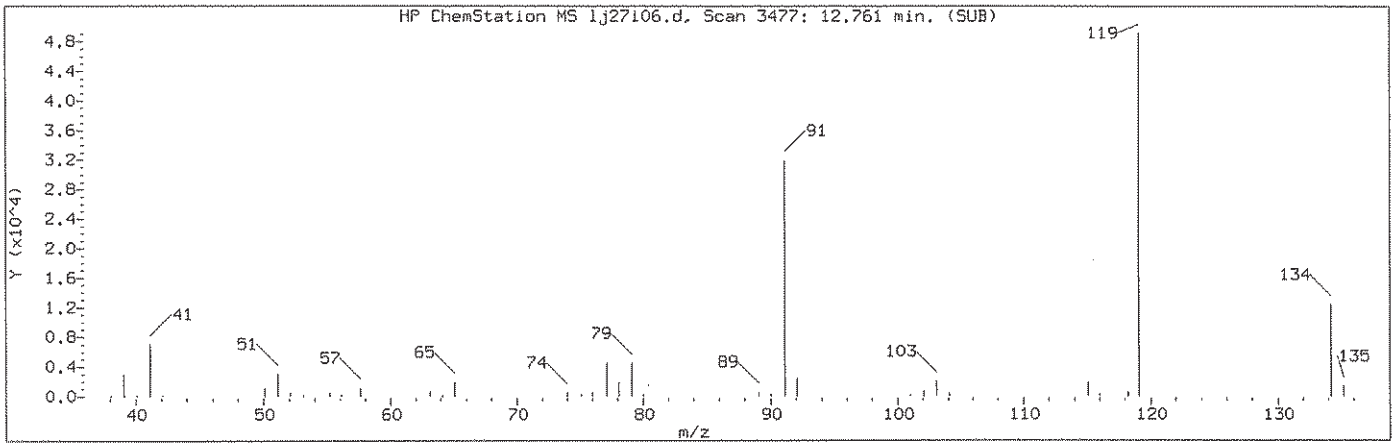
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

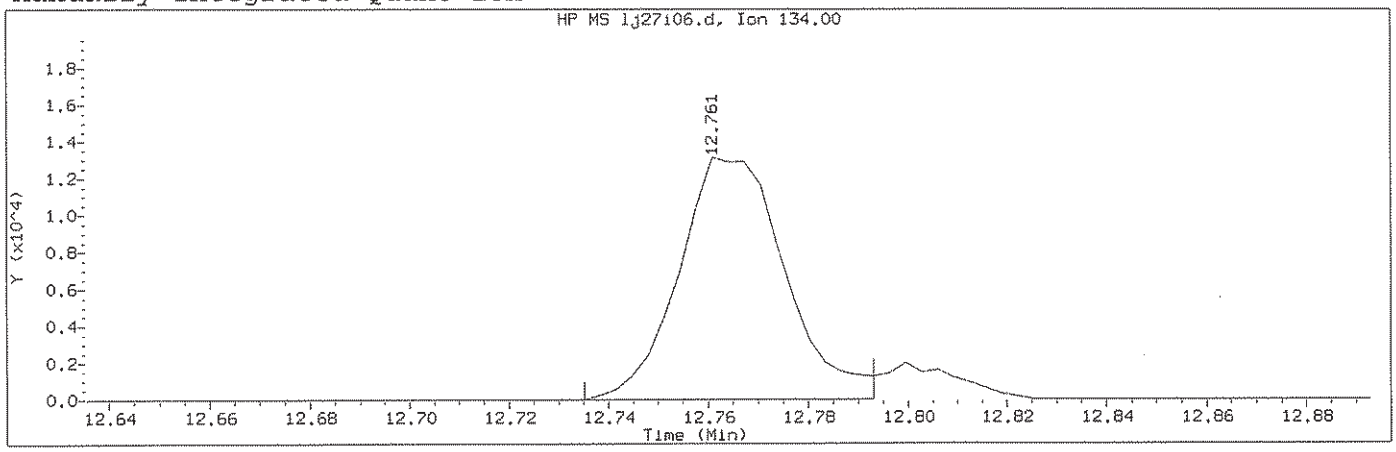
Compound Number	: 116		
Compound Name	: 1,1,2,2-Tetrachloroethane		
Scan Number	: 3335		
Retention Time (minutes)	: 12.304		
Quant Ion	: 83.00		
Area	: 34834		
On-column Amount (ng)	: 3.9159		
Integration start scan	: 3324	Integration stop scan:	3358
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD004 Lab Sample ID: VSTD004

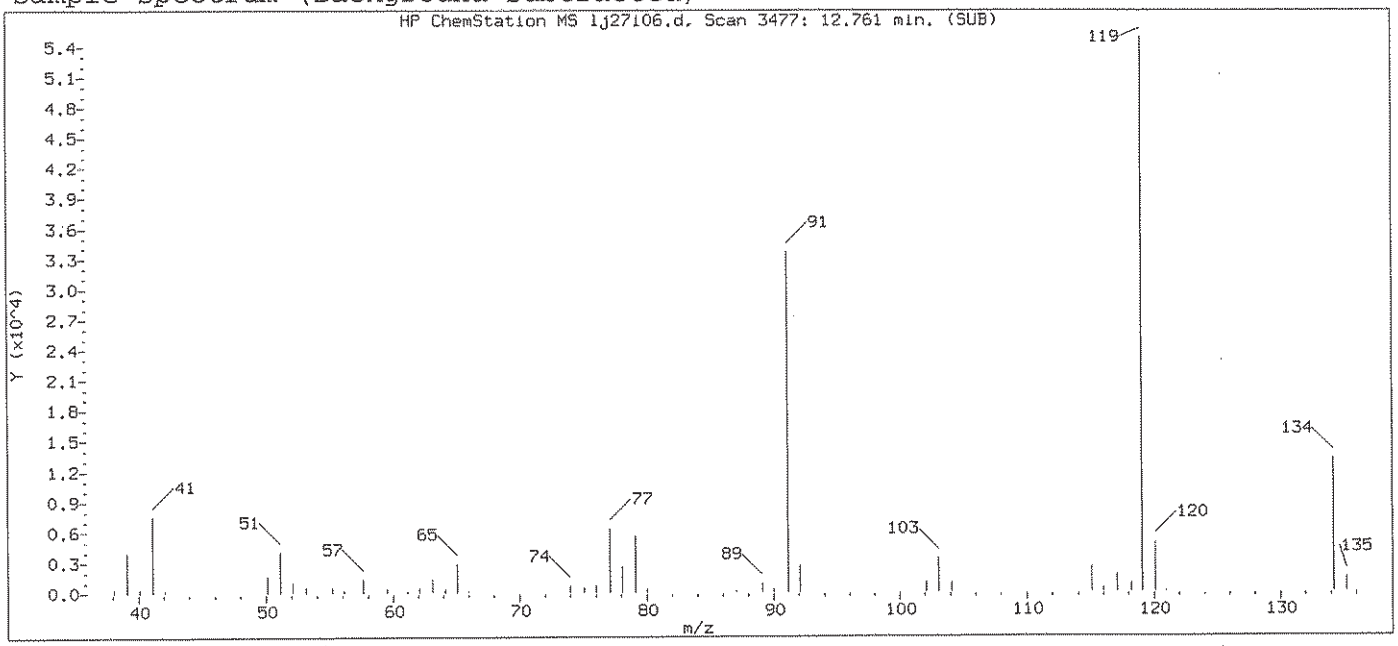
Compound Number : 124
Compound Name : tert-Butylbenzene
Scan Number : 3477
Retention Time (minutes): 12.761
Quant Ion : 134.00
Area (flag) : 19416M
On-Column Amount (ng) : 3.8384
Integration start scan : 3468 Integration stop scan: 3486
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

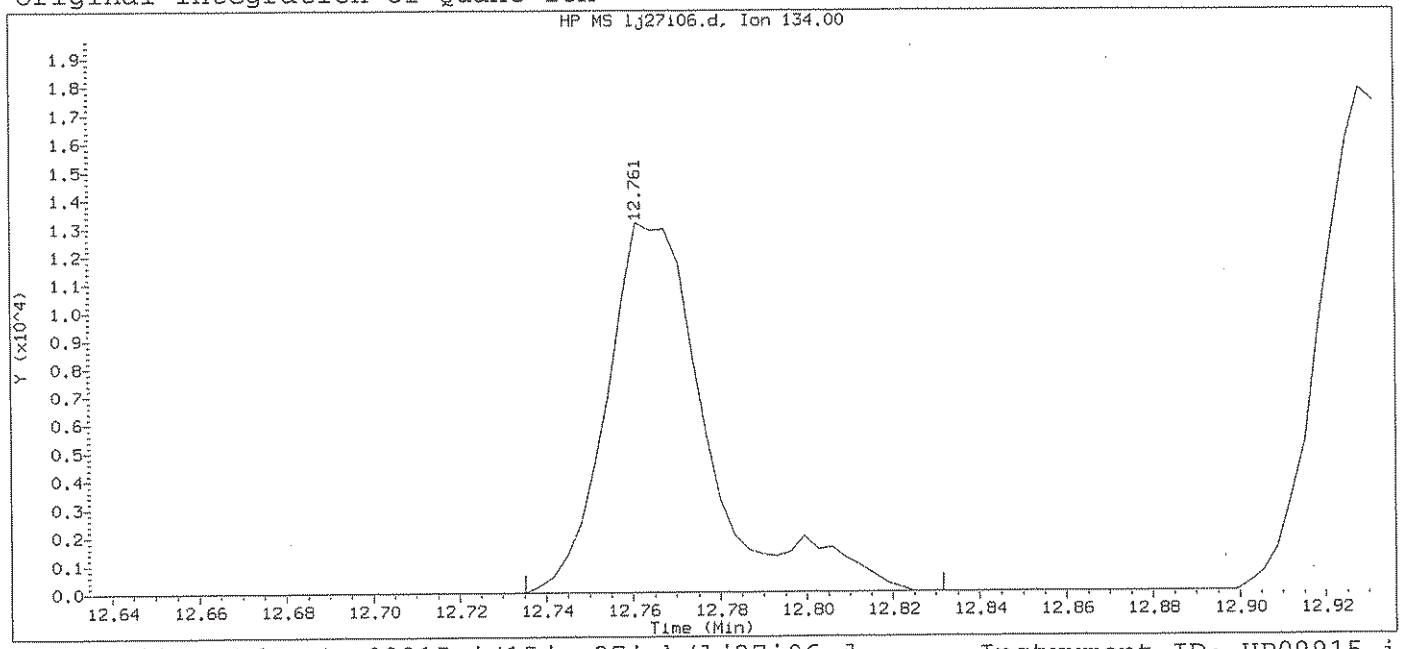
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

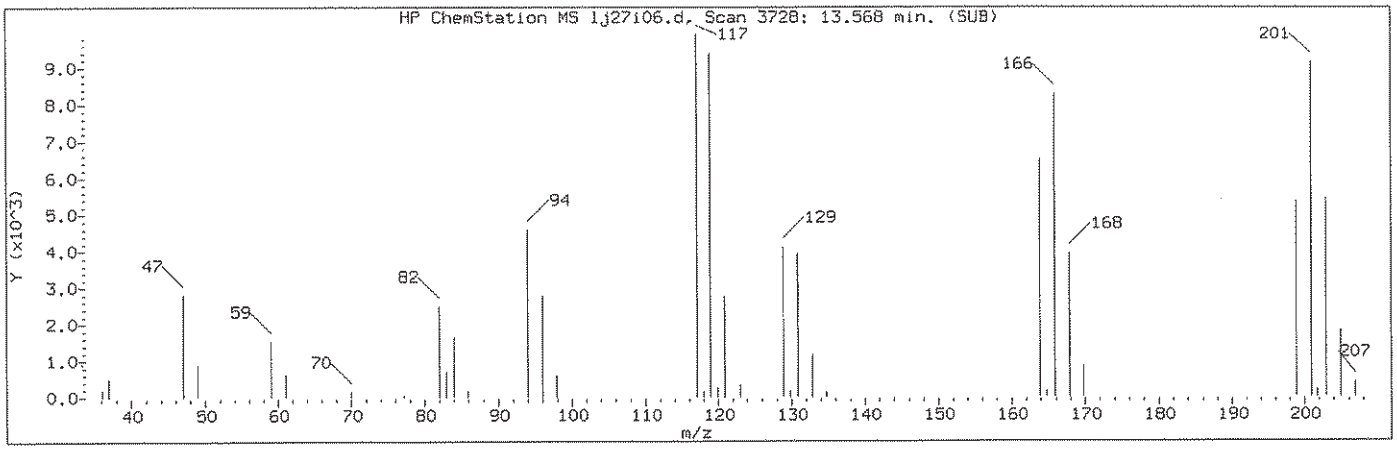
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD004 Lab Sample ID: VSTD004

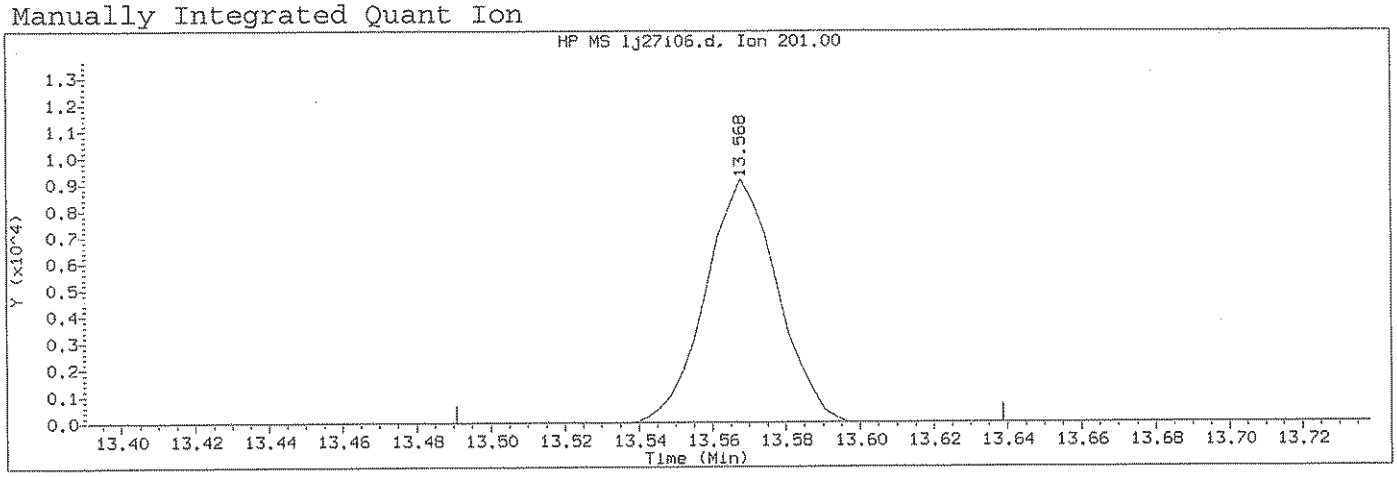
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3477		
Retention Time (minutes)	: 12.761		
Quant Ion	: 134.00		
Area	: 21305		
On-column Amount (ng)	: 4.0339		
Integration start scan	: 3468	Integration stop scan:	3498
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i06.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:16 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

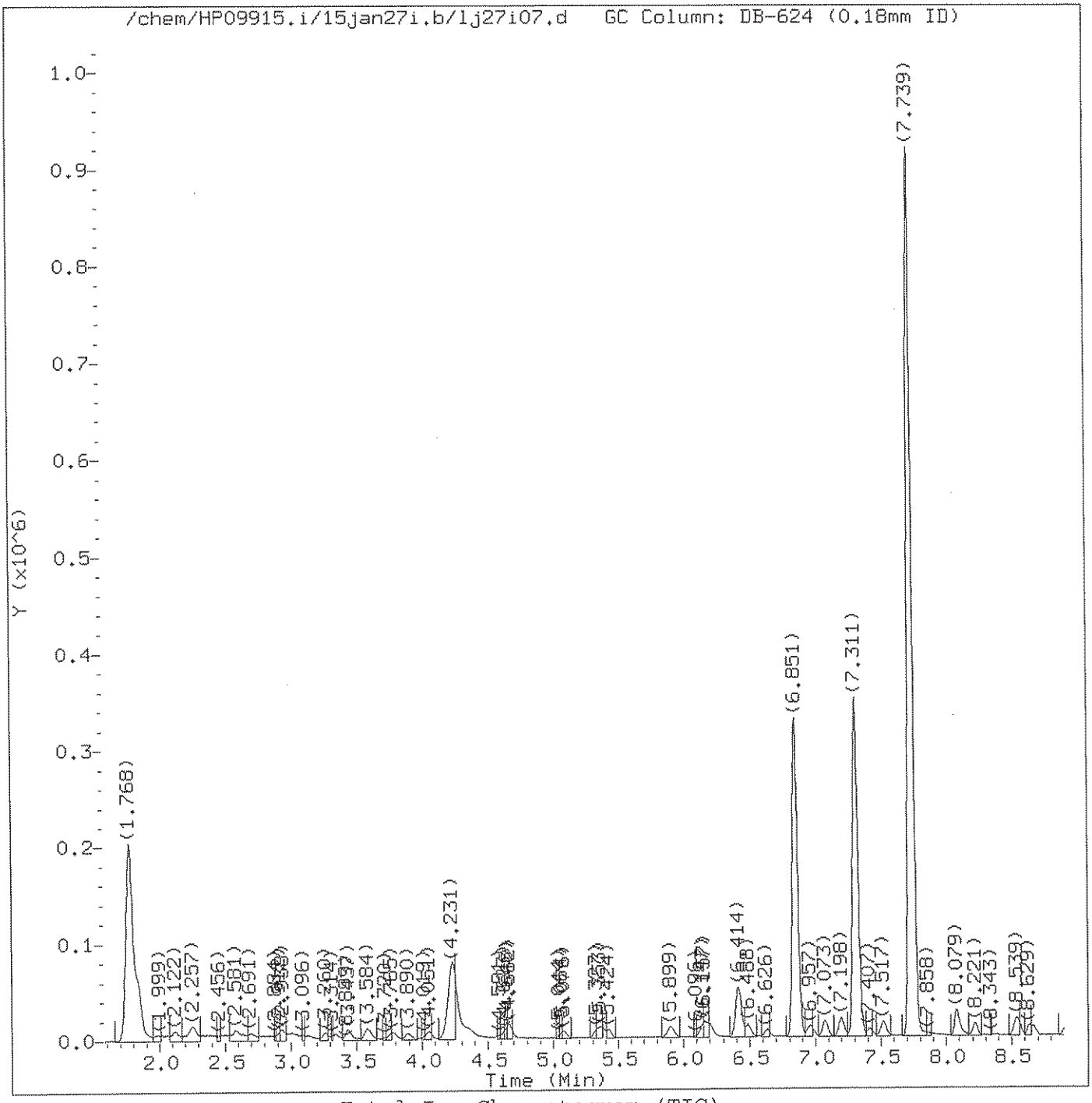
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 145		
Compound Name	: Hexachloroethane		
Scan Number	: 3728		
Retention Time (minutes)	: 13.568		
Quant Ion	: 201.00		
Area (flag)	: 12380M		
On-Column Amount (ng)	: 3.5521		
Integration start scan	: 3703	Integration stop scan:	3749
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: compound not in processing sublist

Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d
Injection date and time: 27-JAN-2015 17:39

Instrument ID: HP09915.i
Analyst ID: KEL01973

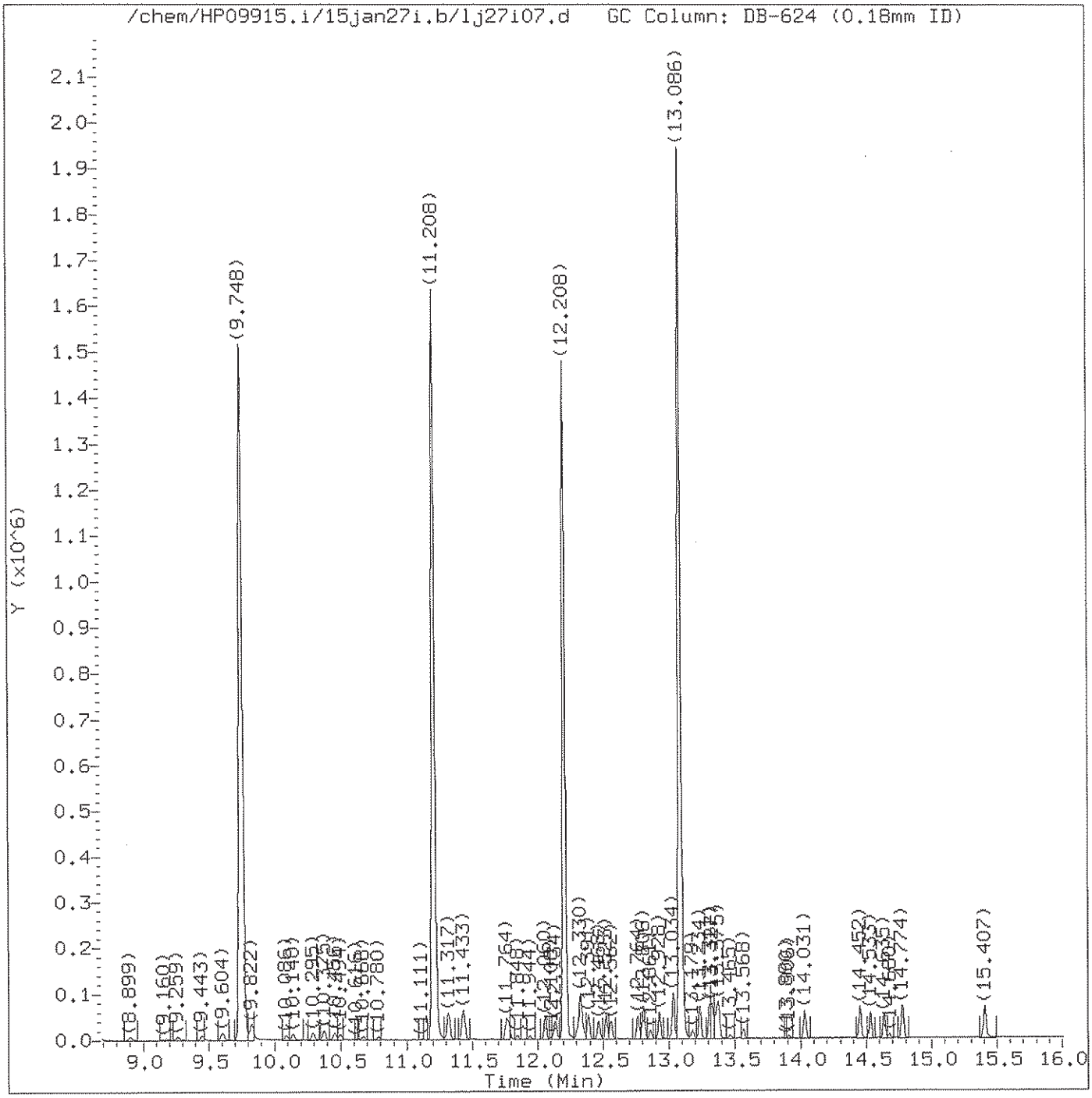
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sublist used: 8260W-BN

Sample Name: VSTD001

Lab Sample ID: VSTD001

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.996	85	4944	0.720
4) Chloromethane	(2)	2.122	50	7528	1.033
6) Vinyl Chloride	(2)	2.253	62	6784	1.005
8) Bromomethane	(2)	2.581	94	4081M	1.013
9) Chloroethane	(2)	2.694	64	3901M	1.069
43) 1,2-Dichloroethene (Total)	(2)		96	11101	1.902
10) Dichlorofluoromethane	(2)	2.932	67	9619	1.036
12) Trichlorofluoromethane	(2)	3.012	101	5949	0.813
14) Ethyl ether	(2)	3.266	59	4901	0.907
15) Freon 123a	(2)	3.337	67	6143	0.935
16) Acrolein	(1)	3.437	56	15741M	9.526
17) 1,1-Dichloroethene	(2)	3.581	96	4754M	0.970
17) 1,1-Dichloroethene	(2)	3.578	63	2385M	0.959
18) Acetone	(1)	3.604	58	1132M	1.700
19) Freon 113	(2)	3.607	101	3614	0.729
21) 2-Propanol	(1)	3.755	45	11256M	19.865
22) Methyl Iodide	(2)	3.781	142	8336	0.942
23) Carbon Disulfide	(2)	3.896	76	14977	0.917
27) Methyl Acetate	(2)	4.035	43	5988M	1.062
25) Allyl Chloride	(2)	4.054	41	8250	0.980
29)*t-Butyl alcohol-d10	(1)	4.228	65	219014	250.000
28) Methylene Chloride	(2)	4.253	84	10038M	1.153
30) t-Butyl alcohol	(1)	4.359	59	18689M	20.061
31) Acrylonitrile	(2)	4.581	53	2371	0.824
33) Methyl Tertiary Butyl Ether	(2)	4.652	73	17187	0.953
32) trans-1,2-Dichloroethene	(2)	4.671	96	5497M	0.987
34) n-Hexane	(2)	5.073	57	6877	0.818
36) 1,1-Dichloroethane	(2)	5.318	63	9808	0.956
38) di-Isopropyl ether	(2)	5.366	45	18338	0.947
39) 2-Chloro-1,3-butadiene	(2)	5.430	53	7864	0.902
40) Ethyl t-butyl ether	(2)	5.896	59	17705	0.949
90) 1,3-Dichloropropene (total)	(3)		100	13642	1.552
44) 2-Butanone	(2)	6.121	43	6718	1.870
42) cis-1,2-Dichloroethene	(2)	6.147	96	5604M	0.914
45) 2,2-Dichloropropane	(2)	6.166	77	7104M	0.915
47) Propionitrile	(1)	6.202	54	23591	19.990
48) Methacrylonitrile	(2)	6.414	67	30763	9.519
49) Bromochloromethane	(2)	6.488	128	2649	0.883

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
50) Tetrahydrofuran	(1)	6.488	71	1747	1.837
51) Chloroform	(2)	6.633	83	9212	0.946
52)$Dibromofluoromethane	(2)	6.851	113	284957	49.326
52)$Dibromofluoromethane	(2)	6.851	111	290274	49.224
53) 1,1,1-Trichloroethane	(2)	6.861	97	9392	1.017
54) Cyclohexane	(2)	6.970	56	8371	0.805
54) Cyclohexane	(2)	6.970	84	6857	0.815
54) Cyclohexane	(2)	6.954	69	2603	0.827
55) 1,1-Dichloropropene	(2)	7.080	75	7399	0.963
56) Carbon Tetrachloride	(2)	7.080	117	6059	0.880
58) Isobutyl Alcohol	(1)	7.198	41	15516	49.702
57)$1,2-Dichloroethane-d4	(2)	7.311	102	71131	49.737
57)$1,2-Dichloroethane-d4	(2)	7.311	65	334717	49.826
57)$1,2-Dichloroethane-d4	(2)	7.314	104	45018	55.394
60) Benzene	(2)	7.334	78	23270	0.975
61) 1,2-Dichloroethane	(2)	7.414	62	7057	0.938
61) 1,2-Dichloroethane	(2)	7.420	98	548	0.758
65) t-Amyl methyl ether	(2)	7.520	73	16639	0.924
66)*Fluorobenzene	(2)	7.739	96	1209056	50.000
67) n-Heptane	(2)	7.742	43	7508	0.845
108) Xylene (Total)	(3)		106	32016	2.957
69) n-Butanol	(1)	8.079	56	24313M	88.406
71) Trichloroethene	(2)	8.224	95	6052	0.996
72) Methylcyclohexane	(2)	8.526	83	8596	0.815
72) Methylcyclohexane	(2)	8.539	98	3877	0.817
73) 1,2-Dichloropropane	(2)	8.559	63	5760	0.909
76) Methyl Methacrylate	(2)	8.636	69	4520M	0.854
75) 1,4-Dioxane	(1)	8.642	88	4207M	44.751
74) Dibromomethane	(2)	8.674	93	3611	0.916
78) Bromodichloromethane	(2)	8.906	83	6069	0.831
79) 2-Nitropropane	(2)	9.160	41	2497M	4.754
80) 2-Chloroethyl Vinyl Ether	(2)	9.263	63	3866	0.841
81) cis-1,3-Dichloropropene	(2)	9.449	75	7371	0.795
82) 4-Methyl-2-pentanone	(2)	9.604	43	13313	1.696
83)$Toluene-d8	(3)	9.748	98	1171622	49.553
83)$Toluene-d8	(3)	9.748	100	771128	49.608
141) Diethylbenzene (total)	(4)		100	57602	3.604
88) Toluene	(3)	9.832	92	14591	0.989

M = Compound was manually integrated.
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$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
89) trans-1,3-Dichloropropene	(3)	10.089	75	6271	0.757
91) Ethyl Methacrylate	(3)	10.140	69	7883	0.833
92) 1,1,2-Trichloroethane	(3)	10.295	97	5111	0.916
93) Tetrachloroethene	(3)	10.375	166	6235	0.993
94) 1,3-Dichloropropane	(3)	10.456	76	9058	0.935
96) 2-Hexanone	(3)	10.501	43	9233	1.628
97) Dibromochloromethane	(3)	10.674	129	4301	0.765
99) 1,2-Dibromoethane	(3)	10.790	107	5424	0.906
100)*Chlorobenzene-d5	(3)	11.208	117	908107	50.000
101) 1-Chlorohexane	(3)	11.211	91	8523	1.057
102) Chlorobenzene	(3)	11.237	112	15688	0.969
103) 1,1,1,2-Tetrachloroethane	(3)	11.314	131	4391	0.830
104) Ethylbenzene	(3)	11.317	91	28193	0.998
106) m+p-Xylene	(3)	11.433	106	21617	1.982
107) o-Xylene	(3)	11.761	106	10399	0.975
109) Styrene	(3)	11.780	104	15815	0.886
110) Bromoform	(3)	11.947	173	3327	0.793
111) Isopropylbenzene	(3)	12.060	105	28846	1.011
112) Cyclohexanone	(1)	12.137	55	16822	48.281
114)$4-Bromofluorobenzene	(3)	12.208	95	464835	49.382
114)$4-Bromofluorobenzene	(3)	12.211	174	378064	49.176
116) 1,1,2,2-Tetrachloroethane	(4)	12.304	83	8525	0.972
115) Bromobenzene	(4)	12.324	156	7002	0.984
118) trans-1,4-Dichloro-2-butene	(4)	12.333	53	15855	7.622
117) 1,2,3-Trichloropropane	(4)	12.359	110	2587	1.019
119) n-Propylbenzene	(4)	12.391	91	36384	1.062
120) 2-Chlorotoluene	(4)	12.468	126	6888	1.022
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	24925	1.017
121) 4-Chlorotoluene	(4)	12.562	126	6957	0.991
124) tert-Butylbenzene	(4)	12.767	134	5570M	1.104
125) Pentachloroethane	(4)	12.800	167	3330	0.818
126) 1,2,4-Trimethylbenzene	(4)	12.809	105	25944	1.042
127) sec-Butylbenzene	(4)	12.928	105	34946	1.109
129) 1,3-Dichlorobenzene	(4)	13.031	146	14920	1.088
130) p-Isopropyltoluene	(4)	13.037	119	29963	1.104
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	484912	50.000
133) 1,4-Dichlorobenzene	(4)	13.108	146	15546	1.097
134) 1,2,3-Trimethylbenzene	(4)	13.111	105	27095	1.054

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

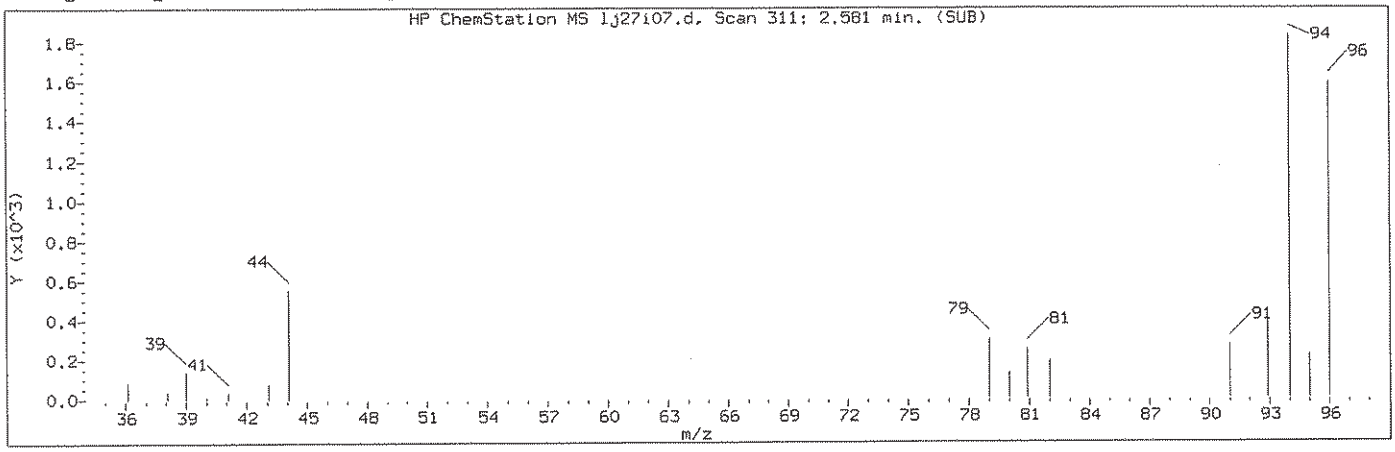
Sample Name: VSTD001 Lab Sample ID: VSTD001

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
135) Benzyl Chloride	(4)	13.182	91	11488	0.699
136) 1,3-Diethylbenzene	(4)	13.234	119	20234	1.189
137) 1,4-Diethylbenzene	(4)	13.308	119	20894	1.210
139) n-Butylbenzene	(4)	13.327	92	17488	1.237
138) 1,2-Dichlorobenzene	(4)	13.362	146	15223	1.099
140) 1,2-Diethylbenzene	(4)	13.378	119	16474	1.205
145) Hexachloroethane	(4)	13.568	201	2251M	0.647
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	1519	0.858
144) 1,3,5-Trichlorobenzene	(4)	14.034	180	18004	2.400
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	19000	2.542
147) Hexachlorobutadiene	(4)	14.533	225	9678	3.467
148) Naphthalene	(4)	14.639	128	38227	1.208
149) 1,2,3-Trichlorobenzene	(4)	14.777	180	20530	2.672
150) 2-Methylnaphthalene	(4)	15.407	142	36910	4.120

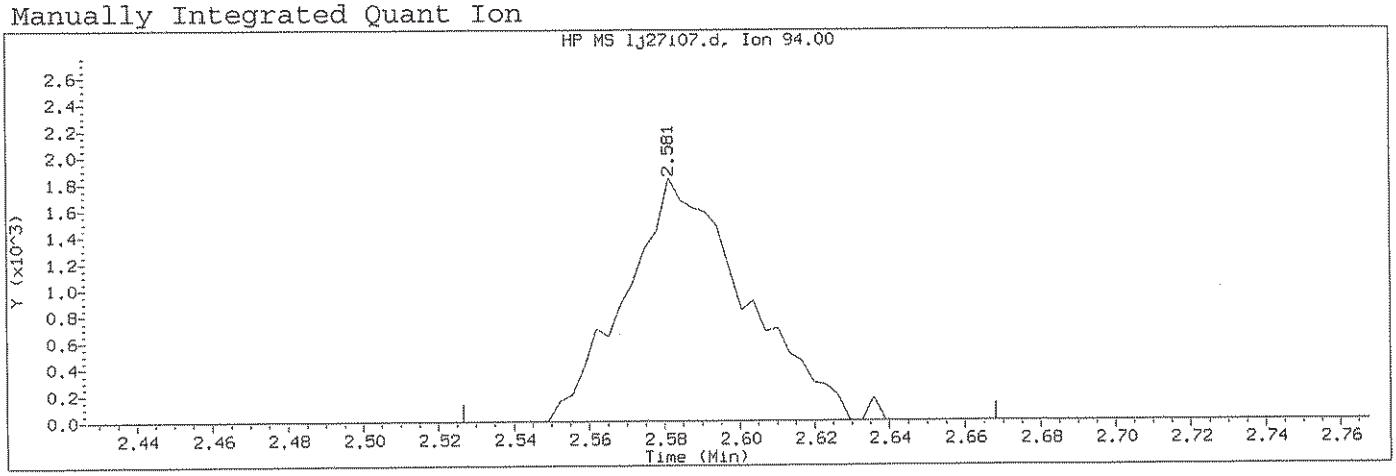
M = Compound was manually integrated.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

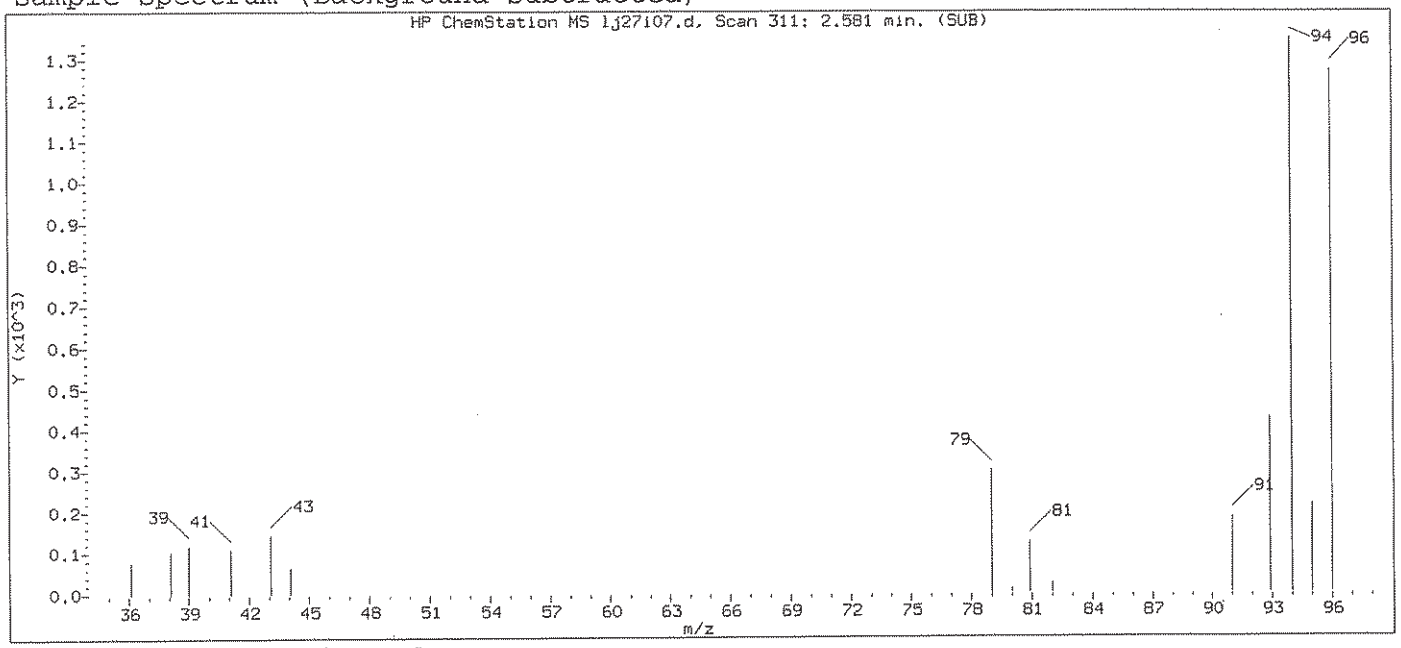
Compound Number	: 8		
Compound Name	: Bromomethane		
Scan Number	: 311		
Retention Time (minutes)	: 2.581		
Quant Ion	: 94.00		
Area (flag)	: 4081M		
On-Column Amount (ng)	: 1.0129		
Integration start scan	: 293	Integration stop scan:	337
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

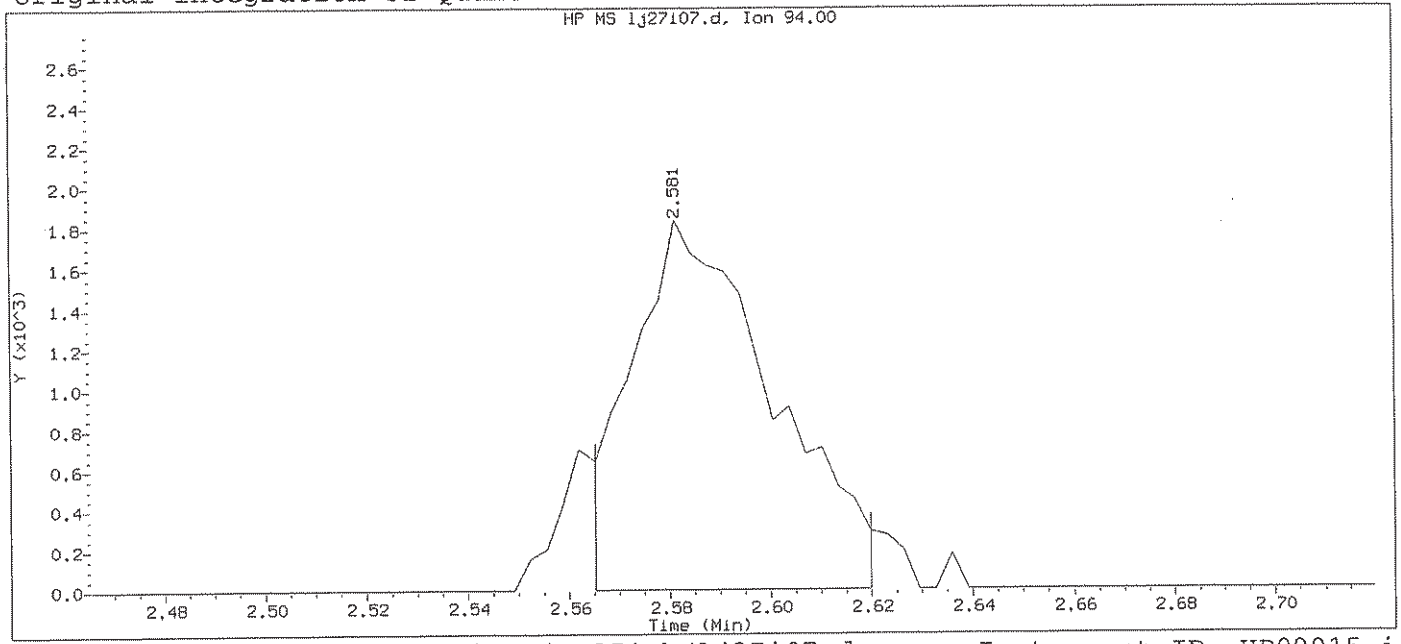
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

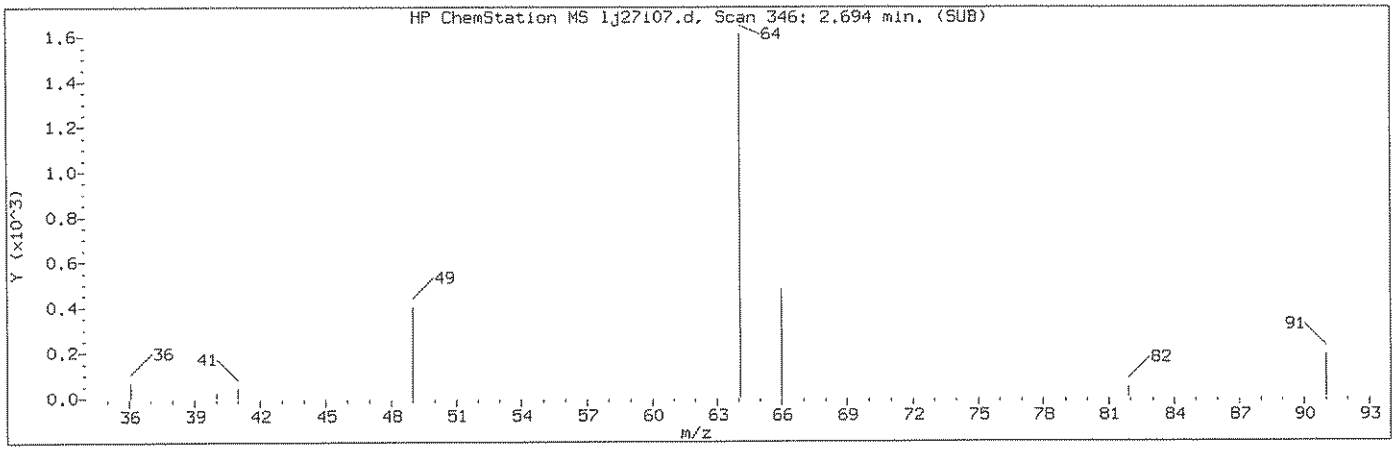
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

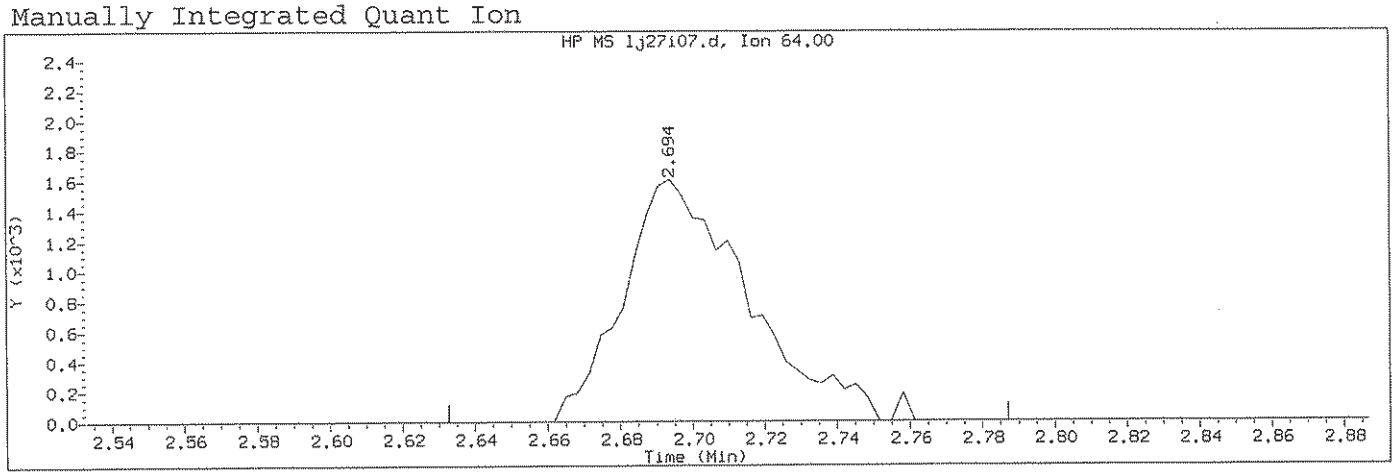
Compound Number	: 8		
Compound Name	: Bromomethane		
Scan Number	: 311		
Retention Time (minutes)	: 2.581		
Quant Ion	: 94.00		
Area	: 3582		
On-column Amount (ng)	: 0.9118		
Integration start scan	: 305	Integration stop scan:	322
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature used. PIN: xxxx03274

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

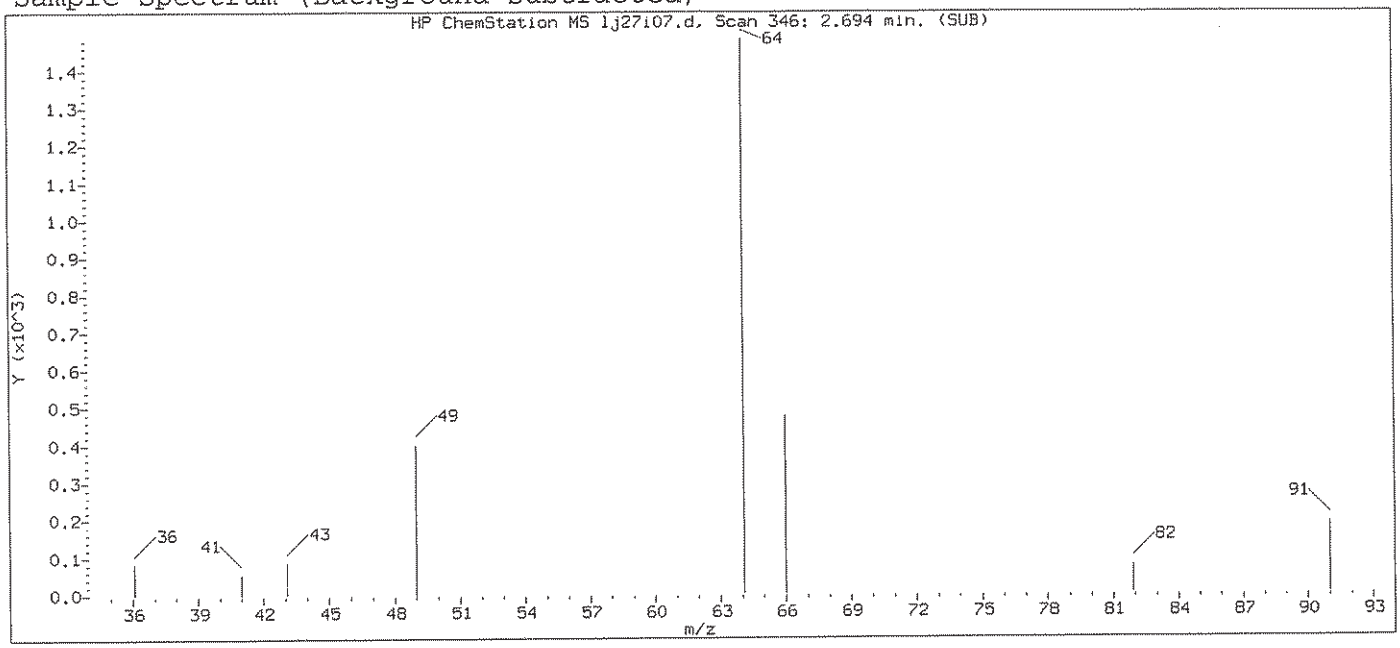
Compound Number	: 9		
Compound Name	: Chloroethane		
Scan Number	: 346		
Retention Time (minutes)	: 2.694		
Quant Ion	: 64.00		
Area (flag)	: 3901M		
On-Column Amount (ng)	: 1.0690		
Integration start scan	: 326	Integration stop scan:	374
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

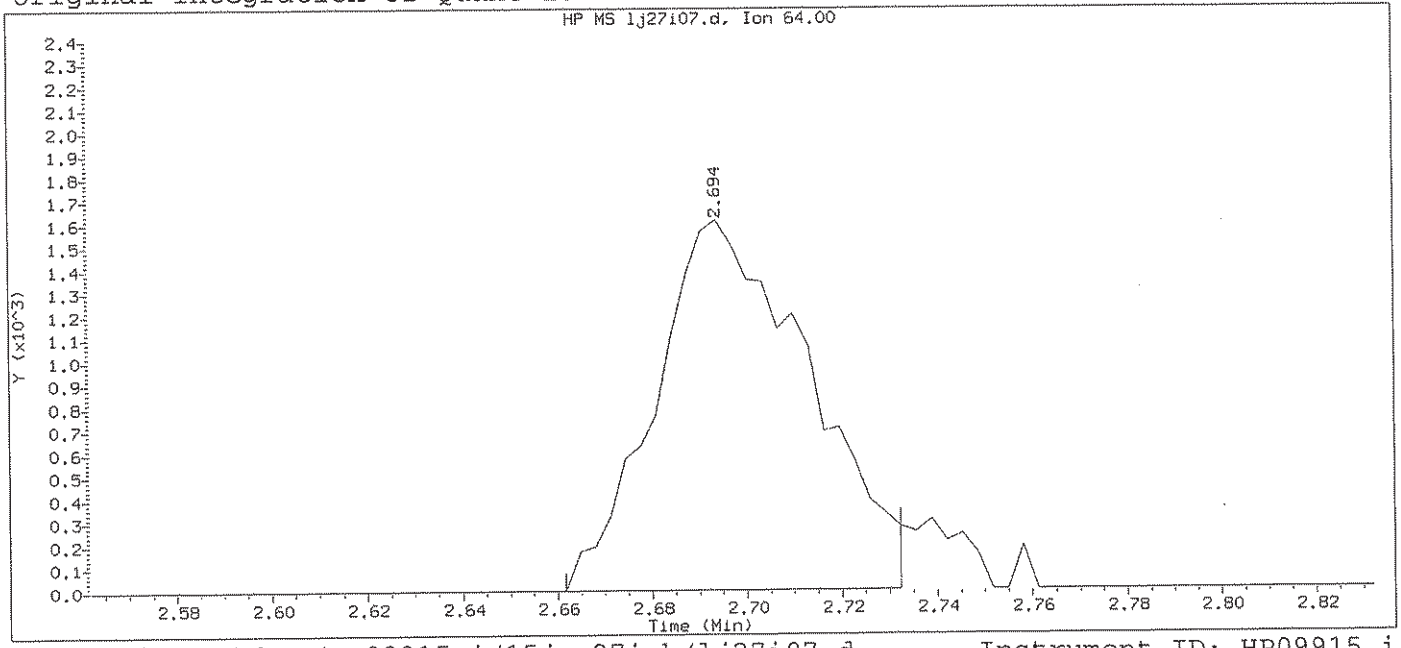
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

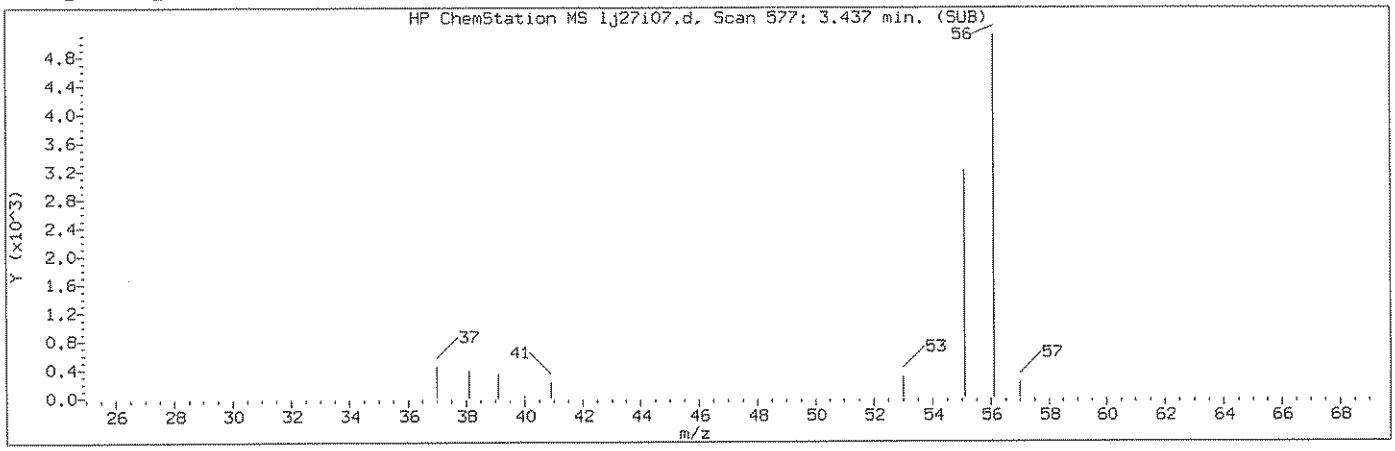
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

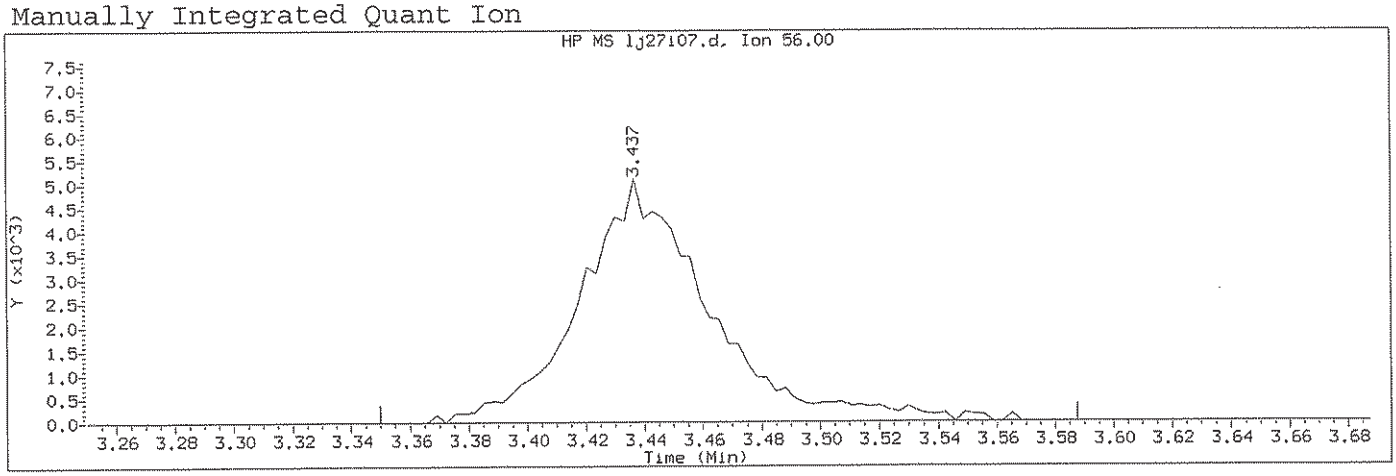
Compound Number	: 9		
Compound Name	: Chloroethane		
Scan Number	: 346		
Retention Time (minutes)	: 2.694		
Quant Ion	: 64.00		
Area	: 3612		
On-column Amount (ng)	: 1.0334		
Integration start scan	: 335	Integration stop scan:	357
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature use[illegible]

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

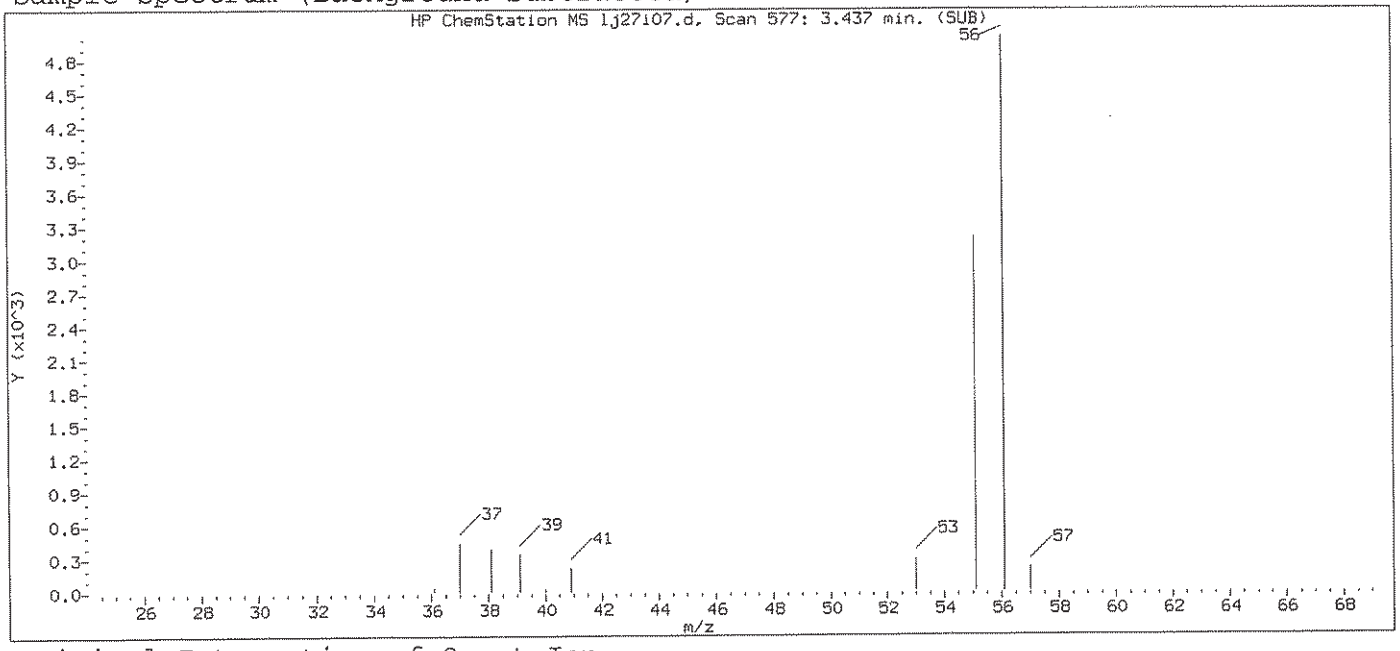
Compound Number	: 16		
Compound Name	: Acrolein		
Scan Number	: 577		
Retention Time (minutes)	: 3.437		
Quant Ion	: 56.00		
Area (flag)	: 15741M		
On-Column Amount (ng)	: 9.5263		
Integration start scan	: 549	Integration stop scan:	623
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

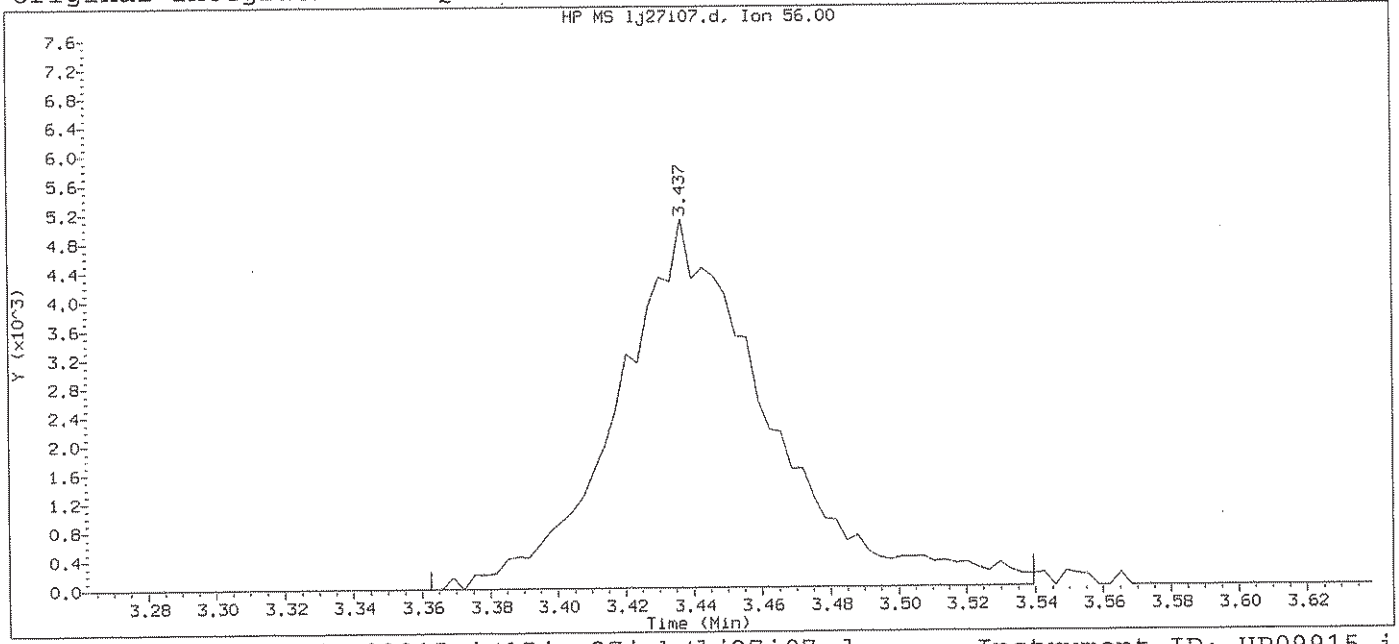
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

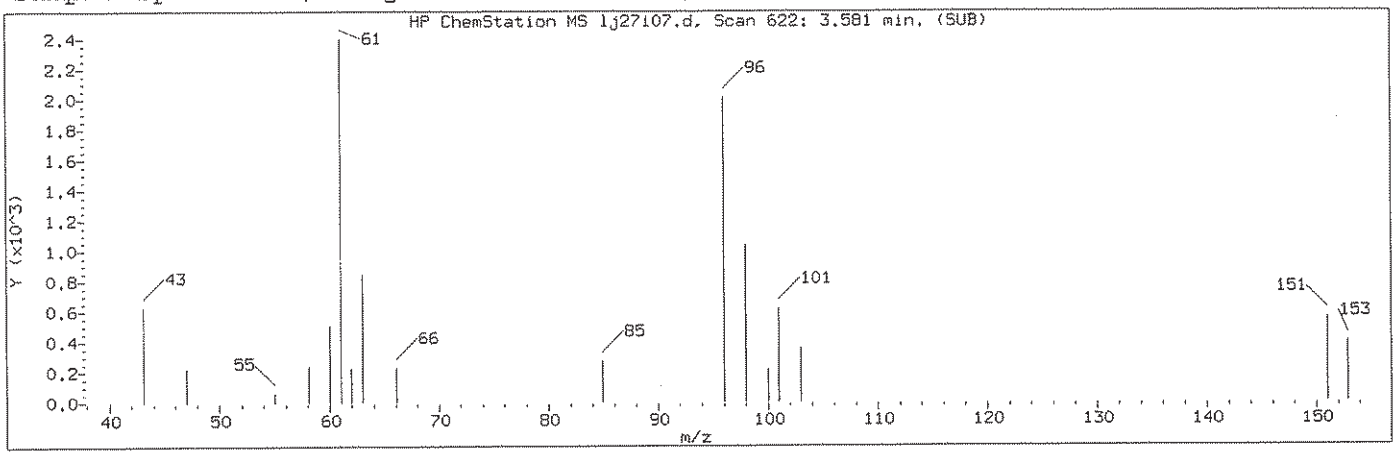
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

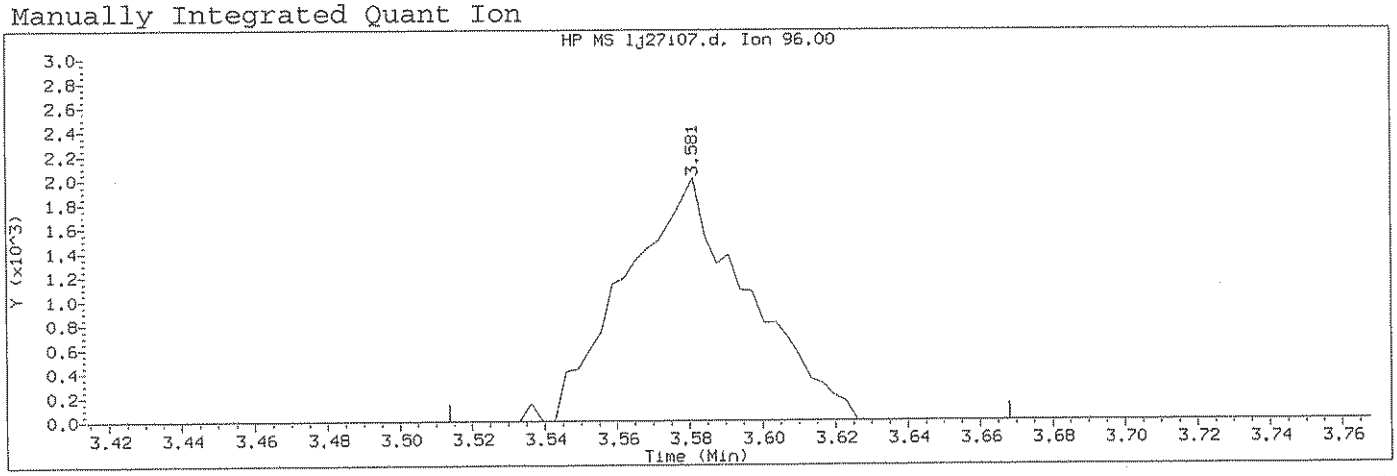
Compound Number	: 16		
Compound Name	: Acrolein		
Scan Number	: 577		
Retention Time (minutes)	: 3.437		
Quant Ion	: 56.00		
Area	: 15556		
On-column Amount (ng)	: 9.4200		
Integration start scan	: 553	Integration stop scan:	608
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

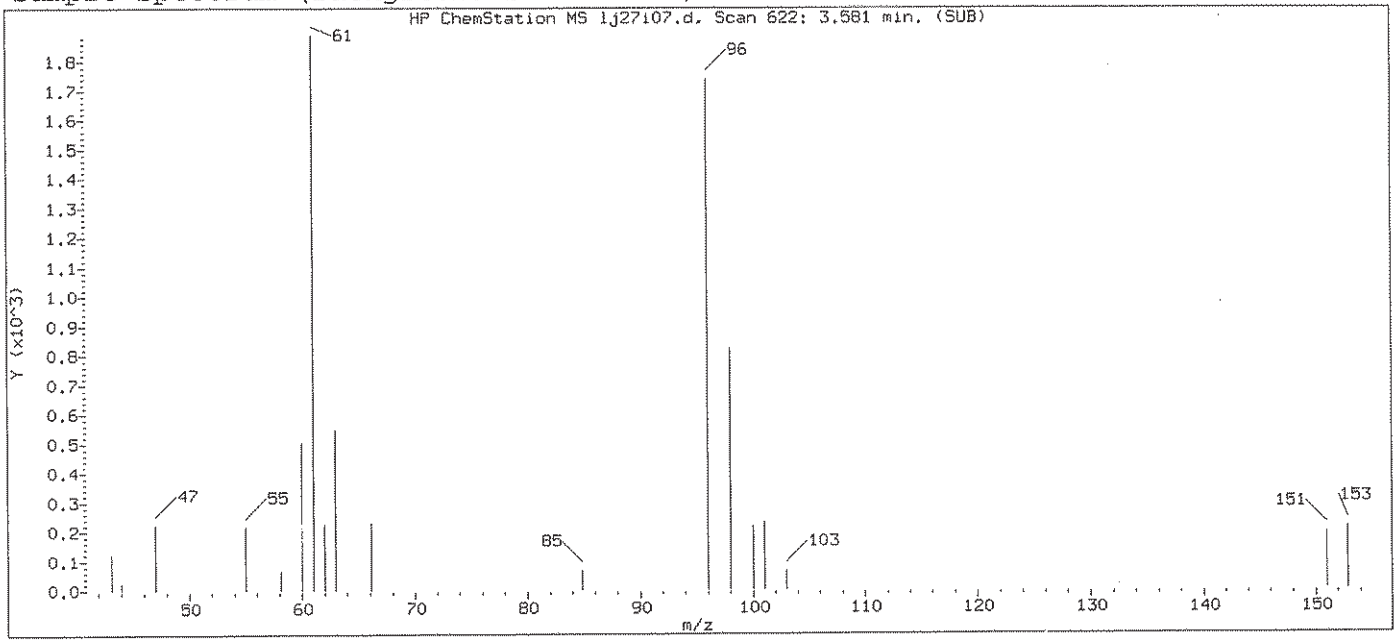
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 622		
Retention Time (minutes)	: 3.581		
Quant Ion	: 96.00		
Area (flag)	: 4754M		
On-Column Amount (ng)	: 0.9704		
Integration start scan	: 600	Integration stop scan:	648
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

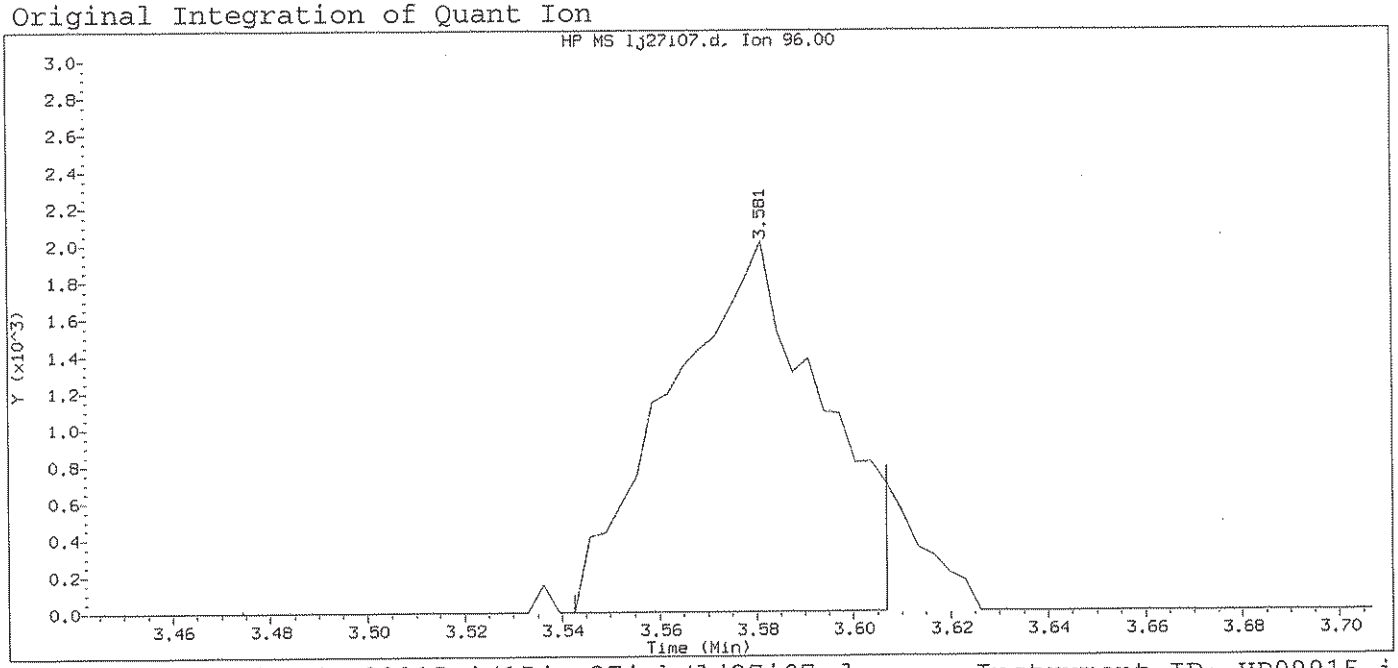
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

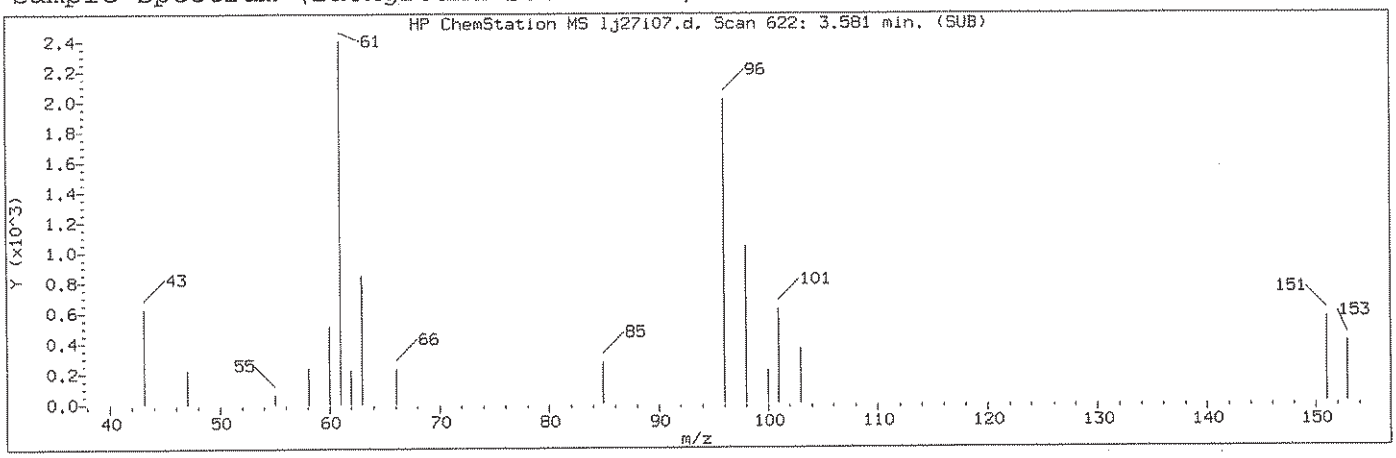
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

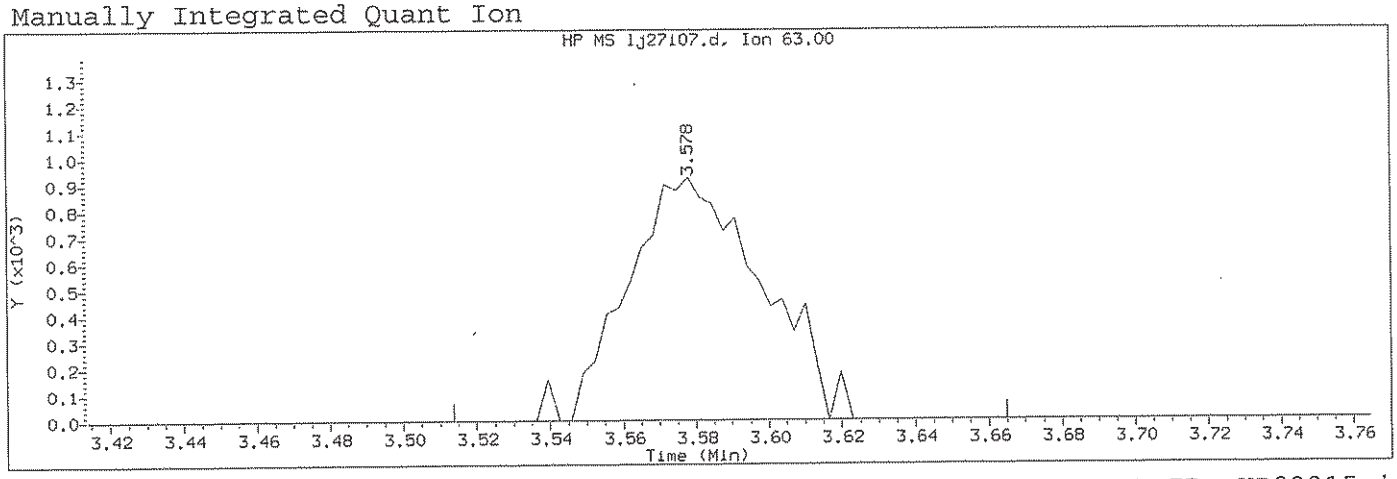
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 622		
Retention Time (minutes)	: 3.581		
Quant Ion	: 96.00		
Area	: 4355		
On-column Amount (ng)	: 0.9047		
Integration start scan	: 609	Integration stop scan:	629
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

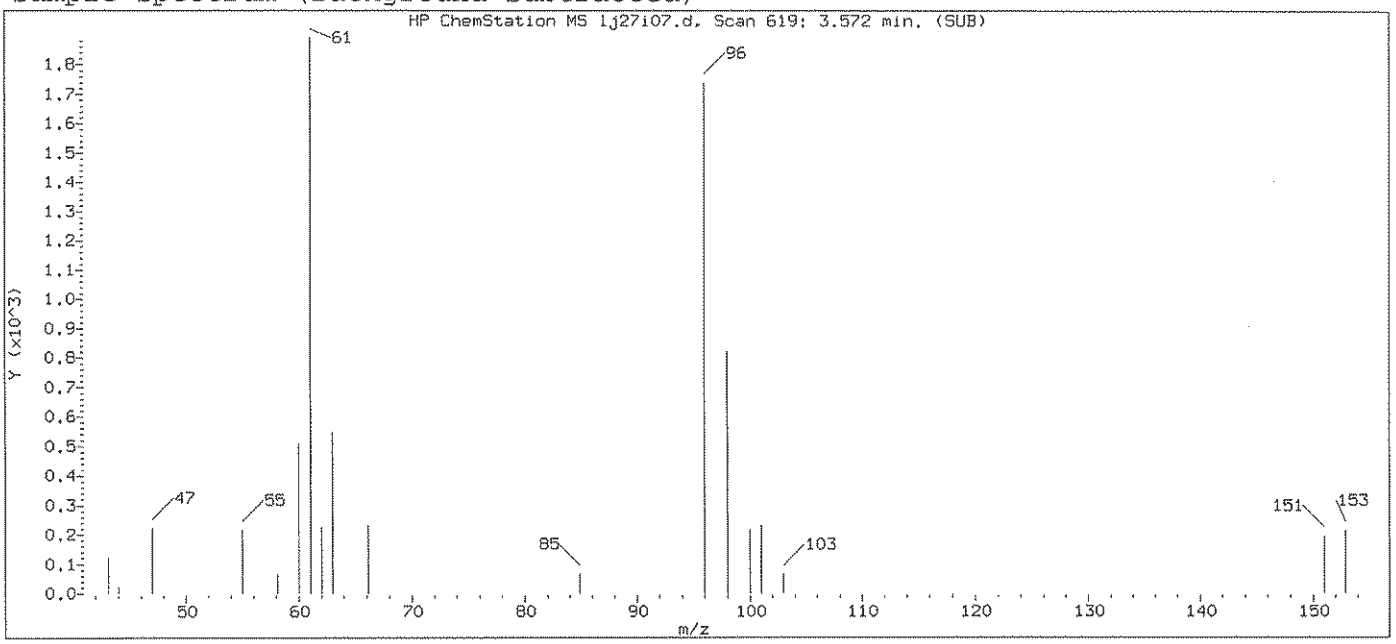
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 621		
Retention Time (minutes)	: 3.578		
Quant Ion	: 63.00		
Area (flag)	: 2385M		
On-Column Amount (ng)	: 0.9585		
Integration start scan	: 600	Integration stop scan:	647
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

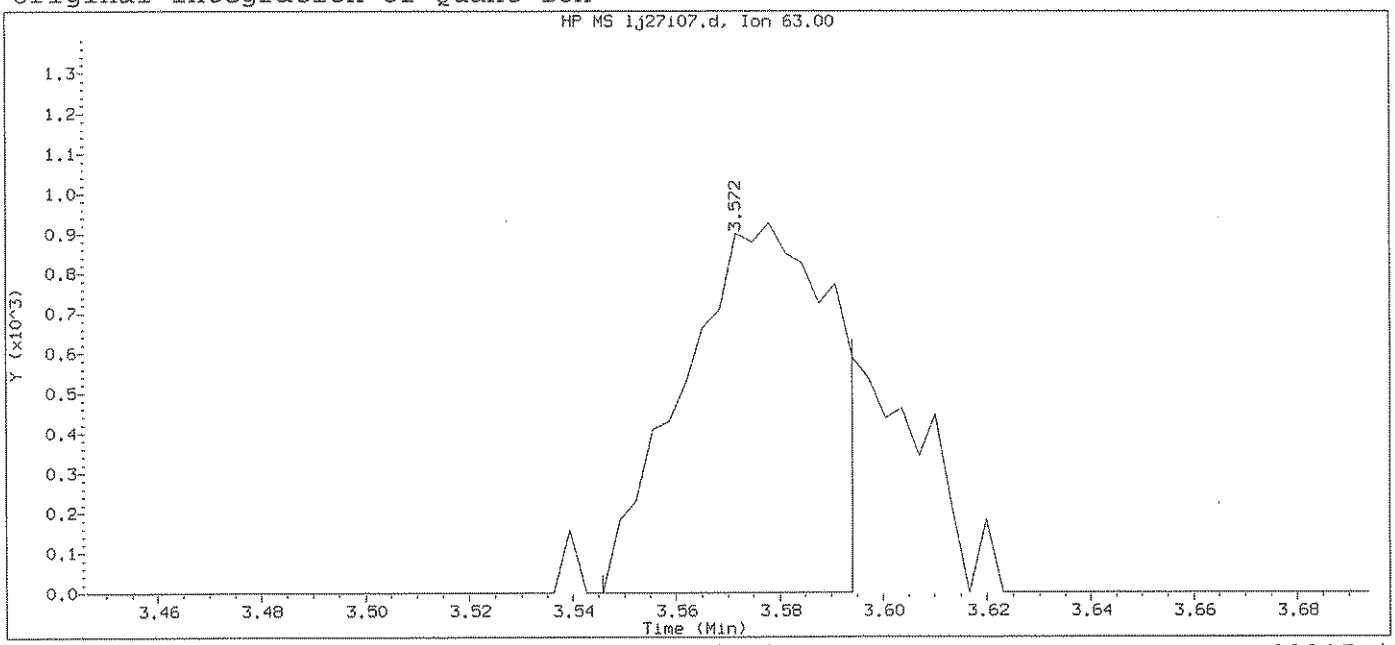
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

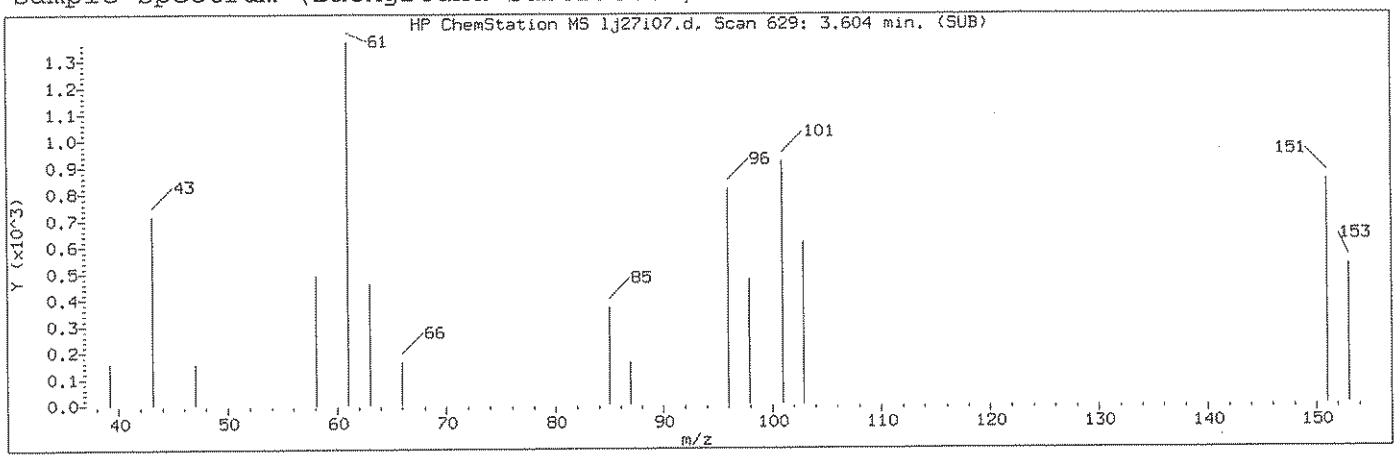
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

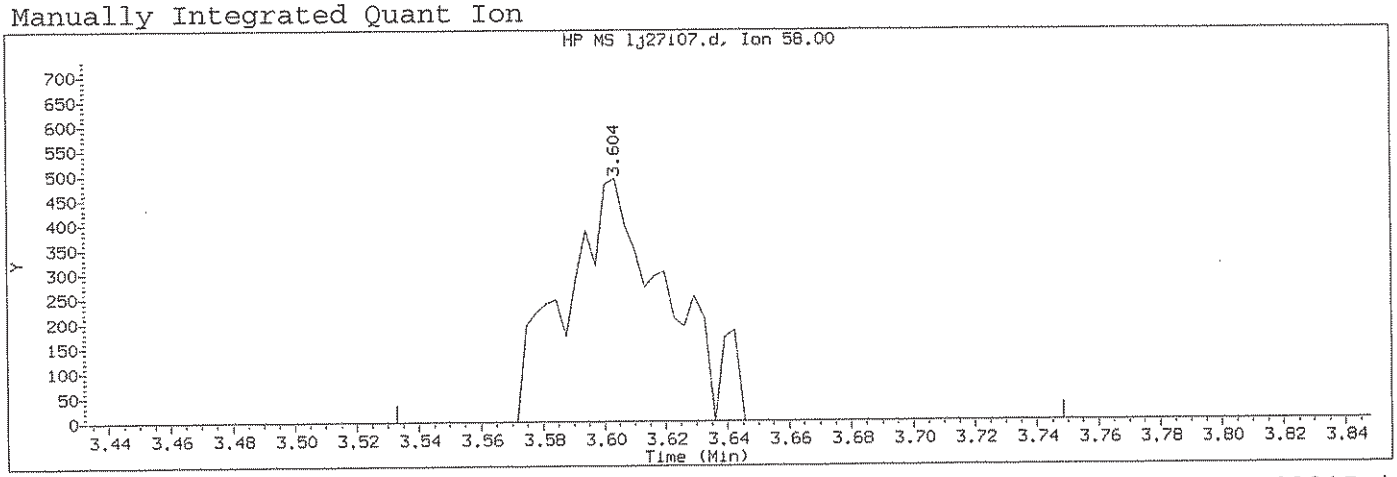
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 619		
Retention Time (minutes)	: 3.572		
Quant Ion	: 63.00		
Area	: 1795		
On-column Amount (ng)	: 0.7557		
Integration start scan	: 610	Integration stop scan:	625
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

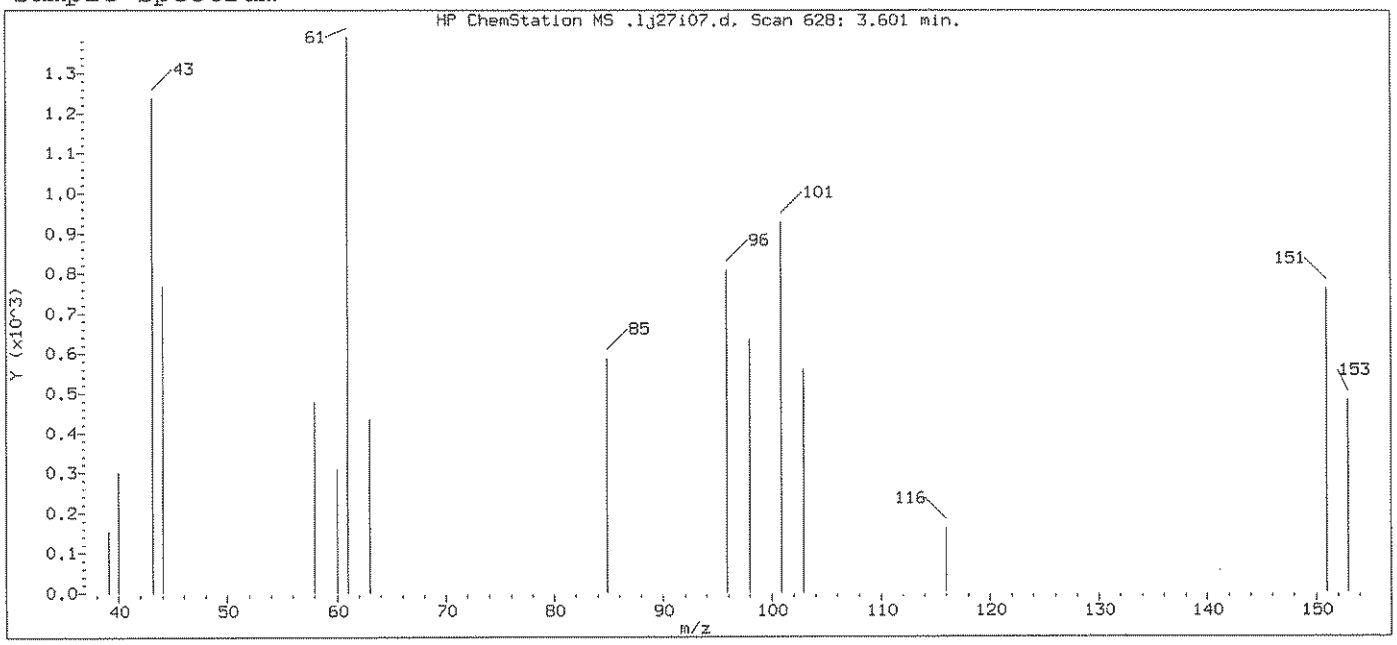
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 629		
Retention Time (minutes)	: 3.604		
Quant Ion	: 58.00		
Area (flag)	: 1132M		
On-Column Amount (ng)	: 1.7002		
Integration start scan	: 606	Integration stop scan:	673
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

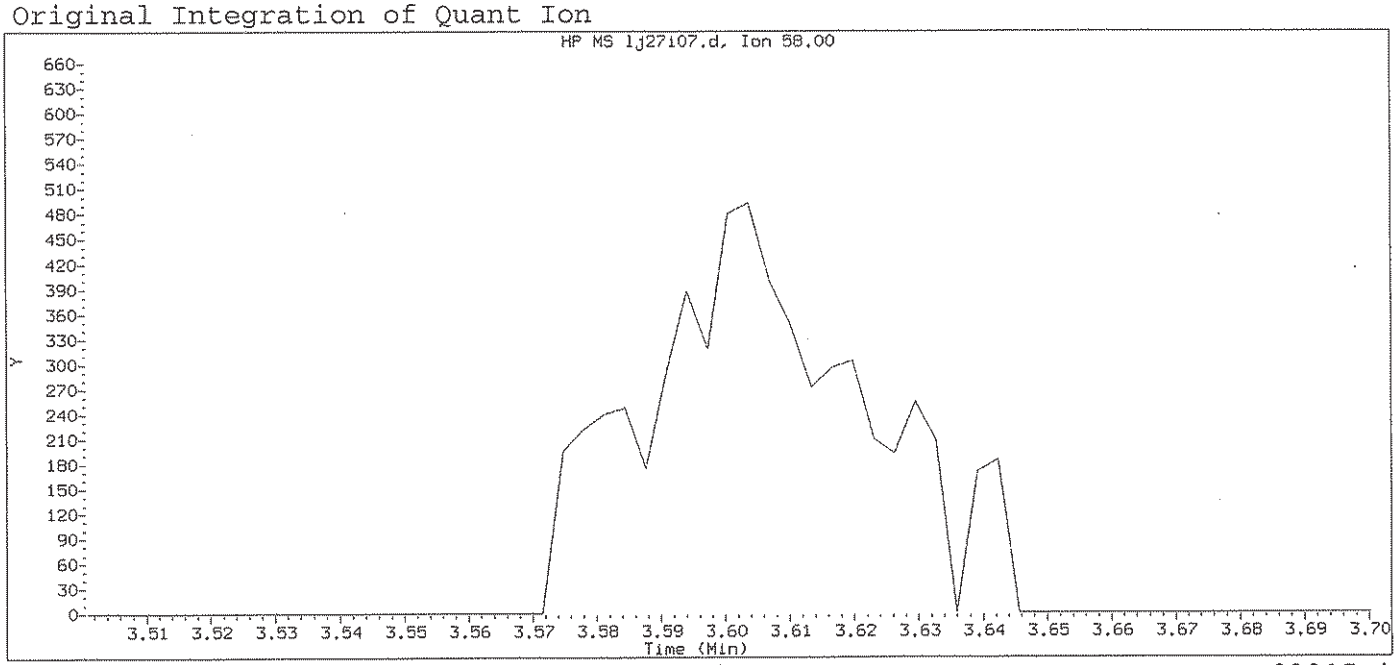
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

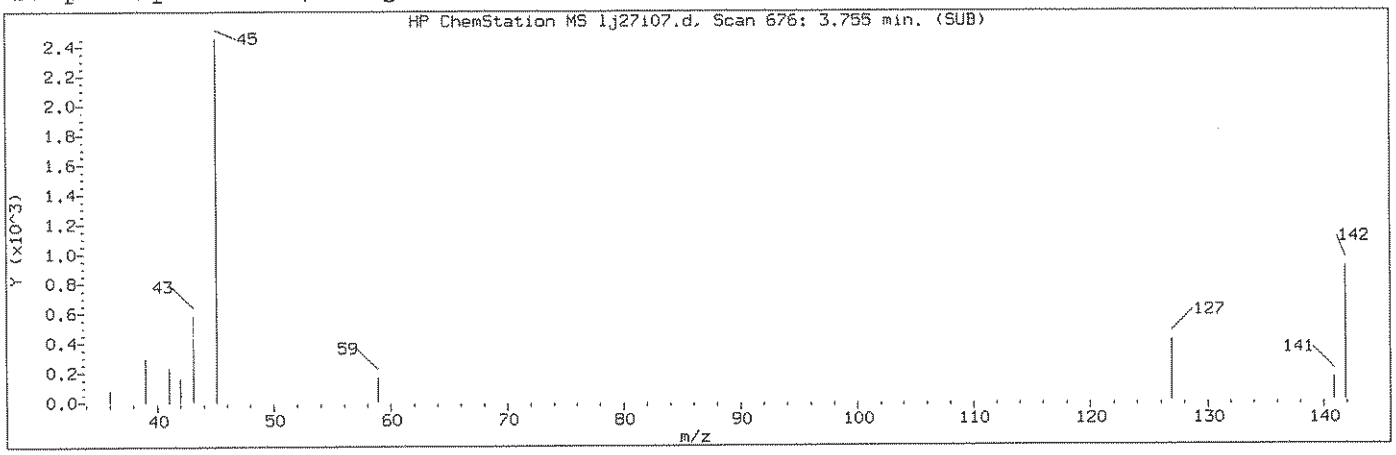
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

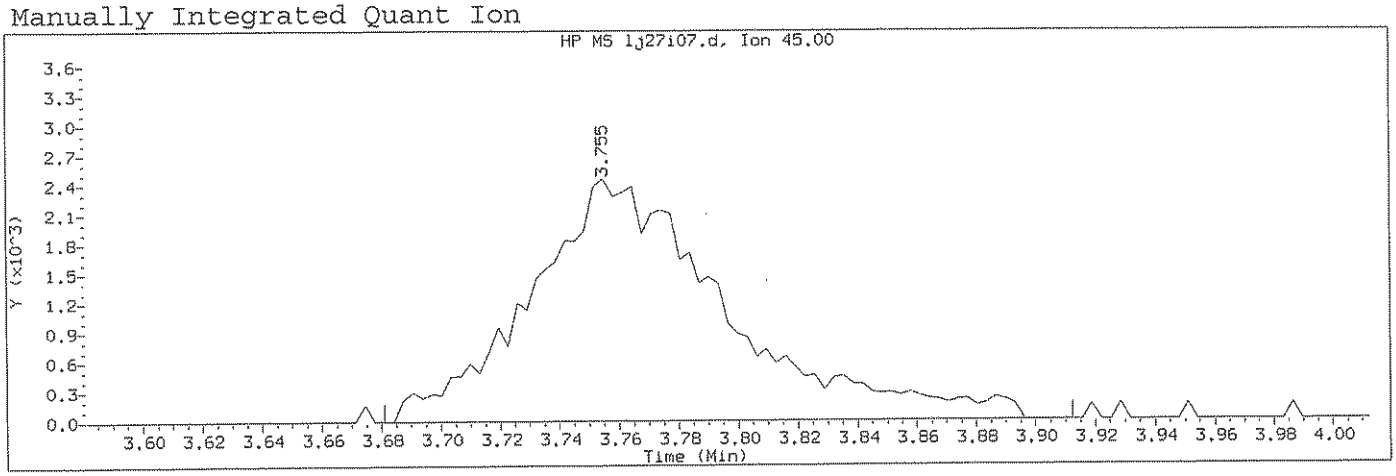
Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

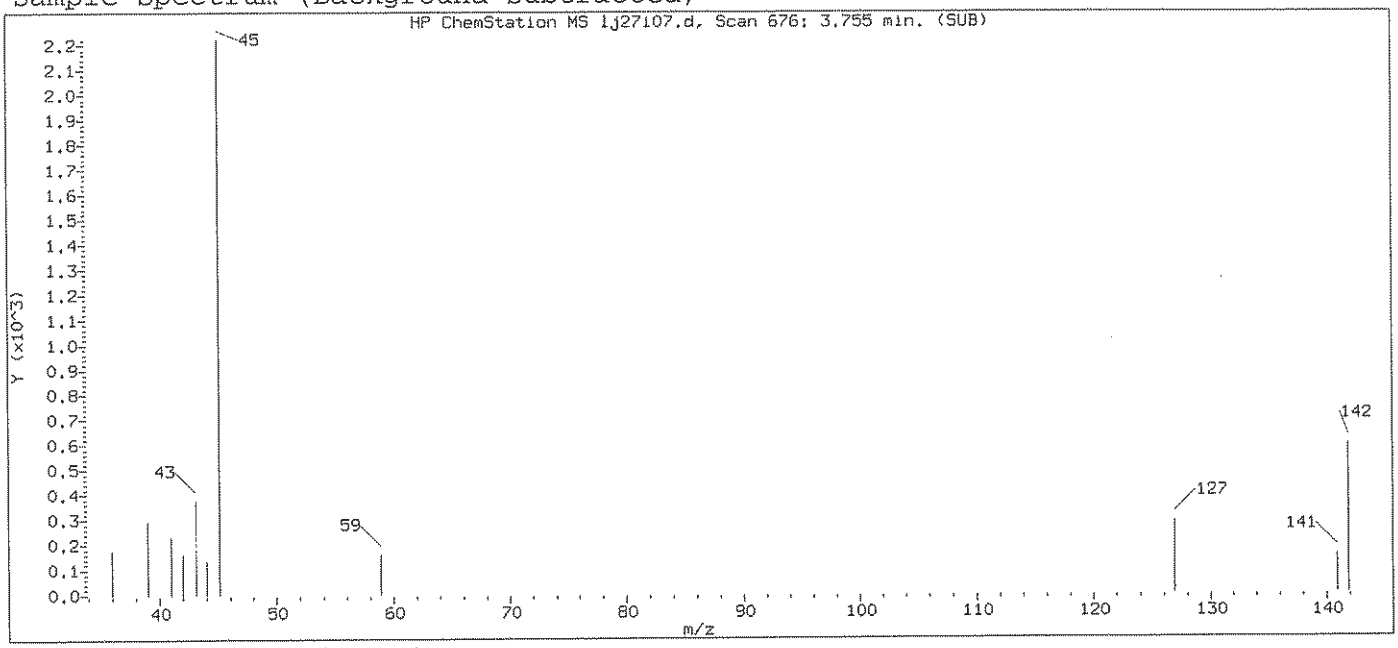
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 676		
Retention Time (minutes)	: 3.755		
Quant Ion	: 45.00		
Area (flag)	: 11256M		
On-Column Amount (ng)	: 19.8647		
Integration start scan	: 652	Integration stop scan:	724
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

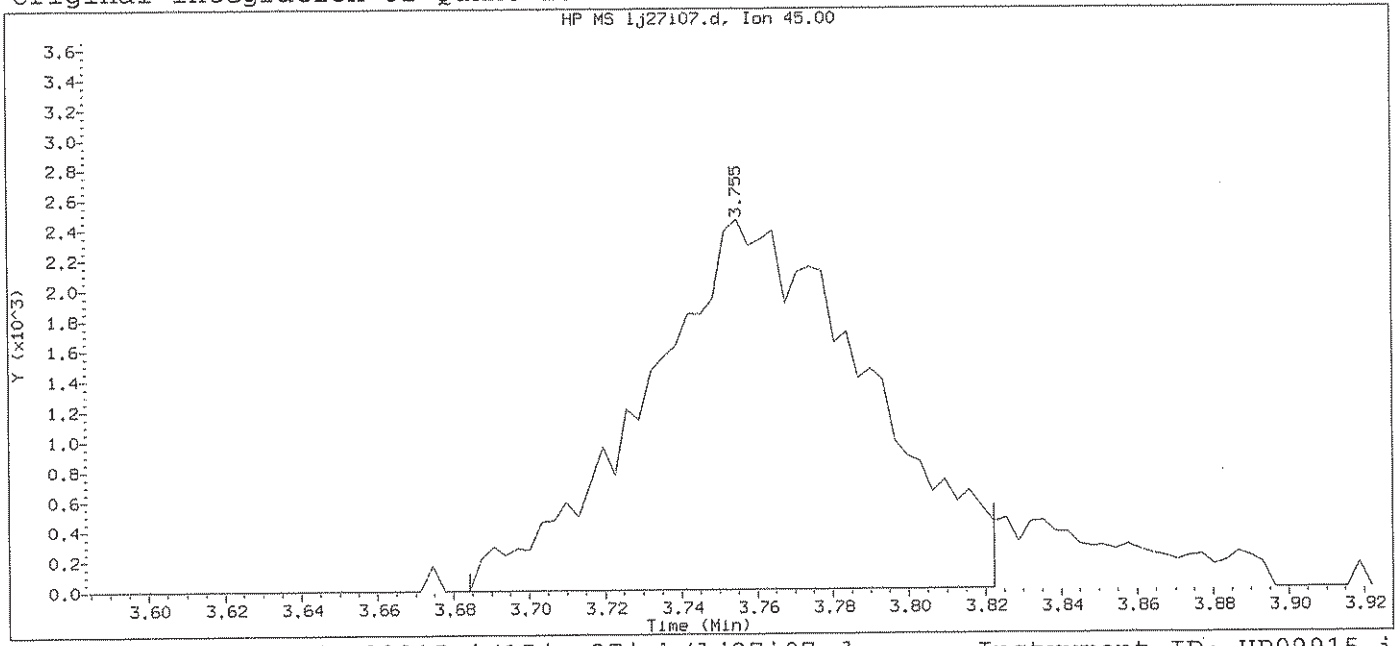
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

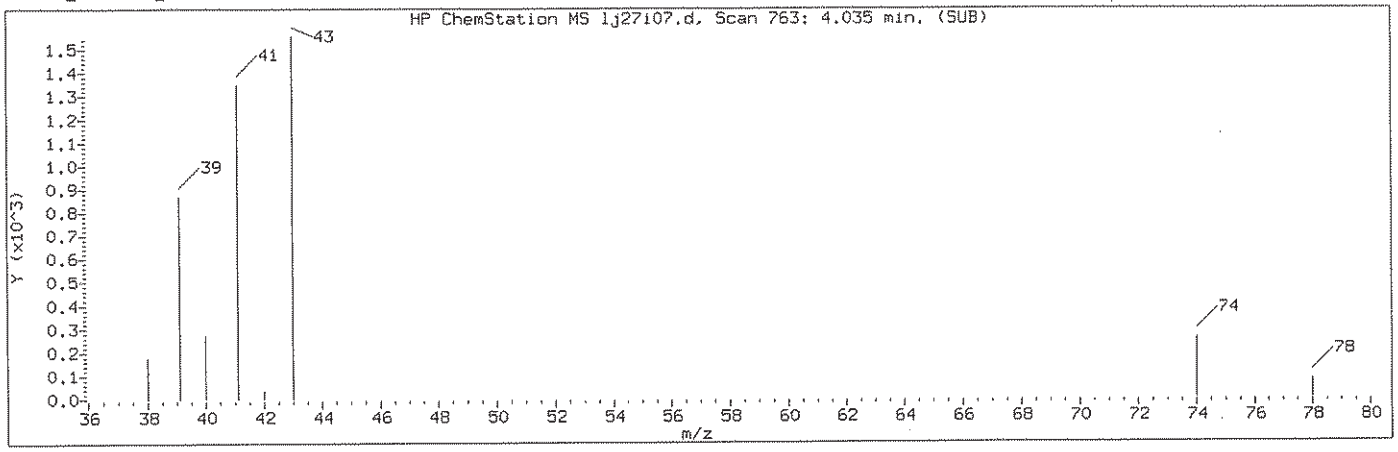
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

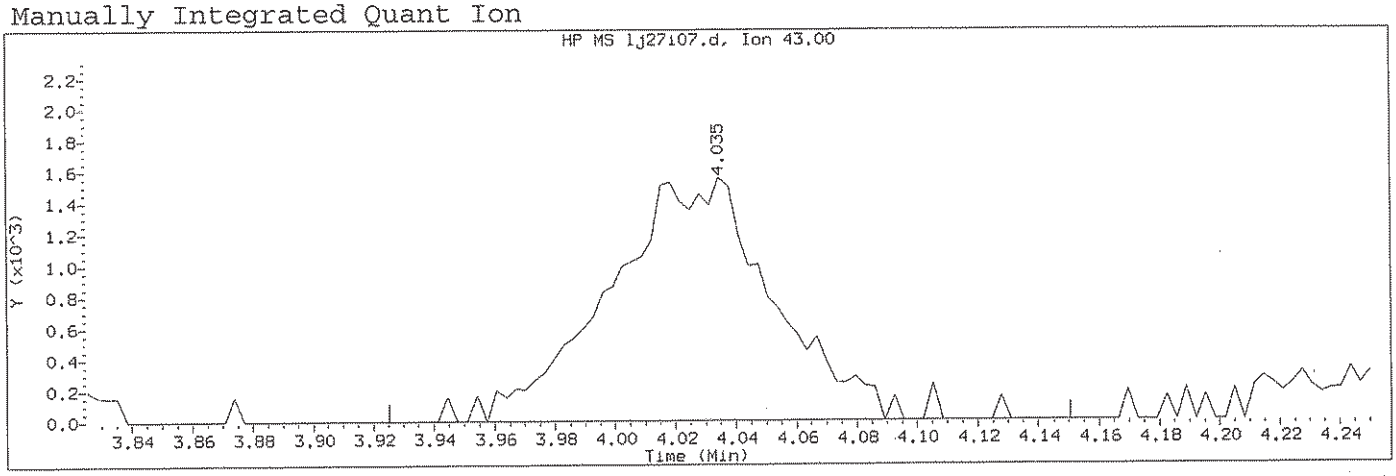
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 676		
Retention Time (minutes)	: 3.755		
Quant Ion	: 45.00		
Area	: 10041		
On-column Amount (ng)	: 17.8657		
Integration start scan	: 653	Integration stop scan:	696
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature used. PIN: Page03274

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

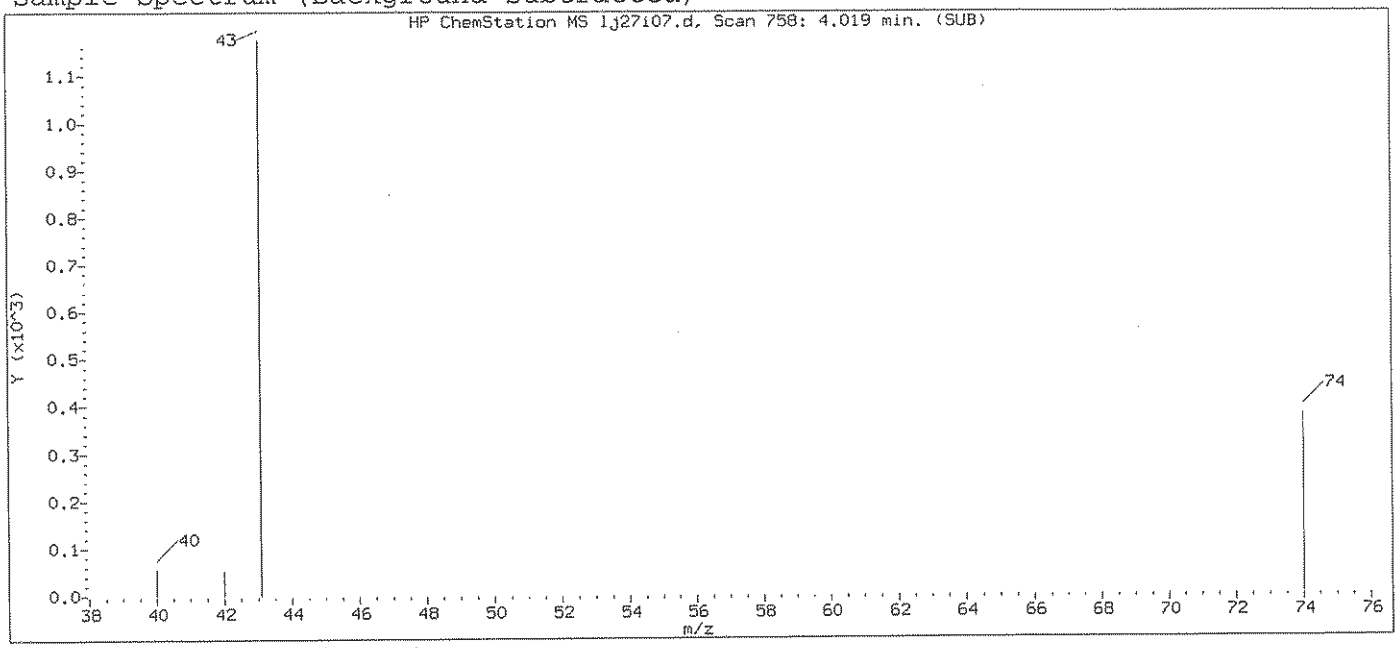
Compound Number	: 27		
Compound Name	: Methyl Acetate		
Scan Number	: 763		
Retention Time (minutes)	: 4.035		
Quant Ion	: 43.00		
Area (flag)	: 5988M		
On-Column Amount (ng)	: 1.0617		
Integration start scan	: 728	Integration stop scan:	798
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

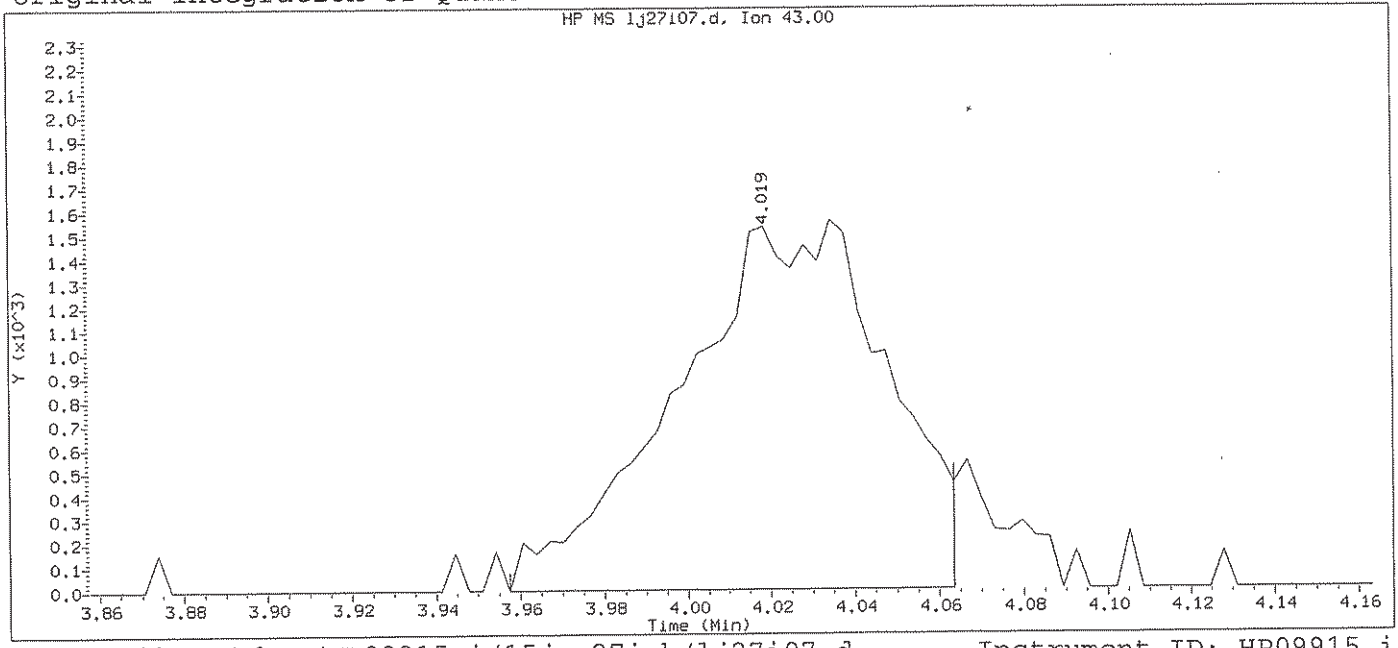
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/16

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 27		
Compound Name	: Methyl Acetate		
Scan Number	: 758		
Retention Time (minutes)	: 4.019		
Quant Ion	: 43.00		
Area	: 5363		
On-column Amount (ng)	: 0.9650		
Integration start scan	: 738	Integration stop scan:	771
Y at integration start	: 0	Y at integration end:	0

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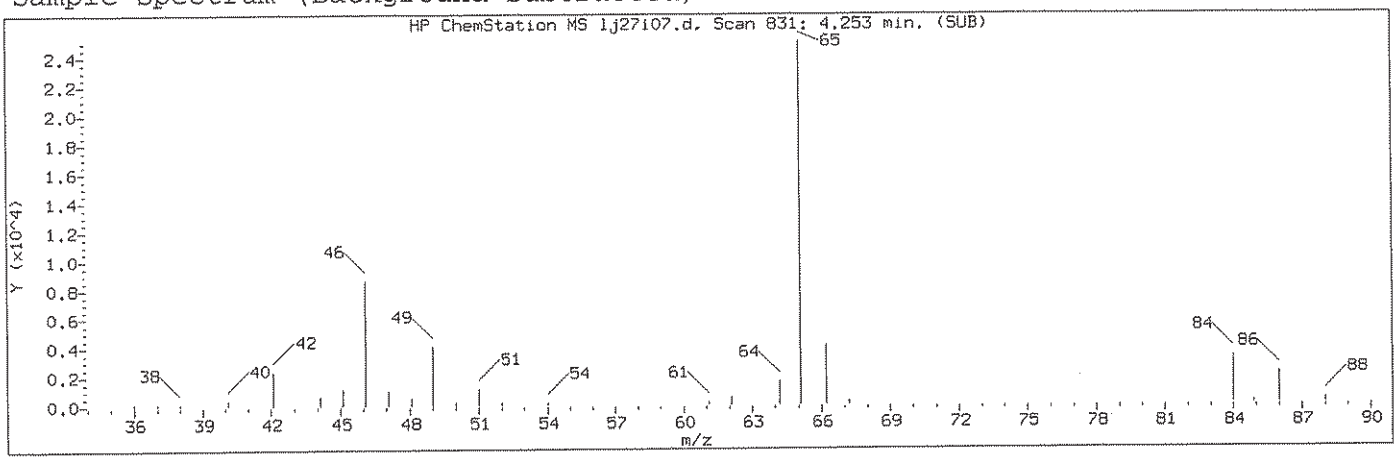
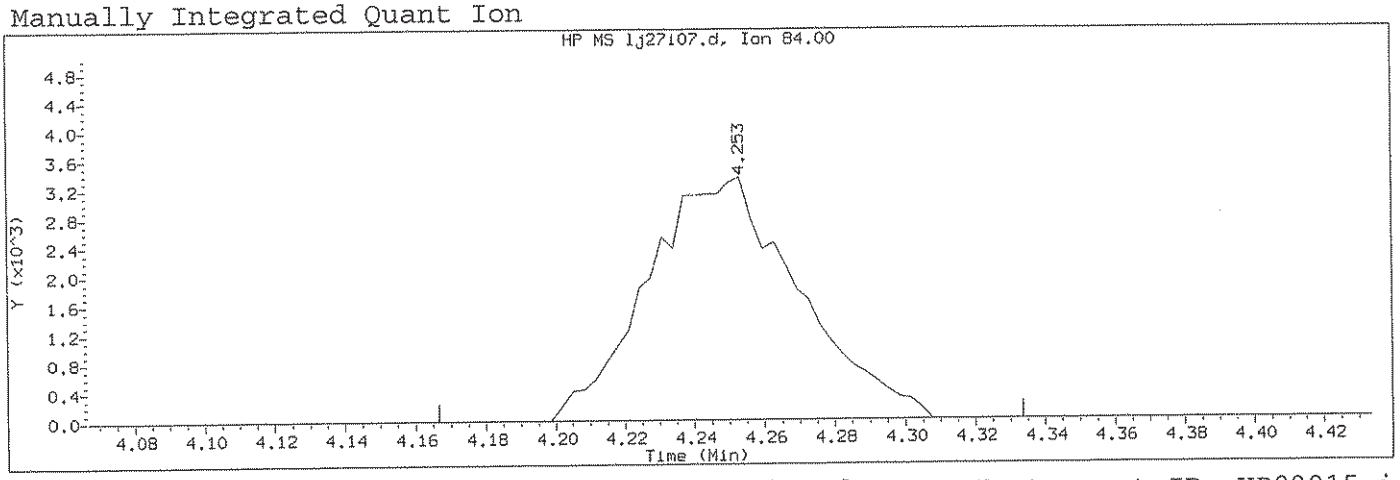
Target 3.5 esignature use[illegible] Page 03274

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

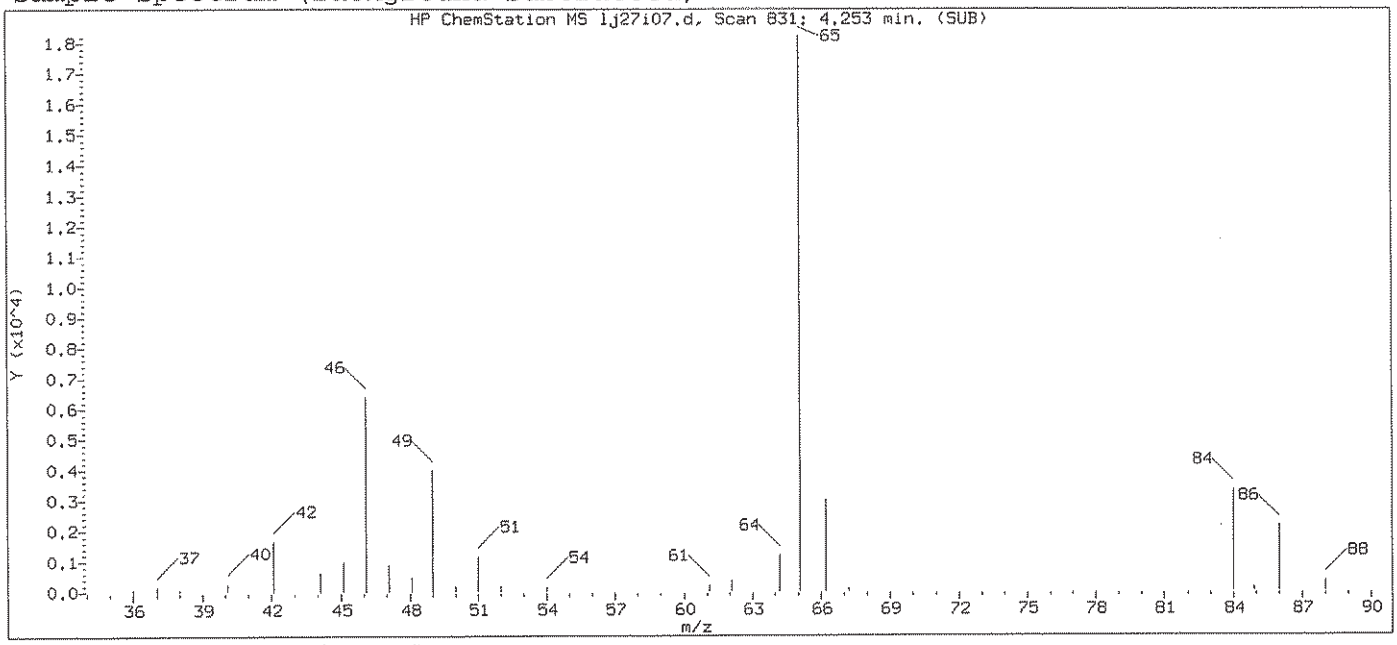
Compound Number	: 28		
Compound Name	: Methylene Chloride		
Scan Number	: 831		
Retention Time (minutes)	: 4.253		
Quant Ion	: 84.00		
Area (flag)	: 10038M		
On-Column Amount (ng)	: 1.1530		
Integration start scan	: 803	Integration stop scan:	855
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

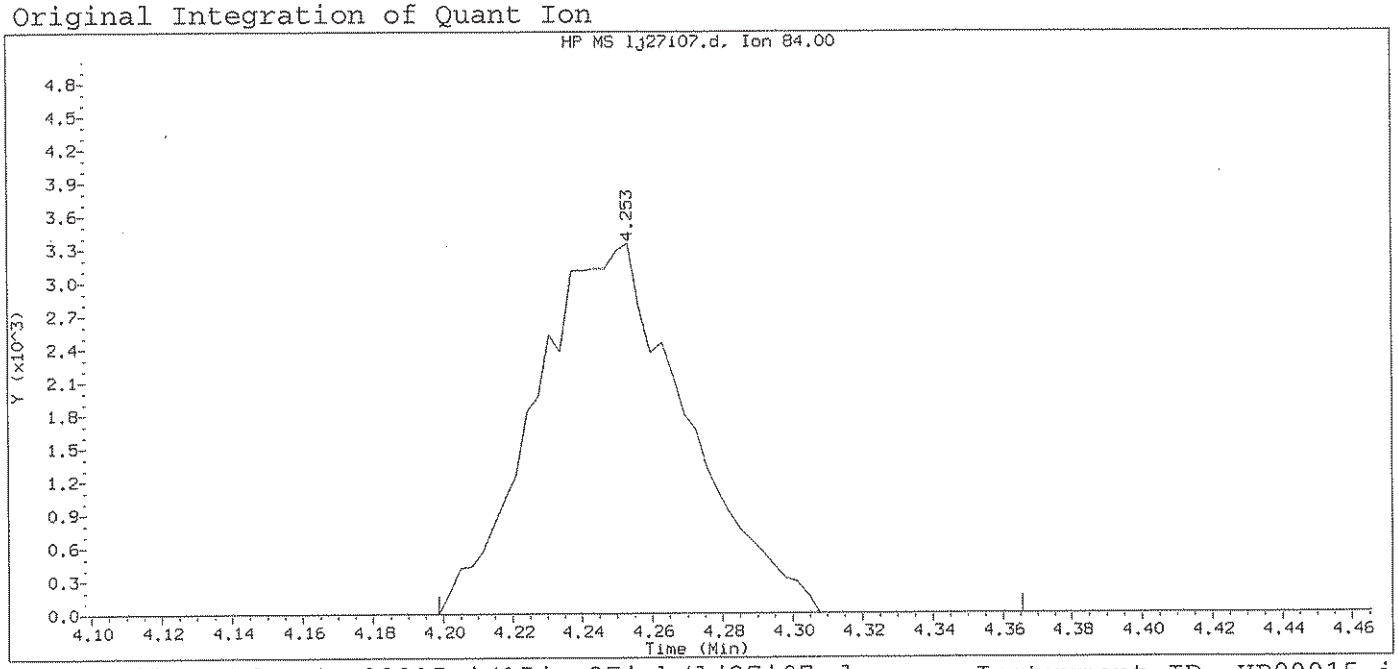
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 28		
Compound Name	: Methylene Chloride		
Scan Number	: 831		
Retention Time (minutes)	: 4.253		
Quant Ion	: 84.00		
Area	: 10039		
On-column Amount (ng)	: 1.4589		
Integration start scan	: 813	Integration stop scan:	865
Y at integration start	: 0	Y at integration end:	0

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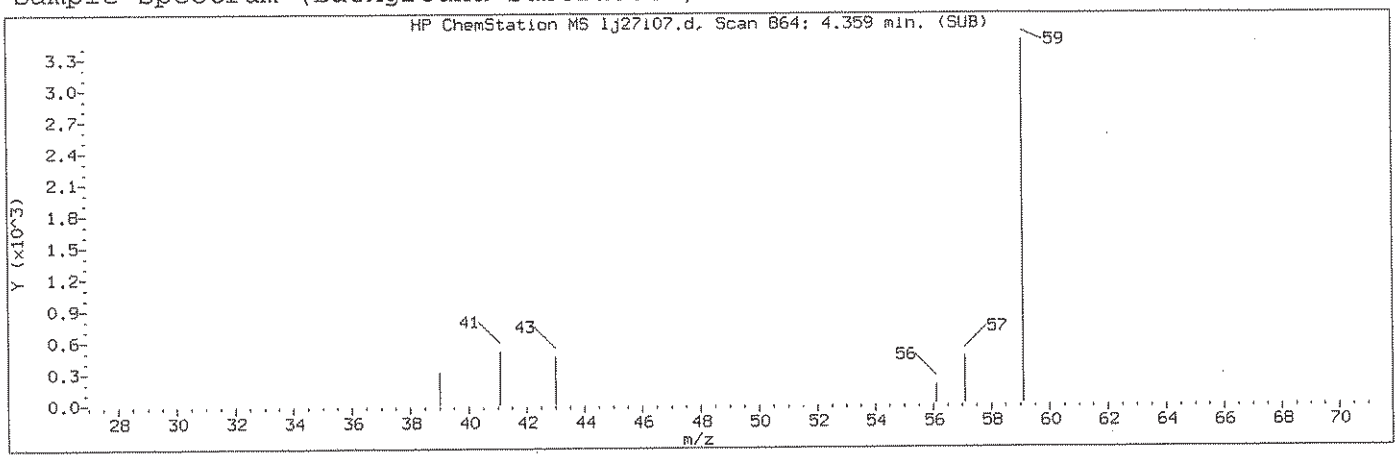
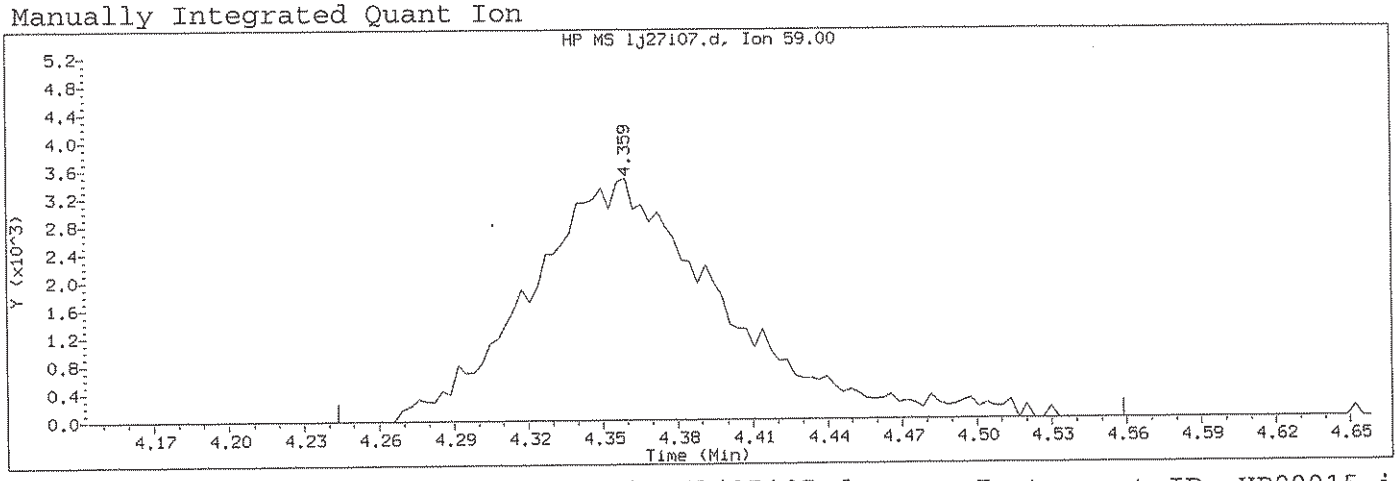
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

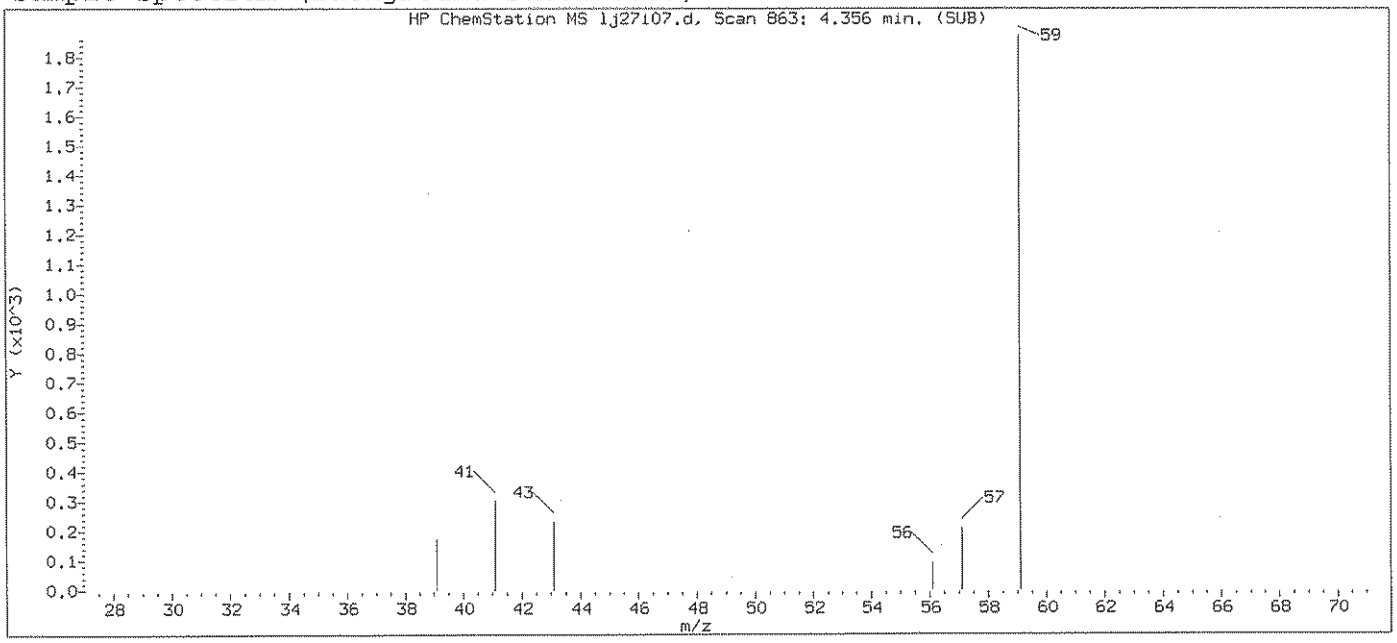
Compound Number	: 30		
Compound Name	: t-Butyl alcohol		
Scan Number	: 864		
Retention Time (minutes)	: 4.359		
Quant Ion	: 59.00		
Area (flag)	: 18689M		
On-Column Amount (ng)	: 20.0608		
Integration start scan	: 827	Integration stop scan:	925
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

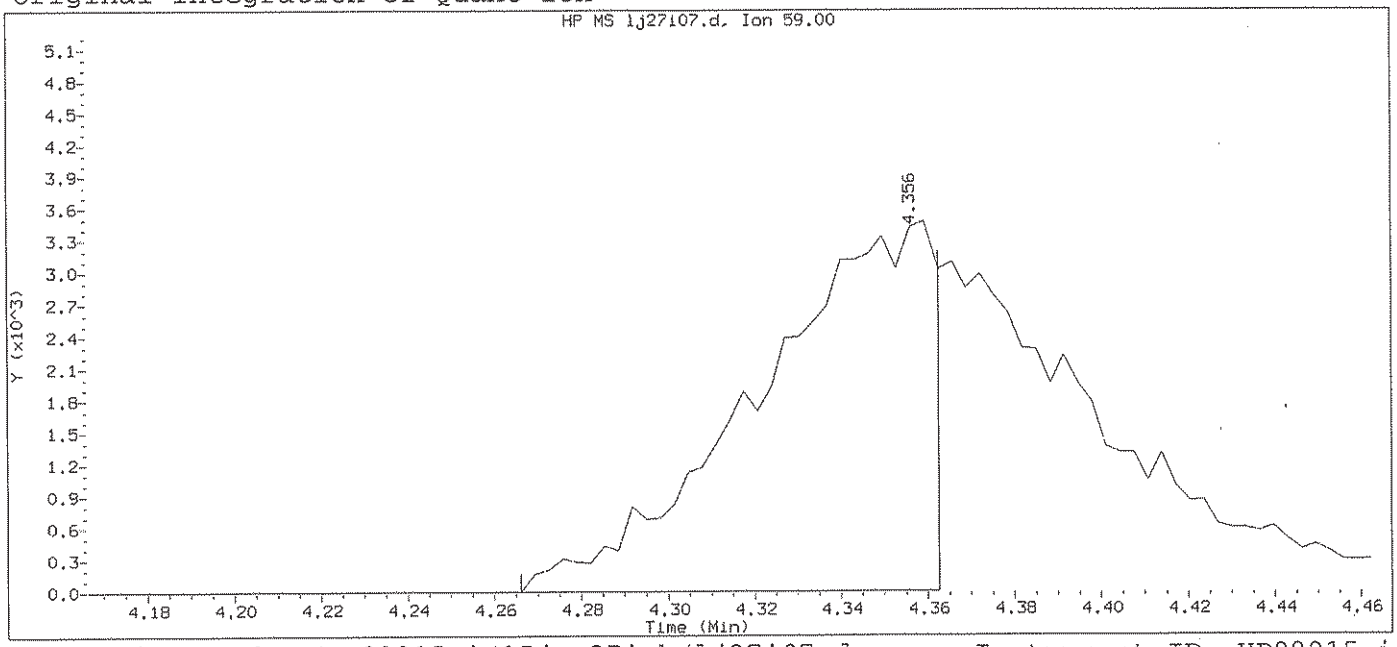
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 30		
Compound Name	: t-Butyl alcohol		
Scan Number	: 863		
Retention Time (minutes)	: 4.356		
Quant Ion	: 59.00		
Area	: 9649		
On-column Amount (ng)	: 11.2713		
Integration start scan	: 834	Integration stop scan:	864
Y at integration start	: 0	Y at integration end:	0

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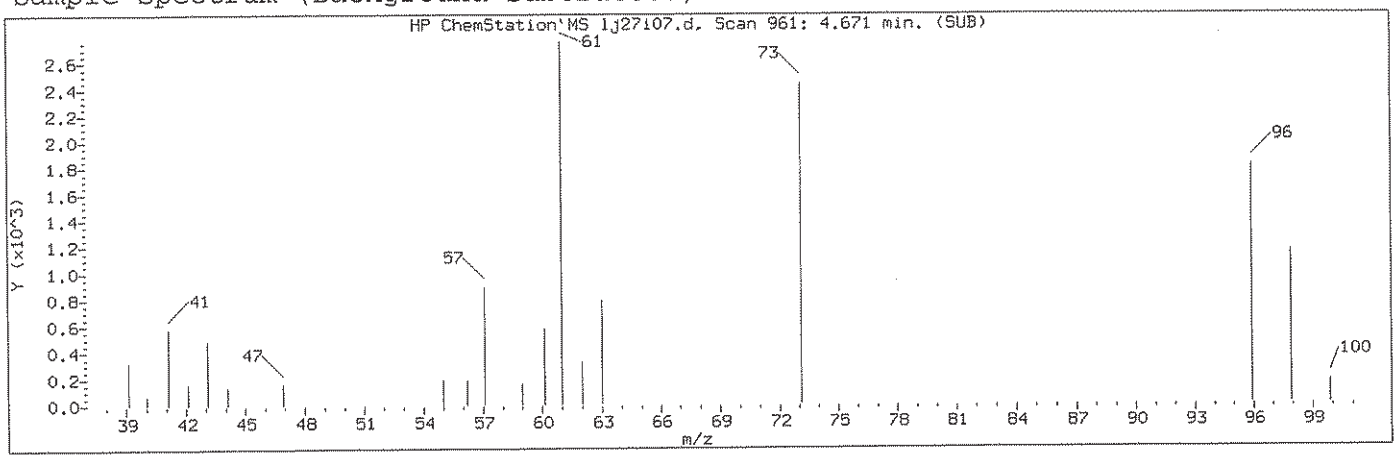
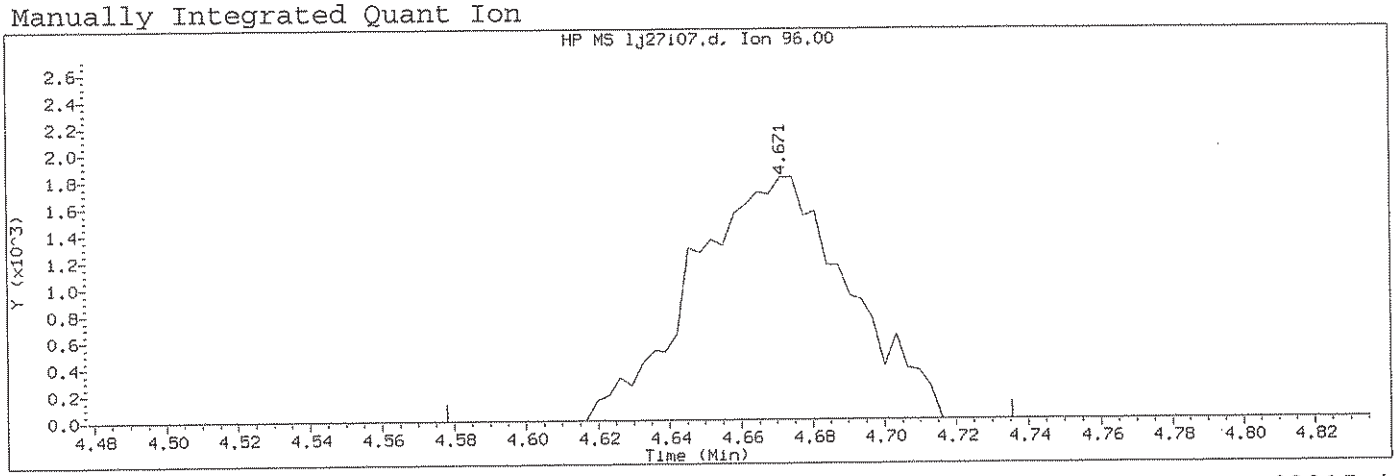
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

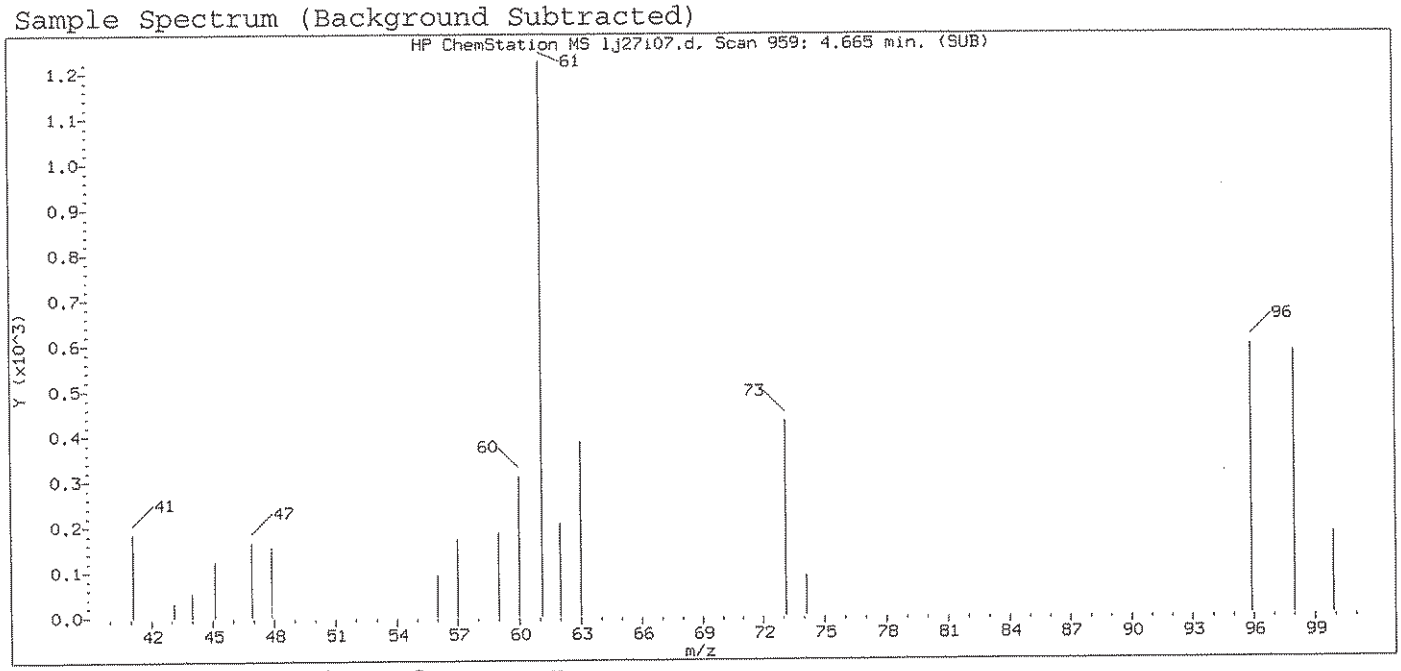
Compound Number	: 32		
Compound Name	: trans-1,2-Dichloroethene		
Scan Number	: 961		
Retention Time (minutes)	: 4.671		
Quant Ion	: 96.00		
Area (flag)	: 5497M		
On-Column Amount (ng)	: 0.9873		
Integration start scan	: 931	Integration stop scan:	980
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

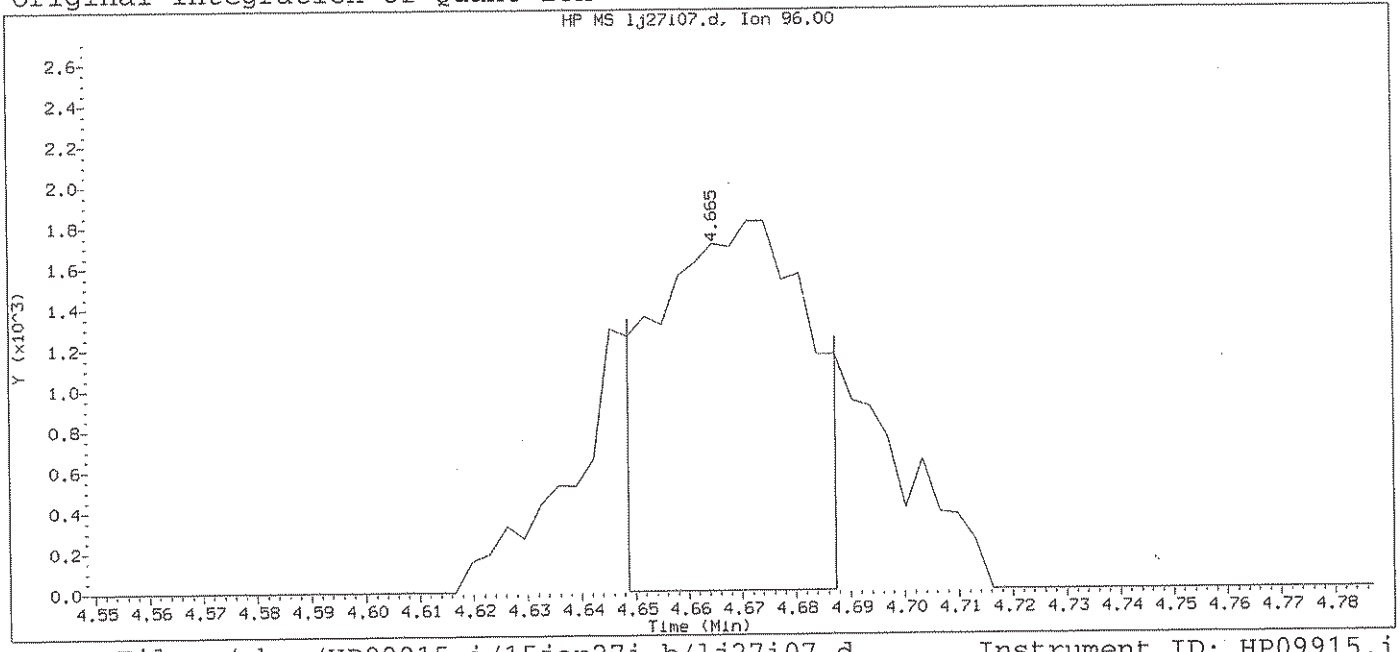
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 32		
Compound Name	: trans-1,2-Dichloroethene		
Scan Number	: 959		
Retention Time (minutes)	: 4.665		
Quant Ion	: 96.00		
Area	: 3534		
On-column Amount (ng)	: 0.6994		
Integration start scan	: 953	Integration stop scan:	965
Y at integration start	: 0	Y at integration end:	0

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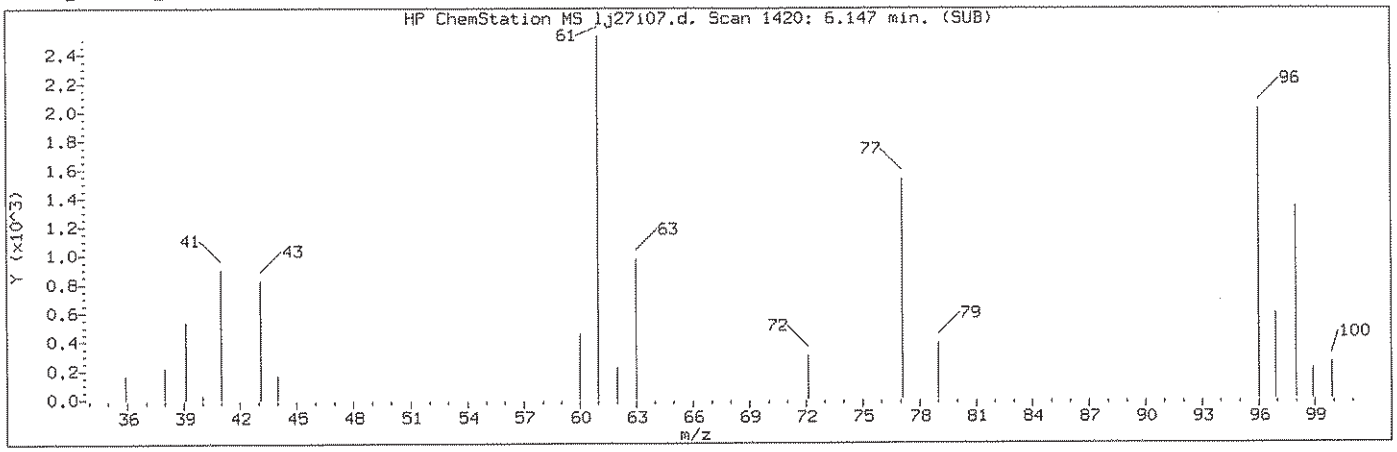
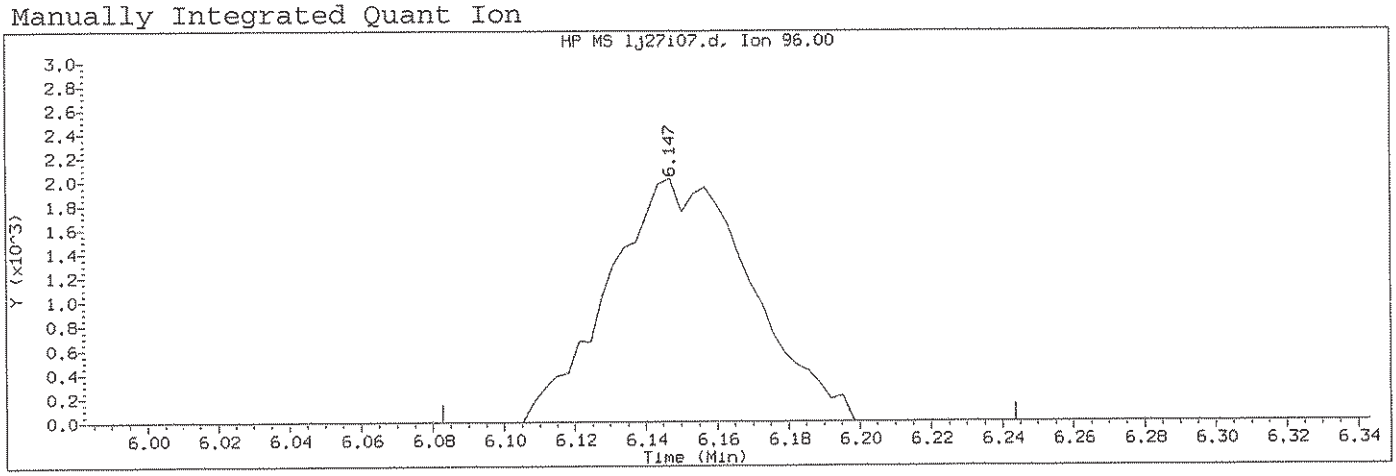
Target 3.5 esignature user: Page: 0274

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

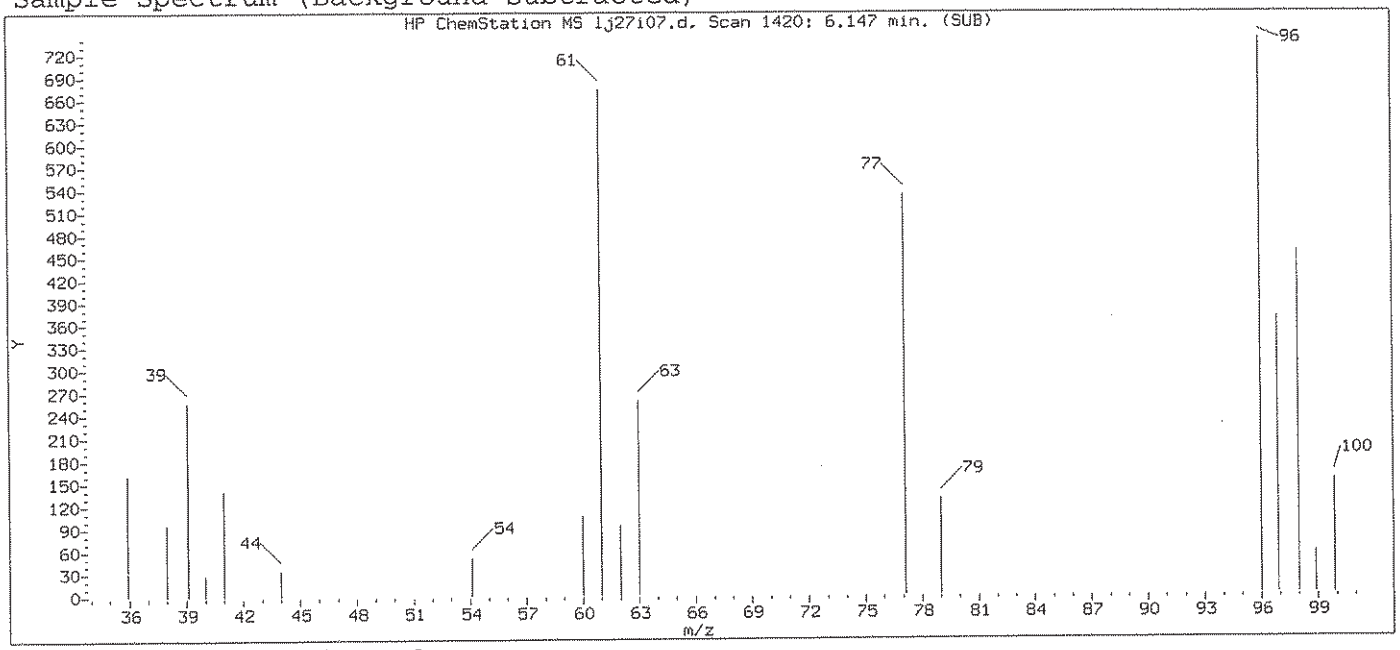
Compound Number	: 42		
Compound Name	: cis-1,2-Dichloroethene		
Scan Number	: 1420		
Retention Time (minutes)	: 6.147		
Quant Ion	: 96.00		
Area (flag)	: 5604M		
On-Column Amount (ng)	: 0.9145		
Integration start scan	: 1399	Integration stop scan:	1449
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

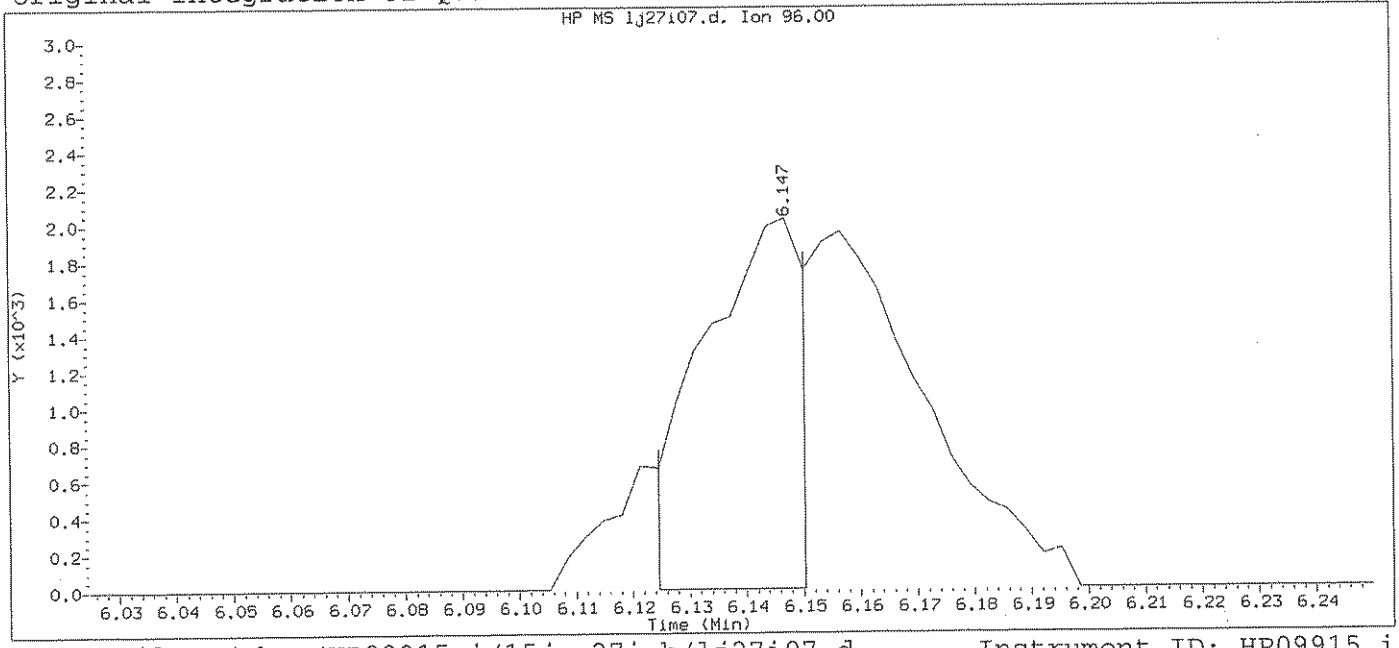
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 42		
Compound Name	: cis-1,2-Dichloroethene		
Scan Number	: 1420		
Retention Time (minutes)	: 6.147		
Quant Ion	: 96.00		
Area	: 2358		
On-column Amount (ng)	: 0.4765		
Integration start scan	: 1412	Integration stop scan:	1420
Y at integration start	: 0	Y at integration end:	0

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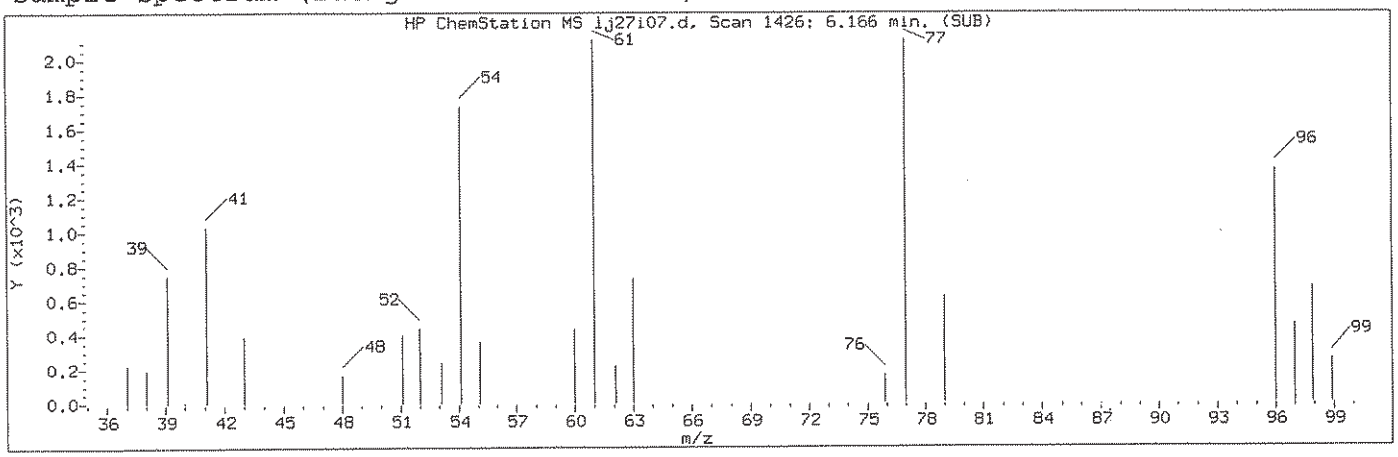
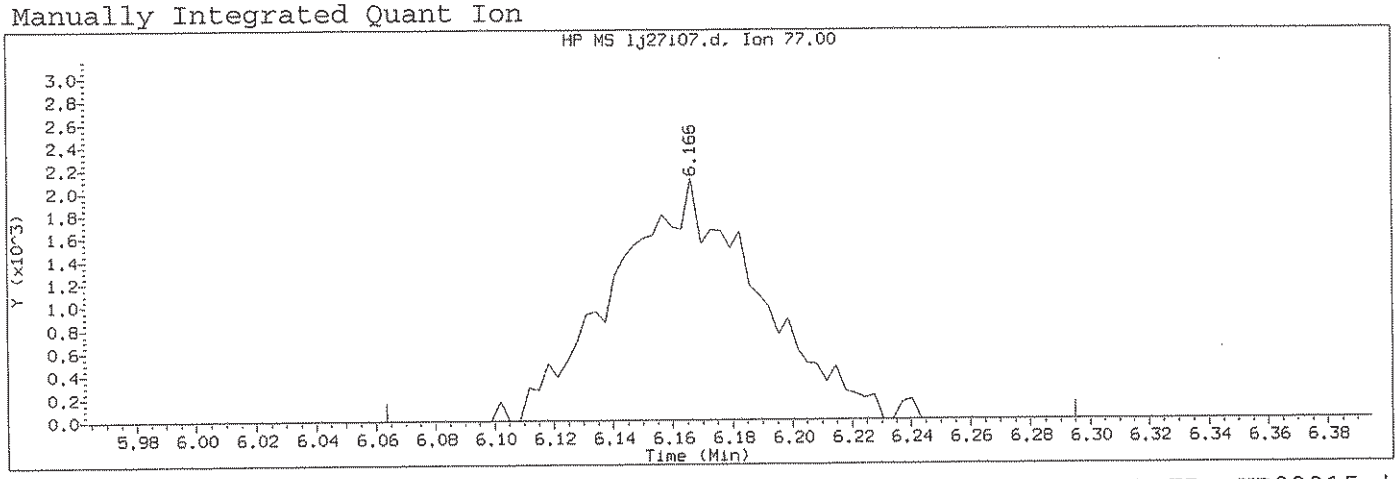
Target 3.5 esignature use[illegible] Page 03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

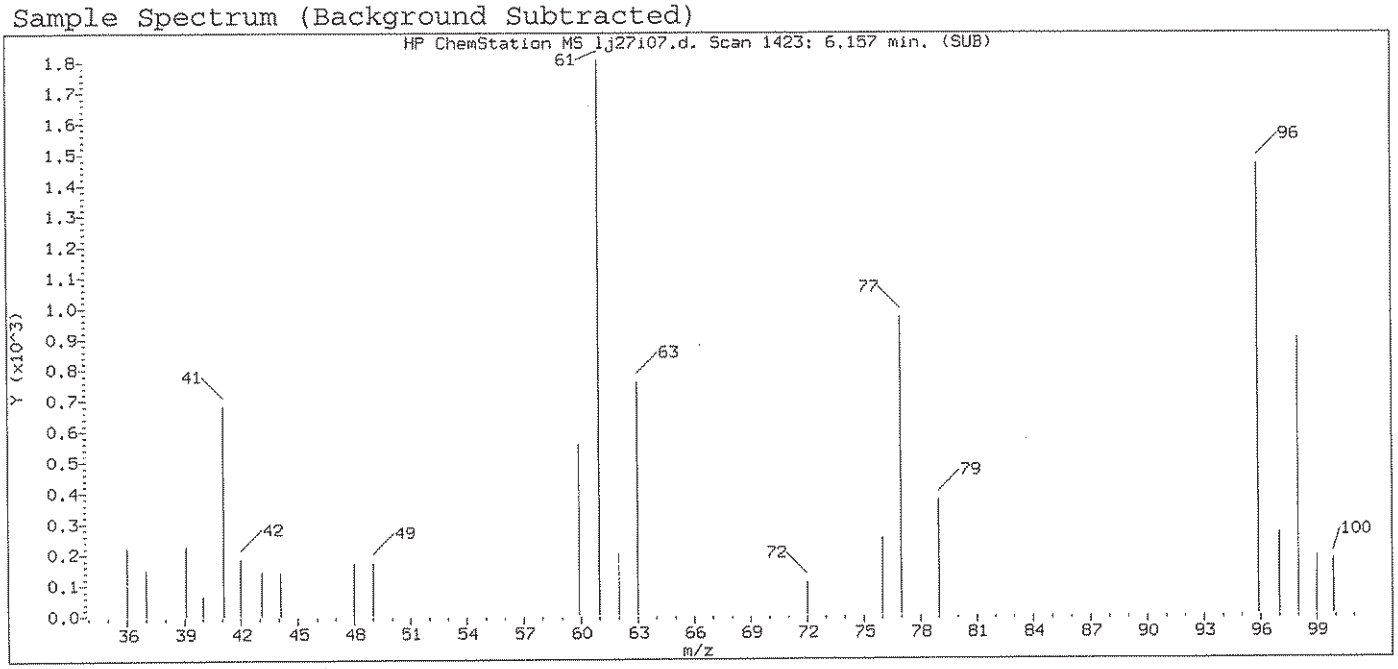
Compound Number	: 45		
Compound Name	: 2,2-Dichloropropane		
Scan Number	: 1426		
Retention Time (minutes)	: 6.166		
Quant Ion	: 77.00		
Area (flag)	: 7104M		
On-Column Amount (ng)	: 0.9145		
Integration start scan	: 1393	Integration stop scan:	1465
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

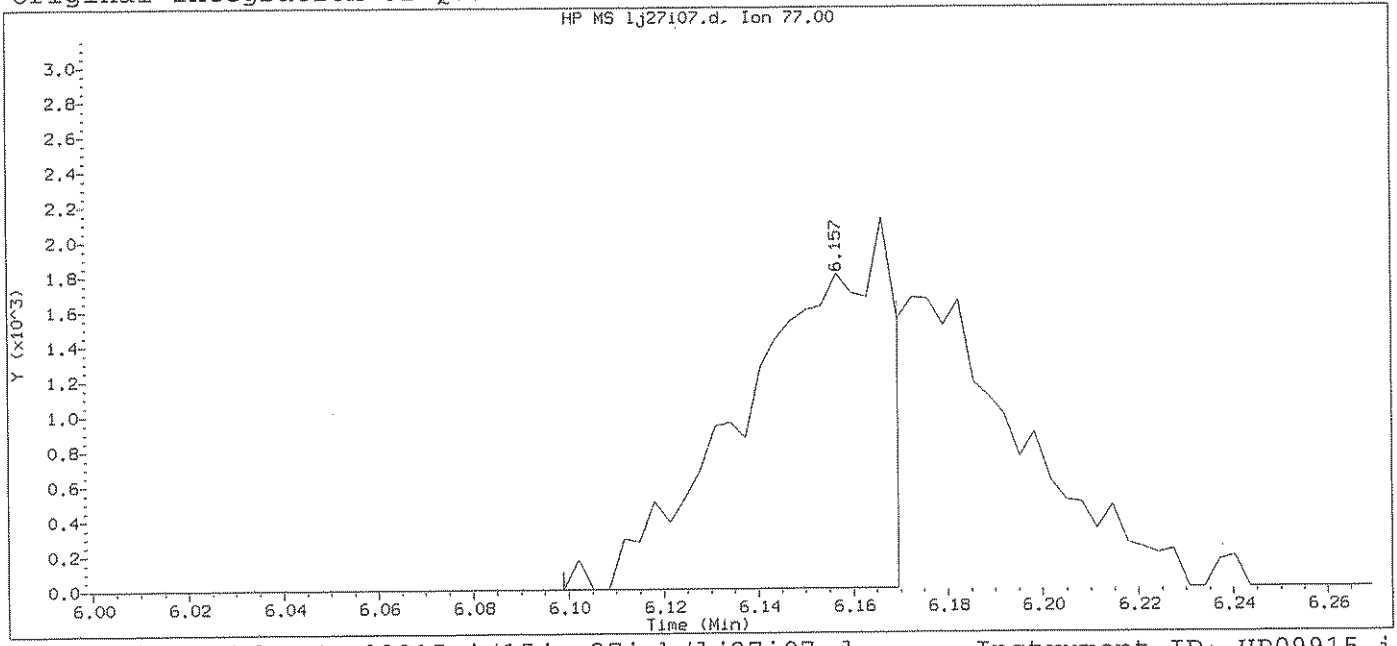
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 45		
Compound Name	: 2,2-Dichloropropane		
Scan Number	: 1423		
Retention Time (minutes)	: 6.157		
Quant Ion	: 77.00		
Area	: 4059		
On-column Amount (ng)	: 0.5622		
Integration start scan	: 1404	Integration stop scan:	1426
Y at integration start	: 0	Y at integration end:	0

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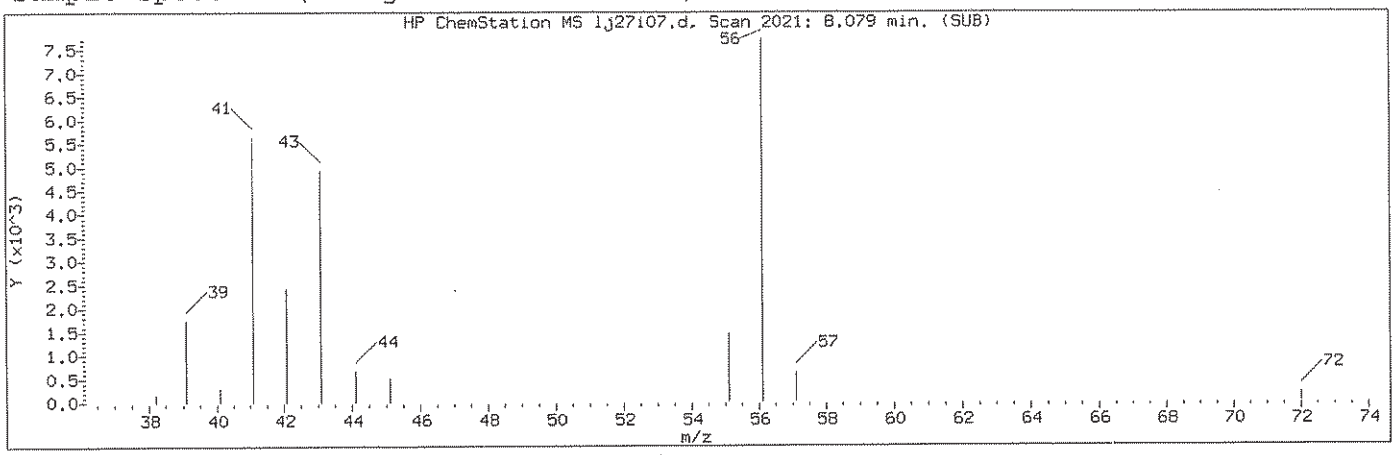
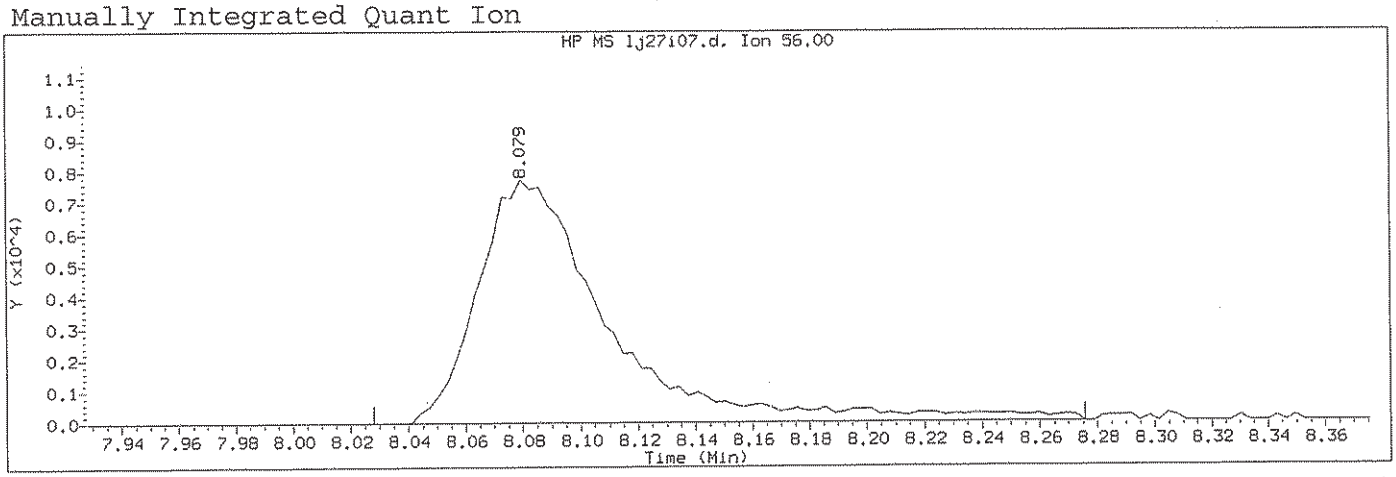
Target 3.5 esignature use[illegible] Page 03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

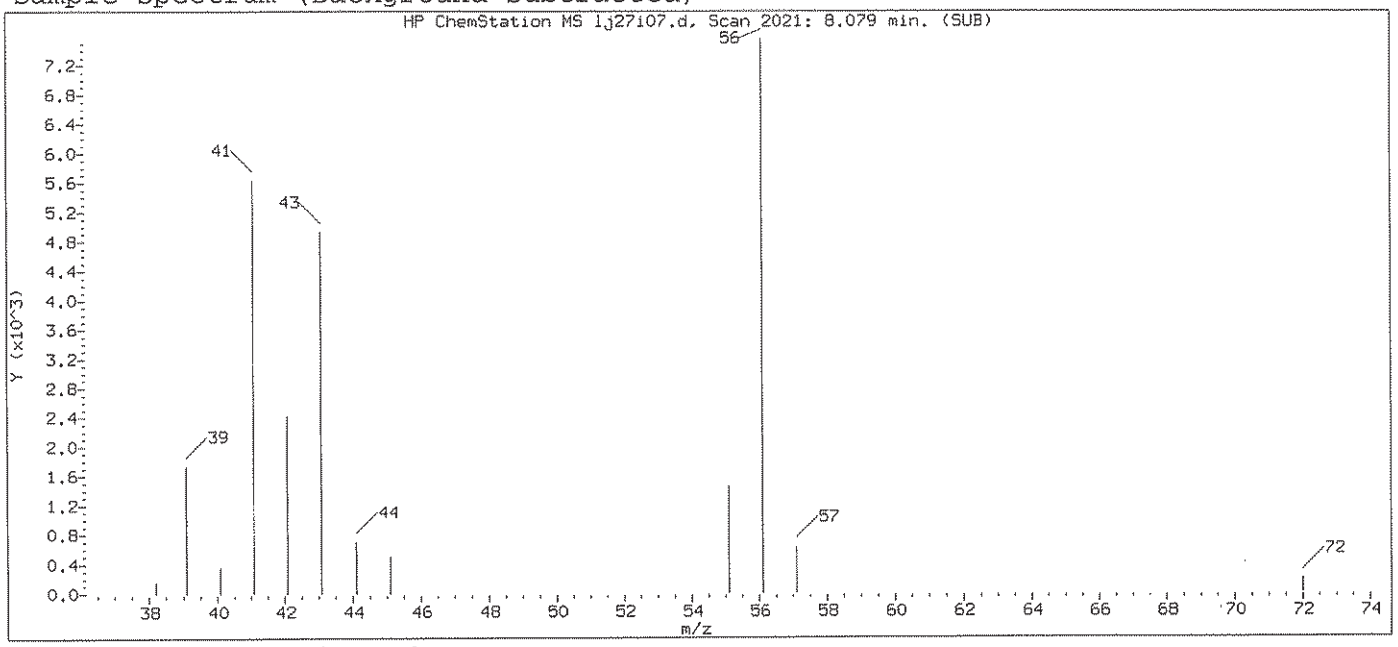
Compound Number	: 69		
Compound Name	: n-Butanol		
Scan Number	: 2021		
Retention Time (minutes)	: 8.079		
Quant Ion	: 56.00		
Area (flag)	: 24313M		
On-Column Amount (ng)	: 88.4062		
Integration start scan	: 2004	Integration stop scan:	2081
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

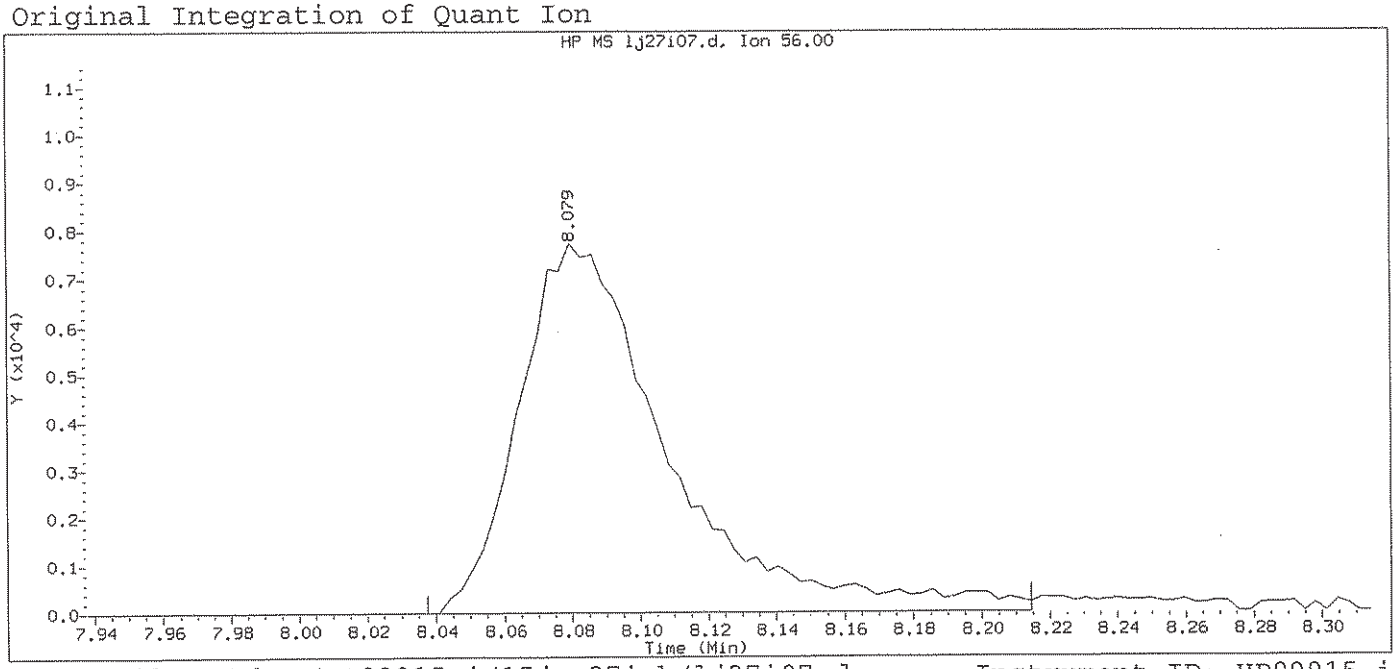
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

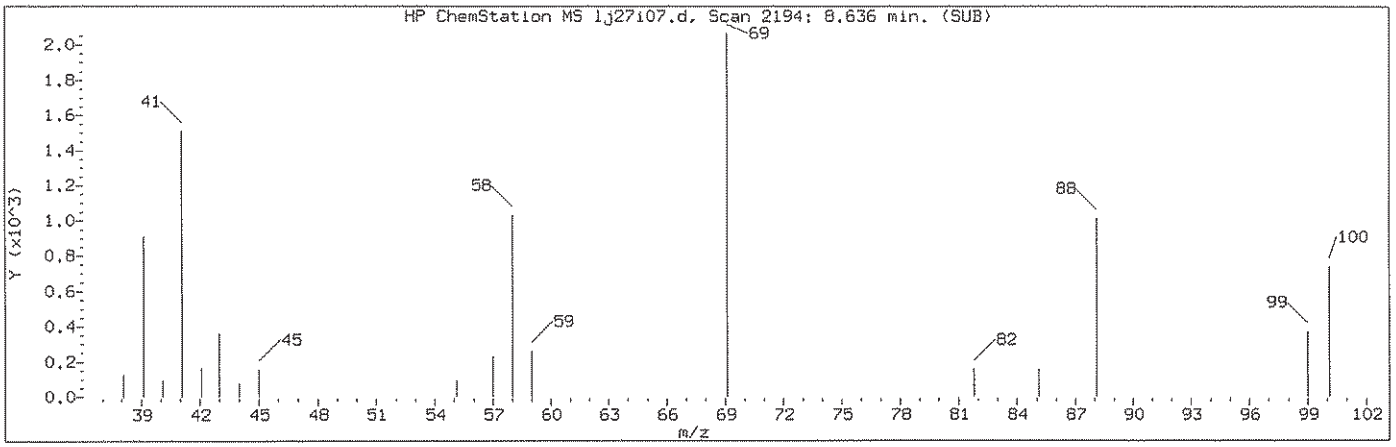
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

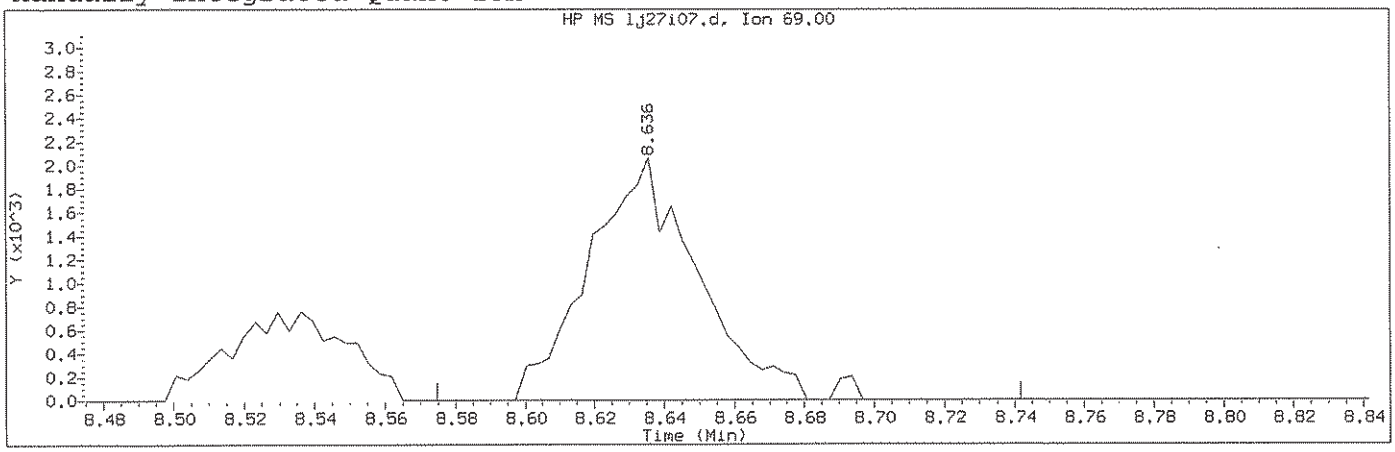
Compound Number	: 69		
Compound Name	: n-Butanol		
Scan Number	: 2021		
Retention Time (minutes)	: 8.079		
Quant Ion	: 56.00		
Area	: 23465		
On-column Amount (ng)	: 85.9653		
Integration start scan	: 2007	Integration stop scan:	2062
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

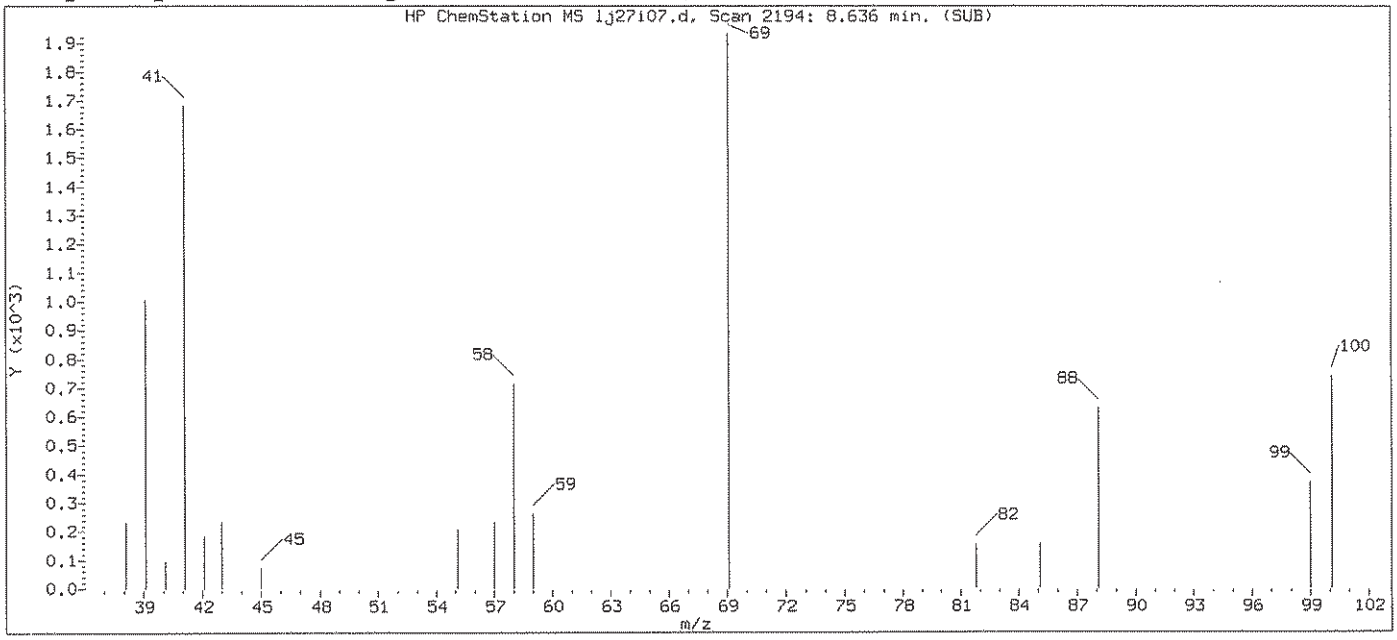
Compound Number	: 76		
Compound Name	: Methyl Methacrylate		
Scan Number	: 2194		
Retention Time (minutes)	: 8.636		
Quant Ion	: 69.00		
Area (flag)	: 4520M		
On-Column Amount (ng)	: 0.8539		
Integration start scan	: 2174	Integration stop scan:	2226
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

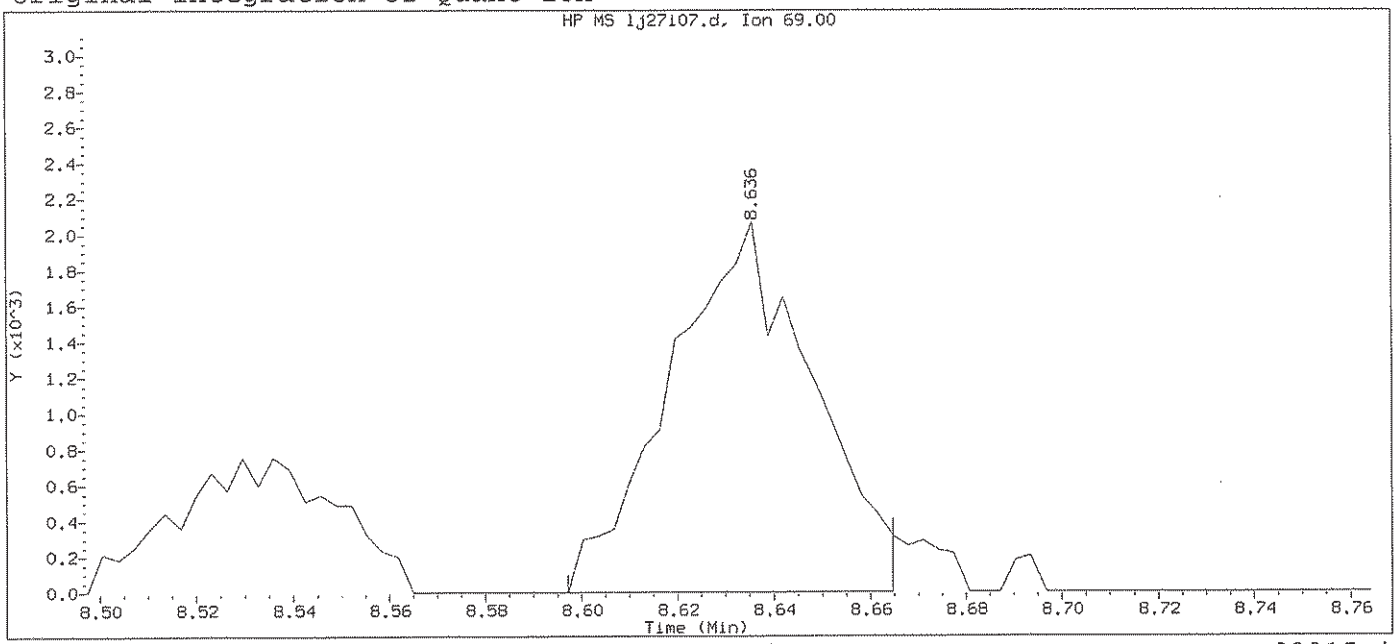
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

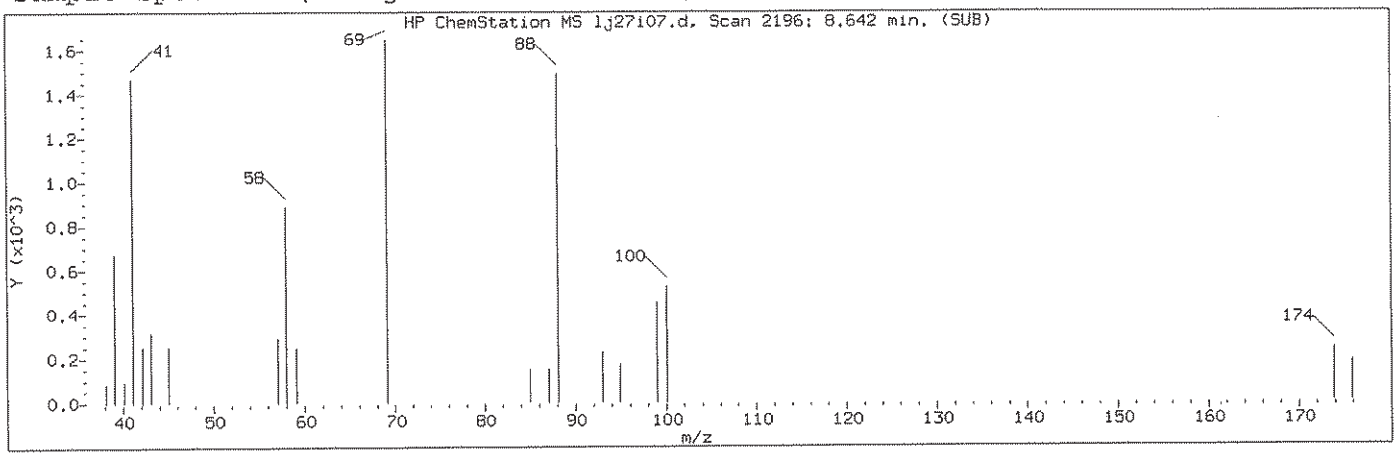
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

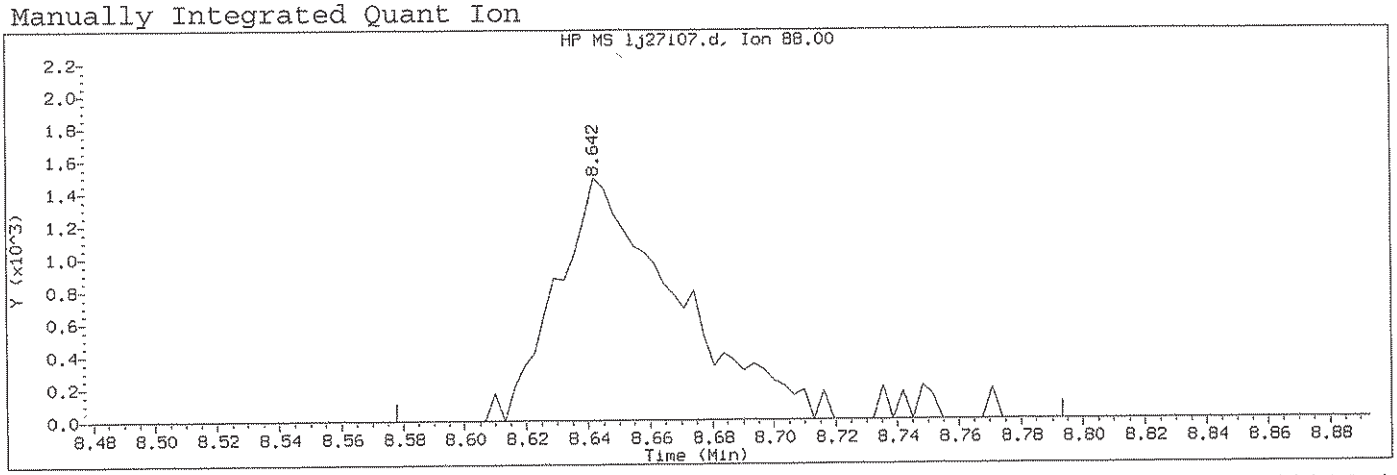
Compound Number	: 76		
Compound Name	: Methyl Methacrylate		
Scan Number	: 2194		
Retention Time (minutes)	: 8.636		
Quant Ion	: 69.00		
Area	: 4222		
On-column Amount (ng)	: 0.8085		
Integration start scan	: 2181	Integration stop scan:	2202
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

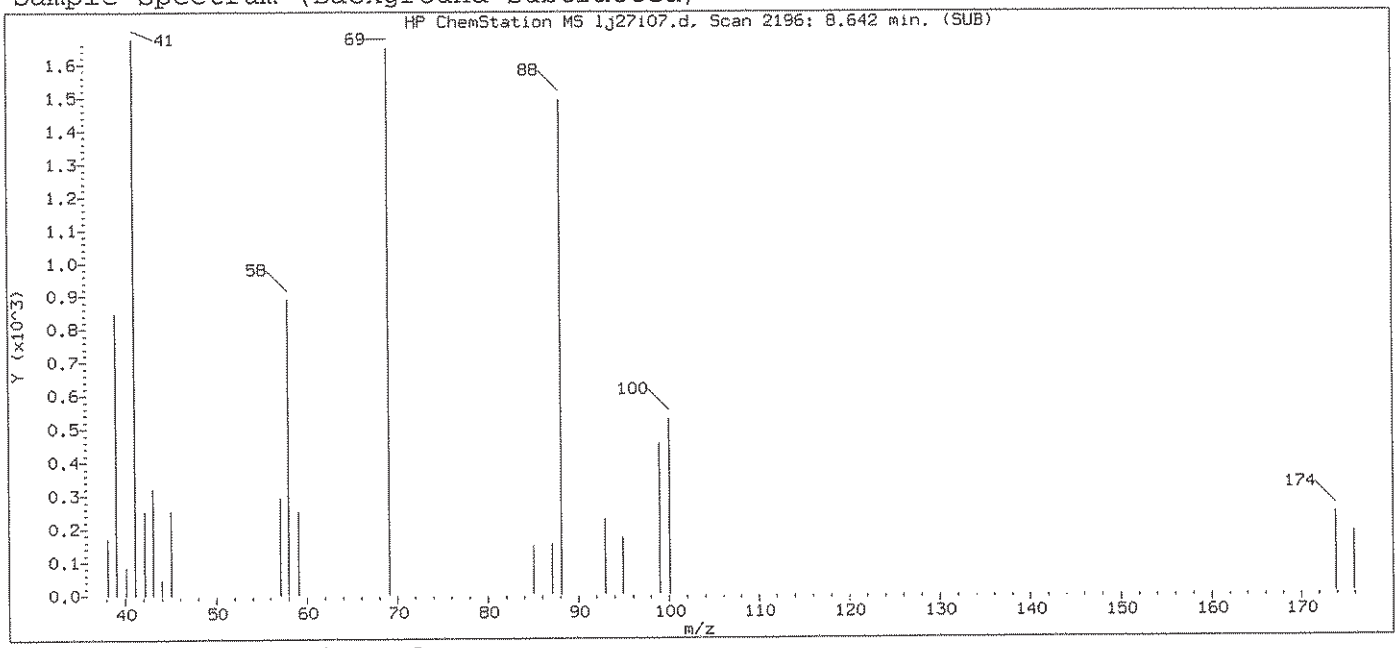
Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2196		
Retention Time (minutes)	: 8.642		
Quant Ion	: 88.00		
Area (flag)	: 4207M		
On-Column Amount (ng)	: 44.7512		
Integration start scan	: 2175	Integration stop scan:	2242
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

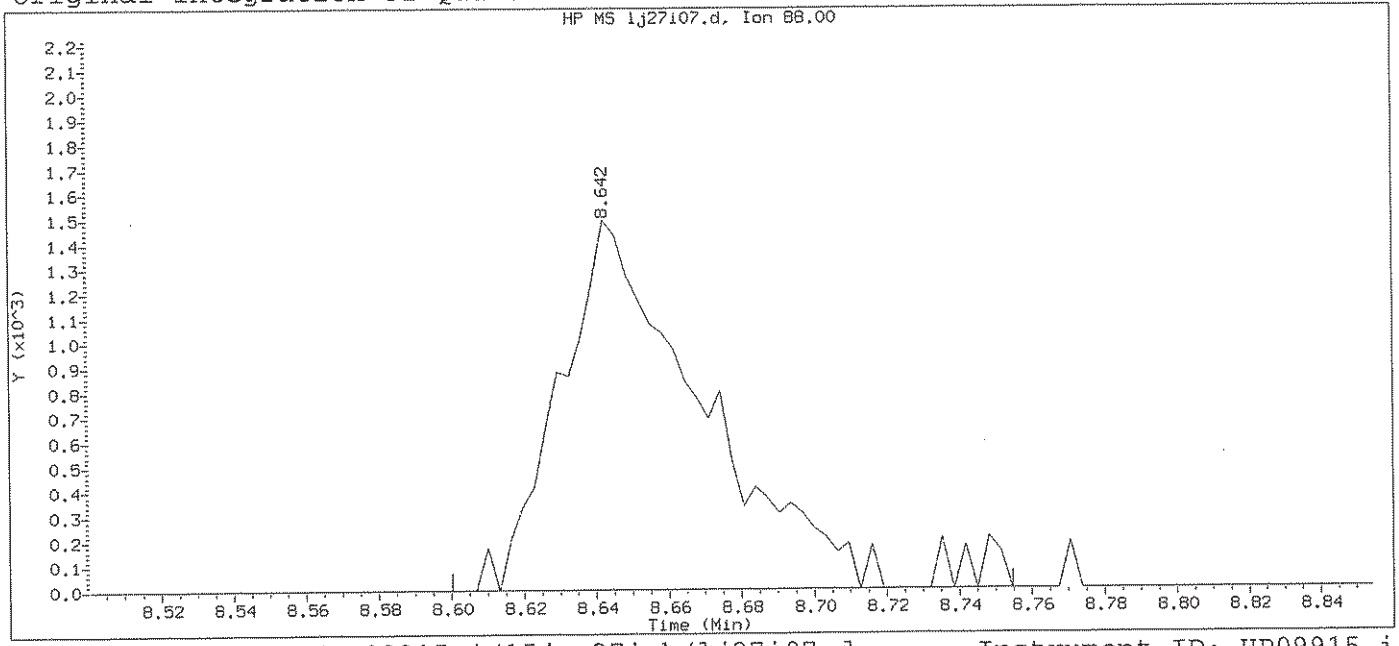
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2196		
Retention Time (minutes)	: 8.642		
Quant Ion	: 88.00		
Area	: 4170		
On-column Amount (ng)	: 44.9995		
Integration start scan	: 2182	Integration stop scan:	2230
Y at integration start	: 0	Y at integration end:	0

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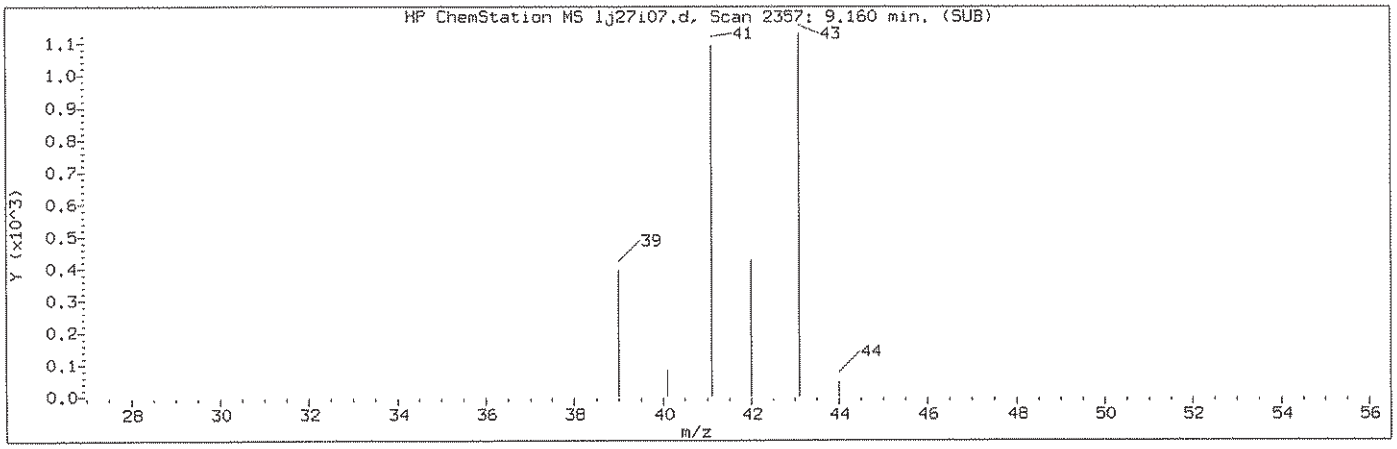
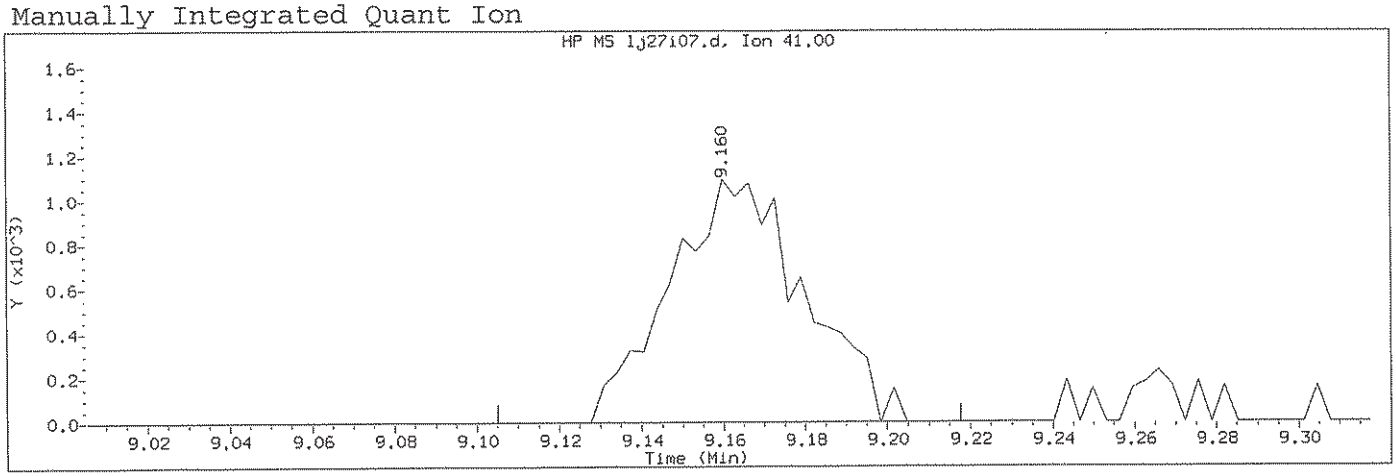
Target 3.5 esignature using PDF Page 03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

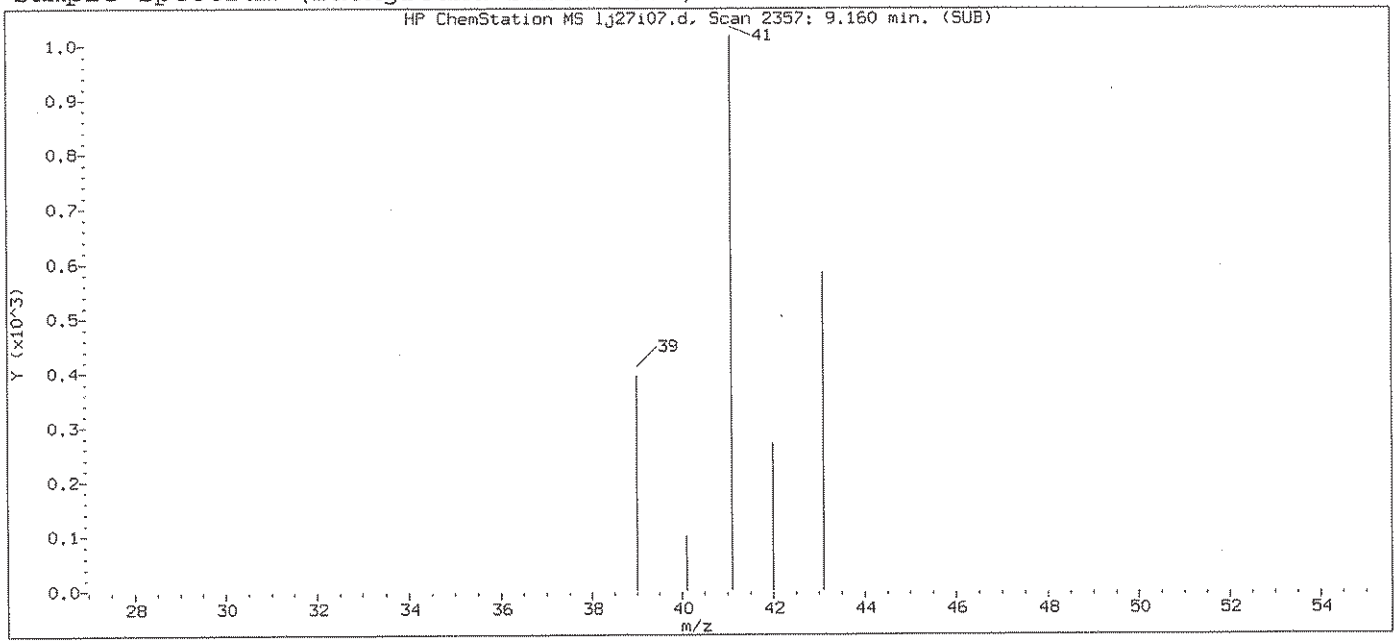
Compound Number : 79
Compound Name : 2-Nitropropane
Scan Number : 2357
Retention Time (minutes): 9.160
Quant Ion : 41.00
Area (flag) : 2497M
On-Column Amount (ng) : 4.7543
Integration start scan : 2339 Integration stop scan: 2374
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

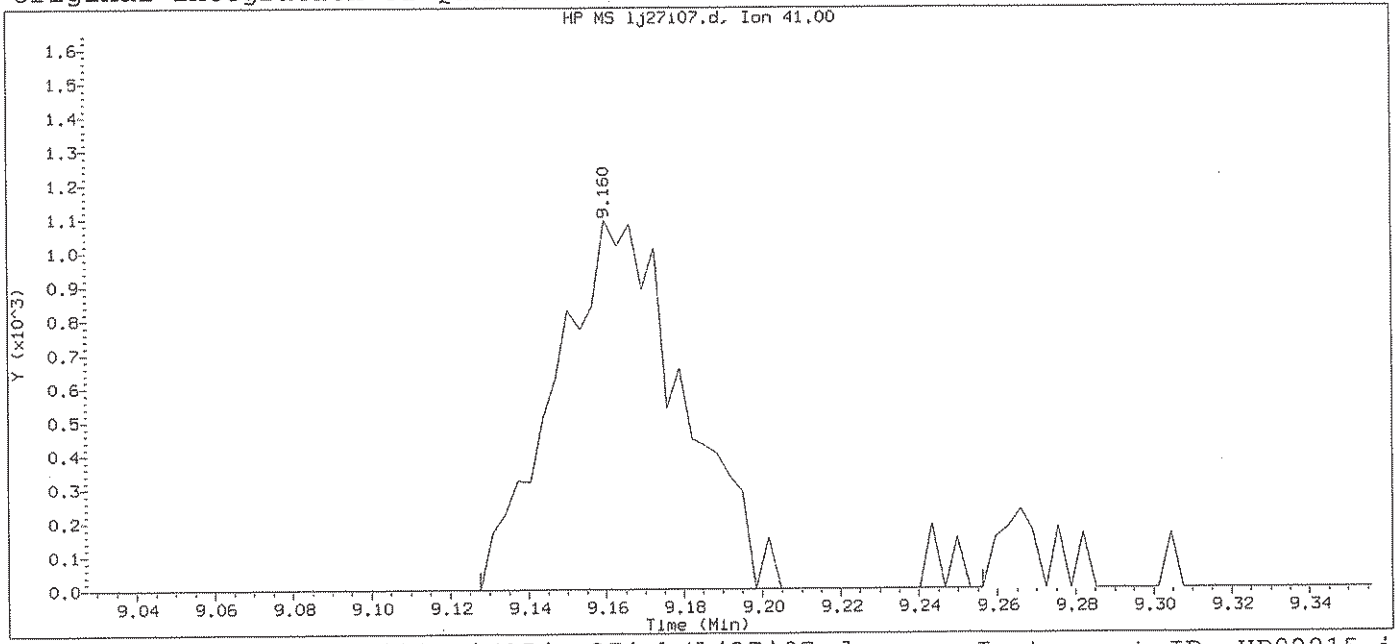
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 79		
Compound Name	: 2-Nitropropane		
Scan Number	: 2357		
Retention Time (minutes)	: 9.160		
Quant Ion	: 41.00		
Area	: 2563		
On-column Amount (ng)	: 1.5134		
Integration start scan	: 2346	Integration stop scan:	2386
Y at integration start	: 0	Y at integration end:	0

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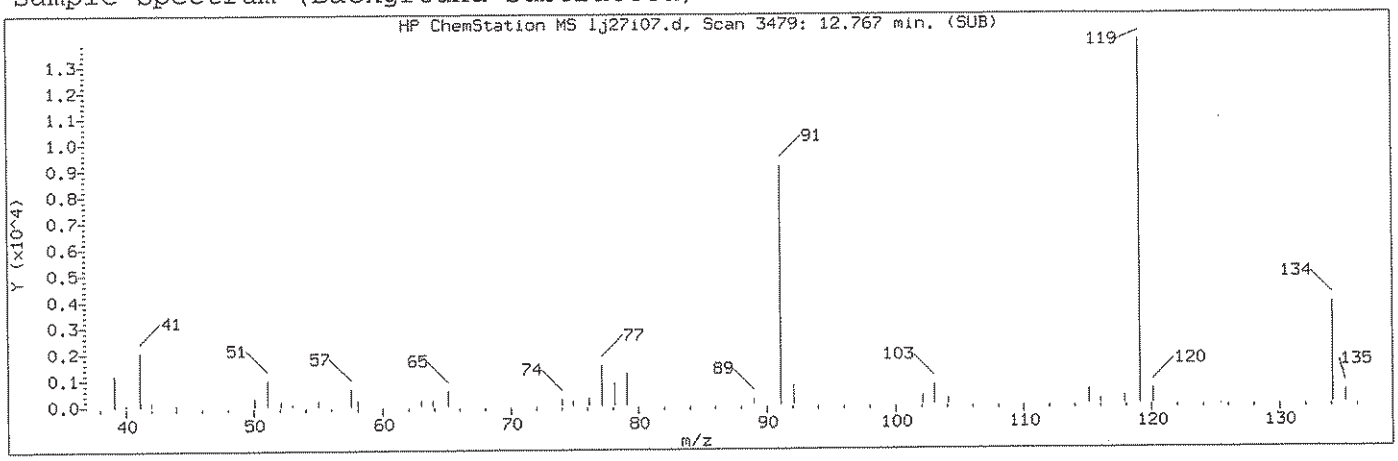
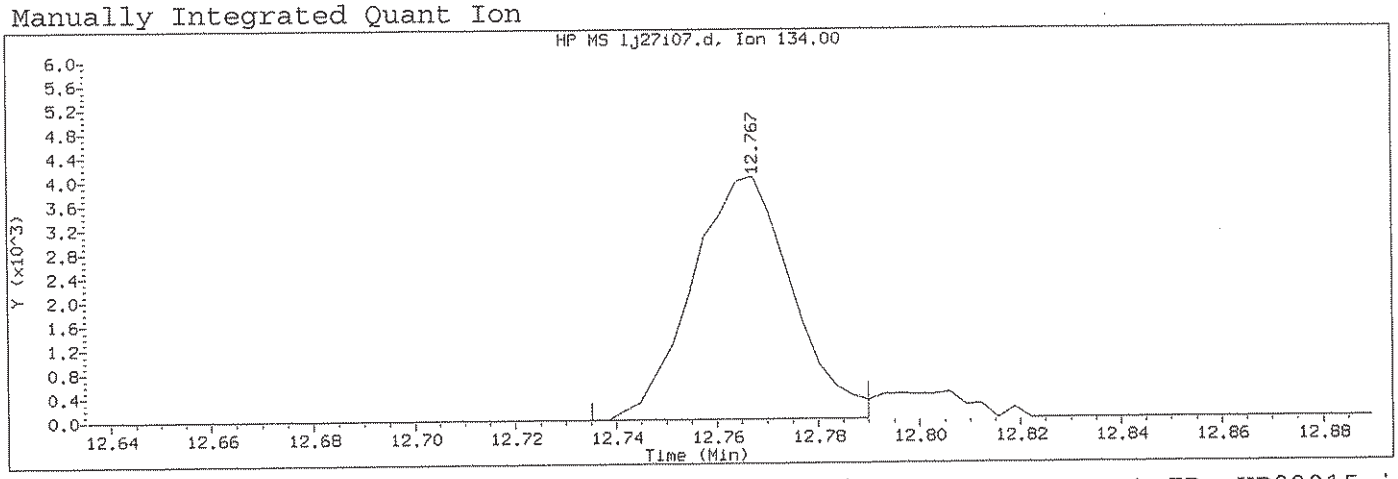
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

Sample Name: VSTD001 Lab Sample ID: VSTD001

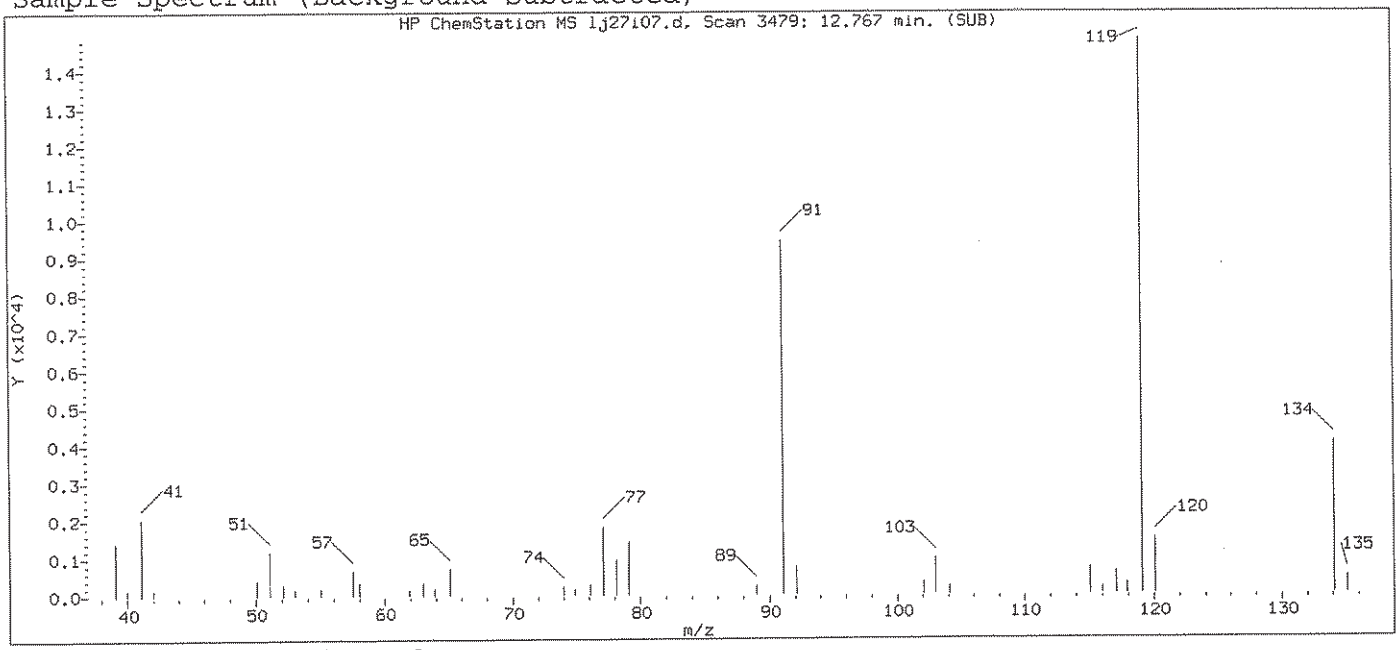
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3479		
Retention Time (minutes)	: 12.767		
Quant Ion	: 134.00		
Area (flag)	: 5570M		
On-Column Amount (ng)	: 1.1037		
Integration start scan	: 3468	Integration stop scan:	3485
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

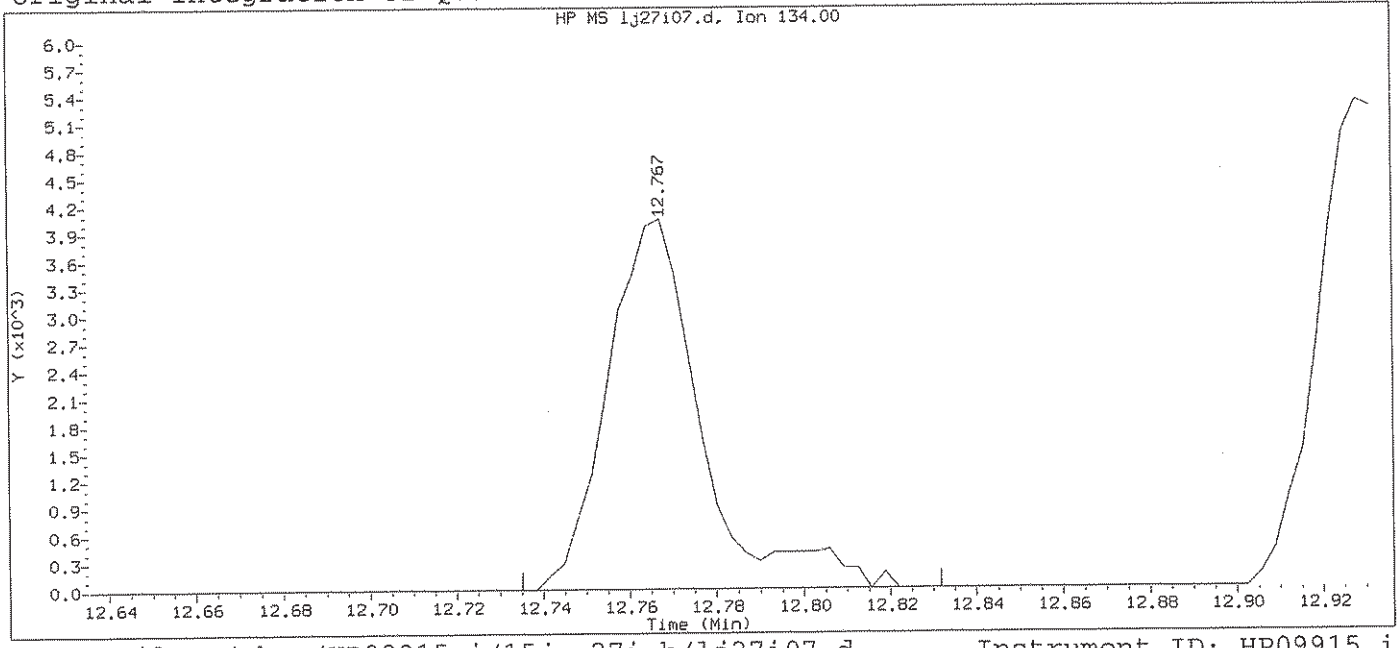
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

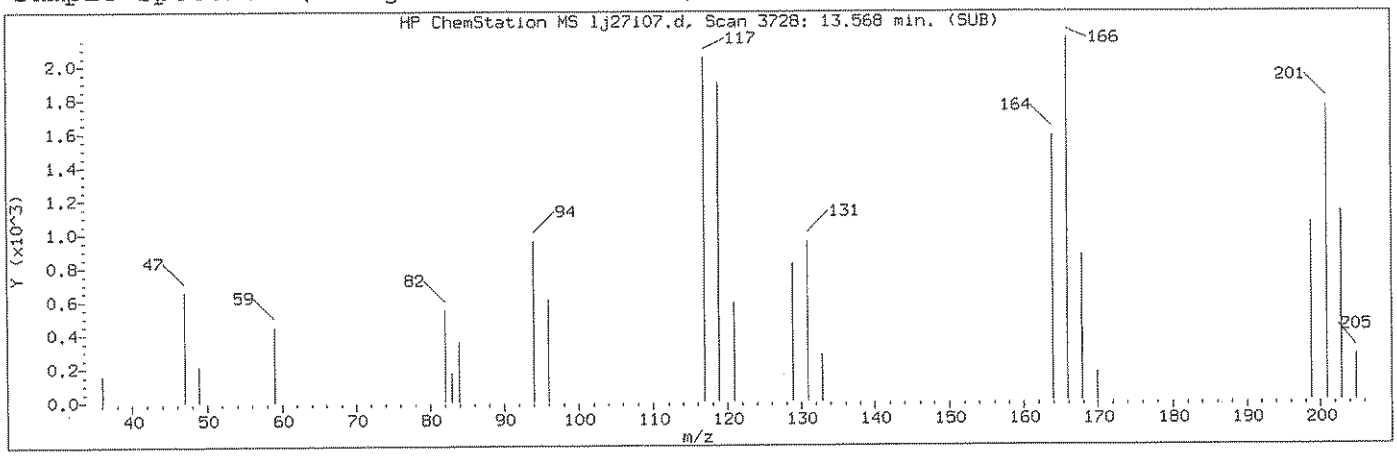
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W
Calibration date and time: 03-FEB-2015 16:26
Date, time and analyst ID of latest file update: 03-Feb-2015 16:26 akr02850

Sample Name: VSTD001 Lab Sample ID: VSTD001

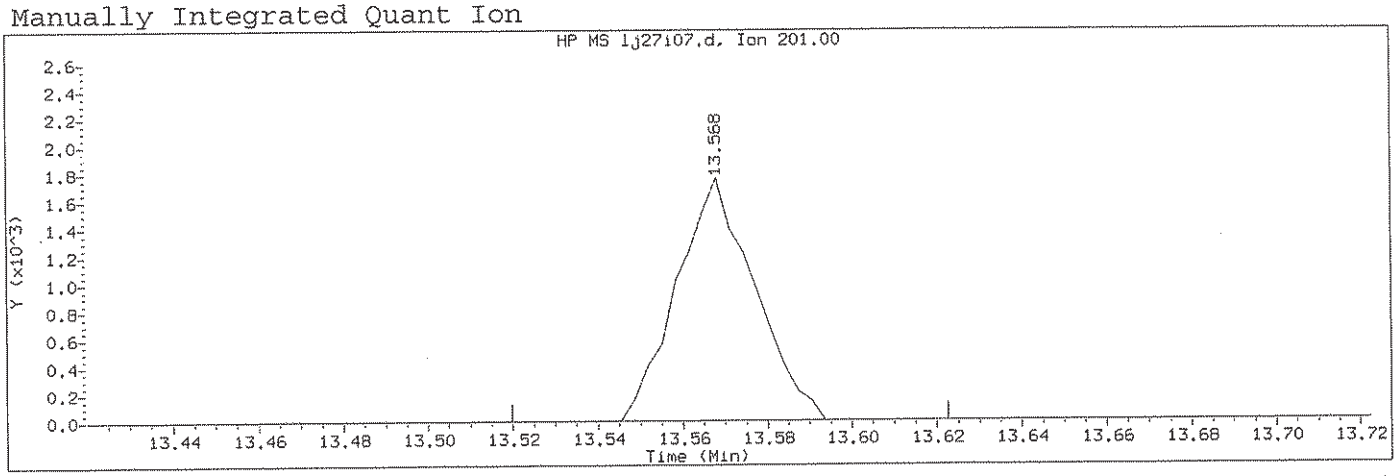
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3479		
Retention Time (minutes)	: 12.767		
Quant Ion	: 134.00		
Area	: 6086		
On-column Amount (ng)	: 1.1259		
Integration start scan	: 3468	Integration stop scan:	3498
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43.
Target 3.5 esignature used: PIC Page 03154

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27i07.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 17:39 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 08:29 sag03174

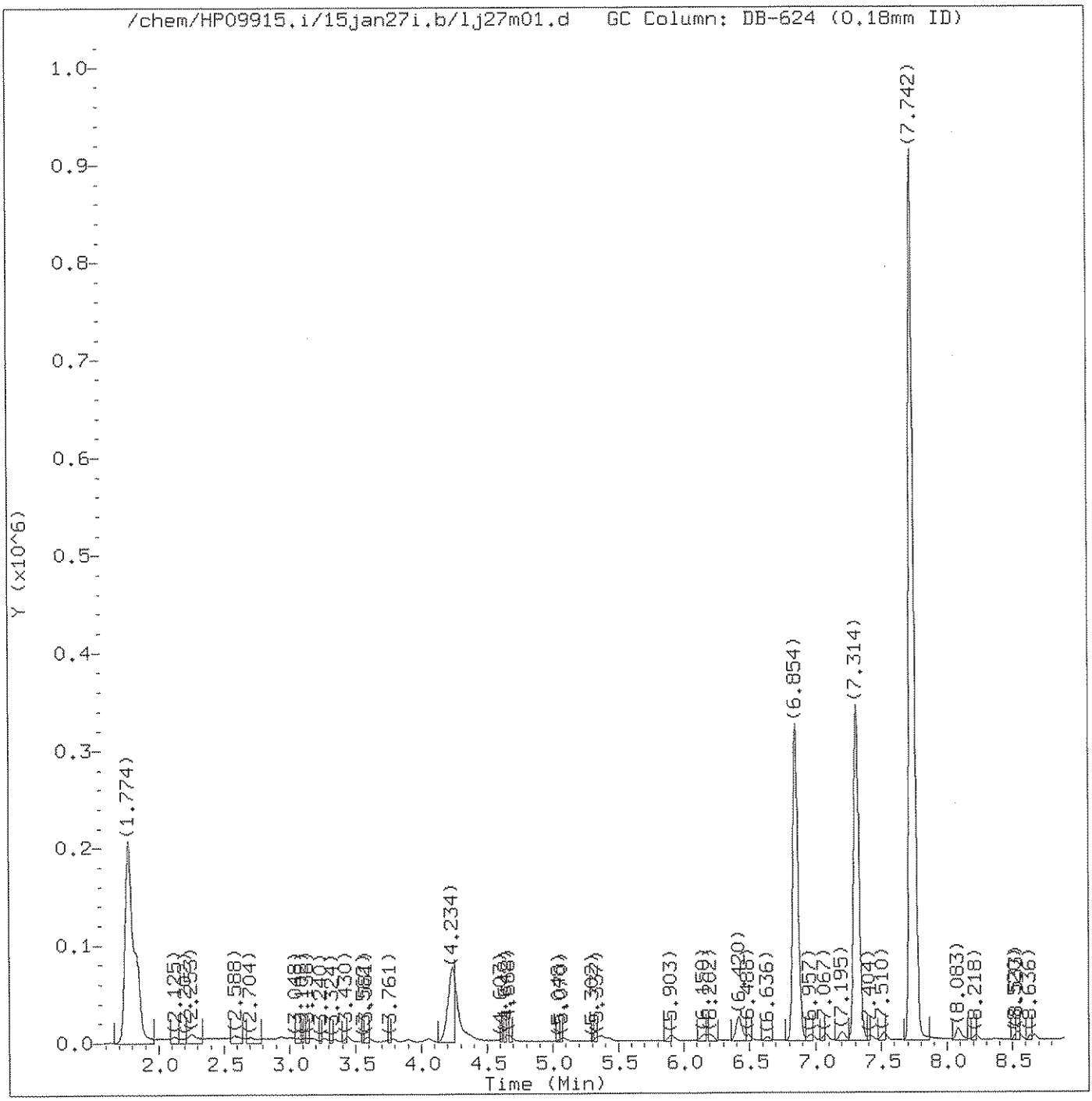
Sample Name: VSTD001 Lab Sample ID: VSTD001

Compound Number	: 145		
Compound Name	: Hexachloroethane		
Scan Number	: 3728		
Retention Time (minutes)	: 13.568		
Quant Ion	: 201.00		
Area (flag)	: 2251M		
On-Column Amount (ng)	: 0.6474		
Integration start scan	: 3712	Integration stop scan:	3744
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: compound not in processing sublist

Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 08:43. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15



Total Ion Chromatogram (TIC)

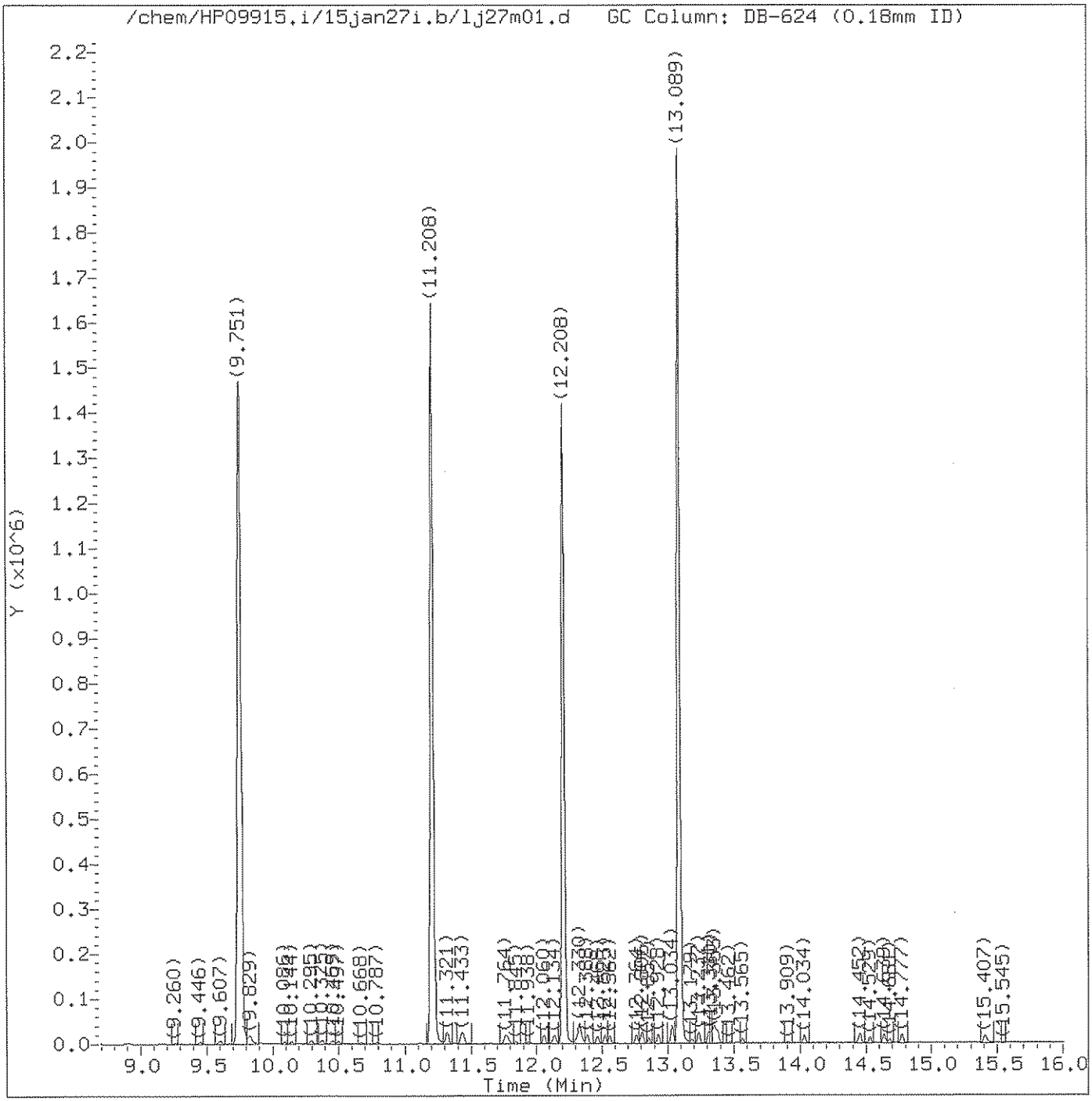
Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.990	85	2085	0.306
4) Chloromethane	(2)	2.112	50	3055M	0.423
6) Vinyl Chloride	(2)	2.247	62	2704	0.404
8) Bromomethane	(2)	2.588	94	1767M	0.443
9) Chloroethane	(2)	2.697	64	1722M	0.476
43) 1,2-Dichloroethene (Total)	(2)		96	4778	0.824
10) Dichlorofluoromethane	(2)	2.935	67	4174	0.454
12) Trichlorofluoromethane	(2)	3.006	101	2615	0.361
14) Ethyl ether	(2)	3.266	59	2487	0.465
15) Freon 123a	(2)	3.337	67	2610	0.401
16) Acrolein	(1)	3.440	56	7354	4.499
17) 1,1-Dichloroethene	(2)	3.581	96	1769M	0.365
19) Freon 113	(2)	3.597	101	1669	0.340
18) Acetone	(1)	3.597	58	463M	0.703
21) 2-Propanol	(1)	3.761	45	5658M	10.093
22) Methyl Iodide	(2)	3.787	142	3685	0.420
23) Carbon Disulfide	(2)	3.900	76	5860M	0.362
27) Methyl Acetate	(2)	4.035	43	2688	0.481
25) Allyl Chloride	(2)	4.070	41	3408M	0.409
29)*t-Butyl alcohol-d10	(1)	4.234	65	216669	250.000
28) Methylene Chloride	(2)	4.253	84	7363	0.714
30) t-Butyl alcohol	(1)	4.369	59	8906M	9.663
31) Acrylonitrile	(2)	4.594	53	975	0.342
33) Methyl Tertiary Butyl Ether	(2)	4.642	73	8194	0.459
32) trans-1,2-Dichloroethene	(2)	4.678	96	2212M	0.401
34) n-Hexane	(2)	5.080	57	3190M	0.383
36) 1,1-Dichloroethane	(2)	5.327	63	4406	0.433
38) di-Isopropyl ether	(2)	5.372	45	8938	0.466
39) 2-Chloro-1,3-butadiene	(2)	5.427	53	3086	0.357
90) 1,3-Dichloropropene (total)	(3)		100	6281	0.718
40) Ethyl t-butyl ether	(2)	5.909	59	8252	0.446
44) 2-Butanone	(2)	6.121	43	3327	0.935
42) cis-1,2-Dichloroethene	(2)	6.154	96	2566M	0.423
45) 2,2-Dichloropropane	(2)	6.166	77	2887M	0.375
47) Propionitrile	(1)	6.199	54	11002	9.424
48) Methacrylonitrile	(2)	6.420	67	15001	4.687
49) Bromochloromethane	(2)	6.491	128	1314	0.442
50) Tetrahydrofuran	(1)	6.491	71	678	0.720

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
51) Chloroform	(2)	6.633	83	4359	0.452
53) 1,1,1-Trichloroethane	(2)	6.845	97	3906M	0.427
52)$Dibromofluoromethane	(2)	6.854	113	282694	49.412
54) Cyclohexane	(2)	6.967	56	3811	0.370
55) 1,1-Dichloropropene	(2)	7.076	75	2888	0.379
56) Carbon Tetrachloride	(2)	7.076	117	2401	0.352
58) Isobutyl Alcohol	(1)	7.195	41	7794	25.236
57)$1,2-Dichloroethane-d4	(2)	7.311	102	71406	50.416
60) Benzene	(2)	7.340	78	10179	0.431
61) 1,2-Dichloroethane	(2)	7.417	62	3534	0.474
65) t-Amyl methyl ether	(2)	7.517	73	8575	0.481
66)*Fluorobenzene	(2)	7.742	96	1197374	50.000
67) n-Heptane	(2)	7.748	43	3758	0.427
108) Xylene (Total)	(3)		106	13317	1.232
69) n-Butanol	(1)	8.083	56	10739	39.471
71) Trichloroethene	(2)	8.218	95	2430	0.404
72) Methylcyclohexane	(2)	8.533	83	3800	0.364
73) 1,2-Dichloropropane	(2)	8.562	63	2779	0.443
76) Methyl Methacrylate	(2)	8.633	69	2065M	0.394
75) 1,4-Dioxane	(1)	8.649	88	1709	18.376
74) Dibromomethane	(2)	8.665	93	1747	0.447
78) Bromodichloromethane	(2)	8.899	83	2840	0.393
79) 2-Nitropropane	(2)	9.160	41	1146	4.099
80) 2-Chloroethyl Vinyl Ether	(2)	9.272	63	1779	0.391
81) cis-1,3-Dichloropropene	(2)	9.452	75	3478	0.379
82) 4-Methyl-2-pentanone	(2)	9.607	43	6326	0.814
83)$Toluene-d8	(3)	9.751	98	1159899	49.126
141) Diethylbenzene (total)	(4)		100	19562	1.245
88) Toluene	(3)	9.825	92	6346	0.431
89) trans-1,3-Dichloropropene	(3)	10.096	75	2803	0.339
91) Ethyl Methacrylate	(3)	10.144	69	3582	0.379
92) 1,1,2-Trichloroethane	(3)	10.292	97	2506	0.450
93) Tetrachloroethene	(3)	10.372	166	2635	0.420
94) 1,3-Dichloropropane	(3)	10.452	76	4213	0.436
96) 2-Hexanone	(3)	10.497	43	4063	0.718
97) Dibromochloromethane	(3)	10.674	129	1981	0.353
99) 1,2-Dibromoethane	(3)	10.784	107	2568	0.430
100)*Chlorobenzene-d5	(3)	11.208	117	906835	50.000

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
101) 1-Chlorohexane	(3)	11.211	91	4899	0.609
102) Chlorobenzene	(3)	11.231	112	7064	0.437
104) Ethylbenzene	(3)	11.321	91	11829	0.419
103) 1,1,1,2-Tetrachloroethane	(3)	11.321	131	1966	0.372
106) m+p-Xylene	(3)	11.436	106	8981	0.825
107) o-Xylene	(3)	11.764	106	4336	0.407
109) Styrene	(3)	11.784	104	6953	0.390
110) Bromoform	(3)	11.941	173	1691	0.403
111) Isopropylbenzene	(3)	12.060	105	11704	0.411
112) Cyclohexanone	(1)	12.137	55	7999M	23.207
114)$4-Bromofluorobenzene	(3)	12.208	95	460803	49.022
116) 1,1,2,2-Tetrachloroethane	(4)	12.304	83	3976	0.461
115) Bromobenzene	(4)	12.327	156	3183	0.455
118) trans-1,4-Dichloro-2-butene	(4)	12.330	53	6922	3.384
117) 1,2,3-Trichloropropane	(4)	12.353	110	1234	0.494
119) n-Propylbenzene	(4)	12.391	91	14157	0.420
120) 2-Chlorotoluene	(4)	12.468	126	2712	0.409
122) 1,3,5-Trimethylbenzene	(4)	12.526	105	9444	0.392
121) 4-Chlorotoluene	(4)	12.558	126	3074	0.445
124) tert-Butylbenzene	(4)	12.767	134	2040	0.411
125) Pentachloroethane	(4)	12.803	167	1328	0.332
126) 1,2,4-Trimethylbenzene	(4)	12.809	105	10334	0.422
127) sec-Butylbenzene	(4)	12.925	105	12302	0.397
129) 1,3-Dichlorobenzene	(4)	13.034	146	6446	0.478
130) p-Isopropyltoluene	(4)	13.038	119	10909	0.409
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	476890	50.000
134) 1,2,3-Trimethylbenzene	(4)	13.108	105	11645	0.461
133) 1,4-Dichlorobenzene	(4)	13.108	146	7048	0.506
135) Benzyl Chloride	(4)	13.179	91	4879	0.302
136) 1,3-Diethylbenzene	(4)	13.237	119	6879	0.411
137) 1,4-Diethylbenzene	(4)	13.311	119	7034	0.414
139) n-Butylbenzene	(4)	13.327	92	6115	0.440
138) 1,2-Dichlorobenzene	(4)	13.362	146	6714	0.493
140) 1,2-Diethylbenzene	(4)	13.378	119	5649	0.420
145) Hexachloroethane	(4)	13.571	201	1009M	0.295
142) 1,2-Dibromo-3-chloropropane	(4)	13.909	75	661	0.380
144) 1,3,5-Trichlorobenzene	(4)	14.031	180	5412	1.367
146) 1,2,4-Trichlorobenzene	(4)	14.455	180	5955	1.435

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on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
147) Hexachlorobutadiene	(4)	14.533	225	2418	2.174
148) Naphthalene	(4)	14.639	128	15748	0.506
149) 1,2,3-Trichlorobenzene	(4)	14.777	180	5942	1.373
150) 2-Methylnaphthalene	(4)	15.410	142	10359	2.989

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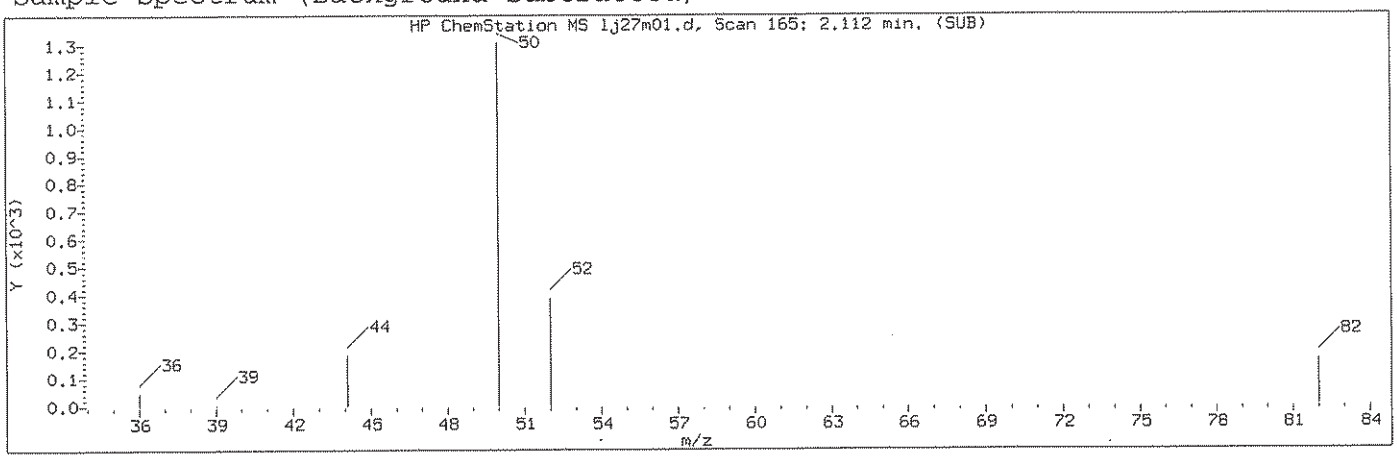
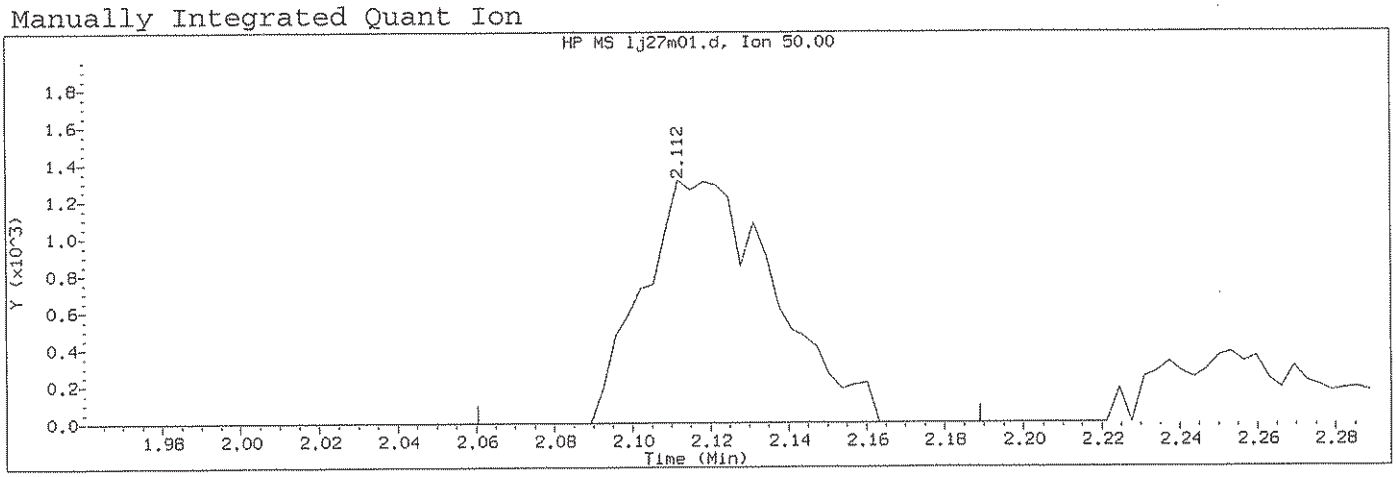
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

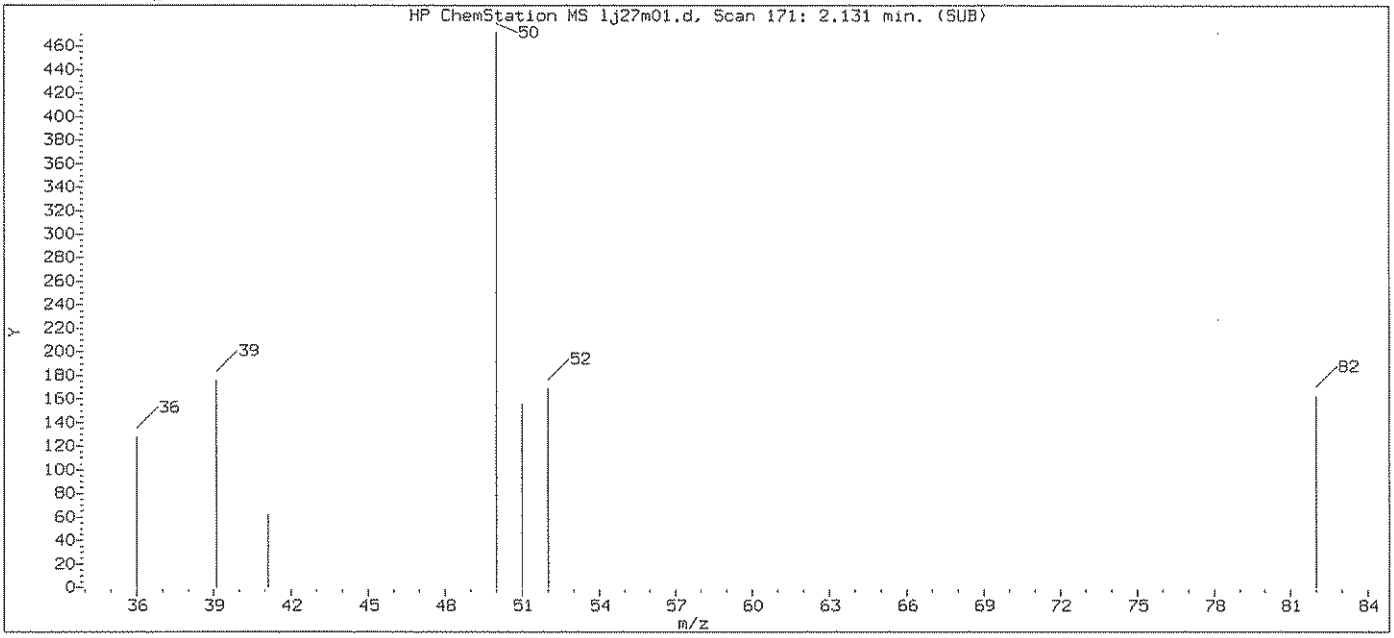
Compound Number	: 4		
Compound Name	: Chloromethane		
Scan Number	: 165		
Retention Time (minutes)	: 2.112		
Quant Ion	: 50.00		
Area (flag)	: 3055M		
On-Column Amount (ng)	: 0.4235		
Integration start scan	: 148	Integration stop scan:	188
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

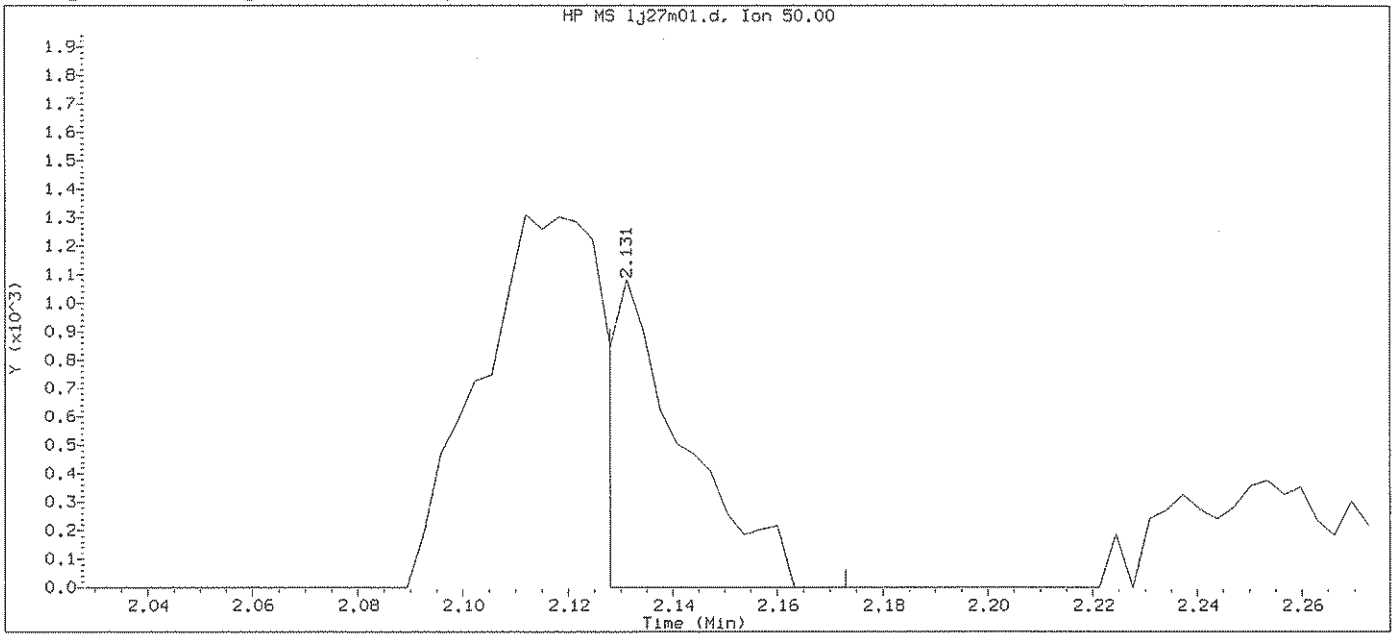
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 4		
Compound Name	: Chloromethane		
Scan Number	: 171		
Retention Time (minutes)	: 2.131		
Quant Ion	: 50.00		
Area	: 1018		
On-column Amount (ng)	: 0.1412		
Integration start scan	: 169	Integration stop scan:	183
Y at integration start	: 0	Y at integration end:	0

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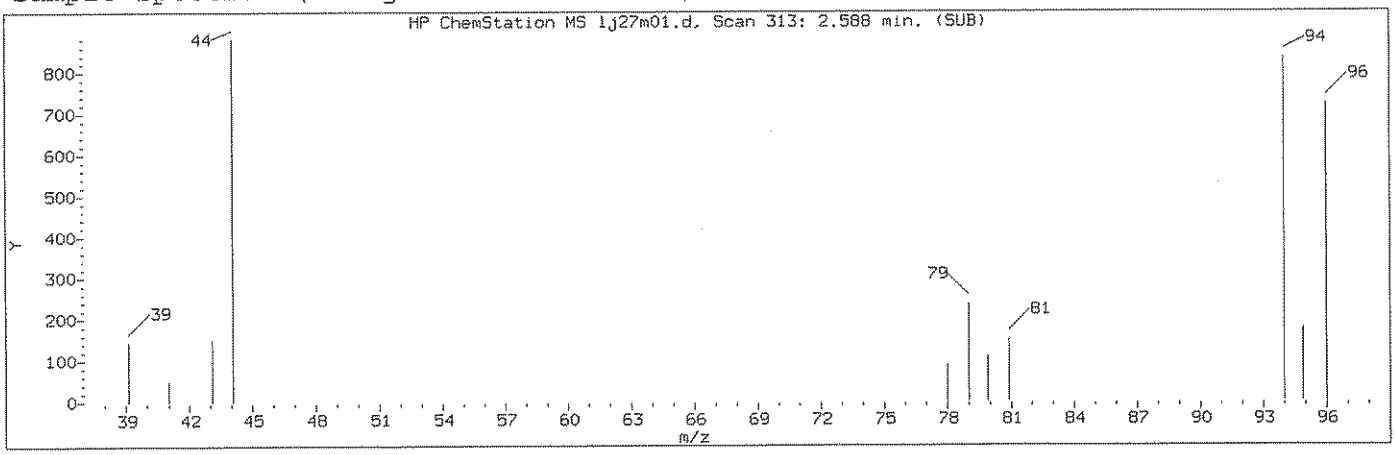
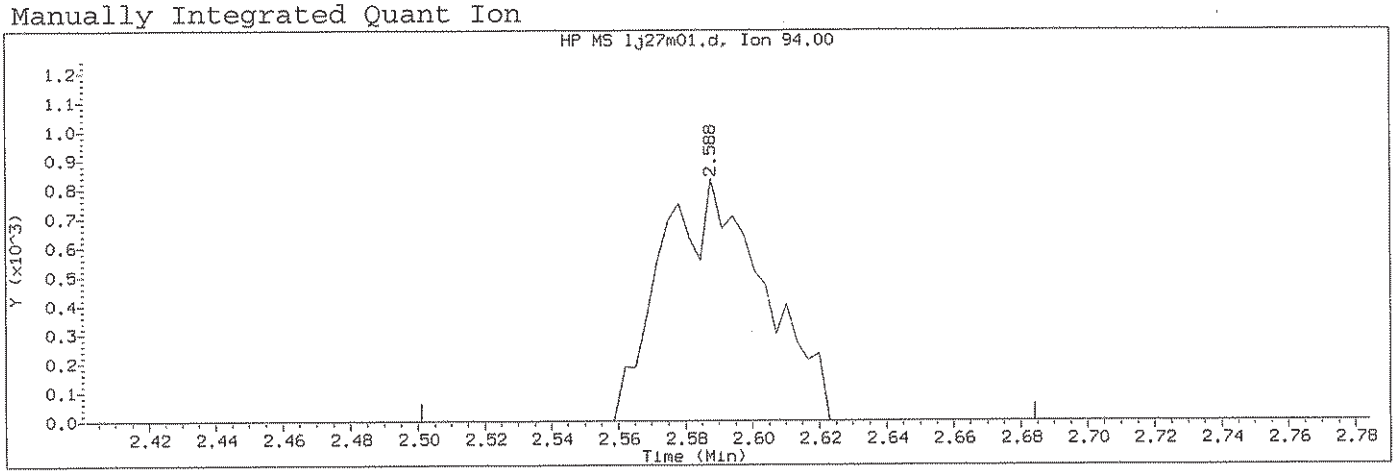
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

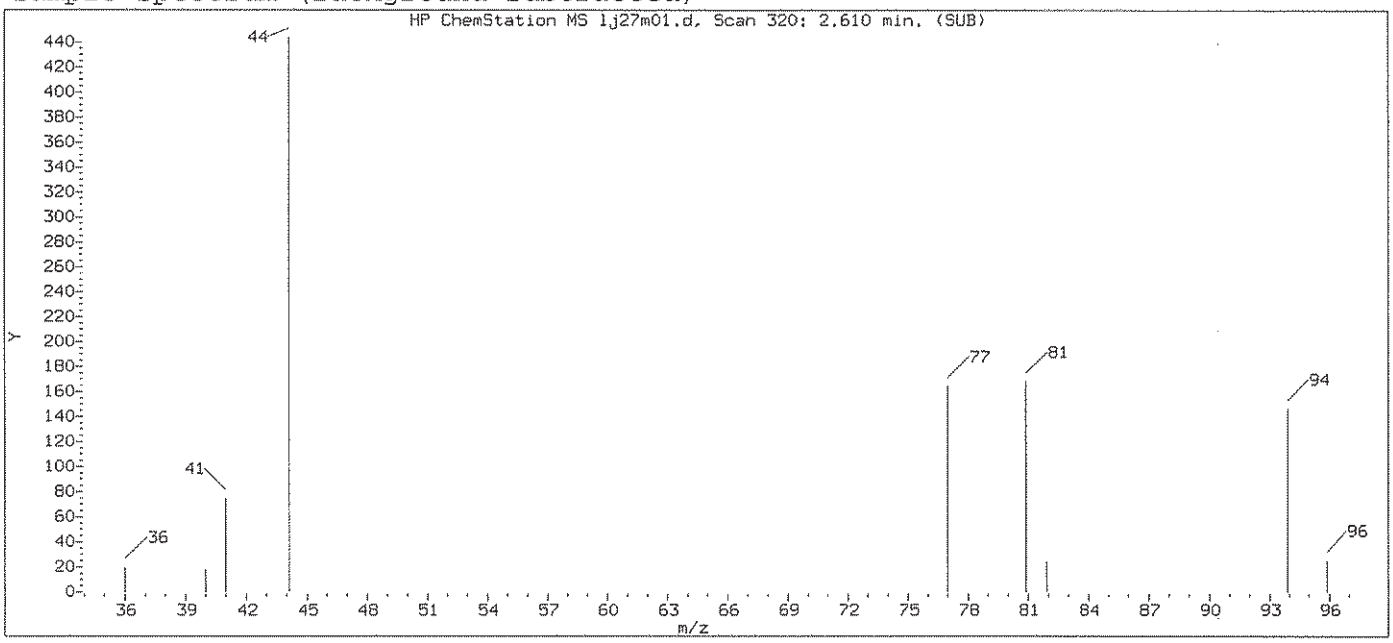
Compound Number	: 8		
Compound Name	: Bromomethane		
Scan Number	: 313		
Retention Time (minutes)	: 2.588		
Quant Ion	: 94.00		
Area (flag)	: 1767M		
On-Column Amount (ng)	: 0.4429		
Integration start scan	: 285	Integration stop scan:	342
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

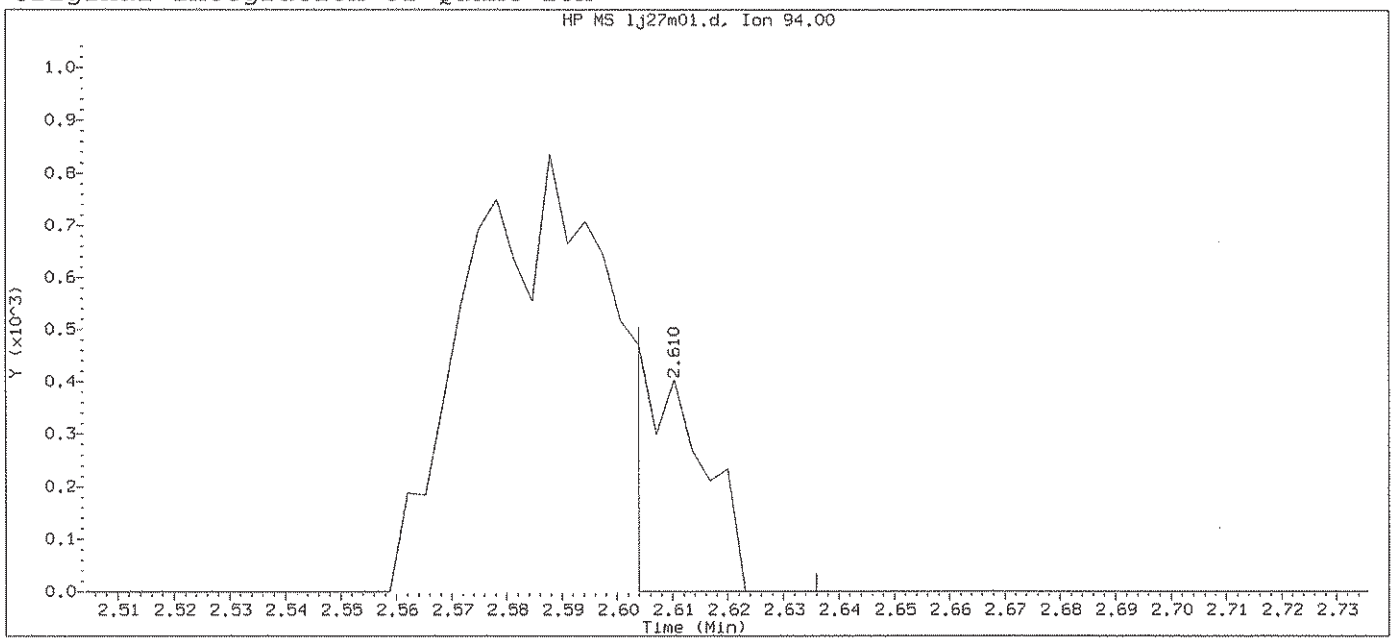
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 8		
Compound Name	: Bromomethane		
Scan Number	: 320		
Retention Time (minutes)	: 2.610		
Quant Ion	: 94.00		
Area	: 318		
On-column Amount (ng)	: 0.0798		
Integration start scan	: 317	Integration stop scan:	327
Y at integration start	: 0	Y at integration end:	0

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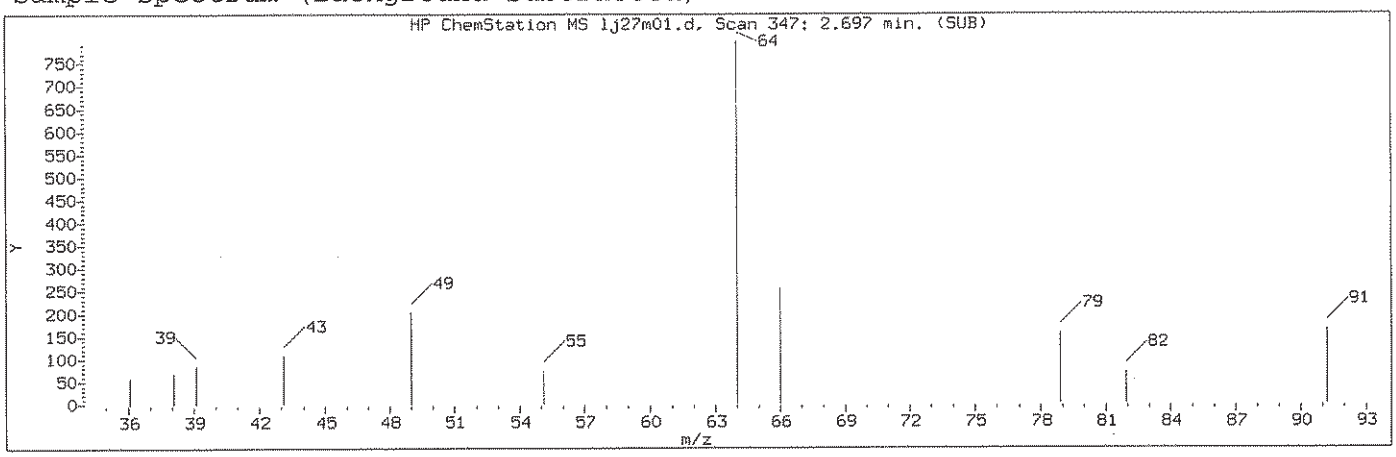
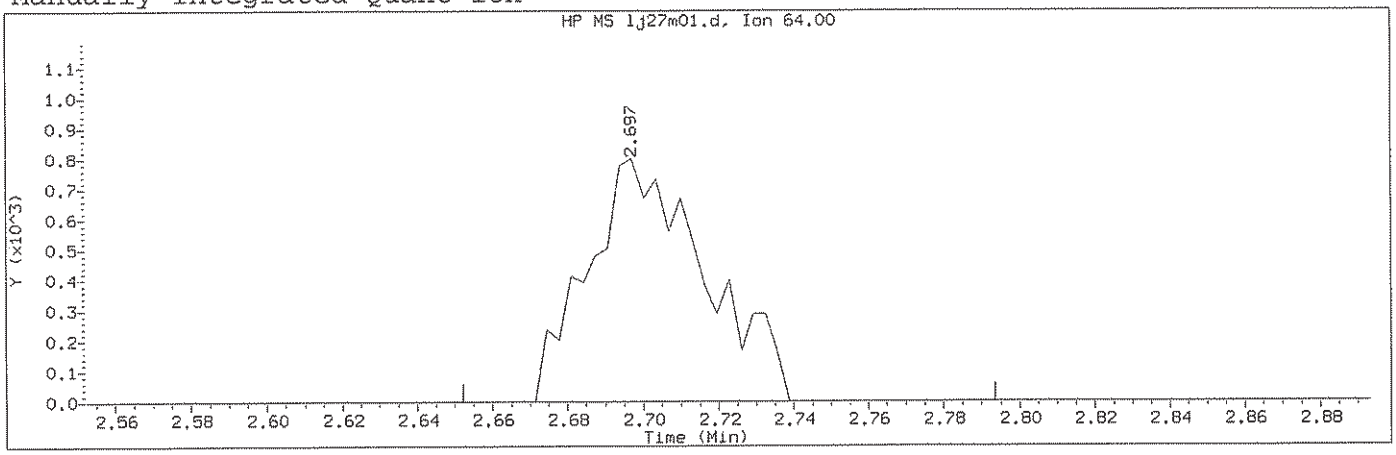
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

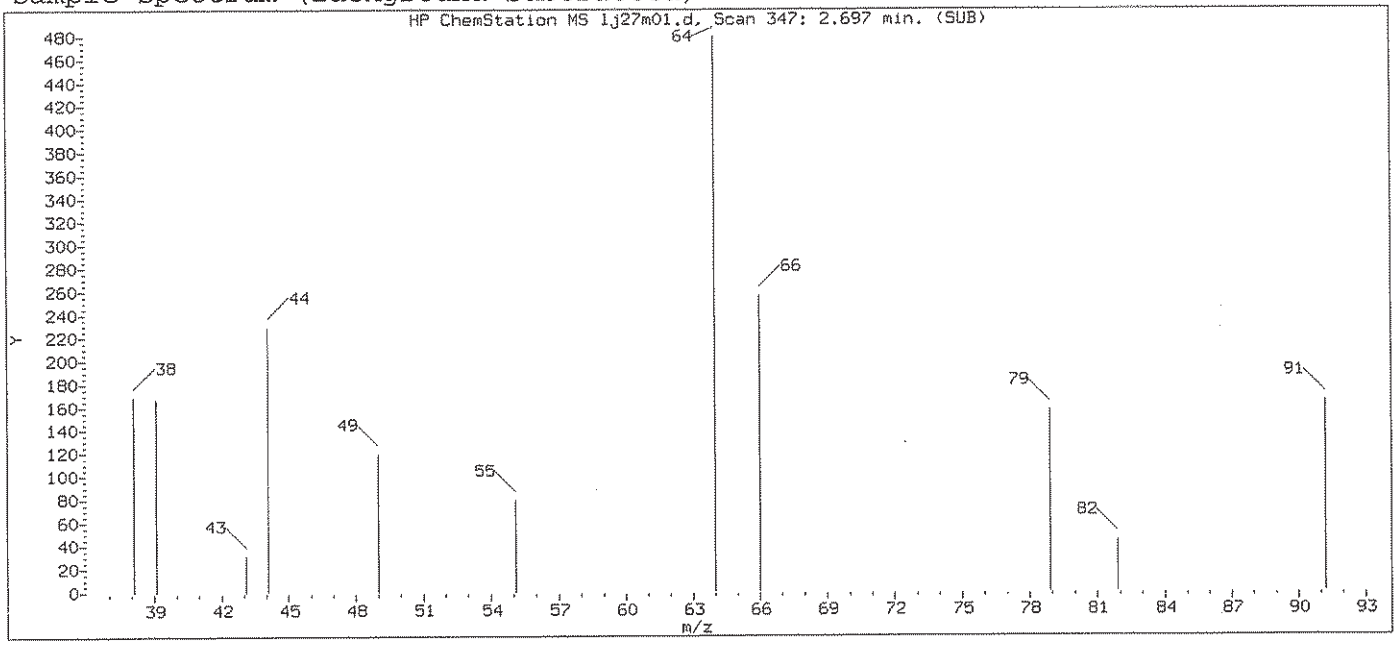
Compound Number	: 9		
Compound Name	: Chloroethane		
Scan Number	: 347		
Retention Time (minutes)	: 2.697		
Quant Ion	: 64.00		
Area (flag)	: 1722M		
On-Column Amount (ng)	: 0.4765		
Integration start scan	: 332	Integration stop scan:	376
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

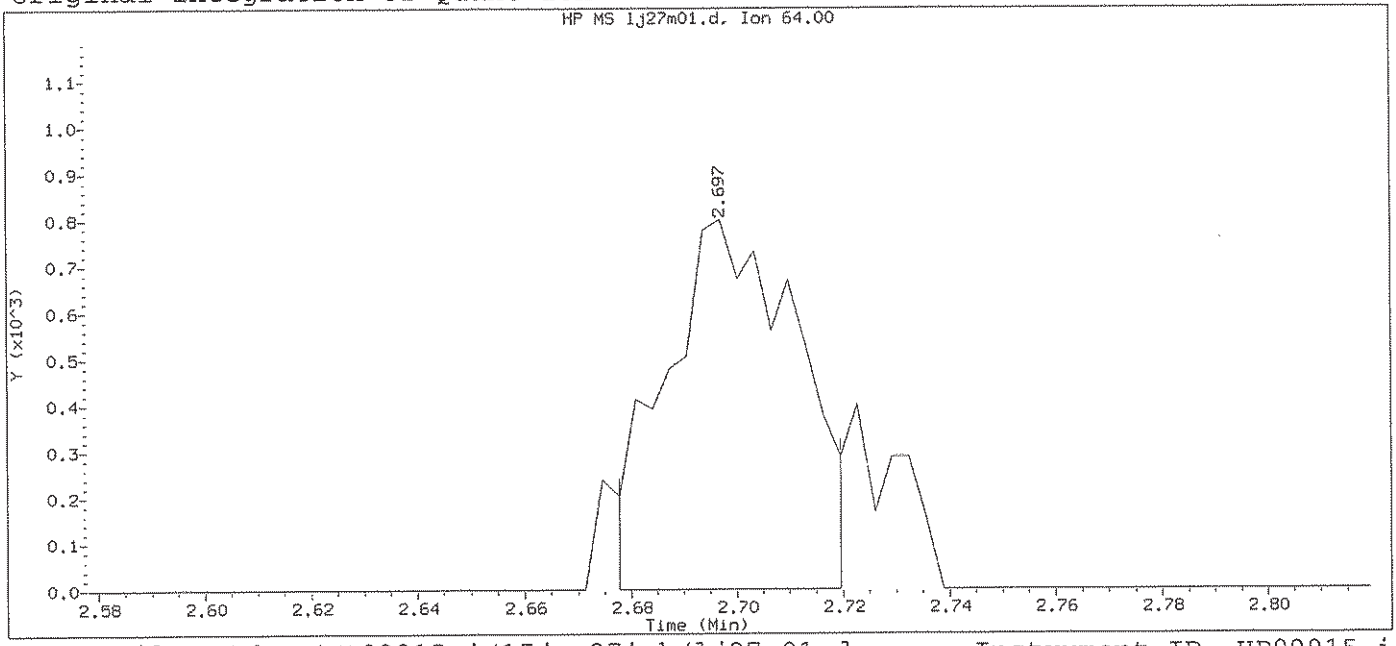
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 9		
Compound Name	: Chloroethane		
Scan Number	: 347		
Retention Time (minutes)	: 2.697		
Quant Ion	: 64.00		
Area	: 1378		
On-column Amount (ng)	: 0.3815		
Integration start scan	: 340	Integration stop scan:	353
Y at integration start	: 0	Y at integration end:	0

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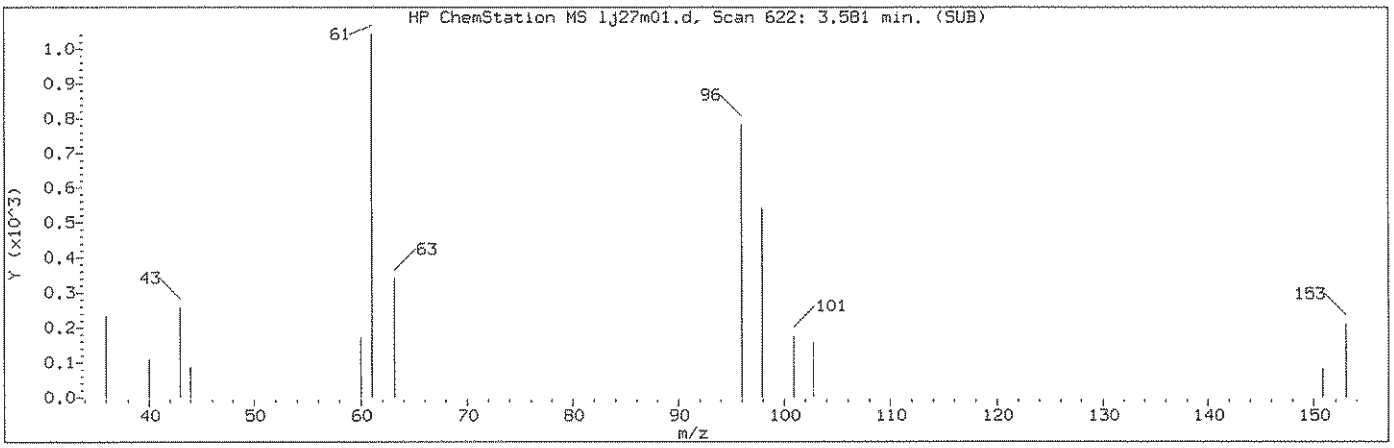
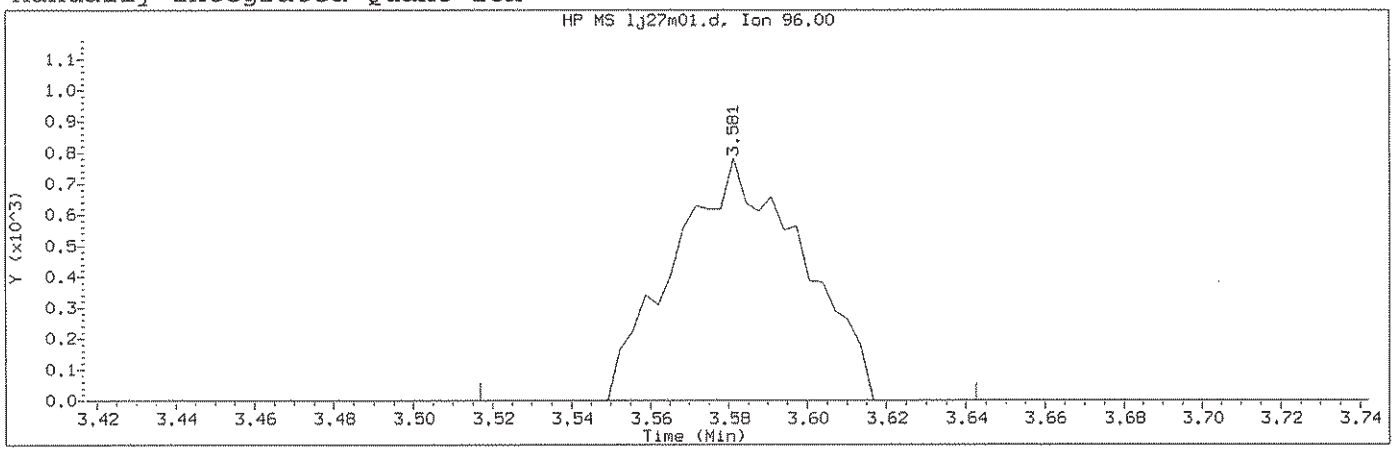
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

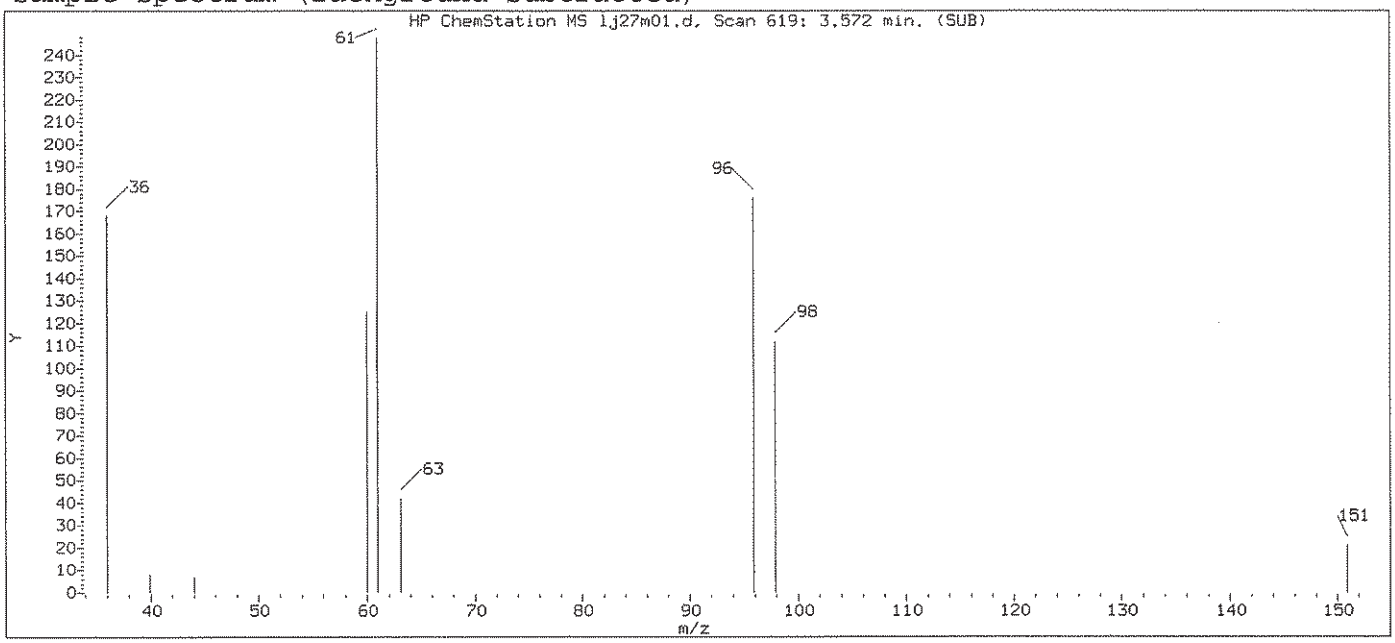
Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 622
Retention Time (minutes): 3.581
Quant Ion : 96.00
Area (flag) : 1769M
On-Column Amount (ng) : 0.3646
Integration start scan : 601 Integration stop scan: 640
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

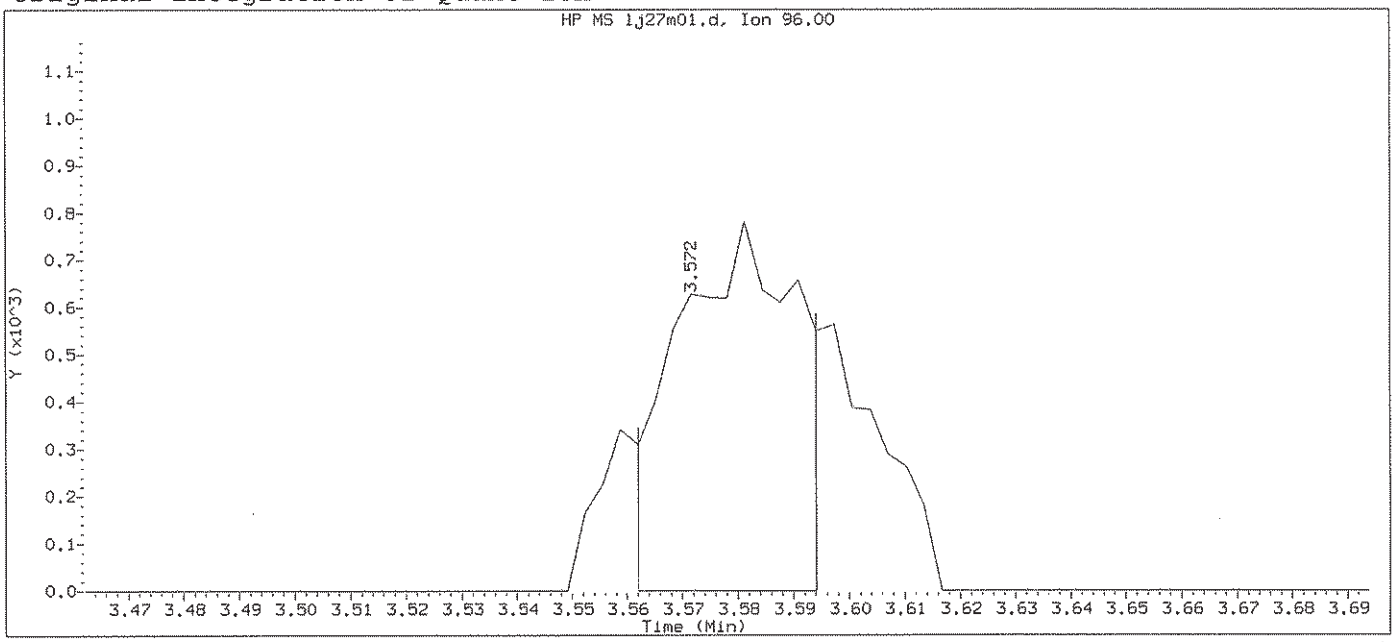
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

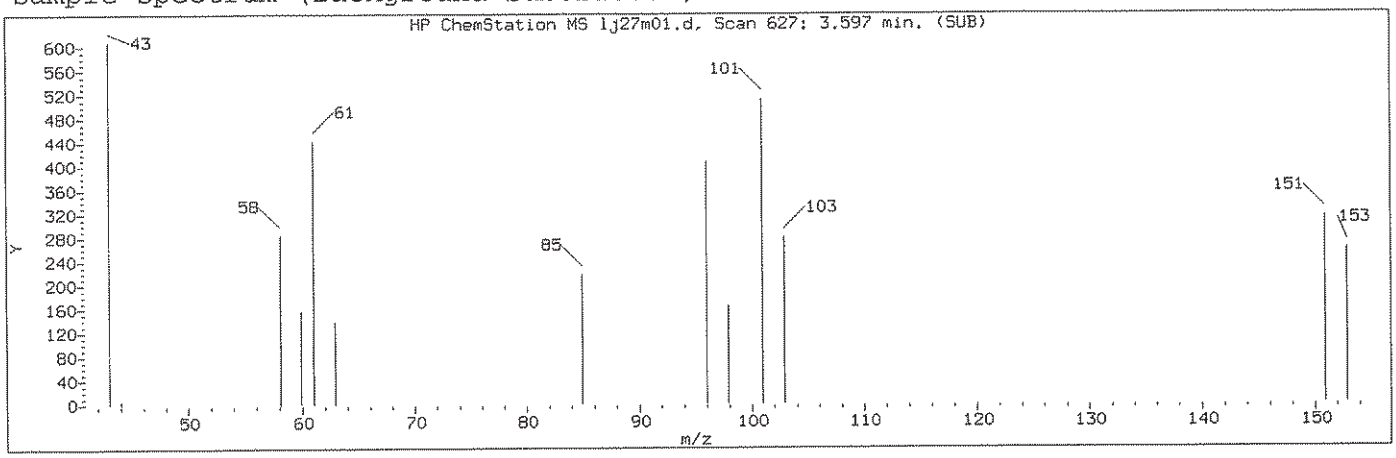
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

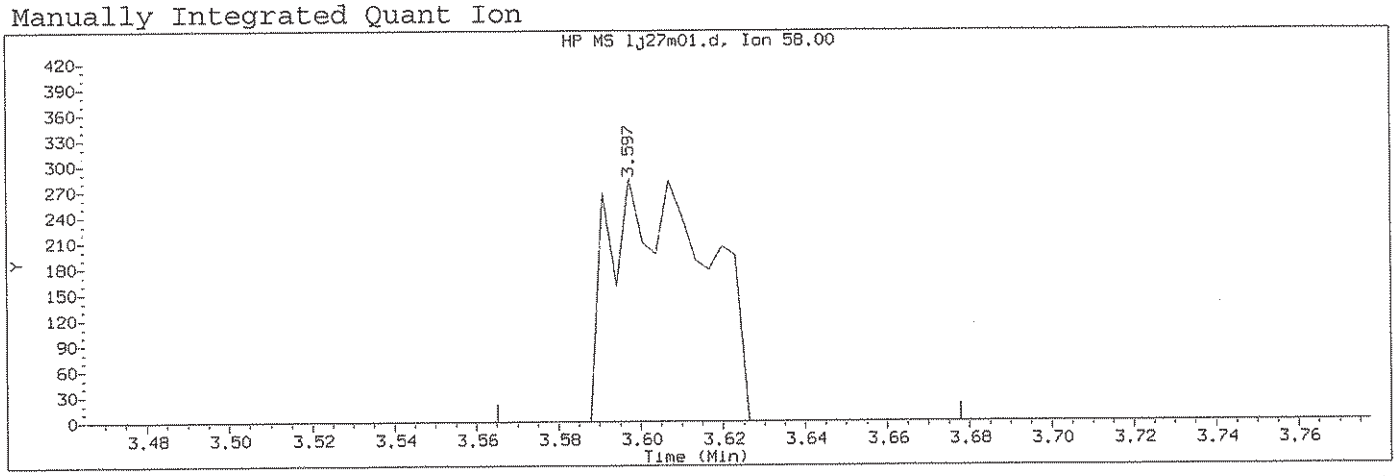
Compound Number	: 17		
Compound Name	: 1,1-Dichloroethene		
Scan Number	: 619		
Retention Time (minutes)	: 3.572		
Quant Ion	: 96.00		
Area	: 1146		
On-column Amount (ng)	: 0.2363		
Integration start scan	: 615	Integration stop scan:	625
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

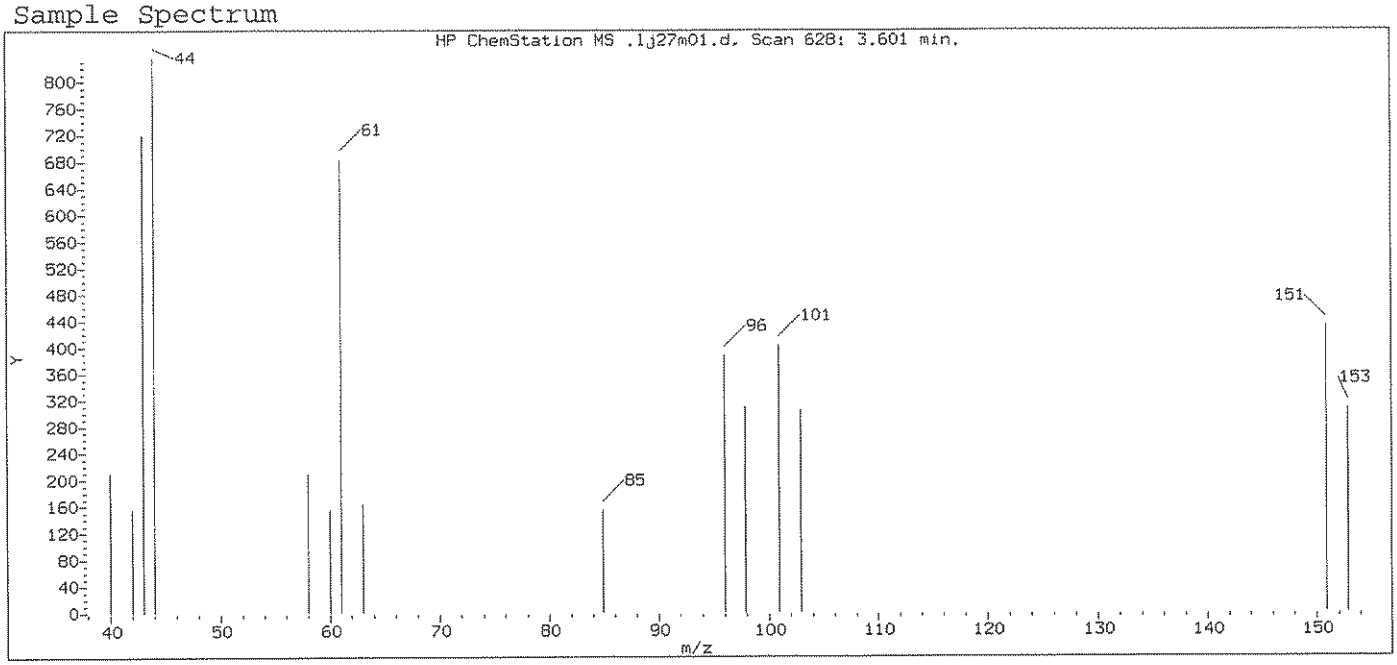
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 627		
Retention Time (minutes)	: 3.597		
Quant Ion	: 58.00		
Area (flag)	: 463M		
On-Column Amount (ng)	: 0.7029		
Integration start scan	: 616	Integration stop scan:	651
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

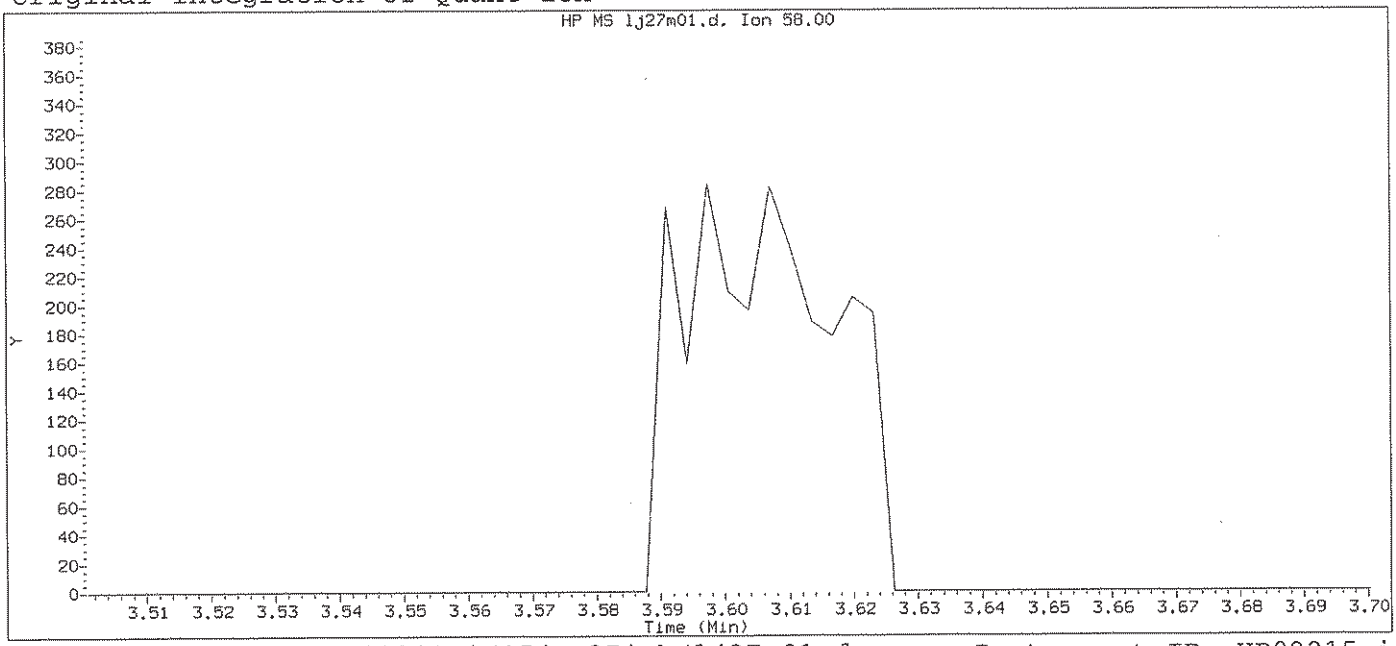
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

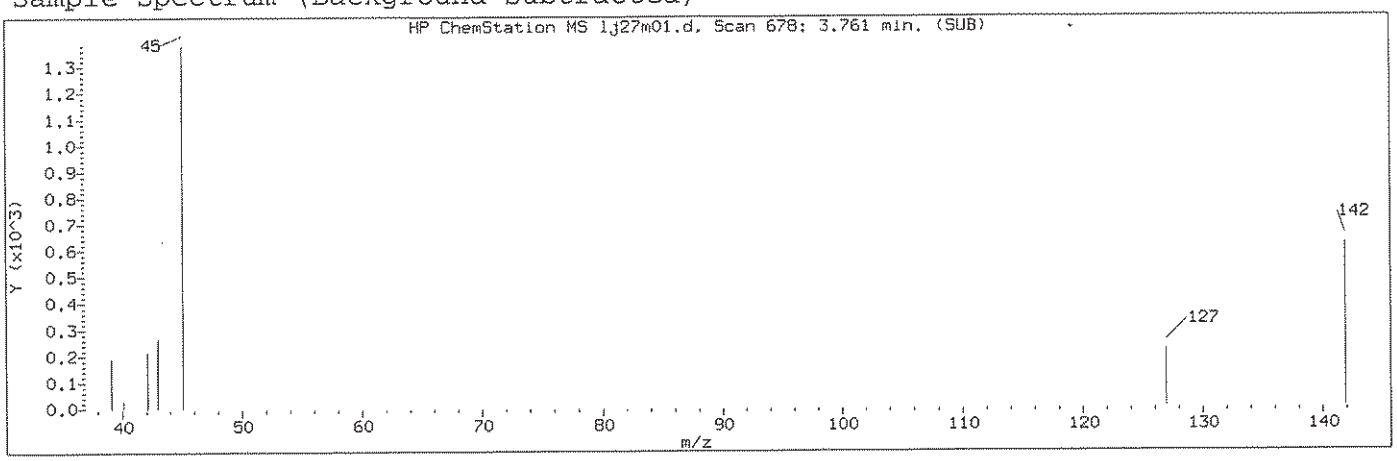
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

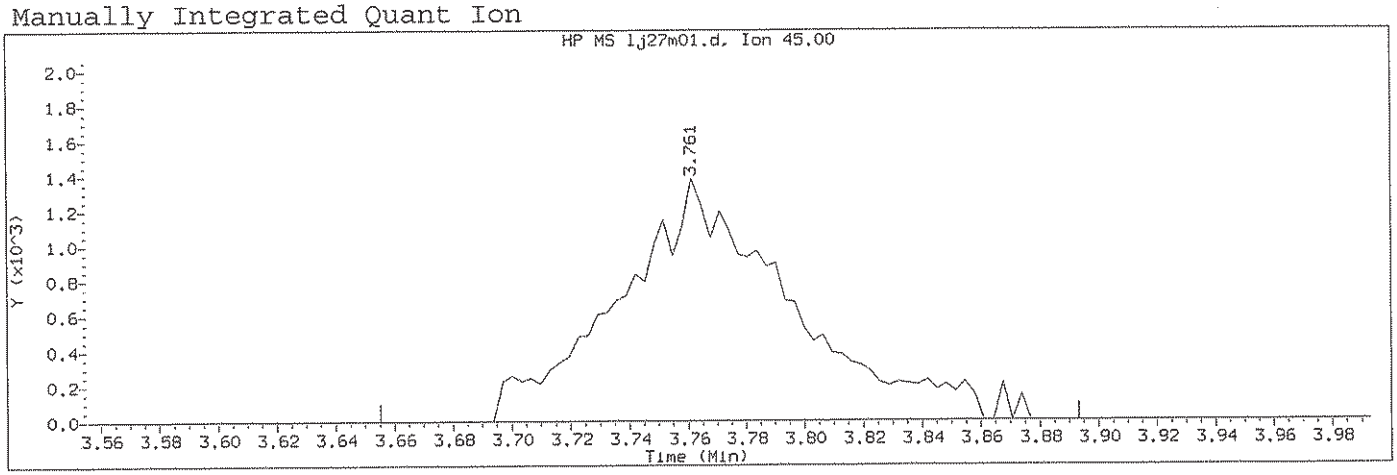
Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

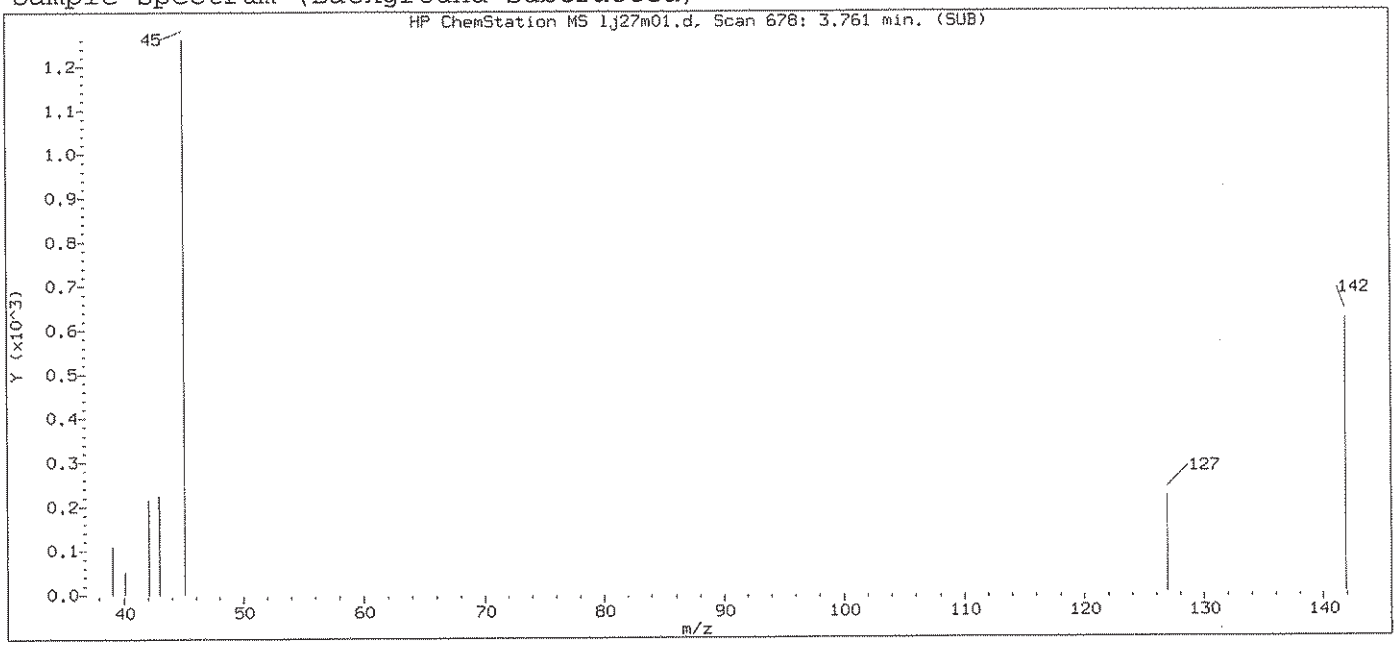
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 678		
Retention Time (minutes)	: 3.761		
Quant Ion	: 45.00		
Area (flag)	: 5658M		
On-Column Amount (ng)	: 10.0934		
Integration start scan	: 644	Integration stop scan:	718
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

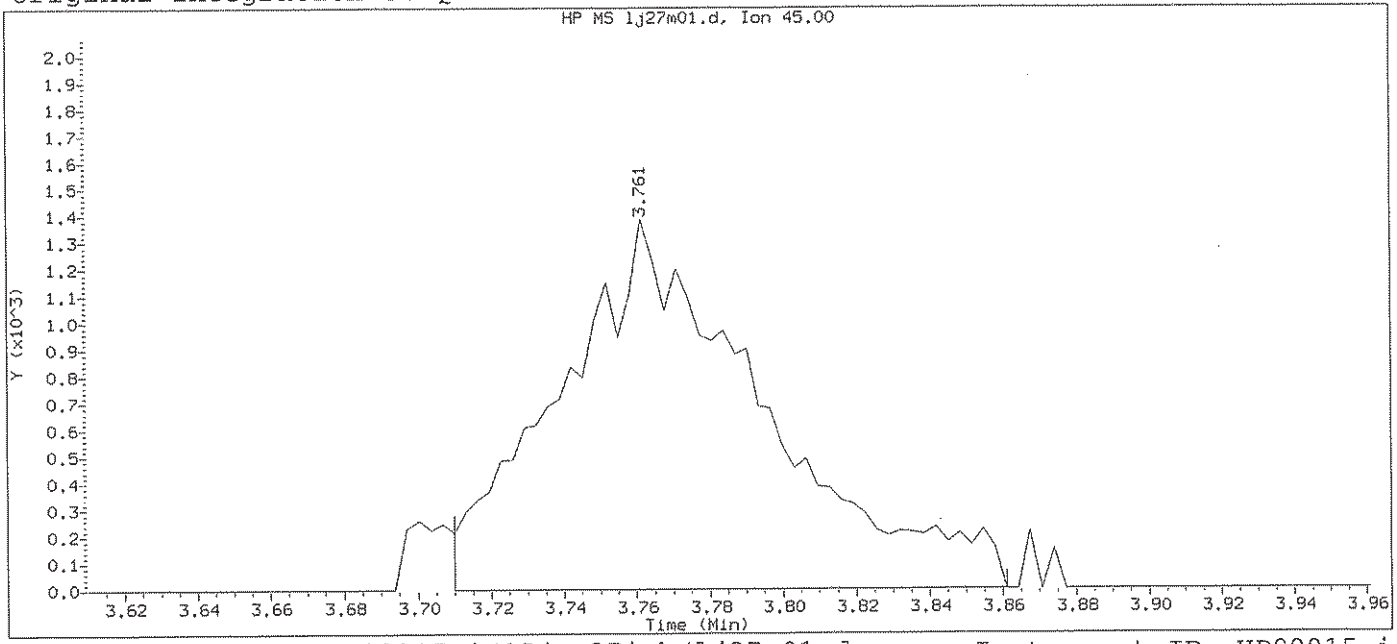
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

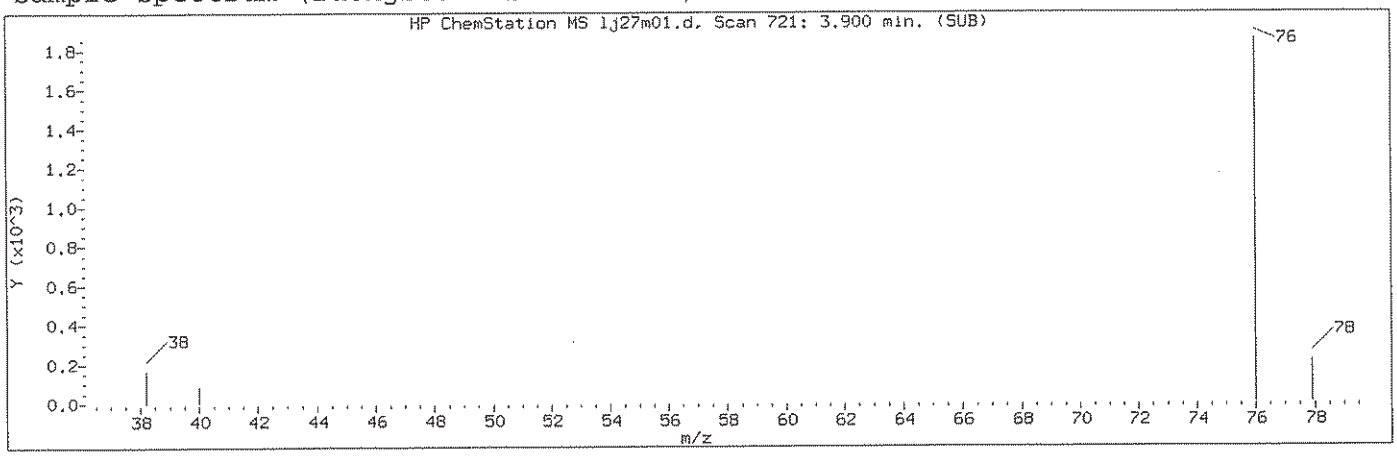
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

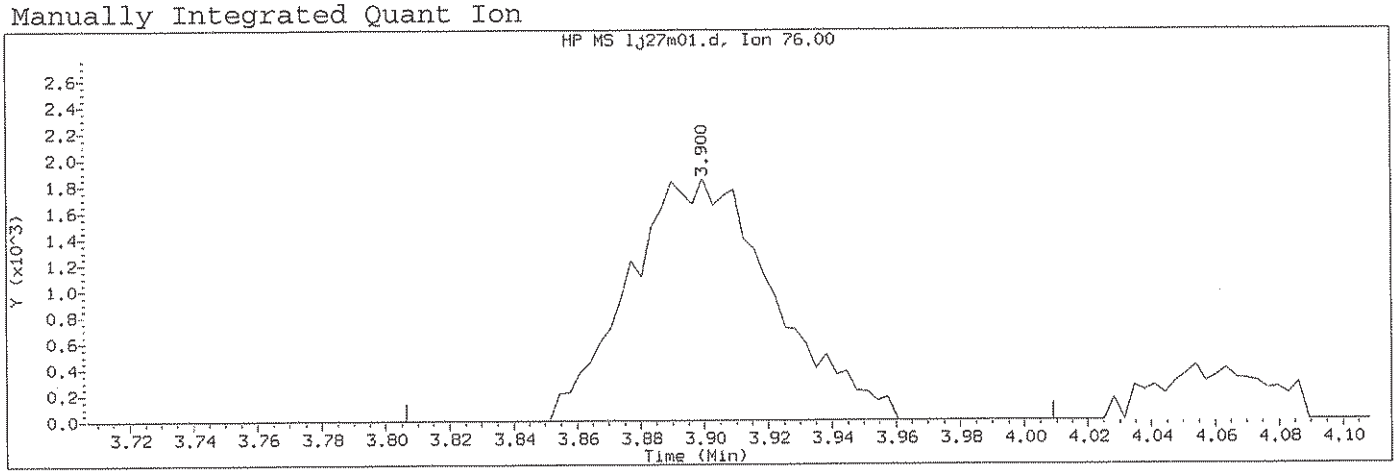
Compound Number	: 21		
Compound Name	: 2-Propanol		
Scan Number	: 678		
Retention Time (minutes)	: 3.761		
Quant Ion	: 45.00		
Area	: 5381		
On-column Amount (ng)	: 9.6010		
Integration start scan	: 661	Integration stop scan:	708
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature used: TIC: Page03774

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

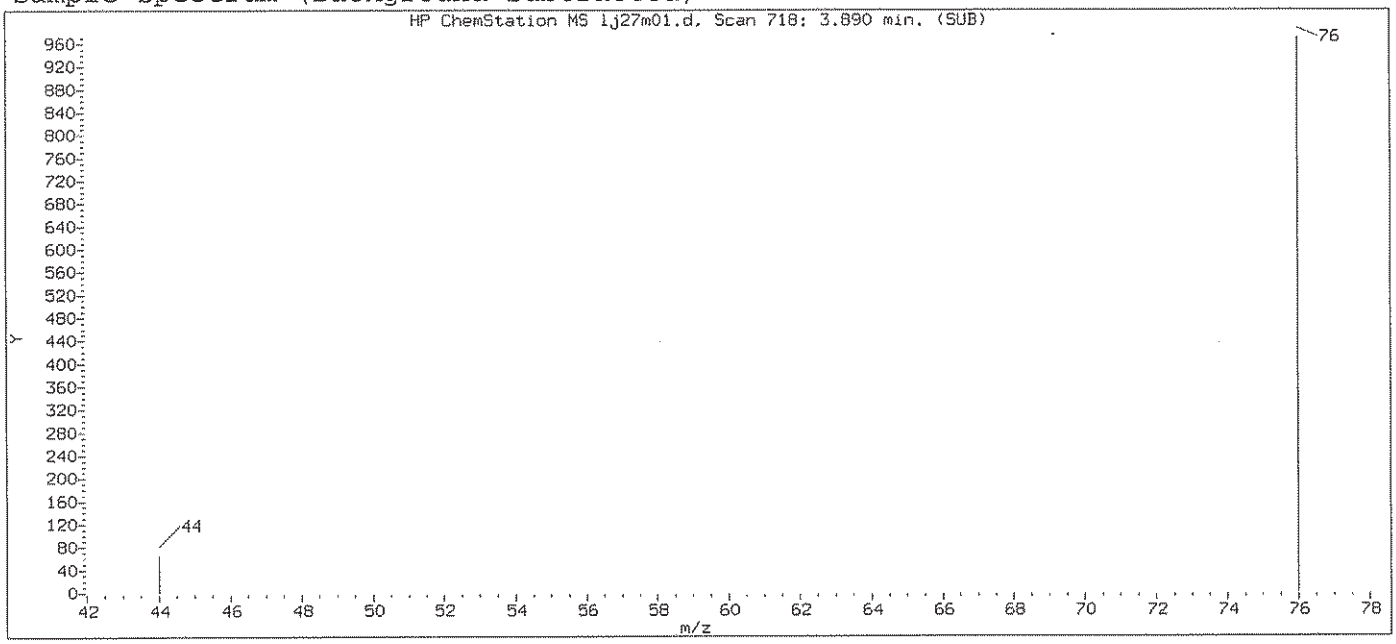
Compound Number	: 23		
Compound Name	: Carbon Disulfide		
Scan Number	: 721		
Retention Time (minutes)	: 3.900		
Quant Ion	: 76.00		
Area (flag)	: 5860M		
On-Column Amount (ng)	: 0.3622		
Integration start scan	: 691	Integration stop scan:	754
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

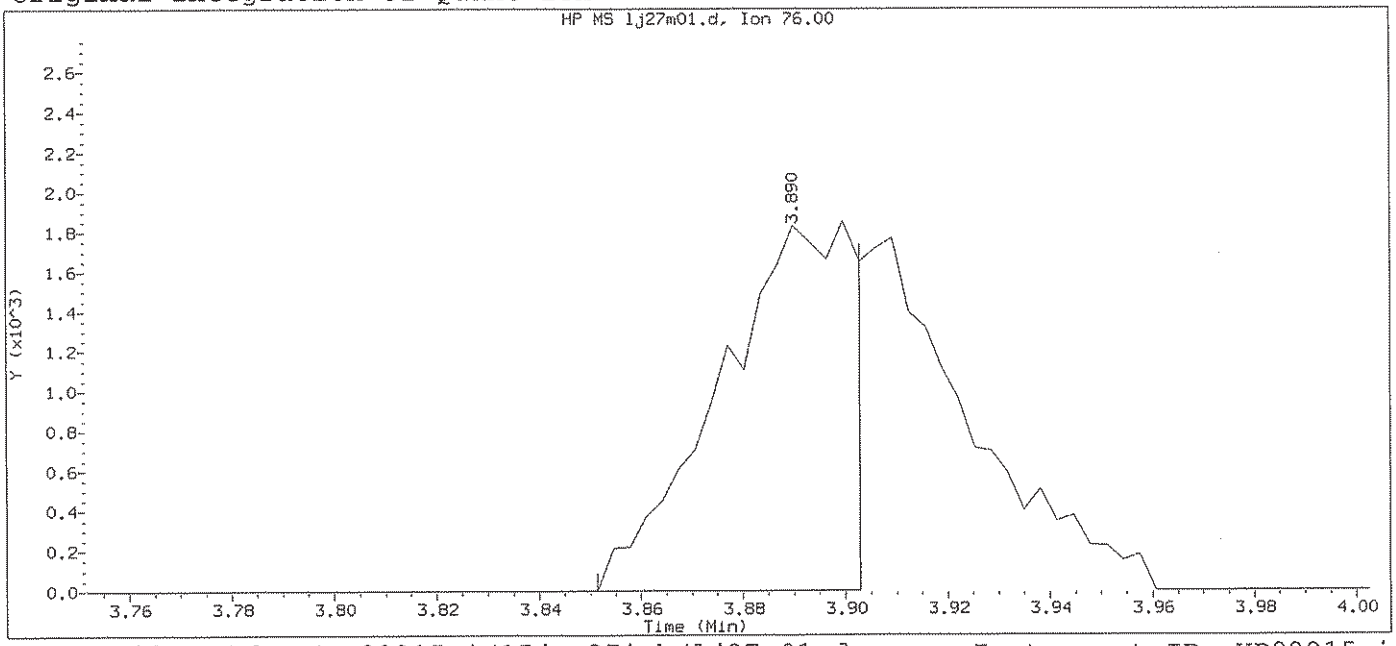
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 23		
Compound Name	: Carbon Disulfide		
Scan Number	: 718		
Retention Time (minutes)	: 3.890		
Quant Ion	: 76.00		
Area	: 3253		
On-column Amount (ng)	: 0.2011		
Integration start scan	: 705	Integration stop scan:	721
Y at integration start	: 0	Y at integration end:	0

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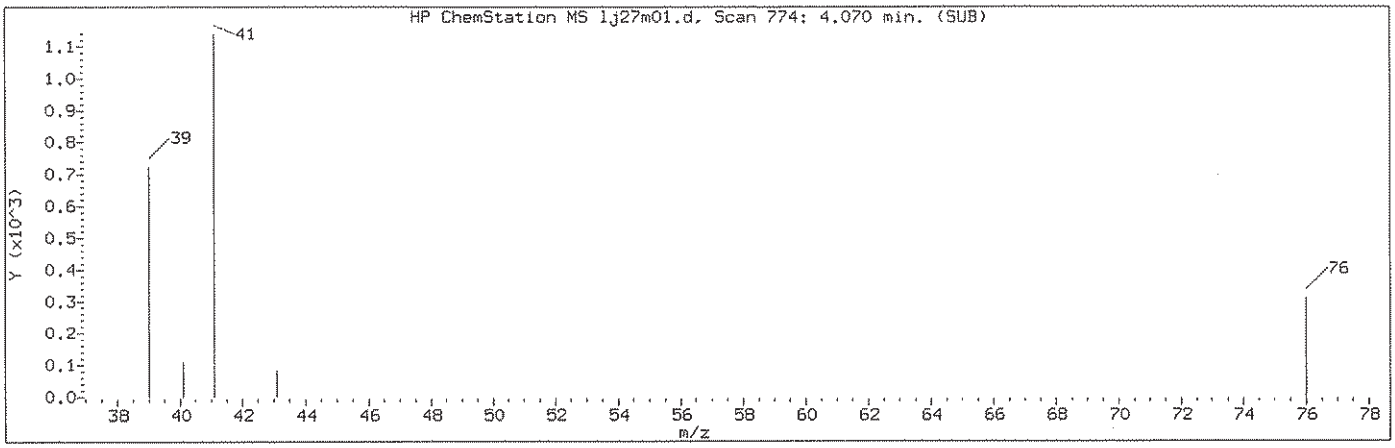
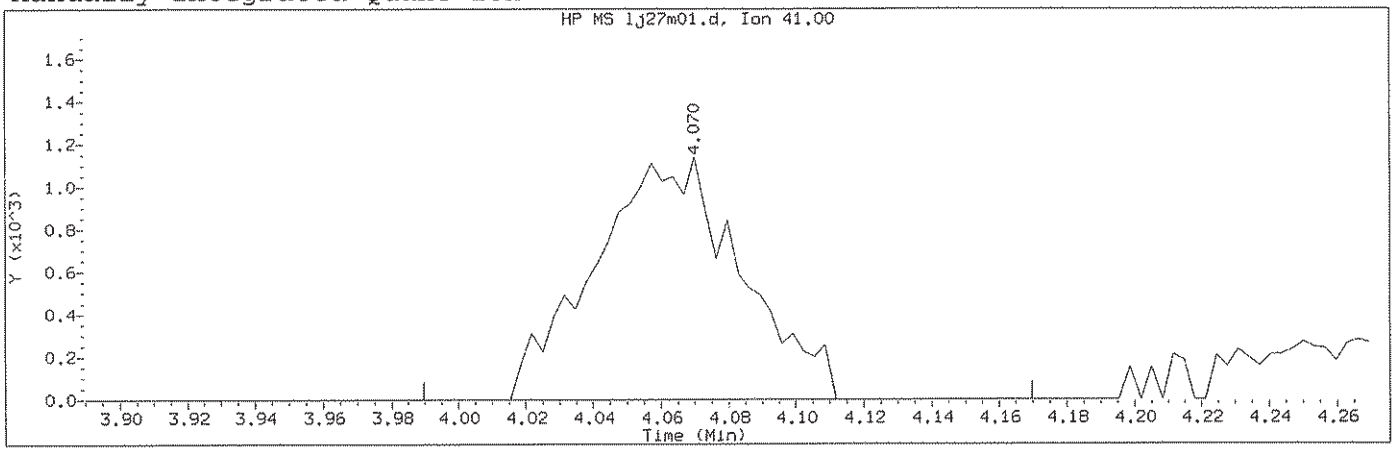
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

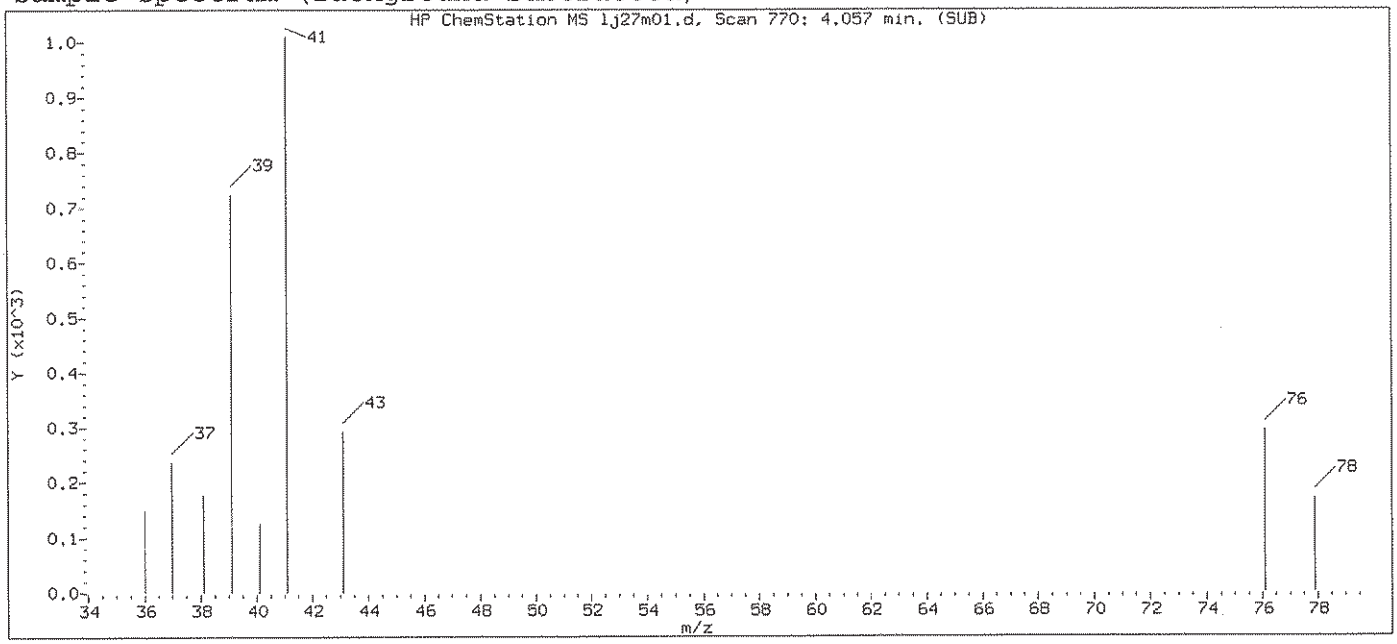
Compound Number	: 25		
Compound Name	: Allyl Chloride		
Scan Number	: 774		
Retention Time (minutes)	: 4.070		
Quant Ion	: 41.00		
Area (flag)	: 3408M		
On-Column Amount (ng)	: 0.4089		
Integration start scan	: 748	Integration stop scan:	804
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

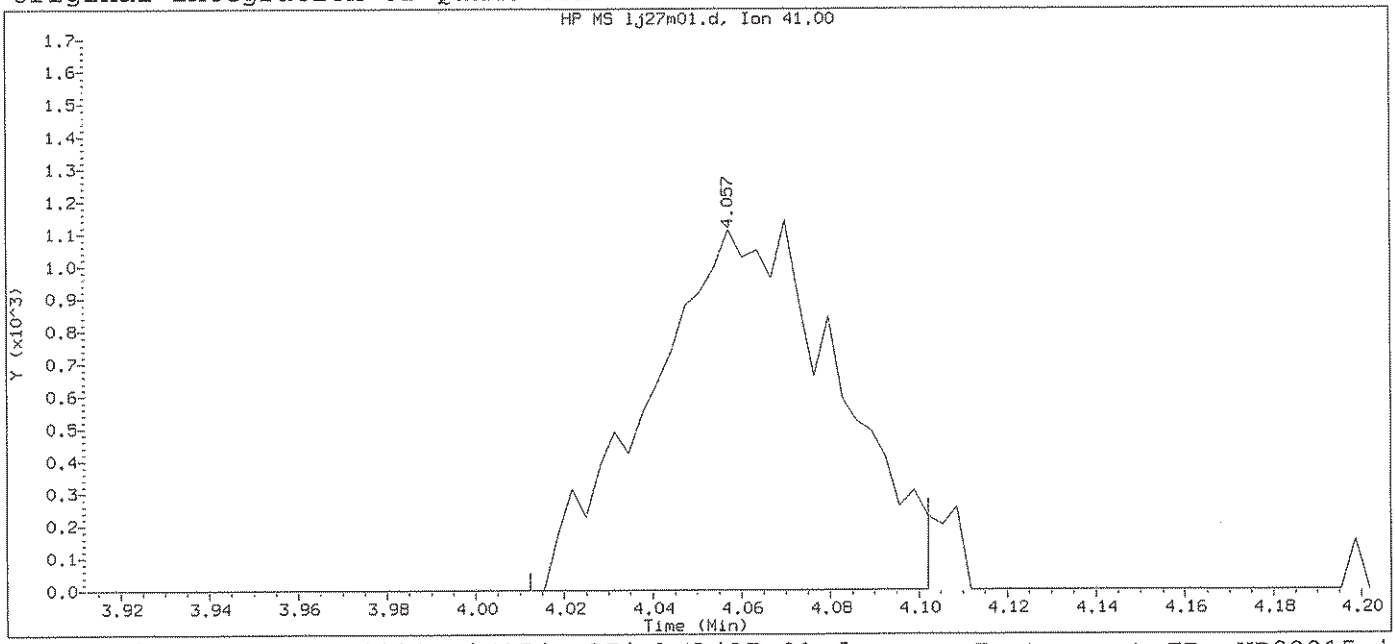
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

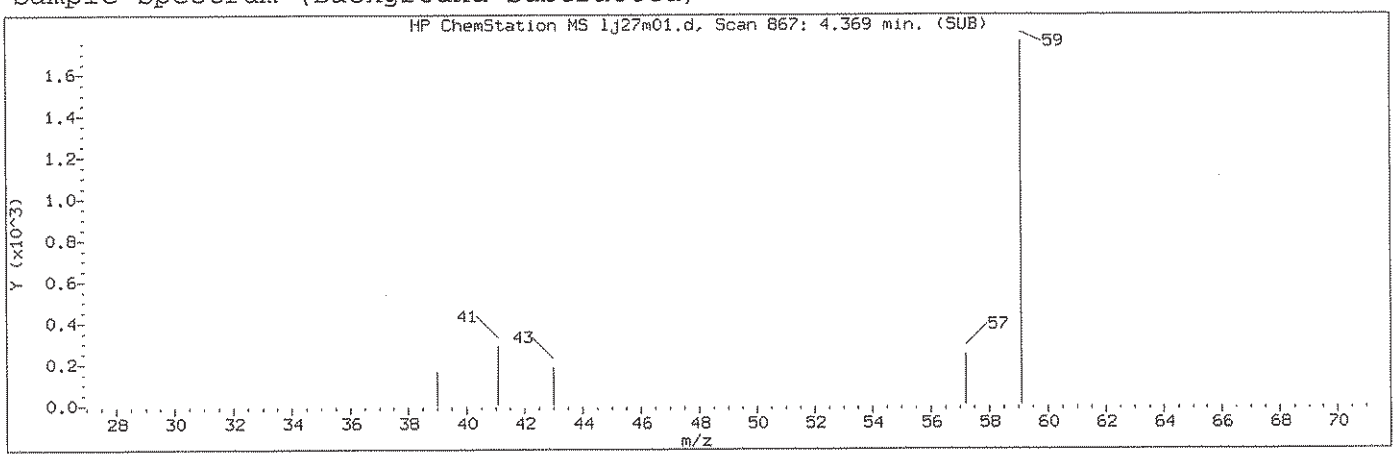
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

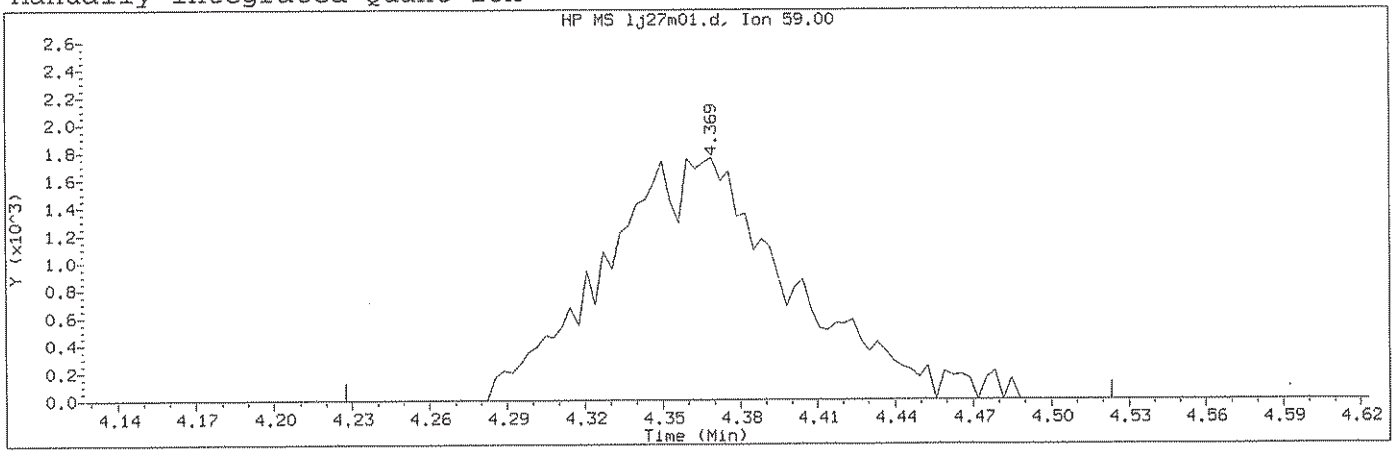
Compound Number	: 25		
Compound Name	: Allyl Chloride		
Scan Number	: 770		
Retention Time (minutes)	: 4.057		
Quant Ion	: 41.00		
Area	: 3298		
On-column Amount (ng)	: 0.3957		
Integration start scan	: 755	Integration stop scan:	783
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature used: ID: mag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

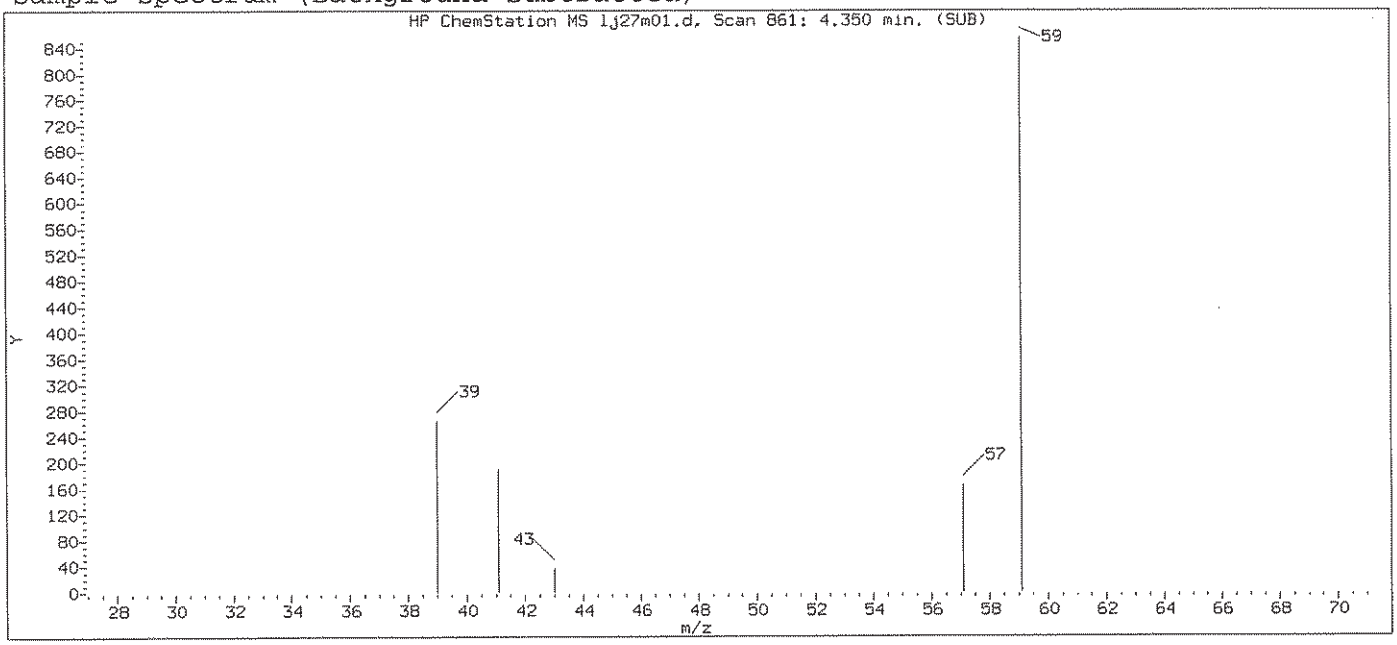
Compound Number	: 30		
Compound Name	: t-Butyl alcohol		
Scan Number	: 867		
Retention Time (minutes)	: 4.369		
Quant Ion	: 59.00		
Area (flag)	: 8906M		
On-Column Amount (ng)	: 9.6632		
Integration start scan	: 822	Integration stop scan:	914
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

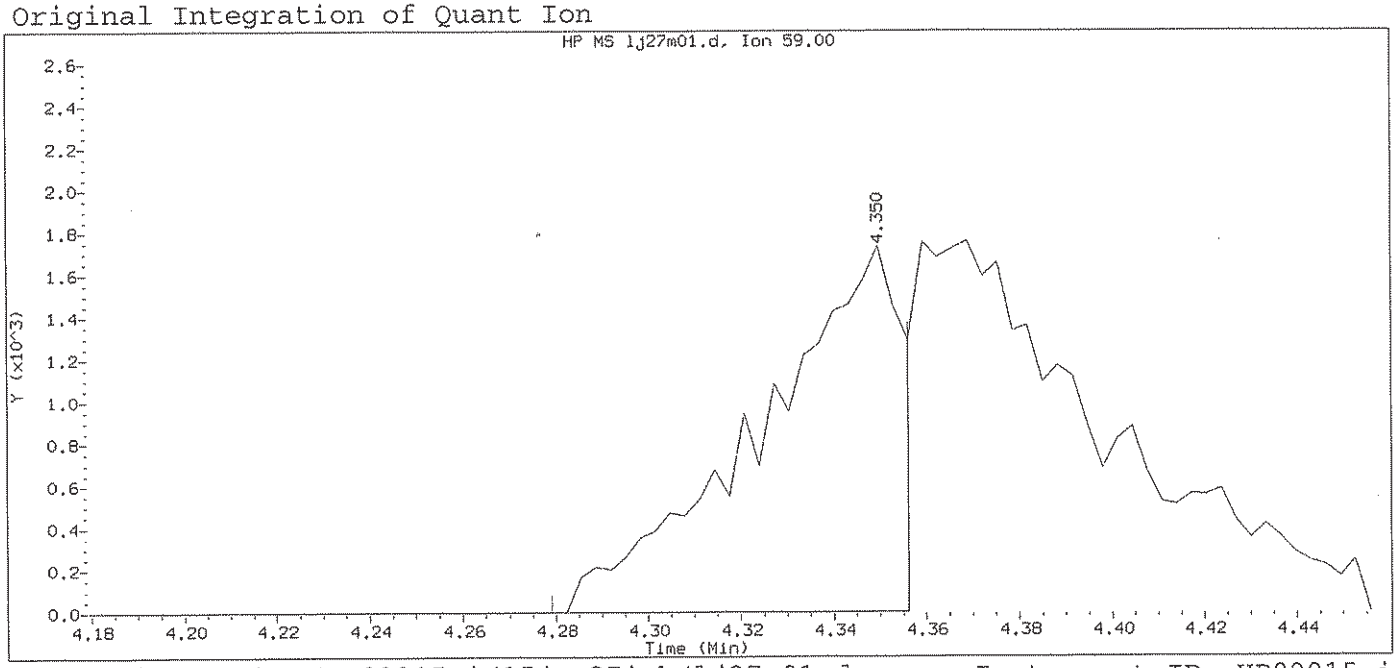
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

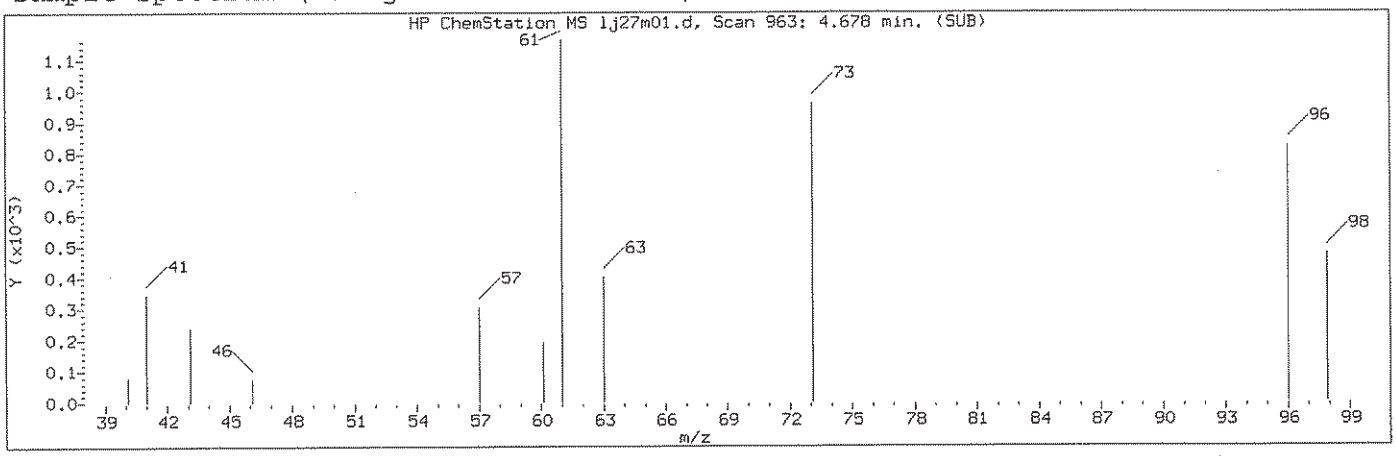
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

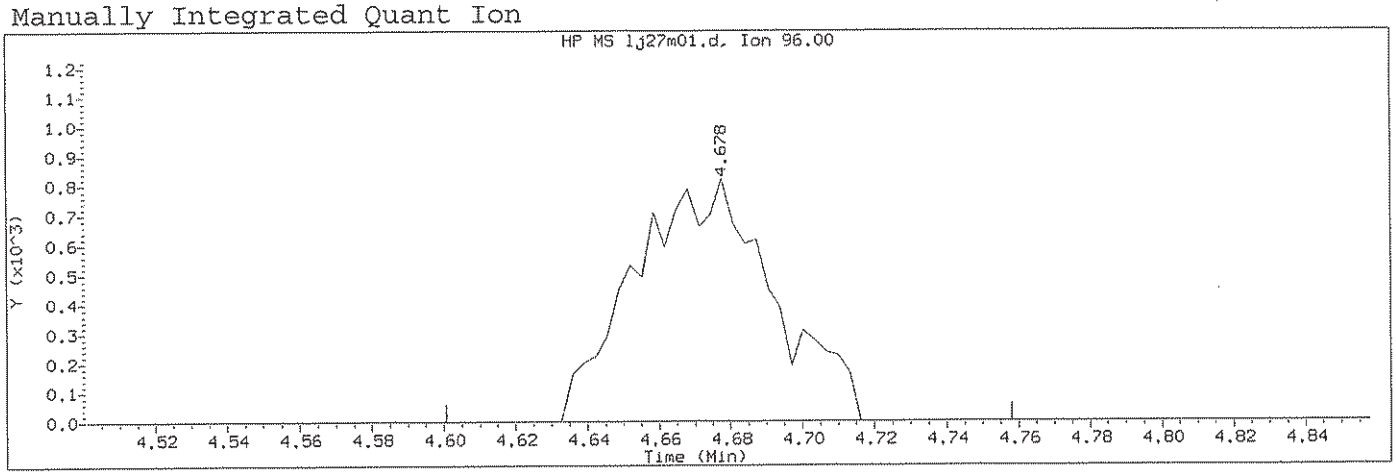
Compound Number	: 30		
Compound Name	: t-Butyl alcohol		
Scan Number	: 861		
Retention Time (minutes)	: 4.350		
Quant Ion	: 59.00		
Area	: 3608		
On-column Amount (ng)	: 3.9156		
Integration start scan	: 838	Integration stop scan:	862
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature us[illegible] Page 03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

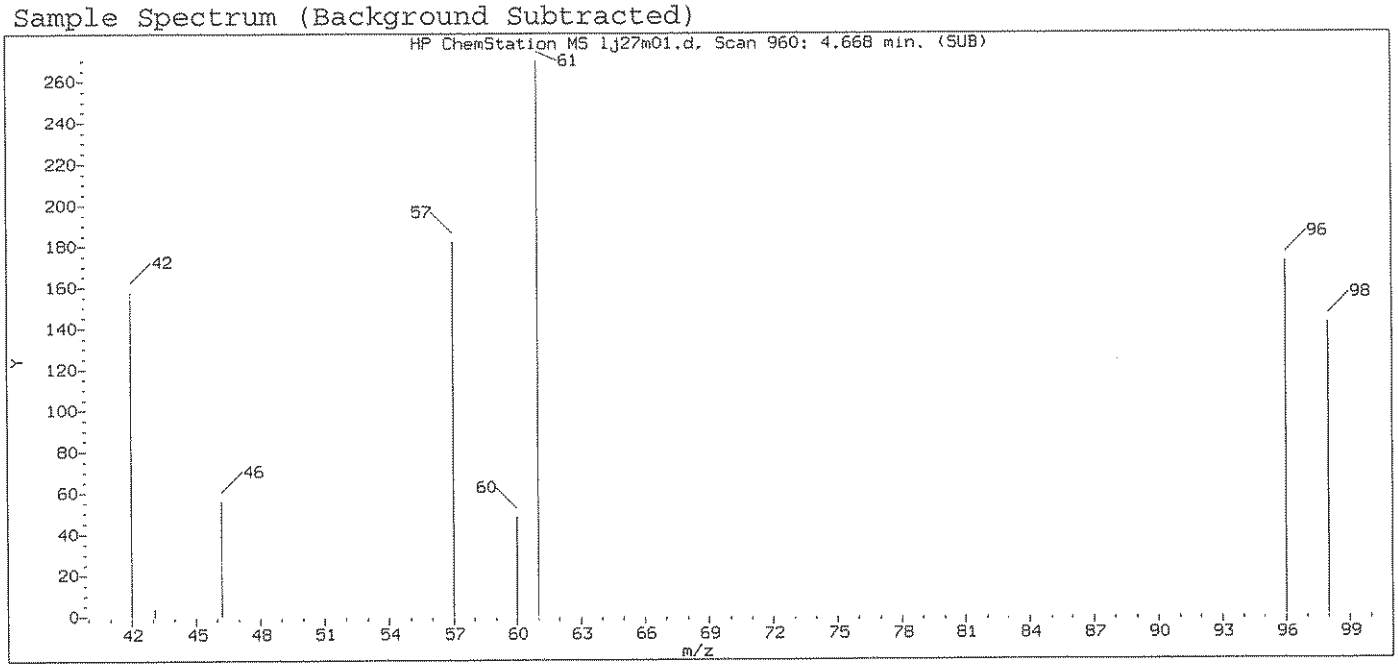
Compound Number	: 32		
Compound Name	: trans-1,2-Dichloroethene		
Scan Number	: 963		
Retention Time (minutes)	: 4.678		
Quant Ion	: 96.00		
Area (flag)	: 2212M		
On-Column Amount (ng)	: 0.4012		
Integration start scan	: 938	Integration stop scan:	987
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

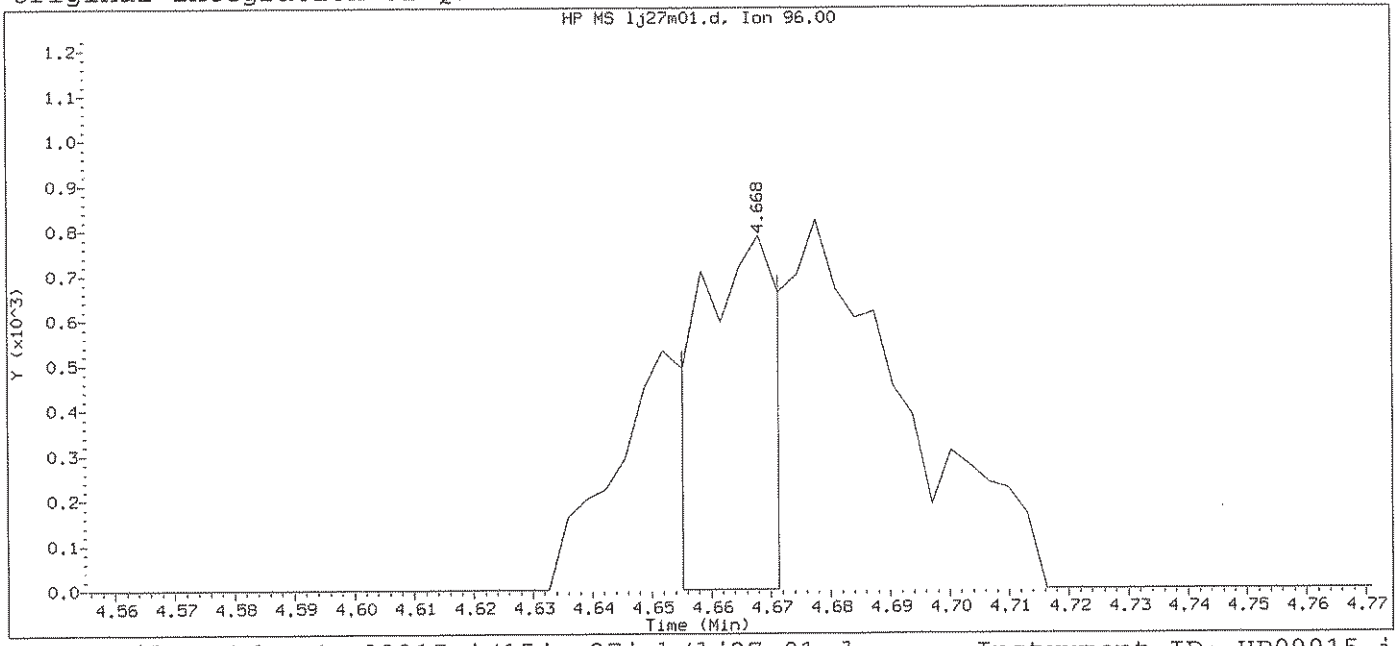
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

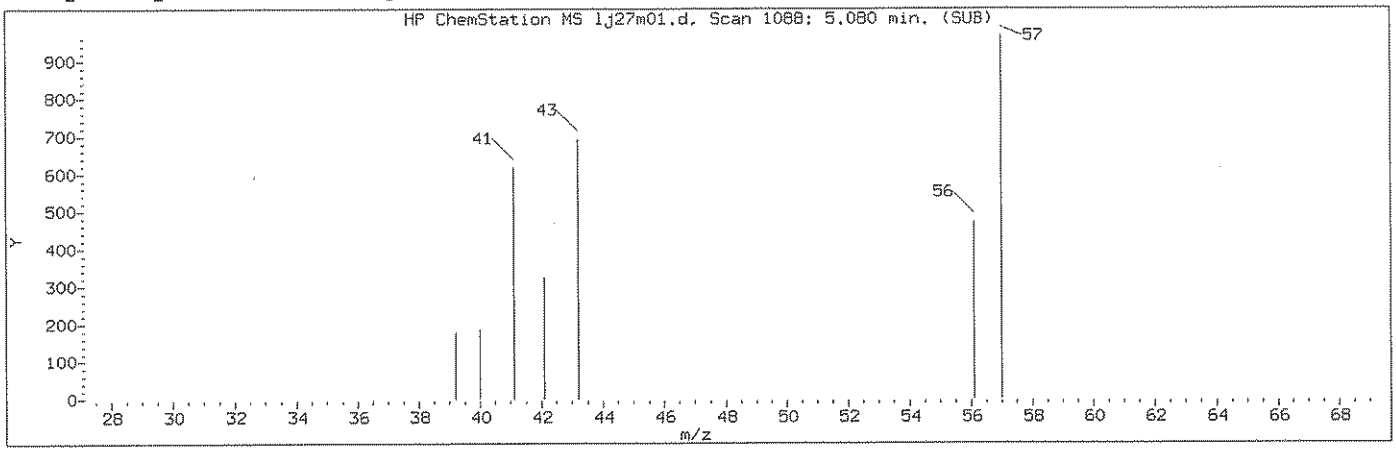
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

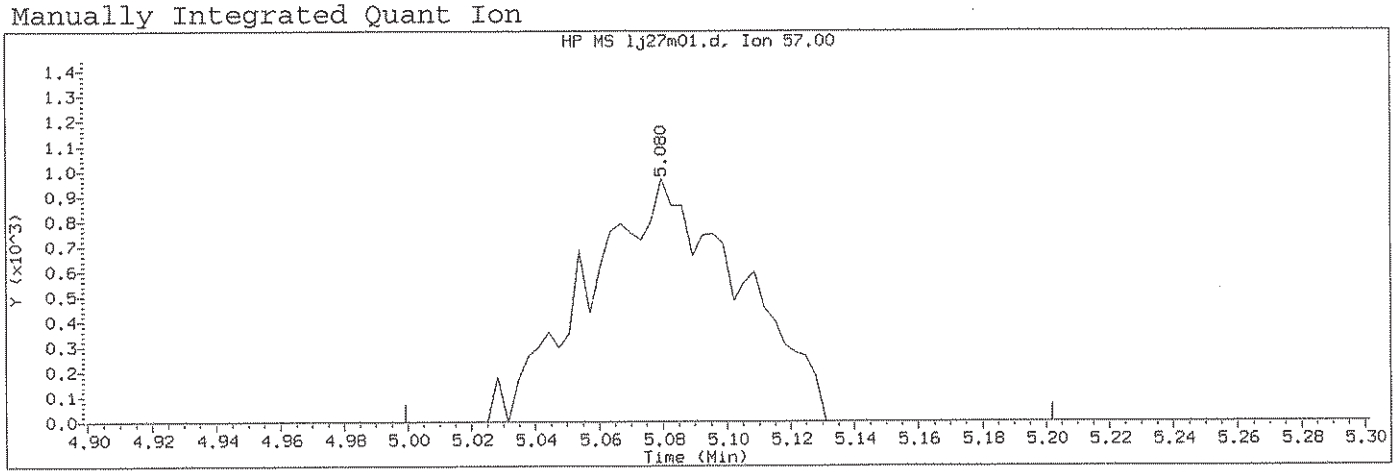
Compound Number	: 32		
Compound Name	: trans-1,2-Dichloroethene		
Scan Number	: 960		
Retention Time (minutes)	: 4.668		
Quant Ion	: 96.00		
Area	: 652		
On-column Amount (ng)	: 0.1183		
Integration start scan	: 955	Integration stop scan:	960
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature user: [illegible]

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

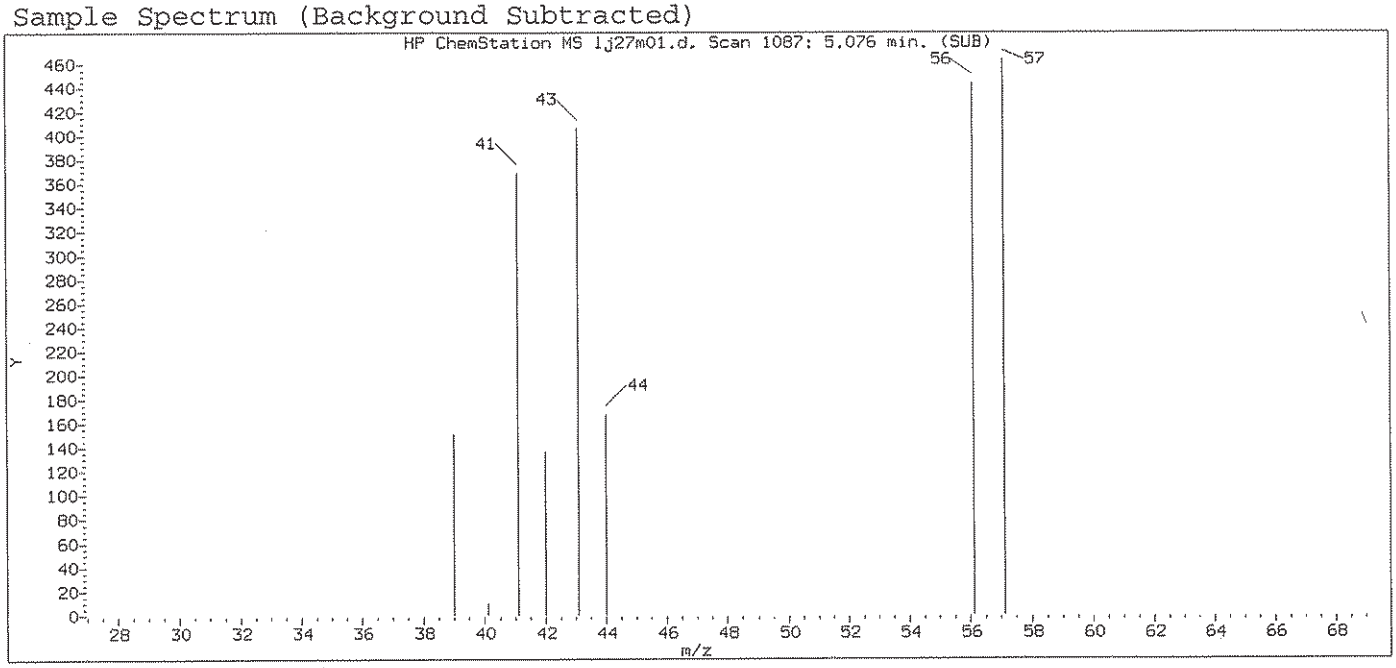
Compound Number	: 34		
Compound Name	: n-Hexane		
Scan Number	: 1088		
Retention Time (minutes)	: 5.080		
Quant Ion	: 57.00		
Area (flag)	: 3190M		
On-Column Amount (ng)	: 0.3833		
Integration start scan	: 1062	Integration stop scan:	1125
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

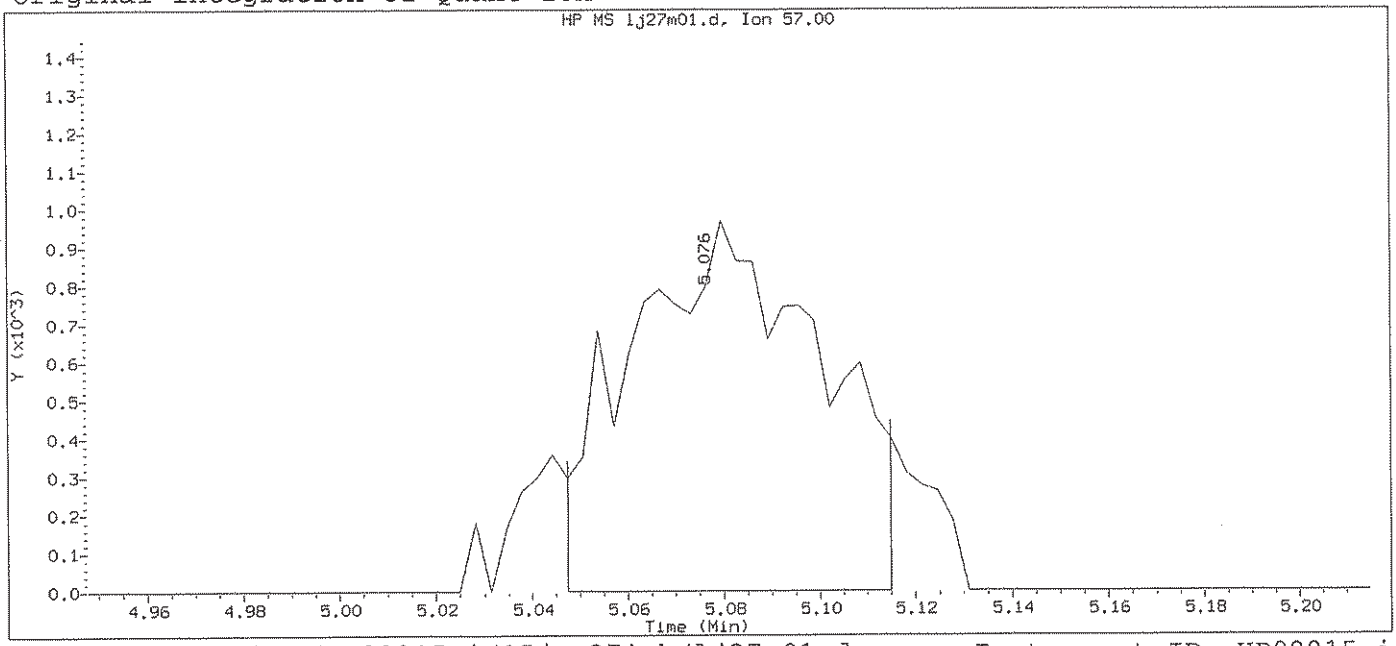
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

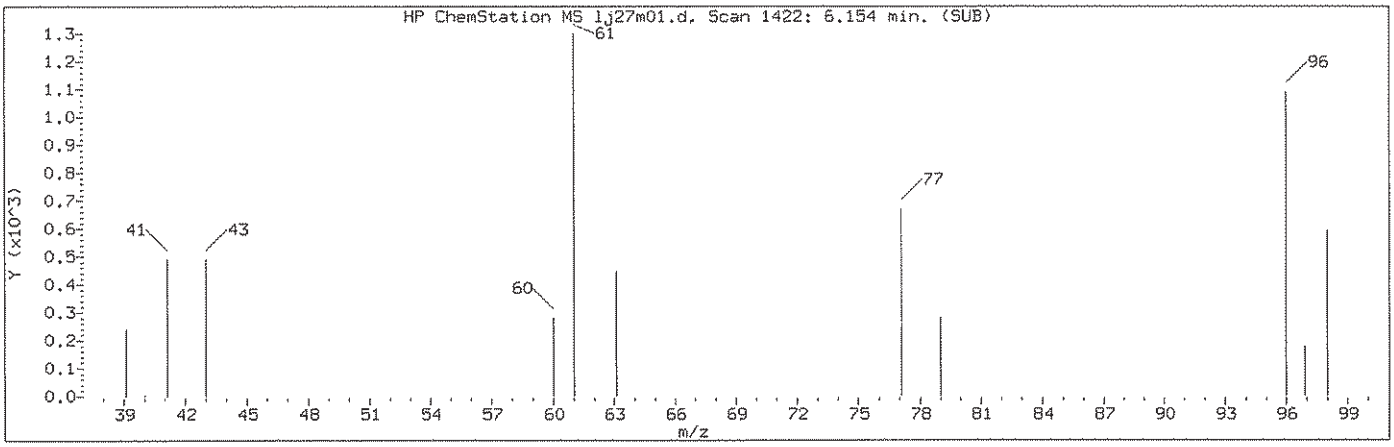
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

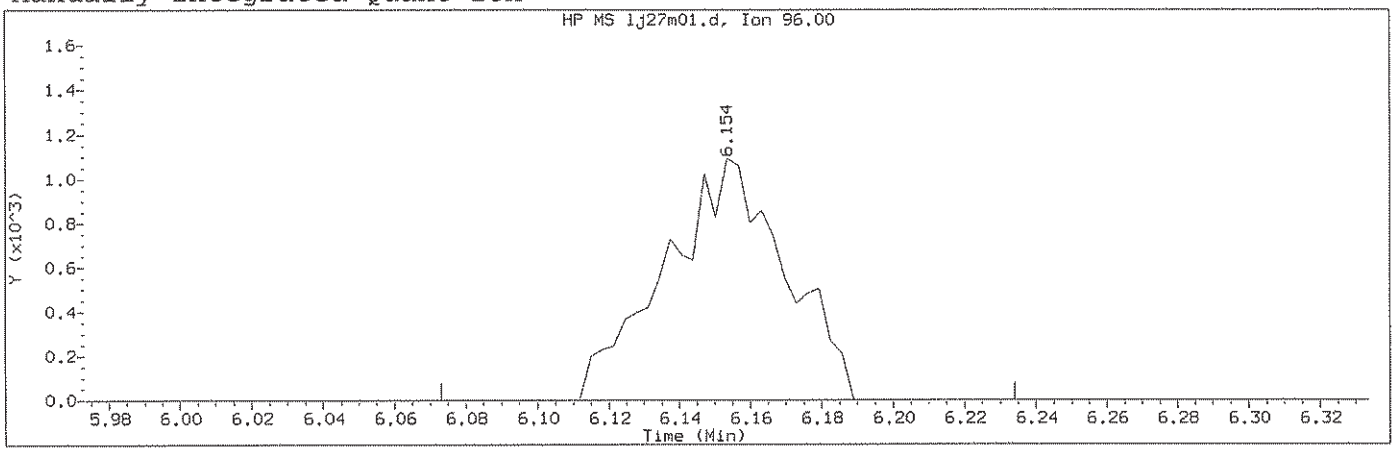
Compound Number	: 34		
Compound Name	: n-Hexane		
Scan Number	: 1087		
Retention Time (minutes)	: 5.076		
Quant Ion	: 57.00		
Area	: 2680		
On-column Amount (ng)	: 0.3221		
Integration start scan	: 1077	Integration stop scan:	1098
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature using PIN. Page 03074

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

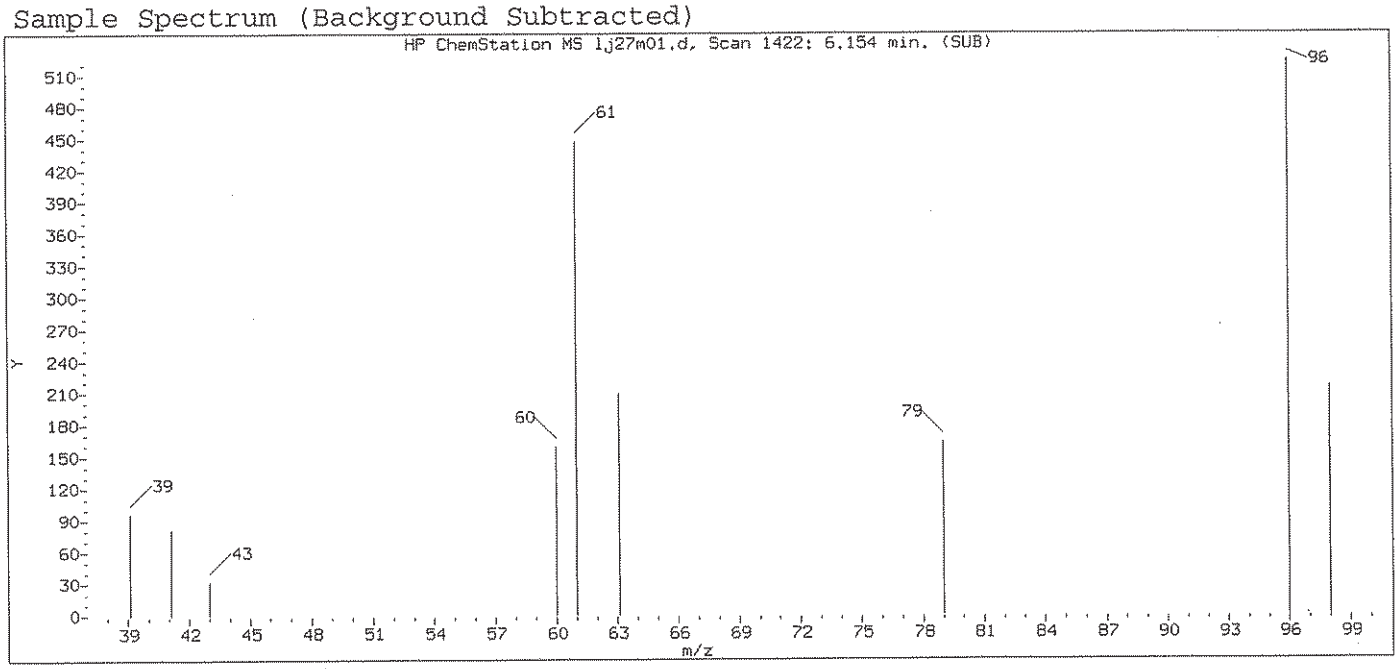
Compound Number	: 42		
Compound Name	: cis-1,2-Dichloroethene		
Scan Number	: 1422		
Retention Time (minutes)	: 6.154		
Quant Ion	: 96.00		
Area (flag)	: 2566M		
On-Column Amount (ng)	: 0.4228		
Integration start scan	: 1396	Integration stop scan:	1446
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

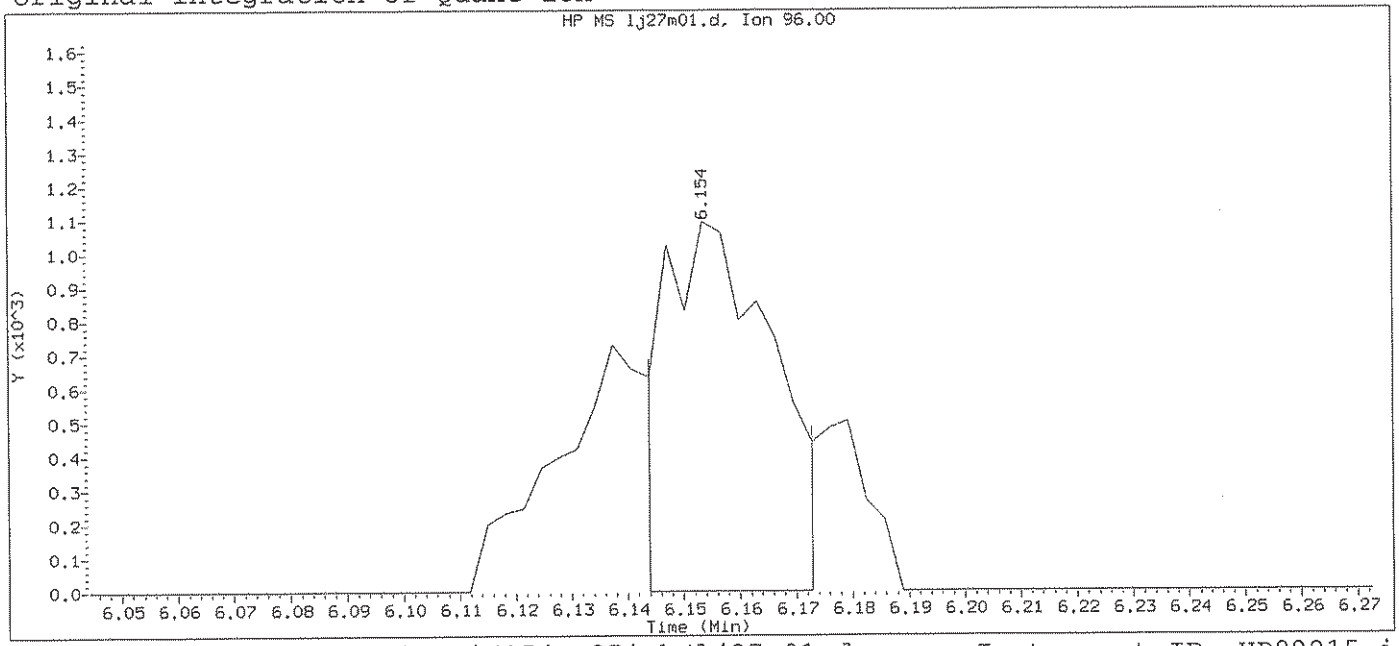
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/11/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 42		
Compound Name	: cis-1,2-Dichloroethene		
Scan Number	: 1422		
Retention Time (minutes)	: 6.154		
Quant Ion	: 96.00		
Area	: 1448		
On-column Amount (ng)	: 0.2386		
Integration start scan	: 1418	Integration stop scan:	1427
Y at integration start	: 0	Y at integration end:	0

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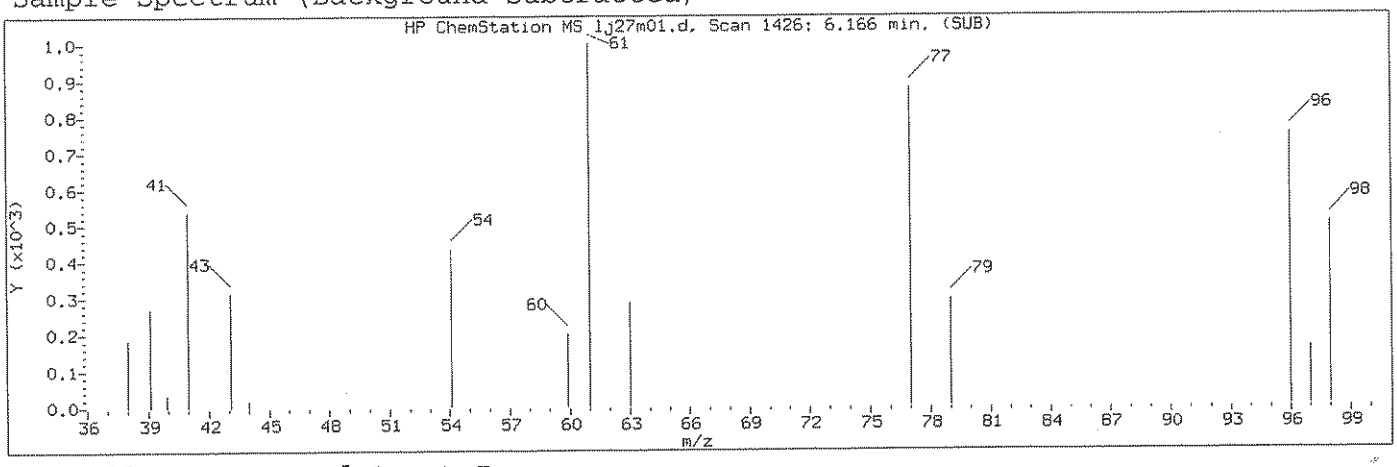
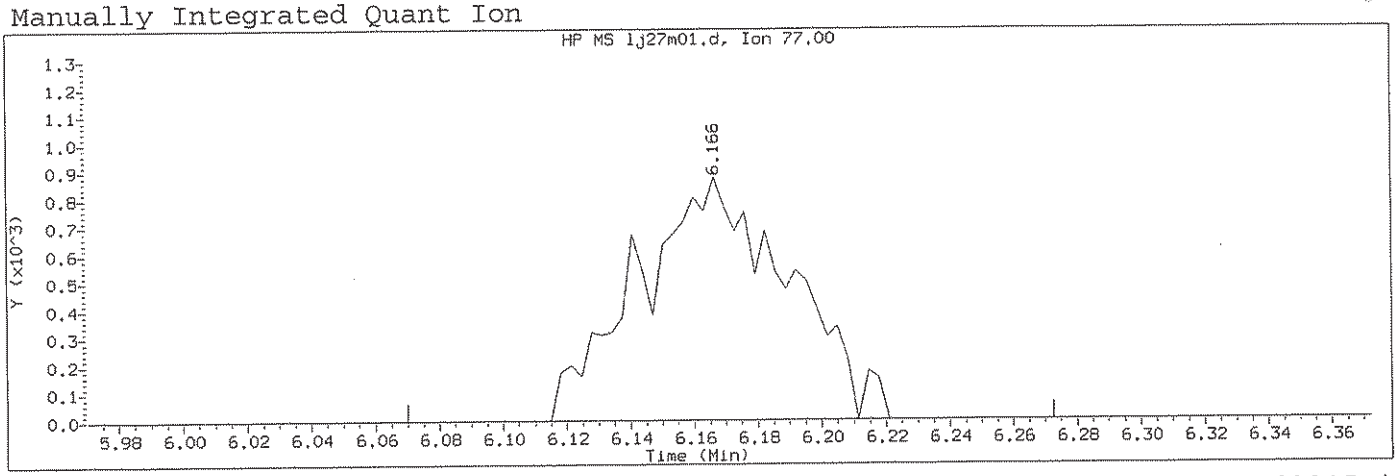
Target 3.5 esignature used. Page 0284

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

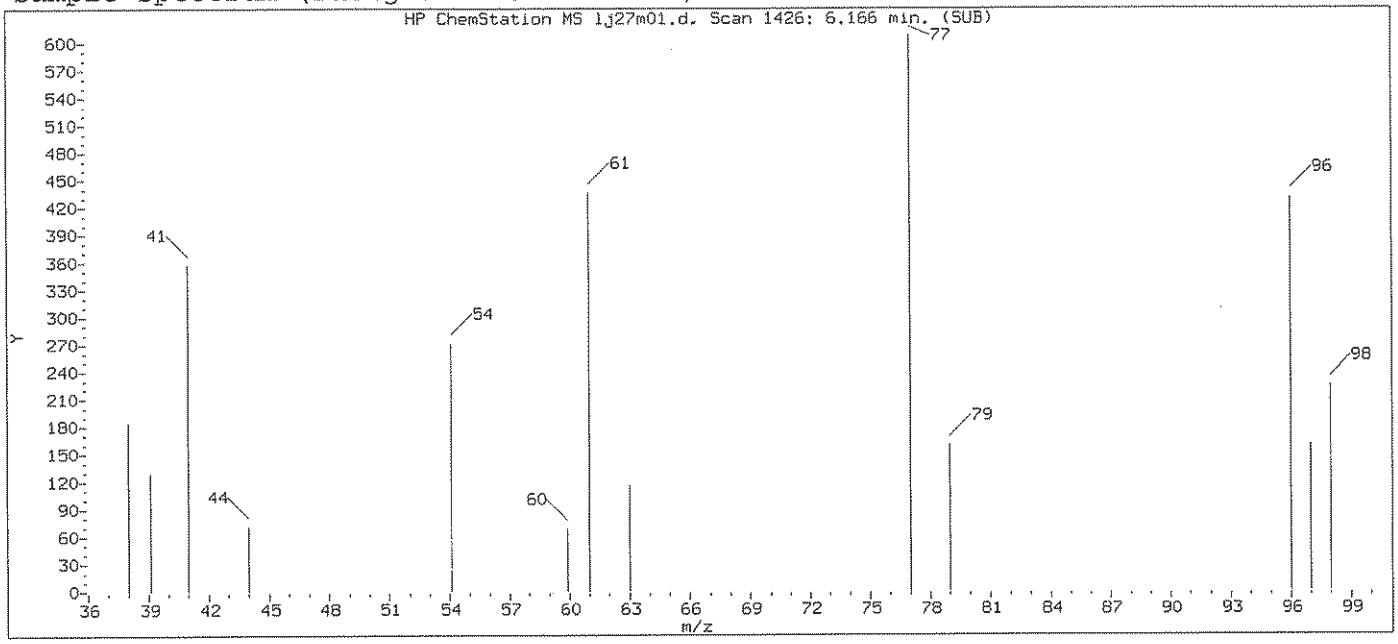
Compound Number	: 45		
Compound Name	: 2,2-Dichloropropane		
Scan Number	: 1426		
Retention Time (minutes)	: 6.166		
Quant Ion	: 77.00		
Area (flag)	: 2887M		
On-Column Amount (ng)	: 0.3753		
Integration start scan	: 1395	Integration stop scan:	1458
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

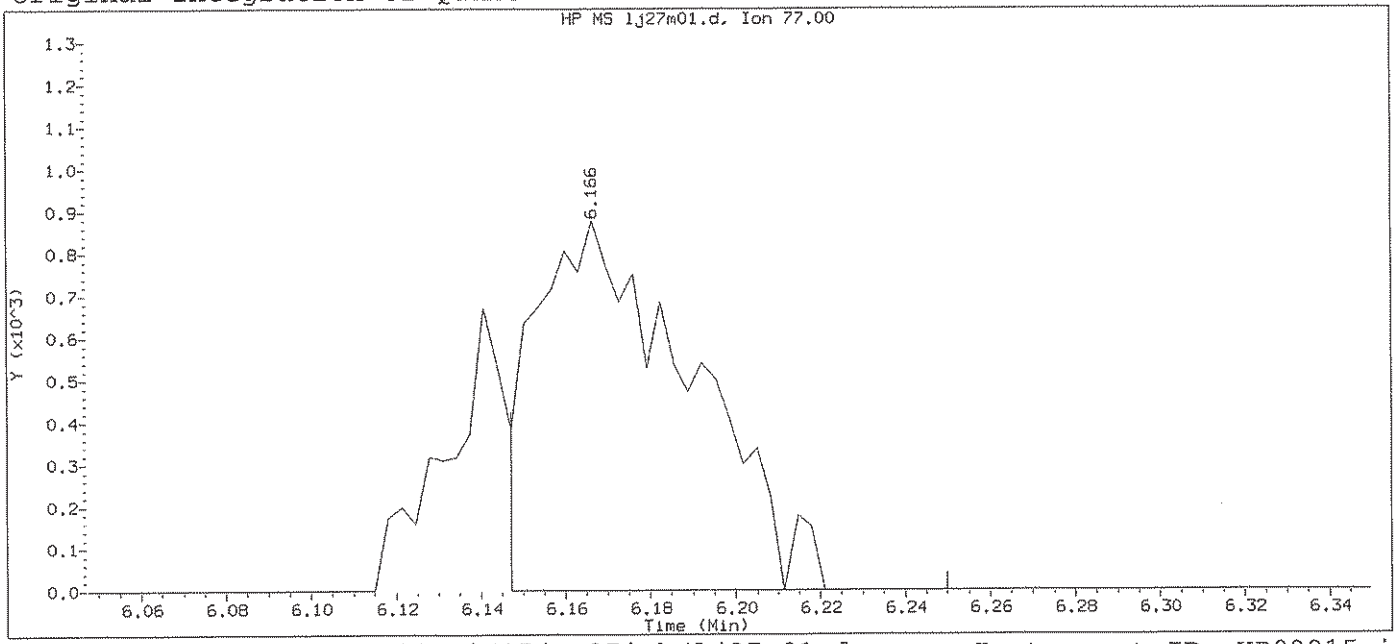
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 45		
Compound Name	: 2,2-Dichloropropane		
Scan Number	: 1426		
Retention Time (minutes)	: 6.166		
Quant Ion	: 77.00		
Area	: 2260		
On-column Amount (ng)	: 0.2938		
Integration start scan	: 1419	Integration stop scan:	1451
Y at integration start	: 0	Y at integration end:	0

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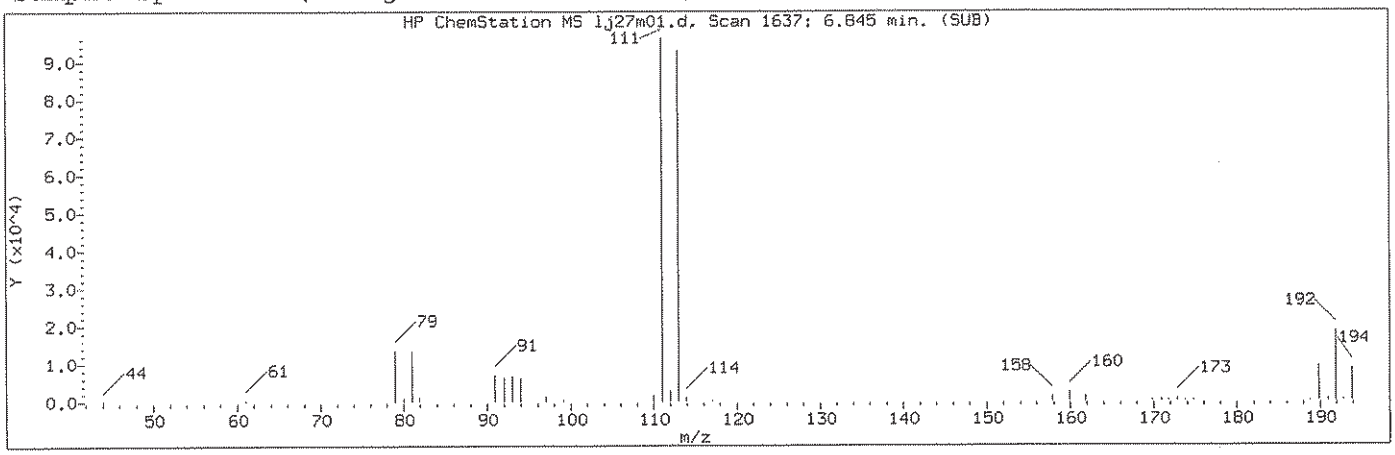
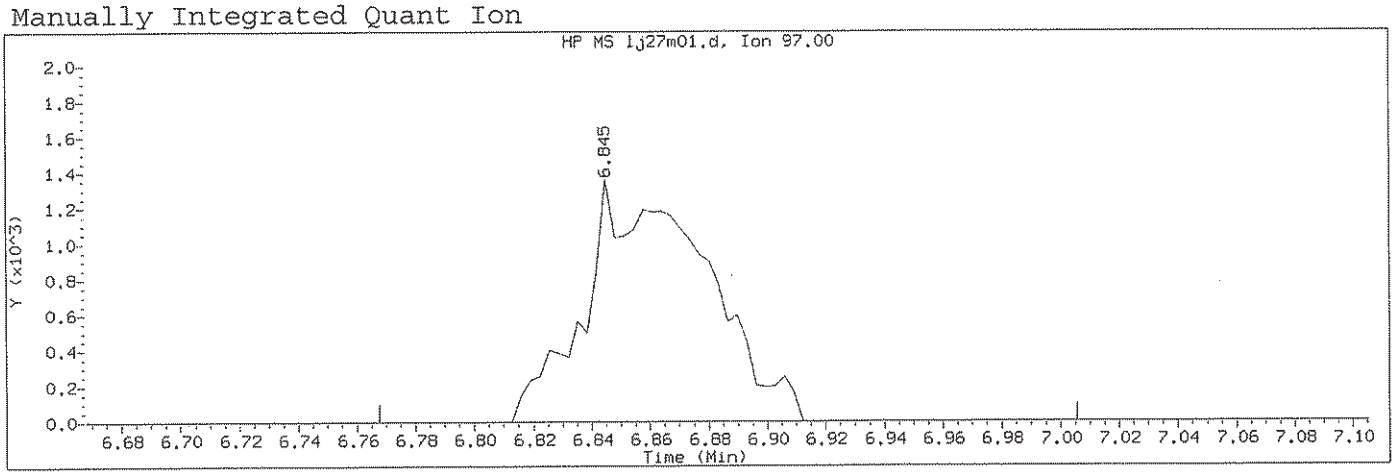
Target 3.5 esignature used. PDF Page 03274

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

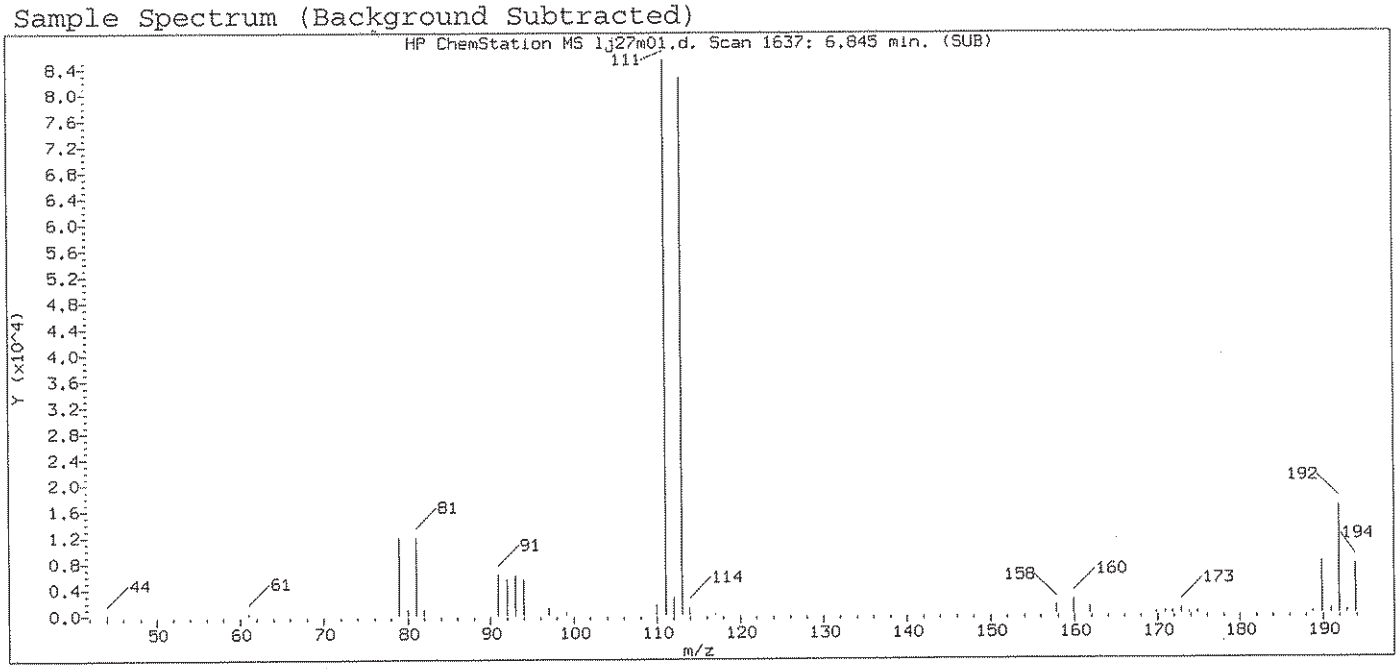
Compound Number : 53
Compound Name : 1,1,1-Trichloroethane
Scan Number : 1637
Retention Time (minutes): 6.845
Quant Ion : 97.00
Area (flag) : 3906M
On-Column Amount (ng) : 0.4269
Integration start scan : 1612 Integration stop scan: 1686
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

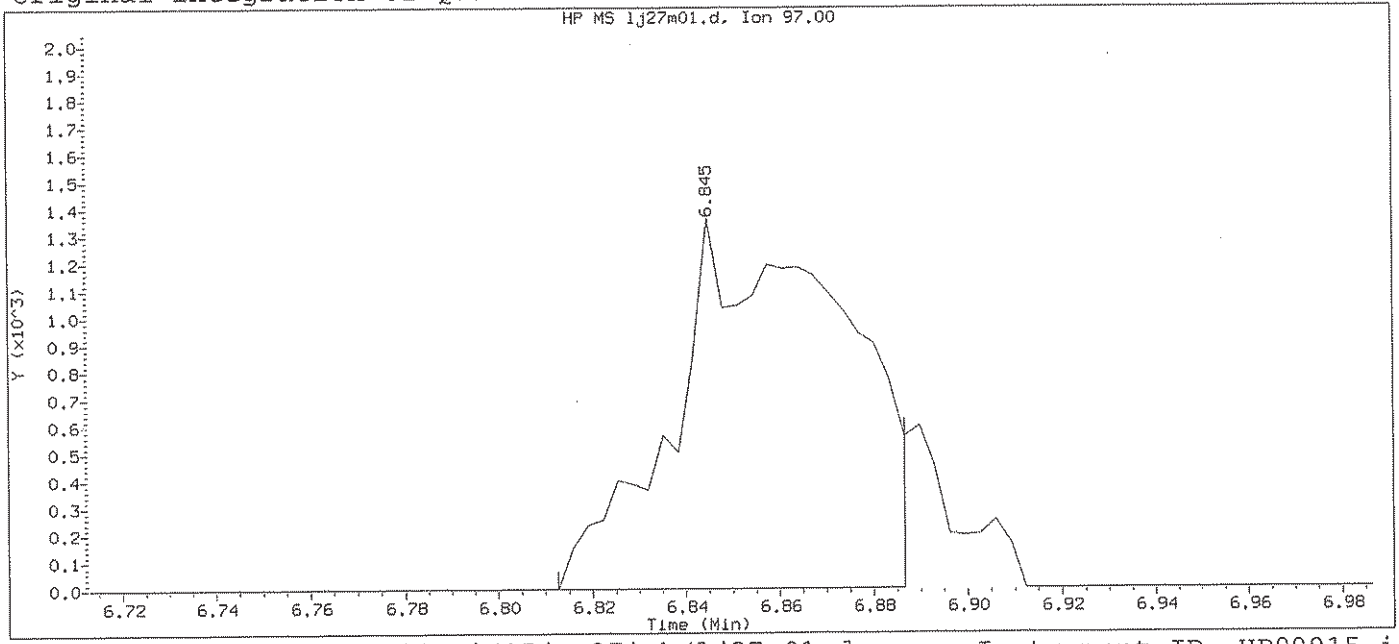
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 53		
Compound Name	: 1,1,1-Trichloroethane		
Scan Number	: 1637		
Retention Time (minutes)	: 6.845		
Quant Ion	: 97.00		
Area	: 3455		
On-column Amount (ng)	: 0.3776		
Integration start scan	: 1626	Integration stop scan:	1649
Y at integration start	: 0	Y at integration end:	0

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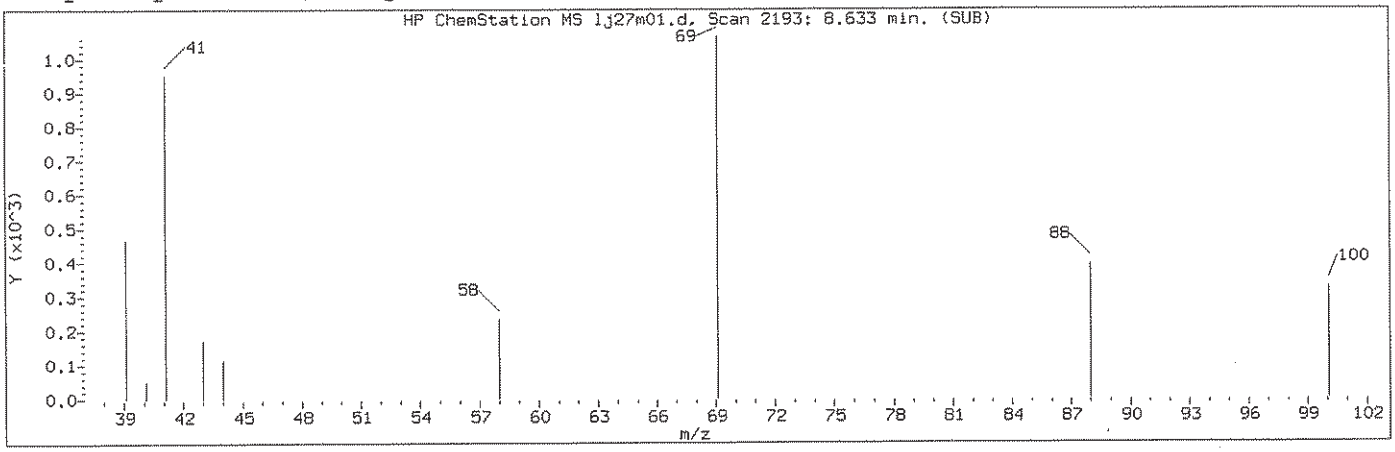
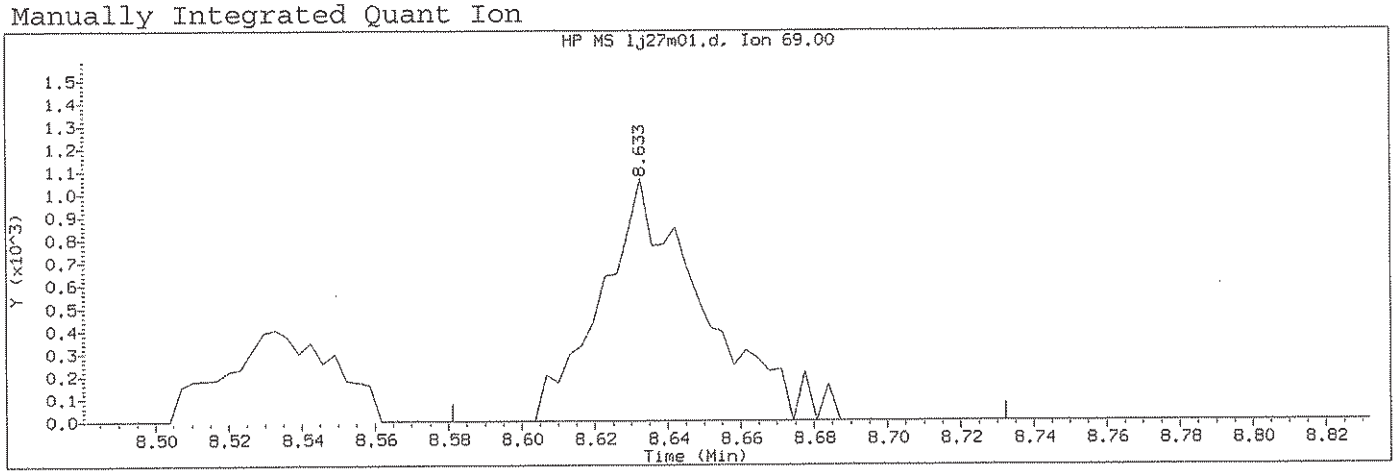
Target 3.5 esignature used: 03274

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

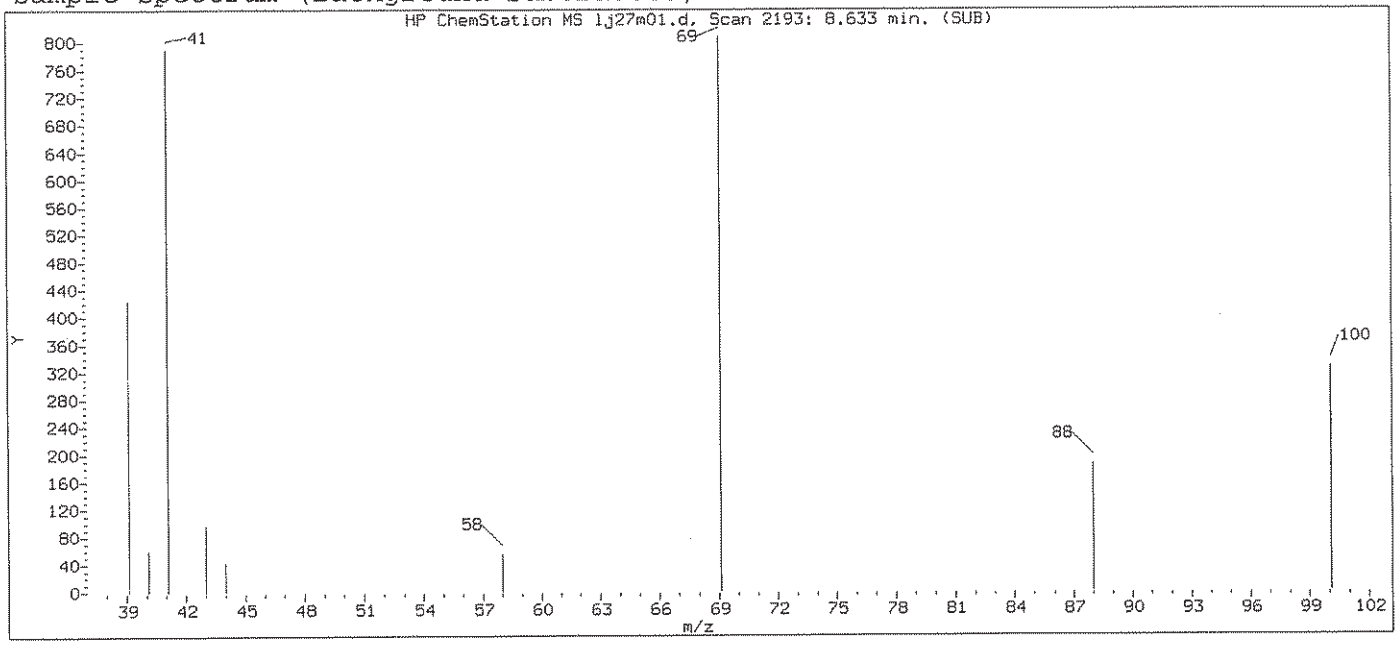
Compound Number	: 76		
Compound Name	: Methyl Methacrylate		
Scan Number	: 2193		
Retention Time (minutes)	: 8.633		
Quant Ion	: 69.00		
Area (flag)	: 2065M		
On-Column Amount (ng)	: 0.3939		
Integration start scan	: 2176	Integration stop scan:	2223
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

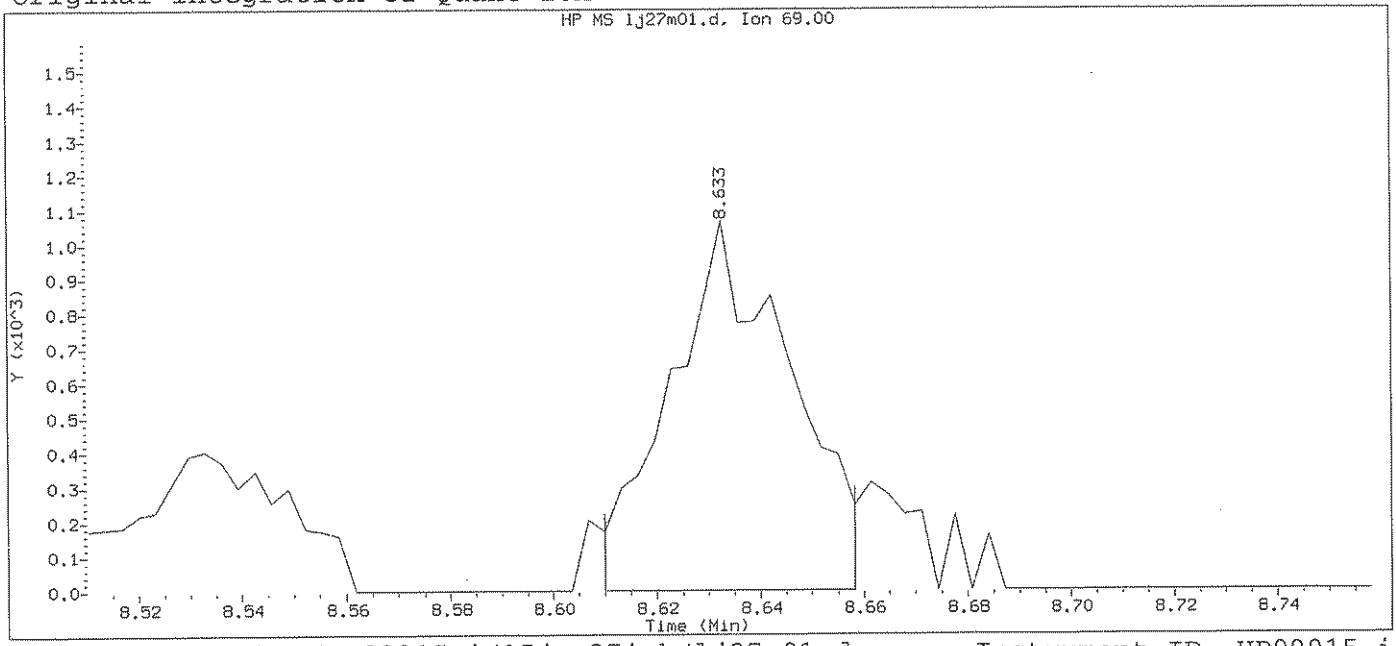
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 76		
Compound Name	: Methyl Methacrylate		
Scan Number	: 2193		
Retention Time (minutes)	: 8.633		
Quant Ion	: 69.00		
Area	: 1713		
On-column Amount (ng)	: 0.3269		
Integration start scan	: 2185	Integration stop scan:	2200
Y at integration start	: 0	Y at integration end:	0

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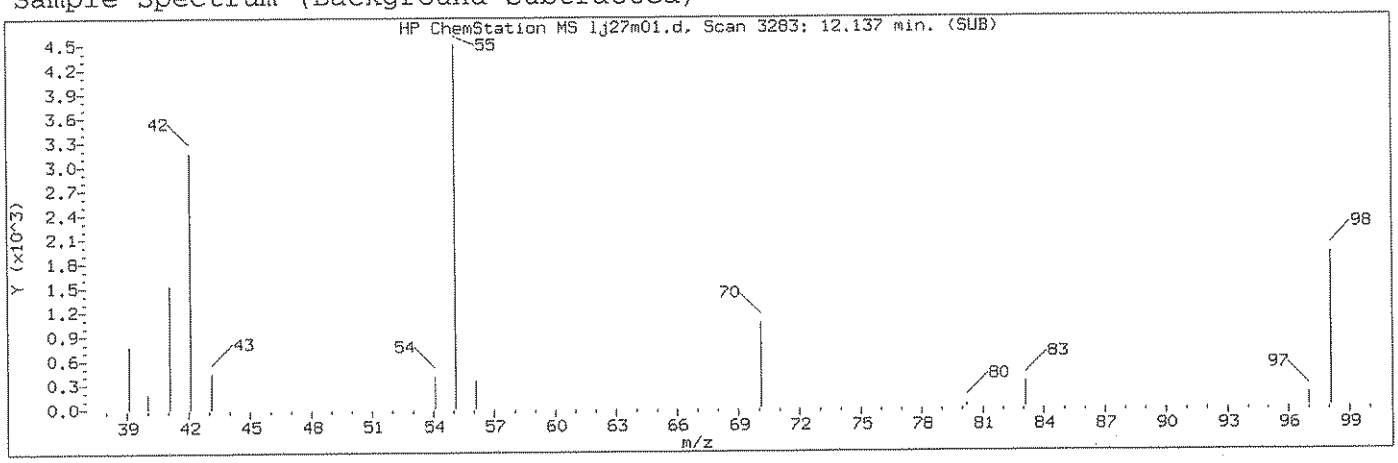
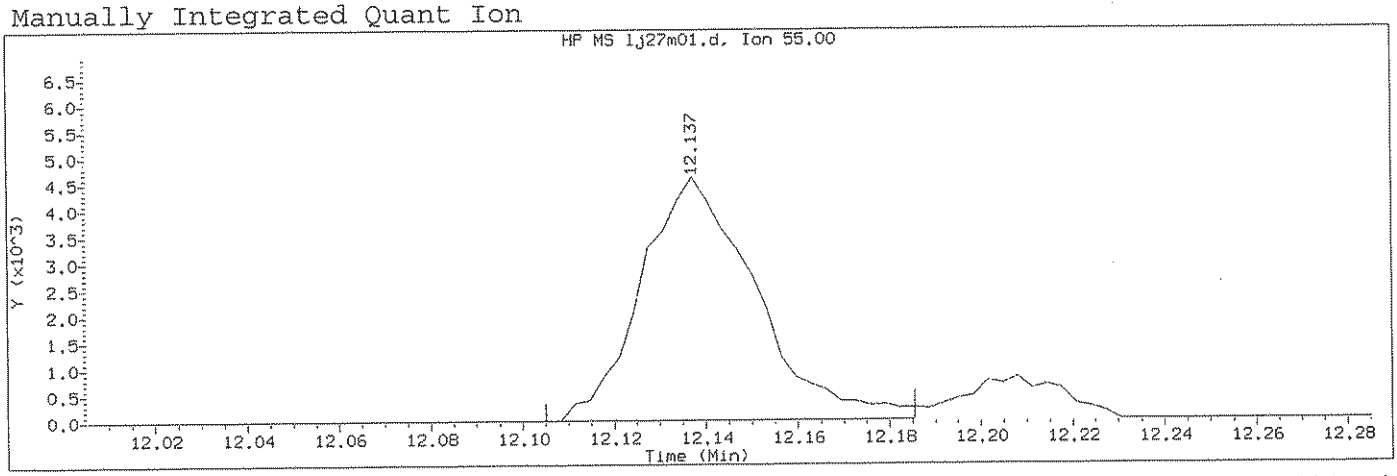
Target 3.5 esignature used: 03074

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

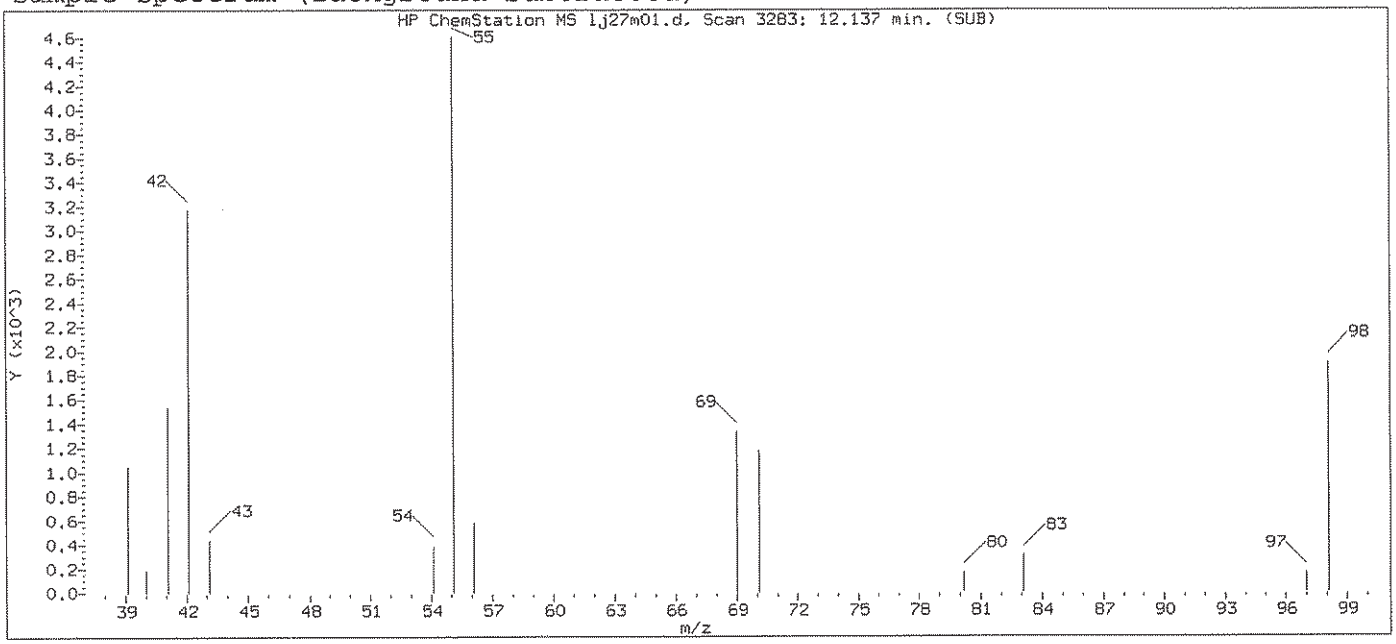
Compound Number	: 112		
Compound Name	: Cyclohexanone		
Scan Number	: 3283		
Retention Time (minutes)	: 12.137		
Quant Ion	: 55.00		
Area (flag)	: 7999M		
On-Column Amount (ng)	: 23.2066		
Integration start scan	: 3272	Integration stop scan:	3297
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

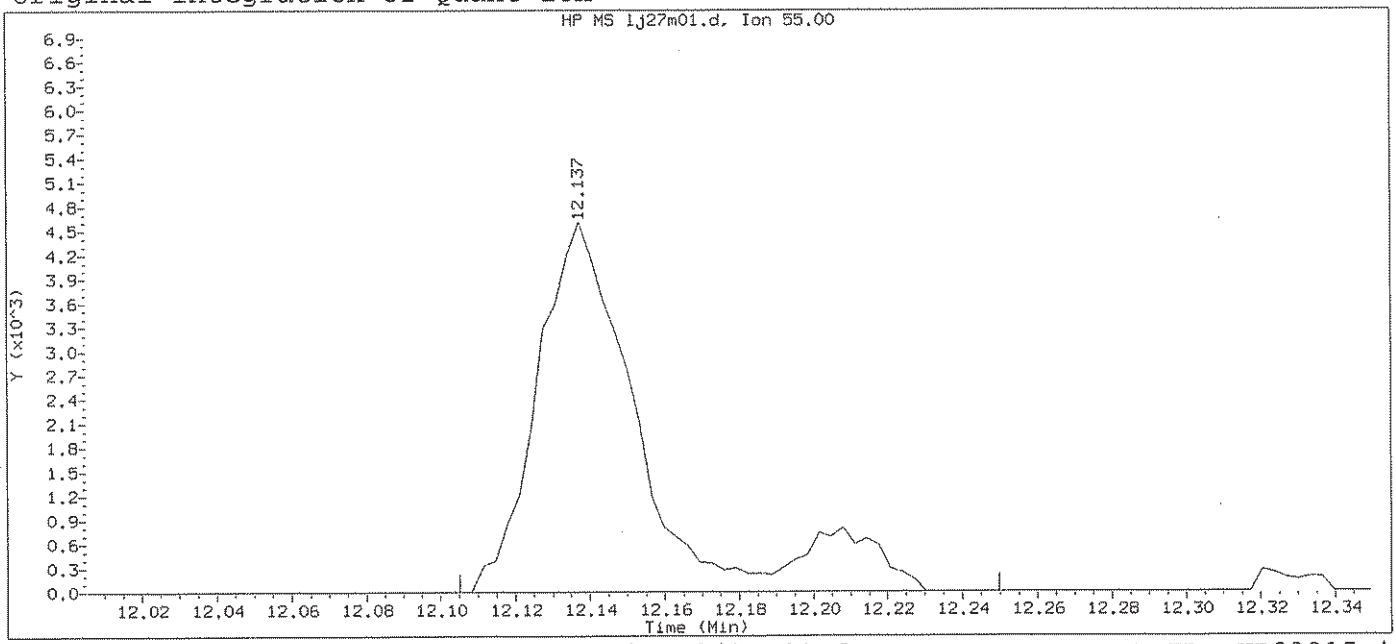
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number	: 112		
Compound Name	: Cyclohexanone		
Scan Number	: 3283		
Retention Time (minutes)	: 12.137		
Quant Ion	: 55.00		
Area	: 9184		
On-column Amount (ng)	: 26.6453		
Integration start scan	: 3272	Integration stop scan:	3317
Y at integration start	: 0	Y at integration end:	0

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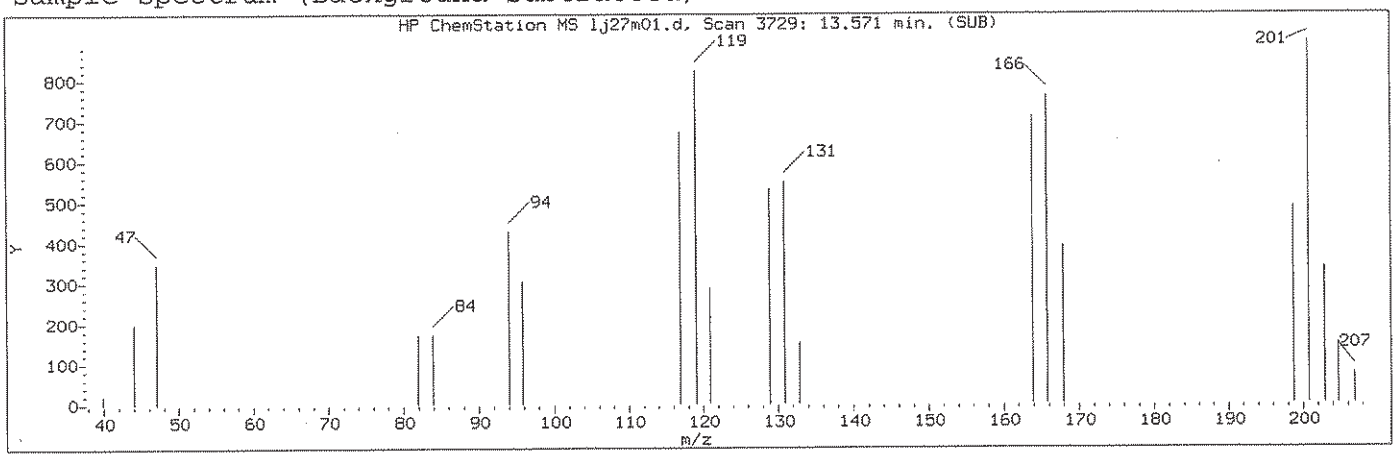
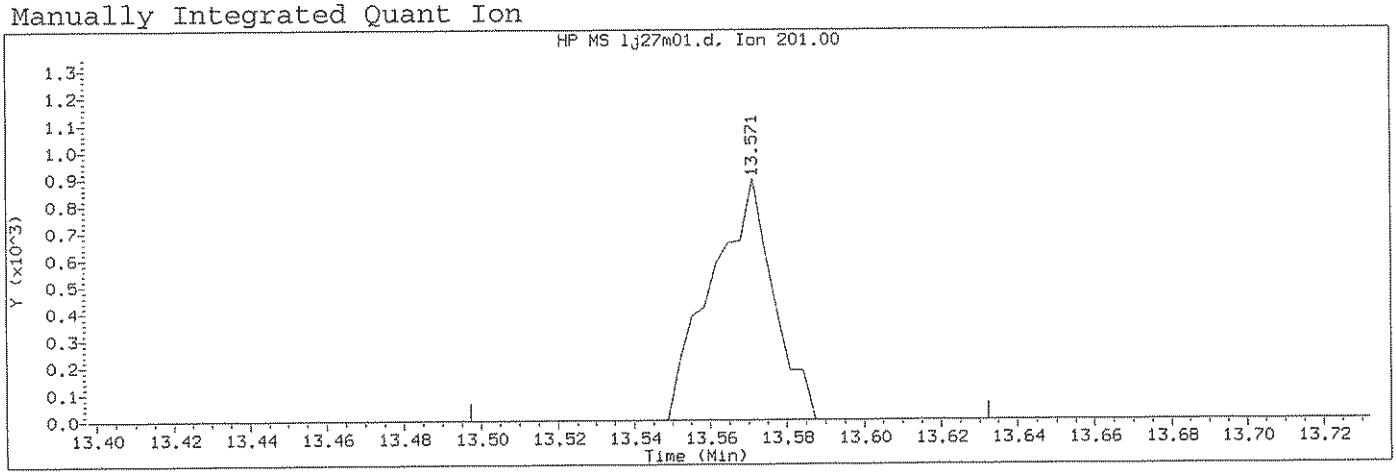
Target 3.5 esignature use[illegible] Page 0274

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

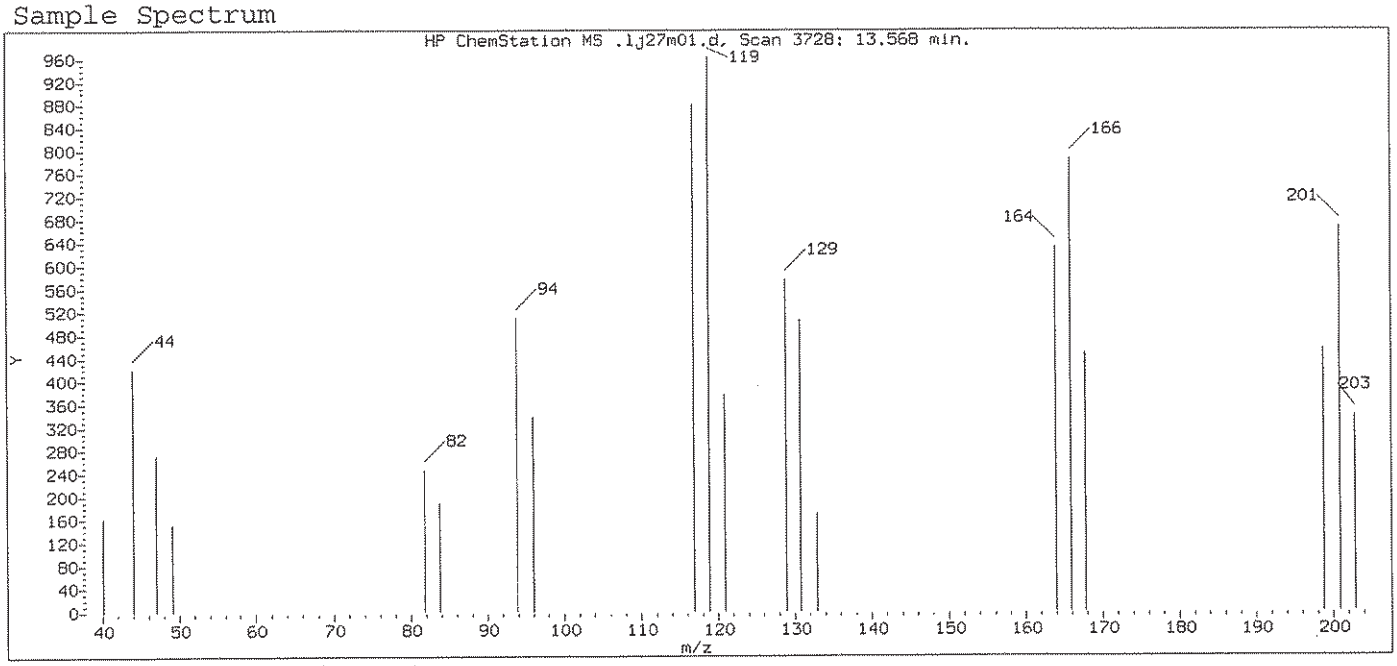
Compound Number	: 145		
Compound Name	: Hexachloroethane		
Scan Number	: 3729		
Retention Time (minutes)	: 13.571		
Quant Ion	: 201.00		
Area (flag)	: 1009M		
On-Column Amount (ng)	: 0.2952		
Integration start scan	: 3705	Integration stop scan:	3747
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

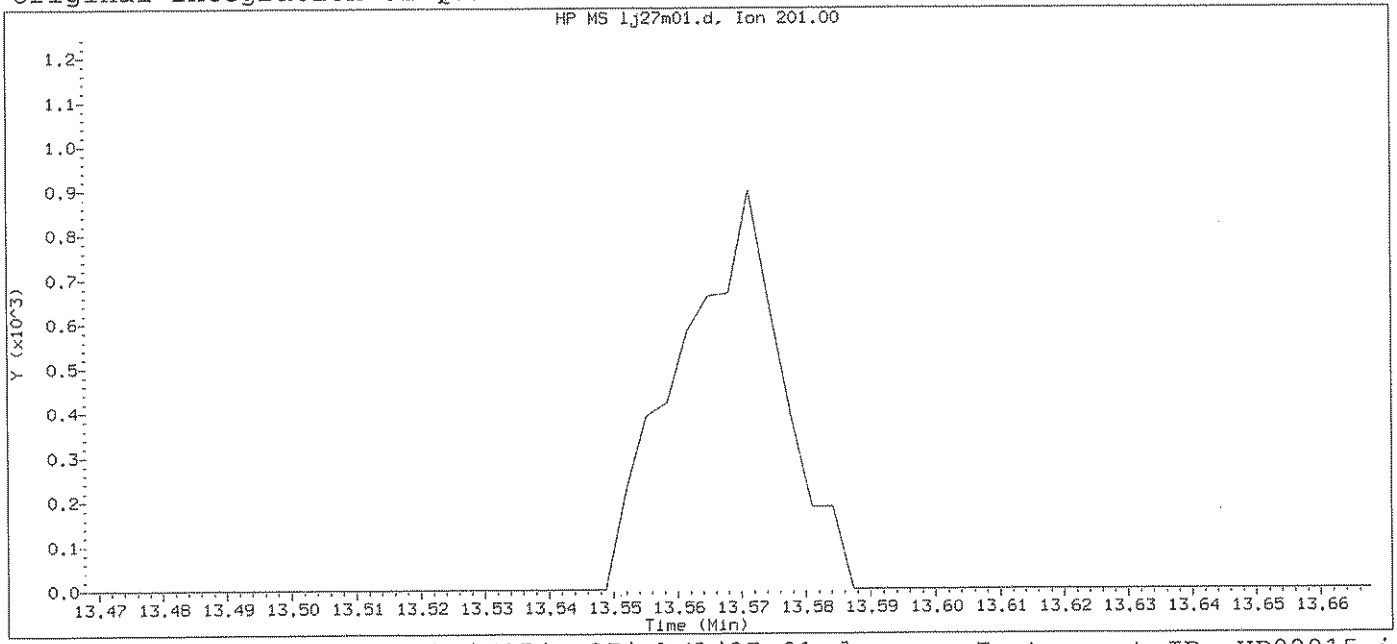
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ Mixler

Sample Spectrum



Original Integration of Quant Ion



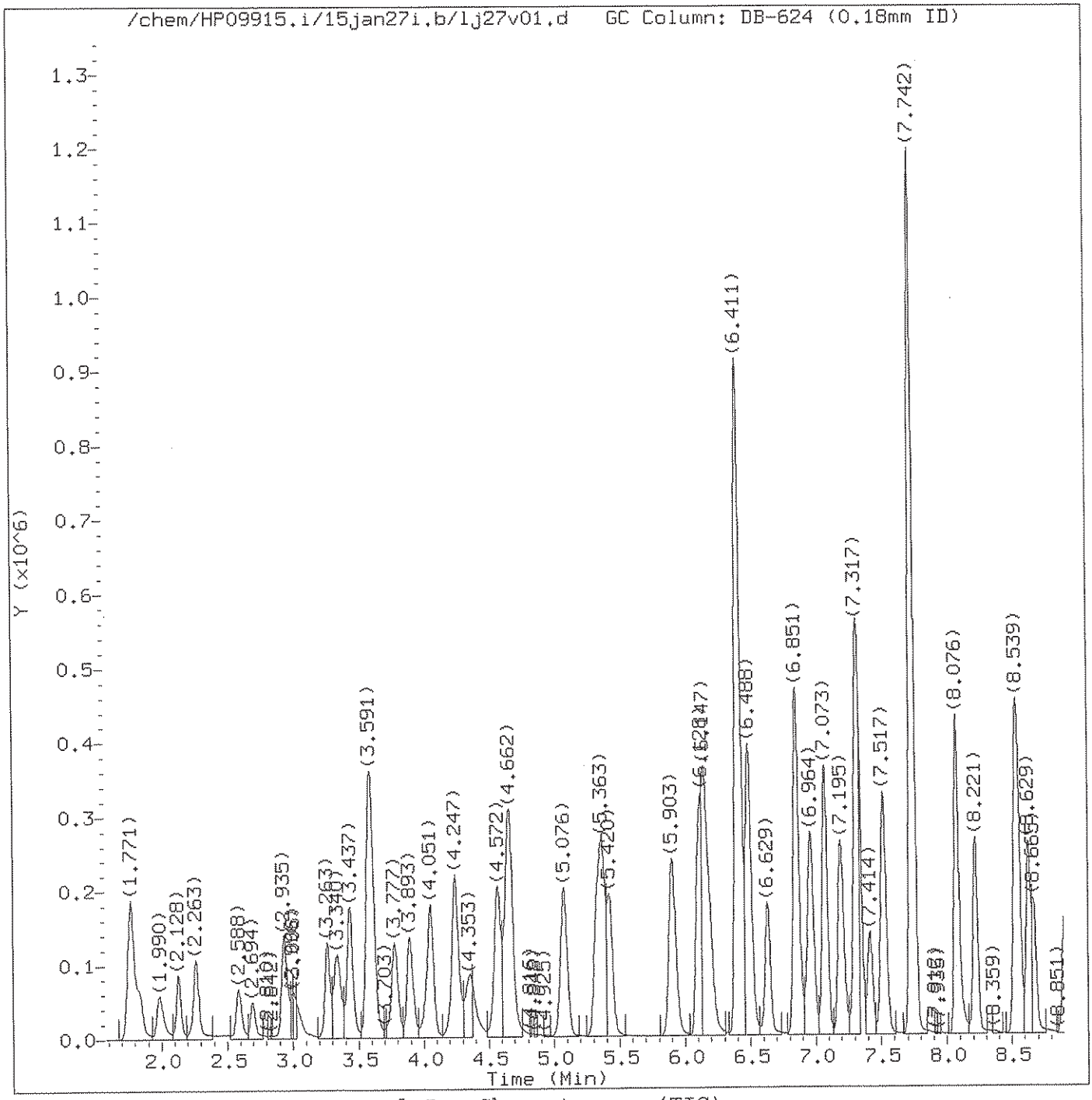
Data File: /chem/HP09915.i/15jan27i.b/lj27m01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:01 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: MDLD0.5 Lab Sample ID: MDL 0.5

Compound Number : 145
Compound Name : Hexachloroethane
Expected RT (minutes) : 13.568
Quant Ion : 201.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d
Injection date and time: 27-JAN-2015 18:23

Instrument ID: HP09915.i
Analyst ID: KEL01973

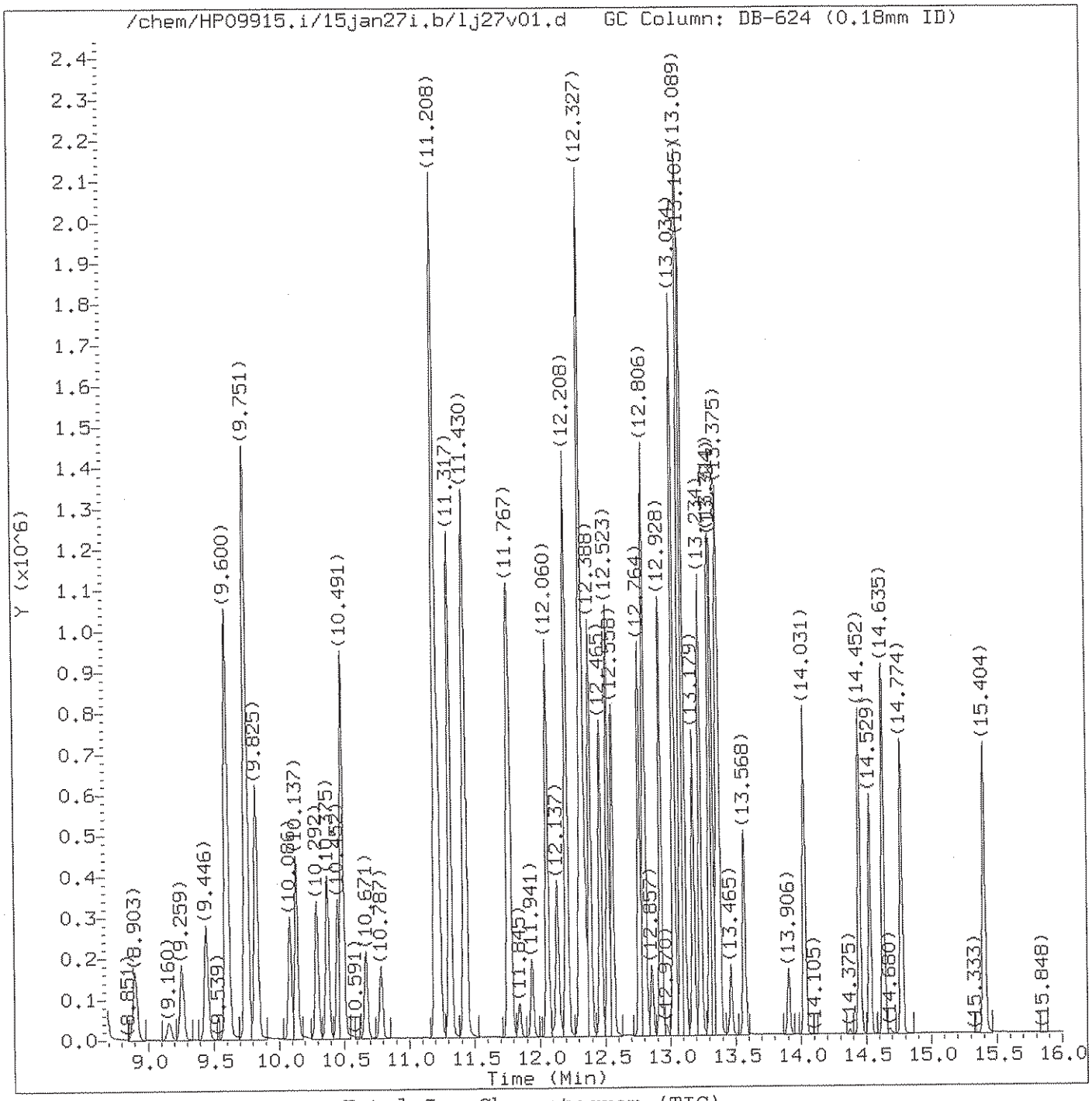
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sublist used: 8260W-BN

Sample Name: LGLICV

Lab Sample ID: LGLICV

Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d
Injection date and time: 27-JAN-2015 18:23

Instrument ID: HP09915.i
Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sublist used: 8260W-BN

Sample Name: LGLICV

Lab Sample ID: LGLICV

Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.986	85	118440	17.738
4) Chloromethane	(2)	2.128	50	121080M	17.100
6) Vinyl Chloride	(2)	2.266	62	115803	17.644
8) Bromomethane	(2)	2.588	94	61712	15.759
9) Chloroethane	(2)	2.691	64	57268	16.146
43) 1,2-Dichloroethene (Total)	(2)		96	240224	42.262
10) Dichlorofluoromethane	(2)	2.935	67	174195	19.298
12) Trichlorofluoromethane	(2)	3.006	101	131123	18.447
14) Ethyl ether	(2)	3.263	59	109305	20.821
15) Freon 123a	(2)	3.340	67	130006	20.352
16) Acrolein	(1)	3.440	56	264695	164.677
17) 1,1-Dichloroethene	(2)	3.575	96	97760	20.531
18) Acetone	(1)	3.597	58	112946M	174.389
19) Freon 113	(2)	3.601	101	105402	21.863
21) 2-Propanol	(1)	3.758	45	103950	188.590
22) Methyl Iodide	(2)	3.777	142	190921	22.188
23) Carbon Disulfide	(2)	3.890	76	344284	21.685
27) Methyl Acetate	(2)	4.019	43	116449	21.243
25) Allyl Chloride	(2)	4.054	41	181457	22.184
29)*t-Butyl alcohol-d10	(1)	4.237	65	213047	250.000
28) Methylene Chloride	(2)	4.247	84	122137	20.672
30) t-Butyl alcohol	(1)	4.359	59	242708	267.820
31) Acrylonitrile	(2)	4.565	53	310922	111.165
33) Methyl Tertiary Butyl Ether	(2)	4.646	73	379526	21.649
32) trans-1,2-Dichloroethene	(2)	4.668	96	114336	21.127
34) n-Hexane	(2)	5.076	57	192933	23.618
36) 1,1-Dichloroethane	(2)	5.324	63	205243	20.571
38) di-Isopropyl ether	(2)	5.366	45	418216	22.222
39) 2-Chloro-1,3-butadiene	(2)	5.427	53	175332	20.690
90) 1,3-Dichloropropene (total)	(3)		100	363313	42.547
40) Ethyl t-butyl ether	(2)	5.903	59	391003	21.551
44) 2-Butanone	(2)	6.108	43	585642	167.695
42) cis-1,2-Dichloroethene	(2)	6.147	96	125888	21.135
45) 2,2-Dichloropropane	(2)	6.163	77	151579	20.076
47) Propionitrile	(1)	6.192	54	202353	176.270
48) Methacrylonitrile	(2)	6.411	67	542336	172.649
49) Bromochloromethane	(2)	6.485	128	61901	21.239
50) Tetrahydrofuran	(1)	6.498	71	103455	111.809

M = Compound was manually integrated.
* = Compound is an internal standard.

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on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
51) Chloroform	(2)	6.633	83	196454	20.755
52)$Dibromofluoromethane	(2)	6.851	113	277436	49.409
53) 1,1,1-Trichloroethane	(2)	6.861	97	176560	19.661
54) Cyclohexane	(2)	6.964	56	221974	21.952
56) Carbon Tetrachloride	(2)	7.070	117	138083	20.628
55) 1,1-Dichloropropene	(2)	7.073	75	159833	21.397
58) Isobutyl Alcohol	(1)	7.195	41	198738	654.442
57)$1,2-Dichloroethane-d4	(2)	7.311	102	69305	49.857
60) Benzene	(2)	7.337	78	479099	20.659
61) 1,2-Dichloroethane	(2)	7.414	62	152709	20.885
65) t-Amyl methyl ether	(2)	7.517	73	389592	22.257
66)*Fluorobenzene	(2)	7.739	96	1175177	50.000
67) n-Heptane	(2)	7.745	43	192848	22.326
108) Xylene (Total)	(3)		106	677815	64.218
69) n-Butanol	(1)	8.076	56	363265	1357.889
71) Trichloroethene	(2)	8.218	95	121906	20.631
72) Methylcyclohexane	(2)	8.530	83	216948	21.157
73) 1,2-Dichloropropane	(2)	8.559	63	127235	20.652
76) Methyl Methacrylate	(2)	8.626	69	120782	23.475
75) 1,4-Dioxane	(1)	8.639	88	57501M	628.787
74) Dibromomethane	(2)	8.671	93	77365	20.187
78) Bromodichloromethane	(2)	8.903	83	142658	20.100
79) 2-Nitropropane	(2)	9.160	41	32799	20.029
80) 2-Chloroethyl Vinyl Ether	(2)	9.259	63	96801	21.659
81) cis-1,3-Dichloropropene	(2)	9.446	75	189293	21.007
82) 4-Methyl-2-pentanone	(2)	9.604	43	840422	110.141
83)$Toluene-d8	(3)	9.748	98	1145631	49.692
141) Diethylbenzene (total)	(4)		100	958183	61.327
88) Toluene	(3)	9.825	92	302904	21.060
89) trans-1,3-Dichloropropene	(3)	10.086	75	174020	21.540
91) Ethyl Methacrylate	(3)	10.137	69	244994	26.563
92) 1,1,2-Trichloroethane	(3)	10.292	97	113960	20.940
93) Tetrachloroethene	(3)	10.372	166	127402	20.809
94) 1,3-Dichloropropane	(3)	10.452	76	196410	20.794
96) 2-Hexanone	(3)	10.491	43	619987	112.139
97) Dibromochloromethane	(3)	10.671	129	115875	21.129
99) 1,2-Dibromoethane	(3)	10.787	107	125140	21.437
100)*Chlorobenzene-d5	(3)	11.208	117	885484	50.000

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$ = Compound is a surrogate standard.

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on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/1j27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
101) 1-Chlorohexane	(3)	11.211	91	162517	20.677
102) Chlorobenzene	(3)	11.234	112	329762	20.890
103) 1,1,1,2-Tetrachloroethane	(3)	11.314	131	110851	21.492
104) Ethylbenzene	(3)	11.317	91	582577	21.141
106) m+p-Xylene	(3)	11.433	106	454830	42.773
107) o-Xylene	(3)	11.761	106	222985	21.445
109) Styrene	(3)	11.777	104	380330	21.841
110) Bromoform	(3)	11.941	173	81521	19.920
111) Isopropylbenzene	(3)	12.060	105	589956	21.204
112) Cyclohexanone	(1)	12.134	55	164206M	484.492
114)$4-Bromofluorobenzene	(3)	12.208	95	452110	49.257
116) 1,1,2,2-Tetrachloroethane	(4)	12.304	83	179196	20.866
115) Bromobenzene	(4)	12.324	156	148530	21.310
118) trans-1,4-Dichloro-2-butene	(4)	12.330	53	287341	141.089
117) 1,2,3-Trichloropropane	(4)	12.353	110	52618	21.165
119) n-Propylbenzene	(4)	12.388	91	710828	21.191
120) 2-Chlorotoluene	(4)	12.465	126	138298	20.953
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	509971	21.248
121) 4-Chlorotoluene	(4)	12.558	126	144251	20.982
124) tert-Butylbenzene	(4)	12.764	134	102954M	20.836
125) Pentachloroethane	(4)	12.800	167	87675	21.985
126) 1,2,4-Trimethylbenzene	(4)	12.809	105	519899	21.333
127) sec-Butylbenzene	(4)	12.928	105	654065	21.202
129) 1,3-Dichlorobenzene	(4)	13.031	146	284480	21.181
130) p-Isopropyltoluene	(4)	13.034	119	559618	21.066
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	474769	50.000
133) 1,4-Dichlorobenzene	(4)	13.105	146	297508	21.444
134) 1,2,3-Trimethylbenzene	(4)	13.111	105	532140	21.144
135) Benzyl Chloride	(4)	13.179	91	468456	29.126
136) 1,3-Diethylbenzene	(4)	13.234	119	329077	19.745
137) 1,4-Diethylbenzene	(4)	13.308	119	348516	20.612
139) n-Butylbenzene	(4)	13.327	92	287210	20.753
138) 1,2-Dichlorobenzene	(4)	13.362	146	285515	21.050
140) 1,2-Diethylbenzene	(4)	13.378	119	280590	20.970
145) Hexachloroethane	(4)	13.568	201	71363M	20.961
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	35833	20.672
144) 1,3,5-Trichlorobenzene	(4)	14.031	180	228449	20.413
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	218383	20.223

M = Compound was manually integrated.
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on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
147) Hexachlorobutadiene	(4)	14.529	225	99345	20.115
148) Naphthalene	(4)	14.635	128	625787	20.197
149) 1,2,3-Trichlorobenzene	(4)	14.774	180	204313	19.774
150) 2-Methylnaphthalene	(4)	15.404	142	342055	17.997

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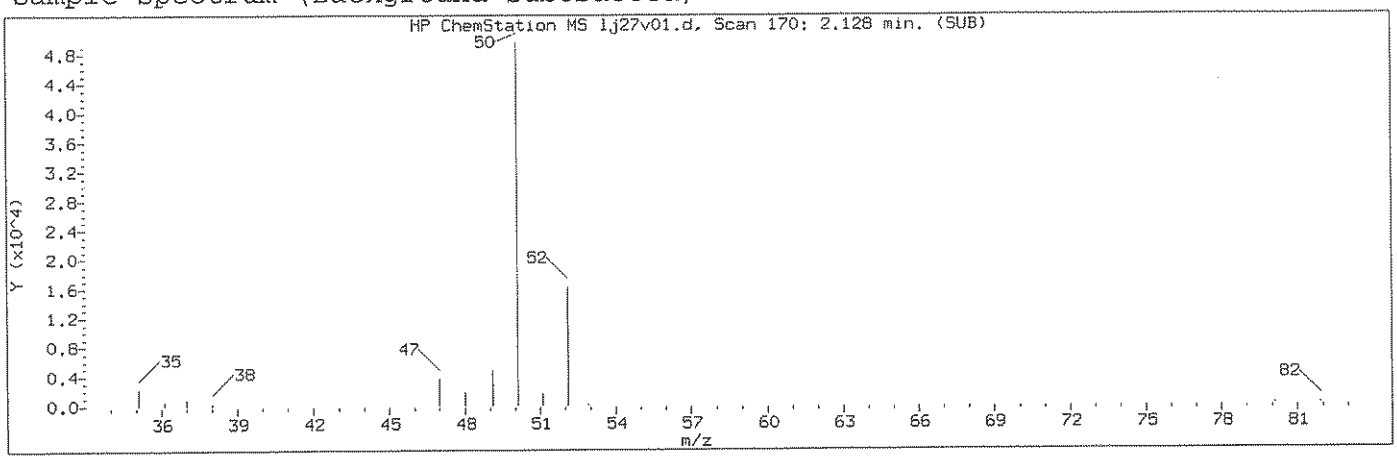
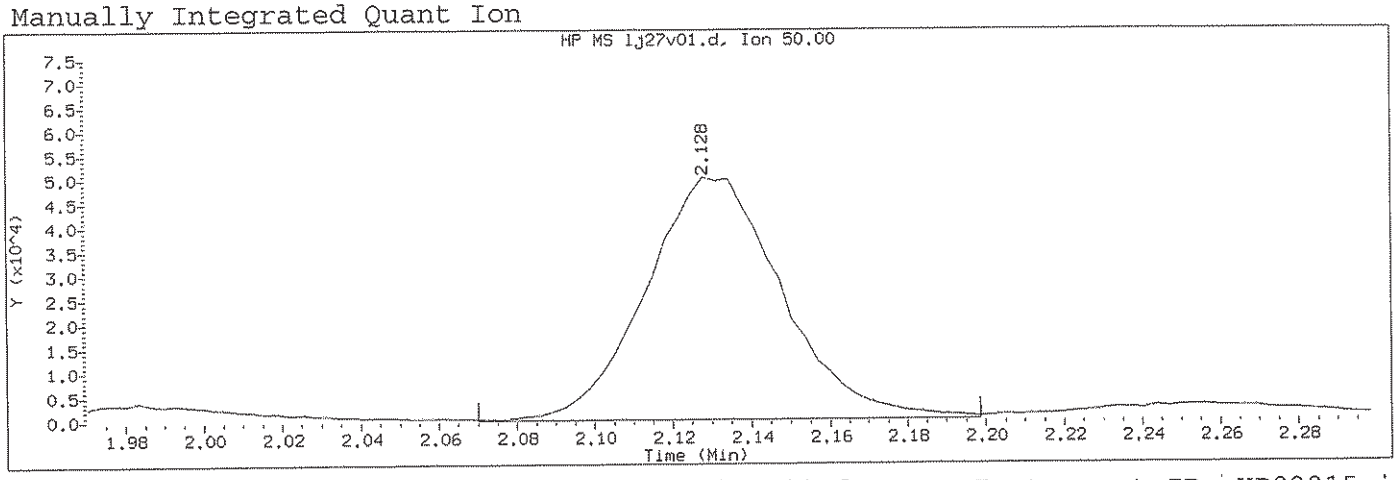
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

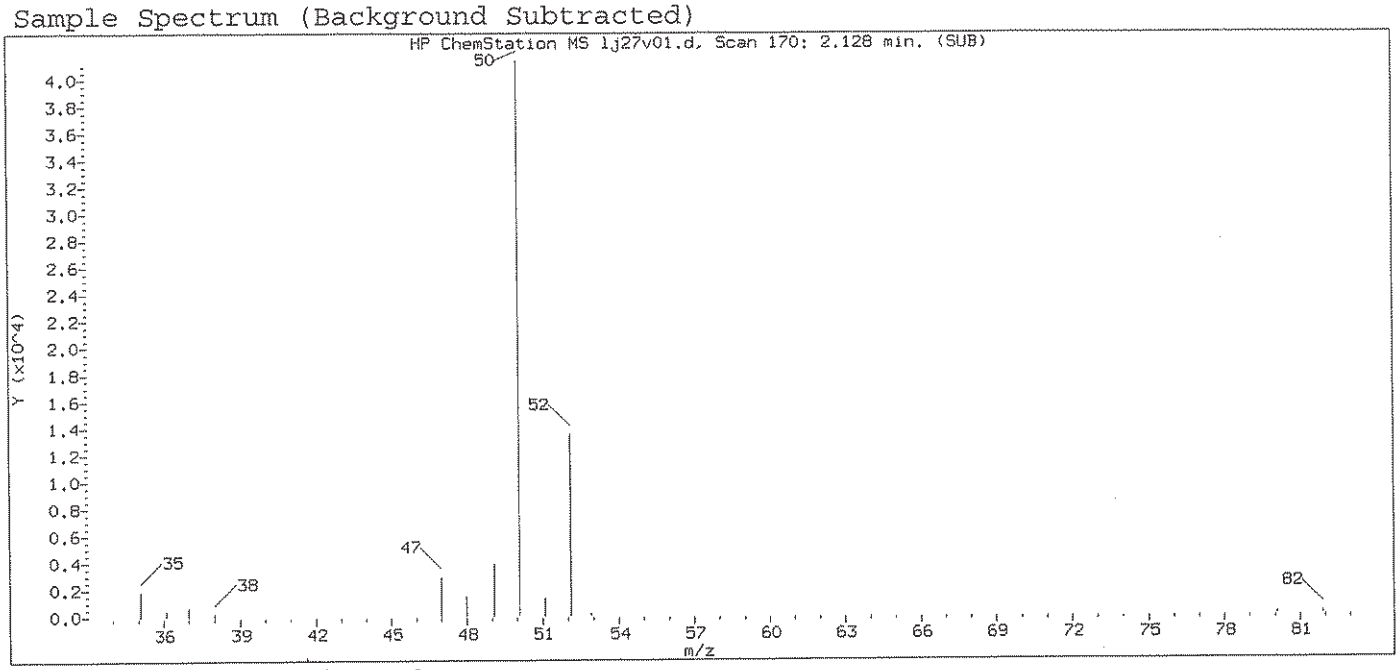
Compound Number	: 4		
Compound Name	: Chloromethane		
Scan Number	: 170		
Retention Time (minutes)	: 2.128		
Quant Ion	: 50.00		
Area (flag)	: 121080M		
On-Column Amount (ng)	: 17.1004		
Integration start scan	: 151	Integration stop scan:	191
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

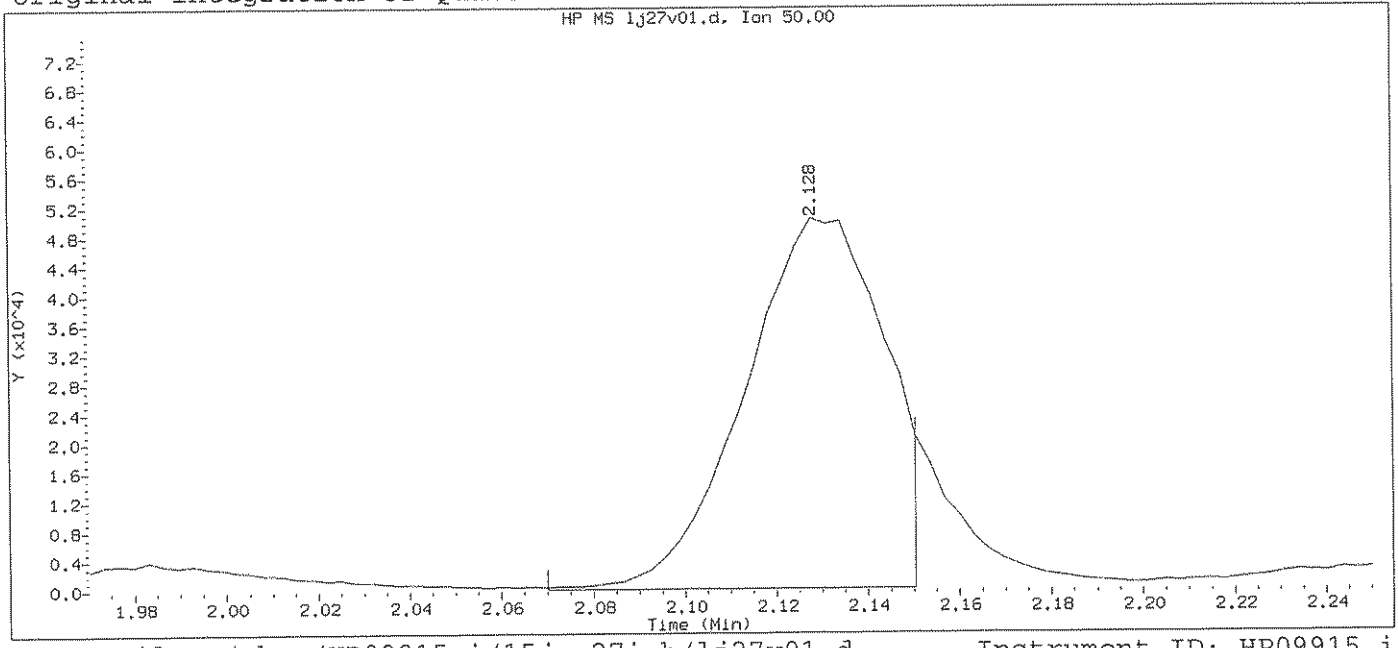
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: LGLICV Lab Sample ID: LGLICV

Compound Number	: 4		
Compound Name	: Chloromethane		
Scan Number	: 170		
Retention Time (minutes)	: 2.128		
Quant Ion	: 50.00		
Area	: 105715		
On-column Amount (ng)	: 14.9304		
Integration start scan	: 151	Integration stop scan:	176
Y at integration start	: 0	Y at integration end:	0

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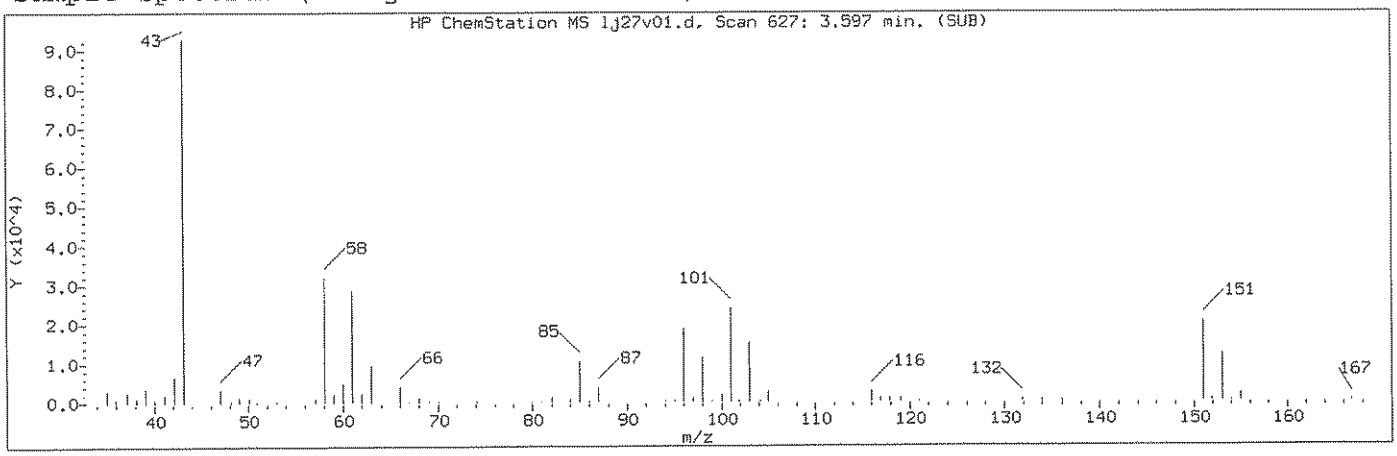
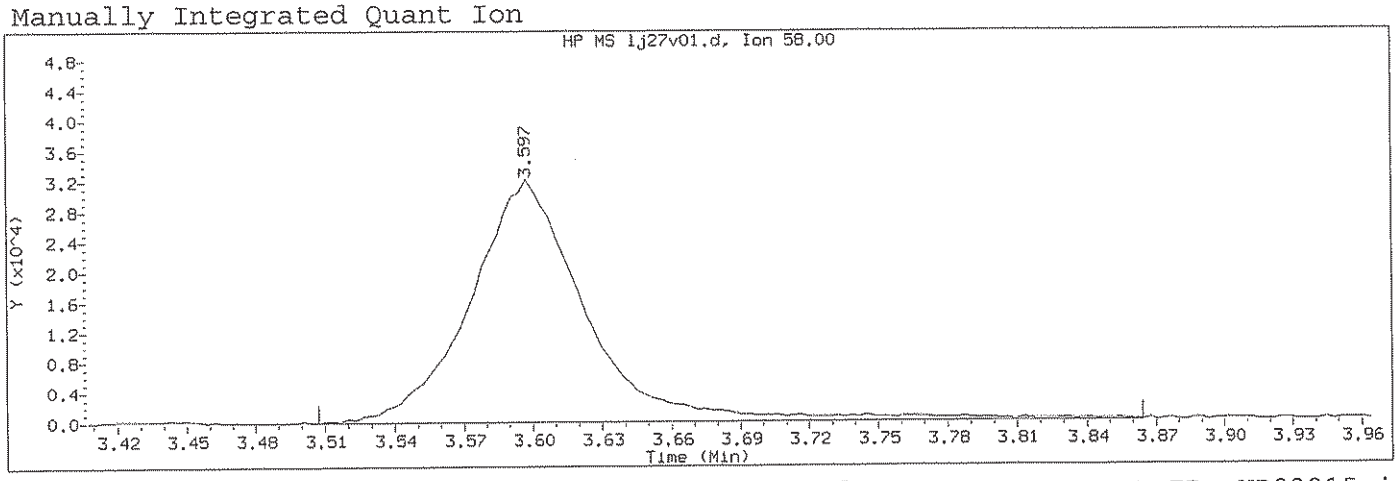
Target 3.5 esignature used. Page 03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

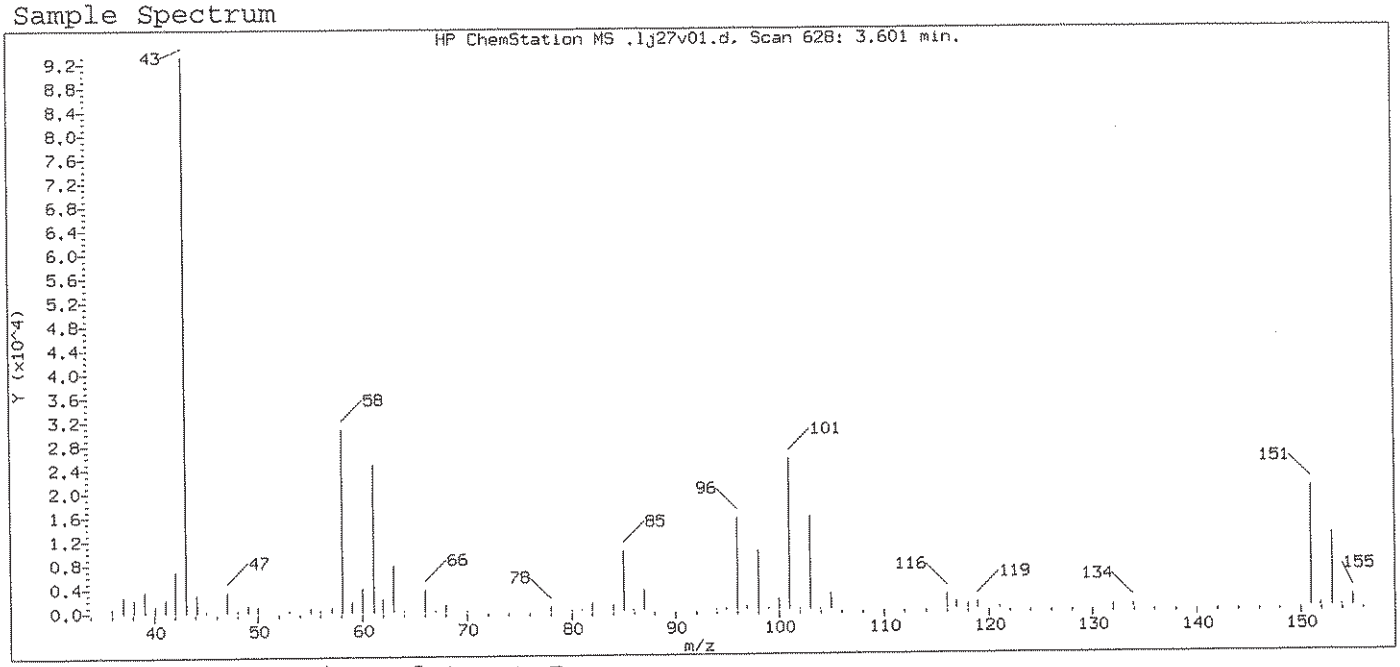
Compound Number	: 18		
Compound Name	: Acetone		
Scan Number	: 627		
Retention Time (minutes)	: 3.597		
Quant Ion	: 58.00		
Area (flag)	: 112946M		
On-Column Amount (ng)	: 174.3888		
Integration start scan	: 598	Integration stop scan:	709
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

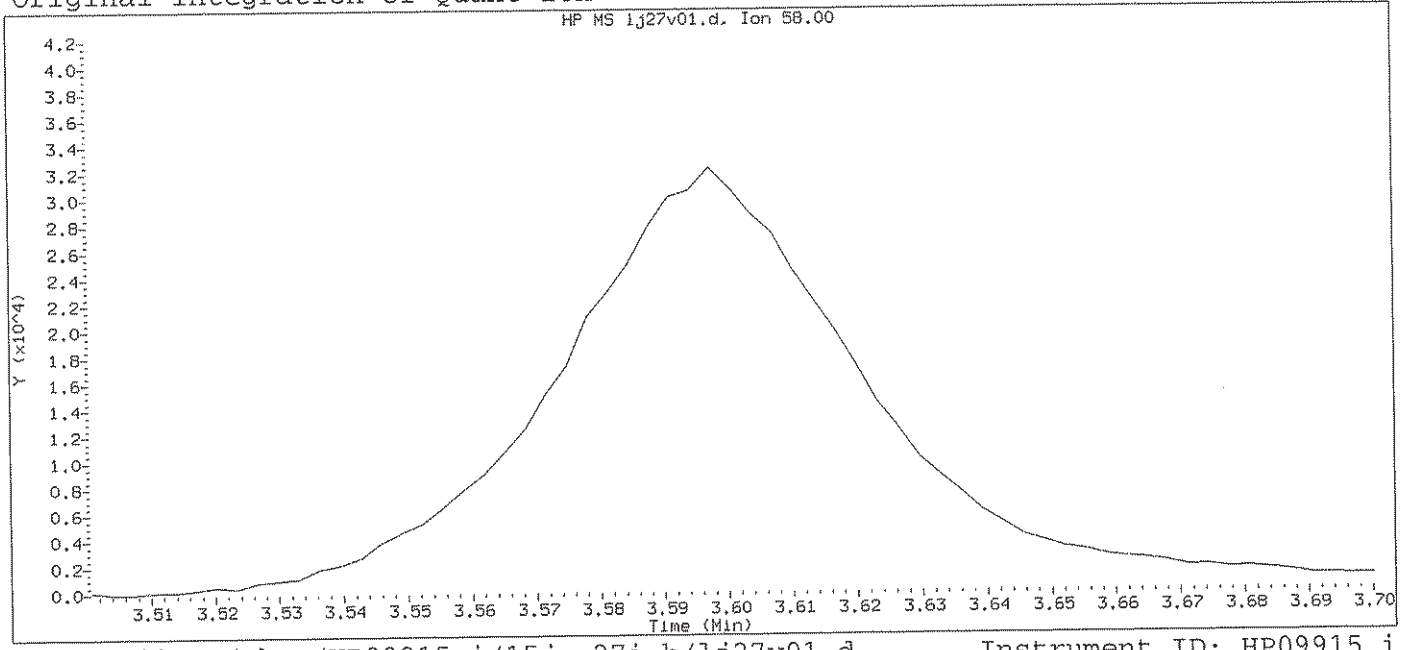
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d
Injection date and time: 27-JAN-2015 18:23

Instrument ID: HP09915.i
Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sublist used: 8260W-BN

Sample Name: LGLICV

Lab Sample ID: LGLICV

Compound Number : 18
Compound Name : Acetone
Expected RT (minutes) : 3.600
Quant Ion : 58.00

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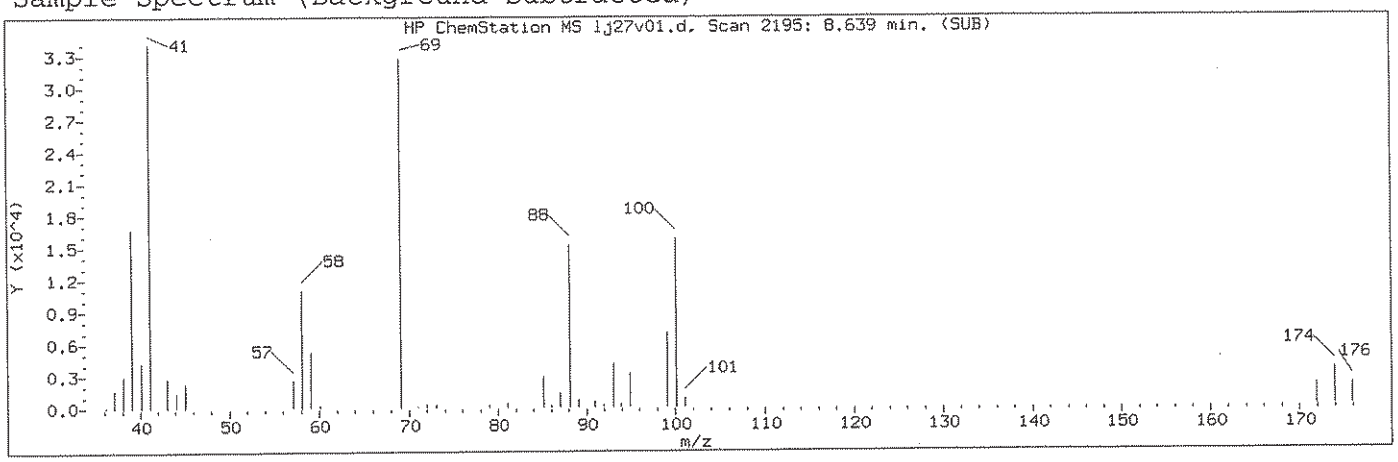
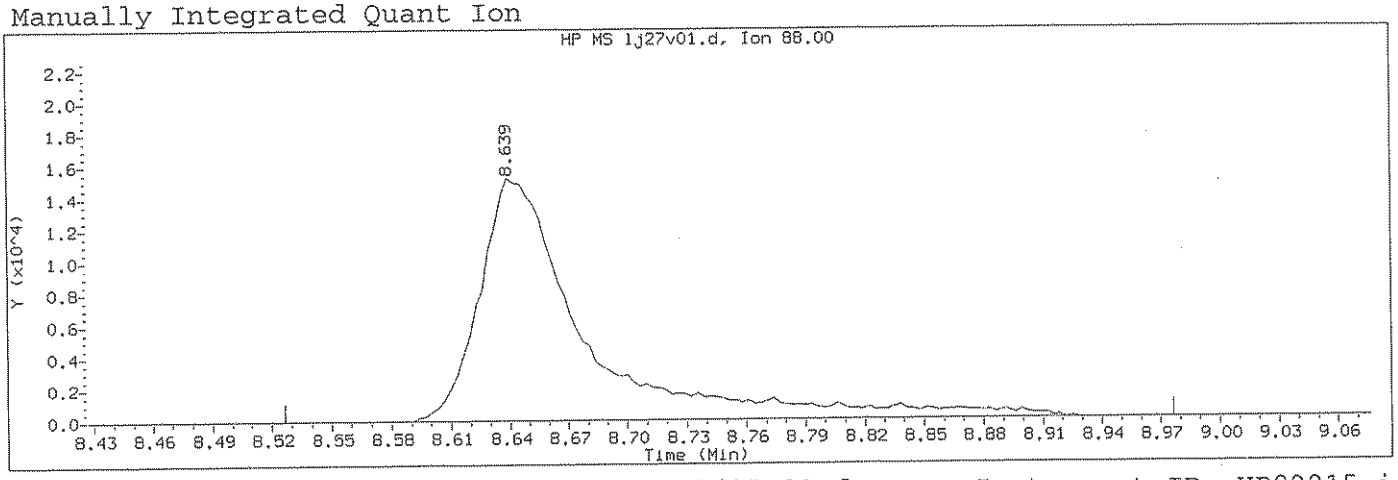
Target 3.5 esignature user ID: sag03174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

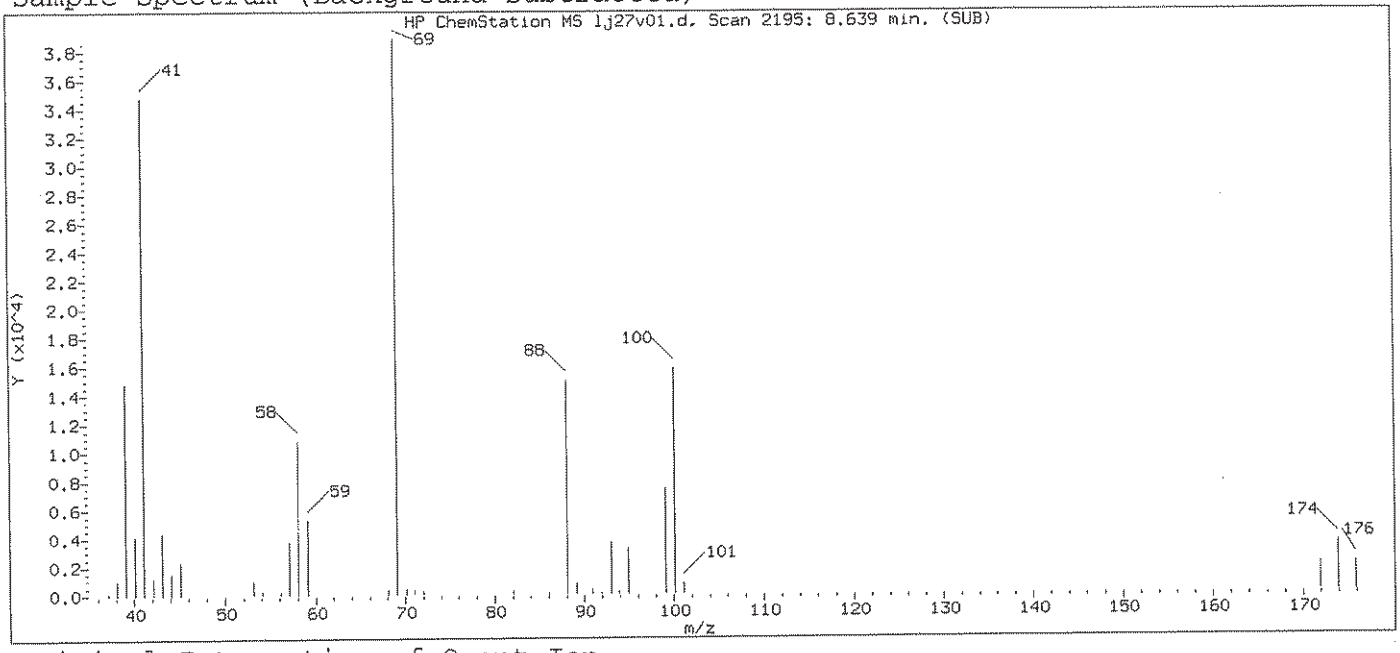
Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2195		
Retention Time (minutes)	: 8.639		
Quant Ion	: 88.00		
Area (flag)	: 57501M		
On-Column Amount (ng)	: 628.7875		
Integration start scan	: 2159	Integration stop scan:	2299
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

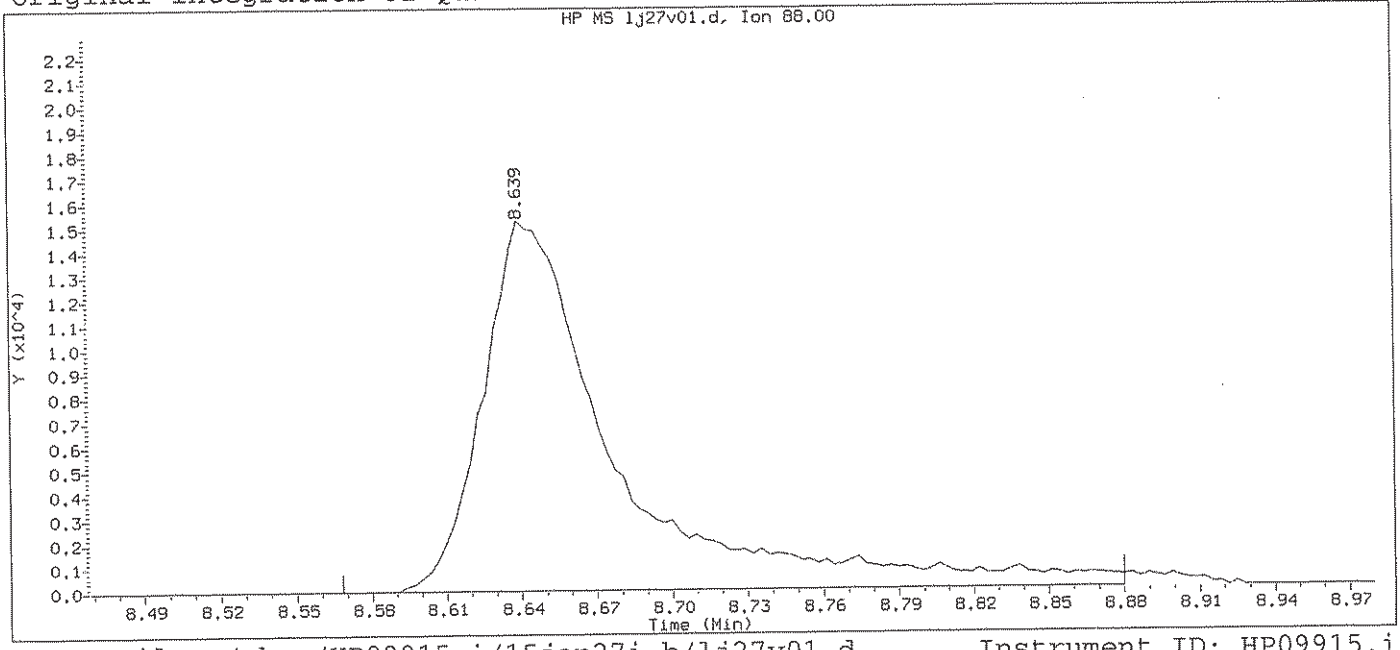
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: ~ 2/12/15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: LGLICV Lab Sample ID: LGLICV

Compound Number	: 75		
Compound Name	: 1,4-Dioxane		
Scan Number	: 2195		
Retention Time (minutes)	: 8.639		
Quant Ion	: 88.00		
Area	: 56542		
On-column Amount (ng)	: 618.3016		
Integration start scan	: 2172	Integration stop scan:	2269
Y at integration start	: 0	Y at integration end:	0

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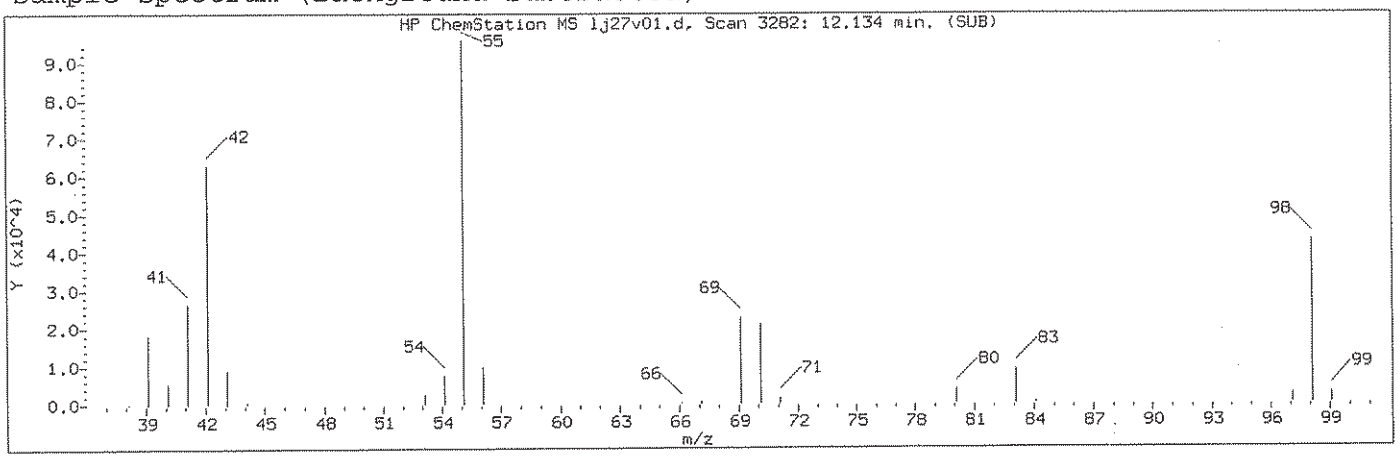
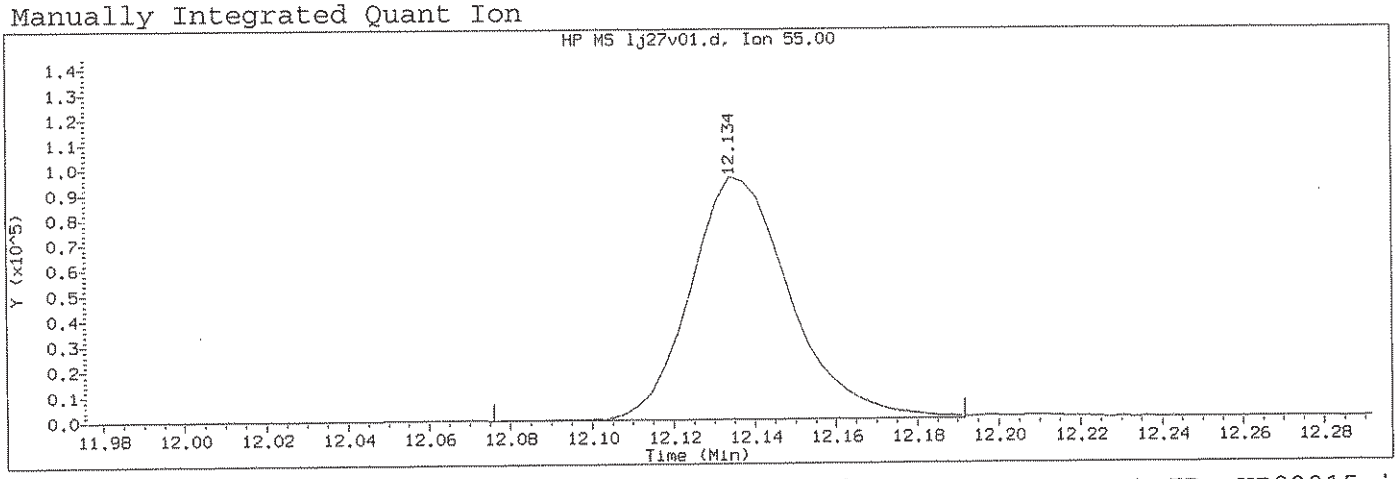
Target 3.5 esignature used: Page0174

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

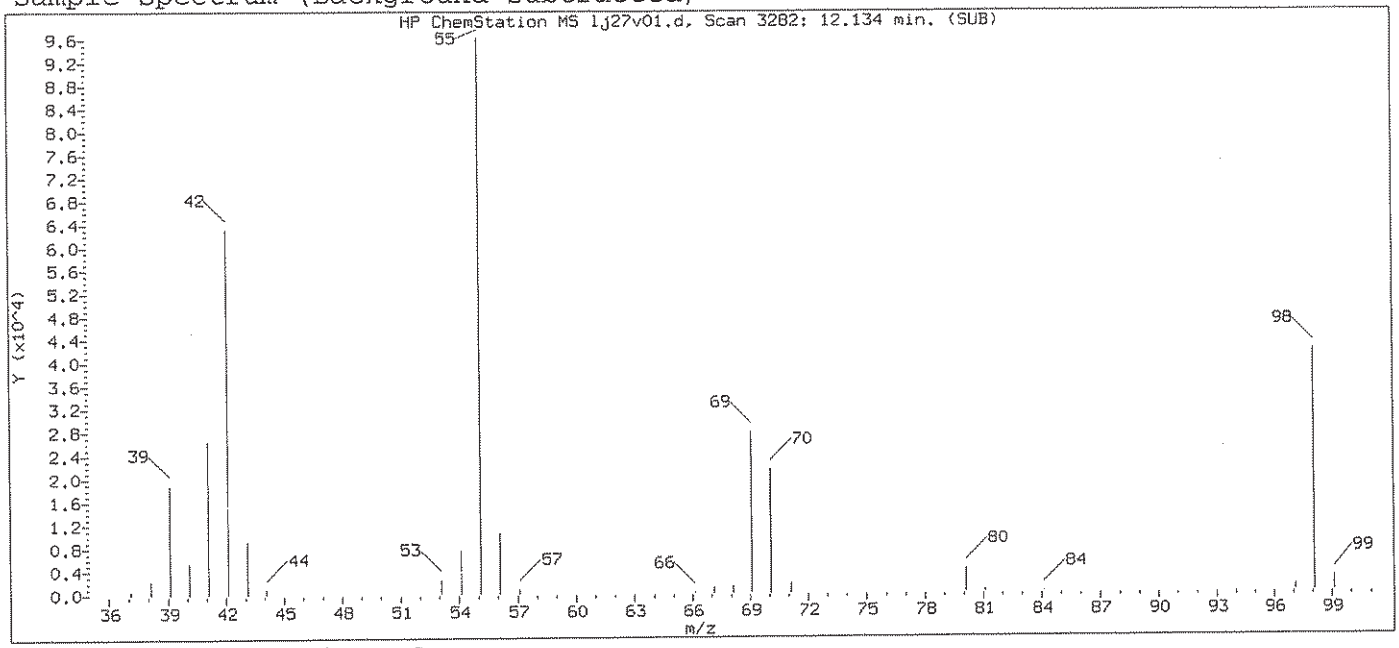
Compound Number	: 112		
Compound Name	: Cyclohexanone		
Scan Number	: 3282		
Retention Time (minutes)	: 12.134		
Quant Ion	: 55.00		
Area (flag)	: 164206M		
On-Column Amount (ng)	: 484.4923		
Integration start scan	: 3263	Integration stop scan:	3299
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

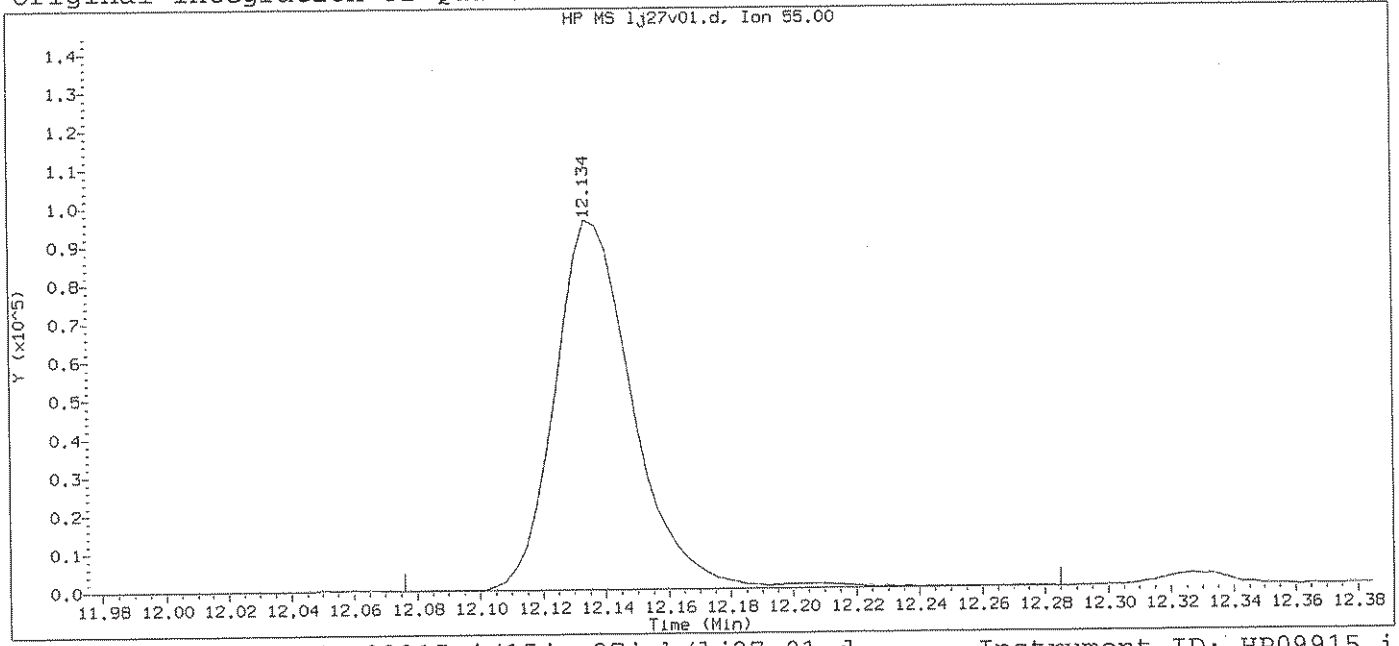
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

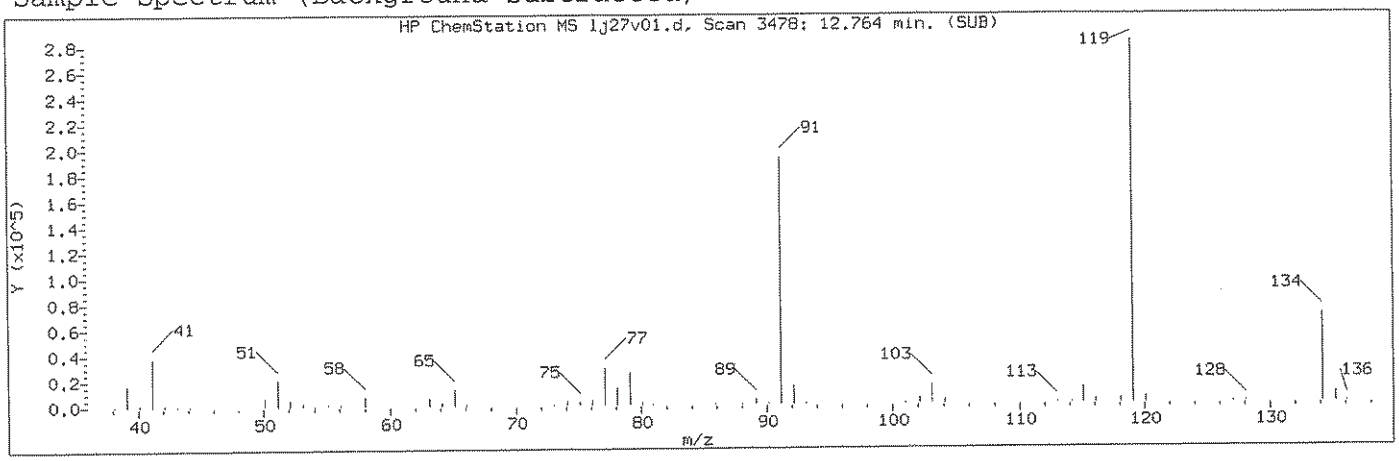
Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: LGLICV Lab Sample ID: LGLICV

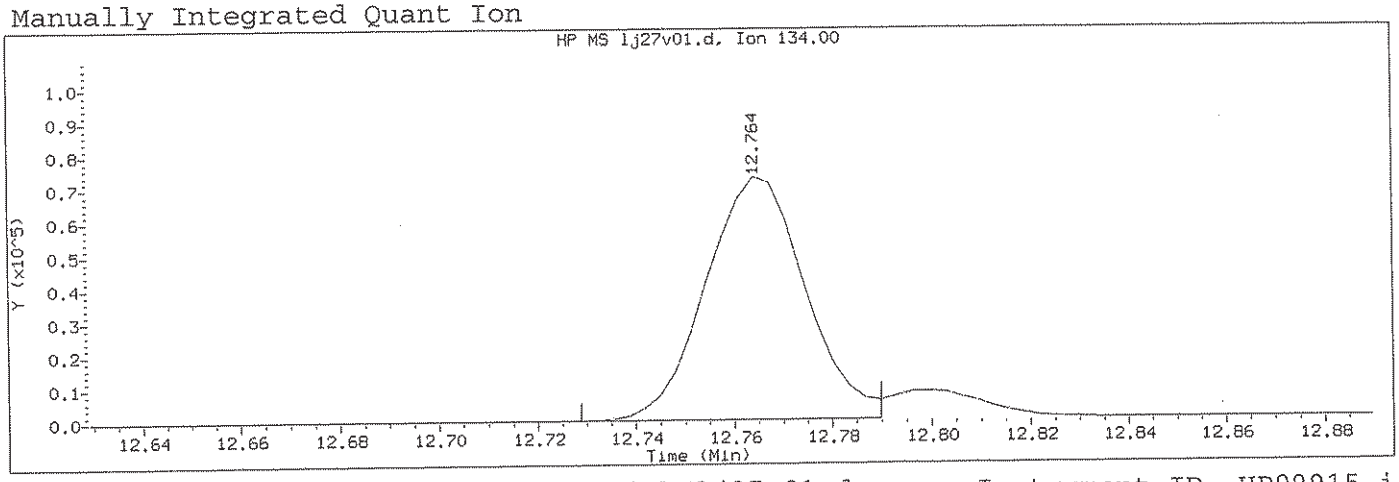
Compound Number	: 112		
Compound Name	: Cyclohexanone		
Scan Number	: 3282		
Retention Time (minutes)	: 12.134		
Quant Ion	: 55.00		
Area	: 166855		
On-column Amount (ng)	: 492.3093		
Integration start scan	: 3263	Integration stop scan:	3328
Y at integration start	: 0	Y at integration end:	0

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature used: 20150211090354

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

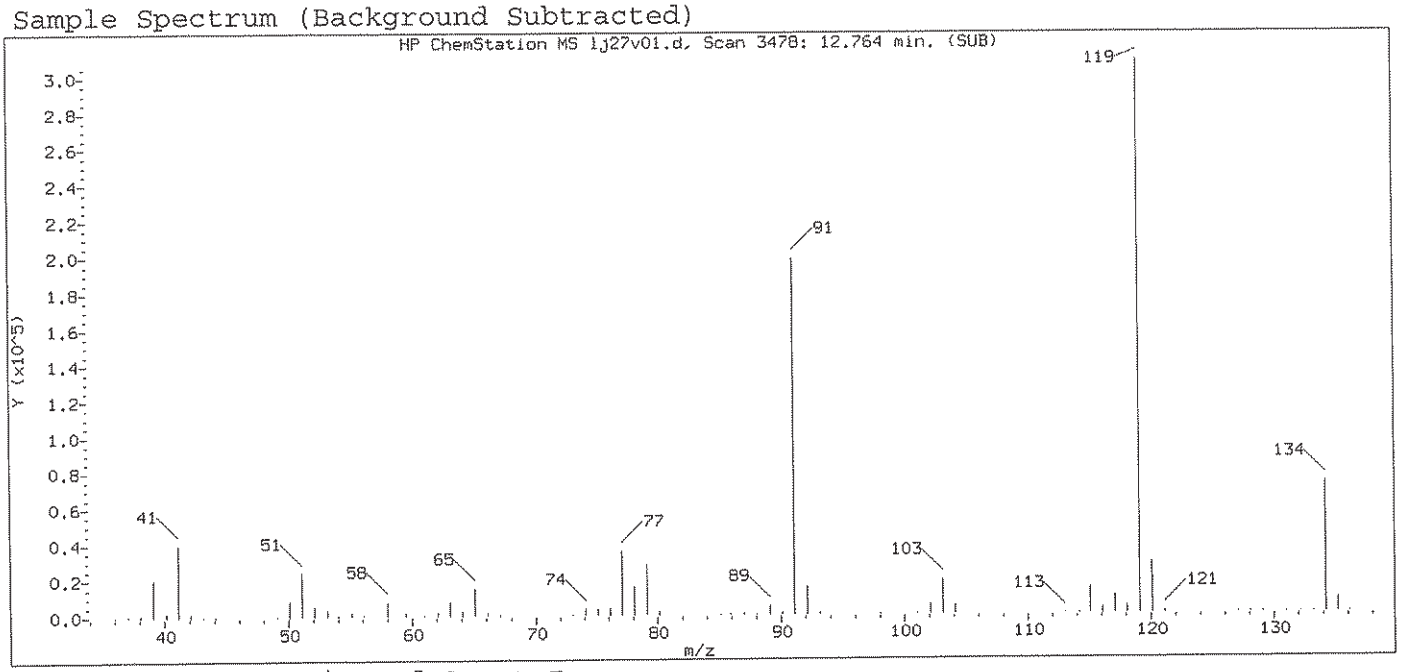
Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3478		
Retention Time (minutes)	: 12.764		
Quant Ion	: 134.00		
Area (flag)	: 102954M		
On-Column Amount (ng)	: 20.8361		
Integration start scan	: 3466	Integration stop scan:	3485
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

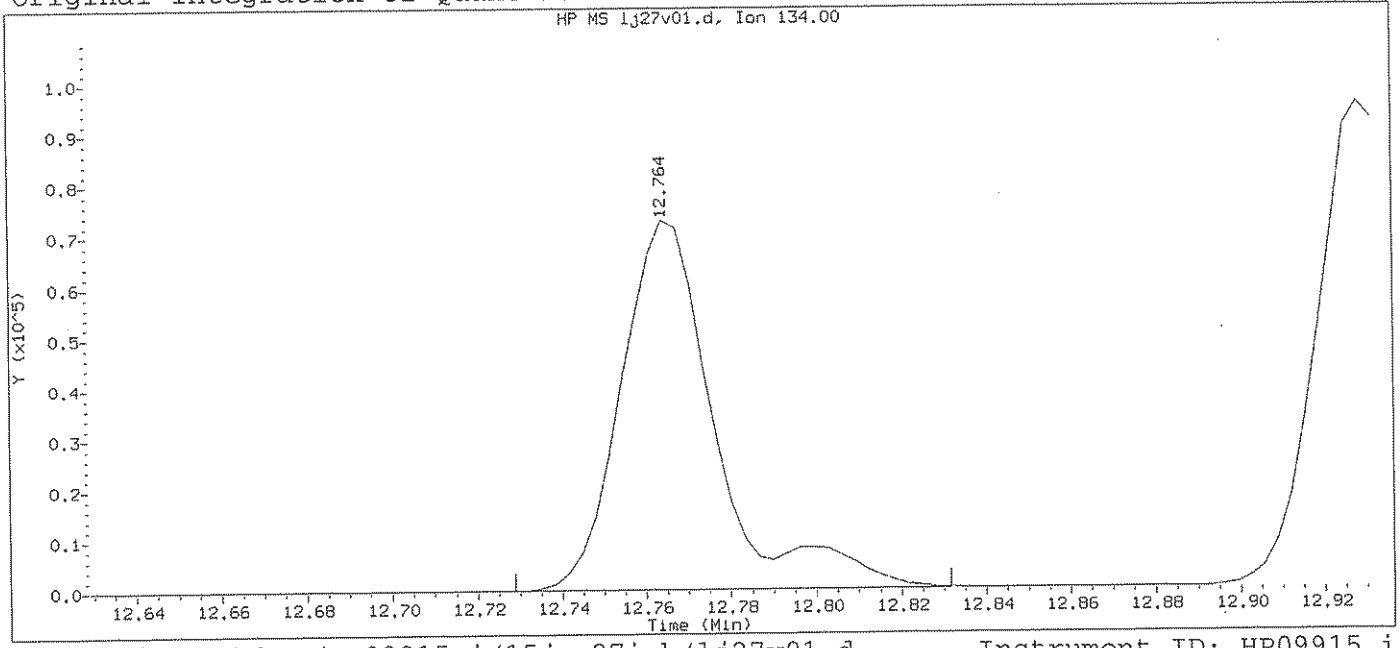
Analyst responsible for change: Digitally signed by Sarah A. Guill
on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: LGLICV Lab Sample ID: LGLICV

Compound Number	: 124		
Compound Name	: tert-Butylbenzene		
Scan Number	: 3478		
Retention Time (minutes)	: 12.764		
Quant Ion	: 134.00		
Area	: 113190		
On-column Amount (ng)	: 22.9077		
Integration start scan	: 3466	Integration stop scan:	3498
Y at integration start	: 0	Y at integration end:	0

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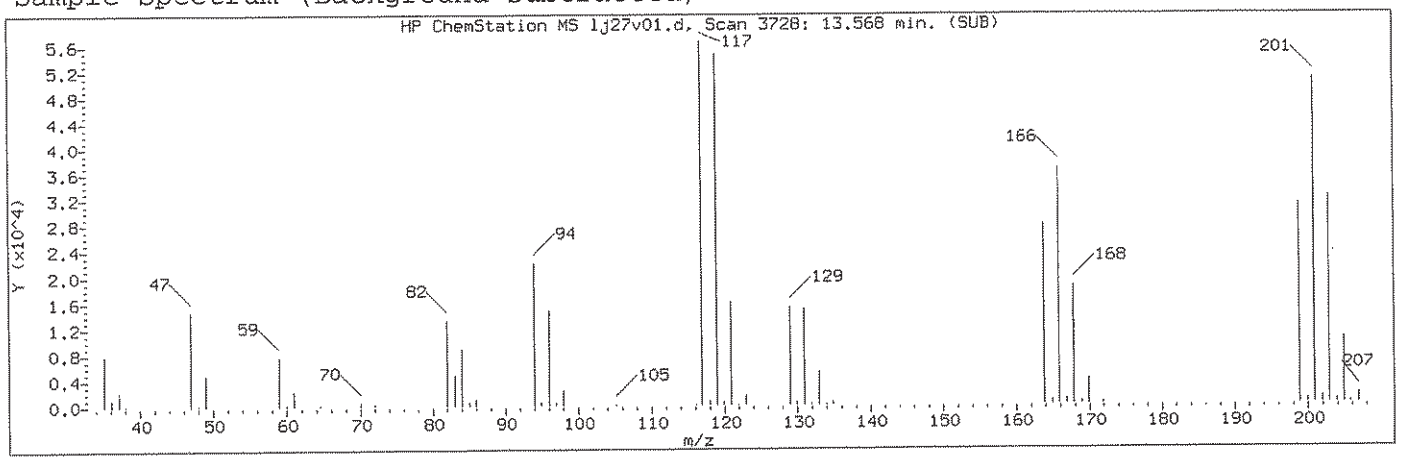
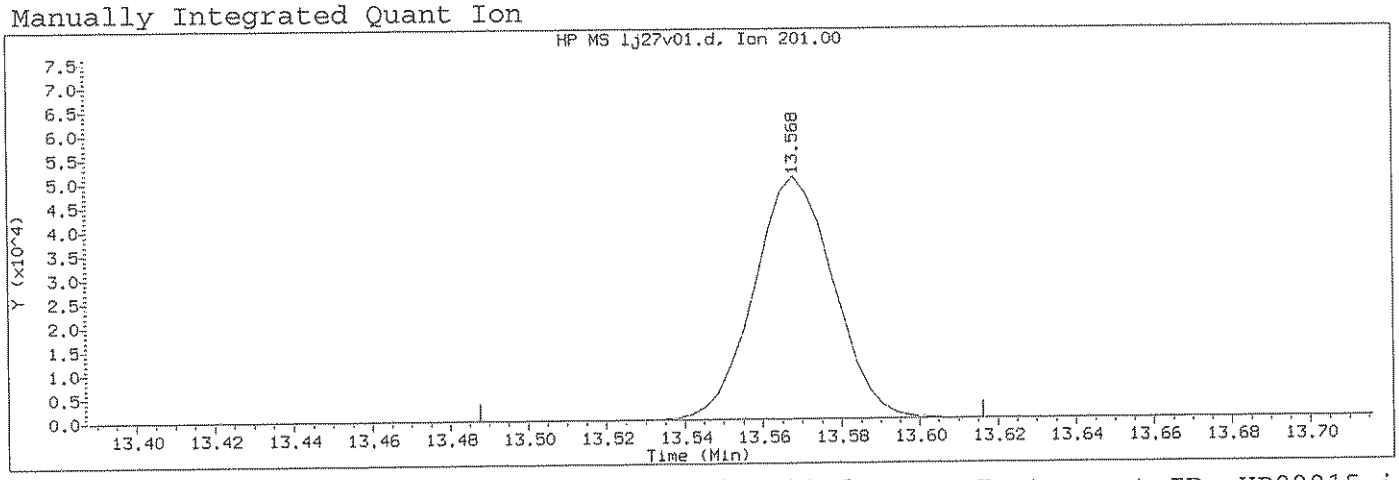
Target 3.5 esignature used. Page 03154

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/1j27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-FEB-2015 08:29
Date, time and analyst ID of latest file update: 11-Feb-2015 09:03 sag03174

Sample Name: LGLICV Lab Sample ID: LGLICV

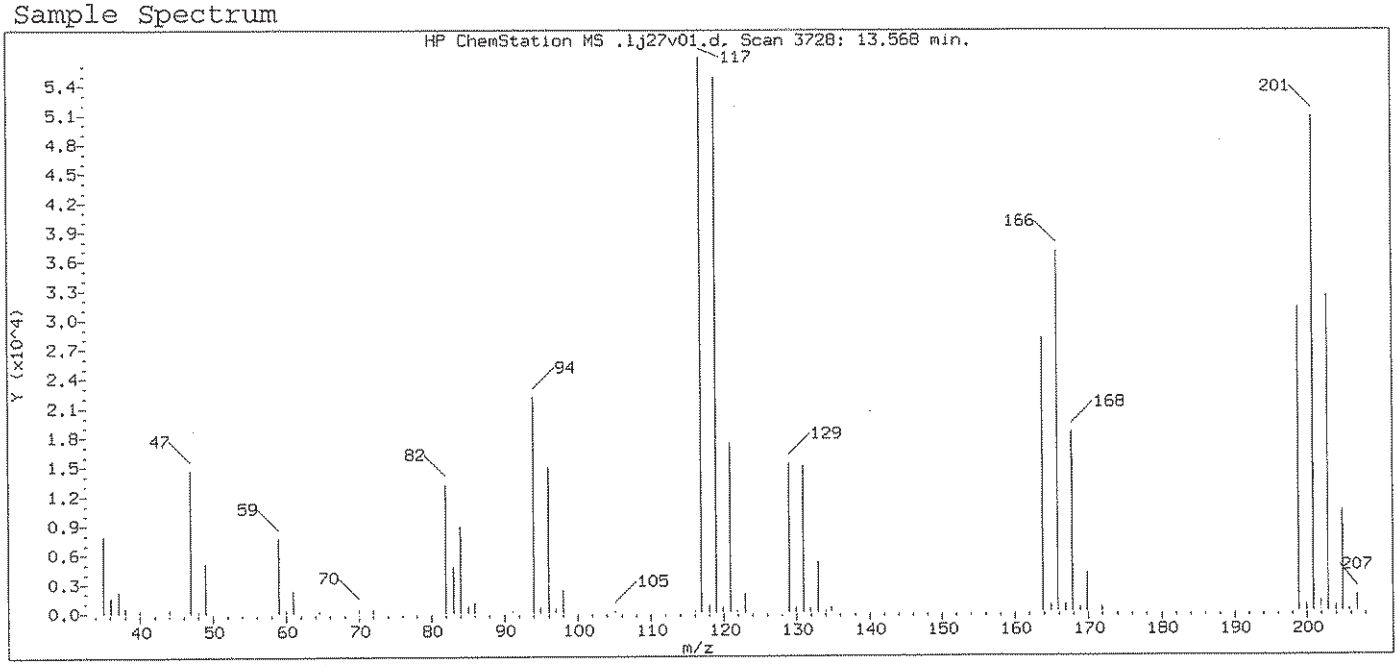
Compound Number	: 145		
Compound Name	: Hexachloroethane		
Scan Number	: 3728		
Retention Time (minutes)	: 13.568		
Quant Ion	: 201.00		
Area (flag)	: 71363M		
On-Column Amount (ng)	: 20.9615		
Integration start scan	: 3702	Integration stop scan:	3742
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: missed peak

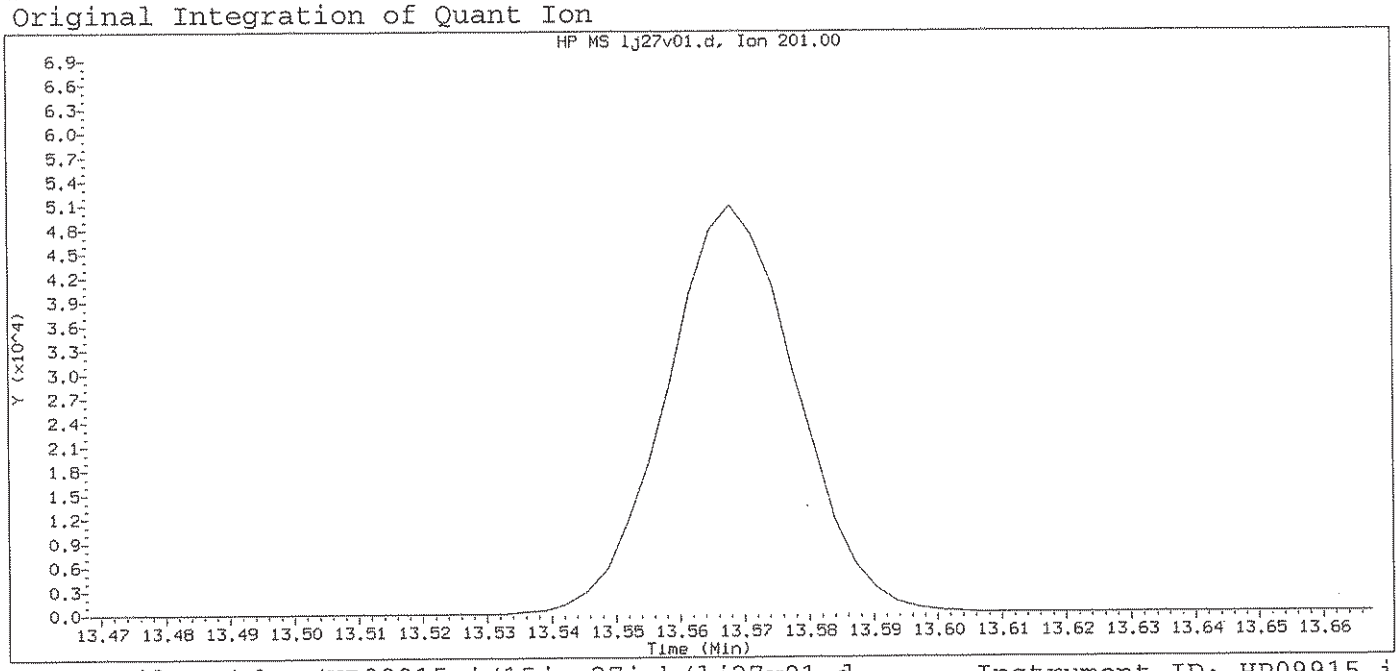
Analyst responsible for change: Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04. Target 3.5 esignature user ID: sag03174

GC/MS audit/management approval: _____

Sample Spectrum



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15jan27i.b/lj27v01.d Instrument ID: HP09915.i
Injection date and time: 27-JAN-2015 18:23 Analyst ID: KEL01973

Method used: /chem/HP09915.i/15jan27i.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 03-FEB-2015 18:29
Date, time and analyst ID of latest file update: 03-Feb-2015 18:29 akr02850

Sample Name: LGLICV Lab Sample ID: LGLICV

Compound Number : 145
Compound Name : Hexachloroethane
Expected RT (minutes) : 13.568
Quant Ion : 201.00

Digitally signed by Sarah A. Guill on 02/11/2015 at 09:04.
Target 3.5 esignature user ID: sag03174

Data File: /chem/HP09915.i/15mar11b.b/lm11t05.d

Date : 11-MAR-2015 13:39

Client ID: BFB MAR06-15

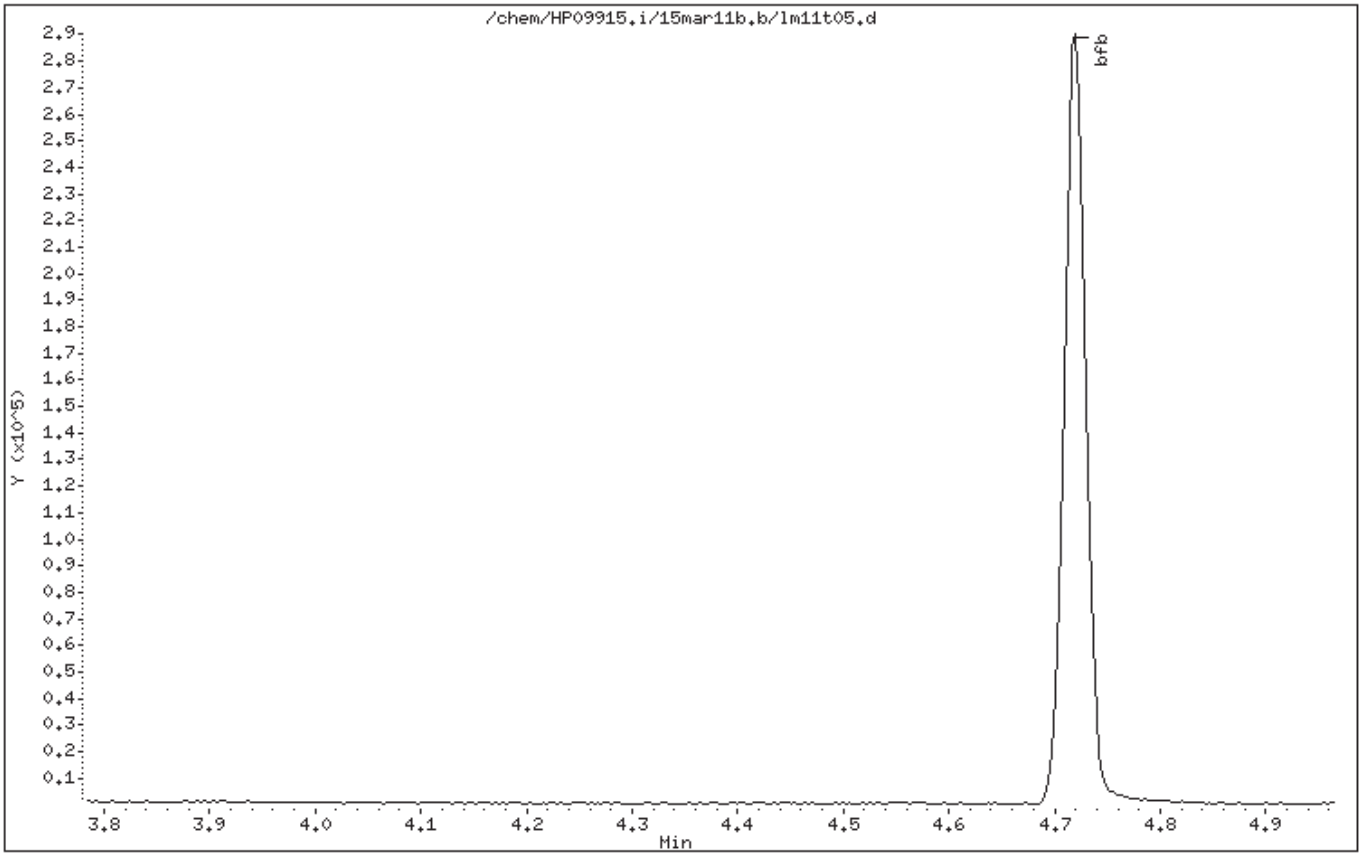
Instrument: HP09915.i

Sample Info: BFB MAR06-15;50NGBFB;1;3;;;;;;

Operator: ADS01731

Column phase: Rxi-624Sil MS

Column diameter: 0.25



Digitally signed by Angela D. Sneeringer on 03/11/2015 at 13:46.
Target 3.5 esignature user ID: ads01731

Data File: /chem/HP09915.i/15mar11b.b/lm11t05.d

Date : 11-MAR-2015 13:39

Client ID: BFB MAR06-15

Instrument: HP09915.i

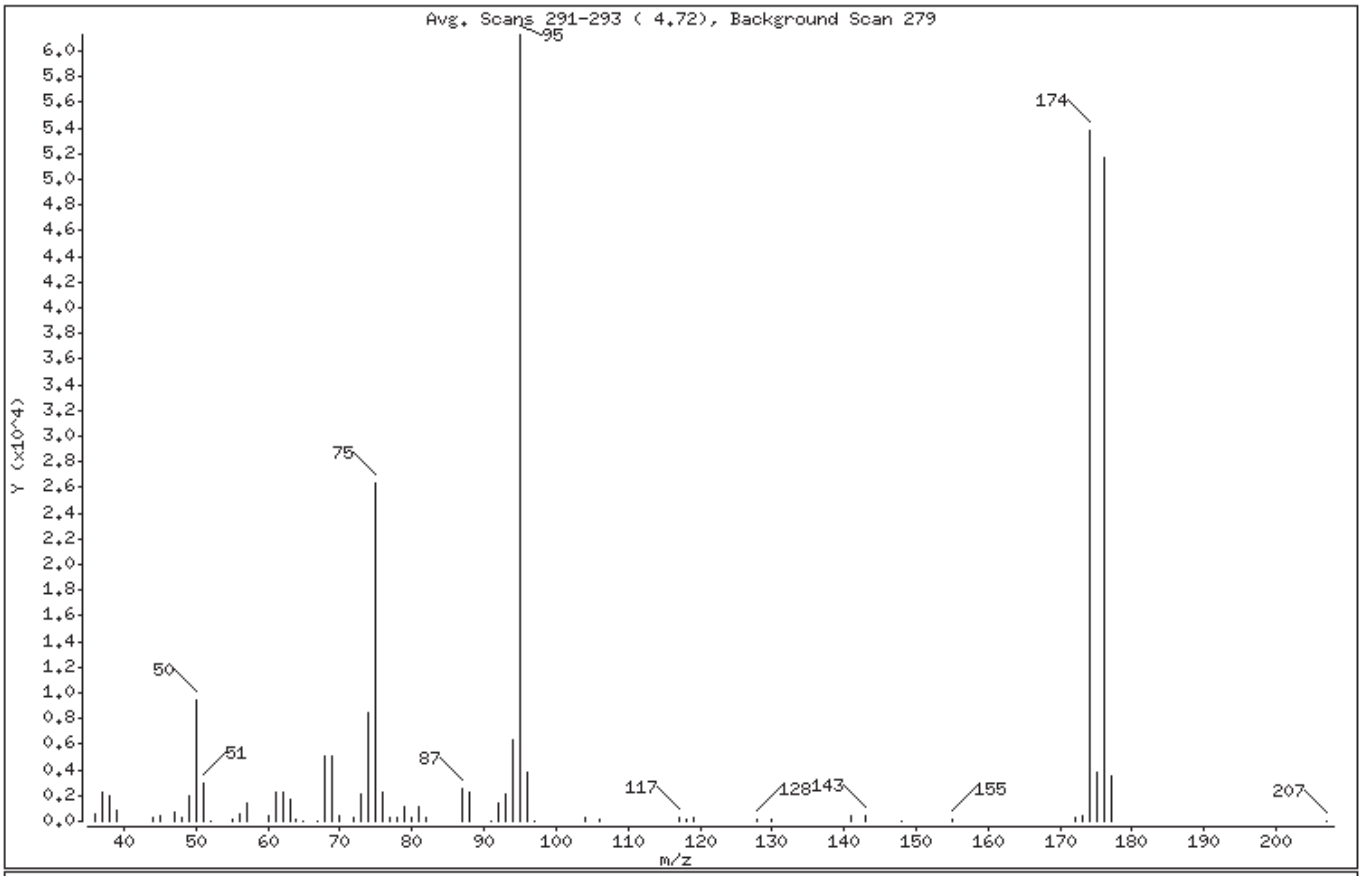
Sample Info: BFB MAR06-15;50NGBFB;1;3;;;;;;

Operator: ADS01731

Column phase: Rxi-624Sil MS

Column diameter: 0.25

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	15.34
75	30.00 - 60.00% of mass 95	43.05
96	5.00 - 9.00% of mass 95	6.26
173	Less than 2.00% of mass 174	0.61 (0.69)
174	50.00 - 100.00% of mass 95	87.80
175	5.00 - 9.00% of mass 174	6.10 (6.94)
176	95.00 - 101.00% of mass 174	84.39 (96.12)
177	5.00 - 9.00% of mass 176	5.65 (6.69)

Digitally signed by Angela D. Sneeringer on 03/11/2015 at 13:46.
Target 3.5 esignature user ID: ads01731

Data File: /chem/HP09915.i/15mar11b.b/lm11t05.d

Date : 11-MAR-2015 13:39

Client ID: BFB MAR06-15

Instrument: HP09915.i

Sample Info: BFB MAR06-15;50NGBFB;1;3;;;;;;

Operator: ADS01731

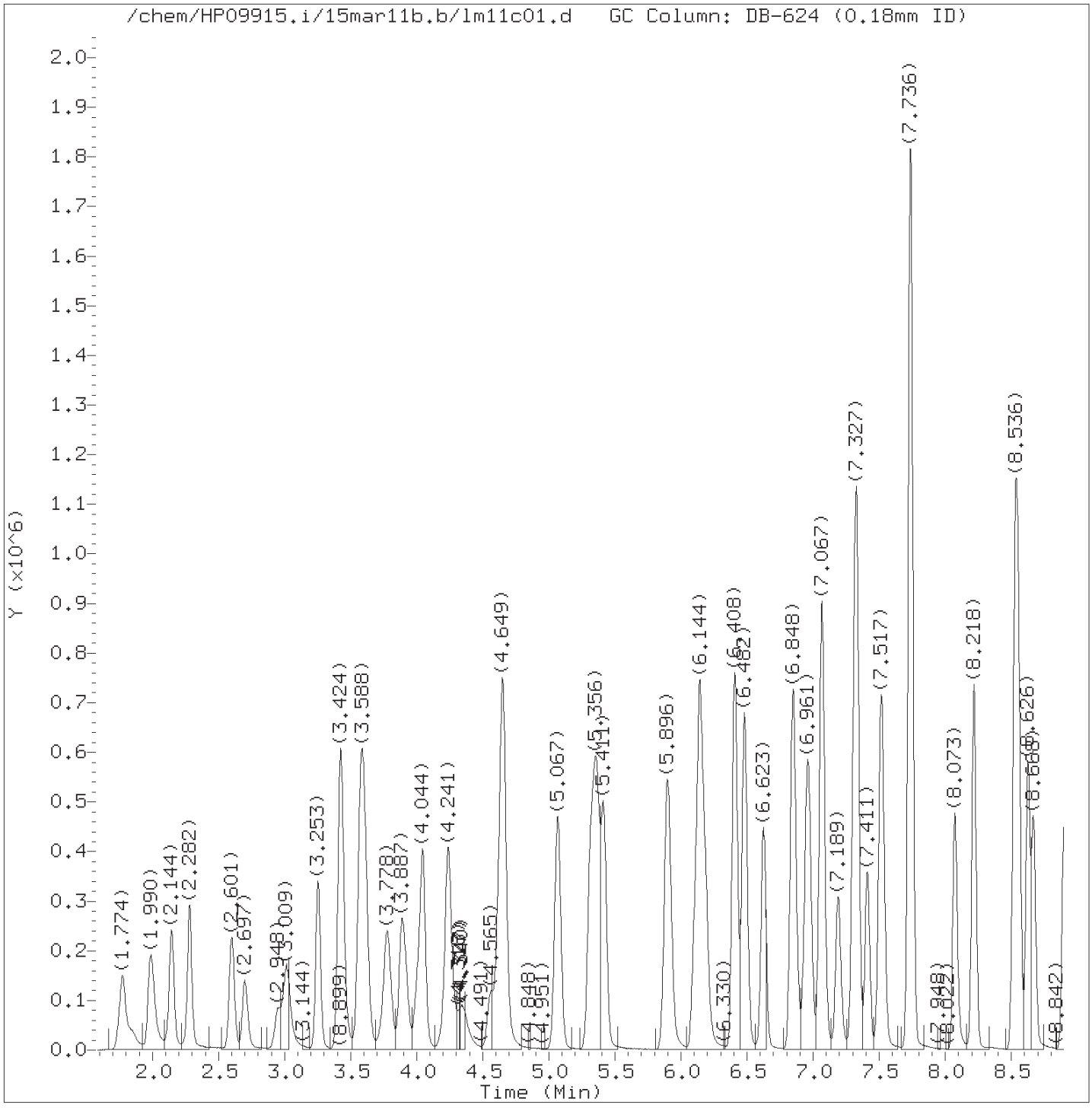
Column phase: Rxi-624Sil MS

Column diameter: 0.25

Data File: lm11t05.d
Spectrum: Avg. Scans 291-293 (4.72), Background Scan 279
Location of Maximum: 95.00
Number of points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	508	61.00	2259	79.00	1130	118.00	158
37.00	2280	62.00	2318	80.00	280	119.00	234
38.00	2003	63.00	1655	81.00	1186	128.00	135
39.00	828	64.00	157	82.00	242	130.00	129
44.00	219	65.00	54	87.00	2498	141.00	416
45.00	396	67.00	65	88.00	2282	143.00	424
47.00	690	68.00	5045	91.00	54	148.00	53
48.00	330	69.00	5099	92.00	1411	155.00	134
49.00	2003	70.00	393	93.00	2092	172.00	229
50.00	9398	72.00	303	94.00	6314	173.00	372
51.00	2916	73.00	2116	95.00	61256	174.00	53784
52.00	53	74.00	8387	96.00	3833	175.00	3735
55.00	190	75.00	26368	97.00	51	176.00	51696
56.00	599	76.00	2292	104.00	244	177.00	3460
57.00	1367	77.00	308	106.00	142	207.00	67
60.00	460	78.00	270	117.00	346		

Digitally signed by Angela D. Sneeringer on 03/11/2015 at 13:46.
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

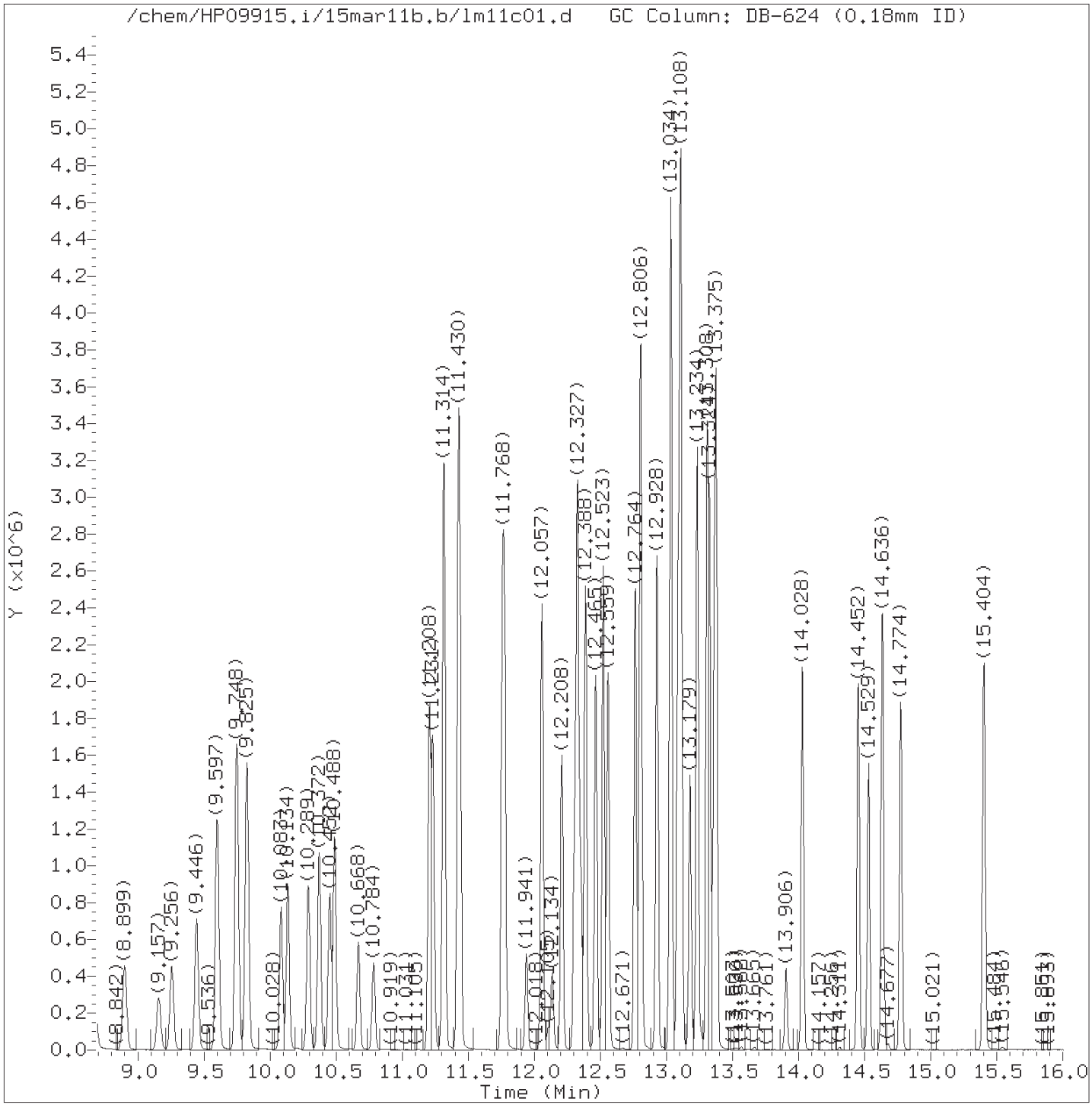
Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11c01.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:02 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-MAR-2015 14:22
Date, time and analyst ID of latest file update: 11-Mar-2015 14:27 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Digitally signed by Angela D. Sneeringer
on 03/11/2015 at 14:27.
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11c01.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:02 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-MAR-2015 14:22
Date, time and analyst ID of latest file update: 11-Mar-2015 14:27 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Digitally signed by Angela D. Sneeringer
on 03/11/2015 at 14:27.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11c01.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:02 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-MAR-2015 14:22
Date, time and analyst ID of latest file update: 11-Mar-2015 14:27 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.983	85	422041	54.411
4) Chloromethane	(2)	2.144	50	384529	46.750
6) Vinyl Chloride	(2)	2.282	62	355935	46.684
8) Bromomethane	(2)	2.601	94	235237	51.711
9) Chloroethane	(2)	2.697	64	197992	48.053
43) 1,2-Dichloroethene (Total)	(2)		96	608217	92.079
12) Trichlorofluoromethane	(2)	3.015	101	429137	51.970
14) Ethyl ether	(2)	3.253	59	288893	47.372
16) Acrolein	(1)	3.424	56	969597	534.953
17) 1,1-Dichloroethene	(2)	3.572	96	251672	45.500
17) 1,1-Dichloroethene	(2)	3.569	63	120002	42.713
18) Acetone	(1)	3.585	58	81809	112.018
19) Freon 113	(2)	3.604	101	265216	47.356
21) 2-Propanol	(1)	3.742	45	145632	234.309
22) Methyl Iodide	(2)	3.778	142	482433	48.264
23) Carbon Disulfide	(2)	3.887	76	824031	44.679
27) Methyl Acetate	(2)	4.006	43	282790	44.409
25) Allyl Chloride	(2)	4.048	41	406850	42.817
29)*t-Butyl alcohol-d10	(1)	4.218	65	240236	250.000
28) Methylene Chloride	(2)	4.241	84	301160	44.488
30) t-Butyl alcohol	(1)	4.350	59	235312	230.271
31) Acrylonitrile	(2)	4.556	53	167850	51.660
33) Methyl Tertiary Butyl Ether	(2)	4.639	73	888627	43.635
32) trans-1,2-Dichloroethene	(2)	4.655	96	287182	45.681
34) n-Hexane	(2)	5.067	57	421248	44.391
36) 1,1-Dichloroethane	(2)	5.311	63	527972	45.554
38) di-Isopropyl ether	(2)	5.359	45	920165	42.088
39) 2-Chloro-1,3-butadiene	(2)	5.417	53	420137	42.679
40) Ethyl t-butyl ether	(2)	5.900	59	867432	41.158
90) 1,3-Dichloropropene (total)	(3)		100	927931	94.272
44) 2-Butanone	(2)	6.105	43	428984	105.743
42) cis-1,2-Dichloroethene	(2)	6.141	96	321035	46.398
45) 2,2-Dichloropropane	(2)	6.163	77	364261	41.531
47) Propionitrile	(1)	6.186	54	311155	240.371
48) Methacrylonitrile	(2)	6.408	67	419663	115.005
49) Bromochloromethane	(2)	6.478	128	170635	50.400
50) Tetrahydrofuran	(1)	6.485	71	118850	113.910
51) Chloroform	(2)	6.623	83	495603	45.072

* = Compound is an internal standard.

Digitally signed by Angela D. Sneeringer
on 03/11/2015 at 14:27.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11c01.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:02 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-MAR-2015 14:22
Date, time and analyst ID of latest file update: 11-Mar-2015 14:27 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
52)$Dibromofluoromethane	(2)	6.842	113	323509	49.596
52)$Dibromofluoromethane	(2)	6.842	111	330580	49.649
101) 1-Chlorohexane	(3)	6.845	91	23448	2.608
53) 1,1,1-Trichloroethane	(2)	6.855	97	424417	40.684
54) Cyclohexane	(2)	6.961	56	495334	42.170
54) Cyclohexane	(2)	6.961	84	419251	44.129
54) Cyclohexane	(2)	6.964	69	153649	43.243
55) 1,1-Dichloropropene	(2)	7.067	75	379769	43.764
56) Carbon Tetrachloride	(2)	7.070	117	359794	46.270
58) Isobutyl Alcohol	(1)	7.192	41	204496	597.189
57)$1,2-Dichloroethane-d4	(2)	7.305	102	81700	50.595
57)$1,2-Dichloroethane-d4	(2)	7.308	65	361874	47.709
57)$1,2-Dichloroethane-d4	(2)	7.305	104	52706	57.438
60) Benzene	(2)	7.330	78	1224309	45.445
61) 1,2-Dichloroethane	(2)	7.411	62	377100	44.397
61) 1,2-Dichloroethane	(2)	7.411	98	39710	48.645
65) t-Amyl methyl ether	(2)	7.520	73	855897	42.092
66)*Fluorobenzene	(2)	7.736	96	1365156	50.000
67) n-Heptane	(2)	7.739	43	437863	43.638
108) Xylene (Total)	(3)		106	1758489	145.656
69) n-Butanol	(1)	8.073	56	374108	1240.152
71) Trichloroethene	(2)	8.218	95	312979	45.597
72) Methylcyclohexane	(2)	8.533	83	557000	46.759
72) Methylcyclohexane	(2)	8.530	98	249109	46.504
73) 1,2-Dichloropropane	(2)	8.555	63	320801	44.824
76) Methyl Methacrylate	(2)	8.623	69	277779	46.475
75) 1,4-Dioxane	(1)	8.639	88	67281	652.467
74) Dibromomethane	(2)	8.668	93	208301	46.788
78) Bromodichloromethane	(2)	8.899	83	379621	46.044
79) 2-Nitropropane	(2)	9.157	41	215140	96.447
80) 2-Chloroethyl Vinyl Ether	(2)	9.256	63	243056	46.814
81) cis-1,3-Dichloropropene	(2)	9.446	75	484677	46.302
82) 4-Methyl-2-pentanone	(2)	9.600	43	956095	107.864
83)$Toluene-d8	(3)	9.748	98	1321271	50.108
83)$Toluene-d8	(3)	9.748	100	861128	49.674
141) Diethylbenzene (total)	(4)		100	2712778	150.017
88) Toluene	(3)	9.825	92	783520	47.629
89) trans-1,3-Dichloropropene	(3)	10.083	75	443254	47.970

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

Digitally signed by Angela D. Sneeringer
on 03/11/2015 at 14:27.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11c01.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:02 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-MAR-2015 14:22
Date, time and analyst ID of latest file update: 11-Mar-2015 14:27 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
91) Ethyl Methacrylate	(3)	10.134	69	498471	47.253
92) 1,1,2-Trichloroethane	(3)	10.289	97	303479	48.756
93) Tetrachloroethene	(3)	10.372	166	344221	49.157
94) 1,3-Dichloropropane	(3)	10.452	76	510811	47.284
96) 2-Hexanone	(3)	10.488	43	724160	114.520
97) Dibromochloromethane	(3)	10.668	129	315142	50.242
99) 1,2-Dibromoethane	(3)	10.784	107	328506	49.202
100)*Chlorobenzene-d5	(3)	11.208	117	1012761	50.000
102) Chlorobenzene	(3)	11.231	112	884051	48.964
103) 1,1,1,2-Tetrachloroethane	(3)	11.314	131	295780	50.139
104) Ethylbenzene	(3)	11.317	91	1490577	47.293
106) m+p-Xylene	(3)	11.430	106	1185681	97.491
107) o-Xylene	(3)	11.758	106	572808	48.165
109) Styrene	(3)	11.777	104	985006	49.457
110) Bromoform	(3)	11.941	173	231352	49.426
111) Isopropylbenzene	(3)	12.057	105	1494072	46.951
112) Cyclohexanone	(1)	12.134	55	161110A	421.558
114)$4-Bromofluorobenzene	(3)	12.208	95	495003	47.153
114)$4-Bromofluorobenzene	(3)	12.208	174	434679	50.698
116) 1,1,2,2-Tetrachloroethane	(4)	12.305	83	472846	47.668
115) Bromobenzene	(4)	12.324	156	407138	50.571
118) trans-1,4-Dichloro-2-butene	(4)	12.327	53	302860	128.743
117) 1,2,3-Trichloropropane	(4)	12.353	110	140225	48.830
119) n-Propylbenzene	(4)	12.388	91	1798412	46.415
120) 2-Chlorotoluene	(4)	12.465	126	363624	47.696
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	1300125	46.897
121) 4-Chlorotoluene	(4)	12.559	126	384329	48.397
124) tert-Butylbenzene	(4)	12.764	134	268084	46.971
125) Pentachloroethane	(4)	12.800	167	262536	56.994
126) 1,2,4-Trimethylbenzene	(4)	12.806	105	1336822	47.489
127) sec-Butylbenzene	(4)	12.928	105	1666256	46.761
129) 1,3-Dichlorobenzene	(4)	13.031	146	765104	49.319
130) p-Isopropyltoluene	(4)	13.034	119	1469870	47.903
131)*1,4-Dichlorobenzene-d4	(4)	13.086	152	548398	50.000
133) 1,4-Dichlorobenzene	(4)	13.105	146	787197	49.123
134) 1,2,3-Trimethylbenzene	(4)	13.112	105	1504409	51.751
135) Benzyl Chloride	(4)	13.179	91	931270	50.127
136) 1,3-Diethylbenzene	(4)	13.234	119	966589	50.210

A = User selected an alternate hit.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 03/11/2015 at 14:27.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11c01.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:02 Analyst ID: ADS01731

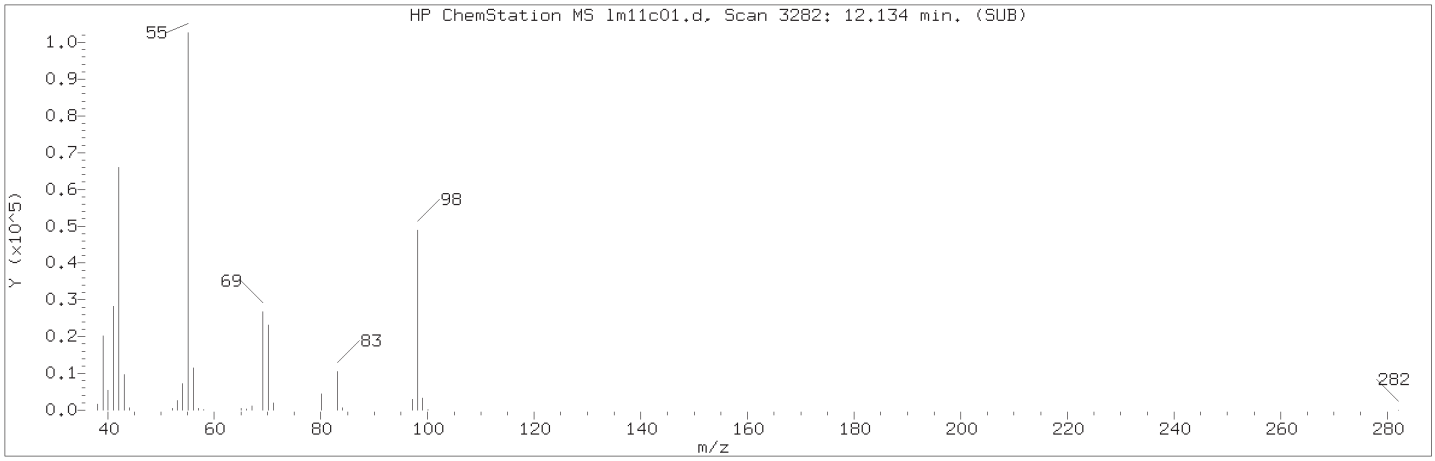
Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-MAR-2015 14:22
Date, time and analyst ID of latest file update: 11-Mar-2015 14:27 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

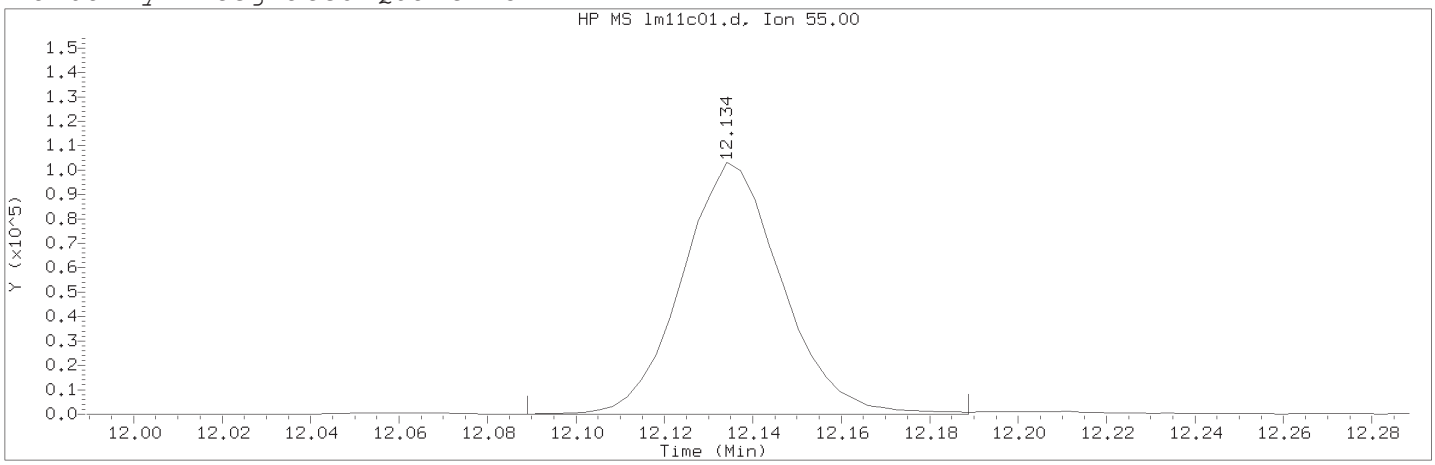
	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
137)	1,4-Diethylbenzene	(4)	13.308	119	975804	49.963
139)	n-Butylbenzene	(4)	13.327	92	731711	45.773
138)	1,2-Dichlorobenzene	(4)	13.359	146	761707	48.617
140)	1,2-Diethylbenzene	(4)	13.375	119	770385	49.844
142)	1,2-Dibromo-3-chloropropane	(4)	13.906	75	91334	45.616
144)	1,3,5-Trichlorobenzene	(4)	14.028	180	604647	46.311
146)	1,2,4-Trichlorobenzene	(4)	14.452	180	578021	45.932
147)	Hexachlorobutadiene	(4)	14.529	225	264195	44.762
148)	Naphthalene	(4)	14.636	128	1681032	46.970
149)	1,2,3-Trichlorobenzene	(4)	14.774	180	555811	46.310
150)	2-Methylnaphthalene	(4)	15.404	142	1029563	45.169

Digitally signed by Angela D. Sneeringer
on 03/11/2015 at 14:27.
Target 3.5 esignature user ID: ads01731

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15mar11b.b/lm11c01.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:02 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-BN
Calibration date and time: 11-MAR-2015 14:22
Date, time and analyst ID of latest file update: 11-Mar-2015 14:27 ads01731

Sample Name: VSTD050 Lab Sample ID: VSTD050

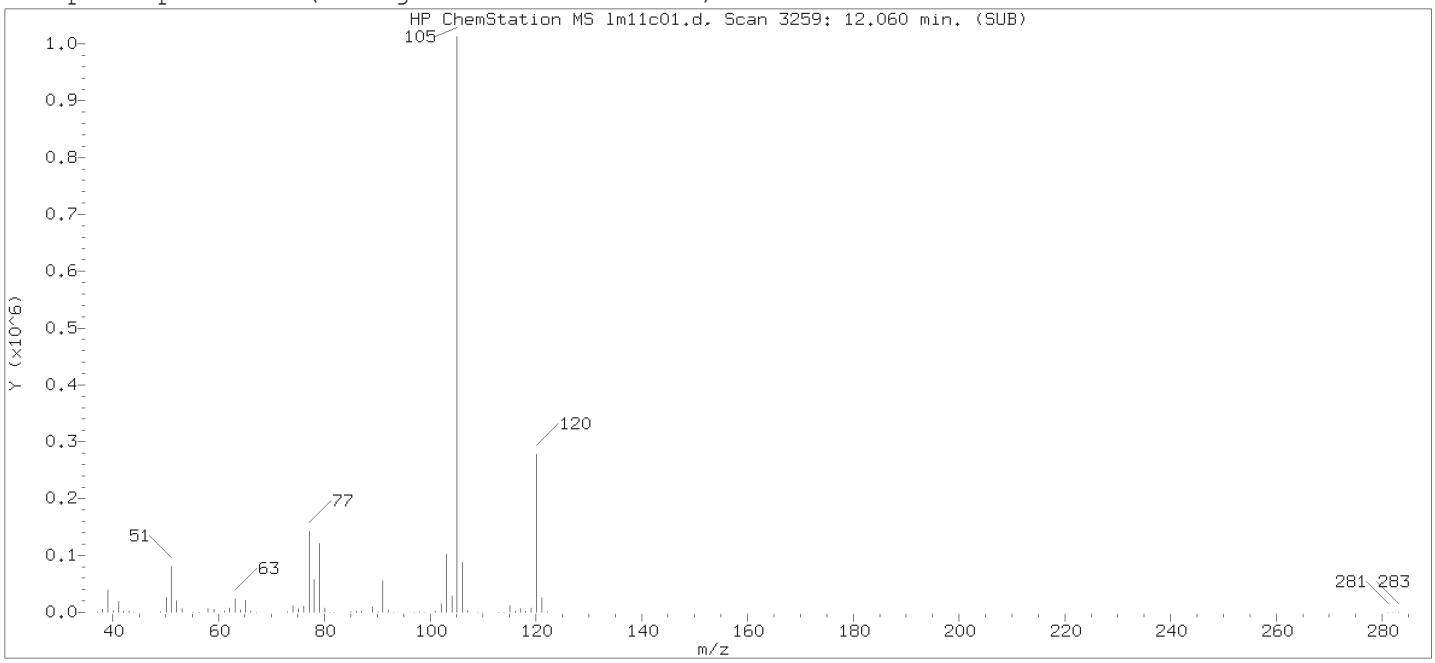
Compound Number : 112
Compound Name : Cyclohexanone
Scan Number : 3282
Retention Time (minutes): 12.134
Quant Ion : 55.00
Area (flag) : 161110A
On-Column Amount (ng) : 421.5583
Integration start scan : 3267 Integration stop scan: 3298
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

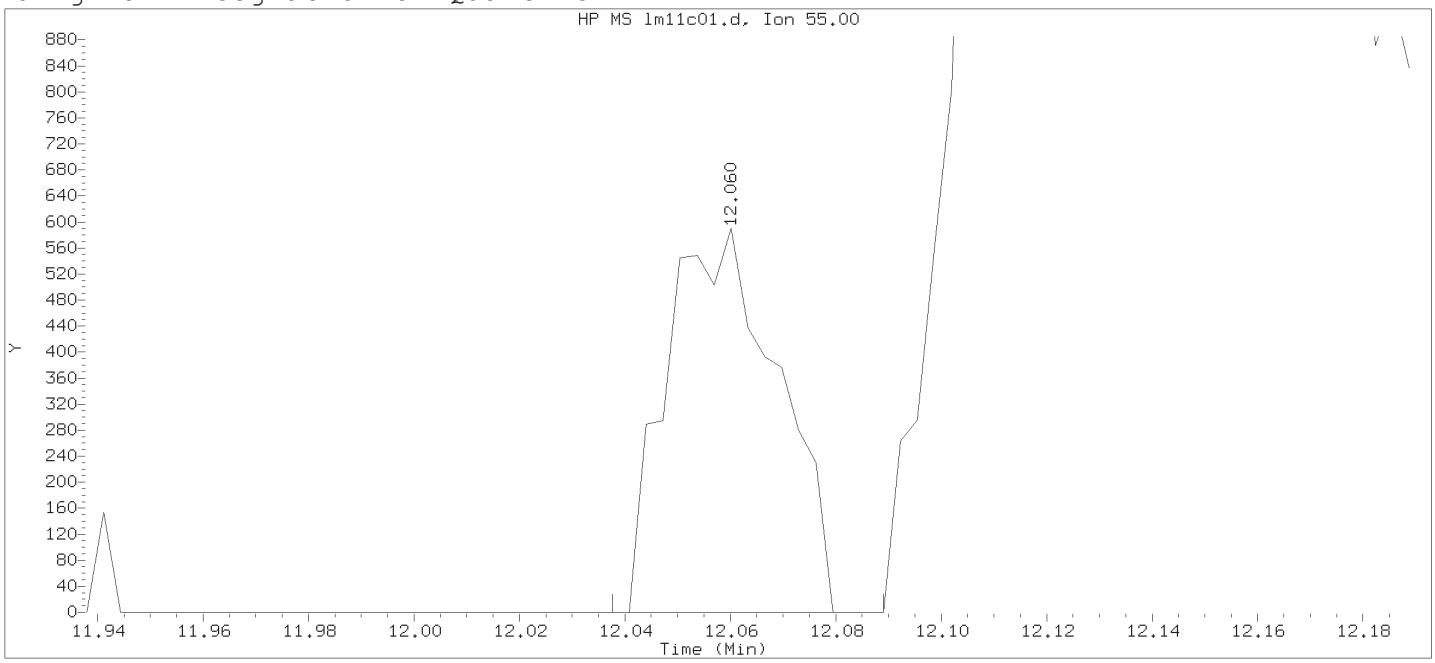
Analyst responsible for change: Digitally signed by Angela D. Sneeringer on 03/11/2015 at 14:27.
Target 3.5 esignature user ID: ads01731

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:00.
Parallax ID: cbs01947

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15mar11b.b/lm11c01.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:02 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: all
Calibration date and time: 11-MAR-2015 14:21
Date, time and analyst ID of latest file update: 11-Mar-2015 14:21 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 112
Compound Name : Cyclohexanone
Scan Number : 3259
Retention Time (minutes): 12.060
Quant Ion : 55.00
Area : 865
On-column Amount (ng) : 2.2650
Integration start scan : 3251 Integration stop scan: 3267
Y at integration start : 0 Y at integration end: 0

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Target 3.5 esignature user ID: ads01731

Raw QC Data

Volatiles by GC/MS

Analysis Summary for GC/MS Volatiles

Data file: /chem/HP09915.i/15mar11b.b/lm11b05.d Injection date and time: **11-MAR-2015 14:47**
Data file Sample Info. Line: VBLKL64;VBLKL64;1;3;;;;;; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 15:17 ads01731

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C+SM**
Calibration date and time (Last Method Edit): 11-MAR-2015 15:13
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
29) t-Butyl alcohol-d10	4.228	(-0.010)	823	65	181266	(-25)	250.00	
66) Fluorobenzene	7.739	(-0.003)	1915	96	1174563	(-14)	50.00	
100) Chlorobenzene-d5	11.208	(0.000)	2994	117	888769	(-12)	50.00	
131) 1,4-Dichlorobenzene-d4	13.089	(-0.003)	3579	152	470586	(-14)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(2)	6.845	(0.000)	113	274868	48.977	98%		80 - 116
57) 1,2-Dichloroethane-d4	(2)	7.308	(0.000)	102	71452	51.429	103%		77 - 113
83) Toluene-d8	(3)	9.748	(0.000)	98	1129159	48.797	98%		80 - 113
114) 4-Bromofluorobenzene	(3)	12.208	(0.000)	95	422888	45.903	92%		78 - 113

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
3) Dichlorodifluoromethane	(2)				Not Detected					0.5	1
4) Chloromethane	(2)				Not Detected					0.5	1
6) Vinyl Chloride	(2)				Not Detected					0.5	1
8) Bromomethane	(2)				Not Detected					0.5	1
9) Chloroethane	(2)				Not Detected					0.5	1
12) Trichlorofluoromethane	(2)				Not Detected					0.5	1
14) Ethyl ether	(2)				Not Detected					2	5
16) Acrolein	(1)				Not Detected					40	100
17) 1,1-Dichloroethene	(2)				Not Detected					0.5	1
18) Acetone	(1)				Not Detected					6	20
19) Freon 113	(2)				Not Detected					2	10
21) 2-Propanol	(1)				Not Detected					50	100
22) Methyl Iodide	(2)				Not Detected					0.5	1
23) Carbon Disulfide	(2)				Not Detected					1	5
24) Acetonitrile	(1)				Not Detected					25	100
25) Allyl Chloride	(2)				Not Detected					1	5
27) Methyl Acetate	(2)				Not Detected					1	5
28) Methylene Chloride	(2)				Not Detected					2	4
30) t-Butyl alcohol	(1)				Not Detected					5	20
31) Acrylonitrile	(2)				Not Detected					4	20
32) trans-1,2-Dichloroethene	(2)				Not Detected					0.5	1
33) Methyl Tertiary Butyl Ether	(2)				Not Detected					0.5	1
34) n-Hexane	(2)				Not Detected					2	5
36) 1,1-Dichloroethane	(2)				Not Detected					0.5	1
38) di-Isopropyl ether	(2)				Not Detected					0.5	1
39) 2-Chloro-1,3-butadiene	(2)				Not Detected					1	5
40) Ethyl t-butyl ether	(2)				Not Detected					0.5	1
42) cis-1,2-Dichloroethene	(2)				Not Detected					0.5	1
43) 1,2-Dichloroethene (Total)	(2)				Not Detected					0.5	1
44) 2-Butanone	(2)				Not Detected					3	10
45) 2,2-Dichloropropane	(2)				Not Detected					0.5	1

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Data file: /chem/HP09915.i/15mar11b.b/lm11b05.d Injection date and time: **11-MAR-2015 14:47**
Data file Sample Info. Line: VBLKL64;VBLKL64;1;3;;;;;; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 15:17 ads01731

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C+SM**
Calibration date and time (Last Method Edit): 11-MAR-2015 15:13
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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 (in sample)	LOQ (in sample)
46) Ethyl Acetate	(2)				Not Detected					1	5
47) Propionitrile	(1)				Not Detected					30	100
48) Methacrylonitrile	(2)				Not Detected					10	50
49) Bromochloromethane	(2)				Not Detected					1	5
50) Tetrahydrofuran	(1)				Not Detected					4	10
51) Chloroform	(2)				Not Detected					0.5	1
53) 1,1,1-Trichloroethane	(2)				Not Detected					0.5	1
54) Cyclohexane	(2)				Not Detected					2	5
55) 1,1-Dichloropropene	(2)				Not Detected					1	5
56) Carbon Tetrachloride	(2)				Not Detected					0.5	1
58) Isobutyl Alcohol	(1)				Not Detected					100	250
60) Benzene	(2)				Not Detected					0.5	1
61) 1,2-Dichloroethane	(2)				Not Detected					0.5	1
65) t-Amyl methyl ether	(2)				Not Detected					0.5	1
67) n-Heptane	(2)				Not Detected					2	5
69) n-Butanol	(1)				Not Detected					100	250
71) Trichloroethene	(2)				Not Detected					0.5	1
72) Methylcyclohexane	(2)				Not Detected					1	5
73) 1,2-Dichloropropane	(2)				Not Detected					0.5	1
74) Dibromomethane	(2)				Not Detected					0.5	1
75) 1,4-Dioxane	(1)				Not Detected					70	250
76) Methyl Methacrylate	(2)				Not Detected					1	5
78) Bromodichloromethane	(2)				Not Detected					0.5	1
79) 2-Nitropropane	(2)				Not Detected					2	10
80) 2-Chloroethyl Vinyl Ether	(2)				Not Detected					2	10
81) cis-1,3-Dichloropropene	(2)				Not Detected					0.5	1
82) 4-Methyl-2-pentanone	(2)				Not Detected					3	10
88) Toluene	(3)				Not Detected					0.5	1
89) trans-1,3-Dichloropropene	(3)				Not Detected					0.5	1
90) 1,3-Dichloropropene (total)	(3)				Not Detected					1	5
91) Ethyl Methacrylate	(3)				Not Detected					1	5
92) 1,1,2-Trichloroethane	(3)				Not Detected					0.5	1
93) Tetrachloroethene	(3)				Not Detected					0.5	1
94) 1,3-Dichloropropane	(3)				Not Detected					0.5	1
96) 2-Hexanone	(3)				Not Detected					3	10
97) Dibromochloromethane	(3)				Not Detected					0.5	1
99) 1,2-Dibromoethane	(3)				Not Detected					0.5	1
102) Chlorobenzene	(3)				Not Detected					0.5	1
103) 1,1,1,2-Tetrachloroethane	(3)				Not Detected					0.5	1
104) Ethylbenzene	(3)				Not Detected					0.5	1
106) m+p-Xylene	(3)				Not Detected					0.5	1
107) o-Xylene	(3)				Not Detected					0.5	1
108) Xylene (Total)	(3)				Not Detected					0.5	1
109) Styrene	(3)				Not Detected					1	5
110) Bromoform	(3)				Not Detected					0.5	4
111) Isopropylbenzene	(3)				Not Detected					1	5
112) Cyclohexanone	(1)				Not Detected					25	100
115) Bromobenzene	(4)				Not Detected					1	5
116) 1,1,2,2-Tetrachloroethane	(4)				Not Detected					0.5	1
117) 1,2,3-Trichloropropane	(4)				Not Detected					1	5
118) trans-1,4-Dichloro-2-butene	(4)				Not Detected					15	50
119) n-Propylbenzene	(4)				Not Detected					1	5
120) 2-Chlorotoluene	(4)				Not Detected					1	5
121) 4-Chlorotoluene	(4)				Not Detected					1	5

Digitally signed by Angela D. Sneeringer on 03/11/2015 at 15:17. Target 3.5 esignature user ID: ads01731

Data file: /chem/HP09915.i/15mar11b.b/lm11b05.d Injection date and time: **11-MAR-2015 14:47**
Data file Sample Info. Line: VBLKL64;VBLKL64;1;3;;;;;; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 15:17 ads01731

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C+SM**
Calibration date and time (Last Method Edit): 11-MAR-2015 15:13
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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**

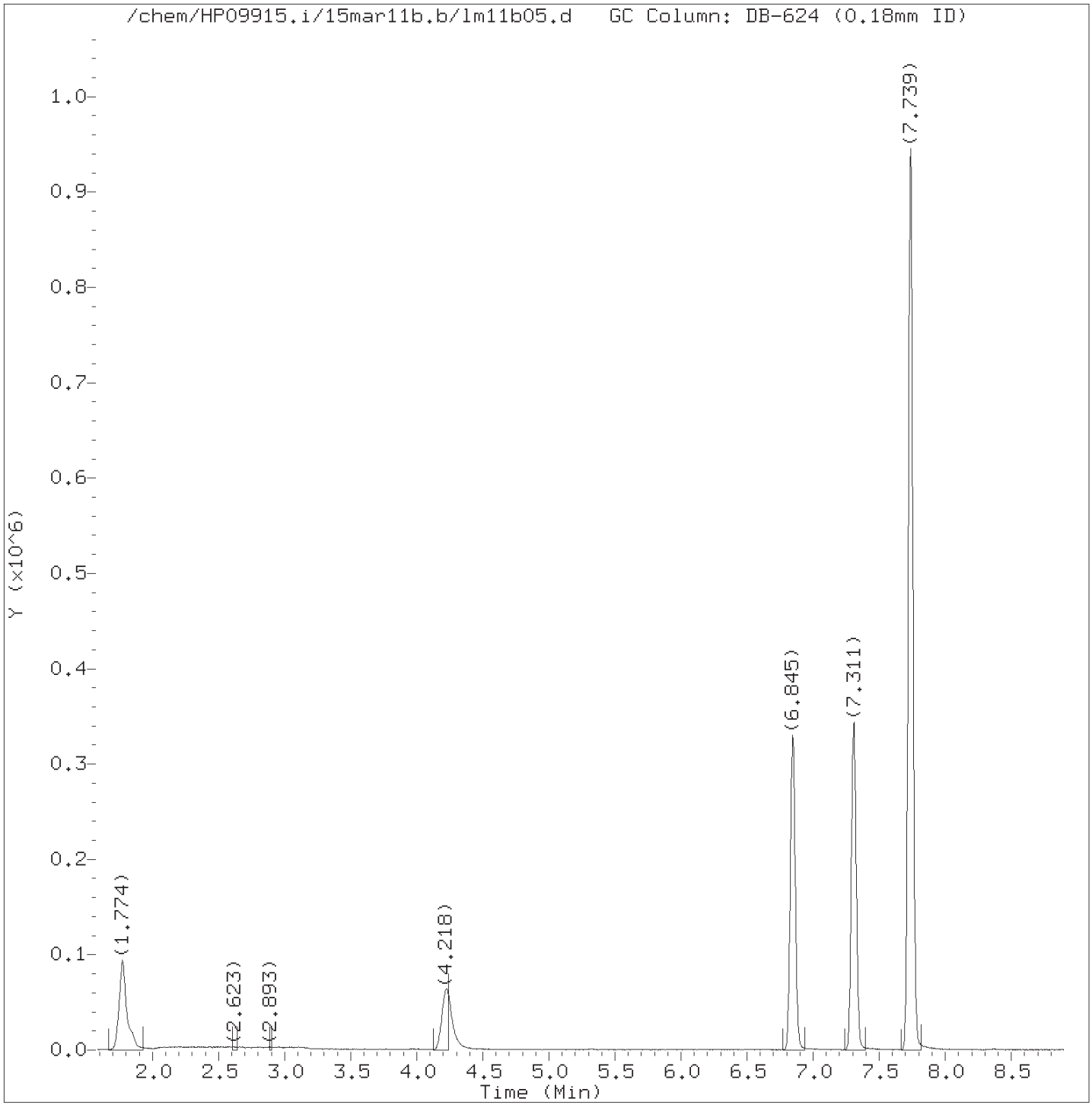
Volume Purged (Vt): 5 ml Sample Volume (Vo): 5 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
122) 1,3,5-Trimethylbenzene	(4)				Not Detected					1	5
124) tert-Butylbenzene	(4)				Not Detected					1	5
125) Pentachloroethane	(4)				Not Detected					1	5
126) 1,2,4-Trimethylbenzene	(4)				Not Detected					1	5
127) sec-Butylbenzene	(4)				Not Detected					1	5
129) 1,3-Dichlorobenzene	(4)				Not Detected					1	5
130) p-Isopropyltoluene	(4)				Not Detected					1	5
133) 1,4-Dichlorobenzene	(4)				Not Detected					1	5
134) 1,2,3-Trimethylbenzene	(4)				Not Detected					1	5
135) Benzyl Chloride	(4)				Not Detected					1	5
136) 1,3-Diethylbenzene	(4)				Not Detected					1	5
137) 1,4-Diethylbenzene	(4)				Not Detected					1	5
138) 1,2-Dichlorobenzene	(4)				Not Detected					1	5
139) n-Butylbenzene	(4)				Not Detected					1	5
140) 1,2-Diethylbenzene	(4)				Not Detected					1	5
141) Diethylbenzene (total)	(4)				Not Detected					1	5
142) 1,2-Dibromo-3-chloropropane	(4)				Not Detected					2	5
144) 1,3,5-Trichlorobenzene	(4)				Not Detected					1	5
146) 1,2,4-Trichlorobenzene	(4)				Not Detected					1	5
147) Hexachlorobutadiene	(4)				Not Detected					2	5
148) Naphthalene	(4)				Not Detected					1	5
149) 1,2,3-Trichlorobenzene	(4)				Not Detected					1	5
150) 2-Methylnaphthalene	(4)				Not Detected					2	5

Total number of targets = 108

Digitally signed by Angela D. Sneeringer on 03/11/2015 at 15:17. Target 3.5 esignature user ID: ads01731

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:00. Parallax ID: cbs01947



Total Ion Chromatogram (TIC)

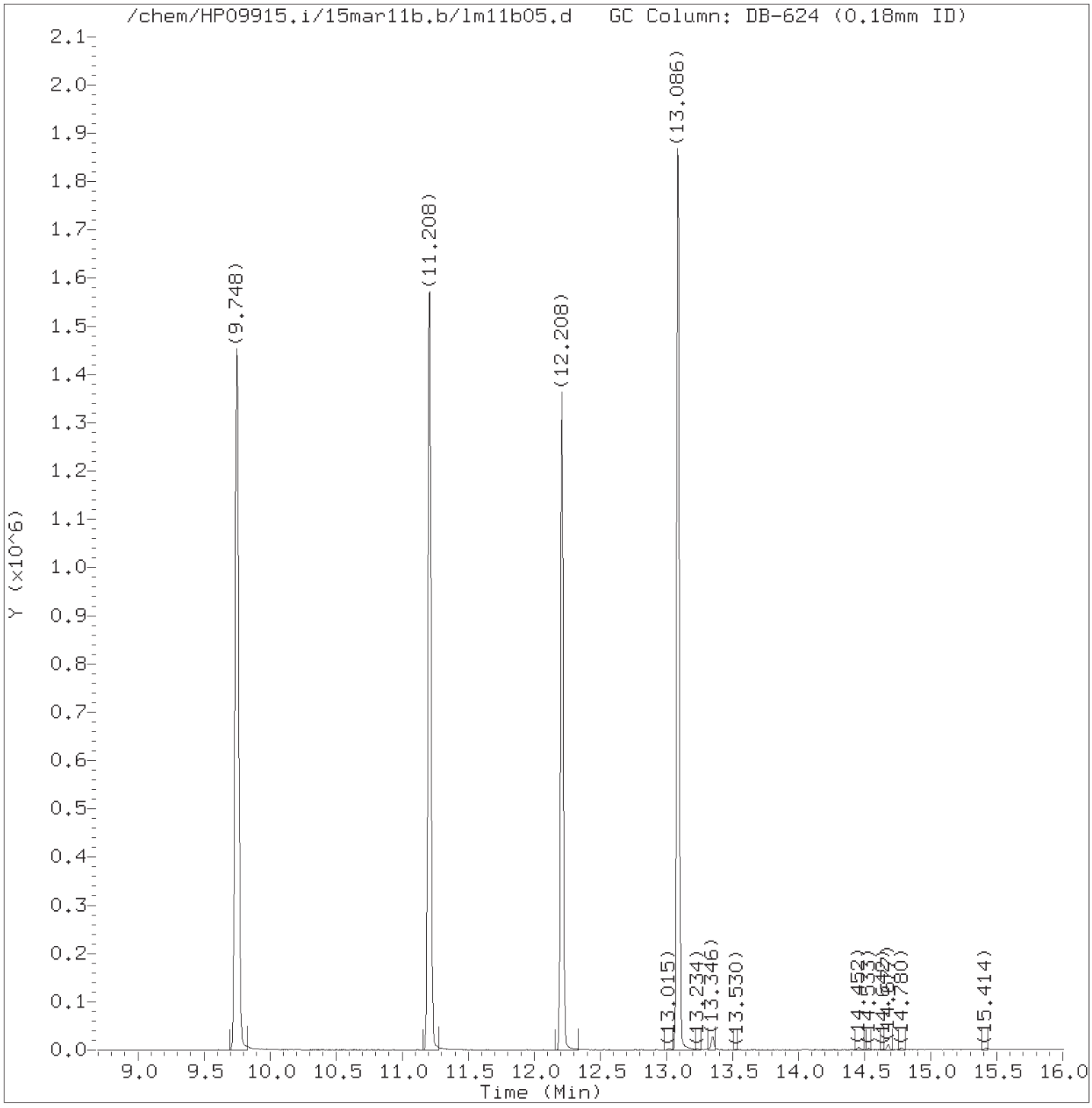
Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11b05.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:47 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C+SM
Calibration date and time: 11-MAR-2015 15:13
Date, time and analyst ID of latest file update: 11-Mar-2015 15:17 ads01731

Sample Name: VBLKL64 Lab Sample ID: VBLKL64

Digitally signed by Angela D. Sneeringer
on 03/11/2015 at 15:17.
Target 3.5 esignature user ID: ads01731



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11b05.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:47 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C+SM
Calibration date and time: 11-MAR-2015 15:13
Date, time and analyst ID of latest file update: 11-Mar-2015 15:17 ads01731

Sample Name: VBLKL64 Lab Sample ID: VBLKL64

Digitally signed by Angela D. Sneeringer
on 03/11/2015 at 15:17.
Target 3.5 esignature user ID: ads01731

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11b05.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 14:47 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C+SM
Calibration date and time: 11-MAR-2015 15:13
Date, time and analyst ID of latest file update: 11-Mar-2015 15:17 ads01731

Sample Name: VBLKL64 Lab Sample ID: VBLKL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
29)*t-Butyl alcohol-d10	(1)	4.228	65	181266	250.000
52)$Dibromofluoromethane	(2)	6.845	113	274868	48.977
57)$1,2-Dichloroethane-d4	(2)	7.308	102	71452	51.429
66)*Fluorobenzene	(2)	7.739	96	1174563	50.000
83)$Toluene-d8	(3)	9.748	98	1129159	48.797
100)*Chlorobenzene-d5	(3)	11.208	117	888769	50.000
114)$4-Bromofluorobenzene	(3)	12.208	95	422888	45.903
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	470586	50.000

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

Digitally signed by Angela D. Sneeringer
on 03/11/2015 at 15:17.
Target 3.5 esignature user ID: ads01731

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSL64

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCSL64

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s41a.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	19	
74-87-3	Chloromethane	17	
75-01-4	Vinyl Chloride	18	
74-83-9	Bromomethane	16	
75-00-3	Chloroethane	18	
75-69-4	Trichlorofluoromethane	20	
60-29-7	Ethyl ether	19	
107-02-8	Acrolein	150	
75-35-4	1,1-Dichloroethene	16	
67-64-1	Acetone	180	
76-13-1	Freon 113	16	
67-63-0	2-Propanol	150	
74-88-4	Methyl Iodide	16	
75-15-0	Carbon Disulfide	11	
107-05-1	Allyl Chloride	18	
79-20-9	Methyl Acetate	19	
75-09-2	Methylene Chloride	18	
75-65-0	t-Butyl alcohol	200	
107-13-1	Acrylonitrile	93	
156-60-5	trans-1,2-Dichloroethene	18	
1634-04-4	Methyl Tertiary Butyl Ether	18	
110-54-3	n-Hexane	15	
75-34-3	1,1-Dichloroethane	17	
108-20-3	di-Isopropyl ether	18	
126-99-8	2-Chloro-1,3-butadiene	16	
637-92-3	Ethyl t-butyl ether	17	
156-59-2	cis-1,2-Dichloroethene	19	
540-59-0	1,2-Dichloroethene (Total)	37	
78-93-3	2-Butanone	140	
594-20-7	2,2-Dichloropropane	16	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSL64

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCSL64

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s41a.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
107-12-0	Propionitrile	160	
126-98-7	Methacrylonitrile	140	
74-97-5	Bromochloromethane	21	
109-99-9	Tetrahydrofuran	110	
67-66-3	Chloroform	19	
71-55-6	1,1,1-Trichloroethane	15	
110-82-7	Cyclohexane	16	
563-58-6	1,1-Dichloropropene	18	
56-23-5	Carbon Tetrachloride	18	
78-83-1	Isobutyl Alcohol	490	
71-43-2	Benzene	19	
107-06-2	1,2-Dichloroethane	19	
994-05-8	t-Amyl methyl ether	17	
142-82-5	n-Heptane	17	
71-36-3	n-Butanol	960	
79-01-6	Trichloroethene	19	
108-87-2	Methylcyclohexane	19	
78-87-5	1,2-Dichloropropane	19	
74-95-3	Dibromomethane	19	
123-91-1	1,4-Dioxane	510	
80-62-6	Methyl Methacrylate	18	
75-27-4	Bromodichloromethane	17	
79-46-9	2-Nitropropane	16	
110-75-8	2-Chloroethyl Vinyl Ether	18	
10061-01-5	cis-1,3-Dichloropropene	18	
108-10-1	4-Methyl-2-pentanone	91	
108-88-3	Toluene	19	
10061-02-6	trans-1,3-Dichloropropene	19	
542-75-6	1,3-Dichloropropene (total)	37	
97-63-2	Ethyl Methacrylate	18	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSL64

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCSL64

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s41a.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	20	
127-18-4	Tetrachloroethene	20	
142-28-9	1,3-Dichloropropane	19	
591-78-6	2-Hexanone	91	
124-48-1	Dibromochloromethane	19	
106-93-4	1,2-Dibromoethane	20	
108-90-7	Chlorobenzene	20	
630-20-6	1,1,1,2-Tetrachloroethane	20	
100-41-4	Ethylbenzene	19	
179601-23-1	m+p-Xylene	40	
95-47-6	o-Xylene	20	
1330-20-7	Xylene (Total)	60	
100-42-5	Styrene	20	
75-25-2	Bromoform	17	
98-82-8	Isopropylbenzene	19	
108-94-1	Cyclohexanone	410	
108-86-1	Bromobenzene	21	
79-34-5	1,1,2,2-Tetrachloroethane	19	
96-18-4	1,2,3-Trichloropropane	19	
110-57-6	trans-1,4-Dichloro-2-butene	110	
103-65-1	n-Propylbenzene	19	
95-49-8	2-Chlorotoluene	20	
106-43-4	4-Chlorotoluene	20	
108-67-8	1,3,5-Trimethylbenzene	19	
98-06-6	tert-Butylbenzene	19	
76-01-7	Pentachloroethane	21	
95-63-6	1,2,4-Trimethylbenzene	20	
135-98-8	sec-Butylbenzene	19	
541-73-1	1,3-Dichlorobenzene	20	
99-87-6	p-Isopropyltoluene	19	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCSL64

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCSL64

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s41a.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
106-46-7	1,4-Dichlorobenzene	21	
526-73-8	1,2,3-Trimethylbenzene	20	
100-44-7	Benzyl Chloride	17	
141-93-5	1,3-Diethylbenzene	19	
105-05-5	1,4-Diethylbenzene	20	
95-50-1	1,2-Dichlorobenzene	20	
104-51-8	n-Butylbenzene	19	
135-01-3	1,2-Diethylbenzene	21	
25340-17-4	Diethylbenzene (total)	60	
96-12-8	1,2-Dibromo-3-chloropropane	16	
108-70-3	1,3,5-Trichlorobenzene	19	
120-82-1	1,2,4-Trichlorobenzene	19	
87-68-3	Hexachlorobutadiene	18	
91-20-3	Naphthalene	18	
87-61-6	1,2,3-Trichlorobenzene	19	
91-57-6	2-Methylnaphthalene	16	

Data file: /chem/HP09915.i/15mar11b.b/lm11s41a.d Injection date and time: **11-MAR-2015 17:01**
Data file Sample Info. Line: LCSL64;LCSL64;1;3;LCS;;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
29) t-Butyl alcohol-d10	4.240	(-0.022)	827	65	186041	(-23)	250.00	
66) Fluorobenzene	7.739	(-0.003)	1915	96	1186191	(-13)	50.00	
100) Chlorobenzene-d5	11.208	(0.000)	2994	117	892871	(-12)	50.00	
131) 1,4-Dichlorobenzene-d4	13.089	(-0.003)	3579	152	486361	(-11)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(2)	6.848	(0.000)	113	278597	49.155	98%		80 - 116
57) 1,2-Dichloroethane-d4	(2)	7.311	(0.000)	102	72004	51.318	103%		77 - 113
83) Toluene-d8	(3)	9.748	(0.000)	98	1156551	49.751	100%		80 - 113
114) 4-Bromofluorobenzene	(3)	12.208	(0.000)	95	438598	47.389	95%		78 - 113

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
3) Dichlorodifluoromethane	(2)	1.986	(-0.000)	85	128023	18.995	19.00			0.5	1
4) Chloromethane	(2)	2.134	(0.001)	50	121066	16.940	16.94			0.5	1
6) Vinyl Chloride	(2)	2.276	(0.000)	62	117040	17.667	17.67			0.5	1
8) Bromomethane	(2)	2.588	(0.001)	94	64247	16.254	16.25			0.5	1
9) Chloroethane	(2)	2.694	(0.000)	64	64552	18.031	18.03			0.5	1
12) Trichlorofluoromethane	(2)	3.012	(0.000)	101	141197	19.679	19.68			0.5	1
14) Ethyl ether	(2)	3.260	(-0.000)	59	101673	19.188	19.19			2	5
16) Acrolein	(1)	3.433	(0.002)	56	215776	153.729	153.73			40	100
17) 1,1-Dichloroethene	(2)	3.581	(-0.001)	96	74689M	15.541	15.54			0.5	1
18) Acetone	(1)	3.597	(0.001)	58	99005	175.054	175.05			6	20
19) Freon 113	(2)	3.600	(0.000)	101	78880	16.209	16.21			2	10
21) 2-Propanol	(1)	3.758	(0.000)	45	71094	147.705	147.70			50	100
22) Methyl Iodide	(2)	3.784	(-0.000)	142	140390	16.164	16.16			0.5	1
23) Carbon Disulfide	(2)	3.893	(-0.000)	76	179119	11.177	11.18			1	5
25) Allyl Chloride	(2)	4.054	(-0.000)	41	152397	18.458	18.46			1	5
27) Methyl Acetate	(2)	4.015	(-0.001)	43	105376	19.045	19.04			1	5
28) Methylene Chloride	(2)	4.247	(-0.000)	84	105045	17.534	17.53			2	4
30) t-Butyl alcohol	(1)	4.359	(0.003)	59	157317	198.793	198.79			5	20
31) Acrylonitrile	(2)	4.562	(-0.000)	53	262878	93.115	93.11			4	20
32) trans-1,2-Dichloroethene	(2)	4.665	(-0.000)	96	99988M	18.304	18.30			0.5	1
33) Methyl Tertiary Butyl Ether	(2)	4.642	(-0.000)	73	310436	17.543	17.54			0.5	1
34) n-Hexane	(2)	5.073	(-0.000)	57	123947	15.032	15.03			2	5
36) 1,1-Dichloroethane	(2)	5.318	(-0.000)	63	174853	17.363	17.36			0.5	1
38) di-Isopropyl ether	(2)	5.369	(-0.000)	45	333548	17.558	17.56			0.5	1
39) 2-Chloro-1,3-butadiene	(2)	5.427	(-0.000)	53	134334	15.705	15.71			1	5
40) Ethyl t-butyl ether	(2)	5.903	(-0.000)	59	306162	16.718	16.72			0.5	1
42) cis-1,2-Dichloroethene	(2)	6.147	(-0.000)	96	115248	19.169	19.17			0.5	1
43) 1,2-Dichloroethene (Total)	(2)			96	215236	37.474	37.47			0.5	1
44) 2-Butanone	(2)	6.112	(-0.000)	43	500075	141.864	141.86			3	10
45) 2,2-Dichloropropane	(2)	6.157	(0.001)	77	120948	15.870	15.87			0.5	1
47) Propionitrile	(1)	6.195	(0.005)	54	161582	161.186	161.19			30	100

M = Compound was manually integrated.

Digitally signed by Kevin A. Sposito on 03/11/2015 at 17:39. Target 3.5 esignature user ID: kas02648

Data file: /chem/HP09915.i/15mar11b.b/lm11s41a.d Injection date and time: **11-MAR-2015 17:01**
Data file Sample Info. Line: LCSL64;LCSL64;1;3;LCS;;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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 (in sample)	LOQ
48) Methacrylonitrile	(2)	6.414(-0.000)	67	453536	143.039	143.04			10	50
49) Bromochloromethane	(2)	6.481(-0.000)	128	62639	21.293	21.29			1	5
50) Tetrahydrofuran	(1)	6.491(0.006)	71	90101	111.512	111.51			4	10
51) Chloroform	(2)	6.629(-0.000)	83	177531	18.581	18.58			0.5	1
53) 1,1,1-Trichloroethane	(2)	6.858(-0.000)	97	139864	15.430	15.43			0.5	1
54) Cyclohexane	(2)	6.960(0.000)	56	161808	15.854	15.85			2	5
55) 1,1-Dichloropropene	(2)	7.070(-0.000)	75	138226	18.332	18.33			1	5
56) Carbon Tetrachloride	(2)	7.073(-0.000)	117	120389	17.818	17.82			0.5	1
58) Isobutyl Alcohol	(1)	7.198(0.007)	41	130512	492.161	492.16			100	250
60) Benzene	(2)	7.330(0.000)	78	434074	18.543	18.54			0.5	1
61) 1,2-Dichloroethane	(2)	7.417(-0.000)	62	141100	19.119	19.12			0.5	1
65) t-Amyl methyl ether	(2)	7.520(0.000)	73	304484	17.233	17.23			0.5	1
67) n-Heptane	(2)	7.742(0.000)	43	148394	17.020	17.02			2	5
69) n-Butanol	(1)	8.076(0.009)	56	224740	962.028	962.03			100	250
71) Trichloroethene	(2)	8.218(0.000)	95	112411	18.848	18.85			0.5	1
72) Methylcyclohexane	(2)	8.533(0.000)	83	197801	19.110	19.11			1	5
73) 1,2-Dichloropropane	(2)	8.558(0.000)	63	115983	18.651	18.65			0.5	1
74) Dibromomethane	(2)	8.674(-0.000)	93	72895	18.844	18.84			0.5	1
75) 1,4-Dioxane	(1)	8.642(0.010)	88	40684	509.470	509.47			70	250
76) Methyl Methacrylate	(2)	8.629(-0.000)	69	92189	17.751	17.75			1	5
78) Bromodichloromethane	(2)	8.902(0.000)	83	124659	17.401	17.40			0.5	1
79) 2-Nitropropane	(2)	9.160(0.000)	41	25165	16.074	16.07			2	10
80) 2-Chloroethyl Vinyl Ether	(2)	9.259(0.000)	63	79315	17.581	17.58			2	10
81) cis-1,3-Dichloropropene	(2)	9.446(0.000)	75	167097	18.371	18.37			0.5	1
82) 4-Methyl-2-pentanone	(2)	9.600(0.000)	43	700917	91.006	91.01			3	10
88) Toluene	(3)	9.825(0.000)	92	281960	19.441	19.44			0.5	1
89) trans-1,3-Dichloropropene	(3)	10.086(-0.000)	75	153059	18.789	18.79			0.5	1
90) 1,3-Dichloropropene (total)	(3)		100	320156	37.160	37.16			1	5
91) Ethyl Methacrylate	(3)	10.137(-0.000)	69	168953	18.167	18.17			1	5
92) 1,1,2-Trichloroethane	(3)	10.292(-0.000)	97	110068	20.058	20.06			0.5	1
93) Tetrachloroethene	(3)	10.372(0.000)	166	125007	20.249	20.25			0.5	1
94) 1,3-Dichloropropane	(3)	10.452(0.000)	76	182340	19.145	19.14			0.5	1
96) 2-Hexanone	(3)	10.491(-0.000)	43	505945	90.755	90.75			3	10
97) Dibromochloromethane	(3)	10.671(-0.000)	129	104618	18.918	18.92			0.5	1
99) 1,2-Dibromoethane	(3)	10.787(-0.000)	107	118910	20.201	20.20			0.5	1
102) Chlorobenzene	(3)	11.234(-0.000)	112	319641	20.081	20.08			0.5	1
103) 1,1,1,2-Tetrachloroethane	(3)	11.317(-0.000)	131	103143	19.832	19.83			0.5	1
104) Ethylbenzene	(3)	11.317(-0.000)	91	539869	19.429	19.43			0.5	1
106) m+p-Xylene	(3)	11.430(-0.000)	106	432572	40.343	40.34			0.5	1
107) o-Xylene	(3)	11.761(-0.000)	106	208914	19.925	19.93			0.5	1
108) Xylene (Total)	(3)		106	641486	60.269	60.27			0.5	1
109) Styrene	(3)	11.777(-0.000)	104	354269	20.176	20.18			1	5
110) Bromoform	(3)	11.941(-0.000)	173	71561	17.341	17.34			0.5	4
111) Isopropylbenzene	(3)	12.057(-0.000)	105	545419	19.441	19.44			1	5
112) Cyclohexanone	(1)	12.134(0.015)	55	122038	412.344	412.34			25	100
115) Bromobenzene	(4)	12.324(0.000)	156	148443	20.790	20.79			1	5
116) 1,1,2,2-Tetrachloroethane	(4)	12.301(0.000)	83	165822	18.849	18.85			0.5	1
117) 1,2,3-Trichloropropane	(4)	12.353(0.000)	110	49450	19.416	19.42			1	5
118) trans-1,4-Dichloro-2-butene	(4)	12.327(0.000)	53	227287	108.941	108.94			15	50
119) n-Propylbenzene	(4)	12.388(0.000)	91	658402	19.160	19.16			1	5
120) 2-Chlorotoluene	(4)	12.465(0.000)	126	132302	19.567	19.57			1	5
121) 4-Chlorotoluene	(4)	12.558(0.000)	126	139015	19.739	19.74			1	5
122) 1,3,5-Trimethylbenzene	(4)	12.523(0.000)	105	475002	19.319	19.32			1	5
124) tert-Butylbenzene	(4)	12.764(0.000)	134	96796	19.123	19.12			1	5

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Data file: /chem/HP09915.i/15mar11b.b/lm11s41a.d Injection date and time: **11-MAR-2015 17:01**
Data file Sample Info. Line: LCSL64;LCSL64;1;3;LCS;;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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 (in sample)	LOQ
125) Pentachloroethane	(4)	12.800(0.000)	167	87201	21.345	21.35			1	5
126) 1,2,4-Trimethylbenzene	(4)	12.806(0.000)	105	487954	19.545	19.55			1	5
127) sec-Butylbenzene	(4)	12.928(0.000)	105	607959	19.238	19.24			1	5
129) 1,3-Dichlorobenzene	(4)	13.031(0.000)	146	280170	20.363	20.36			1	5
130) p-Isopropyltoluene	(4)	13.034(0.000)	119	522469	19.199	19.20			1	5
133) 1,4-Dichlorobenzene	(4)	13.105(0.000)	146	292502	20.581	20.58			1	5
134) 1,2,3-Trimethylbenzene	(4)	13.108(0.000)	105	524792	20.355	20.36			1	5
135) Benzyl Chloride	(4)	13.179(0.000)	91	282188	17.127	17.13			1	5
136) 1,3-Diethylbenzene	(4)	13.234(0.000)	119	328712	19.253	19.25			1	5
137) 1,4-Diethylbenzene	(4)	13.308(0.000)	119	348981	20.148	20.15			1	5
138) 1,2-Dichlorobenzene	(4)	13.362(0.000)	146	276235	19.880	19.88			1	5
139) n-Butylbenzene	(4)	13.327(0.000)	92	264936	18.687	18.69			1	5
140) 1,2-Diethylbenzene	(4)	13.378(0.000)	119	282633	20.619	20.62			1	5
141) Diethylbenzene (total)	(4)		100	960326	60.020	60.02			1	5
142) 1,2-Dibromo-3-chloropropane	(4)	13.906(0.000)	75	28484	16.041	16.04			2	5
144) 1,3,5-Trichlorobenzene	(4)	14.028(0.000)	180	219549	19.192	19.19			1	5
146) 1,2,4-Trichlorobenzene	(4)	14.452(0.000)	180	206413	18.711	18.71			1	5
147) Hexachlorobutadiene	(4)	14.529(0.000)	225	91627	18.262	18.26			2	5
148) Naphthalene	(4)	14.635(0.000)	128	569325	17.937	17.94			1	5
149) 1,2,3-Trichlorobenzene	(4)	14.774(0.000)	180	196620	18.611	18.61			1	5
150) 2-Methylnaphthalene	(4)	15.404(0.000)	142	317029	16.477	16.48			2	5

Total number of targets = 106

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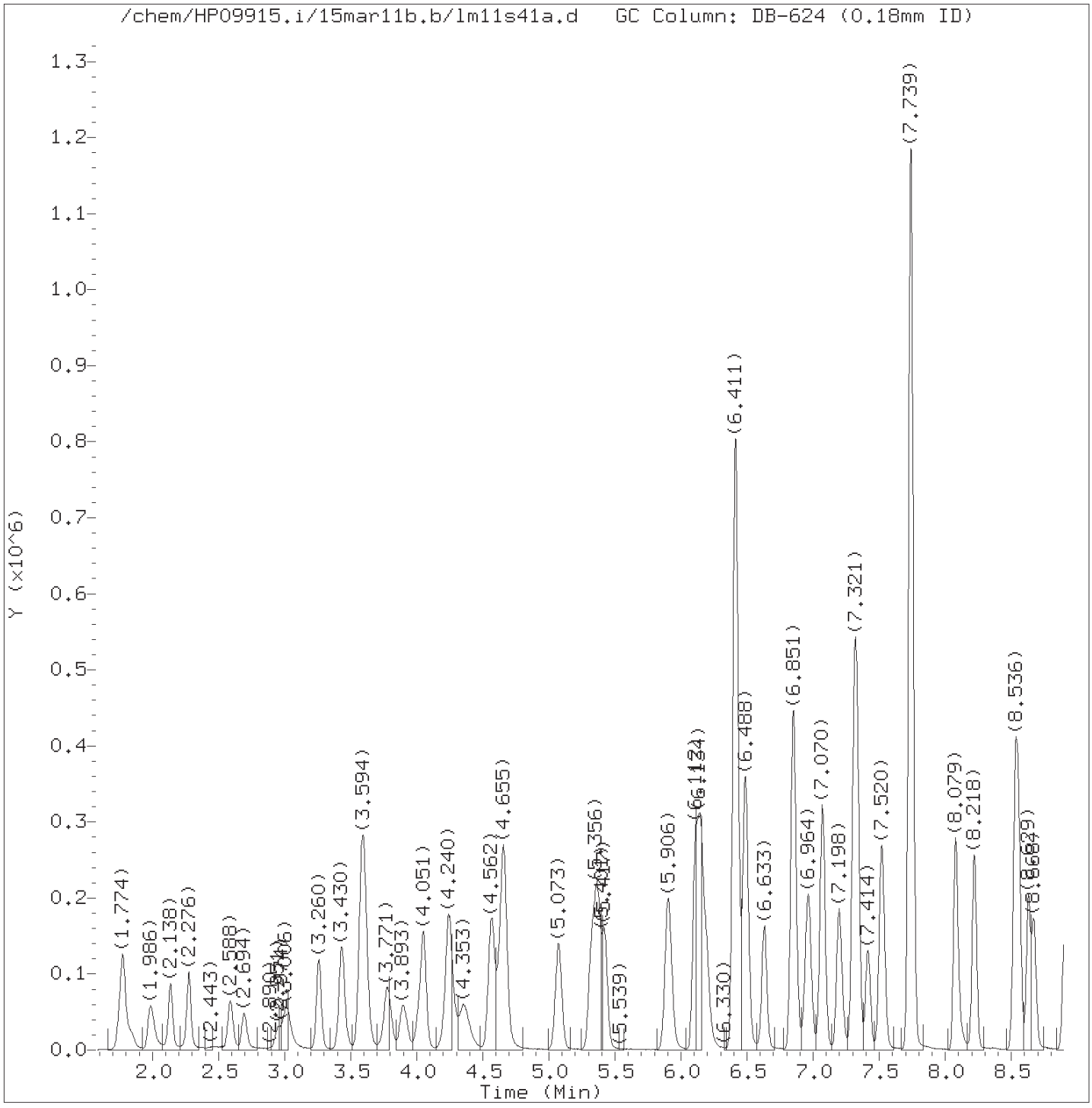
Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:00. Parallax ID: cbs01947



Total Ion Chromatogram (TIC)

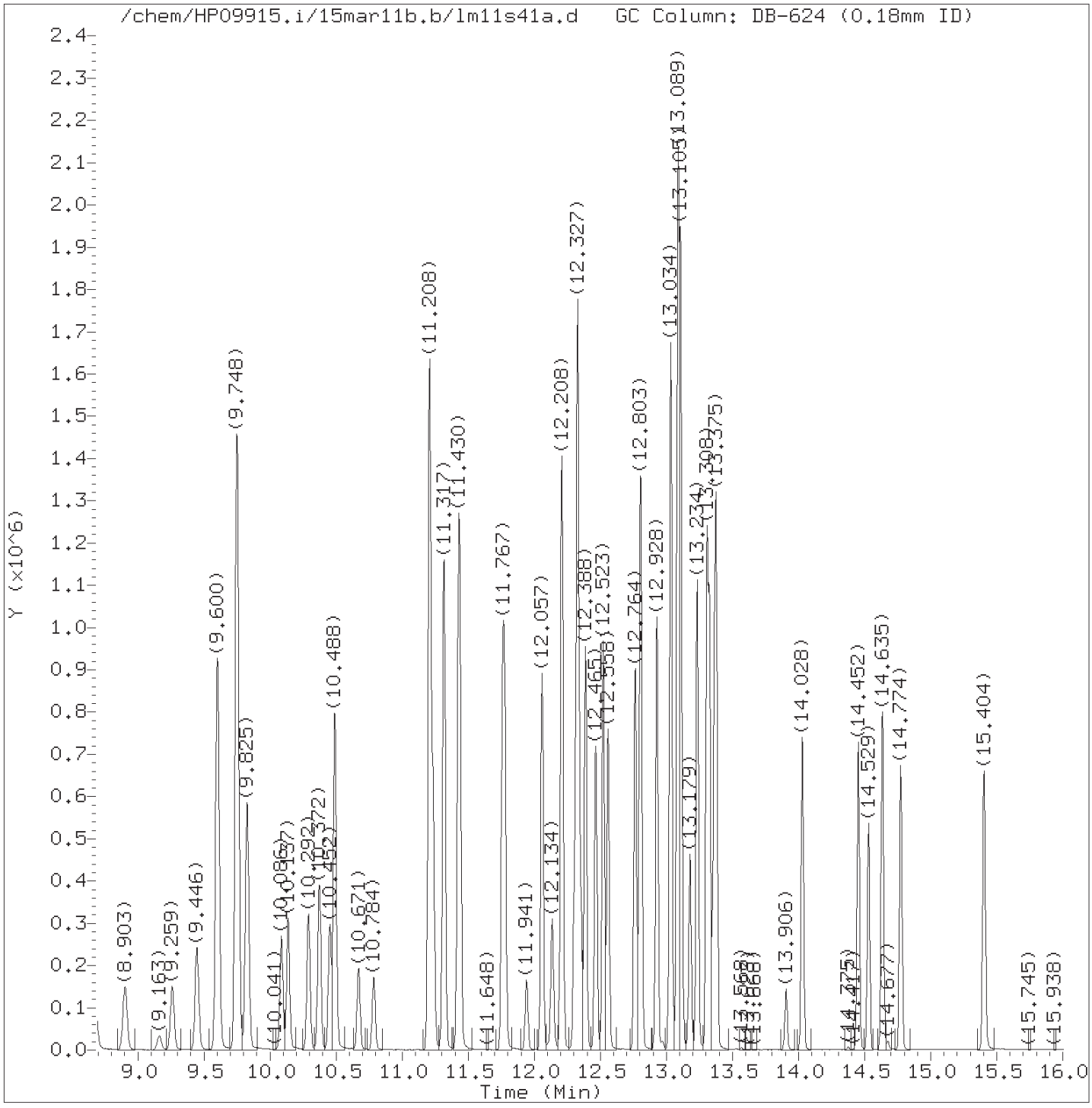
Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Sample Name: LCSL64 Lab Sample ID: LCSL64

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: kas02648



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Sample Name: LCSL64 Lab Sample ID: LCSL64

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Sample Name: LCSL64 Lab Sample ID: LCSL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.986	85	128023	18.995
4) Chloromethane	(2)	2.134	50	121066	16.940
6) Vinyl Chloride	(2)	2.276	62	117040	17.667
8) Bromomethane	(2)	2.588	94	64247	16.254
9) Chloroethane	(2)	2.694	64	64552	18.031
43) 1,2-Dichloroethene (Total)	(2)		96	215236	37.474
12) Trichlorofluoromethane	(2)	3.012	101	141197	19.679
14) Ethyl ether	(2)	3.260	59	101673	19.188
16) Acrolein	(1)	3.433	56	215776	153.729
17) 1,1-Dichloroethene	(2)	3.581	96	74689M	15.541
18) Acetone	(1)	3.597	58	99005	175.054
19) Freon 113	(2)	3.601	101	78880	16.209
21) 2-Propanol	(1)	3.758	45	71094	147.705
22) Methyl Iodide	(2)	3.784	142	140390	16.164
23) Carbon Disulfide	(2)	3.893	76	179119	11.177
27) Methyl Acetate	(2)	4.015	43	105376	19.045
25) Allyl Chloride	(2)	4.054	41	152397	18.458
29)*t-Butyl alcohol-d10	(1)	4.240	65	186041	250.000
28) Methylene Chloride	(2)	4.247	84	105045	17.534
30) t-Butyl alcohol	(1)	4.359	59	157317	198.793
31) Acrylonitrile	(2)	4.562	53	262878	93.115
33) Methyl Tertiary Butyl Ether	(2)	4.642	73	310436	17.543
32) trans-1,2-Dichloroethene	(2)	4.665	96	99988M	18.304
34) n-Hexane	(2)	5.073	57	123947	15.032
36) 1,1-Dichloroethane	(2)	5.318	63	174853	17.363
38) di-Isopropyl ether	(2)	5.369	45	333548	17.558
39) 2-Chloro-1,3-butadiene	(2)	5.427	53	134334	15.705
90) 1,3-Dichloropropene (total)	(3)		100	320156	37.160
40) Ethyl t-butyl ether	(2)	5.903	59	306162	16.718
44) 2-Butanone	(2)	6.112	43	500075	141.864
42) cis-1,2-Dichloroethene	(2)	6.147	96	115248	19.169
45) 2,2-Dichloropropane	(2)	6.157	77	120948	15.870
47) Propionitrile	(1)	6.195	54	161582	161.186
48) Methacrylonitrile	(2)	6.414	67	453536	143.039
49) Bromochloromethane	(2)	6.481	128	62639	21.293
50) Tetrahydrofuran	(1)	6.491	71	90101	111.512
51) Chloroform	(2)	6.629	83	177531	18.581
52)$Dibromofluoromethane	(2)	6.848	113	278597	49.155

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Sample Name: LCSL64 Lab Sample ID: LCSL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
53) 1,1,1-Trichloroethane	(2)	6.858	97	139864	15.430
54) Cyclohexane	(2)	6.961	56	161808	15.854
55) 1,1-Dichloropropene	(2)	7.070	75	138226	18.332
56) Carbon Tetrachloride	(2)	7.073	117	120389	17.818
58) Isobutyl Alcohol	(1)	7.198	41	130512	492.161
57)$1,2-Dichloroethane-d4	(2)	7.311	102	72004	51.318
60) Benzene	(2)	7.330	78	434074	18.543
61) 1,2-Dichloroethane	(2)	7.417	62	141100	19.119
65) t-Amyl methyl ether	(2)	7.520	73	304484	17.233
66)*Fluorobenzene	(2)	7.739	96	1186191	50.000
67) n-Heptane	(2)	7.742	43	148394	17.020
108) Xylene (Total)	(3)		106	641486	60.269
69) n-Butanol	(1)	8.076	56	224740	962.028
71) Trichloroethene	(2)	8.218	95	112411	18.848
72) Methylcyclohexane	(2)	8.533	83	197801	19.110
73) 1,2-Dichloropropane	(2)	8.559	63	115983	18.651
76) Methyl Methacrylate	(2)	8.629	69	92189	17.751
75) 1,4-Dioxane	(1)	8.642	88	40684	509.470
74) Dibromomethane	(2)	8.674	93	72895	18.844
78) Bromodichloromethane	(2)	8.903	83	124659	17.401
79) 2-Nitropropane	(2)	9.160	41	25165	16.074
80) 2-Chloroethyl Vinyl Ether	(2)	9.259	63	79315	17.581
81) cis-1,3-Dichloropropene	(2)	9.446	75	167097	18.371
82) 4-Methyl-2-pentanone	(2)	9.600	43	700917	91.006
83)$Toluene-d8	(3)	9.748	98	1156551	49.751
141) Diethylbenzene (total)	(4)		100	960326	60.020
88) Toluene	(3)	9.825	92	281960	19.441
89) trans-1,3-Dichloropropene	(3)	10.086	75	153059	18.789
91) Ethyl Methacrylate	(3)	10.137	69	168953	18.167
92) 1,1,2-Trichloroethane	(3)	10.292	97	110068	20.058
93) Tetrachloroethene	(3)	10.372	166	125007	20.249
94) 1,3-Dichloropropane	(3)	10.452	76	182340	19.145
96) 2-Hexanone	(3)	10.491	43	505945	90.755
97) Dibromochloromethane	(3)	10.671	129	104618	18.918
99) 1,2-Dibromoethane	(3)	10.787	107	118910	20.201
100)*Chlorobenzene-d5	(3)	11.208	117	892871	50.000
102) Chlorobenzene	(3)	11.234	112	319641	20.081
104) Ethylbenzene	(3)	11.317	91	539869	19.429

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

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Sample Name: LCSL64 Lab Sample ID: LCSL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
103) 1,1,1,2-Tetrachloroethane	(3)	11.317	131	103143	19.832
106) m+p-Xylene	(3)	11.430	106	432572	40.343
107) o-Xylene	(3)	11.761	106	208914	19.925
109) Styrene	(3)	11.777	104	354269	20.176
110) Bromoform	(3)	11.941	173	71561	17.341
111) Isopropylbenzene	(3)	12.057	105	545419	19.441
112) Cyclohexanone	(1)	12.134	55	122038	412.344
114)$4-Bromofluorobenzene	(3)	12.208	95	438598	47.389
116) 1,1,2,2-Tetrachloroethane	(4)	12.301	83	165822	18.849
115) Bromobenzene	(4)	12.324	156	148443	20.790
118) trans-1,4-Dichloro-2-butene	(4)	12.327	53	227287	108.941
117) 1,2,3-Trichloropropane	(4)	12.353	110	49450	19.416
119) n-Propylbenzene	(4)	12.388	91	658402	19.160
120) 2-Chlorotoluene	(4)	12.465	126	132302	19.567
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	475002	19.319
121) 4-Chlorotoluene	(4)	12.558	126	139015	19.739
124) tert-Butylbenzene	(4)	12.764	134	96796	19.123
125) Pentachloroethane	(4)	12.800	167	87201	21.345
126) 1,2,4-Trimethylbenzene	(4)	12.806	105	487954	19.545
127) sec-Butylbenzene	(4)	12.928	105	607959	19.238
129) 1,3-Dichlorobenzene	(4)	13.031	146	280170	20.363
130) p-Isopropyltoluene	(4)	13.034	119	522469	19.199
131)*1,4-Dichlorobenzene-d4	(4)	13.089	152	486361	50.000
133) 1,4-Dichlorobenzene	(4)	13.105	146	292502	20.581
134) 1,2,3-Trimethylbenzene	(4)	13.108	105	524792	20.355
135) Benzyl Chloride	(4)	13.179	91	282188	17.127
136) 1,3-Diethylbenzene	(4)	13.234	119	328712	19.253
137) 1,4-Diethylbenzene	(4)	13.308	119	348981	20.148
139) n-Butylbenzene	(4)	13.327	92	264936	18.687
138) 1,2-Dichlorobenzene	(4)	13.362	146	276235	19.880
140) 1,2-Diethylbenzene	(4)	13.378	119	282633	20.619
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	28484	16.041
144) 1,3,5-Trichlorobenzene	(4)	14.028	180	219549	19.192
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	206413	18.711
147) Hexachlorobutadiene	(4)	14.529	225	91627	18.262
148) Naphthalene	(4)	14.635	128	569325	17.937
149) 1,2,3-Trichlorobenzene	(4)	14.774	180	196620	18.611
150) 2-Methylnaphthalene	(4)	15.404	142	317029	16.477

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

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

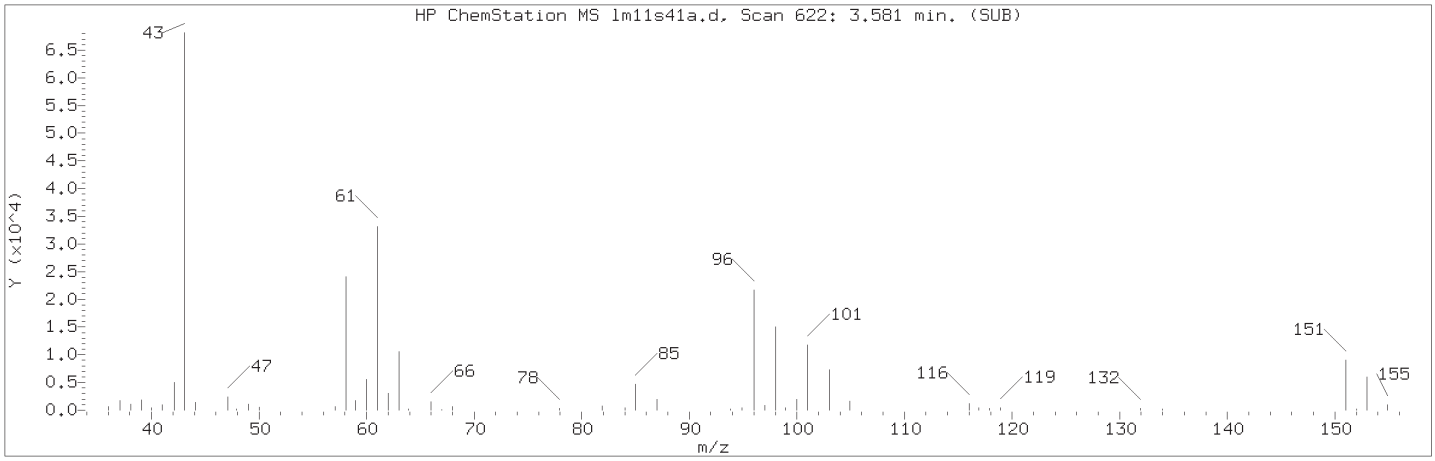
Sample Name: LCSL64 Lab Sample ID: LCSL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)

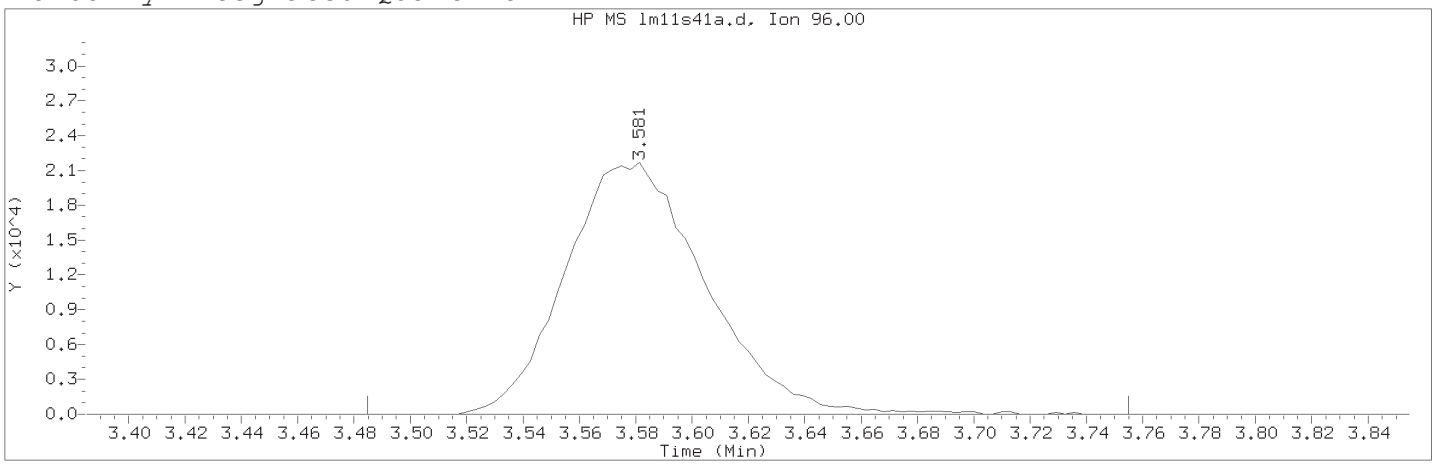
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: kas02648

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Sample Name: LCSL64 Lab Sample ID: LCSL64

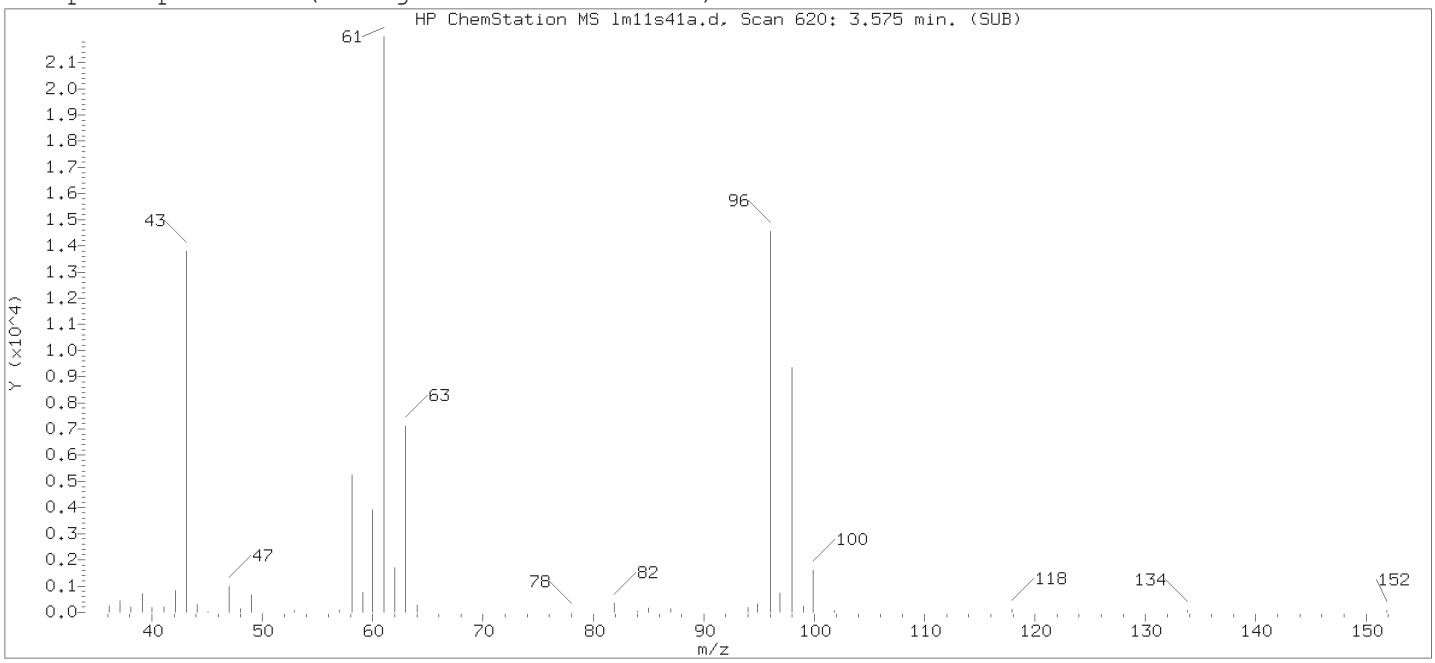
Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 622
Retention Time (minutes): 3.581
Quant Ion : 96.00
Area (flag) : 74689M
On-Column Amount (ng) : 15.5405
Integration start scan : 591 Integration stop scan: 675
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

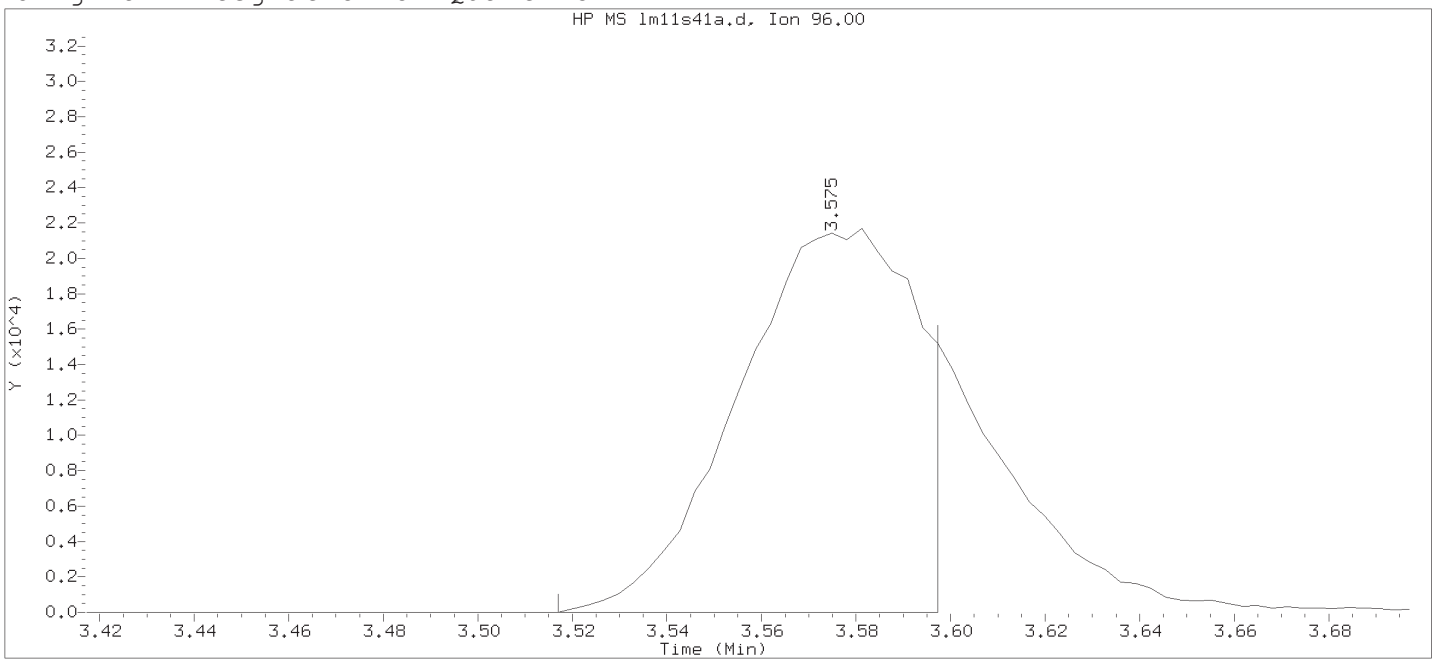
Analyst responsible for change: Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: kas02648

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:00.
Parallax ID: cbs01947

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

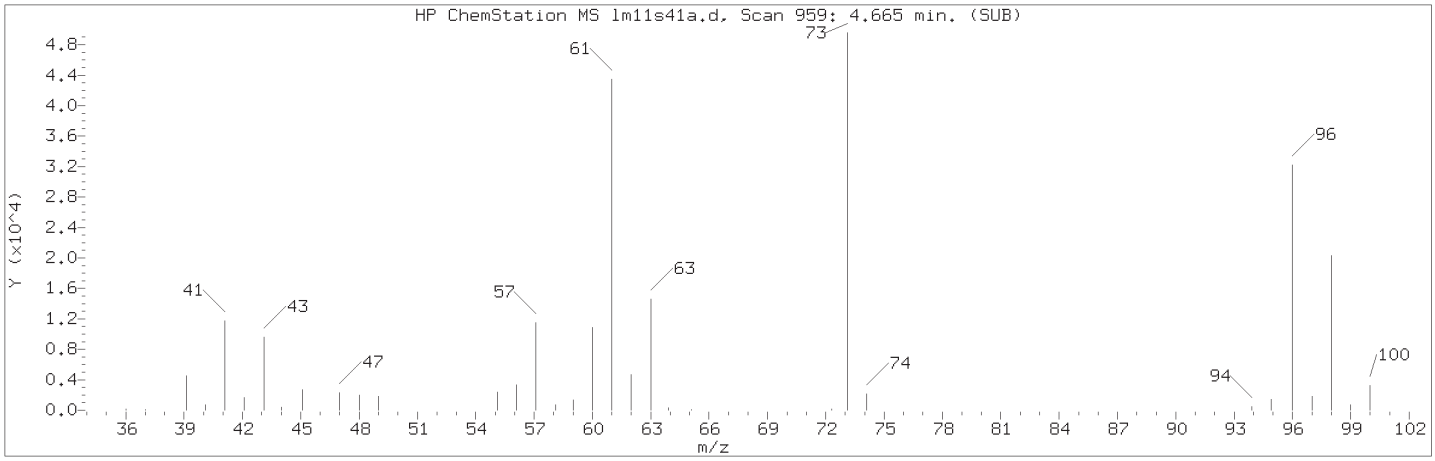
Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: all
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:20 Automation

Sample Name: LCSL64 Lab Sample ID: LCSL64

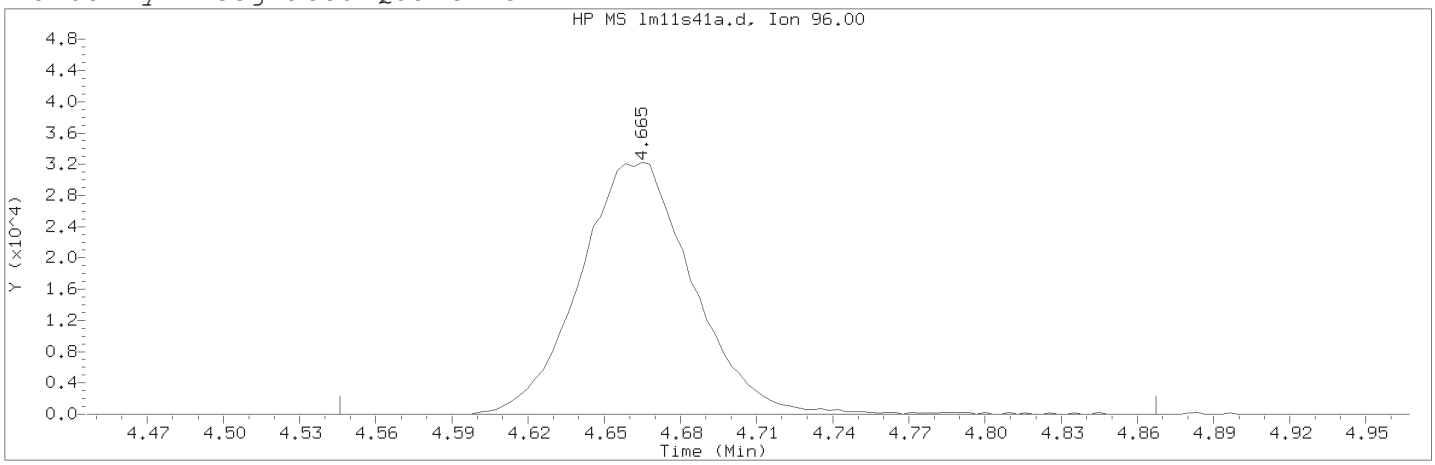
Compound Number : 17
Compound Name : 1,1-Dichloroethene
Scan Number : 620
Retention Time (minutes): 3.575
Quant Ion : 96.00
Area : 56094
On-column Amount (ng) : 11.6715
Integration start scan : 601 Integration stop scan: 626
Y at integration start : 0 Y at integration end: 0

Digitally signed by Kevin A. Sposito on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: KAS02013

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:38 kas02648

Sample Name: LCSL64 Lab Sample ID: LCSL64

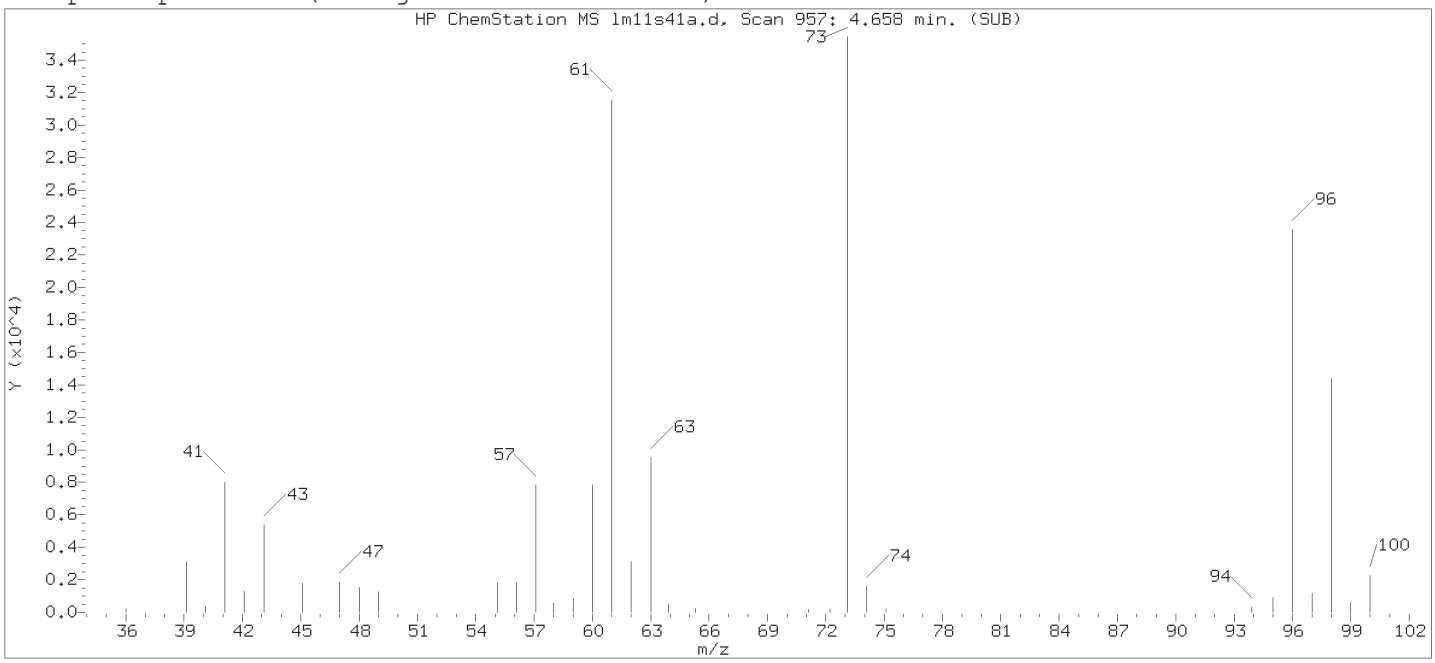
Compound Number : 32
Compound Name : trans-1,2-Dichloroethene
Scan Number : 959
Retention Time (minutes): 4.665
Quant Ion : 96.00
Area (flag) : 99988M
On-Column Amount (ng) : 18.3044
Integration start scan : 921 Integration stop scan: 1021
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

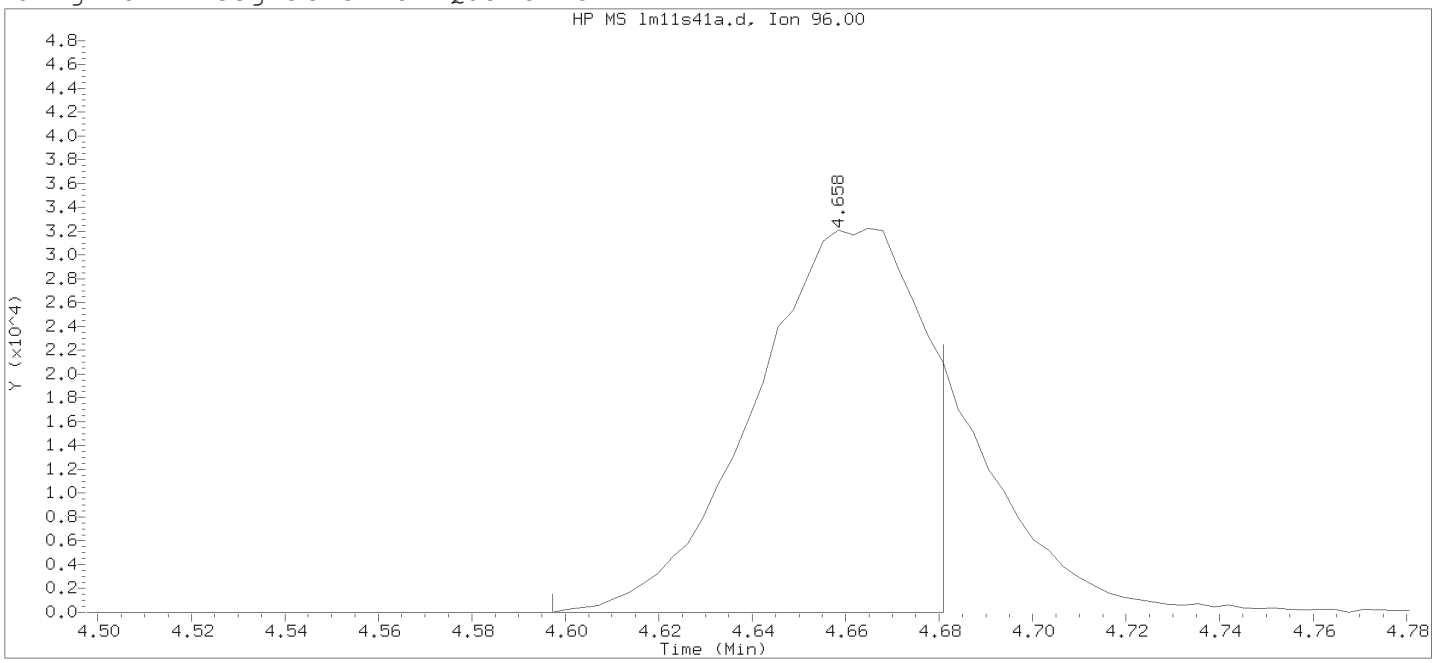
Analyst responsible for change: Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: kas02648

Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:00.
Parallax ID: cbs01947

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/15mar11b.b/lm11s41a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:01 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: all
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:20 Automation

Sample Name: LCSL64 Lab Sample ID: LCSL64

Compound Number : 32
Compound Name : trans-1,2-Dichloroethene
Scan Number : 957
Retention Time (minutes): 4.658
Quant Ion : 96.00
Area : 79600
On-column Amount (ng) : 14.5720
Integration start scan : 937 Integration stop scan: 963
Y at integration start : 0 Y at integration end: 0

Digitally signed by Kevin A. Sposito on 03/11/2015 at 17:39.
Target 3.5 esignature user ID: KAS02013

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCDL64

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCDL64

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s42a.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	19	
74-87-3	Chloromethane	18	
75-01-4	Vinyl Chloride	18	
74-83-9	Bromomethane	16	
75-00-3	Chloroethane	16	
75-69-4	Trichlorofluoromethane	20	
60-29-7	Ethyl ether	19	
107-02-8	Acrolein	150	
75-35-4	1,1-Dichloroethene	16	
67-64-1	Acetone	160	
76-13-1	Freon 113	16	
67-63-0	2-Propanol	150	
74-88-4	Methyl Iodide	16	
75-15-0	Carbon Disulfide	11	
107-05-1	Allyl Chloride	19	
79-20-9	Methyl Acetate	20	
75-09-2	Methylene Chloride	18	
75-65-0	t-Butyl alcohol	200	
107-13-1	Acrylonitrile	97	
156-60-5	trans-1,2-Dichloroethene	18	
1634-04-4	Methyl Tertiary Butyl Ether	18	
110-54-3	n-Hexane	15	
75-34-3	1,1-Dichloroethane	18	
108-20-3	di-Isopropyl ether	18	
126-99-8	2-Chloro-1,3-butadiene	16	
637-92-3	Ethyl t-butyl ether	17	
156-59-2	cis-1,2-Dichloroethene	20	
540-59-0	1,2-Dichloroethene (Total)	38	
78-93-3	2-Butanone	150	
594-20-7	2,2-Dichloropropane	16	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCDL64

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCDL64

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s42a.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
107-12-0	Propionitrile	160	
126-98-7	Methacrylonitrile	150	
74-97-5	Bromochloromethane	22	
109-99-9	Tetrahydrofuran	110	
67-66-3	Chloroform	19	
71-55-6	1,1,1-Trichloroethane	16	
110-82-7	Cyclohexane	16	
563-58-6	1,1-Dichloropropene	19	
56-23-5	Carbon Tetrachloride	18	
78-83-1	Isobutyl Alcohol	500	
71-43-2	Benzene	19	
107-06-2	1,2-Dichloroethane	19	
994-05-8	t-Amyl methyl ether	18	
142-82-5	n-Heptane	17	
71-36-3	n-Butanol	1000	
79-01-6	Trichloroethene	19	
108-87-2	Methylcyclohexane	19	
78-87-5	1,2-Dichloropropane	19	
74-95-3	Dibromomethane	19	
123-91-1	1,4-Dioxane	580	
80-62-6	Methyl Methacrylate	19	
75-27-4	Bromodichloromethane	18	
79-46-9	2-Nitropropane	17	
110-75-8	2-Chloroethyl Vinyl Ether	18	
10061-01-5	cis-1,3-Dichloropropene	19	
108-10-1	4-Methyl-2-pentanone	95	
108-88-3	Toluene	20	
10061-02-6	trans-1,3-Dichloropropene	19	
542-75-6	1,3-Dichloropropene (total)	38	
97-63-2	Ethyl Methacrylate	19	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCDL64

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCDL64

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s42a.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	20	
127-18-4	Tetrachloroethene	21	
142-28-9	1,3-Dichloropropane	19	
591-78-6	2-Hexanone	95	
124-48-1	Dibromochloromethane	19	
106-93-4	1,2-Dibromoethane	21	
108-90-7	Chlorobenzene	20	
630-20-6	1,1,1,2-Tetrachloroethane	20	
100-41-4	Ethylbenzene	20	
179601-23-1	m+p-Xylene	41	
95-47-6	o-Xylene	20	
1330-20-7	Xylene (Total)	61	
100-42-5	Styrene	20	
75-25-2	Bromoform	18	
98-82-8	Isopropylbenzene	20	
108-94-1	Cyclohexanone	370	
108-86-1	Bromobenzene	21	
79-34-5	1,1,2,2-Tetrachloroethane	20	
96-18-4	1,2,3-Trichloropropane	20	
110-57-6	trans-1,4-Dichloro-2-butene	110	
103-65-1	n-Propylbenzene	19	
95-49-8	2-Chlorotoluene	20	
106-43-4	4-Chlorotoluene	20	
108-67-8	1,3,5-Trimethylbenzene	20	
98-06-6	tert-Butylbenzene	20	
76-01-7	Pentachloroethane	21	
95-63-6	1,2,4-Trimethylbenzene	20	
135-98-8	sec-Butylbenzene	20	
541-73-1	1,3-Dichlorobenzene	21	
99-87-6	p-Isopropyltoluene	19	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCDL64

Lab Name: Lancaster Laboratories Contract:_____

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

Matrix: (soil/water) WATER Lab Sample ID: LCDL64

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/15mar11b.b/lm11s42a.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 03/11/15

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
106-46-7	1,4-Dichlorobenzene	21	
526-73-8	1,2,3-Trimethylbenzene	21	
100-44-7	Benzyl Chloride	18	
141-93-5	1,3-Diethylbenzene	20	
105-05-5	1,4-Diethylbenzene	20	
95-50-1	1,2-Dichlorobenzene	20	
104-51-8	n-Butylbenzene	19	
135-01-3	1,2-Diethylbenzene	21	
25340-17-4	Diethylbenzene (total)	61	
96-12-8	1,2-Dibromo-3-chloropropane	17	
108-70-3	1,3,5-Trichlorobenzene	19	
120-82-1	1,2,4-Trichlorobenzene	19	
87-68-3	Hexachlorobutadiene	19	
91-20-3	Naphthalene	19	
87-61-6	1,2,3-Trichlorobenzene	19	
91-57-6	2-Methylnaphthalene	18	

Data file: /chem/HP09915.i/15mar11b.b/lm11s42a.d Injection date and time: **11-MAR-2015 17:24**
Data file Sample Info. Line: LCDL64;LCDL64;1;3;LCSD;;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
29) t-Butyl alcohol-d10	4.244	(-0.026)	828	65	199621	(-17)	250.00	
66) Fluorobenzene	7.739	(-0.003)	1915	96	1177474	(-14)	50.00	
100) Chlorobenzene-d5	11.208	(0.000)	2994	117	895892	(-12)	50.00	
131) 1,4-Dichlorobenzene-d4	13.086	(0.000)	3578	152	484745	(-12)	50.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
52) Dibromofluoromethane	(2)	6.851	(-0.001)	113	276515	49.149	98%		80 - 116
57) 1,2-Dichloroethane-d4	(2)	7.308	(0.000)	102	70965	50.952	102%		77 - 113
83) Toluene-d8	(3)	9.748	(0.000)	98	1148117	49.221	98%		80 - 113
114) 4-Bromofluorobenzene	(3)	12.208	(0.000)	95	435515	46.898	94%		78 - 113

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
3) Dichlorodifluoromethane	(2)	1.990	(-0.000)	85	124782	18.651	18.65			0.5	1
4) Chloromethane	(2)	2.141	(0.000)	50	124910	17.607	17.61			0.5	1
6) Vinyl Chloride	(2)	2.282	(0.000)	62	117903	17.929	17.93			0.5	1
8) Bromomethane	(2)	2.591	(0.001)	94	63745	16.246	16.25			0.5	1
9) Chloroethane	(2)	2.697	(0.000)	64	57543	16.192	16.19			0.5	1
12) Trichlorofluoromethane	(2)	3.016	(0.000)	101	139375	19.569	19.57			0.5	1
14) Ethyl ether	(2)	3.260	(-0.000)	59	102097	19.410	19.41			2	5
16) Acrolein	(1)	3.440	(0.001)	56	222287	147.595	147.59			40	100
17) 1,1-Dichloroethene	(2)	3.578	(-0.000)	96	76237	15.980	15.98			0.5	1
18) Acetone	(1)	3.597	(0.002)	58	99331	163.682	163.68			6	20
19) Freon 113	(2)	3.607	(-0.000)	101	76801	15.899	15.90			2	10
21) 2-Propanol	(1)	3.765	(0.000)	45	79373	153.687	153.69			50	100
22) Methyl Iodide	(2)	3.787	(-0.001)	142	140561	16.303	16.30			0.5	1
23) Carbon Disulfide	(2)	3.903	(-0.001)	76	178908	11.246	11.25			1	5
25) Allyl Chloride	(2)	4.057	(-0.001)	41	155102	18.925	18.92			1	5
27) Methyl Acetate	(2)	4.022	(-0.001)	43	108890	19.825	19.83			1	5
28) Methylene Chloride	(2)	4.250	(-0.001)	84	106188	17.866	17.87			2	4
30) t-Butyl alcohol	(1)	4.363	(0.003)	59	172384	203.013	203.01			5	20
31) Acrylonitrile	(2)	4.572	(-0.001)	53	272119	97.102	97.10			4	20
32) trans-1,2-Dichloroethene	(2)	4.668	(-0.001)	96	99569	18.363	18.36			0.5	1
33) Methyl Tertiary Butyl Ether	(2)	4.649	(-0.000)	73	319216	18.173	18.17			0.5	1
34) n-Hexane	(2)	5.073	(-0.000)	57	126197	15.418	15.42			2	5
36) 1,1-Dichloroethane	(2)	5.324	(-0.001)	63	177534	17.759	17.76			0.5	1
38) di-Isopropyl ether	(2)	5.366	(-0.000)	45	339174	17.987	17.99			0.5	1
39) 2-Chloro-1,3-butadiene	(2)	5.424	(-0.000)	53	136294	16.052	16.05			1	5
40) Ethyl t-butyl ether	(2)	5.906	(-0.000)	59	315144	17.336	17.34			0.5	1
42) cis-1,2-Dichloroethene	(2)	6.150	(-0.000)	96	116563	19.532	19.53			0.5	1
43) 1,2-Dichloroethene (Total)	(2)			96	216132	37.894	37.89			0.5	1
44) 2-Butanone	(2)	6.112	(-0.000)	43	520330	148.703	148.70			3	10
45) 2,2-Dichloropropane	(2)	6.166	(-0.000)	77	124184	16.416	16.42			0.5	1
47) Propionitrile	(1)	6.199	(0.005)	54	168911	157.034	157.03			30	100

Digitally signed by Kevin A. Sposito on 03/11/2015 at 17:44. Target 3.5 esignature user ID: kas02648

Data file: /chem/HP09915.i/15mar11b.b/lm11s42a.d Injection date and time: **11-MAR-2015 17:24**
Data file Sample Info. Line: LCDL64;LCDL64;1;3;LCSD;;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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 (in sample)	LOQ
48) Methacrylonitrile	(2)	6.417(-0.000)	67	468601	148.885	148.88			10	50
49) Bromochloromethane	(2)	6.488(-0.000)	128	63097	21.607	21.61			1	5
50) Tetrahydrofuran	(1)	6.494(0.007)	71	94255	108.717	108.72			4	10
51) Chloroform	(2)	6.630(-0.000)	83	180015	18.981	18.98			0.5	1
53) 1,1,1-Trichloroethane	(2)	6.854(0.000)	97	143496	15.948	15.95			0.5	1
54) Cyclohexane	(2)	6.964(-0.000)	56	161157	15.907	15.91			2	5
55) 1,1-Dichloropropene	(2)	7.070(-0.000)	75	140099	18.718	18.72			1	5
56) Carbon Tetrachloride	(2)	7.070(0.000)	117	121598	18.130	18.13			0.5	1
58) Isobutyl Alcohol	(1)	7.199(0.008)	41	142203	499.767	499.77			100	250
60) Benzene	(2)	7.334(-0.000)	78	442335	19.036	19.04			0.5	1
61) 1,2-Dichloroethane	(2)	7.417(-0.000)	62	140994	19.246	19.25			0.5	1
65) t-Amyl methyl ether	(2)	7.520(0.000)	73	312403	17.813	17.81			0.5	1
67) n-Heptane	(2)	7.745(-0.000)	43	147974	17.098	17.10			2	5
69) n-Butanol	(1)	8.080(0.010)	56	250361	998.795	998.80			100	250
71) Trichloroethene	(2)	8.221(0.000)	95	113928	19.243	19.24			0.5	1
72) Methylcyclohexane	(2)	8.533(0.000)	83	198550	19.325	19.32			1	5
73) 1,2-Dichloropropane	(2)	8.559(0.000)	63	116526	18.877	18.88			0.5	1
74) Dibromomethane	(2)	8.671(0.000)	93	74134	19.306	19.31			0.5	1
75) 1,4-Dioxane	(1)	8.646(0.010)	88	49614	579.031	579.03			70	250
76) Methyl Methacrylate	(2)	8.629(-0.000)	69	95424	18.510	18.51			1	5
78) Bromodichloromethane	(2)	8.906(-0.000)	83	125266	17.615	17.62			0.5	1
79) 2-Nitropropane	(2)	9.160(0.000)	41	26683	16.928	16.93			2	10
80) 2-Chloroethyl Vinyl Ether	(2)	9.260(0.000)	63	82397	18.400	18.40			2	10
81) cis-1,3-Dichloropropene	(2)	9.446(0.000)	75	170621	18.898	18.90			0.5	1
82) 4-Methyl-2-pentanone	(2)	9.604(0.000)	43	727305	95.131	95.13			3	10
88) Toluene	(3)	9.826(-0.000)	92	288503	19.826	19.83			0.5	1
89) trans-1,3-Dichloropropene	(3)	10.086(-0.000)	75	156555	19.153	19.15			0.5	1
90) 1,3-Dichloropropene (total)	(3)		100	327176	38.051	38.05			1	5
91) Ethyl Methacrylate	(3)	10.137(-0.000)	69	174543	18.705	18.70			1	5
92) 1,1,2-Trichloroethane	(3)	10.292(-0.000)	97	110897	20.141	20.14			0.5	1
93) Tetrachloroethene	(3)	10.375(-0.000)	166	127056	20.511	20.51			0.5	1
94) 1,3-Dichloropropane	(3)	10.452(-0.000)	76	186153	19.479	19.48			0.5	1
96) 2-Hexanone	(3)	10.491(-0.000)	43	532103	95.125	95.12			3	10
97) Dibromochloromethane	(3)	10.668(-0.000)	129	106391	19.174	19.17			0.5	1
99) 1,2-Dibromoethane	(3)	10.787(-0.000)	107	121322	20.541	20.54			0.5	1
102) Chlorobenzene	(3)	11.234(-0.000)	112	324755	20.333	20.33			0.5	1
103) 1,1,1,2-Tetrachloroethane	(3)	11.314(0.000)	131	103139	19.764	19.76			0.5	1
104) Ethylbenzene	(3)	11.317(0.000)	91	546503	19.601	19.60			0.5	1
106) m+p-Xylene	(3)	11.430(0.000)	106	436978	40.617	40.62			0.5	1
107) o-Xylene	(3)	11.761(-0.000)	106	212438	20.193	20.19			0.5	1
108) Xylene (Total)	(3)		106	649416	60.810	60.81			0.5	1
109) Styrene	(3)	11.777(-0.000)	104	360137	20.441	20.44			1	5
110) Bromoform	(3)	11.941(0.000)	173	72902	17.607	17.61			0.5	4
111) Isopropylbenzene	(3)	12.057(0.000)	105	554269	19.690	19.69			1	5
112) Cyclohexanone	(1)	12.134(0.017)	55	118723	373.854	373.85			25	100
115) Bromobenzene	(4)	12.324(-0.000)	156	149267	20.975	20.98			1	5
116) 1,1,2,2-Tetrachloroethane	(4)	12.304(-0.000)	83	173749	19.816	19.82			0.5	1
117) 1,2,3-Trichloropropane	(4)	12.353(-0.000)	110	50815	20.019	20.02			1	5
118) trans-1,4-Dichloro-2-butene	(4)	12.330(-0.000)	53	237652	114.289	114.29			15	50
119) n-Propylbenzene	(4)	12.388(-0.000)	91	667046	19.476	19.48			1	5
120) 2-Chlorotoluene	(4)	12.465(-0.000)	126	133523	19.814	19.81			1	5
121) 4-Chlorotoluene	(4)	12.558(-0.000)	126	140694	20.044	20.04			1	5
122) 1,3,5-Trimethylbenzene	(4)	12.523(-0.000)	105	483521	19.731	19.73			1	5
124) tert-Butylbenzene	(4)	12.764(-0.000)	134	99300	19.683	19.68			1	5

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Data file: /chem/HP09915.i/15mar11b.b/lm11s42a.d Injection date and time: **11-MAR-2015 17:24**
Data file Sample Info. Line: LCDL64;LCDL64;1;3;LCSD;;;;lm11b05; Instrument ID: **HP09915.i** Batch: **L150702AA**
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Blank Data file reference: **/chem/HP09915.i/15mar11b.b/lm11b05.d**

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: **8260W-FBN1C**
Calibration date and time (Last Method Edit): 11-MAR-2015 16:42
Mid Level Daily Calibration Standard Reference: **/chem/HP09915.i/15mar11b.b/lm11c01.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 (in sample)	LOQ
125) Pentachloroethane	(4)	12.800(-0.000)	167	86815	21.322	21.32			1	5
126) 1,2,4-Trimethylbenzene	(4)	12.806(-0.000)	105	495612	19.918	19.92			1	5
127) sec-Butylbenzene	(4)	12.928(-0.000)	105	616987	19.588	19.59			1	5
129) 1,3-Dichlorobenzene	(4)	13.031(-0.000)	146	283541	20.677	20.68			1	5
130) p-Isopropyltoluene	(4)	13.034(-0.000)	119	528392	19.481	19.48			1	5
133) 1,4-Dichlorobenzene	(4)	13.105(-0.000)	146	296779	20.951	20.95			1	5
134) 1,2,3-Trimethylbenzene	(4)	13.112(-0.000)	105	528023	20.549	20.55			1	5
135) Benzyl Chloride	(4)	13.179(0.000)	91	292775	17.829	17.83			1	5
136) 1,3-Diethylbenzene	(4)	13.234(0.000)	119	331850	19.502	19.50			1	5
137) 1,4-Diethylbenzene	(4)	13.308(-0.000)	119	353493	20.476	20.48			1	5
138) 1,2-Dichlorobenzene	(4)	13.362(-0.000)	146	283264	20.454	20.45			1	5
139) n-Butylbenzene	(4)	13.327(0.000)	92	266676	18.873	18.87			1	5
140) 1,2-Diethylbenzene	(4)	13.378(-0.000)	119	283730	20.768	20.77			1	5
141) Diethylbenzene (total)	(4)		100	969073	60.746	60.75			1	5
142) 1,2-Dibromo-3-chloropropane	(4)	13.906(0.000)	75	30019	16.961	16.96			2	5
144) 1,3,5-Trichlorobenzene	(4)	14.028(0.000)	180	222220	19.480	19.48			1	5
146) 1,2,4-Trichlorobenzene	(4)	14.452(0.000)	180	209274	19.022	19.02			1	5
147) Hexachlorobutadiene	(4)	14.533(-0.000)	225	93386	18.640	18.64			2	5
148) Naphthalene	(4)	14.632(0.000)	128	594769	18.801	18.80			1	5
149) 1,2,3-Trichlorobenzene	(4)	14.774(0.000)	180	200158	18.996	19.00			1	5
150) 2-Methylnaphthalene	(4)	15.404(0.000)	142	350409	18.051	18.05			2	5

Total number of targets = 106

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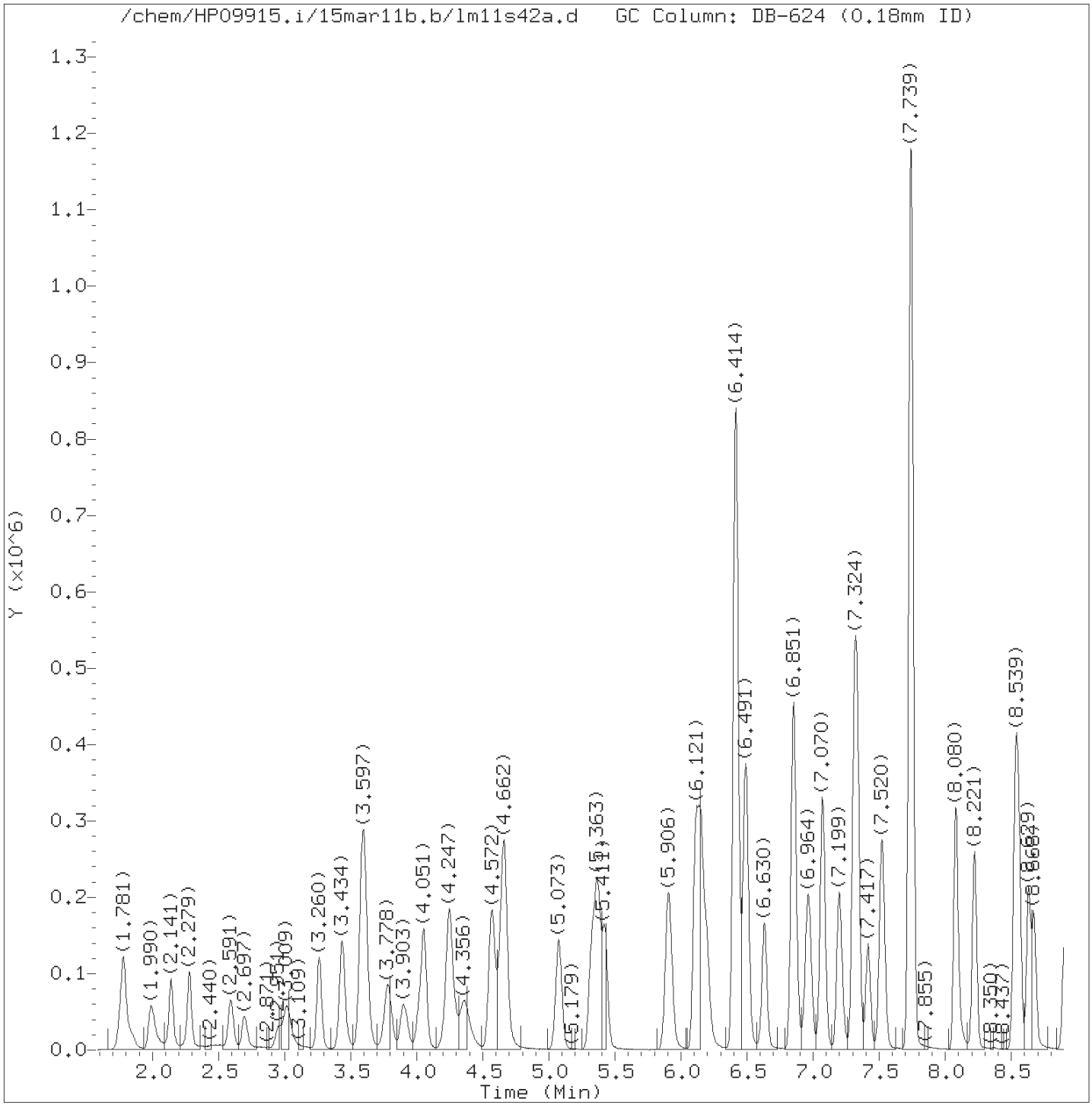
Secondary review performed and digitally signed by Chelsea B. Stong on 03/12/2015 at 14:00. Parallax ID: cbs01947



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s42a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:24 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Sample Name: LCDL64 Lab Sample ID: LCDL64

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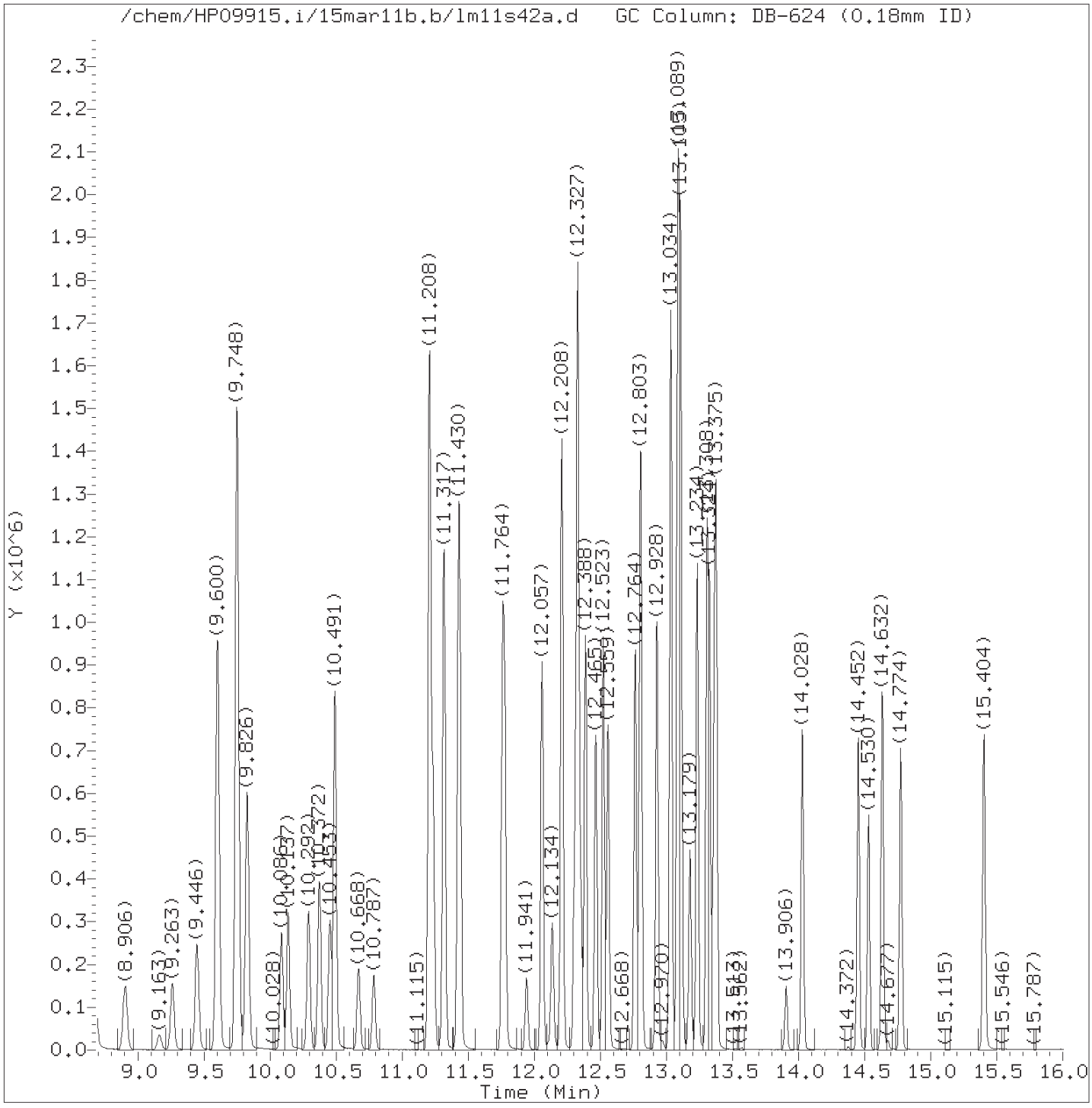
on 03/11/2015 at 17:44.
Target 3.5 esignature user ID: kas02648



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s42a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:24 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Sample Name: LCDL64 Lab Sample ID: LCDL64

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:44.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s42a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:24 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Sample Name: LCDL64 Lab Sample ID: LCDL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
3) Dichlorodifluoromethane	(2)	1.990	85	124782	18.651
4) Chloromethane	(2)	2.141	50	124910	17.607
6) Vinyl Chloride	(2)	2.282	62	117903	17.929
8) Bromomethane	(2)	2.591	94	63745	16.246
9) Chloroethane	(2)	2.697	64	57543	16.192
43) 1,2-Dichloroethene (Total)	(2)		96	216132	37.894
12) Trichlorofluoromethane	(2)	3.015	101	139375	19.569
14) Ethyl ether	(2)	3.260	59	102097	19.410
16) Acrolein	(1)	3.440	56	222287	147.595
17) 1,1-Dichloroethene	(2)	3.578	96	76237	15.980
18) Acetone	(1)	3.597	58	99331	163.682
19) Freon 113	(2)	3.607	101	76801	15.899
21) 2-Propanol	(1)	3.765	45	79373	153.687
22) Methyl Iodide	(2)	3.787	142	140561	16.303
23) Carbon Disulfide	(2)	3.903	76	178908	11.246
27) Methyl Acetate	(2)	4.022	43	108890	19.825
25) Allyl Chloride	(2)	4.057	41	155102	18.925
29)*t-Butyl alcohol-d10	(1)	4.244	65	199621	250.000
28) Methylene Chloride	(2)	4.250	84	106188	17.866
30) t-Butyl alcohol	(1)	4.363	59	172384	203.013
31) Acrylonitrile	(2)	4.572	53	272119	97.102
33) Methyl Tertiary Butyl Ether	(2)	4.649	73	319216	18.173
32) trans-1,2-Dichloroethene	(2)	4.668	96	99569	18.363
34) n-Hexane	(2)	5.073	57	126197	15.418
36) 1,1-Dichloroethane	(2)	5.324	63	177534	17.759
38) di-Isopropyl ether	(2)	5.366	45	339174	17.987
39) 2-Chloro-1,3-butadiene	(2)	5.424	53	136294	16.052
90) 1,3-Dichloropropene (total)	(3)		100	327176	38.051
40) Ethyl t-butyl ether	(2)	5.906	59	315144	17.336
44) 2-Butanone	(2)	6.112	43	520330	148.703
42) cis-1,2-Dichloroethene	(2)	6.150	96	116563	19.532
45) 2,2-Dichloropropane	(2)	6.167	77	124184	16.416
47) Propionitrile	(1)	6.199	54	168911	157.034
48) Methacrylonitrile	(2)	6.417	67	468601	148.885
49) Bromochloromethane	(2)	6.488	128	63097	21.607
50) Tetrahydrofuran	(1)	6.494	71	94255	108.717
51) Chloroform	(2)	6.630	83	180015	18.981
52)$Dibromofluoromethane	(2)	6.851	113	276515	49.149

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

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on 03/11/2015 at 17:44.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s42a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:24 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Sample Name: LCDL64 Lab Sample ID: LCDL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
53) 1,1,1-Trichloroethane	(2)	6.855	97	143496	15.948
54) Cyclohexane	(2)	6.964	56	161157	15.907
56) Carbon Tetrachloride	(2)	7.070	117	121598	18.130
55) 1,1-Dichloropropene	(2)	7.070	75	140099	18.718
58) Isobutyl Alcohol	(1)	7.199	41	142203	499.767
57)$1,2-Dichloroethane-d4	(2)	7.308	102	70965	50.952
60) Benzene	(2)	7.334	78	442335	19.036
61) 1,2-Dichloroethane	(2)	7.417	62	140994	19.246
65) t-Amyl methyl ether	(2)	7.520	73	312403	17.813
66)*Fluorobenzene	(2)	7.739	96	1177474	50.000
67) n-Heptane	(2)	7.745	43	147974	17.098
108) Xylene (Total)	(3)		106	649416	60.810
69) n-Butanol	(1)	8.080	56	250361	998.795
71) Trichloroethene	(2)	8.221	95	113928	19.243
72) Methylcyclohexane	(2)	8.533	83	198550	19.325
73) 1,2-Dichloropropane	(2)	8.559	63	116526	18.877
76) Methyl Methacrylate	(2)	8.629	69	95424	18.510
75) 1,4-Dioxane	(1)	8.646	88	49614	579.031
74) Dibromomethane	(2)	8.671	93	74134	19.306
78) Bromodichloromethane	(2)	8.906	83	125266	17.615
79) 2-Nitropropane	(2)	9.160	41	26683	16.928
80) 2-Chloroethyl Vinyl Ether	(2)	9.260	63	82397	18.400
81) cis-1,3-Dichloropropene	(2)	9.446	75	170621	18.898
82) 4-Methyl-2-pentanone	(2)	9.604	43	727305	95.131
83)$Toluene-d8	(3)	9.748	98	1148117	49.221
141) Diethylbenzene (total)	(4)		100	969073	60.746
88) Toluene	(3)	9.826	92	288503	19.826
89) trans-1,3-Dichloropropene	(3)	10.086	75	156555	19.153
91) Ethyl Methacrylate	(3)	10.137	69	174543	18.705
92) 1,1,2-Trichloroethane	(3)	10.292	97	110897	20.141
93) Tetrachloroethene	(3)	10.375	166	127056	20.511
94) 1,3-Dichloropropane	(3)	10.453	76	186153	19.479
96) 2-Hexanone	(3)	10.491	43	532103	95.125
97) Dibromochloromethane	(3)	10.668	129	106391	19.174
99) 1,2-Dibromoethane	(3)	10.787	107	121322	20.541
100)*Chlorobenzene-d5	(3)	11.208	117	895892	50.000
102) Chlorobenzene	(3)	11.234	112	324755	20.333
103) 1,1,1,2-Tetrachloroethane	(3)	11.314	131	103139	19.764

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

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on 03/11/2015 at 17:44.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s42a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:24 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Sample Name: LCDL64 Lab Sample ID: LCDL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
104) Ethylbenzene	(3)	11.317	91	546503	19.601
106) m+p-Xylene	(3)	11.430	106	436978	40.617
107) o-Xylene	(3)	11.761	106	212438	20.193
109) Styrene	(3)	11.777	104	360137	20.441
110) Bromoform	(3)	11.941	173	72902	17.607
111) Isopropylbenzene	(3)	12.057	105	554269	19.690
112) Cyclohexanone	(1)	12.134	55	118723	373.854
114)$4-Bromofluorobenzene	(3)	12.208	95	435515	46.898
116) 1,1,2,2-Tetrachloroethane	(4)	12.305	83	173749	19.816
115) Bromobenzene	(4)	12.324	156	149267	20.975
118) trans-1,4-Dichloro-2-butene	(4)	12.330	53	237652	114.289
117) 1,2,3-Trichloropropane	(4)	12.353	110	50815	20.019
119) n-Propylbenzene	(4)	12.388	91	667046	19.476
120) 2-Chlorotoluene	(4)	12.465	126	133523	19.814
122) 1,3,5-Trimethylbenzene	(4)	12.523	105	483521	19.731
121) 4-Chlorotoluene	(4)	12.559	126	140694	20.044
124) tert-Butylbenzene	(4)	12.764	134	99300	19.683
125) Pentachloroethane	(4)	12.800	167	86815	21.322
126) 1,2,4-Trimethylbenzene	(4)	12.806	105	495612	19.918
127) sec-Butylbenzene	(4)	12.928	105	616987	19.588
129) 1,3-Dichlorobenzene	(4)	13.031	146	283541	20.677
130) p-Isopropyltoluene	(4)	13.034	119	528392	19.481
131)*1,4-Dichlorobenzene-d4	(4)	13.086	152	484745	50.000
133) 1,4-Dichlorobenzene	(4)	13.105	146	296779	20.951
134) 1,2,3-Trimethylbenzene	(4)	13.112	105	528023	20.549
135) Benzyl Chloride	(4)	13.179	91	292775	17.829
136) 1,3-Diethylbenzene	(4)	13.234	119	331850	19.502
137) 1,4-Diethylbenzene	(4)	13.308	119	353493	20.476
139) n-Butylbenzene	(4)	13.327	92	266676	18.873
138) 1,2-Dichlorobenzene	(4)	13.362	146	283264	20.454
140) 1,2-Diethylbenzene	(4)	13.378	119	283730	20.768
142) 1,2-Dibromo-3-chloropropane	(4)	13.906	75	30019	16.961
144) 1,3,5-Trichlorobenzene	(4)	14.028	180	222220	19.480
146) 1,2,4-Trichlorobenzene	(4)	14.452	180	209274	19.022
147) Hexachlorobutadiene	(4)	14.533	225	93386	18.640
148) Naphthalene	(4)	14.632	128	594769	18.801
149) 1,2,3-Trichlorobenzene	(4)	14.774	180	200158	18.996
150) 2-Methylnaphthalene	(4)	15.404	142	350409	18.051

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

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:44.
Target 3.5 esignature user ID: kas02648

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/15mar11b.b/lm11s42a.d Instrument ID: HP09915.i
Injection date and time: 11-MAR-2015 17:24 Analyst ID: ADS01731

Method used: /chem/HP09915.i/15mar11b.b/m8260c5.m Sublist used: 8260W-FBN1C
Calibration date and time: 11-MAR-2015 16:42
Date, time and analyst ID of latest file update: 11-Mar-2015 17:43 kas02648

Sample Name: LCDL64 Lab Sample ID: LCDL64

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)

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

Digitally signed by Kevin A. Sposito
on 03/11/2015 at 17:44.
Target 3.5 esignature user ID: kas02648

APPENDIX F
GROUND WATER SAMPLING DATA USABILITY SUMMARY REPORT

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

April 15, 2015

Mark Zunich
Reliance Environmental, Inc.
235 North Duke Street
Lancaster, PA 17602

RE: **D**ata **U**sability **S**ummary **R**eport for the BK Oceanside Plaza Site
Lancaster SDG No. OSP16

Dear Mr. Zunich:

Review has been completed for the analytical data packages generated by Eurofins Lancaster Laboratories that pertain to samples collected 03/10/15 at the BK Oceanside site. Two aqueous samples and an aqueous field duplicate were processed for Priority Pollutant volatiles and xylenes by USEPA SW846 method EPA8260B. Field and trip blanks were also processed.

The data packages that were submitted contain full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. The reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA Region 2 validation SOP HW-33, the USEPA CLP National Functional Guidelines for Organic Data Review, the specific laboratory methodologies, and professional judgment, as affects the usability of the data. The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlation
* Preparation/Calibration Blanks
* Laboratory Control Samples
* Instrumental Tunes
* Calibration Standards
* Instrument IDLs
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, most sample analyte values/reporting limits are usable as reported. The results for one analyte in the samples are not usable due to lack of stability of that compound in the preserved medium.

A copy of the laboratory case narrative is attached to this text, and should be reviewed in conjunction with this report. Also included in this report are validation qualifier definitions and qualified sample results forms.

The following text discusses quality issues of concern.

Chain-of-Custody

The preservation code was not entered onto the custody form. The laboratory pH log indicates proper preservation of the aqueous samples.

Volatiles by EPA 8260B

The results for 2-chloroethyl vinyl ether (CEVE) in the aqueous samples, field blank, and trip blank are not usable, as this compound is not stable in the acid-preserved medium.

Holding time requirements were met, and the surrogate and internal standard recoveries are within the required limits.

The calibration standards show acceptable response. Field, trip, and method blanks show no contamination.

No sample matrix spikes were performed. Historically, accuracy and precision of the matrix were good. The LCSs show compliant recoveries.

The field duplicate evaluation was performed on BKO-MW4, and shows good correlations.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Laboratory and Client Sample Identifications

eurofins | Lancaster Laboratories Environmental

Case Narrative/Conformance Summary

CLIENT: Reliance Environmental, Inc.
SDG: OSP16

GC/MS Volatiles

Fraction: Volatiles by GC/MS

Sample #	Client ID	Matrix Liquid	Matrix Solid	DF	Comments
7798166	BKO-MW4	X		1	
7798167	BKO-MW5	X		1	
7798168	BKO-DUP	X		1	Field Duplicate Sample
7798169	BKO-FB	X		1	Field Blank
7798170	BKO-TB	X		1	Trip Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

PREPARATION/EXTRACTION/DIGESTION:

No problems were encountered.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

MS/MSD

(Sample number(s): 7798166-7798170: Analysis: 11997)
2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.

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, laboratory spike data (LCS) are provided.

Qualified Sample Results Forms

Sample Description: BKO-MW4 Grab Groundwater
Oceanside Plaza

LL Sample # WW 7798166
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 11:00 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKO04 SDG#: OSP16-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		ug/l VAL. QUAL	ug/l	ug/l	
11997	Acrolein	107-02-8	N.D.	40	100	1
11997	Acrylonitrile	107-13-1	N.D.	4	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D. R	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.	2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 18:49	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-MW5 Grab Groundwater
Oceanside Plaza

LL Sample # WW 7798167
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 12:00 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKO05 SDG#: OSP16-02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		ug/l	VAL. QUAL	ug/l	ug/l	
11997	Acrolein	107-02-8	N.D.		40	100	1
11997	Acrylonitrile	107-13-1	N.D.		4	20	1
11997	Benzene	71-43-2	N.D.		0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.		0.5	1	1
11997	Bromoform	75-25-2	N.D.		0.5	4	1
11997	Bromomethane	74-83-9	N.D.		0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.		0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.		0.5	1	1
11997	Chloroethane	75-00-3	1		0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	R	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
11997	Chloroform	67-66-3	N.D.		0.5	1	1
11997	Chloromethane	74-87-3	N.D.		0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.		0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.		0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.		0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.		0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	18		0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.		0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.		0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.		2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1	1
11997	Tetrachloroethene	127-18-4	2		0.5	1	1
11997	Toluene	108-88-3	N.D.		0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1	1
11997	Trichloroethene	79-01-6	N.D.		0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.		0.5	1	1
11997	Vinyl Chloride	75-01-4	0.8	J	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.		0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 20:24	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 20:24	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-DUP Grab Groundwater
Oceanside Plaza

LL Sample # WW 7798168
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 11:05 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKOFD SDG#: OSP16-03FD

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		ug/l VAL. QUAL	ug/l	ug/l	
11997	Acrolein	107-02-8	N.D.	40	100	1
11997	Acrylonitrile	107-13-1	N.D.	4	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D. R	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.	2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 20:47	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 20:47	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-FB Grab Water
Oceanside Plaza

LL Sample # WW 7798169
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015 12:15 by CS

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKOFB SDG#: OSP16-04FB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		ug/l VAL. QUAL	ug/l	ug/l	
11997	Acrolein	107-02-8	N.D.	40	100	1
11997	Acrylonitrile	107-13-1	N.D.	4	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D. R	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.	2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

General Sample Comments

State of New York Certification No. 10670

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 21:09	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 21:09	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Sample Description: BKO-TB Water
Oceanside Plaza

LL Sample # WW 7798170
LL Group # 1544025
Account # 12577

Project Name: Oceanside Plaza

Collected: 03/10/2015

Submitted: 03/10/2015 16:40
Reported: 03/12/2015 17:55

Reliance Environmental, Inc.
235 N. Duke Street
Lancaster PA 17602

BKOTB SDG#: OSP16-05TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260C**		ug/l VAL. QUAL	ug/l	ug/l	
11997	Acrolein	107-02-8	N.D.	40	100	1
11997	Acrylonitrile	107-13-1	N.D.	4	20	1
11997	Benzene	71-43-2	N.D.	0.5	1	1
11997	Bromodichloromethane	75-27-4	N.D.	0.5	1	1
11997	Bromoform	75-25-2	N.D.	0.5	4	1
11997	Bromomethane	74-83-9	N.D.	0.5	1	1
11997	Carbon Tetrachloride	56-23-5	N.D.	0.5	1	1
11997	Chlorobenzene	108-90-7	N.D.	0.5	1	1
11997	Chloroethane	75-00-3	N.D.	0.5	1	1
11997	2-Chloroethyl Vinyl Ether	110-75-8	N.D. R	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
11997	Chloroform	67-66-3	N.D.	0.5	1	1
11997	Chloromethane	74-87-3	N.D.	0.5	1	1
11997	Dibromochloromethane	124-48-1	N.D.	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	N.D.	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	N.D.	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	N.D.	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	N.D.	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1	1
11997	Ethylbenzene	100-41-4	N.D.	0.5	1	1
11997	Methylene Chloride	75-09-2	N.D.	2	4	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1	1
11997	Tetrachloroethene	127-18-4	N.D.	0.5	1	1
11997	Toluene	108-88-3	N.D.	0.5	1	1
11997	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1	1
11997	Trichloroethene	79-01-6	N.D.	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	N.D.	0.5	1	1
11997	Vinyl Chloride	75-01-4	N.D.	0.5	1	1
11997	Xylene (Total)	1330-20-7	N.D.	0.5	1	1

General Sample Comments

State of New York Certification No. 10670

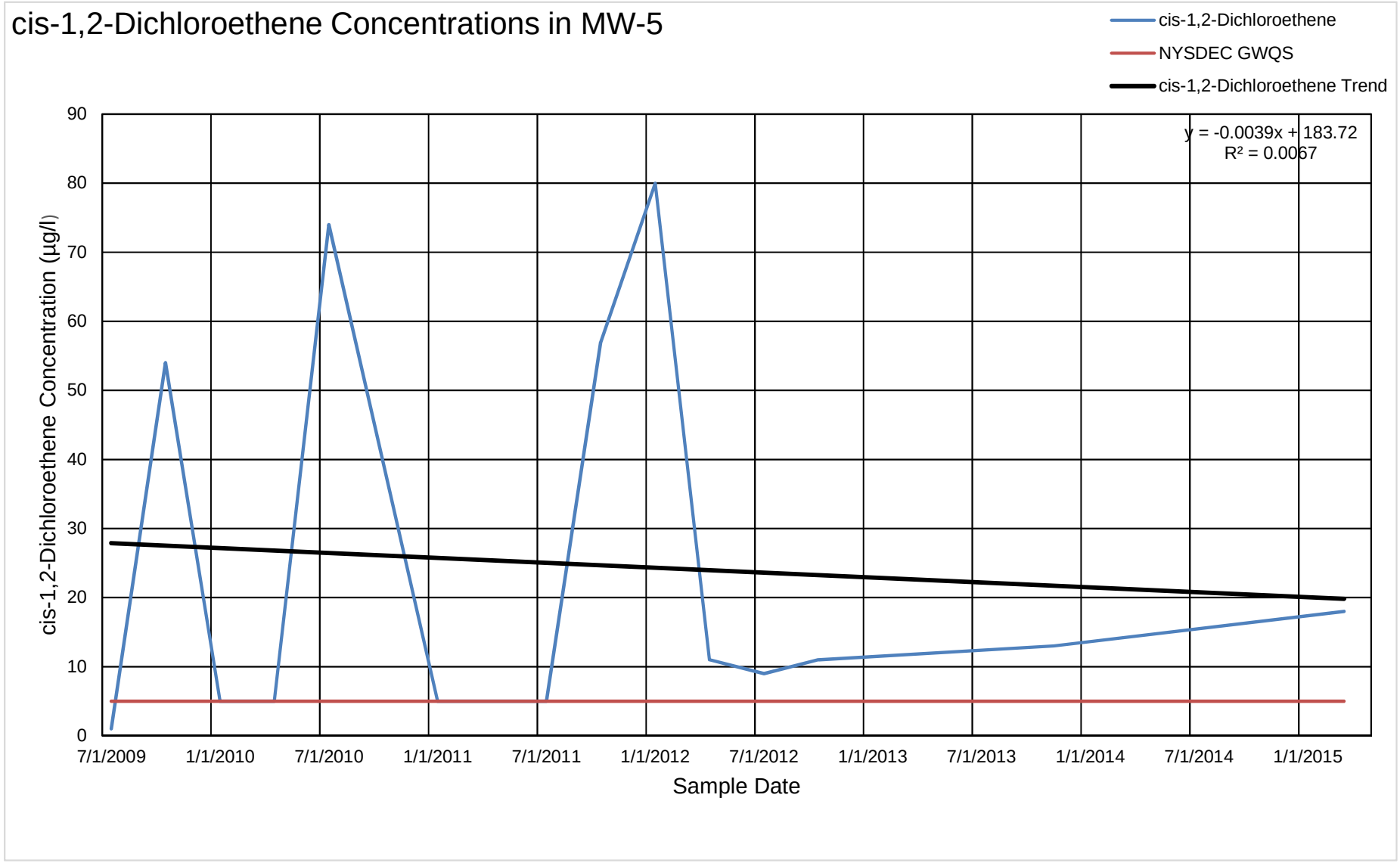
All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	VOCs- 5ml Water by 8260C	SW-846 8260C	1	L150702AA	03/11/2015 21:31	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	L150702AA	03/11/2015 21:31	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

APPENDIX G
GROUND WATER CONCENTRATION GRAPHS


cis-1,2-Dichloroethene Concentrations in MW-5
cis-1,2-Dichloroethene
NYSDEC GWQS
cis-1,2-Dichloroethene Trend
y = -0.0039x + 183.72
R² = 0.0067
cis-1,2-Dichloroethene Concentration (µg/l)
90
80
70
60
50
40
30
20
10
0
7/1/2009
1/1/2010
7/1/2010
1/1/2011
7/1/2011
1/1/2012
7/1/2012
1/1/2013
7/1/2013
1/1/2014
7/1/2014
1/1/2015
Sample Date

APPENDIX H
SITE INSPECTION AND NON-ROUTINE CHECKLISTS

SITE INSPECTION FORM

Date: March 10, 2015

Inspector: Casey Stevenson

Weather Conditions: Overcast, 35^0

Observations	Yes	No	Comments
1. Has the site usage changed since the previous inspection?		X	
2. Are any new structures present on-site?		X	
3. Has the usage of any retail spaces changed since the previous inspection?	X		Previous vacant spaces #5 & #6 are now occupied by Chipotle Mexican Grill
4. Have any structures been demolished since the previous inspection?		X	
5. Is there any evidence of recent excavation activities on-site? (i.e. disturbed earth, patched pavement, etc.)		X	
6. Are any modifications evident within the Environmental Easement designated area?		X	
7. Is there any contaminant related surface staining present?		X	
8. Are there any contaminant related odors present?	X		Dry cleaning machine room only.
9. Are the stormwater drains in need of repair?		X	
10. Are the ground water monitoring wells in need of repair?		X	
11. Is the sub-slab depressurization system operational?	X		
12. Are the sub-slab depressurization system checklists up-to-date?	X		
13. Is the soil vapor/indoor air quality monitoring sampling events up-to-date?	X		
14. Has there been any changes to the neighboring properties?		X	